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STATE POWER 2.0

Authoritarian Entrenchment and Political
Engagement Worldwide

Edited by

**MUZAMMIL M. HUSSAIN
AND PHILIP N. HOWARD**

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*This collection is dedicated to the international networks
of activists, hactivists, and enthusiasts leading the global
movement for Internet freedom.*

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Political Engagement Worldwide

Edited by

MUZAMMIL M. HUSSAIN
University of Michigan, USA

PHILIP N. HOWARD
University of Washington, USA

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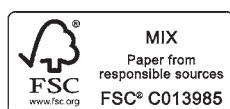
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Notes on Contributors

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4	4
5	5
6	6
7	7
8 Sheetal D. Agarwal is a doctoral candidate in the Department of Communication	8
9 at the University of Washington, Seattle. Her research interests include the	9
10 intersection of media, technology, and politics from a network perspective.	10
11 Currently, she is evaluating the role of values, resources, and power distribution in	11
12 technology development within networked organizations.	12
13	13
14 Fahed Al-Sumait is Assistant Professor and Department Chair of Communication	14
15 at the Gulf University for Science and Technology in Kuwait. He was recently a	15
16 post-doctoral research fellow at the National University of Singapore's Middle	16
17 East Institute, and a Fulbright-Hays fellow from 2010–2011.	17
18	18
19 Gregory Asmolov is a doctoral student in the Media and Communications	19
20 Department, at the London School of Economics and Political Science. He is a	20
21 co-founder of HelpMap, a crowdsourcing platform which was used to coordinate	21
22 assistance to victims of wildfires in Russia in 2010.	22
23	23
24 Jessica L. Beyer is a post-doctoral scholar in the Henry M. Jackson School for	24
25 International Studies at the University of Washington, Seattle.	25
26	26
27 Matthew Carrieri is a researcher at the Citizen Lab, Munk School of Global	27
28 Affairs, University of Toronto. He holds a BA in Middle East Studies from McGill	28
29 University and an MA in Near Eastern Studies from New York University.	29
30	30
31 Ronald J. Deibert is Professor of Political Science and Director of the Canada	31
32 Centre for Global Security Studies and the Citizen Lab at the Munk School of	32
33 Global Affairs, University of Toronto.	33
34	34
35 David M. Faris is Assistant Professor of Political Science and Director of	35
36 International Studies at Roosevelt University. He is author of <i>Dissent and</i>	36
37 <i>Revolution in a Digital Age: Social Media, Blogging and Activism in Egypt</i> (I.B.	37
38 Tauris).	38
39	39
40 Philip N. Howard is Professor of Communication, Information and International	40
41 Studies at the University of Washington, Professor of Public Policy at the Central	41
42 European University, and a fellow at the Center for Information Technology Policy	42
43 at Princeton University.	43
44	44

- 1 **Muzammil M. Hussain** is Assistant Professor in International and Comparative 1
 2 Media Studies at the University of Michigan’s Department of Communication 2
 3 Studies, Faculty Associate at the Institute for Social Research’s Center for 3
 4 Political Studies, and directs the project on Comparative Digital Politics and 4
 5 Democratization (www.comparative-DPD.org). 5
 6 6
- 7 **Mohammed Ibahrine** is Assistant Professor of Digital Advertising and Marketing 7
 8 Communication at the American University of Sharjah, UAE. He is a contributing 8
 9 member of the Open Society Global Project “Mapping Digital Media” and the 9
 10 ITU Global Cybersecurity Agenda (GCA). 10
 11 11
- 12 **David Karpf** is Assistant Professor of Media and Public Affairs at the George 12
 13 Washington University. His primary research focus concerns online politics 13
 14 in the United States, and is the author of *The MoveOn Effect: The Unexpected* 14
 15 *Transformation of American Political Advocacy* (Oxford University Press). 15
 16 16
- 17 **Saad Omar Khan** is a researcher at the Citizen Lab, Munk School of Global 17
 18 affairs, University of Toronto. He holds a master’s degree from the London 18
 19 School of Economics, and completed his undergraduate studies at the University 19
 20 of Toronto. 20
 21 21
- 22 **Steven Livingston** is Professor of Media and Public Affairs, and International 22
 23 Affairs at the George Washington University. 23
 24 24
- 25 **Katherine Maher** is Director of Strategy and Engagement for the international 25
 26 digital rights organization “Access,” and a fellow at the Truman National Security 26
 27 Project. 27
 28 28
- 29 **Catherine McKinley** began her career as a reporter with the BBC World Service 29
 30 in London before moving to Shanghai and then Hanoi as Dow Jones Newswires’ 30
 31 Bureau Chief for Vietnam. She later transitioned to media development 31
 32 consultancy, focusing on media skills, ethics, policy and legal reform and 32
 33 coordination between the international donors supporting media development 33
 34 in Vietnam. She also conducts research on the role of the media in combating 34
 35 corruption. 35
 36 36
- 37 **Babak Rahimi** is Associate Professor of Communication, Culture and Religion 37
 38 at the Program for the Study of Religion, Department of Literature, University of 38
 39 California, San Diego. 39
 40 40
- 41 **Imad Salamey** is Associate Professor of Political Science and International Affairs 41
 42 at the Lebanese American University in Beirut. He is President of the Center for 42
 43 Arab Research and Development (CARD), and Executive Board Member of the 43
 44 44

1	Institute for the Study of Conflict, Security and Development (CSDS) at Richmond	1
2	American International University in London.	2
3		3
4	Anya Schiffrin directs the Media and Communications Program at Columbia	4
5	University's School of International and Public Affairs. She was Bureau Chief	5
6	for Dow Jones Newswires in Amsterdam and Hanoi and wrote regularly for the	6
7	<i>Wall Street Journal</i> . Her book <i>Bad News: How America's Business Press Missed</i>	7
8	<i>the Story of the Century</i> (New Press) explores how the press covered the recent	8
9	financial crisis.	9
10		10
11	Helga Tawil-Souri is Associate Professor in the Department of Media, Culture,	11
12	and Communication at New York University. Her scholarship focuses on	12
13	spatiality, technology, and politics in the Middle East with a particular focus on	13
14	Israel-Palestine.	14
15		15
16	Jillian C. York is Director for International Freedom of Expression at the	16
17	Electronic Frontier Foundation and sits on the board of directors of Global Voices	17
18	Online.	18
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28 Malcolm Parks, and Gregor Walter-Drop. 28
29
30 Muzammil M. Hussain, University of Michigan, USA 30
31 Philip N. Howard, Princeton University, USA 31
32
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Introduction: State Power 2.0

Muzammil M. Hussain, Philip N. Howard, and Sheetal D. Agarwal

10 There have been many studies of the different ways regimes censor the use of social
11 media by their citizens, but shutting off digital networks altogether is something
12 that rarely happens. However, it happens at the most politically sensitive times and
13 has widespread—if not global—consequences for political, economic and cultural
14 life. For democratic activists and international observers alike, 2011 was marked
15 with hope and optimism. Digitally-enabled youth had successfully sparked
16 nonviolent protests across North Africa and the Middle East, the likes of which
17 had not been seen in these countries for many decades. In what is now referred to
18 as the “Arab Spring” by hopeful observers, Tunisia and Egypt had successfully
19 replaced decades-old dictatorships with the hopeful beginnings of writing new
20 constitutions and building new democratic institutions. But fast forwarding to the
21 end of 2013, the tasks of re-building new democracies from the ground up remain
22 long-term processes still measured across years and decades, including ongoing
23 moments of progress and setbacks.¹

24 Since the removal of Ben Ali and Hosni Mubarak in 2011, Egypt had faced
25 not some but several periods of social unrest and political uncertainty, most
26 recently the July 2013 military coup and deposition of the Muslim Brotherhood-
27 backed President Mohamed Morsi which has left the country in another sustained
28 period of protest and turmoil. Tunisia’s new government also moved snail-paced
29 through much of 2012 in its new constitution writing and adoption process, but
30 Tunisian civil society ready themselves for the country’s second election after the
31 “Jasmine Revolution” of 2011, schedule December 2013. Furthermore, in contrast
32 to the relative high diffusion rates and vibrant online civil societies present in
33 Egypt and Tunisia, the lack of Internet access, and regimes’ heavy management
34 of existing Internet infrastructure, particularly in Libya and Syria, have also
35 vividly illuminated the ways in which unfriendly regimes use these same tools
36 and infrastructures towards repressive ends. Syria’s explicit and targeted violence
37 against its citizens has garnered the regime routine international condemnations.
38 But near the end of 2012, observers also took note of the regime’s calculated
39 methods of controlling its Internet infrastructure. While not as robust as Saudi

41 _____
42 1 A longer version of this article was originally published as Howard, P.N., Agarwal,
43 S.D., and Hussain, M.M. 2011. “When Do States Disconnect Digital Networks? Regime
44 Responses to the Political Uses of Social Media.” *The Communication Review*, 14(3):
216–232.

1 Arabia or China's well-financed Internet censorship platforms, nor as crude as 1
2 Egypt's and Myanmar's national-level shutdowns in years before, Syria managed 2
3 several times in 2011 and 2012 to do both. By acquiring sophisticated technologies 3
4 from Western countries to censor and monitor political content, and also turning- 4
5 off vast portions of its national Internet and physically targeting Internet activists, 5
6 the regime is both learning and advancing its capacity to turn activists' digital 6
7 tools against them. What might these two years following the Arab Spring tell 7
8 us about how state powers and civil society actors find digital technologies to be 8
9 politically consequential? How have Internet technologies been built and adopted 9
10 by nondemocratic countries over the past two decades? Where do dictators acquire 10
11 new technologies and skills to control digital infrastructure? And when do states 11
12 disconnect their digital networks, and why? 12

13 Democratization movements have existed long before technologies such 13
14 as mobile phones and the Internet came to nondemocratic countries. But with 14
15 these technologies, people sharing an interest in democracy have built extensive 15
16 networks, created social capital, and organized political action. With these tools, 16
17 virtual networks have materialized in the streets. As a desperate measure, many 17
18 states have tried to choke off information flows between activists, and between 18
19 activists and the rest of the world. Mubarak tried to disconnect his citizens from 19
20 the global information infrastructure in the last week of January 2011. It was a 20
21 desperate maneuver with mixed impact. A small group of tech-savvy students 21
22 and civil society leaders had organized satellite phones and dialup connections 22
23 to Israel and Europe, so they were able to keep up strong links to the rest of the 23
24 world. It appears that some of the telecommunications engineers acted slowly on 24
25 the order to choke off Internet access. The first large Internet service provider 25
26 was asked to shut down on Friday, January 28, but engineers didn't get to it until 26
27 Saturday. Other providers responded quickly, but returned to normal service on 27
28 Monday. The amount of bandwidth going into Egypt certainly dropped off for four 28
29 days, but it was not the information blackout Mubarak had asked for. Taking down 29
30 the nation's information infrastructure also crippled government agencies. The 30
31 people most affected were middle-class Egyptians, who were cut off from Internet 31
32 service at home. Some people certainly stayed there, isolated and uncertain about 32
33 the status of their friends and family. But in the absence of information about the 33
34 crisis, others took to the streets, eager to find out what was going on. 34

35 But this was not the first wave of incidents in which governments disconnected 35
36 their citizens from global information flows. On Friday, June 12, 2009, Iran voted. 36
37 When voters realized the election had been rigged, many took to the streets to 37
38 protest. Social media such as Twitter, Facebook, and SMS messaging was actively 38
39 used to coordinate the movements of protesters and to get images and news out 39
40 to the international community. Compared to protests that occurred the last time 40
41 elections were stolen, the social movement lasted longer, it drew in millions more 41
42 participants, and there were more witnesses to the brutal regime crackdown. 42
43 Social media had a clear role in extending the life of civil disobedience. While 43
44 the theocratic regime did not fall, there were some important outcomes: the ruling 44

1 mullahs were split in opinion about the severity of the crackdown. As part of the 1
2 response, the regime attempted to disable national mobile phone networks. It 2
3 disconnected the national Internet information infrastructure for several hours, and 3
4 installed a deep packet inspection system that significantly slowed traffic. 4

5 For civil society actors around the world, digital media and online social 5
6 networking applications have changed the way in which dissent is organized 6
7 (Bimber 2005; Howard 2010; Still 2005). Social movement leaders from 7
8 around the world use online applications and digital content systems to organize 8
9 collective action, activate local protest networks, network with international social 9
10 movements, and share their political perspective with global media systems (Byrne 10
11 2007; De Kloet 2002; Shumate 2006). In the past, authoritarian regimes easily 11
12 controlled broadcast media in times of political crisis; by destroying newsprint 12
13 supplies, seizing radio and television stations, and blocking phone calls. It is 13
14 certainly more difficult to control digital media on a regular basis, but there have 14
15 been occasions in which states have disabled a range of marginal to significant 15
16 portions of their national information infrastructure. What situational tendencies 16
17 cause state-powers to exercise specific acts of blocking Internet access and 17
18 disabling digital networks? When do regimes resort to the more extreme measures 18
19 of shutting off Internet access? And when they do not have the capacity to control 19
20 digital networks, how do states respond offline to dissent and criticism? What is 20
21 the impact of doing so, and who is most affected? 21

22 It is difficult to investigate patterns of state censorship. Many reports of 22
23 censorship are essentially self-reports by technology users who assume there is 23
24 a political reason behind their inability to connect to a digital network, whether 24
25 they are mobile phone networks, gaming networks, or the Internet. Sometimes 25
26 the state admits to acts of censorship, which makes it easier to learn why the 26
27 government interfered and to what effect. Other times the state acts so clumsily or 27
28 breaks the communication link between such large networks that many users can 28
29 report being effected. While several researchers study the broad social impact of 29
30 censorship, there are only a few who are able to provide evidence about both the 30
31 shared perception that the state is surveilling its public, and specific incidents of 31
32 censorship that involve disconnections in digital networks (Deibert and Rohozinski 32
33 2008; Deibert et al. 2010). Drawing from multiple sources, however, it is possible 33
34 to do a comparative analysis of the myriad incidents in which government officials 34
35 decide to censor their online publics. By collecting as many *known* incidents of 35
36 state intervention in information networks, we are able to map out the contours 36
37 of crisis situations, political risks, and civic innovations to understand the new 37
38 intersections between state power and civil society. 38

39 Not all incidents involve authoritarian regimes, and not all acts of state 39
40 censorship are easy to describe and classify. One of the first incidents occurred on 40
41 December 29, 1995, when German prosecutors demanded that an Internet Service 41
42 Provider (ISP) block four million worldwide subscribers from accessing sexually 42
43 explicit content on portions of the Internet. This was the first instance of such 43
44 drastic measures of state censorship, legislation, and regulation of information 44

1 received online. Motivation for the shutdown came from a police investigation into 1
2 child pornography in Bavaria, Germany. Though German officials were targeting 2
3 220,000 German subscribers when they asked for the block, CompuServe had 3
4 no mechanism in place to limit just German users at the time, thus, they shut 4
5 down service to all subscribers. In all, CompuServe restricted subscriber access to 5
6 200 newsgroups, specifically related to the site Usenet. Reaction to the censorship 6
7 elicited varied responses from community and civic groups. The National Center 7
8 for Missing and Exploited Children, for example, hailed it as a form of “electronic 8
9 citizenship.” Meanwhile, groups such as the Electronic Freedom Foundation 9
10 indicated concern and resistance to the notion of state control over individual 10
11 rights online. 11

12 This early incident of state intervention with Internet connectivity brought forth 12
13 questions that we still struggle to answer today: Who controls Internet content? 13
14 What are the legitimate reasons for state interference with digital networks? 14
15 Over the last 15 years, states are increasingly willing to interfere with the links 15
16 between nodes of digital infrastructure by shutting out particular users or shutting 16
17 off particular servers, by breaking the links to sub-networks of digital media, and 17
18 sometimes even by disconnecting national information infrastructure from global 18
19 networks. 19

20 Recently, Research in Motion (RIM) was involved in a complex issue 20
21 involving several states’ requests to provide better access to the server nodes in 21
22 Blackberry service networks. In the spring of 2010, a prominent political figure in 22
23 the United Arab Emirates (UAE) used his Blackberry’s mobile camera to record 23
24 himself torturing a Bangladeshi migrant worker. The video was taken and posted 24
25 online, causing outrage from human rights groups and embarrassing the country’s 25
26 ruling elites. The UAE’s response has been to demand that RIM provide dedicated 26
27 servers within their territory so that the regime could monitor traffic and disable 27
28 services as needed. Eventually both Saudi Arabia and the United Arab Emirates 28
29 threatened to ban the use of the popular Blackberry smart phone. The UAE 29
30 threatened to block access to text messages, email, and web browsers if RIM did 30
31 not allow government access for security investigations. The threat of censorship 31
32 was still in place as of October 2010, potentially affecting over half a million users 32
33 of the most popular smart phone in the UAE. 33

34 In 2010, India followed suit, also citing national security as the impetus for 34
35 demanding RIM stop encrypting data sent through their phones. This incident 35
36 illustrates a growing tension between governments and mobile Internet users’ 36
37 privacy today. Increasingly, over the past decade private companies and ISP 37
38 providers like RIM are caught in between meeting the security and information 38
39 needs of their citizen users, and obeying imposed government regulations by nation 39
40 states. Most recently, Vodafone was under pressure from both Mubarak’s regime 40
41 to shut off Internet access, and civil society activists to keep the communication 41
42 channels open. Concession by the ISP providers is more valuable to these states 42
43 than a block however, as it will severely limit businesses run by citizens in these 43
44 countries as well as those of visitors and tourists. After Vodafone complied with 44

1 Mubarak's regime to turn off Internet access, it cost the national economy an 1
2 estimated \$90 million and the country's reputation as a safe and stable place for 2
3 technology firms to invest. 3

4 Since 1995—the year the National Science Foundation effectively privatized 4
5 the Internet—there have been well over 500+ occasions in which governments 5
6 intervened in the connections of a digital network. Of these, about half were enacted 6
7 by authoritarian regimes. The three countries with the highest number of incidents, 7
8 China, Tunisia, and Turkey, represent both authoritarian and democratic regimes. 8
9 In times of political uncertainty, rigged elections, or military incursions, ruling 9
10 elites are sometimes willing to interfere with information infrastructure as a way of 10
11 managing crises. In many of these cases, the targets (victims) are active domestic 11
12 civic society movements with international linkages. When these movements 12
13 organize, authoritarian governments can react harshly and invasively by blocking 13
14 access to the global Internet. Yet at the same time, these authoritarian regimes find 14
15 that they cannot block Internet access for extended periods, both because doing 15
16 so has an impact on the national economy and because of international political 16
17 pressure. Shutting off the Internet for a country's network also has an impact on the 17
18 capacity of the state to respond to the crisis—for example, Egyptian authorities did 18
19 not expect that turning off Internet and SMS networks would draw out protesters 19
20 in larger numbers to the street. Therefore, the decision tree for choking off Internet 20
21 access also involves some willingness to incapacitate portions of the government's 21
22 security apparatus. Increasingly, civil society groups find methods to circumvent 22
23 the blocked social media. A significant corpus of literature has grown around the 23
24 use of newer digital media by social movements against authoritarian regimes 24
25 (Garrett 2006; Marmura 2008; McLaughlin 2003). While there is a healthy 25
26 ongoing conversation by scholars on the issue of civil societies' uses of digital 26
27 media for social and political mobilization, our investigation illuminates the 27
28 impetuses, tactics, and impacts of state responses to online engagement. 28

29 In this collection of cases from around the world, our goal is to encourage the 29
30 comparative analysis of occasions in which regimes have disconnected significant 30
31 portions of their national digital infrastructure, including mobile phones and 31
32 Internet access. Our goal is to define the range of situations in which states have 32
33 actually disrupted large sections of their own national information infrastructure, 33
34 as well as to uncover their long-term strategizing in managing new information 34
35 infrastructure. Through grounded comparisons of incidents, we demonstrate 35
36 the importance of understanding how information technologies have a role in 36
37 political responses and counter-insurgency tactics of many kinds of regimes. 37
38 Such comparative study will help explicate the meaning of contemporary state 38
39 power in media systems of both advanced and developing countries. While some 39
40 have argued that the state no longer has strong control of media production and 40
41 consumption systems, there are a range of occasions in which state power over 41
42 digital networks is noticeably strong. 42

43 Drawing on a range of sources, we built a detailed event catalog for major 43
44 disruptions in digital networks of nations between 1995 and 2010. We collected 44

1 information about incidents as reported in major news media, specialized news 1
2 sources such as national security and information security blogs, and other online 2
3 forums for discussing such topics. These sources include Google News, Lexus 3
4 Nexus, Attrition.org, GlobalVoices.org, among others. A case is defined as an 4
5 occasion where a government intervened in a digital network by breaking or turning 5
6 off connections between national sub-networks and global information networks. 6
7 Sometimes this meant blocking ports or access to a particular sub-network of 7
8 digital media, such as content at the domains Facebook.com or YouTube.com. In 8
9 times of significant political or military crisis, such as war or contested elections, 9
10 the governments might disconnect SMS messaging services or block the entire 10
11 country's access to global networks. Additionally, regimes may target individual 11
12 actors in networks. But these incidents are more than general government threats 12
13 of surveillance or intimidation (which are also forms of censorship). These are 13
14 distinct incidents where government officials made the specific decision to disable 14
15 the links or nodes in the portions of the information networks they can control. 15

16 Since the literature on digital censorship often makes a distinction between 16
17 democracies, emerging democracies and authoritarian regimes, we rely on the 17
18 Polity IV data about regime type (Marshall and Jaggers 2010). In addition, since 18
19 several of the governments appearing in the event log are too fragile to sensibly 19
20 be given one of these three categories, we rely on Polity IV data for a category 20
21 of fragile regimes. As per Polity IV coding, if a state was recovering from civil 21
22 war or foreign military invasion, experiencing a complex humanitarian disaster, 22
23 or had effectively failed for other reasons, we code this state as fragile. A state's 23
24 regime type was set according to the Polity IV score for that state in the year of the 24
25 reported incident. Several countries had several incidents, and it is possible that 25
26 regime types changed over time. 26

27 All in all, there have been at least 566 unique incidents involving 101 countries: 27
28 39 percent of the incidents occurred in democracies, 7 percent occurred in emerging 28
29 democracies, 51 percent occurred in authoritarian regimes, and 2 percent occurred 29
30 in fragile states. Each incident was coded for the name of the country in which a 30
31 state agency intervened in digital networks, the year of the incident, the type of 31
32 regime, and a precise date if available. We made general notes on the narrative of 32
33 each incident, and mapped on the Polity IV score for the country in the year of 33
34 the incident. Then we developed three standardized typologies for the kinds of 34
35 incidents being reported. First, we developed a category that iteratively helped 35
36 define the case, and a typology of actions that states take against social media. 36
37 Second, we developed a category for why they took that action, sometimes relying 37
38 on third-party reports if the state simply denied any interference. Finally, we 38
39 developed a category for the impact of the interference. 39

40 While we might expect authoritarian regimes to more aggressively interfere 40
41 with their digital infrastructure than other types of regimes, Figure I.1 reveals 41
42 that democracies also substantively disconnect their communication networks. In 42
43 recent years, there have been at least 80 incidents a year. Only a fraction of these 43
44 involve emerging democracies. Over time, it appears that all types of regimes have 44

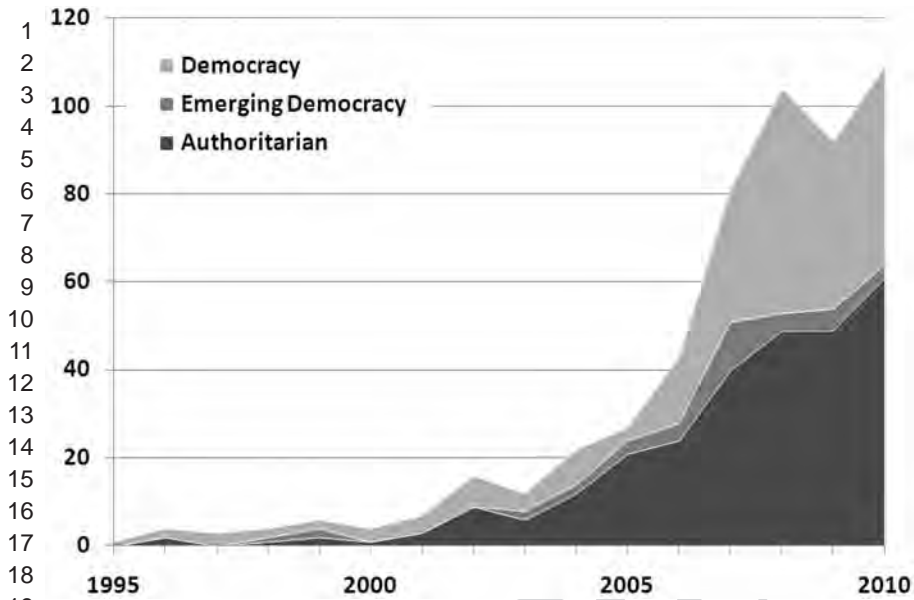


Figure I.1 Number of major incidents of state intervention in digital networks, by regime type, 1995–2011

become more and more willing to interfere with information access, particularly since 2006—the same year *Time Magazine* awarded “You” as the person of the year, recognizing the worldwide diffusion of participatory social media tools. As social media have diffused, they have become a fundamental infrastructure for collective action. Even though democracies appear just as aggressive as authoritarian regimes in disconnecting digital networks, are there differences in the ways in which such states intervene? What are the different reasons for such drastic interventions?

Decision Paths and Opportunity Structures

Civil society is often defined as the self-generating and self-supporting community of people who share a normative order and volunteer to organize political, economic or cultural activities that are independent from the state (Diamond 1994). Civil society groups are a crucial part of all elections because they represent diverse perspectives and promote those perspectives through communications media. Moreover, a key tenet of the shared normative order is that no one group can claim to represent the whole of society. Democracy is best served by a multitude of groups that contribute in different ways to conceiving public policy options and national development goals. Some governments work hard to censor digital

1 media, but even in such countries the Internet is difficult to control. Governments 1
 2 might own nodes in the network, but rarely can they completely choke off network 2
 3 connections. This means that tools like YouTube, Twitter, Facebook, and email are 3
 4 useful, and at sensitive times, critical, organizational tools. In some of the toughest 4
 5 authoritarian regimes, these tools are crucial because face-to-face conversations 5
 6 about political life are so problematic. For civil society groups—these tools are 6
 7 often content distribution systems largely independent of the state. 7

8 The Internet has become an invaluable logistical tool for organization and 8
 9 communication for civil society groups. It is an information infrastructure mostly 9
 10 independent of the state, and since civil society groups are by definition social 10
 11 organizations independent of the state, the Internet has become an important 11
 12 incubator for social movements (radical and secular) and civic action. The Internet 12
 13 has altered the dynamics of political communication systems in many countries, 13
 14 such that the Internet itself is the site of political contestation between the state 14
 15 and civil society. 15

16 16

17 17

18 **How do States Interfere with Digital Networks?** 18

19 19

20 States interfere with digital networks using many tactics, with various levels of 20
 21 severity: online, by shutting down political websites or portals; offline, by arresting 21
 22 journalists, bloggers, activists, and citizens; by proxy, through controlling Internet 22
 23 service providers, forcing companies to shut down specific websites or denying 23
 24 access to disagreeable content; and, in the most extreme cases, shutting down 24
 25 access to entire online and mobile networks. Surprisingly, we find that while 25
 26 authoritarian regimes practice controlling full-networks, sub-networks, and nodes 26
 27 more than democracies, democracies are the most likely to target civil society 27
 28 actors by proxy by manipulating Internet service providers. Table I.1 presents 28
 29 cases where governments exercised control by targeting full-networks (shutting 29
 30 down the Internet), sub-networks (blocking websites), network-nodes (targeting 30
 31 individuals), and by proxy (pressuring Internet service providers). 31

32 The most extreme form of network control is when states shut down access to 32
 33 the Internet. Authoritarian regimes did so significantly more than fragile states and 33
 34 emerging democracies, and also twice as more as democracies. A clear illustration 34
 35 of this was when China shut down Internet services in the Xinjiang region after 35
 36 ethnic riots erupted in 2006. The riots resulted in 140 fatalities, and the state has 36
 37 since blocked access to Twitter and other social networking sites to control the 37
 38 conflict and dissent. More recently, Pakistan severely restricted the Internet after a 38
 39 Seattle-based cartoonist organized an “Everybody Draw Mohammed Day.” After 39
 40 the event attracted 43,000 fans from around the world, the Pakistan government 40
 41 went into “banning mode” because the event invited members to draw and post 41
 42 pictures of the revered prophet. Similarly, emerging democracies, like Haiti and 42
 43 Thailand, have engaged in shutting down main Internet service providers, or entire 43
 44 online networks like YouTube, respectively. Thousands of Haitians lost Internet 44

**Table I.1 How do states disconnect their digital networks?
Incidents by regime type**

	Democracy	Emerging democracy	Authoritarian	Fragile	Total
Complete network shut down (Full networks)	13	3	30	3	49
Specific site-oriented shut downs (Sub-networks)	140	25	210	8	383
Individual users (Nodes)	82	16	125	3	226
By proxy through ISP	47	4	41	4	96

Note: Total N = 754. Incident types are not mutually exclusive, as some incidents involved combinations of state tactics against social media use.

access in 1999 when the government attempted to allegedly silence dissent and consolidate power under the guise of punishing Alpha Network Communications for selling telephone cards and providing international telephone services. Bangladesh blocked YouTube and most other file sharing services after recordings of a meeting between the Prime Minister and army senior officers were leaked onto YouTube. Thailand, also an emerging democracy with a record of political online censorship, maintains a block on entire Internet services like YouTube. Bangladesh, a democracy, also blocked entire networks when a political crisis over the murder of a prominent lawyer raged on the WordPress network. These examples suggest that although complete network shut-downs are least common, they tend to materialize when states face national controversies and moments of severe social and political unrest, often (but by not exclusively) in authoritarian regimes.

Unlike the most extreme measure of shutting down entire online networks, states are most likely to target individual websites (online) or their producers and users (offline). Democracies are much more likely to engage in online content censorship than other tactics, though they also frequently target civil society members offline. The earliest case of a democracy shutting down online sub-networks was in 1995 when German authorities removed access to over 200 Internet newsgroups deemed indecent and offensive. In 1996, German authorities again removed access to banned material, such as a Netherland's online magazine. More recently, advanced democracies like Australia, as of July 2010, was considering a mandatory Internet filter to censor a list of URLs associated with child sexual abuse, bestiality, sexual violence, crime, violence, drug use, and content advocating violence and extremism.

While socially questionable material and content promoting criminal activities are commonly cited reasons for blocking content in democratic states, some states have also used this as a tactic for foreign policy disputes. In August 2010, South Korea engaged in an online dispute with North Korea over social media when

1 South Korean citizens were threatened with arrests for accessing North Korea's 1
2 Twitter feed. However, despite attempting to reroute requests from North Korea's 2
3 Twitter page to a warning page, over 9,000 followers had accumulated. 3
4 In instances like this, when unable to block online content effectively, states 4
5 are forced to go directly towards censoring individuals. Authoritarian states do 5
6 this most often, and in many cases, with more severity. Bloggers, journalists, and 6
7 social activists are the most common individual targets of offline censorship, often 7
8 facing arrests and fines. For example, an Egyptian blogger was sentenced to four 8
9 years in prison for insulting the Egyptian President Hosni Mubarak. Following 9
10 Thailand's coup d'état in 2006, two cyber dissidents were arrested for comments 10
11 made about the monarchy in online discussion boards, and face a minimum 11
12 sentence of 15 years in prison. Another example of online activities leading to 12
13 offline government reactions is Cuba's arrests of two online journalists working 13
14 for CubaNet in 2005 and 2007. These journalists were arrested for engaging in 14
15 "subversive propaganda" and "precriminal social danger." With authoritarian 15
16 regimes, it is generally the case that criticisms of political elites are often dealt 16
17 with the imposition of fines, searches, seizure of equipment, and imprisonment. 17
18 While democracies also engage in a heavy amount of censoring individual 18
19 users, paralleling the conditions of authoritarian regimes, they also have a unique 19
20 tendency to target individuals or agencies providing the infrastructure (a tactic that 20
21 has increasingly been adopted by authoritarian regimes since the Arab Spring). In 21
22 fact, democracies have a slightly higher rate of blocking content and controlling 22
23 civil society actors through indirect measures, such as targeting Internet service 23
24 providers. Turkey and Italy, both democracies, have legally pursued charges 24
25 against both Internet service providers and their users. In March 2010, an Italian 25
26 court convicted three Google executives for not removing violent video content 26
27 that appeared on their online services. In August 2009, Malawi approved legal 27
28 measures to pressure Internet service providers in monitoring social networking 28
29 sites like Twitter and Facebook. Hungary and Belgium have also shared experiences 29
30 where Internet service providers have received pressures to approve "notices of 30
31 takedown" procedures from their governments. Surprisingly, while authoritarian 31
32 regimes frequently fine and imprison civil society actors directly for criticizing 32
33 the regime and its elites, democracies have more examples of regimes using legal 33
34 frameworks and round-about institutionalized measures for targeting both Internet 34
35 service providers and their users. As several of our contributors also document, 35
36 successful authoritarian regimes today must not only punish civil society actors 36
37 directly for using digital media in political ways, they must also create new legal, 37
38 economic, and political relationships with infrastructure providers to ensure their 38
39 control and survival. 39
40 40
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1 Why do States Interfere with Digital Networks? 1

2

3 Looking across the range of known incidents, we have identified 12 categories 3
 4 representing two broader themes—protecting political authority and preserving the 4
 5 public good. The first broad theme of protecting leadership and state institutions 5
 6 included several reasons for state interference in public access to social media. 6
 7 These include: protecting political leaders and state institutions; election crisis; 7
 8 eliminating propaganda; mitigating dissidence; and national security. *National* 8
 9 *security* was the most commonly cited reason under this theme, where officials 9
 10 cited “terrorism threats” and preventing the spread of “state secrets” as reasons to 10
 11 intervene with Internet access. Information that undermined protection of authority 11
 12 figures was another sub-category oft attributed for intervention. In 2007 Kazakh 12
 13 officials shut down opposition web sites for three days, because of published 13
 14 transcripts and recordings related to a public battle between authoritarian President 14
 15 Nazarbayev and his estranged son-in-law. The *eliminating propaganda* sub- 15
 16 category included incidents where intervention occurred because of the spread of 16
 17 information aimed at serving an agenda undermining the standing regime. China 17
 18 in 2003 sentenced an individual to four years in prison for email discussions and 18
 19 postings in online forums and chat rooms related to democracy. The *mitigating* 19
 20 *dissidence* sub-category captures those cases in which intervention was attributed 20
 21 to an attempt to reduce dissident civic action, such as the US arresting two 21
 22 individuals who tweeted about police locations during G20 protests in Pittsburgh, 22
 23 Pennsylvania in 2009. Incidents included under the *election crisis* sub-category 23
 24 include cases in which a regime acted in response to events surrounding elections. 24
 25 This sub-category included times when the regime intervened prior to, during, 25
 26 or after elections. For example, in the aftermath of the highly contested Iranian 26
 27 elections in 2009, the regime first slowed and then shut down access to the Twitter 27
 28 network, which was heavily used by protestors to coordinate and share information 28
 29 about the contested elections. 29

30 The second over-arching theme for why states disabled social media was by 30
 31 claiming an urgent need to preserve the public good. Sub-categories of this theme 31
 32 include: preserving cultural and religious morals; preserving racial harmony; 32
 33 protecting children; cultural preservation; protecting individuals’ privacy; and 33
 34 dissuading criminal activity. *Preserving cultural and religious morals* was the 34
 35 most cited reason for intervention across all themes and categories. This sub- 35
 36 category was used in incidents when officials attributed intervention to preventing 36
 37 the spread of blasphemous or offensive information that challenged the religious 37
 38 and cultural morality of the state. An overwhelming number of these cases 38
 39 involved targeting websites and individuals who accessed or distributed anti- 39
 40 Islamic or pornographic material (not including child pornography, which was 40
 41 captured in a separate category). An illustration of such an incident was from 41
 42 2009, when Pakistan blocked access to 450 sites including Facebook and YouTube 42
 43 after an international event to depiction the prophet Mohammed was organized on 43
 44 Facebook. 44

1 Table I.2 Why do states disconnect their digital networks? 1						
2 Reasons by regime type 2						
3						
4						
	Democracy	Emerging democracy	Authoritarian	Fragile	Total	
6 Protecting authority 6						
8	Protecting political leaders and state institutions	30	7	23	1	61
9	Election crisis	4	3	9	0	16
10	Eliminating propaganda	5	1	24	0	30
11	Mitigating dissidence	8	5	11	3	27
12	National security	29	6	34	0	69
14 Preserving the public good 14						
15	Preserving cultural and religious morals	27	4	37	6	74
17	Preserving racial harmony	9	0	1	0	10
18	Protecting children	30	0	2	0	32
19	Cultural preservation	2	0	19	0	21
20	Protecting individual's privacy	3	0	2	0	5
21	Dissuading criminal activity	29	3	18	1	51
22	Alleged system failure, neither denied nor admitted	4	4	9	0	17
23	Censorship denied by state	3	1	11	0	15
24	Unknown, other	40	4	90	4	138
26	Total	223	38	290	15	566

27 *Note:* Total N = 566. Reasons for intervention are mutually exclusive. 27

30 *Cultural preservation*, included incidents in which interventions were 30
 31 attributed to the need to expel outside influence or threats to national interests 31
 32 were cited (but not related to terrorism or national security threats, which were 32
 33 captured by a separate category). In December 2006, Iran shut down access to 33
 34 websites such as YouTube and Amazon in order to “purge the country of Western 34
 35 influence.” Though we encountered only a few cases that cited *preservation of* 35
 36 *racial harmony* as the impetus for action, these incidents are useful to separate 36
 37 from other categories as they focus interventions justified for protecting the public 37
 38 specifically from ethnic or racially motivated violence. For example, in 2008 38
 39 Germany convicted a blogger for inciting hatred by denying the Holocaust. 39

40 Dissuading the public from *criminal activity* is another reason often cited by 40
 41 officials. Incidents under this category include arresting individuals for copyright 41
 42 infringement, distributing illegal information, and participating in activities 42
 43 deemed illegal by the state, such as online gambling. Cases in this sub-category 43
 44 included the arrests or criminal prosecutions of individuals whom authorities 44

1 claimed were breaking the law. An example of such a case was when Polish 1
 2 authorities arrested the creators of a peer-to-peer portal and shut down the site in 2
 3 2009, citing copyright infringement as the reasoning. 3

4 *Protecting children* as a sub-category included incidents where officials 4
 5 explicitly sited threats to children and minors as reasons for intervention. While 5
 6 many of these incidents related to pornographic material, only those cases that 6
 7 specifically included reference to child pornography were included under this sub- 7
 8 category. States often adopted Internet laws and policies to protect children; an 8
 9 illustration includes Brazil's adoption of policies that require ISPs to provide lists 9
 10 of the websites they host to a child protection agency and put a button on their 10
 11 website that says "Pedophilia is a crime, denounce it." 11

12 Lastly, only four, yet thematically distinct, cases represented the final sub- 12
 13 category under this theme: *protecting individuals' privacy*. This sub-category 13
 14 included incidences in which authorities determined that an individual's privacy 14
 15 was jeopardized by content posted on the Internet. Perhaps the most clear example 15
 16 of such a case was when a Tunisian official jailed and fined an individual for 16
 17 "causing harm by means of telecommunication networks" because he did not 17
 18 obtain an official permit or consent of the individuals he filmed for an online video. 18

19 There are certain types of cases that are difficult to categorize. These include 19
 20 reports of some incidents where there was not enough information to assert the 20
 21 reasons for the intervention. This includes cases in which officials simply did not 21
 22 cite a reason for intervention, or when our primary texts did not provide enough 22
 23 insight into why the intervention took place. These incidents categorized as 23
 24 *unknown/other*. Additionally, there were cases in which officials simply denied 24
 25 any responsibility for censorship or claimed it was a technical issue, thus we are 25
 26 unable to attribute reasons for the intervention. These cases are captured in the sub- 26
 27 categories, *censorship denied* and *alleged system failure*. While it is not surprising 27
 28 that authoritarian regimes invoke intervention policies to protect state authorities 28
 29 and institutions, Table I.2 reveals that democratic regimes exercise intervention 29
 30 efforts at nearly the same level for these same reasons, which severely limits civil 30
 31 society groups from participating in the foundational democratic practices of the 31
 32 regime. 32

33 The advantage of a comparative approach is that it allows us to avoid and move 33
 34 beyond organizational and technological determinism (Howard 2002). It does so 34
 35 by allowing us to build grounded typologies of real government responses to the 35
 36 development of new media, and particularly social media. The lasting impact of 36
 37 a temporary disconnection in Internet service may actually be a strengthening of 37
 38 weak ties between global and local civil society networks. When civil society 38
 39 disappears from the grid, it is noticed. What lasts are the ties between a nation's 39
 40 civic groups, and between international non-governmental organizations and like- 40
 41 minded, in-country organizations. Certainly not all of these virtual communities 41
 42 are about elections, but their existence is a political phenomenon particularly 42
 43 in countries where state and social elites have worked hard to police offline 43
 44 communities. Thus, even the bulletin boards and chat rooms dedicated to shopping 44

1 for brand name watches are sites that practice free speech and where the defense 1
 2 of free speech can become a topic of conversation. The Internet allows oppositions 2
 3 movements that are based outside of a country to reach in and become part of 3
 4 the system of political communication within even the strictest authoritarian 4
 5 regimes. Today, banning political parties could simply mean that formal political 5
 6 opposition is now organized online, from outside the country. It could also mean 6
 7 that civil society leaders turn to other organizational forms afforded by network 7
 8 technologies. When states disconnect particular social media services, student and 8
 9 civil society leaders develop creative workarounds and relearn traditional (offline) 9
 10 mobilization tactics. This almost always means that target sites, such as YouTube, 10
 11 Facebook, and Twitter, are accessible through other means. 11

12

13

14 **The Causes and Consequences of Digital Interventions** 14

15

16 When a political, military, or other security crisis is over, what remains is the lasting 16
 17 impact of a temporary outage in digital network connectivity. The Internet has 17
 18 become a crucial component of political communications during elections—even 18
 19 rigged ones. It has also become a crucial component of political communication 19
 20 during other kinds of regime transition, such as executive turnover, foreign military 20
 21 intervention, natural disasters, and social protests that challenge a regime's 21
 22 legitimacy. Information infrastructure is not simply part of the general context of 22
 23 contemporary social mobilization. Indeed, social computing is a defining feature 23
 24 of elections these days. Digital media such as mobile phones and the Internet now 24
 25 help incubate civic conversations, especially in countries that heavily censor the 25
 26 national print and broadcast media. 26

27 Internet access is often limited to wealthy social elites, but these elites have a 27
 28 key role in either accepting or rejecting the outcome of an election. The Internet 28
 29 has become a necessary infrastructure for the development of civil society and 29
 30 election season is often the time for civic groups to be most active. Most (though 30
 31 not all) of the regimes studied in this event catalogue are authoritarian, or were 31
 32 when the decision to disconnect from global information networks was taken. For 32
 33 authoritarian regimes, the single greatest threat to stability is often internal: elite 33
 34 defection. When the cohort of wealthy families, educated and urban elites, and 34
 35 government employees decide they no longer wish to back a regime, it is most 35
 36 likely to fail. In most of the countries studied here, only a small fraction of the 36
 37 population has Internet access through computers and mobile phones. However, 37
 38 this small population is the one that authoritarian regimes work hard to broker 38
 39 information for. 39

40 It is not Twitter, blogs, or YouTube that cause social unrest. But today, successful 40
 41 social movement organizing and civic engagement is difficult to imagine without 41
 42 them, even in countries like Iran and Egypt. Many people in these countries have 42
 43 no Internet or mobile phone access. Nevertheless, the people who do—urban 43
 44 dwellers, educated elites, and the young—are precisely the population with the 44

1 capacity to enable regime change, or tacitly support electoral outcomes. These 1
 2 are the populations who support or defect from authoritarian rule, and for whom 2
 3 connections to family and friends have demonstrably changed with technology 3
 4 diffusion. Comparative analysis reveals the degree to which different regimes 4
 5 feel threatened by social media, whether such tools are actively used to organize 5
 6 dissent, or passively used for producing and consuming culture. 6

7 The political climax of uprising takes the form of state crackdowns or major 7
 8 concession to popular demands that can include executive turnover. Stalemates 8
 9 between protesters and ruling elites can result in protracted battles. But in each 9
 10 country, the political climax of uprising can also be marked by a clumsy attempt 10
 11 by the state to disconnect its own people from digital communications networks. 11
 12 Banning access to social media websites, powering down mobile phone towers, 12
 13 or disconnecting the Internet exchange points in major cities are an authoritarian 13
 14 government's desperate strategies for asserting control. And there are serious 14
 15 economic consequences to disconnecting a nation from global information 15
 16 infrastructures, even temporarily. Interrupting digital services cost Egypt's 16
 17 economy at least \$90 million, and their reputation among technology firms as a 17
 18 stable place for investment. In Tunisia it was activist hackers—"hacktivists" as 18
 19 many call themselves—who did the most economic damage by taking down the 19
 20 stock exchange. But for the most part, it is recalcitrant authoritarian governments 20
 21 who make the decision to interfere with their country's digital networks. 21

22 When regimes disconnect from global information infrastructure, they employ 22
 23 a range of stop-gap measures that usually reinforces public expectations for global 23
 24 connectivity. But not all of these tactics are short-term innovations by the regime 24
 25 during moments of crisis. As the contributors of this collection detail, some 25
 26 regimes have an astoundingly long-range vision for understanding the political 26
 27 threats and opportunities that may arise from the diffusion of new communication 27
 28 technologies to civil society sectors. But state hegemony is by no means an absolute 28
 29 guarantee, and is more realistically determined by a regime's ability to anticipate 29
 30 and calculate new ways of dominating democratic outcomes and civic innovations 30
 31 by creative and brave political activists. This is why the following collection, *State* 31
 32 *Power 2.0: Authoritarian Entrenchment and Political Engagement Worldwide*, is 32
 33 divided in two parts including 12 original chapters. 33

34 Part I focuses on the advancement of authoritarian power through information 34
 35 infrastructure. Chapters 1 and 2 offer historical analyses of Tunisia and Iran's digital 35
 36 management and censorship strategies, while Chapter 3 offers a contemporary and 36
 37 comparative analysis of how these regimes' differences garnered both successes 37
 38 and failures in moments of political uncertainty. Chapter 4 further advances this 38
 39 perspective by investigating the strategic leveraging of information infrastructure 39
 40 to extend political control over Gaza's fragile regime. Finally, Chapter 5 examines 40
 41 the most destructive outcomes from a regime's inability to rein in the political 41
 42 capacity of digital networks: decision pathways that lead to state-sponsored 42
 43 violence against peaceful activists, particularly true for cases like Syria and 43
 44 Bahrain. 44

1 Part II of this collection draws on cases from around the world, including North 1
 2 Africa, the Middle East, Eastern Europe, Southeast Asia, and from the emerging 2
 3 presence of digitally-enabled and transnational political hackers, like Anonymous 3
 4 and Telecomix. This set of chapters (Part II) counterbalances the advancement of 4
 5 state power (Part I) with overwhelming evidence documenting the ways in which 5
 6 democratic activists are using these very technologies to outmaneuver dictators in 6
 7 brave and creative ways. Chapter 6 begins this with regional observations from 7
 8 Arab countries, while chapters 7, 8, and 9 investigate the cases of Egypt, Kuwait, 8
 9 and Morocco, respectively. All offer evidence for the ways in which digital media 9
 10 have come to overlap with existing media systems and communication norms 10
 11 to support *long-term* democratization. Finally, the last three chapters (10, 11, 11
 12 and 12), focusing on Vietnam, Russia, and the transnational hactivist network 12
 13 “Anonymous,” provide some of the best evidence of the creative civic and 13
 14 political innovations—innovations that have come as a consequence of activists 14
 15 repurposing existing technology infrastructure that their regimes have yet to fully 15
 16 comprehend and struggle to buffer against. 16

17 The political culture that we now see online during elections and political 17
 18 crises comes not just from political elites, but from citizens: using social media, 18
 19 documenting human rights abuses with their mobile phones, sharing spreadsheets 19
 20 to track state expenditures, and pooling information about official corruption. 20
 21 Perhaps the most lasting impact of digital media use during crises is that people 21
 22 get accustomed to being able to consume *and* produce political content. Most 22
 23 technology users in most countries do not have the sophistication to work around 23
 24 state firewalls or keep up anonymous and confidential communications online. 24
 25 But within each country (and increasingly transnationally) a handful of tech-savvy 25
 26 students and civil society leaders do have these skills, and used them well during 26
 27 the Arab Spring. Learning from other democracy activists in other countries, these 27
 28 information brokers used satellite phones, direct landline connections to ISPs 28
 29 in Israel and Europe, and a suite of anonymization tools to supply international 29
 30 journalists with pictures of events on the ground—even when desperate dictators 30
 31 attempted to shut down national ISPs. When digital networks are reactivated, 31
 32 personal networks that cross international boundaries also reactivate. Digital 32
 33 outages have become sensitive moments in which student leaders, journalists, and 33
 34 civil society groups experiment with digital technologies. Even if their favorite 34
 35 candidates are not elected and repressive regimes succeed in holding on to power, 35
 36 the process of experimentation with digital media is important because it results 36
 37 in infusing more information habits and news diets independent of the state into 37
 38 their daily engagement with public life. This is also why information infrastructure 38
 39 *is* politics—and because of its international organization, it is increasingly an 39
 40 important domain of international politics. 40

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PART I
Information Infrastructure
and Social Control

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Chapter 1

Origins of the Tunisian Internet

Katherine Maher and Jillian C. York

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10 In 1985, the government of Tunisia under President Habib Bourgiba received a \$3 10
11 million (USD) Computer Technology Transfer Project Grant from the US Agency 11
12 for International Development (USAID). This funding contributed towards the 12
13 establishment of a national research body, the Institut Régional des Sciences 13
14 Informatiques et des Télécommunications (IRSIT) in 1987, dedicated to the 14
15 promotion of telecommunications and computer sciences in Tunisia (Kavanaugh 15
16 1998). IRSIT was the country’s most prestigious technological research 16
17 institution, and attracted some of the Tunisia’s finest research and engineering 17
18 talent, employing 45 full-time computer scientists on staff (Curtis 1996). 18

19 Many of IRSIT’s engineers had conducted their graduate studies abroad in 19
20 the 1980s, at institutions in Europe and the United States that were early adopters 20
21 of packet-switching “internetworks” for academic information sharing, such as 21
22 the Michigan State University (home to the Merit Network, one of the earliest 22
23 “internetworks”) (Silver 2011). The experience these engineers brought to IRSIT 23
24 was at the cutting edge of computer internetworking. The TCP/IP protocol they 24
25 used to connect discrete local networks was still relatively new; although in use by 25
26 research and academic networks in the United States over the previous decade, its 26
27 adoption in Europe was not widespread until the late 1980s. 27

28 IRSIT made Tunisia’s first connection to the global network in April 1991, via 28
29 IP connection to an Amsterdam EUNet node, becoming the first African country 29
30 to connect to the Internet (Curtis 1996). This initial trans-Mediterranean link was 30
31 later complemented by connection via BITNET to European research networks, 31
32 and services such as the FidoNet bulletin board systems (BBS) (ASC 1994, NSRC 32
33 1995), putting Tunisia on par with comparable networks in the US and Europe. 33
34 In 1992, on the basis of its advanced networking capacity, Tunisia was selected 34
35 to participate in the UNESCO Regional Informatics Network for Africa (RINAF) 35
36 initiative, intended to increase Internet connectivity across the African continent 36
37 through increasing the density of regional networking exchanges (UNESCO 37
38 1993). 38

39 As Tunisia’s first implementer of internetworking technology, IRSIT became 39
40 the country’s primary resource for expanding connectivity across the country. In 40
41 1993, IRSIT was awarded a mandate by the Government of Tunisia to connect 41
42 the country’s universities and research institutions through the Réseau National 42
43 de Recherche de Tunisia, or RNRT (Kavanaugh 1998). In 1994, Tunisia initiated 43
44 participation in the Sustainable Development Networking Program (SNDP), 44

1 a United Nations Development Program (UNDP) program to support local 1
2 development objectives; the SNDP awarded a contract to IRSIT to wire Tunisian 2
3 non-governmental organizations (NGOs). Through these efforts, connectivity 3
4 expanded; by 1995, Tunisia had roughly 1,000 Internet users utilizing services 4
5 such as email and FTP; however limited bandwidth precluded the use of the World 5
6 Wide Web (Kavanaugh 1998). 6

7

8

9 **Creation of the ATI** 9

10

11 In these early years, the Tunisian Internet mirrored the global Internet at large: 11
12 a non-hierarchical, freewheeling network run by enthusiast engineers. Research 12
13 institutions and telecommunications providers operated distributed, decentralized 13
14 server clusters, with client servers running local email networks free of 14
15 government oversight (Silver 2011). Access to the network was largely limited to 15
16 those affiliated with universities or research institutions; and the network was used 16
17 accordingly. However, in April 1996, this freewheeling national experiment came 17
18 to an abrupt halt, with the government-ordered creation of the Agence Tunisienne 18
19 d'Internet, popularly known as ATI. 19

20 The ATI was an unusual body from its inception. Established with a mandate 20
21 to “catalyze Tunisia’s ‘Information Society’,” it functionally allowed for 21
22 consolidated state control over the country’s burgeoning network. It quickly 22
23 centralized oversight of the Internet under the executive branch and distributed 23
24 preferential contracts and services to allies of the ruling regime. So close was ATI 24
25 to the presidency that the agency was headed by a director close to the family of 25
26 the dictator and located its offices in a whitewashed hillside villa belonging to Ben 26
27 Ali, its director’s office in the President’s former sitting room. 27

28 Although established by the government, ATI is a limited liability private 28
29 company, with its executive oversight managed by a board composed of its 29
30 shareholders. However, a significant portion of its shares are held by firms with state 30
31 interests, and those firms themselves are subject to further regulatory oversight by 31
32 state agencies, enabling the Tunisian state to wield significant indirect power over 32
33 ATI functions. At the ATI’s founding, the national incumbent operator Tunisie 33
34 Telecom held a 27 percent majority stake and IRSIT owned 10 percent. After the 34
35 abolishment of IRSIT, Tunisie Telecom became the main shareholders with 37 35
36 percent and the now-defunct Agence Tunisienne de la Communication Extérieure 36
37 (ATCE) held 13 percent, with the remaining 49 percent held by a mixture of semi- 37
38 public Tunisian banks and technology firms (Market Access Database 2002). And 38
39 despite its status as a nominally independent private firm, the ATI and its Executive 39
40 Director were placed under the supervision of the Ministry of Communications. 40

41 ATI’s first function was to assume responsibility from IRSIT for the national 41
42 network, taking over administration of network services for the military and 42
43 universities, and the provision of commercial and consumer Internet services 43
44 (Kavanaugh 1998). Following the transfer, IRSIT was defunded and privatized, 44

1 its assets sold to Tunisian technology and engineering firms, including the state- 1
 2 owned incumbent Tunisie Telecom, now majority-shareholder in ATI (Market 2
 3 Access Database 2002). IRSIT's employees were subsequently absorbed into the 3
 4 new private firm, as well as into state institutions, including the national regulator, 4
 5 the Ministry of Communications Technologies, as well as Tunisie Telecom. 5

6 Two years after ATI's founding, the agency had established itself as the sole 6
 7 national operator of the Tunisian Internet backbone. One of its earliest actions had 7
 8 been to outsource consumer Internet services to the country's first commercial ISP, 8
 9 Planet Tunisie, owned by Cyrine Ben Ali, daughter of the president; additional 9
 10 services were later added through ISP 3S Global Net (UNECA 2012). ATI also 10
 11 controlled registration for ".tn" top-level domains (ATI 1998), giving it effective 11
 12 censorial control over domain allocation. This consolidation of domain registration 12
 13 and authority over service provision in one organization gave ATI unprecedented 13
 14 control over the allocation of national network resources. 14

15 Although busily engaged in centralizing network oversight, the Government 15
 16 of Tunisia continued to actively encourage national adoption of the Internet as 16
 17 an economic development strategy. It launched its PubliNet initiative in 1998, 17
 18 aimed at increasing Internet access options through community centers, while in 18
 19 1999 "Internet Caravans" were launched to travel the country providing mobile 19
 20 workshops about the Internet. In 2000, the ATI introduced an encrypted e-payment 20
 21 system, called E-Tijara, to support the development of the commercial web (Rao 21
 22 2001). In 2004, seeking to encourage widespread computer use, the government 22
 23 lifted customs fees on computers, set a price ceiling for hardware, arranged low- 23
 24 interest loans, and offered Internet subscriptions with each computer purchase; 24
 25 however, costs remained stubbornly high, and the program was not particularly 25
 26 successful (Freedom House 2011). 26

27 The Tunisian government's efforts to expand usage of the Internet while 27
 28 consolidating its management and use foreshadowed its later struggles to maintain 28
 29 control over a network with growing civil and political importance. The tensions 29
 30 between the networked authority and the decentralized users would continue over 30
 31 the course of the next decade; with government movements toward consolidation 31
 32 met by vigilant, resilient, and increasingly technically sophisticated opposition. 32
 33 Initially organized as a counterforce against government encroachments on issues 33
 34 such as free speech and privacy, this opposition would ultimately appropriate the 34
 35 network itself for broader political resistance. 35

36

37

38 **State Regulation and Ownership** 38

39

40 Tunisia recognized the potential of the Internet as an economic and social 40
 41 development tool relatively early on; however it took some time before the ruling 41
 42 regime deliberately consolidated the network for its commercial and political ends. 42
 43 The first step in this process was the shifting of networking authority from IRSIT to 43
 44 ATI; the second part of the process was establishing legal frameworks that would 44

1 guarantee government sovereignty over networks and obfuscate direct lines of 1
2 accountability. The result was the creation of an Internet and telecommunications 2
3 regulation framework that was often opaque, and at times intentionally byzantine. 3
4 At the time of ATI's creation in 1996, the cabinet-level Ministry of 4
5 Communications was the primary authority for the planning, supervision, and 5
6 regulation of the telecommunications industries in Tunisia. Through its General 6
7 Directorate for Telecommunications, it managed the national regulatory and 7
8 oversight functions for Internet, spectrum, broadcasting, digital certificates, 8
9 and mobile communications; it was also responsible for attracting international 9
10 investment and growing the domestic ICT sector. The Ministry also housed an 10
11 office on open communications, headed by a Secretary for Internet, Computers, 11
12 and Free Software, an office recognized and denounced by Internet activists as a 12
13 government effort to co-opt the open source community. 13

14 In 1997, Tunisia signed an agreement with the WTO to reform its 14
15 telecommunications sector (Kamoun 2010). Four years later, DL No. 2001-1 was 15
16 passed, outlining the framework for a new telecommunications code. The Tunisian 16
17 Telecommunications Code, or TTC, officially opened the sector to the private 17
18 market, and authorized the creation of semi-independent national regulatory 18
19 agencies, including the Instance Nationale des Telecommunications, or INT 19
20 (Market Access Database 2002). However, the precise legal mandate of the INT 20
21 was left undefined in the TTC, with the Ministry of Communications continuing 21
22 to exercise significant budgetary and executive authority. 22

23 The clear allocation of responsibilities, as well as the organizational structure 23
24 and relationships among national institutions, were often indistinct, even to 24
25 government officials. Ministry staffers were often left in the dark about the 25
26 precise rationale of policy decisions: senior officials were disinclined to provide 26
27 justification, and civil servants were discouraged from inquiring. Competing and 27
28 unclear mandates for oversight over the Internet (and mobile network operators) 28
29 helped insure minimal accountability on the part of policymakers and the executive 29
30 office, while enabling maximal governmental controls over resources, content, 30
31 and use. 31

32 When the ATI issued a contract to the Ben Ali family-owned ISP Planet Tunisie 32
33 as one of five providers of commercial Internet services, it was one among many 33
34 instances of state contracts and network licensing granted to firms and operators 34
35 owned or associated with allies of the ruling family. According to US State 35
36 Department cables obtained by Wikileaks, the extent of corruption by the Tunisian 36
37 ruling family was so pervasive that "whether it's cash, services, land, property, 37
38 or yes, even your yacht, President Ben Ali's family is rumored to covet it and 38
39 reportedly gets what it wants" (White 2011). 39

40 Following the 2001 TTC reforms, the state owned incumbent mobile network 40
41 operator (MNO), Tunisie Telecom, was joined by Orascom Telecom Tunisie (d.b.a. 41
42 as Tunisiana) in 2002, and Orange Tunisia in 2010. However, the reforms did not 42
43 guarantee a more competitive marketplace: under Ben Ali, MNO licensing was 43
44 described by bidders as uncompetitive (CWS 2012). Concessions were awarded to 44

1 members of the extended ruling family; their stakes grew larger and their influence 1
 2 bolder over time. 2
 3 Tunisia, the country's largest telecom and second entrant to the market, was 3
 4 owned 25 percent by a holding company of Sakher El Materi, the son-in-law of 4
 5 Ben Ali. In 2002, Tunisia was founded. In 2009, the country's third license was 5
 6 granted to Orange Tunisie; a joint venture between Orange France (49 percent) 6
 7 and Groupe Mabrouk (51 percent), the holding company of Marwan Mabrouk and 7
 8 Cyrine Ben Ali, daughter of the former president. Orange France has since been 8
 9 plagued by accusations that it paid bribes to acquire the operating license, paying 9
 10 less than full licensing fees to the state, and the remainder to Groupe Mabrouk. 10
 11 (Tesquet 2011) The Groupe Mabrouk majority stake has since been confiscated by 11
 12 the Tunisian government and is pending resale (Saigol 2011). 12

13

14

15 **Tunisian State Controls on the Emergence of Censorship** 15

16

17 As the Tunisian government promoted Internet connectivity, citizens went online, 17
 18 using the networks to find information and communicate. This early gradual 18
 19 adoption—going from .03 percent Internet penetration in 1996 at the time of ATI's 19
 20 creation to 5.25 percent by 2002 (ITU 2012)—coincided with the introduction of 20
 21 commercial online platforms for self-publishing. The launch of services such as 21
 22 Blogger and LiveJournal in 1999 enabled anyone with a computer and Internet 22
 23 access to share their thoughts with a global audience, and gave birth to the 23
 24 "blogosphere," an interconnected web of personal opinion and expression. 24

25 Much like the early Internet, these digital spaces had the allure of the 25
 26 unregulated: free of censorship and offering the appearance of anonymity. 26
 27 Tunisians took to blogging and other self-publishing forums to express dissidence 27
 28 on a broad range of sensitive cultural and political issues, countering official state 28
 29 narratives and offering a range of opinions rarely evident in the traditional press. 29
 30 As expression in these spaces grew increasingly critical of the Ben Ali regime, the 30
 31 government responded: Tunisia, the first Arab country to connect to the Internet 31
 32 also became the first to utilize the Internet for repression. 32

33 In 2002, security forces arrested the creator of a popular online forum and 33
 34 magazine, TUNeZINE. Zouhair Yahyaoui, then 33, had crossed Tunisia's unstated 34
 35 red lines, and subsequently arrested by security officers at the cybercafé he used to 35
 36 work at. Later charged and convicted of "intentionally publishing false information 36
 37 and using stolen communication lines," Yahyaoui served a reduced sentence of 24 37
 38 months in prison, during which he was subjected to torture and kept in squalid 38
 39 conditions. He was released in 2003, but died two years later from complications 39
 40 related to his maltreatment while in detention (Watson-Boles 2004). 40

41 In its brief existence TUNeZINE became known for its bold treatment of 41
 42 Tunisian human rights issues, prompting the government to block access to the 42
 43 site within Tunisia. In censoring TUNeZINE, the government likely believed it 43
 44 would be able to deter future digital activism; however, TUNeZINE was soon 44

1 joined by other dissident voices. In 2000, journalists Naziha Rejiba and Sihem 1
 2 Bensedrine launched the independent news site *Kalima* (kalima-tunisie.info). Like 2
 3 *TUNeZINE*, *Kalima* was quickly censored by the authorities; Rejiba found herself 3
 4 the target of sustained harassment, detention, and surveillance. In response, Rejiba 4
 5 and Bensedrine founded the Observatoire de la liberté de la presse de l'édition 5
 6 et de la création (OLPEC), a press freedom group, in 2001. OLPEC itself was 6
 7 quickly banned in Tunisia (CPJ 2009). 7

8 In 2004, another dissident blog launched, backed by technologists prepared to 8
 9 outfox and resist the official state censors. *Nawaat* was co-founded by Tunisian 9
 10 exiles, several of whom were to remain anonymous until after the ouster of Ben Ali. 10
 11 At the time of *Nawaat*'s launch, pseudonymous contributor "Astrubal" released a 11
 12 video that remixed the popular "1984" Apple Computer advertisement, replacing 12
 13 the advertisement's droning dictator with then-president Ben Ali (Zuckerman 13
 14 2007). This innovative approach would set the stage for later interventions by 14
 15 Tunisian bloggers and activists, though *Nawaat* was soon blocked by government 15
 16 censors. 16

17 By 2005, online censorship of dissident opinion had become an established 17
 18 practice in Tunisia. That year, the World Summit on Information Society (WSIS) 18
 19 scheduled its meeting in Tunis, providing an opportunity to draw attention to the 19
 20 issue. At the time, the country had fewer than one million Internet users, but 2004 20
 21 research by the independent OpenNet Initiative (ONI) found 72 "global" sites 21
 22 blocked out of 770 tested (ONI 2005). Censorship was concentrated in four main 22
 23 areas: "political opposition, criticism of the government's human rights record, 23
 24 methods of circumventing filtering, and pornography." ONI noted the blocking of 24
 25 39 out of 110 "high-impact sites" containing topics known to be sensitive to the 25
 26 Tunisian government (2005); these sites included human rights information and 26
 27 political opposition. 27

28 28
 29 29

30 **Dissidence to Activism** 30 31 31

32 Digital freedom advocates responded to the announcement that WSIS would be 32
 33 held in Tunisia with dismay. However, Tunisian activists—led by a group called 33
 34 the *Association Tunisienne pour la Promotion et la Défense du Cyberspace*— 34
 35 saw an opportunity to draw broader global attention to Ben Ali's stronghold on 35
 36 online information. They launched the *Yezzi Fock, Ben Ali (Enough is enough,* 36
 37 *Ben Ali)* and *Freedom of Expression in Mourning* campaigns, calling for virtual 37
 38 demonstrations and expressions of solidarity (ATPDC 2005). Though the 38
 39 campaigns were successful in raising awareness amongst WSIS participants, 39
 40 WSIS attendee and researcher Ethan Zuckerman (2005) later recounted meetings 40
 41 being interrupted by security forces, as well as local human rights activists being 41
 42 beaten by government thugs after meeting with summit attendees. 42

43 The success of the WSIS campaigns encouraged others to take similarly 43
 44 innovative approaches to digital activism. In 2006 and 2007, activist Sami Ben 44

1 Gharbia reported (2008) that Tunisian bloggers had organized “Blank Post Day,” 1
 2 encouraging bloggers to publish an empty post in protest of censorship, and on 2
 3 July 1, 2008, bloggers around the country were encouraged to dedicate their blog 3
 4 posts to the topic of freedom of expression. A different 2007 campaign, created by 4
 5 *Nawaat* (Foreign Policy 2007) tracked the use of the Tunisian presidential plane 5
 6 for unofficial and unreported trips to European and Arab Gulf cities, presumably 6
 7 by the First Lady and her entourage. 7

8 By 2008, the Ben Ali government had established itself as willing to utilize 8
 9 all means to silence its online critics. In a report for *Global Voices Advocacy*, 9
 10 Sami Ben Gharbia (2008) wrote, “Blocking [websites] is the most obvious way 10
 11 of cracking down of the online free speech in Tunisia. It should be emphasized, 11
 12 however, that this is only one tool in the regime’s hand. Tunisia has adapted to the 12
 13 web 2.0 revolution by developing a broader strategy [including the punishing and 13
 14 persecution of] outspoken online writers, bloggers and dissidents.” According to 14
 15 Ben Gharbia’s report (2008), more than 12 people were arrested and/or sentenced 15
 16 for a variety of crimes, from “visiting banned websites” to “violation of morality 16
 17 standards.” 17

18 As Internet penetration grew, and use of circumvention tools spread among 18
 19 users, the Ben Ali government also sought to increase the sophistication of 19
 20 technological means of censorship. As Sami Ben Gharbia reported in 2010, this 20
 21 included the adoption of a four-pronged strategy that utilized DNS poisoning 21
 22 (redirecting a server request to a different destination); IP filtering (blocking 22
 23 access to sites based on the numerical address of the server or device, known as an 23
 24 IP address); keyword filtering (blocking access based on the presence of selected 24
 25 words in the requested content); anything not caught by these three methods was 25
 26 subject to selective blocking by URL. In addition, researcher Ben Wagner (2009) 26
 27 believed that it was likely “some forms of DPI technology for surveillance and 27
 28 filtering are currently in place,” enabling the government access to most traffic 28
 29 transferred via standard web encryption protocols. 29

30 Between the time of the ONI’s first report (2005) and its third (2009), Tunisian 30
 31 Internet usage increased dramatically, from 9.66 percent of the population in 2005 31
 32 to a staggering 34.1 percent in 2009 (ITU 2012). So too did online censorship: 32
 33 it encompassed social networking and video-sharing websites; the sites of 33
 34 human rights organizations including Amnesty International, Freedom House, 34
 35 and Reporters Without Borders; a wealth of political opposition websites; and 35
 36 anonymizer and proxy tools used to bypass censorship (ONI 2009). 36

37 Users attempting to visit blocked websites were never informed explicitly that 37
 38 the site they were seeking had been censored; instead, queries returned a fake 38
 39 result for an HTTP 404 error. The misleading result, indicating a problem with 39
 40 the website rather than blocked content, was likely intended to provide plausible 40
 41 deniability about the extent of the government’s expanding censorship apparatus. 41
 42 This clumsy effort earned the censorship apparatus its own identity—personified 42
 43 by the nickname “Ammar404.” 43

44 44

1 Despite protest by activists against Ammar404, once a site was added to the 1
 2 “block list,” it rarely was unlisted. However, in August 2008, government censors 2
 3 appeared to cross a line too far, blocking the immensely popular Facebook. 3
 4 Facebook had become increasingly popular with activists, who were using 4
 5 the platform’s “Groups” feature to organize anti-government events. But the 5
 6 government had overreached, underestimating the popularity of the platform with 6
 7 ordinary users. Infuriated Tunisians took to the streets, and the censors relented, 7
 8 restoring access to the site. 8

9 In 2010, the government dramatically increased its efforts to stifle online 9
 10 discourse, blocking individual activist Twitter accounts and instituting a 10
 11 widespread ban on most social networking sites. By April of 2010 (Gharbia 2010), 11
 12 nearly every major video-sharing service was blocked, and the response time of 12
 13 censors to new websites had fallen to fewer than 24 hours. In July 2010 the ATI 13
 14 blocked the operating ports for the secure transmission protocol HTTPS, pushing 14
 15 Tunisian communications onto unencrypted plaintext channels. In certain cases, 15
 16 users attempting to login to Gmail, Yahoo, or Facebook were redirected to spoofed 16
 17 login pages, used to capture individual username and password details (Amamou 17
 18 2010). 18

19 The increasingly heavy-handed and indiscriminate application of these 19
 20 techniques reached Tunisians far beyond a dedicated cadre of activists, stirring 20
 21 an ordinarily disinterested public. In response, a group of Tunisian activists 21
 22 launched a new campaign under the slogan *Sayeb Sala7*. On blogs and social 22
 23 networks, Tunisians protested “Sayeb Sala7, ya Ammar,” local slang imploring 23
 24 the “Ammar404” censors to “let it go,” or ease up on censorship. The message 24
 25 spread quickly, reaching beyond a traditional activist audience. On May 22, 2010, 25
 26 Tunisians organized “#manif22mai” protests against censorship in Tunis, Paris, 26
 27 and other centers of the Tunisian diaspora (Ben Gharbia 2010b). 27

28 Though the May 22 protests were large enough to force coverage by the local 28
 29 media, the government tried to prevent them from ever happening. According to 29
 30 blogger Nasser Weddady (2010), several of the organizing activists were arrested 30
 31 by internal security on May 21, a day before the protests. They were forced to 31
 32 record a video calling off the May 22 protest, and sign a document testifying 32
 33 their understanding that “calling for a demonstration is wrong.” To mitigate the 33
 34 effects of the video (Gharbia 2010b), friends of the detained activists signed a 34
 35 communiqué calling for a “Plan B”: a march down the main boulevard of Tunis, 35
 36 dressed in white, followed by a temporary occupation of the avenue’s many cafés: 36
 37 a symbolic act protesting censorship. 37

38
 39

40 **The Internet in Revolution** 40 41 41

42 By late 2010, efforts by the state to stifle communications had given rise to an 42
 43 established and experienced online activist community. When Mohamed Bouazizi 43
 44 self-immolation in the town of Sidi Bouzid sparked protests across Tunisia in 44

1 December of 2010, the online activist community had the networks, skills, and 1
2 agility to respond. As ordinary Tunisians shared videos and images of quickly 2
3 spreading protests, the online community was critical to sharing and confirming 3
4 information. International media outlets like *Al Jazeera*, long-banned from Tunisia, 4
5 used these networks to source first-hand reports of unrest and state response 5
6 (Morozov 2011). With an estimated 36.6 percent of the Tunisian population online 6
7 (World Bank 2010) social media became the primary tool for circumventing 7
8 official state narratives. 8

9 The rapid spread of these stories and images was facilitated by market forces: 9
10 only one year previously the country's largest mobile network operator, Tunisiana, 10
11 with roughly 70 percent market share and quarter-owned by the extended ruling 11
12 family, had introduced data packages that enabled Tunisians to access Facebook 12
13 for very low rates. This data package drove adoption of smart phones and the 13
14 social network itself, offering channels for simple one-to-many sharing of updates, 14
15 video, and images. Facebook's ability to share rich-media was of particular 15
16 importance, given Tunisia's blocking of video- and image-sharing platforms. 16

17 As inflammatory images of protests and state violence spread the government 17
18 responded aggressively. Utilizing techniques such as phishing, spoofing, and 18
19 brute-force hacking, it worked to obtain user login credentials to social networks, 19
20 infiltrate activist communications networks, and freeze user social media accounts. 20
21 According to a report by the Committee to Protect Journalists (O'Brien 2011), 21
22 Tunisian authorities "[modified] web pages on the fly to steal usernames and 22
23 passwords for sites such as Facebook, Google and Yahoo." Tunisians logging into 23
24 those sites would find their login credentials stolen and used by unknown parties 24
25 which, in some cases, deleted the stolen Facebook accounts and affiliated groups 25
26 and pages. 26

27 Furthermore, nominally "independent" ISPs were reported to throttle consumer 27
28 bandwidth and instituted caps on large file transfers (Reinhard 2010). Users across 28
29 the country reported unconfirmed outages of mobile network and data service in 29
30 areas near protests, though it is possible that outages may have been the result of 30
31 network load failures rather than deliberate service shutdowns. 31

32 As demonstrations multiplied and conflict between citizens and the regime 32
33 escalated, bloggers inside and outside of Tunisia were harassed and detained. Two 33
34 weeks into the protests, prominent blogger and government critic Slim Amamou 34
35 was detained at the Ministry of the Interior. Others, including the well-known 35
36 citizen journalists Lina Ben Mhenni and Sofiane Chourabi, found their email and 36
37 Facebook accounts hacked, while exile activist and regime abuse cataloguer Sami 37
38 Ben Gharbia documented and published intrusions into his personal webmail 38
39 account (Maher 2011). 39

40 As the battle escalated online, Tunisians found themselves beneficiaries of 40
41 foreign attention from sympathetic "hacktivists," including the distributed global 41
42 movement known as "Anonymous" (Ragan 2011). The majority of efforts were of 42
43 limited technical sophistication; including distributed denial of service (DDOS) 43
44 attacks aimed at Tunisian government websites from "Low Orbit Ion Cannon" 44

1 (LOIC), an Anonymous botnet. However, the collective also ran a campaign 1
 2 encouraging Internet users to set up relays and bridges of the Tor anonymization 2
 3 network for use by Tunisians, and offered Tunisians struggling with malicious 3
 4 script injections on their email and social network accounts help with instructions 4
 5 on overriding forced-login phishing attacks (Maher 2011). 5

6 Despite the use of aggressive tactics by the Tunisian government, attempts 6
 7 to disrupt information networks were largely ineffectual, and diminished in 7
 8 relevance as protest momentum grew offline. Efforts to target individual users 8
 9 proved insufficient as discontent spread beyond traditional activist communities, 9
 10 and targeted interventions were unable to sufficiently scale to all Tunisian 10
 11 Internet users. Unlike the Egyptian and Libyan governments in their subsequent 11
 12 popular uprisings, the Tunisian government never resorted to whole-scale 12
 13 network shutdown, perhaps fearing the potential damages to the economy or 13
 14 underestimating the severity of the unrest it faced. 14

15 Protests continued to multiply in force and intensity across Tunisia. On January 15
 16 13, 2011, following unprecedented crowds on the main boulevard of downtown 16
 17 Tunis, President Ben Ali appeared on television for a third time, in what would 17
 18 become his final speech to the nation. In the seven-minute speech, the dictator 18
 19 promised “full freedom for all means of information, no more blocking of the 19
 20 Internet, and rejection of all forms of censorship while respecting our ethics and 20
 21 the principles of the journalistic profession.” Within hours of Ben Ali’s appearance, 21
 22 Tunisians reported most known blockages to have been lifted. The following day 22
 23 Ben Ali and his family fled the country for Saudi Arabia, ending the president’s 23
 24 23-year rule. 24

25 25
 26 26

27 **Dismantling the Digital Deep State** 27 28 28

29 Following Ben Ali’s abrupt flight from the country, Tunisians waited for the 29
 30 country’s censors to similarly abandon post. Within hours, an easing of censorship 30
 31 was reported (Wagner 2012); one week later, on January 22, the Secretariat of State 31
 32 for Information Technologies released a statement asserting the restoration of full, 32
 33 unfiltered access, with the exception of sites “with indecent content, comprising 33
 34 violent elements or inciting hatred.” Although the statement gave little definition 34
 35 of the exceptions, it marked the beginning of the end of censorship in Tunisia. 35

36 When Ben Ali fled Tunisia for Saudi Arabia, Kamel Saadaoui was in his third 36
 37 year as director of the ATI. Saadaoui was among the original IRSIT engineers 37
 38 who had remained with the government following the establishment of ATI and 38
 39 was familiar with the operations of the regime. He soon granted interviews with 39
 40 the Western press, such as *Wired* magazine, providing insight into the details of 40
 41 the country’s censorship and surveillance apparatus (Elkin 2011). Shortly after the 41
 42 revolution, Saadaoui was made head of the INT, and was replaced at the ATI by Dr 42
 43 Moez Chakchouk, a former ministerial advisor in the Ministry of Communications 43
 44 Technologies. 44

1 While Saadaoui oversaw the suspension of Tunisia's filtering regime, it was 1
2 under Chakchouk's leadership that the ATI began the process of dismantling the 2
3 structures of censorship and surveillance. As Chakchouk reported (Abrougui 3
4 2011b), one of the first actions of the ATI post-revolution was to cancel contracts 4
5 with Western surveillance technology suppliers. The systems of control were 5
6 revealed to be so extensive that Chakchouk quipped to *Wall Street Journal* reporter 6
7 Paul Sonne (2011) that a group of visiting security researchers had suggested to 7
8 him that "[the] Chinese could come here and learn from you." 8

9 The details of these contracts, including the identities of specific providers 9
10 of software, hardware, and support services, remain unknown due to contractual 10
11 confidentiality stipulations. Research by the OpenNet Initiative (2011) identified 11
12 SmartFilter, from US-based MacAfee as in use in Tunisia since 2002, an assertion 12
13 Chakchouk later confirmed (Ryan 2011). *Bloomberg News* (Silver 2011) identified 13
14 Tunisia's mobile phone interception and logging systems to have been provided 14
15 by ETI A/S, a Danish firm now wholly owned by UK-based BAE Systems, and 15
16 Trovicor GmbH, a German firm recently divested from Nokia Siemens Networks. 16
17 Utimaco Safeware AG, a subsidiary of UK-based cybersecurity firm Sophos, 17
18 provided further support systems. All of these firms have deferred questions or 18
19 denied direct sales arrangements with the Tunisian government. 19

20 Former ATI head Saadaoui further acknowledged that the Tunisian government 20
21 was known to procure vendor services from corporations represented at the ISS 21
22 World conference, more commonly known as the "Wiretappers Ball," an infamous 22
23 trade show for surveillance frequented by intelligence and national security 23
24 agencies from around the globe (Silver 2011). In October 2011, Chakchouk 24
25 revealed that companies offered Tunisian authorities significantly discounted 25
26 prices in exchange for software testing and bug-tracking, asserting that "the 26
27 Internet Agency has extracted itself from these partnerships and thus can no longer 27
28 afford to censor, even if they wished to" (Messieh 2011). 28

29 According to Saadaoui, Internet traffic under the Ben Ali regime was routed 29
30 through surveillance equipment maintained and operated by ATI, monitored 30
31 by the INT, and evaluated for content by the Ministry of the Interior. Under 31
32 ATI's oversight, the surveillance equipment and software was (and allegedly 32
33 remains) physically hosted in three separate Tunis-area facilities of the state 33
34 telecommunications carrier, Tunisie Telecom. Monitoring reportedly occurred 34
35 separately in a closed facility, operated by the INT, in which staffers would review 35
36 traffic and forward "suspect" communications to the Ministry of the Interior for 36
37 further investigation (Silver 2011). 37

38 Saadaoui also confirmed the capacity of the three Tunisian mobile network 38
39 operators for monitoring mobile traffic, including voice and data. Traffic was 39
40 reportedly monitored by specialized teams at undisclosed sites within the Ministry 40
41 of the Interior, with additional capacity at the presidential palace complex (Silver 41
42 2011). While "lawful interception" systems for mobile traffic are a common feature 42
43 of mobile networks worldwide, there is no evidence that the use of interception 43
44 44

1 technology under the Ben Ali regime was subject to due process, placing such 1
2 surveillance in the realm of “mass interception.” 2

3 Since the revolution, Chakchouk has claimed that ATI was only the technical 3
4 executor for censorship and surveillance, and that the agency did not play a 4
5 role in deciding what content to filter or which citizens to monitor (Ryan 2011). 5
6 Chakchouk stated that orders would have likely come from the ministries or the 6
7 presidential palace and that, following the revolution, ATI did not have records of 7
8 these instructions. While acknowledging its role in implementing censoring and 8
9 filtration, the ATI has further denied its involvement in surveillance of Tunisian 9
10 citizens, and stated that it has no access to any surveillance files. Bloggers have 10
11 given some credence to this narrative, placing blame with unknown “cyberpolice”; 11
12 however no records of this function have been made public (Ryan 2011). 12

13 In the period since the fall of the Ben Ali regime, there is little confirmed 13
14 information about the continued use of surveillance. It is widely assumed by 14
15 Tunisian activists and Internet observers alike that the Tunisian government 15
16 maintains surveillance capacity and continues to use it at will (Silver 2011). The 16
17 new government has not made public statements about the role of surveillance, 17
18 nor is there publicly available information about the use of surveillance on mobile 18
19 networks, whether by government or compliant mobile network operators. ATI has 19
20 stated that although it continues to host Tunisia’s known surveillance equipment, it 20
21 no longer plays an active role in mass surveillance (Ryan 2011). 21

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24 **Testing the Limits of Openness** 24
25 25

26 Although the Tunisian Internet is more open and free than at any point since its 26
27 introduction in 1999, these gains remain fragile. Operating conditions in late 2012 27
28 are the result of a patchwork of elective and unofficial policies instituted and 28
29 maintained by key leadership in select institutions, many drawn from the former 29
30 ranks of IRSIT. Among Tunisian citizens, no coherent norms have emerged; while 30
31 there are many vocal proponents of the open Internet, many others continue to call 31
32 for the blocking of “offensive,” “harmful,” or “insulting” content. 32

33 The first test of the Tunisian Internet’s openness occurred in May 2011, four 33
34 months after the revolution, when the Ministry of National Defense received an 34
35 order from the Magistrate of the Permanent Military Tribunal ordering the ATI to 35
36 block five Facebook pages accused of insulting the military and promoting violence 36
37 (Abrougui 2011). On its official website, the Ministry of National Defense stated, 37
38 “some citizens have deliberately created personal pages on the World Wide Web 38
39 in an attempt to damage the reputation of the military institution and its leaders by 39
40 the publishing of video clips, the circulation of comments, and articles that aim 40
41 to destabilize the trust of citizens in the national army and spread disorder in the 41
42 country.” 42

43 ATI resumed filtering, and those attempting to access the pages over an 43
44 unencrypted Facebook session received the following message: “Cette page web 44

1 a été filtrée en application d'une réquisition émanant du Juge d'instruction auprès 1
 2 du Tribunal Militaire Permanent de Tunis." ("This webpage is filtered under 2
 3 requisition from the Judge for the Permanent Military Tribunal of Tunis.") In 3
 4 parallel ATI launched filtrage.ati.tn, listing all blocked sites with the official or 4
 5 legal justification for their censorship. Despite this attempt at transparency on the 5
 6 part of ATI, Internet activists condemned the resumption of filtering, noting with 6
 7 concern the application of censorship without due judicial process. A short time 7
 8 later, the ATI quietly discontinued filtering these five sites, claiming insufficient 8
 9 capacity (Abrougui 2011b). 9

10 On May 19, 2011, three lawyers lodged a complaint against the ATI, seeking 10
 11 the institution of a ban on pornographic websites. Citing negative 'psychological, 11
 12 physiological, social, and educational effects' on children and Muslim society, 12
 13 they secured a court order directing ATI to resume filtration of pornographic sites 13
 14 (Al Arabiya 2011). On 26 May 2011, in Case No. 2011/99325, the presiding judge 14
 15 of the Court of Appeals of Tunis issued an execution order for ATI to resume 15
 16 filtration on the basis of the plaintiffs' arguments. ATI submitted a petition to the 16
 17 Court of Appeal of Tunis, citing technical incapability due to diminished capacity. 17

18 On June 13, 2011, the presiding judge denied the ATI's request for a stay of 18
 19 the order, and on June 14, the agency resumed filtration of "offensive content," 19
 20 but limited filtering to national ISPs for government agencies, military, and 20
 21 universities. On August 15, following a series of hearings, the appellate court 21
 22 judge found in favor of the 26 May decision against ATI. As a final effort, ATI 22
 23 announced its intent to appeal the case at the Court of Cassation, Tunisia's highest 23
 24 court. Following a series of deferred decisions, the Court of Cassation found in 24
 25 favor of ATI, returning the case to the Tunis appellate court for reconsideration. At 25
 26 time of publication, the case had not been decided. 26

27 Since the fall of the Ben Ali regime, the interim government of Tunisia has 27
 28 passed a series of laws intended to reform the country's restrictive press and media 28
 29 laws. Notably, none of the relevant new legislation (DL Nos 2011-10/41/115/116) 29
 30 explicitly address digital communications, whether Internet or mobile. Areas 30
 31 that remain unclear include what protections are afforded to bloggers and 31
 32 citizen journalists, the creation of a framework for digital publishing liability 32
 33 (intermediary or otherwise), mobile and Internet subscriber data privacy, minimum 33
 34 legal standards for government requests to service providers for subscriber data, 34
 35 and provisions for lawful interception. 35

36 On November 2, 2011, the Constituent Assembly passed DL Nos 2011-115/116 36
 37 regarding media and the press. This legislation represented long-overdue reforms 37
 38 of the 1975 Press Code (updated in 2006), which contained key articles prohibiting 38
 39 the press from publishing government legal documents, publishing "false news," 39
 40 or publishing content deemed to be in breach of "public order." These articles, 40
 41 along with a 1997 presidential decree granting the Ministry of Communications 41
 42 the authority to monitor for "compliance" and establishing harsh punishments for 42
 43 visiting "dangerous" websites, were often used to justify crackdowns on bloggers. 43
 44 44

1 However, the legislation did not explicitly define its scope in relation to the 1
2 Internet, raising concerns among digital activists. 2

3 On September 6, 2012, at the annual meeting of the Freedom Online 3
4 Coalition—a conference of governments committed to Internet freedom as a 4
5 matter of policy—Dr Moez Chakchouk announced that Tunisia would join as 5
6 the first Middle Eastern country in the coalition. This announcement marked 6
7 the first official shift in Tunisian government policy; in the year and a half since 7
8 the revolution, Tunisia had not seen any introduction of new legislation, revised 8
9 regulatory statute, or judicial precedent that would institutionalize Internet freedom 9
10 as a matter of national law and practice. However, despite these changes, many 10
11 Internet activists in Tunisia remain skeptical, believing past monitoring practices 11
12 remain in practice (Samti 2011). 12

13 The protests that began in December 2010 and culminated with the January 13
14 14, 2011 ouster of President Zine El Abidine Ben Ali revealed the prevalence 14
15 and sophistication of state systems of control over Tunisia’s communications 15
16 infrastructure. The oversight of the Internet by the Ministry of Communications 16
17 Technologies was literal, and the ATI, keeper of the country’s Internet backbone, 17
18 was among the most loathed, feared, and corrupt government institutions. With 18
19 technical support from the West, Tunisia blocked great swaths of the Internet and 19
20 spied on its citizens. The Tunisian Internet, born at the hands of the country’s 20
21 elite engineers and promoted throughout the country as a tool for economic 21
22 empowerment, became a battleground between activists seeking greater freedoms 22
23 and their government oppressors. 23

24 If the actions of the state to control and dictate the content of the Tunisian 24
25 Internet were an effort to assert network-making power—the ability to program 25
26 the network for its assigned goals—then the emergence of a coordinated and 26
27 resilient cadre of Tunisian online activists was the ultimate assertion of active 27
28 reprogramming of that goal, or counterpower. As activists responded to the 28
29 Tunisian government’s imposition of filtration and coercive social controls on the 29
30 Internet by eroding and circumventing those controls, they subverted the network 30
31 for an altogether different purpose. The efforts of the Tunisian state to forcefully 31
32 narrow the purpose of the network to a tool for economic growth and personal 32
33 enrichment was met by a response that sought to reinforce the network as a tool 33
34 for countering regime hegemony. 34
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Chapter 2

The State of Digital Exception: Censorship and Dissent in Post-Revolutionary Iran

Babak Rahimi

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12 Integral to authoritarian regimes is the multifaceted employments of various 12
13 measures to manage, control and reshape the public sphere, as spaces of 13
14 association identified with contentious activities. Inclusive of these measures are 14
15 the regulative mode of performances to limit contention, including expressions and 15
16 interactions of civic associations in the public deemed subversive by the state, and 16
17 also proactive modes of performance that set frames of action for limited dissent 17
18 to be freely expressed only within the defined frames parameters of discourse 18
19 or practices sanctioned by the state. The second type of measures characterize 19
20 deliberative practices that direct discussions or debates and construct new public 20
21 forums that set defined frames for public discourse that ultimately stabilize 21
22 authoritarian rule. Known as “authoritarian deliberation,” such measures, at times 22
23 subtle and indirect, are popular among states such as China where there is a strong 23
24 claim for populism of revolutionary brand as a way to legitimize state power (He 24
25 2006; Perry 2007). Yet behind the façade of popular sovereignty associated with 25
26 democracy is an authoritarian structure that governs through a complex regulative 26
27 and surveillance regime. 27

28 There are also exceptional cases in the delicate balance between regulative 28
29 and proactive measures that requires other, extraordinary measures for control. 29
30 How can order and legitimacy be preserved at sensitive moments when the state 30
31 maintains the least control over its population or its territories? Carl Schmitt, the 31
32 German political theorist and the ideologue of the Nazi state, described the use 32
33 of alternative measures in the legal terms of “state of exception,” as the moment 33
34 when the sovereign authority can decide when to transcend the legal boundaries 34
35 to reconstitute order in the name of common good. Violence in its extra-judicial, 35
36 unregulated form can enable a sovereign to suspend all laws in order to ultimately 36
37 restore them (Schmitt 1985, 13).¹ But more important than the power to decide is 37

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40 1 The suspension of law does not mean a state of lawlessness, but a special claim to 40
41 legal authority by the state. Schmitt explains “What characterizes an exception is principally 41
42 unlimited authority, which means the suspension of the entire existing order. In such a 42
43 situation it is clear that the state remains, whereas law recedes. Because the exception is 43
44 different from anarchy and chaos, order in the juristic sense still prevails even if it is not of 44
the ordinary kind” (Schmitt 1985, 13).

1 the moment of suspension when the state with the claim over organized violence 1
2 can exert authority with extraordinary force. Networks of communication serve 2
3 as powerful sources of organization and mobilization for both state and non- 3
4 state actors, and historically during critical times various media outlets have 4
5 been entirely shutoff as a way to restore power back to the state.² Now there is 5
6 a tantalizing puzzle here and that is when and why states, in particular modern 6
7 authoritarian types that increasingly depend on information communication 7
8 technologies, disconnect digital communication. And do such operations in what 8
9 can be called states of digital exception strengthen state power? 9

10 This chapter investigates the Iranian state's patterns of media censorship, in 10
11 particular the exercise of specific measures of blocking Internet access and disabling 11
12 digital networks. As a case study, it examines the 2009 post-election unrest in Iran 12
13 and studies specific incidents when and why the government interfered to disable 13
14 digital network, particularly the Internet, satellite and phone networks. It also 14
15 examines the shared perceptions of activists who used digital media and online 15
16 social networking for mobilizing street protests in the weeks following the June 16
17 12, 2009 elections. The main argument here is that the Iranian state preemptively 17
18 and selectively disabled a range of significant interactive means of communication 18
19 (e.g. online social media) and land-base and mobile technologies on the day and, 19
20 sporadically on the day of protests, weeks after the elections. This was done as a 20
21 means to prevent the activists of dissident actors, particularly the bridge-makers or 21
22 digitally savvy activists (mainly students and civil society activists), who heavily 22
23 relied on digital network connectivity for offline mobilization during and after the 23
24 elections. Amid the shutting off operations, there were also a number of selective 24
25 surveillance digital operations that enabled the intelligence services to identify 25
26 protesters and monitor information online. 26

27 The 2009 election protests represent one of the most wired of all political 27
28 events in the history of the Islamic Republic. With the Iranian security apparatus 28
29 fully aware of state-led communication infrastructural developments, together 29
30 with demographic and urban transformations, since early 2000s, the preemptive 30
31 move to shut off the flow of information on the day of elections, and the days that 31
32 followed, involved the direct involvement of the intelligence units of the Iranian 32
33 Revolutionary Guard Corps (IRGC) and other security agencies to interrupt a 33
34 range of social media communication, excluding national information such as 34
35 radio broadcast and TV. But the temporal and selective patterns of intervention 35
36 were only based on a short-term tactical move, as the street protests were unfolding 36
37 amid crackdowns on street protesters. As the social media lines, including mobile 37
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39 _____ 39
40 2 Such practice are not exclusive to authoritarian states, as democracies too employ 40
41 shutdown measures, as in the cases of British government contemplating shutting off 41
42 mobile services during the summer 2011 riots. The case of the Patriot Act under the Bush 42
43 administration also carried the potential for disabling the flow of information in case of an 43
44 act of terrorism. For the case of democracies shutdown of digital networks, see Howard and 44
44 Hussain 2013. 44

1 texting, came back to operation in the weeks after the June elections, the long-term 1
 2 strategic was aimed as a way to gather, share and circulate information about the 2
 3 protesters and offline centers of dissident activities. The combined use of measures 3
 4 from hard (i.e. shutting down information technologies) to soft (i.e. surveillance 4
 5 practices) highlights the capacity of the Iranian state that is increasingly dependent 5
 6 on information technologies to consolidate control over the social media sphere. 6
 7 Even with the implementation of various regulative and proactive measures, 7
 8 including the capacity to disable Internet access and digital networks, the Islamic 8
 9 Republic faces major challenges with the expansion of social media networks as a 9
 10 socio-cultural phenomenon of irreversible trajectory. 10

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12

13 **Evolution of Iran's Digital Censorship Regime** 13

14

15 The 1979 revolution that brought to power the first theocracy in modern times 15
 16 marked a utopian project with immense social and political consequences. The 16
 17 Islamist imaginary of the Shia brand saw the Islamic Republic, based on the 17
 18 ideology of *Velayat-e Faqih* (Guardianship of the Jurist), as a radical expression 18
 19 of an Iranian political modernity that would fuse religion and a modern polity with 19
 20 nativist ideals of autonomy and freedom from Western dependency, in particular 20
 21 scientific knowledge and technological advancement. Iran's military conflict with 21
 22 Iraq during the 1980s prevented the coherent institutionalization of such (Shia) 22
 23 Islamist utopian project. The emerging factional politics of the early revolutionary 23
 24 period, largely a result of the "hybrid" democratic and authoritarian institutions 24
 25 of the state, also marked a period of political instability. Nevertheless, the 25
 26 developmentalist policies of the Pahlavi regime continued to expand along with 26
 27 the growth of the cities and industrialization and spread of educational institutions 27
 28 in the provinces, entailing a significant social transformation in the postwar period 28
 29 (Ehsani 2009). 29

30 With the reconstruction (*baz-sazi*) and construction policy (*jihad sazandegi*) 30
 31 phase under the presidency of Hashemi Rafsanjani (1989–1997), new state- 31
 32 building patterns and institution buildings emerged with an emphasis on 32
 33 empowering the middle class in developments of education, consumerism and 33
 34 strengthening of the urban policy. Certain social restrictions were relaxed, in 34
 35 comparison to the war period, as the government and the growing private sector 35
 36 heavily invested in the higher education, giving rise to Islamic Open universities 36
 37 which opened up new opportunities to a growing young generation as a result of 37
 38 changing demography. The training of a new technocratic and scientific community 38
 39 emerged during this period, as new technological advancements in industrial, 39
 40 medical and especially computer sciences began to change the way government 40
 41 would manage the post-revolutionary Iranian society. The manufacturing and 41
 42 research with computer technology, as the most important symbol of scientific 42
 43 modernity, had already been in use at highly specialized institutions such as the 43
 44 College of Computer Programming and Application and Institute for Research in 44

1 Communications in the early half of the 1980s (Mohammadifar 1992). However, 1
2 the marketization of computer technology was initiated under the auspices of the 2
3 Rafsanjani administration, as the first Persian-text software was developed in 1991 3
4 (Mohammadifar 1992). Along with Israel and Turkey, Iran was one of the earliest 4
5 countries to incorporate computer technology into its developing economy. 5
6 The combined privatization of universities, together with the demand for 6
7 advanced technologies and scientific studies, in particular computer-mediated 7
8 research, matched the structural transformation of the Iranian economy. 8
9 Rafsanjani's economic policies had wide-ranging consequences that included 9
10 domestic growth of the private sector and significant urban developments, along 10
11 with the devolution of administrative centers to the provinces (Ehsani 1999). The 11
12 liberalization policy in particular generated greater demands for the global market 12
13 and the strengthening of consumerist culture, which defined the decade prior to 13
14 the 1979 revolution. In correlation with the rise of consumerist society, by the 14
15 1990s an emerging market for digital technology ushered a new age of information 15
16 communication in Iran, as it did in the United States and Europe. 16
17 The Internet first appeared within the higher educational sphere in the postwar 17
18 period. Between 1992 and 1993, Iran's first Internet connection was initiated by 18
19 the Institute for Studies in Theoretical Physics and Mathematics and later in the 19
20 expanded in the educational and business centers (Farivar 2012; Rahimi 2008). By 20
21 the early 1990s other ICTs like facsimile and mobile technologies also made their 21
22 way into the Iranian domestic market, albeit some were deemed as potentially 22
23 dangerous by the state. Satellite TV in particular was the most problematic in this 23
24 expanding digital environment. Like the underground market of VCR cassettes 24
25 in the 1980s, satellite presented a new challenge to the regime, as a stream of 25
26 oppositional channels aired from outside of the country (Khosravi 2008). Satellite 26
27 was first banned in 1995 just four years after satellite dishes began to appear on the 27
28 rooftops of northern Tehran. But the ban did not inhibit the popularity of emerging 28
29 communication technologies like mobile phones, which served as both a useful 29
30 means of everyday communication, especially text messaging, and a symbol of 30
31 social status for a youth culture that increasingly demanded participation in the 31
32 consumerist global market. By the late 1990s the rise in the number of mobile 32
33 users, similar to Internet, had dramatically increased to millions (Sreberny and 33
34 Khiabany 2010). 34
35 The economic and social transformations of the Rafsanjani period however 35
36 entailed a political side as well. With the government relaxing social spaces, new 36
37 critical political discourses emerged from the growing Iranian middle-class with 37
38 daring demands for reforms. The presidential election of 1997 that marked the 38
39 victory of the reformist cleric, Mohammad Khatami, was a result of cross-section 39
40 of civic associations, activists, students and workers who sought to overturn the 40
41 overwhelming influence of the conservative leadership. With the reformist victory, 41
42 post-revolutionary Iran saw the production of alternative newspapers, books 42
43 and video recordings of dissident intellectuals and reformists who bolstered an 43
44 unofficial public sphere, one that was not sanctioned by the state nevertheless 44

1 operative as a dissident digital public. With new communication technologies 1
 2 rapidly entrenched in everyday life of younger Iranians, the new activists also 2
 3 began to use Internet and other digital technologies to express views that would be 3
 4 normally prohibited in the face-to-face public life. 4

5 In reaction to suppression of the print media by the conservative faction based in 5
 6 the judiciary and security forces, political reform entered a new stage of opposition 6
 7 in that it increasingly took refuge in new media outlets as a way to circumvent 7
 8 censorship. Internet became the most popular forum of communication, as a way to 8
 9 express critical views or make accountable state activities in its previous treatments 9
 10 of opposition and management of economic and social change. Online news sites 10
 11 provided the first instances of a post-print media culture that circumvented print 11
 12 media restrictions imposed by the judiciary. 12

13 The state reaction to regulate the new technology was gradual and not 13
 14 necessarily effective—and also marked with key learning moments. Four stages 14
 15 may be underlined in the case of Internet. The first stage, from 1999 to 2004–5, 15
 16 focused on regulative practices such as blocking, filtering and Internet service 16
 17 governance that targeted Internet Service Providers as a way to outsource control 17
 18 over content and interaction online (Gheytanchi and Rahimi 2008; Rahimi 2008; 18
 19 Sreberny and Khiabany 2010). In what Guobin Yang calls the “mediatization of 19
 20 the Internet” many regulative practices that were implemented over the Internet 20
 21 revolved around previous laws applied to mass media (Yang 2009).³ This could 21
 22 be perhaps explained in light of the state’s initial inability to define the Internet, 22
 23 as it first began to be used in the educational sphere, and hence perceived as 23
 24 “scientific,” rather than the media domain with potential political implications. 24
 25 Since the early reformist period under Khatami’s presidency, Iranian Internet users 25
 26 have experienced several mediatization initiatives. The most important one was 26
 27 the comprehensive set of decrees ratified by the Supreme Council of the Cultural 27
 28 Revolution (SCRC) in 2001 that imposed a more centralized system of regulative 28
 29 frameworks through the employment of filter systems by the ISPs (Deibert, Palfrey, 29
 30 Rohozinski and Zittrain 2010). The implementation of other regulative measures 30
 31 also involved the 2006 reduction of Internet speed to 128 kilobits per second as 31
 32 a reaction to the emerging social media sites that enabled users to download and 32
 33 forward photos and videos online. 33

34 The second stage, from 2004/5 to 2008, identified the digitization of governance 34
 35 and rise of e-commerce in the Iranian economy. Electronic governance identifies 35
 36 the first instances of proactive measures to promote and legitimize the state 36
 37 through effective governance and shape the online landscape with its presence. By 37
 38 mid-2005 Iranian e-governance became widespread involving the creation of new 38
 39 public-administrative provisions that ranges from embassy, library to passport and 39
 40 tourist services (Beygijanian and Richardson 2008). E-commerce too, in particular 40
 41 41

42 ³ The Press Law of 1986 served as the principle legal source for the early regulation 42
 43 of the Internet, followed by the 2000 amendment to the Press Law, a reaction to the growing 43
 44 dissident activism in the print media. 44

1 in the banking sector, has served as a way to both provide financial efficiency and 1
2 also legitimacy for the state, seeking to keep pace with the burgeoning public 2
3 sector and the consumerist society in the late Khatami period. 3

4 The third and fourth stages, from 2008/9 to present, coincide with the growing 4
5 clout of the Iranian Revolutionary Guard Corps (IRGC) over the political sphere 5
6 and the security apparatus of the state, which began with the conservative 6
7 consolidation over the legislative and executive office between 2004 and 2005. 7
8 The 51 percent takeover of the Telecommunication Company of Iran by Mobin, 8
9 an IRGC-dominated private company, and the establishment of “Cyber-crimes” 9
10 units in 2009, set the stage for a new regulative framework. Toward the end of 10
11 Mahmoud Ahmadinejad’s first term in 2008 and with the 2009 elections and the 11
12 social upheaval that erupted in reaction to the allegedly rigged elections, the Islamic 12
13 Republic underwent in what Farideh Farhi has called a “securitization” phase, an 13
14 elevated security-conscious system of governance with the aim of establishing a 14
15 complex network of surveillance and intelligence-gathering for control over the 15
16 public sphere (Farhi 2010). IRGC, responsible for national security and the ideals 16
17 of the revolution, has been the leading state organ, using various surveillance 17
18 technologies for identifying dissidents on the Internet and mobile phone. As I have 18
19 argued elsewhere, securitization however should be viewed as an aspect of a new 19
20 kind of militarization dynamic within the regime apparatus, which heavily relies 20
21 on a network of intelligence and informational sharing with an emphasis on “soft 21
22 power” to tackle various threats, especially domestic ones (Rahimi 2012). 22

23 The rhetoric of “soft war” emerged just months after the June 2009 elections 23
24 and its focus was to create new cultural and public institutions that would 24
25 implement diverse disruptive, coordinated and co-optive efforts through, in words 25
26 of Price, “information-related measures” to undermine the foreign-directed media 26
27 initiatives and seek to disintegrate the “value” system of the country, the moral 27
28 order, from within. (Adelkhah 2010; Price, 2012; Akhavan, 2014). The strategy 28
29 of soft war aimed to reframe the regulative media policies into an aggressive 29
30 “psychological operation” and, in terms of new cultural practices, promote 30
31 perception of soft revolution from the outside and the need to safeguard the 31
32 native culture through creative media practices. Reflecting the multifaceted media 32
33 environment in the post-election era, Iran’s digital-control regime showed how 33
34 it can change with the political situation. In light of new securitized measures, 34
35 the discourse of soft war emerged as the most intriguing deliberative strategy to 35
36 stifle dissent in the emerging communication media such as mobile and Internet, 36
37 where the state continues to have difficulty maintaining full control, in contrast to 37
38 broadcast media such as radio or the national TV. 38

39 Finally, the launch of the “Fifth Five Development Plan of the Islamic 39
40 Republic of Iran (2010–2015)” marks the fourth stage in the regulative process 40
41 over cyberspace. The creation of a “national information network” with the 41
42 official aim of promoting e-governance and increase in productivity in economic 42
43 and cultural programs primarily serves as a security strategy to form a closed 43
44 network and isolate Iran’s Internet users from the global Internet sphere (Anderson 44

1 2012). Such closed national computer network should be viewed in light of the 1
2 increasing securitization of the Islamic Republic to protect online governance 2
3 from hacktivism and establish a more effective online surveillance regime. Yet 3
4 the creation of a closed national Net could also reflect the need to maintain a 4
5 stable Internet service for government and business sector when the state decides 5
6 to shutdown the regular Internet that is connected to the world, as a way to 6
7 implement greater control over cyberspace, especially in the way it could shape 7
8 street protests. 8

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11 **The Shutdown under a Crisis State** 11

12

13 The June 2009 elections changed the Islamic Republic into what Howard has called 13
14 a “crisis state”—a destabilizing political experience of transition or turmoil caused 14
15 by internal or external conflict (Ansari 2010; Howard 2010: 74). Though certainly 15
16 not Iraq or Somalia, the election chaos caused by a popular perception of malpractice 16
17 over the voting results that favored the incumbent president, Ahmadinejad, pushed 17
18 the theocratic regime closer to the edge of a major crisis of political legitimacy 18
19 with the breakdown of governance over civic life and state management over the 19
20 public sphere. The Iranian Green movement, a socio-political opposition current 20
21 described as a “civil rights” movement by Hamid Dabashi compromises a new 21
22 generation of activists who integrated new communication technologies in their 22
23 contentious activities (Dabashi 2010). While the Internet, in particular popular 23
24 sites like Facebook, Balatarin, a popular Persian-language social site, and Twitter, 24
25 together with mobile phone, were already in use during the election campaign 25
26 season, the new media served as a distinguishing aspect of the post-election street 26
27 protesters, as the activists recorded, circulated, spread and aesthetically exposed 27
28 state corruption, deception, brutality and by and large the authoritarian character 28
29 of the regime in digital space (Gheytnchi 2010; Rahimi 2011). For nearly two 29
30 months after the elections, the streets of Tehran and other major Iranian cities 30
31 were in a state of strife, bringing the state to apply a combined set of hard and 31
32 soft measures to stifle growing dissent with the blessing of the Supreme Leader, 32
33 Ayatollah Khamenei, who had publically supported Ahmadinejad during the 33
34 elections and later ordered the arrest of Mir-Hussain Mousavi and Mehdi Karoubi, 34
35 the two opposing candidates. 35

36 Despite warnings of a “Velvet Revolution” of eastern European style by the 36
37 IRGC weeks prior to the elections (Peterson 2010), the regime’s security apparatus 37
38 were taken off-guard by the sheer size of the crowd and, more importantly, the 38
39 new tactics used by the activists. Footages of the street demonstrations and scenes 39
40 of security forces brutality against the unarmed demonstrators first appeared on 40
41 social media sites, and eventually (and rather quickly) found their way to satellite 41
42 TV news channels like Al-Jazeera and CNN International. They served as a major 42
43 threat to the official image that the state wanted to portray about the elections, as 43
44 a popular and the most uncontested aspect of Iranian political life. BBC Persia, 44

1 launched on January 2009, played a critical role in bringing “i-reports,” produced 1
 2 by the activists on the ground, from the streets back to Iranian homes, as millions 2
 3 watched the protests unfold after the elections through non-state televised media. 3
 4 When Neda Agha Soltan was killed on June 20, the video footage was first posted 4
 5 on Facebook, then immediately posted on YouTube and in hours picked up by 5
 6 Al-Jazeera and CNN International (Rahimi 2011b). 6

7 In light of major transformations over censoring and the policing regime, 7
 8 designed over the years since 2001, various security agencies within different 8
 9 branches of government led by IRGC engaged in a combination of measures to 9
 10 push back dissident activities in the digital domain. The most obvious to the pro- 10
 11 Mousavi supporters was the outage of mobile services, in particular text messaging 11
 12 services, and the Internet hours before the day of elections, June 12, which 12
 13 continued to the morning (Enayat, Smith, Wojcieszak 2012; Mackinnon 2012).⁴ On 13
 14 the day of elections Internet access was so slow that it made it almost impossible 14
 15 to check or send email. In the weeks following the elections, during the days when 15
 16 Mousavi would call out his supporters to storm the streets to demonstrate, Yahoo 16
 17 messenger and other chat-room like services would be shutdown, while regular 17
 18 online news sites, permitted by the state, would be available.⁵ Facebook, though 18
 19 unblocked in February of that year, was blocked from the day of elections onwards. 19
 20 Landlines were operational, but mobile services were severely limited during day 20
 21 times and late into the night, when the assumption was that next day organizations 21
 22 by activists would take place. At night, especially during the crucial hours when 22
 23 protesters chant anti-government slogans on rooftops, most Internet services 23
 24 would be either shutdown or considerably slowed down. During the critical days 24
 25 of protests, major satellite channels, in particular BBC, CNN International and 25
 26 VOA Persian, would experience electronic signal jamming. During the critical 26
 27 days of protests, major satellite channels, in particular BBC, CNN International 27
 28 and VOA Persian, would experience electronic signal jamming. This was the case 28
 29 when there would be a report on the Iranian turmoil. In many ways, the jamming 29
 30 practice was selective and hardly comprehensive in scope, as number of state- 30
 31 funded channels like Press TV and Al-Alam are also aired on satellite TV. 31

32 Along with physical attacks on Mousavi campaign offices, other measures were 32
 33 also used (Yahyanejad and Gheytauchi 2012). Based on field observations, and as 33
 34 Howard has noted, later in the afternoon on the day of elections, as reports of 34
 35 protests in central Tehran began to emerge, Internet access was completely disabled 35
 36 for nearly an hour by the Data Communication to begin the process of “deep 36
 37 packet” inspection system, which pushed off Iran from the global communication 37
 38 channels for nearly a day (Howard 2010: 6). The surveillance regime was mostly 38
 39

40
 41 4 The shut off was not however comprehensive as universities and many businesses 40
 42 continued to have access to service. Also, mobile services were down mostly around 41
 43 specific geographical areas where Karoubi and Mousavi’s campaign centers had a major 42
 44 concentration. 43

44 5 Field work observation, Tehran, Iran June, 2009. 44

1 effective over mobile communication, as reports of arrest bespeak of prisoners 1
2 describing transcribe copies of their conversations over the cell. The surveillance 2
3 of Facebook activism is also noteworthy, as the social networking site saw a rise 3
4 of Iranian users in the pre-election period. The most creative measure was the 4
5 propaganda mechanism of overtly guiding the direction of debate by spreading 5
6 rumors and conspiratorial theories in favor of the government helped slow 6
7 down the momentum of the movement (Rahimi 2011a). In what can be called 7
8 the camouflaging tactic, members of IRGC, which also include the Basij, while 8
9 pretending to be Mousavi supporters, would engage with social media sites to 9
10 change the directions of street protests, relying on the decentralized organizational 10
11 aspect of the new media to inject rumors or new discourses, sometimes of highly 11
12 violent nature in order to confuse the discussions or norms of actions over how 12
13 best to tackle brutality by the security forces. 13

14 This last feature also brought to full view a new measure already in use by 14
15 the Chinese state. The 2008 call by the IRGC to recruit Basiji militias to populate 15
16 the blogosphere resembles the Chinese “Internet commentators,” as an online 16
17 community on the government’s pay role and first used in 2004 (Sreberny and 17
18 Khiabany 2010; Rahimi 2011a; Yang 2009). The idea behind the pre-election 18
19 project was to offer alternative, “Islamic” social media sites to blogs and popular 19
20 networking sites such as Facebook and Balatarin. The launch of the Velayatmadaran 20
21 social site provides the best example of such initiative, which was perceived as 21
22 part of the state’s attempt to manage the virtual domain of interaction. The hacking 22
23 and defacing of opposition websites also appeared in correlation with the state’s 23
24 growing use of the discourse of “soft war” in late summer of 2009. To the IRGC, 24
25 in charge of protecting the Islamic Republic, the state now faces a new threat and 25
26 that is the new media as the West’s most covert attempt to initiate a color coup. In 26
27 response, the Iranian government reframed the crisis in terms of a foreign-led coup 27
28 and emphasized the idea of soft power as the best way to challenge the West’s 28
29 psychological warfare. 29

30 As the censorship regime managed to limit, at least on a short-term basis, the 30
31 momentum of the Green Movement, and in some respects hinder its street influence 31
32 by imprisoning key activists in the movement, the opposition also found ways to 32
33 evade restrictions. One central problem was the diverse ways dissidents would 33
34 use alternative ways to have access to digital media, and subsequently challenge 34
35 the state’s propaganda machinery. For instance, in the case of Internet, some users 35
36 with access to business accounts with higher speed of connection would post short 36
37 video clips on YouTube, or hand over USB flash drive with recorded footages 37
38 or photos to friends or family members travelling to United Arab Emirates and 38
39 Turkey, where large Iranian Diaspora communities reside. Many students activists, 39
40 realizing university online services would be too risky, would particularly use the 40
41 business outlet to have better access to the Internet. Proxy servers and RSS services 41
42 also played a role, as activists would hack or engage in distributed denial of service 42
43 attacks (DDoS) to disrupt government’s websites including Ahmadinejad official 43
44 website (Rahimi 2011a). There was also the problem of effectively creating 44

1 alternative social media sites to tackle Facebook and YouTube. Velayatmadaran 1
2 was shut down months after it was launched primarily because the pro-government 2
3 users were too busy using Facebook for social interaction. Also, total shutdowns 3
4 of online services would cause major problems for governance, as the economy 4
5 by 2009 had become considerably dependent on digital transactions, especially in 5
6 the banking sector. Though several attempts were made during critical political 6
7 events, there were no total shutoff moments, only selective ones that mostly 7
8 revolved around consumer rather than business services. This played a critical role 8
9 for the dissidents to break through the rare states of exception and make digital 9
10 communication possible on both local and global scales. 10

11

12

13 **Conclusion** 13

14

15 This chapter has examined the current censorship trends in the Iranian digital 15
16 media environment, with a focus on the Internet for the management of the public 16
17 sphere and contentious politics. While ICTs necessarily undermine authoritarian 17
18 power, as the case of Green Movement in post-election shows, they also do not 18
19 necessarily empower them either. The advantage of ICTs is in the capacity to 19
20 provide a forum for the circulation of information, new discourses and social 20
21 imaginaries that would ultimately legitimize and bolster state power and in a 21
22 socio-political context out of which various forms of governance are maintained. 22
23 The disadvantage, however, is primarily about the inability of a networked state, 23
24 increasingly governing through digital communication, to entirely undermine the 24
25 digital networks that operate, interact and communicate in the public domains 25
26 of social media environments. The appropriation of technology for power is 26
27 especially ineffective when the state's faction-ridden political process, as in the 27
28 case of Iran, is enhanced, mostly as a result of changing elite realignments, or as 28
29 its power center(s) develop toward an unanticipated direction in shifting spheres 29
30 of intra-state contestation. Iran represents another example of digital state that 30
31 has failed to entirely set the parameters of governance over digital media and the 31
32 information infrastructure. 32

33 Technologies can fail and so do authoritarian spheres of influence to exert 33
34 power, especially during states of exception when a polity undergoes a crisis 34
35 of legitimacy. As the case of Hallal Internet shows, the formation of a national 35
36 network as a form of governance over the Internet may carry numerous challenges, 36
37 including mundane technical ones. Equally important is the role of infrastructural 37
38 conditions and, more importantly, shifting contexts of global and local networks 38
39 through which social movements become possible. The degree of transnational 39
40 ties and technological diffusion in a country, such as Iran, always carries the 40
41 element of surprise in dissident mobilization. In this sense, the level of digital and 41
42 network organization and how entrenched ICTs are in everyday life determines the 42
43 failure or success of authoritarian power and resistance to it. In this regard, it is in 43
44 the unforeseen opportunities in the broader landscape of political contention that 44

1 enable authoritarianism to either succeed in its efforts to control or succumb to the 1
2 opposition's demands for reform or total change. 2
3 With the presence of a vibrant dissident political culture since 2009 elections, 3
4 especially pervasive in the new media sphere, the evolving Iranian state, with 4
5 its distinct securitization trajectories since the 2005 election of Ahmadinejad, has 5
6 largely succeeded to curtail oppositional activism on the street level, but failed to 6
7 prevent the growth of dissent within digital networks. In this sense, the Iranian 7
8 state recognizes the significance of network technologies and overall information 8
9 infrastructure that enable activists to organize and mobilize contentious 9
10 performances at opportune moments. During the 2013 presidential election, the 10
11 state was more prepared in the implementation of several shutoff strategies ahead 11
12 of the election day. While weeks before elections the state slowed down the speed 12
13 of Internet, the afternoon before and on the election day most websites, especially 13
14 email servers like Yahoo and Gmail, were either considerably slowed down or 14
15 shutoff.⁶ On June 16, just minutes after the Iranian football team won a critical 15
16 game in order to qualify for the World Cup, the Internet was again shut down, as 16
17 Iranians took to the streets and celebrated the victory of the national team.⁷ While 17
18 there were no anti-government street protests in 2013 elections, the strategic 18
19 move to disable the Internet ahead of elections and the football match shows how 19
20 the government security apparatus views digital media as a potential threat and 20
21 treats it as an integral part of Iran's oppositional politics. Digital connectivity and 21
22 diffusion of networks of communication remains a threat to authoritarian states. 22
23 Increasing interconnectivity between social media, (smart) mobile communication 23
24 and satellite TV programs enable civic activists or ordinary citizens to organize, 24
25 mobilize and creatively express discontent or claim transparency in a complex 25
26 media environment to defy easy control over the content and form of communication 26
27 in everyday life. Perhaps what is most problematic for the authoritarian states is 27
28 not why or when ICTs can be used for dissident activities, but the complex socio- 28
29 cultural processes through which they can construct new mental environments, 29
30 daily/nightly practices and civic engagements that on a long-term can undermine 30
31 the social context of authoritarian power. At the heart of Iran's communication 31
32 revolution is a social revolution of everyday subversive force of which no state of 32
33 exception can manage to restrain it. 33
34 34
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41 41
42 6 Fieldwork observation, Tehran, Iran, June, 8–14, 2013. 42
43 7 The Internet came back on to normal speed at midnight. Fieldwork observation, 43
44 Tehran, Iran, June 16, 2013. 44

Proof Copy

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4		4
5	Protests in Iran and Tunisia	5
6		6
7	Matthew Carrieri, Ronald J. Deibert, and Saad Omar Khan	7
8		8
9		9
10		10
11		11
12	The 2009 Iranian election protests and the Tunisian uprising of 2011 are	12
13	contemporary and salient examples of anti-authoritarian movements in the Middle	13
14	East and North Africa (MENA). International news media have reported at length	14
15	on the role of information and communication technologies (ICTs) in facilitating	15
16	organized protests against authoritarian regimes across the region, referring to these	16
17	and similar displays of dissent as “Twitter Revolutions” (<i>Washington Times</i> 2009).	17
18	“Web 2.0” applications like Twitter, Facebook, and YouTube allowed dissidents	18
19	and activists to bypass state media controls and broadcast steady streams of news	19
20	updates, photos, and video clips to local and international audiences. Social media	20
21	platforms also served as forums through which activists could rally disparate	21
22	individuals to collectively mobilize in the streets.	22
23	Iran and Tunisia also stifled dissent online with highly developed	23
24	telecommunications infrastructures of remarkably similar architecture. From the	24
25	mid 1990s onwards, the two countries channeled Internet bandwidth through a	25
26	single point of connection, creating a bottleneck through which online content	26
27	could be extensively filtered and opponents easily monitored. Legal frameworks	27
28	and regulatory bodies supplemented technical tools by providing governments with	28
29	the pretexts and institutions necessary to physically suppress dissidents. The Open	29
30	Net Initiative (ONI) has provided extensive coverage of Iran and Tunisia’s heavy	30
31	censorship regimes up to 2009, including pervasive filtering and legal controls on	31
32	content (ONI Iran 2009; ONI Tunisia 2009). The two governments’ ICT policies	32
33	attracted considerable attention from human rights activists, who awarded them a	33
34	number of dubious honors. Reporters without Borders, for example, named Iran	34
35	and Tunisia “Enemies of the Internet” in 2005 (RSF 2005), and the Committee to	35
36	Protect Journalists listed them among the most dangerous places from which to	36
37	blog in 2009 (CPJ 2009).	37
38	Iran and Tunisia used their information infrastructures to quell unrest in	38
39	response to the 2009 “Green Movement” and the 2011 “Jasmine Revolution.”	39
40	Yet Mahmoud Ahmadinejad survived to preside over another term, while Zine	40
41	el-Abidine Ben Ali fled the country. Do these divergent outcomes invalidate the	41
42	importance that many have accorded to ICTs in precipitating unrest? Assuming	42
43	Iran anticipated its post-election turmoil, is the successful exercise of state power	43
44	over information infrastructure simply a matter of preemptive preparation? While	44

1 we make no argument that the dissemination and use of ICTs is a necessary causal 1
 2 variable for democratization in modern authoritarian societies, this chapter adopts 2
 3 the position that communications technologies and social media can play a role in 3
 4 precipitating regime overthrow. It treats ICTs as tools that provide opportunities 4
 5 for organization and popular mobilization that may not otherwise exist in contexts 5
 6 of regime repression. As such, state-level responses to digital expressions of 6
 7 dissent help us understand the conditions that contribute to the relative success or 7
 8 failure of social movements. 8

9 Despite their similarities, Iran and Tunisia responded to their respective 9
 10 episodes of unrest in different ways. In contrast to Tunisia, Iran was considerably 10
 11 more proactive in implementing filtering and consistently maintained its extensive 11
 12 grip on information infrastructure in the face of popular demands. These factors 12
 13 proved vital in containing telecommunications-aided mass mobilization and 13
 14 preventing regime overthrow. 14

15 15
 16 16

17 **Internet as Threat or Opportunity in Iran and Tunisia** 17 18 18

19 Tunisia's approach to information technology prior to the 2011 revolution was 19
 20 rooted in the imperative of economic development. Almost immediately after 20
 21 the introduction of the Internet, the government invested some 1.5 billion USD 21
 22 to promote access among businesses and individuals (Abdulla 2007). Ben Ali 22
 23 himself publicly made the association between information technology and 23
 24 a robust, competitive economy, bragging that his government had "[laid] the 24
 25 foundations of the information society and the knowledge-based economy" for 25
 26 Tunisia (Jelassi 2010: 162). As a key facet of its tenth and eleventh development 26
 27 plans (2002–2006 and 2007–2011 respectively), Tunisia nearly tripled the number 27
 28 of domestic Internet users between 2006 and 2009 from 1.3 million to 3.4 million 28
 29 users (Jelassi 2010). The ICT sector's share of the economy rose dramatically 29
 30 in the years prior to the revolution, from 2.6 percent in 1997 to 10 percent in 30
 31 2008 (Jelassi 2010). The regime's Internet strategy under Ben Ali revolved around 31
 32 information technology as a driver of economic growth and an opportunity that 32
 33 should be exploited and encouraged, if also carefully controlled. 33

34 Like Tunisia, Iran at first welcomed the Internet as a tool for economic growth 34
 35 and academic progress (Rahimi 2003). The government promoted its development 35
 36 and expansion among commercial and educational sectors and, consequently, 36
 37 Internet use among the general public expanded dramatically from its inception 37
 38 in 1993. But as Sreberny and Khiabany (2010) note, Iran's ICT development was 38
 39 "constrained by confusion in government policies, varied institutional interests 39
 40 and above all the dialectical tension between the imperative of the market and 40
 41 'revolutionary' claims of the state" (11). Long-standing US sanctions on Iran 41
 42 have also made the acquisition of information technology hardware and software 42
 43 difficult, if not impossible (Sreberny and Khiabany 2010). 43

44 44

1 More importantly, the Islamic state has aimed to root out and destroy Western 1
2 cultural imperialism in order to replace its vestiges with an indigenous “Muslim” 2
3 culture as defined by the religio-political establishment (Sreberny and Khiabany 3
4 2010). In the 2000s, the state began to view the private sector’s control of ICT 4
5 infrastructure and the market’s role in dictating accessible content as an arena 5
6 of contestation and a threat to its cultural and political hegemony. While the 6
7 third five-year plan (2000–2005) outlined privatization and liberalization of the 7
8 telecommunications industry as a main objective in the effort to build a “knowledge- 8
9 based economy,” these initiatives were only haphazardly implemented. The state 9
10 proved reluctant to release its grip over ICTs and deepened its control over the 10
11 sector to such an extent that it became the leading provider of Internet access and 11
12 services (Sreberny and Khiabany 2010). 12

13 Since 2005, Iran has also allegedly been developing its own “National 13
14 Information Network”: a domestic intranet that limits users’ access to content 14
15 hosted on the World Wide Web and facilitates surveillance of those who continue 15
16 to use the Internet (Nouri 2010). The “National Information Network,” which 16
17 was initially slated to launch in 2009 but has since been delayed, represents the 17
18 culmination of the Iranian regime’s plans to promote its ideological vision of an 18
19 indigenous Islamic society via the Internet. By creating a system in which Iranian 19
20 users’ traffic need no longer be routed through external (often US-based) servers, 20
21 the government can more easily create a climate in which all content complies 21
22 with its overarching cultural vision and minimize ideological threats to its political 22
23 legitimacy. The Iranian state’s philosophy of the Internet thus differs significantly 23
24 from Tunisia’s. While Ben Ali enthusiastically sought to develop Tunisia’s 24
25 ICT industry, concerns over political hegemony and cultural integrity trumped 25
26 economic and social development in Iran. 26

27
28

29 **ICT Infrastructures and Filtering** 29
30 30

31 Tunisia’s emphasis in creating a “wired” country coincided with the state’s 31
32 development of its information infrastructure in a way that created a centralized 32
33 system of control. Wagner has described Tunisia’s cyberspace landscape as one in 33
34 which “control of telecommunications infrastructure and Internet infrastructure 34
35 are closely linked” (2012: 485). When the Internet was introduced in 1991 and 35
36 public access was still limited, state controls were nonexistent. The Internet’s 36
37 opening to the public in 1996 coincided with the creation of the Agence Tunisienne 37
38 d’Internet (ATI), which was tasked with regulating Tunisia’s Internet backbone 38
39 and domain name system (DNS), and providing connectivity to government 39
40 agencies (ONI 2007; Wagner 2012). The ATI also possessed a monopoly on the 40
41 country’s bandwidth, which it leased to all Internet service providers (ISPs), 41
42 many of which were government-owned. Its central position in regulating and 42
43 maintaining Tunisia’s Internet infrastructure greatly facilitated the installation of 43
44 government control mechanisms. Because all bandwidth needed to pass through 44

1 the ATI's gateway servers on its way to ISPs, the government could conveniently 1
2 filter content at a single bottleneck. The state also had significant control over 2
3 domestic Internet service providers. The country's main ISP and single provider 3
4 of international connectivity, Tunisie Telecom, was believed to have close links 4
5 to government figures even after its supposed "privatization" in 2006 (Wagner 5
6 2012). Even if the government did not officially own Tunisie Telecom, it was 6
7 understood that all ISPs in Tunisia were state controlled. In a personal interview 7
8 with Moez Chakchouk, current CEO of the ATI, Chakchouk explained that ISPs 8
9 during the Ben Ali era were all "somehow linked to the regime" (April 25, 2012). 9

10 From the ATI's inception, the government installed several layers of content 10
11 controls (Wagner 2012). Until 2003, the ATI used Secure Computing's SmartFilter 11
12 to consistently block content across all ISPs and NetApp's NetCache proxy 12
13 solution to display a generic "Error 404" blockpage. According to Chakchouk, 13
14 the government listed four website categories of concern to censors, including 14
15 pornography, sites related to the political opposition, sites relating to Ben Ali's 15
16 family, and sites seen as encouraging violence and "terrorism" (interview April 25, 16
17 2012). By 2003, dissidents had begun distributing censored content via email, and 17
18 the government consequently supplemented its website censorship with manual 18
19 email filtering. The ATI collected suspect emails and handed them over to the 19
20 Ministry of Interior, where employees read, deleted, and modified their contents. 20
21 Deep packet inspection technology was added in 2007, as the introduction of 21
22 broadband overwhelmed monitoring efforts via earlier mechanisms of control. 22

23 Despite the ATI's centralized control over censorship, decisions about what 23
24 sites should be censored came from outside of the agency. Statements by Kamel 24
25 Saadaoui, former ATI director (Elkin 2011) and Chakchouk indicate that the regime 25
26 itself had sole discretion over what sites were blocked. As Chakchouk explained, 26
27 "ATI does not decide which site to be filtered or not. The ATI is just responsible 27
28 to maintain equipment and to set up new equipment in the centers ... the demand 28
29 to do censorship came from Ben Ali himself" (interview April 25, 2012). The list 29
30 of blocked sites was unknown to the ATI, which often received knowledge of 30
31 filtering only when citizens inquired why a particular site was inaccessible (Elkin 31
32 2011). While the ATI as an Internet exchange point provided the functionality 32
33 and the technical expertise to filter, it lacked the authority to make decisions 33
34 about which sites should or should not have been banned. In this sense, Tunisia's 34
35 infrastructure of control prior to the revolution was considerably "top-down," with 35
36 little deliberation outside the confines of a select coterie of officials. 36

37 On the surface, Iran's telecommunications infrastructure and filtering practices 37
38 were remarkably similar to those of Tunisia. During the 1990s, freedom of 38
39 speech on the Internet was relatively unregulated. The Iranian regime viewed 39
40 the Internet as a potential opportunity to export its "cultural revolution" through 40
41 state-affiliated media outfits and to legitimize its rule by appearing "modernized" 41
42 (Rahimi 2003). However, hardline factions began to crack down on expressions of 42
43 liberalism in the mainstream media following the election of Mohamed Khatami 43
44 to the presidency, pushing political writers to the Internet as a vehicle of free 44

1 expression (Amnesty International 2010; Yahyanejad and Gheytonchi 2012). Even 1
2 as the Internet became a platform for Iranians to publish opinions critical of the 2
3 regime or to expose controversial topics, authorities sought to monopolize the 3
4 telecommunications industry and control online content. 4

5 Like Tunisia, Iran has “centralized [its] Internet infrastructure so that all 5
6 traffic must pass through a limited number of gateways or service providers” 6
7 (Karlekar and Cook 2009: 7). The Ministry of Information and Communications 7
8 Technology oversees two subsidiaries: the Telecommunications Infrastructure 8
9 Company (TIC) and the Telecommunications Company of Iran. The TIC provides 9
10 Internet bandwidth to ISPs, acts as the sole purchaser of international gateways, 10
11 and maintains data traffic for the public and private sectors (TCI website). Like 11
12 Tunisia’s ATI, all Internet traffic from commercial ISPs must connect via the TCI; 12
13 it is therefore easy for the government to implement filtering technology at a single 13
14 point of connection (ONI Iran 2009). The TCI was established as a government 14
15 organization in 1971, but was supposed to be privatized beginning in 2007. 15
16 Upon its initial public offering, however, the Iranian Revolutionary Guard Corps 16
17 (IRGC) purchased over 50 percent of the TCI’s shares through one of its affiliated 17
18 companies—the Mobin Trust Consortium (BBC Persian 2010). Similarly, the 18
19 second largest mobile-phone operator in the country, Iran Cell, is owned by a 19
20 number of commercial entities said to be “proxy companies” controlled by the 20
21 IRGC (Freedom House 2011a: 190). For a long time the Iranian government 21
22 employed SmartFilter—the same software used in Tunisia—to limit access to 22
23 foreign content, while manually shutting down undesirable local sites (ONI 2007). 23
24 The regime gradually developed its own domestic tools to search for and filter 24
25 objectionable content (ONI *Iran* 2009). Finally, the TCI uses proxy servers and 25
26 deep packet inspection tools provided by Nokia-Siemens Networks to facilitate 26
27 government surveillance by logging all unencrypted traffic that passes through the 27
28 data bottleneck (Rahimi 2011). Effective January 2012, however, Nokia-Siemens 28
29 pledged to reduce ties with Iran (Stecklow 2011). 29

30 However, noticeable differences exist between the two countries’ approaches 30
31 to Internet and telecommunications management. While no filtering regime is 31
32 completely transparent, Iran’s infrastructure of control appears to be relatively more 32
33 direct from a user’s perspective. Tunisia’s “blockpage” appeared as a nondescript 33
34 404 “File Not Found” error message, obfuscating the fact that the government was 34
35 actively blocking the site (ONI *Tunisia* 2009). Iran makes the filtration process 35
36 transparent, explicitly telling users that a site is forbidden and providing users with 36
37 suggestions for more acceptable websites (ONI *Iran* 2009). More stakeholders 37
38 are involved in the process of creating and maintaining Iran’s digital firewall, and 38
39 the surrounding bureaucracy of the telecommunication sector is larger and more 39
40 horizontally structured than Tunisia’s. An interagency committee, the Committee 40
41 in Charge of Determining Unauthorized Sites (CCDUS), was established in 2002 41
42 to set criteria for censoring websites based on guidelines provided by the Supreme 42
43 Council of the Cultural Revolution (ONI *Iran* 2009). No equivalent organization 43
44 existed under Ben Ali as part of Tunisia’s filtration regime. 44

1 Recently, the process of governmental control over the Internet in Iran has 1
 2 become even more organized with the creation of the Supreme Council of 2
 3 Cyberspace. In contrast to the relatively more opaque style of Tunisia's Internet 3
 4 filtering decision makers, the Supreme Council's existence as a policy-making 4
 5 committee comprised of high-ranking officials from several government bodies 5
 6 is openly publicized (Press TV 2012). A number of organizations have also been 6
 7 established and charged with policing Iran's Internet infrastructure since 2009, 7
 8 including: the IRGC (through its Cyber Defense Command); the Passive Defense 8
 9 Organization; the Information Communication Technology Section of Iran's 9
 10 Police Forces (FAVA/ICT Police) (Yeganeh 2010); and the "Cyber Police" (FETA) 10
 11 established in April 2011 (Moqaddem and Naja 2011). Iran's multiple stakeholders 11
 12 provide it with a more comprehensive grip on Internet governance than that of 12
 13 Tunisia at the height of its censorship policies. 13

16 Legal and Regulatory Controls 16

14
 15
 16 Beyond technical filtering, both Tunisia and Iran have used legal means to stifle 18
 19 dissent as part of their infrastructures of control. Prior to the revolution, Tunisia's 19
 20 Press Code made "defamation" punishable through fines or imprisonment (Freedom 20
 21 House 2012). These measures were only selectively implemented: criticizing the 21
 22 presidency or government was illegal, but pro-government reporters were given 22
 23 free rein to attack and discredit independent reporters (Campagna 2008). 23

24 Commercial telecommunications entities under Ben Ali were similarly subject 24
 25 to specific legal mechanisms and regulations. In 1997, two laws were enacted 25
 26 to hold ISPs directly responsible for online content: the "Telecommunications 26
 27 Decree" and the "Internet Decree." The former mandated that the press code 27
 28 applied to online content. All ISPs directors were made responsible for ensuring 28
 29 that information trafficked across the provider's network complied with the press 29
 30 code and for submitting their subscribers' names to the ATI on a monthly basis 30
 31 (Freedom House 2011b). The Internet Decree obliged ISPs to remove content 31
 32 deemed contrary to "public order or good morals" and to collect hard copies of 32
 33 offensive material for court proceedings. Although there is no evidence that any of 33
 34 these laws have actually been applied in Tunisia since their adoption (Article 19 34
 35 2012: 29), ISPs were legally complicit in implementing cyberspace controls that 35
 36 the Tunisian regime had created. 36

37 Despite Tunisia's regulatory complexity, Iran's legal regime is far more 37
 38 extensive due to a number of Internet-specific laws that have no equivalent in 38
 39 Tunisia. As in Tunisia, Iran has used existing press laws to stifle dissent online and 39
 40 offline. Article 6 of Iran's 1986 press law restricts content considered un-Islamic, 40
 41 "atheistic," or that instigates "individuals and groups to act against the security, 41
 42 dignity and interests of the Islamic Republic of Iran." It also forbids content that 42
 43 can be considered libelous against state officials, institutions, and organizations 43
 44 (*Pars Times*). In keeping with conservative factions' increasing concern over 44

1 the Internet during Khatami’s presidency, the law was amended to include all 1
 2 electronic publications in 2000 (al-Aamri 2012). 2

3 Iran has, however, developed legal doctrines specific to cyberspace. The 3
 4 2009 Iranian Cyber Crimes Act gives detailed punitive measures against those 4
 5 committing crimes such as: illegally accessing data and information systems 5
 6 protected by “security measures” (article 1); concealing data in a way that would 6
 7 provide “authorized individuals” from accessing to data, such as through basic 7
 8 encryption (article 10); sending obscene material through computers and other 8
 9 devices (article 14); using computers and other telecommunications technology 9
 10 to “disseminate lies” (article 18); and neglecting to filter out objectionable sites 10
 11 as an ISP, thus making service providers complicit in censorship (article 21: 11
 12 Article 19 2012: 23–43). This cyberspace-specific law indicates the increasing 12
 13 concern of Iranian authorities about curtailing dissident voices and molding 13
 14 Iranian cyberspace according to the state’s ideological vision. Rather than simply 14
 15 attack journalists, bloggers, and dissidents using an ambiguous press law, Iran has 15
 16 tailored legislation to protect the Islamic Republic against perceived domestic and 16
 17 geopolitical threats. 17

18 Iran’s regulatory regime bears certain similarities to Tunisia’s legal mechanisms 18
 19 for controlling cyberspace. Both used press laws to punish journalists and activists 19
 20 and developed telecommunications laws specifically for ISPs. Arguably, however, 20
 21 Iran’s legal regime more directly addresses Internet-related transgressions. The 21
 22 ideological differences between the secular Ben Ali regime and the religiously 22
 23 oriented Iranian government are reflected in their legal contexts. Iran’s press law 23
 24 explicitly mentions the unacceptability of “un-Islamic” and “atheistic” content. 24
 25 Tunisian penal codes forbid acts that upset “public morals,” but say nothing about 25
 26 content considered offensive to religious morals. 26

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29 **Information Controls in During Political Unrest** 29
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31 Iran in 2009 and Tunisia in 2011 both responded to widespread unrest by engaging 31
 32 in physical repression—often legally sanctioned under the laws described—and 32
 33 tightening ICT controls. Given that social media websites and cellular telephones 33
 34 played a key role in organizing protests and broadcasting human rights abuses, 34
 35 cyberspace formed a highly contested sphere in the conflicts between state and 35
 36 civil society (Howard and Hussain 2012; Zuckerman 2011). Arguably, the two 36
 37 regimes’ well-developed technical and legal infrastructures were tailor-made to 37
 38 shut down popular mobilization and to pinpoint and prosecute those responsible. 38
 39 Iran largely succeeded in this endeavor, but events in Tunisia resulted in the end of 39
 40 Ben Ali’s 23-year rule and precipitated calls for representation across North Africa 40
 41 and the Middle East. A number of factors contributed to these different outcomes. 41

42 Tunisian information controls during the Jasmine revolution were multifaceted. 42
 43 Reports indicate that the ATI was responsible for harvesting protesters’ Gmail, 43
 44 Yahoo, and Facebook login credentials (Ragan 2011). As the revolution ran its 44

1 course, websites were blocked, particularly Facebook pages about the unrest and 1
2 foreign online articles (including *France24*, *Al-Jazeera*, *BBC*, *Deutsche Welle*) 2
3 covering the events (RSF 2012). In an interview, ATI CEO Moez Chakchouk 3
4 claimed that part of the reason for not blocking Facebook itself was its use by the 4
5 Ben Ali regime for pro-regime propaganda (interview April 25, 2012). Despite all 5
6 of these efforts to control the revolution online, the protests continued. Howard 6
7 and colleagues (2011) explain how the lack of centralized leadership in the 7
8 revolutionary movement actually made efforts to stamp out the protest movement 8
9 more difficult. By contrast, the Green Movement coalesced around the figure of 9
10 Mir-Hossein Mousavi and, to a lesser extent, Mehdi Karroubi, both of whom were 10
11 reformist politicians by profession and recently defeated electoral candidates. 11
12 Centralized infrastructures of control like those in Iran and Tunisia may be 12
13 better suited to targeting websites and individuals specifically aligned to political 13
14 movements (as in Iran) than to dealing with decentralized opposition movements 14
15 (as in Tunisia). 15

16 Others have argued that the Tunisian regime was either ill-prepared to crack 16
17 down effectively on new media, which provided vital information during the 17
18 blackout of traditional media (Bounenni 2011), or simply underestimated its 18
19 efficacy (Al-Saqaf 2012). The former head of the ATI, Kamel Saadaoui, said that 19
20 the regime had “signed a deal to add monitoring of social networks,” but “hadn’t 20
21 yet delivered the solution when the Facebook revolution” crested in January (Silver 21
22 2011). As a result, the Tunisian regime’s approach to social media filtration and 22
23 monitoring was reactive rather than proactive (Wagner 2012). The widespread use 23
24 of social media and mobile phones to transmit messages and images of the protests 24
25 continued without significant government intervention or effective prevention. 25
26 Facebook, which remained unblocked and saw a huge spike in use beginning in 26
27 December 2010, became the primary source of breaking news for many in an 27
28 otherwise bleak media landscape. 28

29 The Tunisian regime’s reactive policies ultimately proved ineffective, and, in 29
30 a token show of reform, Ben Ali removed all Internet restrictions on January 14, 30
31 2011. The new freedoms accorded to Tunisian Internet users came within hours; 31
32 Ben Ali fled the country shortly thereafter. The speed at which he was able to lift 32
33 online controls has been attributed to the centralized role of the ATI in enforcing 33
34 filtering in Tunisia. Once a decision was made to lift restrictions, all the ruling 34
35 authorities had to do was push a metaphorical button at the ATI (Wagner 2012) to 35
36 stop filtering. The speed at which filtering ended thus illustrates how centralized 36
37 and narrow the Tunisian information infrastructure had become under Ben Ali. 37

38 Iran’s information controls during the 2009 election protests were 38
39 comparatively more far reaching. The Iranian regime ramped up its filtration, 39
40 surveillance, and cyber-attack activities as early as January 25 (Yahyanejad 40
41 and Gheytnchi 2012). Facebook and Twitter, both of which were previously 41
42 censored, were unblocked in January 2009 either in a token display of tolerance or 42
43 in an effort to monitor dissidents. However, the government banned them shortly 43
44 ahead of the June elections as an anticipatory move, possibly in an effort to block 44

1 users from disseminating information in support of Mousavi (Sheikholeslami 1
2 2009). Compared to Ben Ali's weak concessions, Facebook and similar social 2
3 media sites remained unequivocally banned throughout the protests. On the day 3
4 of the election, the Iranian government disabled the country's short message 4
5 service (SMS) system when protests against Ahmedinejad's re-election started 5
6 (RSF 2009). While officials claimed that the disruption aimed to prevent illegal 6
7 campaigning on election day, Mousavi supporters argued that it prevented them 7
8 from monitoring the election results. On days that protests were anticipated, 8
9 the Iranian government effectively blocked 60 to 70 percent of Internet traffic 9
10 and closed off ports commonly used by circumvention tools; on quieter days, it 10
11 engaged in deep packet inspection (Dutton et al. 2010). 11

12 Months prior to the election protests, the IRGC announced its support for 12
13 the pro-government paramilitary Basij in a project to launch 10,000 blogs as a 13
14 way of promoting Iran's "revolutionary ideas" (Tehrani 2009). Even prior to the 14
15 protests, then, the military vanguard of the Iranian state felt the need to compete 15
16 with the voices of the opposition in cyberspace. The so-called Iranian Cyber Army 16
17 also emerged as a cyberspace actor directly in the wake of the protests. Cyber 17
18 army attacks are numerous, some of the more notable ones being those against 18
19 Twitter (Finkle and Bartz 2009). Twitter's role in the Iranian protests made it an 19
20 obvious target for pro-regime forces after the election protests. In Tunisia, despite 20
21 the widespread acknowledgement of Twitter's role in supporting the protest 21
22 movement, there is no evidence that the site was wholly blocked; protesters used 22
23 the platform to inform, organize, and galvanize Tunisians against the regime. The 23
24 links between the cyber army and the Iranian regime are tenuous, although there 24
25 have been some reports that they receive direct support from the IRGC (Payvand 25
26 2012). 26

27 Tunisians' and Iranians' discontent in 2011 and 2009 respectively took two very 27
28 different trajectories. Despite the hopes of many dissident Iranians, the "Green 28
29 Movement" did not lead to the same end as Tunisia's "Jasmine Revolution." Both 29
30 movements uses information and communication technologies for organizational 30
31 purposes, and as a tool to promote the revolution at home and abroad. Conversely, 31
32 the 2009 and 2011 protests also showed how ICTs could facilitate the process of 32
33 state repression. As much as Tunisia tried to control online content, their controls 33
34 seemed relatively lax in contrast to Iran's hyper-vigilant approach to cyber security 34
35 and censorship during the election protests. 35

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38 **Conclusion** 38 39 39

40 Though the technologies were similar—both governments, for example, used 40
41 SmartFilter—the political and bureaucratic contexts in Iran and Tunisia differed. 41
42 From the beginning, Tunisia invested heavily in its ICT infrastructure as a vehicle 42
43 of economic growth. In Iran, the state's political ideology and a religiously inspired 43
44 animosity toward the Internet hampered the development of a telecommunications 44

1 sector, while international sanctions prevented the importation of hardware and 1
2 software that helps facilitate digital communication. Both countries retained 2
3 a degree of control over Internet content by ensuring that ISPs funneled traffic 3
4 through state-affiliated enterprises that essentially served as bottleneck points 4
5 for filtration. But where Tunisia's decision-making structure was vertical, with 5
6 power ultimately held in the person of Ben Ali and a small group of his supporters, 6
7 Iran's infrastructure of control consisted of multiple stakeholders with overlapping 7
8 responsibilities. Moreover, Iran was relatively more open about its filtration 8
9 policies and justifications for them than was Tunisia, as exemplified by their 9
10 respective blockpages. This relative transparency is apparent at the legal level as 10
11 well. Iran and pre-revolution Tunisia had extensive press laws to suppress dissent. 11
12 Only Iran, however, developed legislation to specifically punish crimes committed 12
13 using digital technology and established government institutions to determine the 13
14 limits of permissible online activity. Iran's legal environment also specifically 14
15 targets un-Islamic content, a regulatory concern without equal in secular pre- 15
16 revolution Tunisia and a convenient pretext for censorship. Philosophically, the 16
17 Iranian regime's willingness to separate itself from the World Wide Web both as 17
18 a policy and as a *de facto* consequence of its cyberspace controls also contrasts 18
19 with the Ben Ali government's relative openness and desire to instrumentalize the 19
20 Internet as a tool for economic growth. 20

21 Iran in 2009 proved more effective at blocking content it found threatening 21
22 than did Tunisia throughout its revolution. The lack of an overarching social media 22
23 blackout at the time of the Tunisian protests stands in contrast to Iran's blocking of 23
24 Facebook, Twitter, and foreign media in 2009. As was evident in Ben Ali's speech 24
25 and his subsequent removal of all online censorship, the Tunisian government 25
26 clearly had the capability to extensively and expeditiously censor content, but 26
27 perhaps lacked the bureaucratic structure to deliberate effectively. The importance 27
28 of preemptive preparation must also be noted. The "Green Movement" emerged 28
29 in response to a foreseeable event, the planning for which began well in advance 29
30 of its occurrence. Iran's multi-stakeholder control regime anticipated a negative 30
31 response to the 2009 election results; it thus took preliminary steps to limit free 31
32 speech online and responded forcefully to displays of disaffection. By contrast, 32
33 Ben Ali's regime could not have predicted Mohamed Bouazizi's actions and their 33
34 strong resonance among the Tunisian people. The government was forced to 34
35 improvise by implementing piecemeal measures but was neither well organized 35
36 nor quick enough to combat opposition online. In the struggle between regimes 36
37 and dissidents over control of communication technologies, a government's 37
38 opportunity to prepare its infrastructure of control for a coming shock is a clear, 38
39 though by no means decisive, advantage. 39

40 Following their respective periods of civil conflict, Iran and Tunisia's 40
41 telecommunications infrastructures and policies developed in divergent ways. 41
42 In Tunisia, the state's role in censorship and surveillance disappeared, as the 42
43 ATI sought to reinvent itself as a neutral, semi-governmental Internet exchange 43
44 point (Chakchouk interview, April 25, 2012). In Iran, however, state control of 44

1 the country's ICT infrastructure deepened after June 2009. The establishment 1
2 of the Supreme Council on Cyberspace in March 2012 and the expanding roster 2
3 of regulatory bodies responsible for policing the Internet reflect the Iranian 3
4 authorities' increasing concern with cyberspace as a sphere of domestic and 4
5 geopolitical conflict. The government's plan to launch the "National Information 5
6 Network"—essentially an intranet closed off to international traffic—threatens 6
7 to establish an environment in which all content serves to propagate an official 7
8 message and legitimize state power. These developments were predictable: 8
9 Tunisian civil society made use of its newly representative political system to 9
10 demand a free flow of information, while the victorious but shaken Iranian regime 10
11 doubled down on defending its interests. 11

12 The Iranian and Tunisian case studies show that authoritarian power need not 12
13 necessarily be undermined by ICTs as long as the flow of information can be 13
14 extensively and consistently controlled by the regime, especially in times of crisis. 14
15 As Deibert and Rohozinski (2010) argue, communications technologies are tools 15
16 that in different contexts may be used for either "liberation" or "control" (44). While 16
17 ICTs were certainly not the cause of the uprisings or the sole manifestation of civil 17
18 conflict, they undoubtedly provide civil society with a space to grow in otherwise 18
19 repressive political environments. However, our analysis suggests that regimes 19
20 that fully leverage the control and surveillance capabilities of their information 20
21 infrastructures can successfully curtail movements that seek to upend the political 21
22 order. Keeping in mind specific contexts, other states in similar situations of 22
23 political instability might learn a lesson or two from this comparison. Regimes 23
24 that adequately prepare, adopt an offensive stance, and "stick to their guns"—as 24
25 in the Iranian case—can deal a devastating blow to social movements by using 25
26 ICTs to their own advantage. As of this writing, such "regime learning" could be 26
27 evident in Syria, where the ruling party has displayed a consistent willingness to 27
28 combat opposition at all levels, including by using ICTs to aggressively monitor 28
29 dissidents and promote an "official narrative" counter to its opponents' criticisms. 29
30 Assuming that ruling powers do look to Iran as an example of regime resistance, 30
31 social movements seeking to use information infrastructures for their own ends 31
32 will face governments that are more prepared, more technologically empowered, 32
33 and more willing to leverage the same tools as their opponents. 33

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Chapter 4

Digital Occupation in Gaza's High-Tech Enclosure

Helga Tawil-Souri¹

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Since the Israeli regime's disengagement from the Gaza Strip in Summer 2005, Gaza has become an "airborne-occupied enclave" (Hanafi 2009: 118), an open-air prison, and a testing-ground for the latest military technologies. Israel's approach towards Gaza has been a balancing act "of maximum control and minimum responsibility" (Li 2006: 39) which has resulted in a form of occupation—and state power—that has become increasingly technologized. Unmanned aerial reconnaissance and attack drones, remote-controlled machine guns, closed-circuit television, sonic imagery, gamma-radiation detectors, remote-controlled bulldozers and boats, electrified fences, among many other examples, are increasingly used for control and surveillance (e.g. "Israeli Arsenal Deployed against Gaza" 2009 and "Agreed Documents on Movement and Access" 2005). Disengagement, in other words, did not mark the end of colonial occupation and control, but a move from a traditional military occupation towards a high-tech one. Rooted in Israel's increasingly globalized security-military-high-tech industry, the technological sealing of Gaza is part of the transformation of the mechanics of Israeli occupation that began with the first intifada (1987) and the ensuing "peace process" (1993) (e.g. Gordon 2008).

The Israeli regime—by which I mean the apparatus of ministries, military powers, corporations, individuals, and practices as they act with and towards the Palestinians—is not a classically authoritarian one. (My concern here is not so much Israeli policies within what one may call "Israel proper," but rather in the Palestinian Territories.) Nor is the Palestinian Authority (PA), which became the official political representative of Palestinians in the West Bank and Gaza in 1993, an authoritarian regime, even if it exhibits authoritarian-like behaviors. The PA remains at best a pseudo-government, attempting to balance a largely impossible situation of being responsible to 'govern' the Palestinian Territories, yet having very little autonomy to do so because of Israel's strangle-hold. The relationship between them is fundamentally one of settler-colonialism. There are however variegated manifestations, most notably the difference in approach towards

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1 Gaza and the West Bank: Israel's attempt to completely segregate and control 1
2 the first; and Israel's infiltration, envelopment, and discombobulation of the latter. 2
3 Sometimes Israeli policies exhibit apartheid-like similarities, other times, they bear 3
4 morose similarity to authoritarian practices. In the uneven power matrix between 4
5 Israel and Gaza (and Palestinians more generally), information technologies play 5
6 a significant role in strengthening and expanding the power of the Israeli regime, 6
7 as will be described below. It is important to recognize that high-tech is one of the 7
8 means through which Israeli occupation continues, but also that the occupation 8
9 has been a critical component in Israeli high-tech. Somewhat ironically, for the PA 9
10 as well, power over its "citizens" is consolidated through the realm of information 10
11 technologies, most obviously in the economic realm. 11

12 My focus in what follows is to unveil the ways in which high-tech infrastructure 12
13 in the Gaza Strip—that which is used by Palestinians as opposed to the Israeli 13
14 regime—is also a space of control. Technology infrastructures form part of the 14
15 apparatus of Israeli control over Gazans. A telephone call made on a landline, 15
16 even between Gaza City and Khan Younis, is physically routed through Israel. 16
17 Internet traffic is routed through switches located outside the Gaza Strip. Even 17
18 on the ubiquitous cellular phones, calls must touch the Israeli backbone at some 18
19 point. Like much else about the Gaza Strip, telecommunication infrastructures 19
20 are limited by Israeli policies. Geographic mobility, economic growth, political 20
21 mobilization, and territory are contained, but so are digital flows: Gazans live 21
22 under a regime of digital occupation. 22

23 The phrase "digital occupation" highlights a dynamic process. First, it 23
24 suggests that Israeli territorial control over Gaza continues, but increasingly 24
25 also includes the high-tech realm. Second, digital occupation articulates the 25
26 ways in which Palestinian and multinational corporations, the PA, international 26
27 NGOs, and international capital networks combine to lead the development of 27
28 telecommunications to follow a neo-liberal economic agenda. A core contradiction 28
29 arises against which to understand technology infrastructures: the confinement 29
30 of Gazans in a narrowing and disconnected space occurs at the same time that 30
31 high-tech globalization is posited as the route to openness and to overcoming 31
32 confinement. Third, Gazans themselves "occupy" digital spaces, even if with 32
33 constraints and sometimes illegally: they reach out to friends and family, report 33
34 abuses, and escape physical confinement in virtual ways. It is an on-going 34
35 dialectic. Thus, the issue to consider is not whether there is a net gain or a net 35
36 loss to authoritarian rule, for there exists a constant tension between information 36
37 technologies' intended inventions, applied controls, actual uses, and outcomes. 37

38 In what follows, I focus on the telecommunications infrastructure—telephone 38
39 landlines, cellular telephony, and Internet access—as a space of control. I analyze 39
40 how high-tech spaces are subject to control—a control necessary to Israel's 40
41 strategy to contain Gaza and accompanied by the capital controls of neo-liberal 41
42 globalization that the PA has embraced. My interest here is not the ways Gazans 42
43 negotiate living under such a regime (what Gazans do on the Internet and the uses 43
44 to which they put their mobile phones, while important, are beyond the scope 44

1 of this chapter but the *structure* of digital occupation. “Digital occupation” here 1
 2 highlights the relationship between territorial and technological enclosure. 2
 3 Many scholars and politicians suggest that while Gazans may be territorially 3
 4 locked up, if they have mobile phones and the Internet they are not just plugged 4
 5 into the world but can—at least virtually—overcome their territorial confinement 5
 6 (e.g. Lunat 2009; World Bank 2008). The liberatory aspects ascribed to information 6
 7 technologies acquired increased salience with the Arab uprisings: if Tunisians and 7
 8 Egyptians managed to shake off their overlords in part thanks to Facebook, Twitter, 8
 9 and mobile phones, it is argued, perhaps Palestinians can too. These are tensions 9
 10 that I challenge: it is impossible to speak of a Gaza that is territorially sealed 10
 11 and digitally boundless; there are “material” limitations to high-tech spaces—in 11
 12 terms of physicality *and* in the Marxist sense of economic. Particularly in the 12
 13 Palestinian case, one must consider Israel’s continued demand that any future 13
 14 Palestinian state—to say nothing of the current configurations of enclaves such as 14
 15 Gaza—not only be demilitarized and without control over borders, but also, in the 15
 16 words of Israeli Prime Minister Binyamin Netanyahu, “without control over its ... 16
 17 electro-magnetic field” (Wikileaks 2009). This is significant, not only in assessing 17
 18 whether a “new media revolution” is possible for/in Gaza, but in understanding 18
 19 the relationship between technology, political freedoms, power, and occupation. 19
 20
 21
 22 **Enclosure** 22
 23
 24 Digital networks have their own forms of controls, their own “checkpoints” and 24
 25 nodes that serve to limit and contain flows (e.g. Deibert 2009; Galloway 2004). 25
 26 Gaza is enclosed both by concrete and high-tech “walls” through a complex set of 26
 27 inclusions and exclusions operating through a variety of practices that render Gaza 27
 28 *both* a physical and a digital enclave. A useful way to look at Gaza and to assess 28
 29 the implications of digital occupation is through the concept of “enclosure,” drawn 29
 30 from the disciplines of economics, history, geography, and digital media studies. 30
 31 “Enclosure” is a historically, geographically, and economically specific 31
 32 process that evolved as part of the industrial revolution in eighteenth-century 32
 33 Great Britain, which actively transformed a territorial space’s social economy, 33
 34 demography, and culture. Hegemonic groups asserted control over territory both 34
 35 through law and architecture. The legal element redefined property rights and, 35
 36 by reorganizing systems of ownership, use, and circulation, imposed different 36
 37 structures of sovereignty and access. The architectural element, meanwhile, recast 37
 38 the land’s contours through the building of hedges, walls, fences, and gates. This 38
 39 combination of legal and architectural articulations resulted in new “enclosed” 39
 40 spaces that enforced a different system of circulation, flow, and trespass. Parts 40
 41 of social and economic life that were formerly common, non-commodified, and 41
 42 largely outside the realm of control and surveillance were turned into private and 42
 43 surveillable possessions under a new property regime limiting free (meaning both 43
 44 sovereign and not paid for) mobility. This pattern can be seen in Gaza, where the 44

1 Oslo Accords would be the legal element, and the spatial mechanisms that enclose 1
2 it (walls, checkpoints, control towers, permits and identification cards, aerial 2
3 drones, etc.)—poignant examples of land enclosure—would be the architectural 3
4 element. 4

5 The enclosure of Gaza is also to be understood as the production of a particular 5
6 kind of economic space. Marxist analyses by scholars such as Henri Lefebvre 6
7 and David Harvey and cultural theorists ranging from members of the Frankfurt 7
8 School to Raymond Williams have shown how the spread of neo-liberal capitalism 8
9 and dispossession has been a dynamic that exists throughout the circuits of capital, 9
10 resulting in uneven spatial and economic development. Gaza’s economic landscape 10
11 is not simply unevenly developed, but entirely de-developed: drowning in poverty, 11
12 besieged by Israel, and almost entirely dependent on external aid (except for the 12
13 tunnel economy). Sara Roy’s (1987) argument of the de-development of Gaza is 13
14 as relevant today as it was more than 20 years ago. Gaza is certainly not enjoying 14
15 the “economic peace” that (parts of) the West Bank enjoys today. As for Hamas, 15
16 since its take-over of the Strip in 2007, it has neither tried nor been given room to 16
17 counter the neo-liberal approach initially subscribed to by the PA (see Khalidi and 17
18 Samour 2011 for a critique of PA neoliberal policies with a particular focus on the 18
19 West Bank). 19

20 The process of enclosure is omnivorous in its drive for total assimilation: 20
21 all kinds of spaces become inscribed and appropriated within its logic. Various 21
22 scholars have expanded enclosure to geopolitical and economic analyses beyond 22
23 industrial-age Great Britain, including to analyses of information networks. For 23
24 example, Dan Schiller (1999) argues that what began as telecommunications 24
25 networks capable of becoming “common” and public instead became leading edges 25
26 in trans-national capitalism. That telephone and Internet access in most parts of the 26
27 world are now privately held and have become largely commercial “spaces” is due 27
28 to the legal, political, economic, and social decisions that rendered them such. This 28
29 process of “digital enclosure” traces the relationship between a material, spatial 29
30 process—the construction of networked, interactive environments—and the 30
31 private expropriation of previously non-proprietary information (see Boyle 2002, 31
32 2003). It results in the construction of an increasingly restrictive legal regime that 32
33 extends and enforces property rights over a growing range of information and 33
34 practices. Thus, digital enclosure is two-fold: the network and/or access to the 34
35 network is privatized, and the data produced on high-tech networks becomes the 35
36 property of the networks’ owner-operators. 36

37 I propose the term “digital occupation” to describe the multi-faceted process 37
38 that combines the territorial and economic dynamics of land and digital enclosures 38
39 (alongside other limitations). In Gaza, we witness the privatization of networks and 39
40 information flows: a large corporation (Paltel) manages the telecommunications 40
41 infrastructure and structures, with the terms of access driven by legal and economic 41
42 modalities instituted by the PA and continued by Hamas. (Since 2007 Hamas has 42
43 established its own Ministry for Information and Telecommunications in Gaza. But 43
44 Hamas inherited the telecommunications infrastructure as was originally allowed 44

1 to be developed by the PA and has not changed ownership, economic, or legal 1
 2 policies.) But the allocation of bandwidth; the placement, number, and strength 2
 3 of Internet routers or telephone exchanges; the range of cellular signals and the 3
 4 equipment used are all limited by Israeli restrictions. Israel actively structures 4
 5 both the spaces of (high-tech) flows and the spaces of control in order to enclose, 5
 6 border, and surveil Gazans. 6

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9 Segregated but Dependent 9

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11 “Digital occupation” manifests itself on multiple levels, notably the PA’s economic 11
 12 and legal decisions, and second, Israel’s “legal” and “architectural” decisions. In 12
 13 the “legal” realm, I mean policies imposing limitations on kinds of equipment 13
 14 permitted and limiting the kind of infrastructure, often according to the Oslo 14
 15 Accords. By “architectural,” I mean within the physical equipment itself, in that 15
 16 all networks have software and hardware architectures, and territorial decisions 16
 17 such as where equipment is permitted. 17

18 The Israeli–Palestinian technological relationship, like their political and 18
 19 economic relationship, has been one of Israeli control and restrictions and 19
 20 Palestinian dependence. From the outset of occupation in 1967, Israel controlled 20
 21 and maintained telecommunications systems in the occupied territories and 21
 22 imposed legal and military restrictions on them. What little was done with regard to 22
 23 telecommunications in Palestinian areas rendered the network subservient to Israeli 23
 24 infrastructure. For example, all telephone switching nodes were built *outside* areas 24
 25 that might eventually have to be handed over to Palestinian control. The Israeli 25
 26 government (and after industry liberalization in 1985, the state telecommunications 26
 27 provider Bezeq) was in charge of telecommunications throughout Palestine-Israel. 27
 28 Despite the fact that Palestinians paid income, value-added, and other taxes to the 28
 29 Israeli government, Bezeq was neither quick nor efficient in servicing Palestinian 29
 30 users. Telephonically, Palestinians were enclavized and largely disconnected from 30
 31 the network, living under a regime that restricted both their mobility and their 31
 32 access to the outside world. 32

33 Oslo II, signed in September 1995, reversed many of these restrictions. 33
 34 Palestinians were promised direct domestic and international telephone and 34
 35 Internet access. Oslo II stated: “Israel recognizes that the Palestinian side has the 35
 36 right to build and operate a separate and independent communication systems and 36
 37 infrastructures including telecommunication networks” (Oslo 2, Annex III, Article 37
 38 36). It then went on to stipulate the conditions within which an “independent” 38
 39 Palestinian telecommunications system would be constrained, as follows: 39

40 40

41 the Palestinian side shall be permitted to import and use any and all kinds of 41
 42 telephones, fax machines, answering machines, modems and data terminals ... 42
 43 Israel recognizes and understands that for the purpose of building a separate 43
 44 network, the Palestinian side has the right to adopt its own standards and to 44

1 import equipment which meets these standards ... The equipment will be used 1
 2 only when the independent Palestinian network is operational. (Ibid., D.2, 2
 3 emphasis added) 3
 4 4

5 The point that the network would become independent only when the system 5
 6 became operational is crucial, because the Palestinian network to this day is 6
 7 not independently operational and continues to rely on Israel's. As with other 7
 8 infrastructures (broadcasting, sewage, population registries, water, transportation, 8
 9 etc.), Palestinians were subjected to Israeli constraints that countered their "right" 9
 10 to build separate and independent systems. 10

11 The PA proceeded as if the limitations set forth in Oslo would eventually be 11
 12 lifted, and after Israel handed over responsibility for the infrastructure in 1995, 12
 13 the PA established a simulacrum of an "independent" telecommunications system. 13
 14 Reflective of the neo-liberal agenda of the PA and its foreign donors, the only 14
 15 options posited for a successful "state" were private-sector growth, liberalization, 15
 16 and privatization, and the PA passed responsibility for telecommunications to 16
 17 the private sector. Paltel (the Palestine Telecommunications Company) was 17
 18 awarded a license to build, operate, and own landlines, a GSM cellular network 18
 19 (global system mobile communications), data communications, paging services, 19
 20 and public phones. Paltel's largest investors were the economic powerhouses 20
 21 of Palestine. As in much of the rest of the world, investment in and profit from 21
 22 large-scale infrastructure projects benefited those who already wielded substantial 22
 23 economic power. By 2010, Paltel's market capitalization represented more than 23
 24 half the value traded on the Palestinian stock exchange, contributed over a third of 24
 25 the PA's tax income, and its revenues accounted for approximately 10 percent of 25
 26 the Palestinian GDP. 26

27 The PA's privatization of telecommunications bespeaks the supremacy 27
 28 of market logic; in fact, from the day that it was handed over, Palestinian 28
 29 telecommunications privatization was a *fait accompli*. Between September 29
 30 1995 and January 1997, the PA contracted with the Canadian firm Nortel to 30
 31 build and maintain the telecommunications network. Thereafter, the Palestinian 31
 32 telecommunications infrastructure continued to be "enclosed" in that the network 32
 33 was privately owned and users had to accept whatever forms of access and fees 33
 34 Paltel instituted. The PA, in keeping with its approach to state-building more 34
 35 generally, treated telecommunications infrastructure neither as a public good nor 35
 36 considered the benefits of universal access. Paltel was celebrated as one of the first 36
 37 functional national institutions, but in fact it was only symbolically "national," 37
 38 its services available only to those who could afford them. Thus the process of 38
 39 enclosure was not sanctioned simply by Israel, but *doubly* state-sanctioned insofar 39
 40 as the proto-state PA apparatus instituted neo-liberal infrastructure-development 40
 41 policies. 41

42 These policies did not challenge Israel's ultimate control over telecommunications. 42
 43 Reliance on Bezeq for most domestic connections and all international connections, 43
 44 for example, continued under Paltel. As Bezeq spokesman Roni Mandelbaum 44

1 remarked in 1996, Palestinians “are not entitled to any signs of sovereignty 1
2 ... They have to rely on the infrastructure we supply them” (quoted in Prusher 2
3 1996). This has yet fundamentally to change. The only “sovereignty” gained since 3
4 Oslo resulted from the liberalization of the *Israeli* market, which allowed Paltel 4
5 to choose between different Israeli providers. In late 2009, after much political 5
6 difficulty, a second cellular provider, Wataniya, began operating, but to date it has 6
7 not been given Israeli permission to provide service in the Gaza Strip. 7

8 In summer 1999, the first call on Paltel’s cellular subsidiary, Jawwal, was made 8
9 in Gaza (in the West Bank, Jawwal service began in October of the same year). 9
10 As in the rest of the developing world, cellular telephony is more widespread 10
11 than landline service, since it is cheaper and relatively easier to install. Thus 11
12 tensions over the development and control of cellular telephony have been even 12
13 more controversial and important. The four Israeli cellular providers at the time 13
14 continued to sell services to Palestinians (illegally according to the Oslo Accords 14
15 and PA regulations), without any economic, social, or political accountability to 15
16 the PA. Since 1999, Jawwal has garnered a larger market share, but an estimated 16
17 20 to 40 percent of Palestinian cellular users today still use Israeli cellular service, 17
18 which is cheaper. It is also generally available throughout the occupied territories 18
19 because Israeli providers build and install infrastructure not only throughout 19
20 Israel but also in the West Bank, usually on and along bypass roads, on hilltops, 20
21 in settlements, outposts, and military installations. While there is no Israeli- 21
22 owned infrastructure inside post-2005 disengagement Gaza, cellular signals 22
23 from Israeli towers along the perimeter reach well within the narrow sliver of 23
24 the Strip. Moreover, since cellular spectrum all over Palestine-Israel is under the 24
25 management of the Israeli Communications Ministry, the four Israeli cellular 25
26 providers collectively boast signals more than 2,000 times stronger than Jawwal’s. 26
27 And, as with landline telephones, much cellular traffic on Jawwal (and Wataniya 27
28 in the West Bank) depends on the Israeli backbone. 28

29 Both landline and cellular telephony are mostly creations of the Oslo era; what 29
30 little landline infrastructure existed before 1995 was handed over to the PA, all 30
31 Palestinian cellular infrastructure had to be built from scratch. The politics of the 31
32 two technologies ought not to be understood as different, even though landlines 32
33 are integrated into the Israeli system and cellular telephones are not. Both are 33
34 forced to be segregated from yet dependent on Israeli networks. While landline 34
35 and cellular technologies require different mechanisms to operate, the entire 35
36 underlying structure of Palestinian telecommunications is occupied. 36

37 The infrastructure needed to connect to the Internet is much the same as that 37
38 for telephony, and as such the possibility and limitations of “independent” Internet 38
39 connection parallel those of landlines. Until 2005, Internet service in the occupied 39
40 Palestinian territories was “competitive” in that there existed about a dozen 40
41 Internet Service Providers (ISPs) in the West Bank and a handful in the Gaza 41
42 Strip. All were resellers of Israeli bandwidth because no international gateway 42
43 switches were allowed within the Palestinian territories. In January 2005, Paltel 43
44 began purchasing all existing Palestinian ISPs through its Internet subsidiary, 44

1 Hadara, and by that summer had a monopoly on the market, further demonstrating 1
 2 the privatization of access and the enclosure of high technology. 2
 3 Although the Oslo Accords stated that Israel would release more bandwidth 3
 4 “as soon as any need arises,” the entirety of Palestinian telecommunications 4
 5 functions of sub-par infrastructure. Jawwal continues operating on the same 5
 6 narrow frequency allocation it was first awarded and is largely retarded in its 6
 7 upgrading to new platforms. In the West Bank, Wataniya also operates with less 7
 8 bandwidth than needed to adequately serve its subscribers. The maximum transfer 8
 9 rate Hadara provides any one subscriber is 2Mbps, and that bandwidth often has to 9
 10 be shared among numerous subscribers, effectively slowing down Internet traffic. 10
 11 But it is not the Palestinian providers that are to blame for limited bandwidth. 11
 12 As with cellular telephony, it is Israel’s Communication Ministry that determines 12
 13 how much bandwidth Hadara is permitted in the first place. Above and beyond 13
 14 the privatization of high-tech space by Palestinian actors (Paltel/Hadara and PA 14
 15 decisions), there remain controls determined by Israeli legal and architectural 15
 16 limitations. 16
 17 17
 18 18
 19 **Boundaries on Telecommunications** 19
 20 20
 21 Hadara is mandated by Israeli authorities to provide limited bandwidth for 21
 22 Palestinian Internet use, making it invariably slower to surf the Internet in the 22
 23 territories than in Israel. Israeli providers sell bandwidth to Hadara at substantially 23
 24 higher rates than to providers in Israel, making Internet access relatively more 24
 25 expensive for Palestinian users. Moreover, the Israeli government has enforced 25
 26 strict limitations on the kinds of equipment permitted. In the case of the Gaza Strip, 26
 27 all switching routers for Internet traffic are located in Israel. The combination 27
 28 of higher costs, slower speeds, and limited technologies results in a bondage 28
 29 of bandwidth, meaning that Gazan Internet flows are limited, thus also limiting 29
 30 Gazans’ integration into the network. 30
 31 Internet users in the Gaza Strip can surf the Internet—assuming the electricity 31
 32 works—but are forced to do so at a high price and slow rate, effectively limiting 32
 33 their virtual connections and flows. Furthermore, as is the case across the 33
 34 telecommunications sector, limitations imposed by the Israeli state force Internet 34
 35 traffic through Israel. The Internet is enclosed due to the privatization of the 35
 36 network, high costs, and the limitations of bandwidth, and territorially confined 36
 37 as well. 37
 38 Boundaries have been erected on several layers of the telecommunications 38
 39 infrastructure. For example, Article 36 of Oslo II stipulated that “Israel recognizes 39
 40 the right of the Palestinian side to establish telecommunications links (microwave 40
 41 and physical) to connect the West Bank and the Gaza Strip through Israel” (Oslo 41
 42 2, Annex III, Article 36, D.3d). A microwave link was installed in 1995 to connect 42
 43 the West Bank and Gaza Strip but was quickly saturated (because of the Israeli 43
 44 Communication Ministry’s refusal to provide more bandwidth) so that the majority 44

1 of traffic had to be re-routed back through Bezeq's network. Paltel was forbidden 1
2 to import equipment—telephone exchanges, broadcasting towers, etc.—that could 2
3 have allowed it to build an actually independent network that could connect across 3
4 all Palestinian territories. 4

5 These kinds of “territorial” limitations are combined with “legal” and military 5
6 measures that further contain Gazan telecommunications infrastructure. These 6
7 include confiscating and forbidding the import of equipment, illegal competition 7
8 by Israeli providers, limited bandwidth, limitations on what equipment can be 8
9 installed where, delay of approvals, and purposeful destruction of machinery 9
10 and infrastructure. There are ample examples: Jawwal's limited spectrum means 10
11 that its more than two million subscribers are paying for poor service because 11
12 the network was built to support only its initial 120,000 subscribers. Hadara is 12
13 still waiting for permission for an Internet trunk-switch to allow Internet traffic 13
14 to circumvent Israel. Gaza's telecommunications networks are continually shut 14
15 down for various reasons, including Paltel's failure or delay in paying its Israeli 15
16 providers (often because cash flow is itself controlled by Israel) and for Israeli- 16
17 defined “security” issues. Telephone and broadcast signals are jammed and hacked 17
18 into by the IDF. During the 2008–9 war, for example, the Israeli military sent text 18
19 messages and voice mails to cellular and landline users in the Gaza Strip. Eyal 19
20 Weizman (2009) argues that these are “technologies of warning” that provide the 20
21 IDF the ability to warn Gazans of impending bombings and thus “legally” render 21
22 their recipients into “legitimate targets.” From the perspective of the Palestinian 22
23 user, however, these technologies of warning are also technologies of enclosure 23
24 and occupation. Moreover, the mechanisms of digital occupation are exercised 24
25 through the disruption of everyday life, not simply during exceptional moments 25
26 of violence. On any “normal” day, a Gazan's phone call is routed through Israel, 26
27 his signals are jammed whenever a drone passes overhead (sometimes as often as 27
28 every 15 minutes), his phone service may be shut down or tapped, and his Internet 28
29 connection surveilled. And for these interruptions and intrusions the Gazan user 29
30 must pay nearly twice as much as his Israeli counterpart. 30

31 It is not just the end-user but also the telecommunications infrastructures 31
32 themselves that are subject to the occupation's logic. Although former Israeli 32
33 Prime Minister Ariel Sharon's Gaza disengagement plan stated that Israel would 33
34 hand over the landline infrastructure in Palestinian areas intact, the IDF severed 34
35 the main north-south connection in the Strip and buried the line's remnants under 35
36 the rubble of the Kfar Darom settlement. In some cases, the destruction has been 36
37 widespread and debilitating, most obviously during the 2008–9 assault on Gaza, 37
38 when damage to Paltel's network in Gaza was estimated at more than US\$10 million 38
39 (“Interview with Saa'd” 2009). Both the purposeful destruction of equipment and 39
40 the prevention of its importation and installation limit the development of high- 40
41 tech infrastructure. As is with all infrastructural limits imposed on Gaza—from 41
42 electricity to sewage—impeding a “normal” infrastructure occurs on a daily basis, 42
43 not only during military operations. In August 2011, for example, international 43
44 landline, mobile phone, and Internet connections within Gaza were shut down 44

1 when an Israeli military bulldozer severed connection lines near the Nahal Oz 1
2 crossing, and Paltel had to request Israeli permission to repair the line. On the rare 2
3 occasion that Paltel is permitted to upgrade its infrastructure, such as in October 3
4 2012, it must coordinate such efforts with the Israeli military; as one Israeli officer 4
5 explained, the “operation [for high speed Internet cables along parts of the ‘wall’ 5
6 surrounding the Gaza Strip] was treated and run like a military operation” (quoted 6
7 in Sheinman 2012). 7

8 Paltel and its subsidiaries say they are pushing for complete “separation” 8
9 from Israel, including ending their reliance on Israeli providers and equipment. 9
10 Nevertheless, Israel has made it easier for Paltel, Jawwal, and Hadara to acquire 10
11 equipment from Israeli suppliers than from foreign ones. “They [the Israeli 11
12 authorities] make us prefer suppliers from Israel. There have always been 12
13 limitations on our technology,” explained a Paltel executive in 2005 (personal 13
14 interview, July 5, 2005). Another Paltel executive raises an additional concern, 14
15 widespread among Palestinians: “How do we know that the equipment that comes 15
16 from Israel is not tampered with? ... maybe they make it weaker, maybe they put 16
17 surveillance mechanisms in there” (personal interview, July 7, 2005). Such claims 17
18 could seem outrageous, but there have been enough occasions when Palestinians 18
19 have been killed while using high-tech products. Most famously, bomb-maker 19
20 Yahya Ayyash was killed in Gaza when a cellular phone given him by a Shin 20
21 Bet informer exploded in his ear, while an Israeli airstrike killed Hamas political 21
22 leader Abdel Aziz Rantissi, believed to have been pinpointed through the GPS- 22
23 locator inside a cell phone (Katz 2002). There have also been widespread rumors 23
24 of Paltel public phones blowing up in the Gaza Strip. 24

25 The measures of control outlined above reinforce territorial barriers on high- 25
26 tech flows, inhibit the development of Palestinian infrastructure, and perpetuate 26
27 Gazans’ economic dependence and de-development (and hence the uneven 27
28 economic relationship). Paltel and its subsidiaries have no choice but to purchase 28
29 telecommunications capacity from the Israeli market. That Gazan infrastructure 29
30 is made to rely on the Israeli backbone and suppliers means that Israeli firms 30
31 financially benefit from Palestinian telecommunications uses. Israeli operators 31
32 surcharge calls between Jawwal phones and Israeli land and cellular numbers. 32
33 Since all international calls, all calls to the West Bank, and many intra-Gaza calls 33
34 are routed through Israel, Israeli operators also collect “termination charges.” 34
35 As one Paltel executive lamented in 2006, “Paltel is one of Bezeq’s biggest 35
36 customers.” 36

37 Telecommunications highlights the PA’s and Paltel’s roles as dependent agents 37
38 of Israeli control that have nonetheless been able to profit from the situation 38
39 economically. When one adds to the mix Israel’s “securitization” of all forms of 39
40 borders, the high-tech realm becomes a microcosm of Palestinian/Israeli power 40
41 imbalances. There is room to maneuver, to modernize, and of course room for 41
42 hegemonic interests to accumulate capital, but only if Israeli-imposed limitations 42
43 allow for such room. Inevitably, this not only prevents the full and independent 43
44 development of telecommunications infrastructure, but also serves as a high- 44

1 tech bordering mechanism to prevent or hinder territorial, communicative, and 1
 2 symbolic connections. 2

3 3

4 4

5 **The Power of Digital Occupation** 5

6 6

7 Limitations imposed on high-tech flows have important repercussions because of 7
 8 growing importance of these flows in our globalized world. It is no exaggeration 8
 9 to posit, as do Varnelis and Friedberg (2008), that in globalization's new space 9
 10 of flows "areas and populations outside of this logic are subject to the tunnel 10
 11 effect: they virtually don't exist as far as the networks, and hence, the dominant 11
 12 world economy is concerned." Certainly, Gazans' economic relations—among 12
 13 themselves and to the outside world—are largely determined by Israel, but the 13
 14 "tunnel effect" also indicates how Gaza is both subsumed into the global network 14
 15 and excluded from it—or at best marginalized within it. Either way, it is an 15
 16 ominous example of capital's uneven development. 16

17 As being plugged into the global network becomes more pervasive and 17
 18 necessary, it is access to the network and the flows this network affords that are 18
 19 important. What matters are the points of contact, the junctures, the on-ramps and 19
 20 off-ramps, the lines and cables underground and the towers and spectrum above 20
 21 ground, and, most of all, the control and ownership of all these. Here, it is the 21
 22 Israeli regime and its apparatus (the government, the police force, the military, the 22
 23 intelligence services, the high-tech industry, all with incestuous ties to each other) 23
 24 that is the site of power; the PA, Paltel, Paltel's subsidiaries, and other Palestinian 24
 25 high-tech firms are secondary. It is the Israeli state apparatus that decides whether, 25
 26 when, and where Palestinians may install, manage, and maintain infrastructure, 26
 27 just as it is the Israeli apparatus that limits and destroys that infrastructure. 27

28 Israel's occupation of Gaza has not so much ended as been modified to include 28
 29 the digital spectrum. Bordering Gazans is achieved through "hard" conventional 29
 30 borders even as it is simultaneously diffused and concentrated in the ethereal and 30
 31 "soft" realm of digital infrastructure. Similar to the process of land enclosure, an 31
 32 active landscaping process produces new forms of property rights and different 32
 33 systems of circulation, trespass, and exclusion. Gaza for all intents and purposes is 33
 34 a "real" territorial penitentiary, but also a high-tech one. 34

35 The Israeli "space of power" has become one of indistinction: there is a wall, 35
 36 there are unmanned drones flying around, there is a limited telecommunications 36
 37 infrastructure, and Internet traffic must pass through the Israeli backbone. These 37
 38 are all interconnected so as to create a space of control. Israeli production of and 38
 39 control over Gaza's borders are conventional and new, real and abstract, physical 39
 40 and cyber. Control over both land and high technology defines Israel's spatial 40
 41 containment of Gaza. 41

42 Digital occupation characterizes the pernicious confluence between neo- 42
 43 liberal capitalism and colonialism in actively transforming Gaza's social economy, 43
 44 demography, and culture towards increasing privatization, surveillance, and control. 44

1 On the one hand, both the PA and the Israeli regime benefit from information 1
2 infrastructure: capital accumulation and profit, the semblance of being part of the 2
3 “global network age,” and, certainly from the perspective of the Israeli regime a 3
4 possibility to surveil and control Gaza with as little man-power as possible. On the 4
5 other hand, digital occupation also demonstrates the ways in which information 5
6 technologies are used to strengthen and extend forms of repressive power. 6
7 Ultimately, the relationship between state power and information infrastructure 7
8 remains a historically specific, political, economic, and territorial process that 8
9 cannot be separated from realities on the ground. As this case demonstrates, digital 9
10 networks are designed processes integral in the production of space. 10
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Chapter 5
Leveraged Affordances and
the Specter of Structural Violence

David Karpf and Steven Livingston

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As autocratic regimes across North Africa and the Middle East fell in the spring of 2011, an intense debate erupted concerning the role of digital technology. What explained the dramatic and largely unexpected political upheaval that had erupted in Tunisia, Egypt, Libya, and elsewhere? Several observers pointed to the catalytic effect of digital technologies. Wael Ghonim, the former Google engineer who helped launch an important digital platform of protest in Egypt said, “This is the revolution of the youth of the Internet, which became the revolution of the youth of Egypt, then the revolution of Egypt itself” (BBC News 2011). Not everyone agreed. If digital media led to the overthrow of autocrats in Tunisia, Egypt, and Libya, why did several similar periods of unrest in Bahrain, Saudi Arabia, Yemen, and—as of this writing—Syria fail? What explained the variation in outcomes?

This chapter seeks to formulate an intellectually elegant and balanced framework for understanding *when* and *how* digital technology plays a role in revolutionary political change—and when it does not. Our goal is to replace either/or debates about the role of technology in revolutionary change with an analytical framework that offers conditional statements about technology’s role in revolutionary change. We are interested in boundary conditions—specifying the conditions that lead to successful revolutionary change in some cases, and failure in others. In this endeavor we will limit our focus on only the most extreme kinds of political activism—revolutionary change. To do so, we rely on a *leveraged affordance* model of political change (Earl and Kimport 2011). Following a discussion of leveraged affordances we will illustrate our points with a review of some of the Arab Spring revolts. In such a limited space, we cannot hope to do justice to the complexity of any one of them, much less several. The model we develop is not meant to help situate the role of digital tools within discussions of revolutionary protests.

In sum, our framework contends that the leveraged affordances of new ICTs augment revolutionary mobilization, contingent on three overarching factors: (1) the degree to which central actors use ICTs to “supersize” traditional protest activities; (2) the degree to which national or international media institutions make use of the digital traces left by “theory 2.0”-style protest efforts; and (3) the willingness of authoritarian security forces to adopt violent counter-strategies.

1	Leveraged Affordances	1
2		2
3	An <i>affordance</i> is a quality of an object or environment that allows individuals to	3
4	perform an action (Gibson 1977). A well-designed doorknob, for example, has the	4
5	quality of an object that allows one to open a door. A jet aircraft contributes to a	5
6	quality of an environment that is conducive to high-speed travel over long distances.	6
7	These qualities do not <i>cause</i> actions—you could alternatively use a doorknob as	7
8	a convenient place to hang a jacket—but they make some actions more likely	8
9	than others. An affordance is a key enabler, allowing the possibility of actions	9
10	that would, in the absence of the affordance, be improbable, if not impossible.	10
11	Originating in design studies, the term has been adapted to the field of computer-	11
12	mediated communication. It has recently been used as a conceptual device for	12
13	understanding the effects of digital technology (an affordance) on political actions.	13
14	Jennifer Earl and Katrina Kimport, for example, rely on the concept in their efforts	14
15	to build a new model of protest actions.	15
16	One of the principal benefits of their approach is its move away from a key	16
17	assumption about protest organizations. Traditional models of contentious politics	17
18	assume that protest movements face uniformly high and fixed collaboration	18
19	costs. Collaboration costs are the costs associated with collective actions, such as	19
20	organizing, communicating, and sustaining social movement organizations. The	20
21	larger and more complex the action, the greater the costs, as Mancur Olson (1971:	21
22	48) made clear in his landmark work, <i>The Logic of Collective Action</i> :	22
23		23
24	As group size increases, so, too, do the costs of communication and collaboration.	24
25	(T)he larger the number of members in the group the greater the organization	25
26	costs ... For these reasons, the larger the group the farther it will fall short	26
27	of providing an optimal supply of a collective good, and very large groups	27
28	normally will not, in the absence of coercion or separate, outside incentives,	28
29	provide themselves with even minimal amounts of a collective good.	29
30		30
31	Fixed high costs can be overcome only by one of several means, each	31
32	emphasized by different research traditions. One possible solution is found in the	32
33	expected ideological zeal of oppressed classes, either according to the realizations	33
34	of class-consciousness or at the direction of a vanguard class of revolutionary	34
35	leaders. Literacy, urbanization, working conditions, and the presence of	35
36	charismatic leaders are a few of the conditions that are thought to be important in	36
37	determining the effectiveness of a mobilization (Burks 1961; Street and Leggett	37
38	1961). Effective communication is also a key determinant. "If communication is	38
39	more or less effective, the group is more likely to take some concerted action to	39
40	rectify the grievances" (McCarthy and Zald 1973: 17). Yet communication is often	40
41	costly. In describing the classic model, John D. McCarthy and Mayer N. Zald	41
42	noted, "financial resources are needed to support the propaganda apparatus of the	42
43	movement, to support organizers and leaders, and to procure equipment—from	43
44	mimeograph machines to arms."	44

1 McCarthy and Zald offer an alternative to the classical model, one that focuses 1
 2 on factors that are internal to an organization, such as the professionalization 2
 3 of social movements that occurred in the mid twentieth century. Tarrow (1998) 3
 4 offers yet another school of thought, one that focuses on exogenous resources and 4
 5 opportunities. His political opportunity theory contends that increased political 5
 6 pluralism, a decline in repression, and a lack of elite consensus all constitute 6
 7 opportunities for political change. He describes these political opportunities as 7
 8 “consistent—but not necessarily formal or permanent—dimensions of the political 8
 9 struggle that encourage people to engage in contentious politics.” 9

10 The success or failure of actions undertaken by activists depends on these 10
 11 external factors, and not just the resources a professional organization can muster 11
 12 (Meyer 2004). It also calls for the adroit use of “repertoire of contention” (Tilly 12
 13 1978) by movement leaders. Such repertoires consist of various protest-related 13
 14 tools and actions available to a movement in a given time frame. Other social 14
 15 actors often mimic repertoires. Standard modern repertoires of contention include 15
 16 rallies and demonstrations, sit-ins, petition drives, media campaigns, boycotts, 16
 17 strikes, and innovative combinations. 17

18 All of these approaches share an assumption that collaboration costs are *high* 18
 19 and *invariable*. Those costs must be met by either ideological fervor, organizational 19
 20 prowess in resource mobilization, or political acumen in taking advantage of 20
 21 political opportunities. It is in exactly this area that we suspect the affordances 21
 22 of the Internet to play an important role. In Olson’s time, communication and 22
 23 collaboration costs were indeed high and invariable. ICT’s have radically reduced 23
 24 these costs, *but only under certain conditions*. Following Earl and Kimport, 24
 25 among others (Bimber 2003; Bimber, Flanagin and Stohl 2005; Lev-On and 25
 26 Hardin 2008; Lupia and Sin 2003), we postulate that contemporary collaboration 26
 27 costs are variable from high to vanishingly low, depending on circumstantial and 27
 28 strategic contexts. In particular, *we consider the role of violence and intimidation* 28
 29 *as a countervailing factor to technological affordances*. What digital technology 29
 30 affords, violence and the credible threat of violence and intimidation can negate. 30
 31 To understand our point it is important to begin with a clear understanding of the 31
 32 leveraged affordance model 32

33 Some kinds of protest can be fully contained online, what Earl and Kimport 33
 34 call a *theory 2.0* protest, while other protest actions take only limited advantage of 34
 35 technology, what they call *supersizing*. Theory 2.0 protest actions include online 35
 36 petitions or digital sit-ins. They are based upon the novel affordances and reduced 36
 37 transaction costs of the online environment, and as such do not face the classical 37
 38 Olsonian limitations on large-group collective action. Such protest actions have 38
 39 the benefit of leaving digital traces—tweets, social media postings, YouTube 39
 40 videos, and emails—that can be picked up by the hybrid media system. These 40
 41 protest actions can be limited in their scope, however. If one’s strategic objective 41
 42 involves exercising influence in the physical world, offline actions will remain a 42
 43 necessary component of the repertoire of contention. Supersizing takes advantage 43
 44 of common features of ICT to more efficiently organize traditional protest actions, 44

1 such as street demonstrations and marches. The challenges inherent in organizing 1
 2 a large march in 2012 are very similar to the challenges faced by Civil Rights 2
 3 activists in the 1963 March on Washington. Yet new ICTs simplify the work of 3
 4 large-group coordination. “Supersized” protest events involve a difference in 4
 5 degree, while “Theory 2.0” protest events involve a difference in kind. 5

6 Both types of Internet-enabled protest can yield results. In the United States, 6
 7 the online petition site Change.org has demonstrated a remarkable capacity for 7
 8 converting user-generated online petitions into massive pressure campaigns with 8
 9 real-world results. Change.org has opened multiple international offices and, like 9
 10 the United Kingdom’s Downing Street petition site, allows for a type of effectively 10
 11 organization-less organizing that can rapidly grow to encompass millions of online 11
 12 voices. 12

13 Yet the limits of theory 2.0-style, organization-less collective action become 13
 14 apparent when the goals and targets of the campaign rest within well-formed 14
 15 institutional boundaries. In the United States, Change.org has avoided targeting 15
 16 members of Congress, because those members have well-formed practices 16
 17 responsive to electoral incentives. Likewise, Twitter-based activity cannot alone 17
 18 topple a dictatorship. Rather, theory 2.0-style activism in contentious politics 18
 19 often yields a second-order impact. Activity through social media channels affects 19
 20 international media coverage, providing images and content to international news 20
 21 organizations. Much as Amnesty International’s letter-writing campaigns have 21
 22 succeeded by convincing autocratic regimes that “the whole world is watching,” the 22
 23 digital traces of online activity pressure affect the decisions of media and political 23
 24 institutions, in turn creating pressure on target governments. Simultaneously, 24
 25 revolutionary objectives call for supersized protest efforts, in which new ICTs 25
 26 enable strong ties and weak ties alike. 26

27 What matters most then is not the technology, but rather how people leverage 27
 28 technological affordances. The social impacts of technologies “depend on the 28
 29 extent to which people notice and then skillfully (or less skillfully) try to leverage 29
 30 key affordances” (Earl and Kimport 2011: 33). This position is tied to theories of 30
 31 contentious politics championed by Charles Tilly, Douglas McAdam, and Sidney 31
 32 Tarrow (2001). As noted above, this position focuses on exogenous factors in 32
 33 shaping political opportunity structures while relying on the skills and political 33
 34 acumen of movement leaders in their use of repertoires of contention. Earl and 34
 35 Kimport claim that the increasing availability of outlets for online participation, 35
 36 lead to a new “digital repertoire of contention” (Earl and Kimport 2011: 16). 36

37
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39 **Extending Across Theoretical and Geographic Borders** 39 40 40

41 The literature on the Internet and collective action has focused almost entirely on 41
 42 the domestic context in the US (Bimber, Flanagin and Stohl 2012; Karpf 2012). 42
 43 The United States represents something of an easy case, however. It has a robust 43
 44 civil society sector, an independent media, and a stable government. We contend 44

1 that in addition to variation in activist skills, one must also consider the effects of 1
2 government counterstrategy, particularly when that counterstrategy may include 2
3 intimidation and violence. Variability in collaboration costs are not only affected 3
4 by technologically enabled affordances and the varying skills of protest organizers; 4
5 they are also affected by the ability and willingness of a state or other elites to use 5
6 intimidation and violence to coerce protesters into submission. 6

7 Joyce (2011) has noted the US-centric limitation of Earl and Kimport's 7
8 formulation, which draws upon an implicit qualitative hierarchy of tactical 8
9 skill, placing theory 2.0 actions above supersized actions. Skillful use of digital 9
10 technology is equated with leveraged affordances while unskillful capacities are 10
11 equated with a failure to leverage. This overlooks the possibility that movement 11
12 leaders might choose to not fully leverage digital affordances. Leaders of this sort 12
13 "have noticed the affordance and understand it, but skillfully realize that a digital 13
14 tactic will not be effective in their particular context. That is, they make a *skillful* 14
15 decision *not* to maximally leverage digital affordances." This would seem to be 15
16 the case when revolutionary change is the ultimate objective of the protest action. 16
17 Online action alone is not likely to bring down an autocratic state. But leveraged 17
18 affordances nonetheless prove useful in coordinating resistance movements (Meier 18
19 2012). Similarly, Howard (2011) has found that new ICTs are a necessary, but 19
20 not a sufficient condition for democratization in the Middle East. The affordances 20
21 of new ICTs influence the range of activities chosen by activists, but the causal 21
22 relationship is quite complicated. 22

23 Another criticism of existing leveraged affordance theory targets underlying 23
24 assumptions about the nature of the protest actions and the political environment 24
25 in which they take place. In some important instances, collaboration costs remain 25
26 prohibitively high, even when technologically enabled affordances are present, 26
27 such as when technologically coordinated street protests face the threat of 27
28 extreme physical or psychological hardships. Put another way, Earl and Kimport 28
29 assume an open political space (a political opportunity structure) where protest 29
30 actions are relatively free to select from a menu of repertoires of contention. This 30
31 may be true in some democratic states, but not in most autocratic states. Being 31
32 arrested in most Western democracies is a much different experience than being 32
33 arrested in a non-democratic regime. Protesting in the face of teargas and rubber 33
34 bullets can be harmful, even occasionally deadly. Yet protesting in the face of 34
35 live ammunition and even artillery and tank rounds is altogether different. In 35
36 other words, variability in collaboration costs involves more than the presence 36
37 of technological affordances. It also involves the presence or threatened presence 37
38 of willingly used repressive violence. Even where ICT-enabled collaboration is 38
39 possible, regimes may be able to marshal forces that are willing to use extreme 39
40 and sustained violence against domestic populations, such as when external forces 40
41 are invited in to a country to quell an uprising. Even when the digital traces of 41
42 online action attract international coverage, regimes may remain undeterred when 42
43 selecting a violent response. The result of this is, centrally, the re-imposition of (a 43
44 44

1 different set of) high collaboration costs. The affordance created by ICT cannot be 1
 2 leveraged for fear of the consequences of doing do. 2

3 Whether this is the case does not turn on technology, but rather on the will 3
 4 of people to put themselves in the path of a regime bent on staying in power— 4
 5 leveraged affordances enhance the *tactics and strategies* of social movements. 5
 6 But the end goal of social movement participants involves changes to the power 6
 7 structure. That power structure learns and responds as well—a process Tarrow 7
 8 (1998) terms “innovation and counter innovation.” Leveraged affordances are 8
 9 conditioned by the willingness of a regime to use force and intimidation at a level 9
 10 sufficient to collapse the opportunities created by new technologies. This opens up 10
 11 new and important questions. They do not involve the overly simplistic question 11
 12 of whether digital media “caused” the Arab Spring. Rather, the questions involve 12
 13 contingent conditions: When and under what circumstances can technologies be 13
 14 used to leverage revolutionary change and when can they not? 14

15 For example, what factors influence the willingness or ability of a regime to 15
 16 use extreme violence against its own civilian population? Why do some armies 16
 17 (e.g. Bahrain) shoot while others (e.g. Egypt) refuse? Barry R. Weingast (1997) 17
 18 argues that whether the state transgresses or respects citizens’ wellbeing and rights 18
 19 depends on the depth and degree of citizen cohesion. Perceived ethnic, racial, or 19
 20 religious schisms can be leveraged by the state to its advantage. Protestors can 20
 21 be made a vilified out-group, facilitating brutality and repression. In the cases 21
 22 presented below, this dynamic is quite evident. In other cases one might well 22
 23 imagine (and see) the effects of other exogenous factors, such as powerful allies, 23
 24 technical assistance and inspiration to protest movements from other groups or 24
 25 countries, and even the outsourcing of repressive forces. 25

26 There is also a regime learning dynamic. Having watched and learned from 26
 27 neighboring states, regimes may develop a counter-strategy. They may choose 27
 28 to become brutal at the first signs of unrest. They may engage in deep-packet 28
 29 inspection or create fake social media accounts to identify dissident activities in 29
 30 their nascent stages. If regime opponents learn and adapt based upon peer efforts 30
 31 in neighboring states, we ought to expect that oppressive regimes learn and adapt 31
 32 as well. Where social, religious, or ethnic schemes do not exist, or when the regime 32
 33 is reluctant to leverage them to its advantage, outside forces can be brought in to 33
 34 do the job. As such, successful leveraging of technological affordances in one time 34
 35 and place may make the leveraging of those same affordances in another time 35
 36 and place more perilous. Revolutionary events in Tahrir Square inspired global 36
 37 activists while also serving as a warning to neighboring regimes and their allies. 37

38 Within these competing dynamics, we see a framework for an expansion of the 38
 39 leveraged affordance model. The success of digitally enabled social movement 39
 40 activism in one country does not directly imply its success in others. All protests 40
 41 throughout history have featured the use of the dominant ICTs of the day. What 41
 42 makes contemporary ICTs particularly valuable is their capacity for lowering 42
 43 traditionally high costs of collective action. 43
 44 44

1 In the following illustrations, we argue that three boundary conditions 1
2 determine success. First is the degree to which protest movements can utilize 2
3 ICT to expand the strength and size of their actions. This varies based both upon 3
4 technical infrastructure and population dynamics. In keeping with longstanding 4
5 findings of the social movement literature, some revolutionary movements have 5
6 access to greater resources or stronger political opportunities than others. Second 6
7 is the degree to which media institutions make use of the digital traces left by 7
8 online protest activity. Twitter cannot bring down a political regime, but it can 8
9 play the intermediary role of attracting mass international attention. Third is the 9
10 willingness of the ruling regime to adopt violent counter-strategies. New ICTs 10
11 lower *some* of the high costs of collective action, but regime reactions can raise 11
12 other collaboration costs. What's more, this third variable evolves over time, as 12
13 oppressive regimes in one nation adapt to the digitally mediated experiences of 13
14 other regimes. The following vignettes further demonstrate the importance of 14
15 these variables. 15

16

17

18 **Illustrating Cases** 18

19

20 On January 28, as hundreds-of-thousands of demonstrators demanded the 20
21 immediate resignation of President Hosni Mubarak, Egyptian authorities ordered 21
22 communications and Internet services shut down. Even the country's mobile- 22
23 phone carriers (Vodafone, Mobinil, and Etisalat) terminated operations, plunging 23
24 Egypt back into an earlier technological era, a rapid reversal of an impressive 24
25 growth in capacity. 25

26 By 2011, fast Internet-based ICTs had become relatively accessible in 26
27 Egypt. According to the Egyptian Ministry of Communications and Information 27
28 Technology (MCIT), at the beginning of 2010 the country had over 17 million 28
29 Internet users, a 3,691 percent increase from 450,000 users at the beginning of 29
30 2001. Four million of these users had a Facebook account. One hundred and sixty 30
31 thousand were bloggers. These figures constitute the basis for underscoring the 31
32 importance of the leveraged affordance model for understanding the Egyptian 32
33 revolution in 2011. 33

34 Shutting off access to digital services was met with the disapproval of business 34
35 elites and common Egyptians who needed the Internet and cell phones as much 35
36 as the protesters (El Gazar 2011). The inability and effectiveness of this blocking 36
37 effort is one key factor in understanding the role of ICT in the Egyptian revolt 37
38 against the Mubarak regime. Another important factor is found in what *didn't* 38
39 happen. Government security forces refused to use the full weight of force against 39
40 the anti-Mubarak demonstrators. As a result, the leveraged affordance created by 40
41 ICT remained intact while the imposition of higher collaboration costs through 41
42 violence and intimidation never fully developed. 42

43 There is no question that police and security forces in Egypt were often brutal 43
44 and repressive in the weeks leading up to President Hosni Mubarak's resignation 44

1 on February 11, 2011. Indeed, security forces in Egypt had the reputation for 1
2 brutality well before the demonstrations. It was, after all, the police beating death 2
3 of 28-year-old Khalid Said that sparked the revolt in the first place (BBC 2010). 3
4 Though the exact tally is impossible to determine, the Egyptian Ministry of Health 4
5 said 846 persons died during the protests in January and February (Human Rights 5
6 Watch 2012). 6

7 Many of the deaths occurred on January 28, the “Friday of Rage” when 7
8 protesters confronted security forces in cities across the country. Late in the day, as 8
9 police withdrew from the streets, the military was ordered to assist in controlling 9
10 the growing revolt. Despite the growing presence of the military on the streets 10
11 and a curfew, protests continued throughout the night. Yet, crucially, the military 11
12 refused to obey orders to use live ammunition and tanks to crush the rebellion 12
13 (BBC 2011). Correspondent Robert Fisk described the moment. 13

14 Last night, a military officer guarding the tens of thousands celebrating in Cairo 14
15 threw down his rifle and joined the demonstrators, yet another sign of the ordinary 15
16 Egyptian soldier’s growing sympathy for the democracy demonstrators. We had 16
17 witnessed many similar sentiments from the army over the past two weeks. But the 17
18 critical moment came on the evening of January 30 when, it is now clear, Mubarak 18
19 ordered the Egyptian Third Army to crush the demonstrators in Tahrir Square with 19
20 their tanks after flying F-16 fighter bombers at low level over the protesters. Many 20
21 of the senior tank commanders could be seen tearing off their headsets—over 21
22 which they had received the fatal orders—to use their mobile phones. They were, 22
23 it now transpires, calling their own military families for advice. Fathers who had 23
24 spent their lives serving the Egyptian army told their sons to disobey, that they 24
25 must never kill their own people (Fisk 2011). 25

26 On February 11, Mubarak’s resigned. In the limited space available, we cannot 26
27 fully address the deeper underlying question at the heart of these events: Why 27
28 did the Egyptian military refuse to attack anti-Mubarak demonstrators? For the 28
29 point of our analysis, the central fact is that they didn’t. Part of the answer has 29
30 to do with the culture and structure of the Egyptian military. There is no inner 30
31 circle of specially chosen forces, unlike Bashar Hafez al-Assad’s Syria or Saddam 31
32 Hussein’s Iraq. The officer corps is professional and largely independent, having 32
33 attended the Egyptian Military Academy, as well as college or professional schools 33
34 in Europe or the United States. And while the beating and murder of Khalid Said 34
35 happened under the cloak of anonymity, Tahrir square had drawn the eyes of the 35
36 international media. 36

37 Furthermore, calling Weingast’s analysis to mind, there were no significant 37
38 sectarian splits that could be used to encourage violence against protests. The vast 38
39 majority of Muslims in Egypt are Sunni. Of the total population, 10–20 percent is 39
40 Coptic Christian. Again, the point here is that when the Egyptian military looked 40
41 at the protesters, they had greater reason to see their brothers and sisters and co- 41
42 religionists. 42

43 A similar dynamic had already played out in Tunisia. By 2011, Tunisia had one 43
44 of the most developed and broadly affordable ICT infrastructures in North Africa. 44

1 In March 2010, for example, there were 3,600,000 Internet users, or about 34 1
2 percent of the population (Internet World Stats). There were also about 2,603,000 2
3 Facebook users in June 2011. Like Egyptians, Tunisians had a foundation in place 3
4 to take advantage of digital affordances. The much discussed and central role that 4
5 was played by social media sites like Facebook and Twitter underscore this point. 5
6 On January 13, 2011, as mass demonstrations escalated, Tunisian dictator Zine 6
7 el-Abidine Ben Ali attempted to save his rule by ordering the internal security 7
8 services—the police and the National Guard—to respond with force. As the 8
9 demonstrations continued, despite the police crackdown, Ben Ali promised a 9
10 number of concessions while, at the same time, ordering the military to buttress 10
11 the internal security forces. On January 14 he also declared a state of emergency 11
12 that prohibited gatherings of more than three people while authorizing deadly 12
13 force against those who did not comply (Hanlon 2012). 13
14 The army refused to enforce Ben Ali’s orders. The head of Tunisia’s armed 14
15 forces, Gen. Rachid Ammar, told more than 1,000 demonstrators in a square near 15
16 his office, “Our revolution is your revolution. The army will protect the revolution.” 16
17 It was General Ammar’s refusal to follow orders to fire on civilians that led to 17
18 Ben Ali’s fall from power. In the days following Ben Ali’s departure, the military 18
19 stepped in to control both civilian looters and repeatedly intervened to protect 19
20 civilian protesters from violence at the hands of the police (Kirkpatrick 2011). As 20
21 a special report of the United States Institute of Peace noted, the Tunisian army’s 21
22 inaction makes them stand out in comparison with their counterparts in other 22
23 MENA (Middle East North Africa) nations. They are unique in the region for other 23
24 reasons as well. The Tunisian military, unlike the armed forces of other MENA 24
25 countries, is subordinated to the government and controlled by it. Consequently, 25
26 the Tunisian armed forces never played a political role, nor did they legitimize the 26
27 former regime (Hanlon 2012). 27
28 A fairly cohesive national identity and a decision by military commanders to not 28
29 use force against protesters preserved the revolution. Beginning in 1994, Tunisia 29
30 has been one of the top 20 recipients of US International Military Education and 30
31 Training (IMET) Funding. Indeed, since 2003 Tunisia has been ranked tenth in 31
32 overall funding and is the top IMET recipient in Africa. Over 4,600 Tunisian 32
33 military personnel have trained in US institutions since its independence. Tunisia 33
34 is also one of the few countries in the world that has cadets in all United States 34
35 military academies, plus the Coast Guard academy (US Embassy Fact Sheet). 35
36 Tunisia, like Egypt, has a professional and historically apolitical military that was 36
37 not directly under the control of President Ben Ali’s regime. 37
38 We turn next to an alternative case where leveraged affordance was effectively 38
39 mitigated by the imposition of higher collaboration costs by use of force and 39
40 intimidation. The number of Bahraini Internet users rose from 40,000 (out of 40
41 a population of about 700,000) in 2000 to about 650,000 (out of a population 41
42 of 738,000) by 2010. Put another way, in a decade Internet users rose from 5.7 42
43 percent of the population to 88 percent of the population. By 2010, there were 43
44 over 250,000 Facebook users (Internet World Stats-Bahrian). Overall, the number 44

1 of users jumped by 30 percent, compared with 18 percent growth during the same 1
2 period in 2010. Usage in Bahrain grew 15 percent in the first three months of 2011, 2
3 compared with 6 percent over the same period in 2010 year (Huang 2011). 3

4 Yet, despite these impressive numbers, even before the start of the Arab Spring, 4
5 Bahrain had one of the most severe Internet surveillance and censorship systems 5
6 in the world (Reporters Without Borders 2008). After a January 2009 government 6
7 decree ordering ISPs to implement an official filtering system, an analysis by 7
8 Harvard University's Open Net Initiative found that the filtering of political and 8
9 social content had become what it called pervasive (on a spectrum of X, Y, Z, 9
10 and Pervasive) (Open Net Initiative 2009). The capacity of the state's censorship 10
11 system to contain civil society organizations was decisive during the protest 11
12 period. At the start of demonstrations in Bahrain in mid February 2011, Internet 12
13 traffic dropped by 20 percent due to aggressive government filtering (Glanz 2011). 13

14 But the repression goes well beyond software filter systems. Ali Abdulemam, 14
15 the founder of Bahrainonline.org, a popular alternative news and information 15
16 website, was arrested by Bahrain's National Security Agency in August 2010. He 16
17 disappeared after his release from prison in late February 2011. He and 20 other 17
18 opposition leaders were then tried in absentia in a military court and sentenced 18
19 to 15 years in prison for what the Bahraini authorities described as plotting to 19
20 overthrow the government (Desmukh 2012). Besides Abduleman's arrest, 20
21 authorities imposed a gag order on the media in Bahrain and arrested over 200 21
22 other activists (Toumi 2010). It also suspended Bahrain's main human rights 22
23 organizations (Human Rights Watch 2010). 23

24 The political tensions between the Shia majority and the Sunni minority center 24
25 mostly on the policies of the ruling al-Khalifa family. The ruling Sunni monarchy 25
26 has marginalized the Shia majority, justifying the discrimination by claiming Shia 26
27 loyalties rest with Iran. Still, Shia animosity toward the al-Khalifa royal family 27
28 has more to do with domestic politics and economics. Ironically, some part of the 28
29 explanation rests with the fact that the Shia, who make up 80 percent of the labor 29
30 force, are usually prevented from employment with the security forces, the largest 30
31 source of employment in Bahrain. Prior to 1979 and the Iranian revolution, the 31
32 Shia had staffed the majority of the non-officer positions in the security services. 32
33 The monarchy has also exacerbated tensions by extending citizenship to as many 33
34 as 100,000 Sunnis from Yemen, Syria, Jordan and Pakistan and offering them 34
35 employment in the security services. The regime has also welcomed puritanical 35
36 Salafis into government offices. "These Salafis are Muslims who abhor the Shia 36
37 and often advocate violence against them—as has been the case in Iraq and 37
38 Pakistan" (Sotloff 2010). It seems evident that Bahraini society is rife with serious 38
39 sectarian divides. Located on the western side of the Persian Gulf, its strategic 39
40 significance cannot be overstated. Not only is it home to the United States Navy's 40
41 Fifth Fleet, its conservative Sunni ruling family in a majority Shia population is a 41
42 bulwark for Saudi Arabia against Iran. 42

43 As Shia demonstrations in Bahrain escalated in March 2011, advertisements 43
44 started appearing in Pakistani newspapers. "Urgent requirement—manpower for 44

1 Bahrain National Guard.” Another advertisement said, “For service in Bahrain 1
 2 National Guard, the following categories of people with previous army and police 2
 3 experience are urgently needed.” “Previous experience” and “urgent need” were 3
 4 emphasized. The overwhelming majority of Muslims in Pakistan are Sunni. At least 4
 5 2,500 former servicemen were recruited by Bahrainis and brought to Manama, the 5
 6 capital of Bahrain. This move increased the size of the National Guard and riot 6
 7 police by as much as 50 percent. “Our own Shia cannot join the security forces, 7
 8 but the government recruits from abroad,” said Nabeel Rajab, president of the 8
 9 Bahrain Center for Human Rights (Mashal 2011). 9

10 The protests in Bahrain were largely peaceful until a pre-dawn raid by police 10
 11 on February 17 to remove protestors from a major protest site in Manama. The 11
 12 police crackdown also included night raids in Shia neighborhoods, beatings at 12
 13 checkpoints, and denial of medical care. Approximately 3,000 people were 13
 14 arrested in the initial confrontation. At least five people died due to torture while 14
 15 in police custody. 15

16 Then, on March 14th, Saudi-led forces entered the country (Bronner and 16
 17 Slackman 2011). As *The New York Times* put it, “Saudi Arabia’s military intrusion 17
 18 last year into the micro-sheikdom of Bahrain has effectively made the tiny island 18
 19 the 14th Saudi province” (Jacobs and Khanna 2012). The House of Saud, the 19
 20 anchor of Sunni Arabia, could not afford to allow a Shia revolt on its doorstep. 20
 21 Bahrain’s protest movement was crushed. The affordance created by Bahrain’s 21
 22 flourishing was negated by the brutality of the police and security forces. Bahraini 22
 23 blogger Zakariya Rashid Hassan al-Ashiri ran a website covering news in his 23
 24 village of al-Dair. He was arrested on April 2 and charged with “disseminating 24
 25 false news and inciting hatred.” He died on April 9 while still in police custody. 25
 26 Photos of a brutally beaten body thought to be al-Ashir indicate he was beaten to 26
 27 death (Committee for the Protection of Journalists, 2011). 27

28 A similar story can be told of other revolts across North Africa and the Middle 28
 29 East that failed to leverage the affordance created by ICT. The presence of 29
 30 security forces willing to use extreme violence undermines ICT-based leveraged 30
 31 affordance. ICTs make it easier to “supersize” offline protest events, and can help 31
 32 draw the attention of international media. But these strategic benefits crumble 32
 33 against violent counter-strategy. Whether soldiers and police were willing to pull 33
 34 the trigger was itself often the product of other factors: professionalization of the 34
 35 officer corps, ethnic alignments, and external actors all play a part in determining 35
 36 the use of force against civilian protesters. 36

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39 **Conclusion** 39

40 40

41 We have argued that the debate between cyber-pessimists and cyber optimists 41
 42 misses the point. ICT does indeed create the sort of leveraged affordance described 42
 43 by Earl and Kimport. Offline protest actions can indeed be “supersized” on the 43
 44 back of technological affordances. Social media activity can affect international 44

1 intermediaries. But because people in supersized protest actions must still endure 1
 2 hardships, the nature of the hardships encountered in protest actions remains 2
 3 relevant. In their analysis of leveraged affordances, Earl and Kimport assume a 3
 4 rather unvaried level of physical hardship, as one might expect when considering a 4
 5 protest action in the United States or Europe. One might be arrested and endure the 5
 6 hardships involved with the experience. Of course, during certain periods of US 6
 7 history, the hardships of the Civil Rights Movement or the Labor Movement were 7
 8 sometimes much more serious than a night in jail. On the other hand, the hardships 8
 9 experienced by those participating in the Arab Spring have been sometimes quite 9
 10 extreme. Yet there is variability. In Egypt and Tunisia, the military refused to 10
 11 unleash the full weight of force against fellow Egyptians and Tunisians. In Bahrain, 11
 12 the ruling regime turned to co-religious in other countries to do the dirty work of 12
 13 repression for them. In Syria, we see the same general dynamic of repression. 13
 14 President Assad's inner circle of security forces is drawn from the ranks of fellow 14
 15 Alawites, whereas much of the opposition movement comes from the majority 15
 16 Sunni population. 16

17 During its decades of rule ... the Assad family developed a strong political 17
 18 safety net by firmly integrating the military into the regime. In 1970, Hafez al- 18
 19 Assad, Bashar's father, seized power after rising through the ranks of the Syrian 19
 20 armed forces, during which time he established a network of loyal Alawites by 20
 21 installing them in key posts. In fact, the military, ruling elite, and ruthless secret 21
 22 police are so intertwined that it is now impossible to separate the Assad regime 22
 23 from the security establishment ... So ... the regime and its loyal forces have 23
 24 been able to deter all but the most resolute and fearless oppositional activists. In 24
 25 this respect, the situation in Syria is to a certain degree comparable to Saddam 25
 26 Hussein's strong Sunni minority rule in Iraq (Bröning 2011). 26

27 The leveraged affordance model is useful for the study of revolutionary protest 27
 28 movements, but only once refined to account for these features of strategy and 28
 29 counterstrategy. Digital tools are useful to protestors. They help movements to 29
 30 grow in size and attract international attention. Presumably, regimes are less willing 30
 31 to turn violent against larger crowds while risking international condemnation. Yet 31
 32 the internal calculus of governing regimes is a complicated phenomenon. And the 32
 33 more eager the regime is to respond violently, the less useful new ICTs prove to 33
 34 be. We believe there is compelling evidence in support of the framework, though 34
 35 obviously the interplay of strategy and counter-strategy is a subject for much 35
 36 further and deeper analysis. 36

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PART II
Digital Media and
Political Engagement

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Chapter 6
Technology-Induced Innovation in
the Making and Consolidation of
Arab Democracy

Imad Salamey

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Persistent post-colonial Middle East and North African authoritarianism has long appeared to be the exception of the 'Third Democratic Wave' that ended many autocratic regimes in East Europe and South American countries in the 1980s (Huntington 1991). In notable contrast, monarchic, theocratic and autocratic Middle Eastern regimes, buoyed by sustaining oil revenues and foreign military and economic assistance, have consolidated their respective grips on power while their mass constituencies signaled little or no interest in joining the global trend. In the relative rare events that uprisings occurred, as in Syria during 1982 and Iran in 2009, regimes were generally swift to crush them at least for extended periods. Explanations for the Middle Eastern and North African authoritarian regimes' robustness to the democratic wave have been offered by various oriental perspectives. Cultural views attribute Islamic authoritarian norms and practice as the primary reason behind 'submissive' publics under repressive regimes (Huntington 1993). Economic views focus on the notions of "rentierism" in oil rich countries where government revenues have been able to buy public support (Luciani 2009). Other economic views have associated the widespread informal economies of non-oil producing countries with a weakened middle class and reigning autocracy. International economic perspectives link faulty international economic policies to the undermining of reform movements. Strategic and international security perspectives highlight Western interests in Middle Eastern and North African stability at the cost of potentially unstable democracies (Bellin 2005). Western support to oil-rich monarchies and autocracies underline such views (Salamey 2009). The consequence of these various interpretations is an assumption of strong Middle Eastern and North African authoritarian states ready to use unrestrained coercive force against a weak civil society incapable of achieving collective action or democratic transition (Ulfelder 2005). And there is reason to heed some of these arguments—the dominance of authoritarian ruling elites was manifested in the military and secret services' control over all aspects of civil life and institutions in many cases (Posusney and Angrist 2005; Richards and Waterbury 2008).

1 In light of the 2011–12 uprisings and the subsequent collapse of various 1
 2 Middle Eastern and North African authoritarian regimes, such fearful institutions 2
 3 have been seriously challenged by public protest and armed rebellions. Mass 3
 4 movements have broken the silence, successfully galvanizing dramatic changes 4
 5 through collective action to bring down the long-entrenched regimes in Egypt, 5
 6 Libya, and Tunisia; significantly modifying the regime in Yemen, shaking 6
 7 the foundations in Bahrain before Saudi intervention helped stem the tide, and 7
 8 significantly destabilizing Syria. This begs the question of whether Middle Eastern 8
 9 exceptionalism has been finally deconstructed in favor of a “Fourth Democratic 9
 10 Wave” sweeping the Arab world. What other interpretations are necessary to 10
 11 explain the shortcomings of exceptionalist assumptions and provide grounds 11
 12 for an alternative explanatory discourse to political transition in the Middle East 12
 13 and North Africa (MENA) region? We should be careful not to jump to popular 13
 14 conclusions, or easy to reject existing frameworks—but to more fully understand 14
 15 the changes effecting political liberalization in the Arab Middle East we must be 15
 16 willing to consider new sources and spaces of power and contention. 16

19 **Causes of the Arab Spring** 19

20 20
 21 At least three major political discourses have offered newer interpretations. 21
 22 Political economy views have attributed various causal interpretations to explain 22
 23 weakening Middle Eastern authoritarianism. Most associate political grievances 23
 24 and popular uprisings with autocratic mismanagement and widespread economic 24
 25 corruption (Corm 2012). Evidence is drawn from the corrupt rule and consequent 25
 26 economic disasters brought about by the regime of President Ben Ali in Tunisia, 26
 27 Mubarak in Egypt, Assad in Syria, Ali Saleh in Yemen, and Qaddafi in Libya 27
 28 (Anderson 2011; Wilson 2011). Liberal perspectives, on the other hand, have 28
 29 advocated global democratic values as an overriding cultural system driving the 29
 30 mobilization of youth in demanding the end to dictatorship. Calls for freedom, 30
 31 rule of law, accountability, free and fair election, human rights were among the 31
 32 popular outcry of protesters (Bormann, Manuel Vogt, and Cederman 2012; Gause 32
 33 III 2011; Paust 2012). Liberal values have overwhelmed traditional Islamist 33
 34 views in favor of democratic cultures prioritizing freedom, plurality, and human 34
 35 rights. In addition to political economy and democratic cultural proposals, realism 35
 36 has provided a third international relations perspective. Realism’s views have 36
 37 proclaimed an underlying regional power struggle among rival states. Turkey 37
 38 and Gulf states, on one side, confronting, on the other side, an expanded Iranian 38
 39 influence in Bahrain, Iraq, Lebanon, Palestine, and Syria (Salamey 2009). The 39
 40 EU and NATO have found in Turkey and the Gulf States a common purpose to 40
 41 drive Russia and China out of Libya and North Africa and deter growing Iranian 41
 42 military and nuclear capacities. Along this line of argument is an overemphasis 42
 43 of the role of the military and security apparatuses and an external intervention 43
 44 option in forcing regime change. 44

1 Yet, protesters attributed different motives for their revolts that varied 1
2 according to countries. Evidence of these differences has been revealed by a 2
3 phone survey conducted by the Lebanese American University (LAU) on January 3
4 and February 2012. The survey asked 40 key Arab activists from various political 4
5 backgrounds in Egypt, Libya, Syria, and Yemen a series of questions regarding 5
6 their views about the causes, demands, and mobilization factors that have helped 6
7 the protesters confront their governments. Responses were analyzed and tabulated 7
8 as to reveal common denominators as well as differences. The results identify 8
9 a strong and common liberal orientation of the various movements as reflected 9
10 in their common demands for freedom and fight against corruption. Media and 10
11 ICTs appear to have played a significant and common role in the mobilization and 11
12 organization of protests. Still, however, different country contexts have shaped 12
13 the protest movements differently. Yemeni respondents for example stressed 13
14 economic causes and demands and relied less on ICT in their mobilizations than 14
15 other activists see Table I.1). 15

16 The modes of revolutionary transformations have also varied between mild 16
17 confrontations in countries where the military has taken a passive role, such as in 17
18 Tunisia and Egypt, to extreme confrontation, such as the case in Libya and Syria. 18
19 International interventions and active involvements have also varied between one 19
20 country and another. The claimed causes did not contribute to similar outcomes 20
21 in Jordan, Algeria, Morocco or most Gulf States. Still and critically important 21
22 to this analysis is the question of timing. Why did the events in Tunisia, stir-up 22
23 such a widespread public discontent and snowballing revolutions? For decades the 23
24 same public stood passive under poverty and repression. Events in some countries 24
25 remained nationally isolated without implicating another region or country. So 25
26 why did the impact of repression and grievances become suddenly and widely 26
27 intolerable? Addressing this question may shed light on the new forces driving 27
28 postmodern protest movements, in consolidation with the reasons that have always 28
29 stirred political change in the past. 29

30 When the 27-year-old Tunisian street vendor, Mohamed Bouazizi, set himself 30
31 on fire to protest having his push-cart confiscated by local authorities in January 31
32 2011, this news spread rapidly via public media and Internet communication 32
33 throughout Tunisia and the Arab region. The Bouazizi incident was fast to ignite 33
34 massive protests throughout Tunisia, and soon after, in most Arab states against 34
35 standing regimes. This sparking event stands as a close reminder of the 1991 35
36 Rodney King incident in the United States, which instigated massive protest and 36
37 rioting in several African American populated cities. King, a black resident of Los 37
38 Angeles, was brutally beaten by four white police officers after being arrested 38
39 for a traffic violation. The incident would have passed unnoticed if not for the 39
40 presence of a resident in the area who witnessed and videotaped the beating. A few 40
41 hours later, footage of the arrest was simultaneously transmitted on almost every 41
42 American TV and media outlet. The instant and massive transmission of brutal 42
43 images of the beating was sufficient to exacerbate deep feelings of racial injustice 43
44 that had long incubated with poor and marginalized African American residents of 44

1 Los Angeles. The city was swiftly engulfed in massive and violent protests that 1
 2 lasted several days without the ability of local authorities to control the situation. 2
 3 Both the Bouazizi and Rodney King incidents provide similar lessons. At a critical 3
 4 historic juncture, where resentment against the existing order has been deepened 4
 5 and ripened, the capitulation of the public with a shocking reminder can serve 5
 6 as a rallying call for collective action. In both events, the sensational and wide 6
 7 coverage of news were instrumental in the awakening of deeply held public 7
 8 bitterness. In the case of the Arab revolutions, however, the public's ability to 8
 9 utilize new information technologies in communication to organize public action 9
 10 was an added and important new factor. 10

11 To more fully appreciate why, we must understand the modern information 11
 12 infrastructure, including various technologies such as satellite media, Internet, and 12
 13 mobile technologies that have entrenched widely into Arab societies. After all, 13
 14 the role of innovations has long captured the imagination of political theorists in 14
 15 the explanation of historic transitions that went beyond traditional interpretations 15
 16 (Khun 1962). Developments in weaponry (cannons and dynamites) in the Middle 16
 17 Ages, for example, undermined the castle-based feudal system. Similar innovations 17
 18 in the print machine, textile industry, and steam-powered engine, among others 18
 19 were fundamental aspects in the nineteenth century industrial revolution and 19
 20 the political transformation toward a capitalist economy. Thus, in light of the 20
 21 Arab revolutions, it is worth investigating what roles modern innovations in 21
 22 communication technology have played in the transformation of society away 22
 23 from an outdated state control system. 23

24
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26 **ICTs and the Changing State-society Relations in the Arab World** 26

27

28 Past revolutions and political transformations occurred without relying on 28
 29 advanced information infrastructures. Even during this Arab Spring, the revolution 29
 30 in Yemen against autocratic President Ali Abdallah Saleh erupted without the 30
 31 presence of a sophisticated information infrastructure similar to that that in other 31
 32 Arab spring countries. The point here is to reject reductionism in the making of 32
 33 political transformations (Howard 2011). Advancements in ICTs are not sufficient 33
 34 causes for revolution (Al-Yahyawi 2012; Howard 2010). Many scholars have 34
 35 identified structural drivers and prerequisites for democratic revolutions other than 35
 36 those related to communication technologies (Huntington 1991; Lipset 1959). 36
 37 Traditional means of communication such as local TVs, radios, newspapers, and 37
 38 religious centers have historically served the interests of authoritarian regimes 38
 39 and were only inclusive in the analysis of regime consolidation of power. State- 39
 40 controlled media provided authoritarianism with the ability to monopolize and 40
 41 manipulate access to information, thus preventing the public from having a free 41
 42 voice in communicating its collective grievances. Syrian state-run media outlets 42
 43 under Syria's President Bashar Al-Assad continued to deny existing problems 43
 44 in the country a year after public unrests have claimed over 10,000 lives. Two 44

1 decades earlier, the same mouthpieces of the Syrian regime made no mention 1
2 of the crackdown against the rebellious cities of Hamma and Homs, which are 2
3 estimated to have claimed more than 20,000 lives. 3

4 Innovations in modern communication technology, however, have 4
5 fundamentally altered the relationships between state and society. This can 5
6 be attributed to the development of globally interconnected communication 6
7 infrastructures that has provided publics with affordable, accessible, mobile, and 7
8 interactive connections. In 2010, nearly two billion people worldwide used the 8
9 Internet (Dutton, Dopatka, Hills, Law, and Nash 2011). The rapid transmission 9
10 of information, its diversity, and comprehensiveness have helped destabilize 10
11 traditional structures of control. The interconnectivity of the Internet network with 11
12 other aspects of information transmission related to diverse economic activities 12
13 such as banking and commerce synthesized the decentralization of both economic 13
14 and political activism (Howard, Agarwal, and Hussain 2011). Arab states, such as 14
15 Egypt, failed to shut down the Internet networks during public protests due to the 15
16 dependency of global businesses on its operation. Satellite technology similarly 16
17 undermined state's monopolies and provided the public with multiple and instant 17
18 sources of coverage. The regional and powerful role of the Qatari Al-Jazeera 18
19 network in live broadcasting of Arab protests was crucial in public mobilization 19
20 and reactions. In almost every Arab Spring country, states resorted to shutting 20
21 down Al-Jazeera offices and blocking its transmission (Egypt, Lebanon, Libya, 21
22 Morocco, Syria, Yemen, etc.). The station, however, quickly retaliated by having 22
23 coverage transmitted by activists through their mobile phones and cameras. In 23
24 vain, Arab autocracies in Egypt, Yemen, Libya, and Syria tried to win the media 24
25 war but lost in most encounters. 25

26 Even more significant to this strain of communication innovations is the 26
27 introduction of social media and participatory technologies. The ability for the 27
28 public to instantly interact on a massive level through mobile phones and away 28
29 from the watchful eyes or control of the state using twitter, Facebook, Skype, Viber, 29
30 YouTube, text messaging, etc., hammered the last nail in the coffin of a centralized 30
31 information regime. Not only did the social media announce the liberalization of 31
32 information from state centralization, it has also empowered a new generation 32
33 of "users" who became the young active reporters and organizers of collective 33
34 action. Mobilized through social networks, they required neither elaborate skills 34
35 nor extensive resources to carry out their live broadcasts. Users were easily 35
36 transformed to public informants when they transmitted the news and became 36
37 public leaders when they called for protests (Chatfield, Akbari, Mirzayi and Scholl 37
38 2011). The net result is a paradigm shift in the traditional state-society relationship, 38
39 where revolution in information infrastructure has significantly undermined state 39
40 control over society and paved the way for the radical transformation of politics. 40

41 The establishment of social media had also facilitated the rise of new and free 41
42 cyber-based deliberation forums (Kaplan and Haenlein 2011). They soon became 42
43 occupied by a young, critical and cosmopolitan Internet generation. It is estimated 43
44 that the number of Facebook users in the MENA region doubled from 11.9 million 44

1 to 21.3 million in 2010 and to 45 million in 2012 (Arab Social Media Report 2012). 1
2 The prevalence of bloggers, Twitter feeds and Facebook pages among Middle 2
3 Eastern and North African youth helped open the discussion about traditionally 3
4 sensitive topics such as sex, gender rights, political freedom, human rights and 4
5 religion, among others. This moved intellectual and political discussions away 5
6 from the watchful eye of the state and religious authorities, effectively dismantling 6
7 the state's traditional monopoly on information. Ahlam Mosteghanami, an 7
8 Algerian feminist and critical intellectual, gathered 193,059 likes on her Facebook 8
9 and her daily statuses invited the critical discussions of thousands, with even 9
10 more visiting her official website frequently. YouTube videos were also easily 10
11 and quickly produced, downloaded and distributed to hundreds of thousands 11
12 around the globe. As a result, youth empowerment reached unprecedented levels 12
13 of intellectual maturity in defiance of the authoritarian parapet. Unconsciously, 13
14 the divinity of the ruling elites began to break down in the Arab world's largest 14
15 and most central state, with public consciousness growing firm in the direction of 15
16 realizing a modern and transparent elected civil state (Salamey and Pearson 2012). 16
17 Innovations in information infrastructure have, therefore, provided crucial 17
18 affordances in expediting the deconstruction of Arab authoritarianism. The 18
19 emergences of new information regimes that favor diverse, affordable, 19
20 accessible and interactive systems of communication have made political 20
21 transformation possible in previously unimaginable ways. However, the ability 21
22 of authoritarianism to cope with the antithetical information regime system is 22
23 yet to be unraveled. Many Arab monarchies have already begun to reconstruct 23
24 their national information infrastructure. Their efforts aim to introduce alternative 24
25 and sophisticated centralization mechanisms to control and filter information 25
26 and search engines. A virtual defense wall prevents 'unfriendly' exchanges in 26
27 many countries with sophisticated filtering and blocking software. The Iranian 27
28 theocracy has established Internet control units to analyze and track users' 28
29 activities (Stepanova 2011). Other regimes' efforts have been made to orchestrate 29
30 state-sponsored counter-Internet propaganda campaigns and wage cyber-attacks 30
31 against dissidents' blogs and websites. In July 2012 Russia passed a law to create 31
32 a blacklist of websites deemed as "extremists." The British government has 32
33 attempted to draft a communications bill that would produce a system of blanket 33
34 collection and retention of all online data (Kampfner 2012). China has succeeded 34
35 in imposing many restrictions on Google and forced the company to comply with 35
36 the government constrains. Most recently, Islamists have been mobilizing support 36
37 to censor and ban Google and YouTube after an immature movie depicted Prophet 37
38 Mohammad in offensive roles was shared globally on the Internet. 38
39 Yet, despite continued efforts to reformulate conservatives' and states' control 39
40 of the information infrastructure, and consequently over society, their ability to do 40
41 so has been significantly eroded. New innovations are destined to emerge and new 41
42 generations of users will continue to overcome obstacles and restrictions. Howard 42
43 (2011) observes that "in this global, digital media environment, it is going to be 43
44 increasingly difficult for the strong men of North Africa and the Middle East to rig 44

1 elections. It will also be increasingly difficult to suspend democratic constitutions 1
 2 and pass power to family members.” This is not only because new innovations have 2
 3 strengthened public oversight, but also due to new information infrastructure that 3
 4 has decentralized political leadership and ruled out requirements for charismatic 4
 5 populist politicians (Chatfield, Akbari, Mirzayi and Scholl 2011; Salamey and 5
 6 Tabar 2012). Thus it is contingent for newly emerging democracies to protect 6
 7 the right to freedom of information as well as to consolidate a newly established 7
 8 decentralized information regime. They need to examine new ICT policies 8
 9 backed by constitutional amendments that can guarantee users’ digital rights to 9
 10 free electronic networking, protect the rights to surf and exchange information, 10
 11 preserve web privacy, and provide for data protection. Important developments in 11
 12 this domain are visible in cases like Tunisia and Lebanon, but are also fraught with 12
 13 counter-movements even within these regimes. 13

14

15

16 **ICT Policies in Arab Democracies** 16

17

18 Dutton et al. have identified several policy dimensions essential for countries 18
 19 seeking to comply with digital rights. They include: access, freedom of connection, 19
 20 freedom of expression, equality, freedom of information (FOI), privacy, and data 20
 21 protection (Dutton, Dopatka, Hills, Law and Nash 2011). Several states have been 21
 22 quick to adopt new laws and regulations pertaining to freedom of expression on 22
 23 the Internet and the foundation of a new liberal information regime. In 2000, 23
 24 Estonia was among the pioneering countries that stipulated legal state obligations 24
 25 to provide access to electronic information and services. In 2008 it passed personal 25
 26 data protection legislation, and in June 2009, the French Constitutional Council 26
 27 followed by ruling that the freedom to access ‘public online communication 27
 28 services’ was a basic human right. In July 2010, Finland similarly pronounced 28
 29 broadband Internet as a fundamental human right (Finnish Ministry of Transport and 29
 30 Communications 2010). Most recently, Latin American countries show movement 30
 31 in similar ways: in September 2010 Costa Rica’s constitutional court announced 31
 32 that the Internet was also a fundamental right and mandated the government to 32
 33 provide universal access for all (Argüero 2010), while the Argentinean province 33
 34 of San Luis passed a law guaranteeing all citizens the right to free Internet access. 34

35 There are also encouraging policy steps being taken to advance freedom 35
 36 and access to information in the MENA region. There have been partial reforms 36
 37 introduced in Tunisia and Morocco that provide citizens with greater access to 37
 38 information (Almadhoun 2012). Yet, Arab governments have remained slow to 38
 39 introduce relevant legislations particularly those pertaining to ICT infrastructure. 39
 40 Policy reforms in this area have remained exclusively confined to Northern and 40
 41 Western democratic states. A particular challenge in Arab states is a traditional 41
 42 legal framework that views laws as a means for the preservation of rule and order 42
 43 rather than that of serving the interests of the people. This historical and structural 43
 44 deficiency continues to antagonize the public and economic interests with that of 44

1 the ruling autocracy. While the former seek laws that liberalize and decentralize 1
2 the information infrastructure, the latter strives for the opposite. 2

3 Admittedly, the complexity of MENA states and societies, and the powerful 3
4 coercive apparatus of authoritarian regimes were significant factors in delaying 4
5 democratic transformations for many years (Posusney and Angrist 2005). Yet 5
6 the Arab Spring has called for a dramatic political transformation in Arab states 6
7 and societies. Understanding the causes and dynamic of contemporary protest 7
8 movements is critical in the deconstruction of the Middle Eastern exceptionalism 8
9 hypotheses. Among the lessons learned from the Arab spring is that revolutionary 9
10 outbreaks cannot be understood in terms of incidental or sudden eruptions, but as 10
11 an accumulation of structural causes and instrumental developments (Salamey and 11
12 Pearson 2012). Revolutionary expressions can only fully blossom when both the 12
13 structure and means for change are simultaneously established. The Arab Spring 13
14 demonstrates how structural economic and political crises along instrumental 14
15 innovations in media and the ICT have converged to spark protests and accelerate 15
16 the downfall of outdated authoritarian regimes. 16

17 Beyond their role in accelerating the revolutionary outbreaks, innovations 17
18 in global communication technology have turned economic, political, and 18
19 cultural liberalization of state-society relations into an imperative outcome. 19
20 Economic development, for example, has come to be linked to the formulation 20
21 of a decentralized communication and information regime. One of the historic 21
22 revelations of the Arab Spring, perhaps, is that regimes defying such a trend are 22
23 destined to fall. Military strength and international balance of power emerged as 23
24 insufficient requisites for state survival. A state's capacity to cope with the globally 24
25 liberalized and decentralized ICT trends became an important determinant 25
26 of political power. It seems no longer the case that states' military, economic, 26
27 social, or international policy agendas can be formulated irrespective from that 27
28 of its communication and information infrastructure. A new epoch in political 28
29 discourse appears to have been unleashed where communication and information 29
30 infrastructure innovations have extended the various existential requirements of 30
31 the state. 31

32 Emerging democracies and transitional states have many challenges to 32
33 confront, including the task to replace the dysfunctional political and legal 33
34 frameworks with alternative transparent and representative political institutions. 34
35 The decentralization of power and control is emerging as an essence for world 35
36 politics where globally interactive and informed citizens along an integrated 36
37 economy determine to a large extent the fate of the state. For the Arab world, 37
38 the establishment of a new ICT infrastructure that preserves access, freedom of 38
39 connection, freedom of expression, equality, freedom of information, privacy 39
40 and data protection will be among the main policy challenges. A partnership of 40
41 stakeholders consisting of civil societies, economic interests, and those of the state 41
42 may represent a suitable forum to advance a liberal and decentralized ICT policy 42
43 platform. 43
44 44

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Chapter 7

Al-Masry Al-Youm and Egypt's New Media Ecology

David M. Faris

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12 This chapter presents a case study of the Egyptian media system to explore 12
13 the nature of the digital ecosystem and its implications for authoritarian media 13
14 systems more generally. Despite the success of authoritarian regimes like Iran and 14
15 China in tightly controlling digital space and closing down spaces for repression, 15
16 digital media often contribute to long-term movements toward democratization in 16
17 seemingly unpredictable ways. In the Middle East and the broader Muslim world, 17
18 research supports the idea that the diffusion of digital media has strengthened 18
19 democratic movements and practice, notably through improvements in civil 19
20 society and citizen journalism (Howard 2011). The idea that technology diffusion 20
21 strengthens democratic movements was supported by the events of the Arab 21
22 Spring, in which Internet-based organizing tools played significant roles in the 22
23 uprisings. Tufecki and Wilson (2012), find that those who attended the first day of 23
24 the Tahrir Square protests in Egypt on January 25th were overwhelmingly likely to 24
25 have Internet access at home, and that a significant share of protestors heard about 25
26 the events through social media first, primarily Facebook and Twitter (Tufecki and 26
27 Wilson 2012). 27

28 Others have argued that citizen journalism played a decisive role in 28
29 transforming media environments (Khamis and Vaughn 2011) or that in both 29
30 the Egyptian and Tunisian uprisings, a decade of digital activism laid the 30
31 groundwork for successful campaigns (Hussain and Howard 2011; Faris 2012). 31
32 Studies asserting a limited role for digital media in these uprisings are in an 32
33 observable minority (e.g., Aday et al. 2012). Some of the campaigns during 33
34 the Arab Spring were successful in changing regimes, while others were 34
35 not; the exact trajectories do not concern us here because they concern other 35
36 architectures of political control and civil-military relations. The aim of this 36
37 chapter is not to determine the circumstances such movements might succeed, 37
38 but rather to ask how digital media change repressive media environments even 38
39 when the regimes take significant steps to interfere, control, or co-opt digital 39
40 spaces. I use the case of Egypt to examine how social media can broaden and 40
41 deepen democratic discourses even in cases where journalists themselves are 41
42 threatened. This study was inspired and informed by ethnographic fieldwork 42
43 with the Egyptian independent daily newspaper *Al-Masry Al-Youm*, 18 months 43
44 prior to the Arab uprisings. 44

1 Prior to the January 2011 uprising, journalists at *Al-Masry Al-Youm* and other 1
 2 independent journalists operated in environments that international observers 2
 3 considered at most “partly free” (on a scale of free, partly free, to not free). Other 3
 4 observers maintained an even more conservative view of the Egyptian digital 4
 5 environment. Mohamed Abdel Dayem, coordinator of the Committee to Protect 5
 6 Journalists Middle East and North Africa Program, wrote in 2010 that, “Judging by 6
 7 what’s transpired in recent weeks, press freedom in Egypt is in a deplorable state” 7
 8 (Dayem 2010). The Committee to Protect Journalists, and numerous other NGOs, 8
 9 condemned the 2010 sentencing of Wael Abbas, a popular and international- 9
 10 renowned blogger, critical for his work in breaking stories of torture and police 10
 11 abuse in Egypt, to six months in prison in March 2010. Other abuses of press 11
 12 freedom in Egypt include the ongoing imprisonment of blogger Abdul Kareem 12
 13 Nabeel Suleiman Amer, and the repeated and persistent arrests of bloggers as well 13
 14 as digital activists organizing through Facebook. 14

15 The Egyptian context was not as dangerous to journalists as more repressive 15
 16 contexts, perhaps because state power can sometimes be checked by a willing 16
 17 judiciary (Waisbord 2002). But pre-2011 Egypt was widely regarded as a repressive 17
 18 environment to practice political journalism. Reporters Without Borders ranked 18
 19 Egypt 143rd out of 175 countries in its annual report for 2009 (“Press Freedom 19
 20 Index 2009”). Comparatively, Egypt was a more dangerous place to be a journalist 20
 21 than Morocco, for instance, but much safer than Tunisia or Syria. However, the 21
 22 repression of high-profile journalists and activists does not tell us much about 22
 23 the actual discursive environment in which these actors are challenging state 23
 24 power. Rather, the way that Egyptian journalists moved seamlessly from personal 24
 25 blogs and media platforms to those of corporate-funded ventures, all the while 25
 26 effectively operating independently, suggested important and un-coopted digital 26
 27 spaces for the expression of political opinions. 27

28
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30 **The Rise of Multi-dimensional Media Systems** 30

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32 As of 2009, of 195 media systems in the world, 125 were either “not free” or 32
 33 “partially free.” Despite the increasing attention paid to non-democratic media 33
 34 systems, particularly in the Middle East and Asia, scholars have yet to adequately 34
 35 and conceptually define such a system’s basic parameters and characteristics. In 35
 36 democratic media systems, Becker has argued “it is the responsibility of a mass 36
 37 political media system to provide information to citizens to participate in processes 37
 38 of governance” (Becker 2004: 145). In such systems neither the state nor a small 38
 39 number of private market players should dominate the information marketplace, 39
 40 lest they limit the diversity of viewpoints and exclude voices from the public 40
 41 sphere. Scholars also note the importance of strong government institutions for 41
 42 the proper functioning of a democratic media system. As Waisbord argues, “the 42
 43 state remains a central institution for ensuring basic conditions for the functioning 43
 44 of the press” (2002: 106). In authoritarian media systems, then, the media exists 44

1 primarily to advance the goals of the state and to serve the authoritarian regime's 1
 2 goals of stemming the flow of information and preventing ordinary citizens from 2
 3 having access to unfiltered information. For such regimes, "control of information 3
 4 is critical to maintaining power" (Price 2002: 17). Typologies of authoritarian 4
 5 media systems date to the 1950s and Seibert et al.'s famous (and problematic) 5
 6 framework of the four types of media systems: the *libertarian*, *authoritarian*, 6
 7 *social responsibility*, and *Soviet communist* models. Contemporary world politics 7
 8 have rendered this popular typology largely outdated, but no contemporary 8
 9 definitions of authoritarian media systems have yet reached scholarly consensus, 9
 10 particularly given the fragmentation of the media ecology since the adoption of 10
 11 digitally-mediated spaces. 11

12 Traditional media systems before the digital age were two-dimensional. One 12
 13 was the print media—largely corporate-controlled or state-controlled, heavily 13
 14 financed and steered by a relatively small elite of editors and writers. The 14
 15 other was radio and broadcast television, also quite amenable to state control. 15
 16 Thus, the height of the broadcast, mass-media era—the 1950s, to the 1970s— 16
 17 also represented the zenith of authoritarian control over media content. While 17
 18 challenges have been made to closed systems by enterprising pamphleteers or 18
 19 cassette-makers (Hirschkind 2006), the state could and did effectively control 19
 20 information. This is true for several reasons: the production of mass media during 20
 21 this period required heavy fixed investments—printing presses, offices, and large 21
 22 staffs of reporters and editors. This heavy cost of entry into the media environment 22
 23 led to media owners and authoritarian regimes quickly and successfully asserting 23
 24 their control in the period following the end of European colonialism. 24

25 Egypt was a relatively free-wheeling press environment during the Interwar 25
 26 period and after the Second World War, when the country was still ruled by an 26
 27 increasingly unaccountable monarchy. In 1952, the Free Officers revolution 27
 28 brought a military junta to power. While initially promising greater freedoms and 28
 29 democracy, the regime instead consolidated its control over all sectors of political, 29
 30 cultural and economic life. There is little evidence to suggest that international 30
 31 radio broadcasts seriously disrupted domestic politics during this period. Both 31
 32 radio and television continued to require enormous fixed costs to operation and 32
 33 because of those costs the state was able to control them (Rugh 2004: 181). The 33
 34 situation remained more or less unchanged for decades, with each segment of the 34
 35 broadcast system serving different but synchronized functions. As Castells argues: 35
 36 36

37 Until recently, and even nowadays to a large extent, the media constitute 37
 38 an articulated system, in which, usually, the print press produces original 38
 39 information, TV diffuses to a mass audience, and radio customizes the 39
 40 interaction. (Castells 2008) 40

41 41
 42 This began to change, however, with the introduction of satellite broadcast 42
 43 television in the late 1980s and the 1990s. Satellite television ushered an era in 43
 44 which authoritarian media systems were subject to unwanted involvement by 44

1 external media actors—in the Middle East by the widely-documented advent of 1
2 the television station Al-Jazeera, which broadcasted frank reports and discussions 2
3 of Arab political events directly into the homes of citizens across the region— 3
4 citizens who normally did not have this kind of access to news and dissent about 4
5 their own societies. The effects of that penetration have never quite been quantified, 5
6 however, and are not without their critics. Kern and Hainmueller, for instance, 6
7 argue that East Germans exposed to West German media before the fall of the 7
8 Berlin Wall were more supportive of communism (Kern and Hainmueller 2009). 8
9 In Egypt, the political environment was not quite as authoritarian as that in East 9
10 Germany, but the state did try to prevent citizens from free access to information. 10

11 However, as the different dimensions of authoritarian mass media previously 11
12 represented differences in degree, the introduction of the Internet represented a 12
13 difference in kind: a fourth dimension to authoritarian media systems. In short, 13
14 the Internet brought with it the age of media *multidimensionality*. The Internet 14
15 has augmented the dimensionality of authoritarian media systems in several ways. 15
16 First, it increases the reach of newspapers, and allows globally-produced newspaper 16
17 information to penetrate state borders (Lynch 2006). It allows diasporas, exiles, 17
18 and other members of the community to participate in politics in ways previously 18
19 unimaginable (Brinkerhoff 2009). In the context of Burma, for instance, the 19
20 Democratic Voice of Burma functioned “as an archive of public memory in a 20
21 context where all political expression, including songs and popular political satire 21
22 carry heavy penalties of imprisonment” (Pidduck 2012: 550). Digital media also 22
23 allowed for access to the public sphere by political, religious, or ethnic minorities, 23
24 who have otherwise been excluded from public deliberation (Faris 2010). Perhaps 24
25 most importantly, it has wired citizens, even in authoritarian states, with the ability 25
26 to form their own media outlet. Castells refers to this as a process and “rise of 26
27 self-communication” (Castells 2008). Rather than serving as passive recipients 27
28 of information in newspapers, or at best, as letter-writers or the lucky chosen few 28
29 of the call-in satellite talk shows, the Internet allows citizens to co-produce and 29
30 mediate information in direct and personal ways. While the state may still arrest 30
31 individual writers or block web sites, the Internet and mobile technologies make 31
32 it more difficult to shut down the *pathways of dissent*. For example, Mubarak’s 32
33 regime arrested bloggers and disrupted social media web site selectively, but there 33
34 were always others writing and distributing information critical of the state and its 34
35 affairs. Digital media tools, in the hands of ordinary citizens, made it possible for 35
36 citizens to document and challenge abuses by the state by capturing images and 36
37 videos of transgressions, and making them public information. 37

38 The Egyptian press environment prior to the uprising of January 2011 was much 38
39 more open than one would gather from most media freedom rankings, particularly 39
40 because they focus on outdated standards, and particularly because they neglect 40
41 the important ways in which digital media have provided safe and self-powered 41
42 alternatives. Both digital media and independent media outlets (which are quickly 42
43 becoming interdependent and overlapping) have presented routine challenges 43
44 to state power, and practitioners in both systems are subject to interference and 44

1 harassment by state authorities. The Egyptian media system under Mubarak was 1
 2 thus a battleground where set-pieces about democracy, the proper reach of state 2
 3 authority, the scope of civil and political rights, and disagreements about foreign 3
 4 policy were performed much more rigorously than over-reading definitions of 4
 5 authoritarian media systems might suggest. To explore this important issue, it is 5
 6 important to consider a prototypical example of such professional yet independent 6
 7 media outlets present in contemporary Egyptian politics. 7

8 8
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10 *Al-Masry Al-Youm* and the Challenge to Egyptian State Media Hegemony 10

11 11
 12 *Al-Masry Al-Youm* emerged in 2004, after a loosening of press laws in Egypt that 12
 13 coincided with the Bush Administration's short-lived period of democratization 13
 14 in the Middle East. No coherent theoretical rationale has successfully explained 14
 15 why the Egyptian state at this particular juncture decided to open its press system 15
 16 to media outlets which almost immediately began to offer readers more critical 16
 17 evaluations of state policies than had traditionally state-run media. However, the 17
 18 events of 2003–6 do suggest strongly that authoritarian regimes react to pressure 18
 19 from their primary patrons, in this case the United States (Brownlee 2008). Unlike 19
 20 most newspapers in Egypt, which either are operated indirectly by the state, 20
 21 like the flagship state paper, *Al-Ahram*, or by the licensed political parties, *Al-* 21
 22 *Masry Al-Youm* offered a model which had not been seen in Egypt in decades—a 22
 23 privately-financed company staffed by journalists and editors who appeared to be 23
 24 independent from the state security apparatus. *Al-Masry Al-Youm* was followed 24
 25 in short order by the founding of the opposition weekly *Al-Dustur*, which was 25
 26 widely regarded as having an Islamist bent, and the daily newspaper *El-Badeel* in 26
 27 2008, a left-leaning, secular outlet sympathetic to the burgeoning labor movement. 27
 28 Collectively these outlets comprised an entirely new sector in the Egyptian print 28
 29 environment—the independent press. 29

30 Collectively these papers were instrumental in breaking or giving in-depth 30
 31 coverage to countless stories that put the government in a bad light and which 31
 32 originated in the country's rich and vociferous blogosphere—from the torture 32
 33 scandal originally broken by the blogger Wael Abbas, to the sexual harassment 33
 34 of women in downtown Cairo, and more recently the killings of Baha'is in an 34
 35 Upper Egypt village, and the fatal police beating in June 2010 of Khaled Said 35
 36 (his murder would spark a Facebook movement that contributed heavily to the 36
 37 uprising). Journalists at these papers often worked hand-in-hand with bloggers— 37
 38 who were even more willing to cross the so-called red lines of Egyptian journalism 38
 39 (Faris 2010a). Some of these bloggers eventually came to work for *Al-Masry Al-* 39
 40 *Youm*, and some *Masry* journalists have their own blogs. *Al-Masry Al-Youm* was 40
 41 a pioneer in creating digital content in Egypt prior to the uprising—years before 41
 42 the events of January 2011, the paper had transformed itself into a hypermedia 42
 43 operation, complete with video journalists and an extensive online archive. This 43
 44 last point is crucial. Even if a reporter for a paper was arrested, his article was 44

1 likely to be left online for anyone to see. The digital components of *Al-Masry* 1
2 *Al-Youm* reinforce the idea that we cannot artificially separate digital media from 2
3 traditional (broadcast) media. 3

4 One of the primary stories told to push the narrative of an Egyptian media 4
5 environment descending into greater repression in the years 2007–10 was the arrest 5
6 and imprisonment of *Al-Dustur* editor Ibrahim Eissa over reports of President 6
7 Mubarak’s death in the summer of 2007. Eissa’s trial followed closely on the heels 7
8 of the 2007 sentencing of four newspaper editors to prison for “defaming” President 8
9 Mubarak and his son Gamal. Rumors of the President’s ill health and possible 9
10 demise swept through the Egyptian public sphere late July of 2007, facilitated 10
11 by text-messaging and social media (Faris 2008). Press outlets—particularly 11
12 those in the independent press—aggressively pushed this story line and openly 12
13 inquired about the health of the president and his whereabouts. It certainly did not 13
14 help matters that Mubarak himself went into a kind of occultation for weeks and 14
15 made no public appearances, leaving the stage open for various performances of 15
16 concern, celebration, and speculation. The newspaper that ran with this story most 16
17 aggressively was *Al-Dustur*, the independent paper that had recently transitioned 17
18 from a weekly to a daily paper. Its editor, Ibrahim Eissa, wrote a widely-read daily 18
19 column in which he skewered the hypocrisy, corruption, and ineffectiveness of the 19
20 Egyptian state. His dispatches, no doubt irksome to those in power, were allowed 20
21 to be printed with little interference until the emergence of panic concerning the 21
22 health of President Mubarak. The state, claiming that rumors of the president’s 22
23 death negatively impacted the state’s standing in international markets, arrested 23
24 Eissa and charged him with spreading false rumors, one of the few press red lines 24
25 to survive the opening of the press environment in 2004. The state blamed all sort 25
26 of potentially interested parties for the rumors, including *bête noirs* Hamas and 26
27 of course the Zionists (Lynch 2007). The crisis came to an end when Mubarak 27
28 himself finally made a public appearance on August 30th, although there were 28
29 some who questioned the legitimacy of the resulting video. 29

30 If the media situation in Egypt is in serious decline *systemically*, as Freedom 30
31 House indicates, one would expect that decline to be borne out in available 31
32 statistics. For instance, if newspapers were reporting on torture in 2008, and the 32
33 situation has declined, one might expect there to be less reporting on torture in 33
34 2009. Or if journalists are getting in trouble for reporting rumors about President 34
35 Mubarak’s health in 2007, one might expect journalists to stop speculating about 35
36 President Mubarak’s health, for fear of their own safety and to ensure that they 36
37 remain free to do their other work. Yet reporting on both torture and the health 37
38 of President Mubarak continues to take place at significant rates in *Al-Masry* 38
39 *Al-Youm* and in digital media. Bloggers continued to speculate about Mubarak’s 39
40 death, and *Al-Masry Al-Youm* continued investigating rumors of Mubarak’s ill 40
41 health. This is not to say that the legal environment for journalists was not also 41
42 in decline, as Freedom House claims, but rather that both of these things can co- 42
43 occur simultaneously. 43

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1 We can also see this by comparing coverage of the 2007 Death Crisis reportage 1
2 and the reports of the president's illness in July 2010. If there was, in fact, a 2
3 chilling effect on journalists of the 2007 Eissa affair, we should be able to see it in 3
4 the 2010 coverage. Yet Ibrahim Eissa himself—who spent time in prison precisely 4
5 for reporting on Mubarak's health—devoted an entire column to addressing 5
6 the question of Mubarak's health. Unlike reporting in the official press, which 6
7 typically concludes with platitudes, like "He was full of energy. May God grant 7
8 him good health," Eissa took the president head-on and suggested that he was too 8
9 old to capably lead the country (Attalah 2010). 9

10 Journalists at *Al-Masry Al-Youm*, *Al-Dustur*, and *Al-Sharouq* covered the story 10
11 as well. Mohamed Amin exclaimed in disgust, "There is no information!" and 11
12 blamed the president and the secrecy surrounding his health for the persistence 12
13 of rumors (2010). Columnist Osama Haykel claimed that "the intensity of the 13
14 controversy is greater this time [than in 2007]" (Haykal 2010). Over the course 14
15 of the crisis, *Al-Masry Al-Youm* ran dozens of stories and published videos—from 15
16 news items to man-on-the-street interviews to op-eds—about the president's 16
17 health. All of these items existed online even when Eissa was in prison and when 17
18 journalists everywhere were probably fearful for their safety if they contributed to 18
19 this debate. These hybrid print-digital artifacts were largely impervious to regime 19
20 interference, since no one tried to take down the paper's web site, and if they had, 20
21 there was an army of bloggers and digital activists waiting to excerpt, re-post or 21
22 Tweet the content. 22

23 What this refusal to end speculation suggests is that the Egyptian media 23
24 system itself was largely impervious to state repression of individual editors and 24
25 journalists, and that digital activists and journalists were leading the charge in 25
26 crossing red lines. The system is able to maintain a *contested multidimensionality*. 26
27 Pathways of public dissent, even when interrupted by state repression, were 27
28 quickly rerouted to other press outlets, or even to the same outlets where new 28
29 editors and writers stepped into the line of fire and risked their own persecution for 29
30 the cause of open dissent. Digital media enable this multi-dimensionality. 30

31 First it ensures that offending stories live on in Google caches, or more 31
32 typically on the sites themselves, where they are rarely if ever removed by Egypt's 32
33 comparative technically weak censorship strategy (in contrast to China's). The 33
34 best Egyptian newspapers either have already transformed themselves into 34
35 hypermedia entities—complete with blogs, videos, and interactive, participatory 35
36 content, or exist only online to begin with. The Egyptian independent press, despite 36
37 constraints, was one element of this multidimensionality. Bloggers continued to 37
38 write about Mubarak's health, and about his possible death, including a well- 38
39 trafficked Facebook page called "Mubarak is Dead." The digital media were a 39
40 source of constant rumor-making, speculation and rumination about Mubarak's ill 40
41 health and the future of Egypt after his death. And the willingness of digital activists 41
42 and traditional reporters to cross red lines and to investigate state misbehavior 42
43 reinforced one another in a mutually constitutive way that could be seen most 43
44 clearly when bloggers, Facebook activists and independent journalists at *Al-Masry* 44

1 *Al-Youm* and elsewhere all seized on the story of Khaled Said's unjust death in the 1
2 summer of 2010. The Facebook group *We Are All Khaled Said*, and general disgust 2
3 with the practices of the Egyptian police, would be a major contributing factor in 3
4 the uprisings (Snider and Faris 2011). 4

5 Egypt is a peculiar authoritarian environment in the way that it has incorporated 5
6 the Internet. The regime made little effort to interfere with content on the Web 6
7 directly, through keyword filtering or blocking. Other authoritarian regimes in the 7
8 region have learned from the Egyptian regime's decision not to close down its 8
9 media system. Bahrain, for instance, also witnessed an uprising in the winter of 9
10 2011. But with the help of Saudi and Emirati troops and a sophisticated digital 10
11 filtering and surveillance system, the regime was able to maintain its grip on 11
12 power (Mitchell 2012). Since 2011, that same regime has moved aggressively 12
13 against all journalists. The country's 2002 Press Law imposed harsh restrictions 13
14 on journalists who violate the country's red lines, and those measures have been 14
15 even more punitively enforced since the Arab Spring began. Yet, despite ranking 15
16 definitely as "Not Free," Freedom House notes, "the Bahraini media's coverage 16
17 of news and politics is more critical and independent than reporting in most other 17
18 Gulf countries" (2012). For example, the arrest of the owner of an online news 18
19 organization called Rasad News in Bahrain, like many similar outfits in Egypt 19
20 and Tunisia, is effectively a Twitter and Facebook based boutique media outlet. 20
21 While the Bahraini regime did shut down the pages, Rasad News was operational 21
22 again with a new Facebook page, and actively pursuing its critical work. Digital 22
23 entrepreneurs and their partners in Bahrain's independent press seem willing to 23
24 press on in spite of repression, and the costs for doing so are significantly alleviated 24
25 with the mass diffusion of participatory social media platforms. 25

26 Standard indices of press freedom have failed to capture some of the dynamism 26
27 and individual agency characterizing contemporary authoritarian media systems, 27
28 like Egypt's. The recent history of the Egyptian media system indicates that digital 28
29 technologies were crucial factors in creating a general climate of dissent and 29
30 criticism that went beyond official regime determined red lines. Our understandings 30
31 of authoritarian media systems have focused too heavily on state responses and 31
32 policies, and not enough on the ability of individual journalists and activists to 32
33 produce and share content with their fellow citizens. Enterprising journalists and 33
34 digital activists have contributed to long-run changes in political systems, even 34
35 while facing political repression. Future research must further investigate the 35
36 content of authoritarian media systems more openly, and more closely consider 36
37 the ways that individuals can now create, share, and act upon political information 37
38 on social media platforms, as well as the ways those platforms may and may not 38
39 effectively escape state control. 39
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Chapter 8

Communicating Politics in Kuwait

Fahed Al-Sumait

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10 Since the Arab uprisings that began in December 2010, scholars, pundits, and 10
11 policymakers have given considerable attention to the role of digital media 11
12 technologies in facilitating political change across the Middle East. However, 12
13 prior to those momentous events such technologies were already altering the 13
14 political landscape in several countries within the region. In this chapter, I describe 14
15 one such country, Kuwait, and the ways in which oppositional political actors 15
16 have been utilizing digital technologies in tandem with other localized venues 16
17 for several years to circumvent mass media obstacles, interact with constituents, 17
18 mobilize activism, and ultimately contest specific forms of power. I concentrate 18
19 primarily on a time period preceding the Arab uprisings by drawing on insights 19
20 from key political actors in Kuwait, where a constitutional monarchy has been 20
21 incrementally ceding power to one of the oldest and most autonomous of Arab 21
22 parliaments.¹ I focus on three groupings that represent significant political forces 22
23 in both Kuwait and the region and whose discourses are increasingly influencing 23
24 public sphere debates and, consequently, impacting political dynamics. 24

25 Analysis of the Arab Middle East tends to focus on political hotspots, leaving 25
26 in-depth discussions of peaceful, indigenous political change—such as that 26
27 found in Kuwait—largely absent from mainstream discourse. Yet, Kuwait is a 27
28 particularly interesting case to examine with regard to the issues of political power 28
29 and information infrastructure. This constitutional emirate—with a population of 29
30 2.6 million and about 10 percent of the world’s oil reserves—has the region’s 30
31 longest existing democratically elected legislature and some of its highest levels 31
32 of per-capita media usage (Al-Roomi 2007, Mellor 2005). It is often described 32
33 among the most free of Arab states, with significant development toward political 33
34 liberalization (Al-Roomi 2007, Brown 2009, Rizzo 2005, Salem 2008, Tetreault 34
35 2000). In 1938, Kuwait became the first Arab country to experiment with a formal 35
36 consultative council called a *majlis* (Herb 1999), and in 1961, it established the 36

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40 ¹ Most Arab countries have some form of parliamentary or congressional council, 40
41 though their degree of legislative power or even formal consultative role is generally 41
42 limited in comparison to Kuwait or to more advanced democracies. There is an Arab Inter- 42
43 Parliamentary Union which was established in 1974 and on which 21 Arab countries plus 43
44 Palestine have representatives. However, like the vast majority of its individual members, 43
44 the union itself has limited powers or influence. 44

1 Gulf's first constitution. These efforts at political liberalization have been achieved 1
 2 with little violence or continuous external pressures to democratize. 2
 3 Kuwait's media conditions are also indicative of a relatively robust information 3
 4 infrastructure for the Arab Middle East. The country is continually ranked among 4
 5 the most free of media environments in the region (Freedom House 2012, Reporters 5
 6 Without Borders 2010, 2011). Local newspapers and satellite stations are partisan 6
 7 and often driven more by political interests than economic concerns which, 7
 8 for example, helps explain why its per-capita distribution of local newspapers 8
 9 is nearly three times that of any other Arab country. Mobile phone penetration 9
 10 exceeds the population by a ratio of 3:2 and its percentage of Internet users is in 10
 11 the top third percent among all Arab nations (Central Intelligence Agency 2009, 11
 12 Internet World Stats 2011, Mellor 2005). With regards to social media, Kuwait's 12
 13 percentage of Facebook users is second among all Arab countries and, despite 13
 14 its small population, the country currently generates more tweets than any other 14
 15 (Arab or non-Arab) Middle Eastern nation, except Turkey (Mourtada and Salem 15
 16 2012). In short, it stands out as a well saturated, vibrant and largely free media 16
 17 environment in a region known for persistent authoritarianism and media controls. 17
 18 In addition to its distinctions, Kuwait's struggle with political liberalization 18
 19 reflects similar and important dimensions in nearby states: mixed Sunni and 19
 20 Shi'a Muslim populations; an economy reliant on natural resources; a hereditary 20
 21 monarchy; entrenched tribalism and other identity-based political groupings; and 21
 22 a rapidly changing media environment. Like the entire Middle East, information 22
 23 and communications technologies are rapidly diffusing. Widely available and 23
 24 affordable satellite television has already changed the nature of regional political 24
 25 and social debates (Eickelman and Anderson 2003, Lynch 2006, Seib 2007) and 25
 26 Internet expansion continues to open opportunities for social networking, political 26
 27 blogging, information access, and even political change (Bunt 2003, Hofheinz 27
 28 2007, Howard 2011, Wheeler 2006). Such conditions are as important in Kuwait 28
 29 as they are in the broader region. In short, Kuwait represents a combination of 29
 30 both unique and shared elements with neighboring countries, making its analysis 30
 31 important in itself and simultaneously relevant to larger discussions about 31
 32 information infrastructure, political power and, ultimately, the process of political 32
 33 liberalization. 33
 34 To demonstrate this, I describe the various communication channels, or means, 34
 35 by which three important identity groups within the country's opposition send 35
 36 and receive messages to and from the Kuwaiti public. My intent is to illustrate 36
 37 how information infrastructure and political power intersect within the country's 37
 38 broader communicative environment. In-depth examination of such an environment 38
 39 inevitably involves other important facets, such as political messaging and 39
 40 targeting strategies, public opinion and reception, factors of political economy, 40
 41 the social and cultural context, and so forth, which are not dealt with here. That is 41
 42 to say, focusing exclusively on the medium can only tell part of the contemporary 42
 43 political story about Kuwait or the region, though I argue it is an important part 43
 44

1 of a larger narrative concerning government opposition forces and the evolving 1
2 nature of their political communication within the Middle East. 2

3 The findings presented here are based on in-depth interviews with 51 political 3
4 actors over a 10-month period beginning in June 2010. I categorize the respondents 4
5 according to three primary groupings: Islamists, liberals and female politicians.² In 5
6 terms of their (former or current) positions, the interviewees represented numbers 6
7 approximating 40 percent of Kuwait's legislature and half of the cabinet (of a 7
8 unicameral 50-member legislative assembly and 16 ministers per cabinet), as well 8
9 as civil society leaders, political activists, academics, journalists and the leaders of 9
10 each major political "party." Thirty percent of the respondents were Shi'a, which 10
11 is roughly representative of the national composition, and just over 40 percent 11
12 were female, which is similar to their representation in the country's workforce. 12
13 All were Kuwaiti citizens ranging in age from the late 20s to the 70s. What follows 13
14 are their descriptions of the traditional and digital forms of communication they 14
15 use to interact with citizens and promote their political agendas. 15

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18 **Traditional Communicative Means** 18

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20 I segment the following analysis according to two overarching communication 20
21 mechanisms: *traditional* and *digital*. The traditional is comprised of conventional 21
22 means found in most political environments—mass media, personal networking, 22
23 lobbying, etc.—as well as time-tested provincial means unique to Kuwait and 23
24 similar Gulf countries—*duwaniyyas*, religious gatherings, and social events. 24
25 That is followed by a digital section that describes the growing use of new 25
26 media technologies with an emphasis on generational and gender differences. 26
27 As I will demonstrate, each of the groups examined has adapted the available 27
28 communication means to their particular needs, with more marginal groups— 28
29 such as youth and women—effectively supplementing traditional politicking 29
30 with innovative workarounds, of which digital media technologies are playing an 30
31 increasingly critical role. 31

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37 ² I focus on these three categories of actors who are defined according to their *primary* 37
38 self-expressed political identity. Islamists are an assorted force but unified in explicitly 38
39 defining their political agendas through their Muslim identities. Self-described liberals, 39
40 represent a long-standing force in Kuwaiti politics often characterized by their calls for 40
41 secularism, formal political parties, and improved minority rights. Female politicians are 41
42 included due to their rapidly growing, though still marginal, role in Arab politics. While 42
43 significant contributors to public sphere debates, it should be noted that each group, like any 43
44 conception of "a public," has porous boundaries and participants are not always exclusive 44
44 to a single domain.

1 Conventional Media

2
3 Print and broadcast sources were the most commonly relied-upon forms of 3
4 conventional media in Kuwait, though respondents described these as heavily 4
5 partisan. Such partisanship can be an advantage for organizations that share 5
6 political orientations with particular outlets, but since the largest partisan position 6
7 is pro-government, opposition groups had more difficulties than advantages in 7
8 this domain of the media environment. One analyst described it this way: “The 8
9 number of newspapers is far greater than the capacity of Kuwait, but most of these 9
10 newspapers are political. They are politically motivated ... The thing is, if you 10
11 want to see the media at large, most of the media, especially the TV [stations], 11
12 are clients of the government. So there is a problem.” A respondent from a liberal 12
13 political organization elaborated on the condition: “Listen. Three-quarters of the 13
14 newspapers in Kuwait are not government-controlled, but [are] government- 14
15 friendly. And they block most of our work. And in this day and age, you cannot 15
16 reach the public face-to-face only. You need the media to reach the people. And 16
17 we have a problem with the media. They are not a free and open media.” Such 17
18 partisanship is an obstacle for all opposition groups in Kuwait, but since women’s 18
19 political organizations and female candidates held a wide variety of political 19
20 orientations, they were not systematically deprived of media coverage based on 20
21 ideological grounds to the degree claimed by many of the Islamists and liberals. 21
22 Beginning with Islamists, these groups had limited media outlets directly 22
23 affiliated with their political views, so they often supplemented their direct 23
24 media communications—such as press releases and public statements—with 24
25 pseudo-events created to garner media attention. The nature of such gatherings 25
26 vary in location, size, and even the titles associated with them—rallies, lectures, 26
27 conferences, and so on—but they follow a common pattern of public assembly 27
28 in which political figures give impassioned speeches and statements on amplified 28
29 podiums about current issues directed at both the attendees and the media. The 29
30 leader of a Shi’a group and seven-time Parliament Member (MP) discussed his 30
31 organization’s efforts to reach people through these events; both directly and via 31
32 the associated media coverage. “We have to go down to the streets ... If we have 32
33 any problem or issue we can [reach] the streets by using the media and radio- 33
34 stations and TV. We do this with [public] conferences every one or two weeks. 34
35 We announce that ‘these people will come and speak and if anyone has questions 35
36 they can come and ask him’.” In a sense, these gatherings functioned somewhat 36
37 like continuous campaign speeches with multiple speakers. They also carried the 37
38 opportunity for personal networking with attendees. 38
39 As an added benefit for holding these events, media regularly turned out to 39
40 cover them as news stories, thus amplifying the group’s messages. This interviewee 40
41 continued: “We are using these [public lectures] very effectively with the TV 41
42 stations, which are the private stations, and the newspapers. [The media] come 42
43 each time ... We want something that people not only hear, but see repeatedly, 43
44 so the picture will remain in [their] head all the time.” Other Islamist groups 44

1 described a similar process. Here, a prominent member of a conservative Salafi 1
 2 Alliance explained the mass media's indifference toward his group's messages and 2
 3 how they use regular public lectures to get around these. "[Journalists] are saying, 3
 4 'Okay, say what you want to say, but we will not take this [issue] as our matter, 4
 5 our problem' ... So we also hold [public] lectures ... This is how to reach [the 5
 6 people]. And the media, they show these [events]." In such a manner, the Islamists 6
 7 and others depended on journalists' systemic attraction to news events, even if 7
 8 reporters did not ascribe to the content of the communicated messages. The net 8
 9 effect is that some degree of coverage was afforded despite ideological obstacles 9
 10 in the press. 10

11 Liberals, too, employed such public presentations to reach people and the 11
 12 press, but since they are less cohesive as a formal group than many of the Islamists 12
 13 organizations, they were less consistent at drawing regular media attention. One 13
 14 long-time liberal explained how traditional oppositional groupings of liberals began 14
 15 the practice of public lectures decades ago, which others later adopted. "We were 15
 16 one of the first groups to start holding meetings outside of *duwaniyyas*³ [during 16
 17 an unconstitutional parliamentary suspension in the 1980s], so the government 17
 18 cannot control it ... It developed and now everyone is using this [approach of 18
 19 public lectures]. Now they are more sophisticated. These days they use a lot of 19
 20 gadgets [like podiums, microphones, TV screens, and social media coverage]." 20
 21 He went on to explain how these were only part of a broader strategy liberals used 21
 22 to reach the public. "We also go through newspapers, especially the opposition 22
 23 newspapers [to reach the public] ... and then direct contact through *duwaniyyas* 23
 24 and civil society groups like the graduate society, trade unions, and so on." Civil 24
 25 society organizations were frequently described by all groups as key targets of 25
 26 political messages, but as noted here, they also served as a type of communication 26
 27 venue to supplement efforts through the news media and public lectures. 27

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30 Provincial Forums 30

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32 A second important group of traditional communicative mechanisms are 32
 33 commonplace in Kuwait. I characterize these as provincial to draw attention 33
 34 to their local origins. I am not, however, suggesting that these are somehow 34
 35 unsophisticated, as the colloquial use of the term sometimes denotes. In fact, the 35
 36 opposite is the case; these localized mechanisms of communication are highly 36
 37 sophisticated and personally tailored to great effect. Given their localized nature, 37
 38 provincial channels were employed regularly by males. However, women were 38
 39 at a distinct disadvantage here. To illustrate both the shared and unequal forms of 39
 40 provincial communicative means I first discuss the most common elements and 40

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42 ³ *Diwaniyyas* are mainly family-owned gathering places central to Kuwait's social 42
 43 and political atmosphere. They vary considerably in formality, function, and composition 43
 44 but are a regular part of social life for the majority of Kuwaiti men. 44

1 then demonstrate the unique obstacles faced by women, as well as some of the 1
2 solutions they adopted to overcome these. 2

3 Both funerals and weddings double as opportunities for political networking 3
4 and two-way communication. As in most Islamic societies, funerals and weddings 4
5 are public events at which people offer condolences or congratulatory messages to 5
6 entire families. In Kuwait, both events are regular social “obligations” for many 6
7 Kuwaitis and especially the male gatherings are announced in the daily newspapers, 7
8 publicized through text services, and spread by word-of-mouth. In the case of a 8
9 death, relatives observe a three-day mourning period wherein they receive visitors 9
10 for condolences. Even if one only knows an extended family member of the 10
11 deceased, it still is considered appropriate to show respect by attending the ritual. 11
12 These events are held in gender-segregated spaces that accommodate a large 12
13 number of visitors, traditionally in a duwaniyya or other large hall. Upon arrival, 13
14 guests shake the hands of the deceased’s close family and offer their condolences 14
15 before sitting with the other guests for an unspecified period of time. In a similar 15
16 fashion, part of the traditional wedding ceremony is usually held in a hotel hall, 16
17 outdoor tent, or other large space. Any male who knows either side of the family 17
18 will often attend. Like the funerals, guests first shake the hands of the groom’s 18
19 close family members and then mingle with other guests, usually over a buffet 19
20 dinner. As with the funerals, these events are a culturally specific opportunity for 20
21 face-to-face interaction between the elected and electorate. Most notably, during 21
22 the mingling periods politicians are frequently approached by other attendees to 22
23 discuss issues of concern. 23

24 Since both events are part of social life in Kuwait, political actors utilize 24
25 these opportunities to interact with the general public. One former minister, in 25
26 his sixties, explained the frequency with which he attends such events, which was 26
27 common for the average male of his generation and status. “I go to maybe 10 or 27
28 15 condolences a week and maybe two to three weddings.” He then elaborated on 28
29 the political capital to be gained. “MPs like to go to the weddings because they 29
30 meet so many people. It is a free gathering with a free dinner. It is worth going to 30
31 because [the MP] will get their photos taken with the groom’s family and it might 31
32 be in the newspaper the next day. And the family will keep the photo forever to 32
33 remember that MP came to their wedding ... With the condolences, [politicians] 33
34 still go even if [they] are not close to the family. It shows a gentle psychological 34
35 touch. It’s good PR.” 35

36 Beyond the publicity associated with these events, they are also opportunities 36
37 for politicians to explain their initiatives. A Salafi MP stated: “Of course, we have 37
38 to go to the condolences. We have to visit people, either in the hospitals or at 38
39 the weddings. And this is one of the ways that we are contacting people ... and 39
40 also some of [the attendees], they come and ask questions, ‘what is going on in 40
41 the Parliament,’ and I have to explain.” A four-time independent MP described 41
42 yet another benefit of these events. “Sometimes we get comments, very good 42
43 comments, great comments—let me say—in the weddings. When we stop in any 43
44 reception, some guys they give me their opinions. And also sometimes when I 44

1 go to condolences they sit beside me and they say maybe two words, but these 1
 2 two words are very important for us ... All these things I do normally [as social 2
 3 obligations], I also get [political] feedback.” The combined benefits of good public 3
 4 relations, occasions to explain initiatives, and opportunities to collect valued 4
 5 feedback allowed these almost-obligatory social events to double as effective 5
 6 provincial communicative mechanisms. 6

7 Another localized means of communication are the *duwaniyyas* themselves. 7
 8 Every male with a political position interviewed for this research described these 8
 9 as a primary means for interacting with the public. These family-owned spaces 9
 10 function as sites for condolences and sometimes wedding receptions. They are 10
 11 used to socialize, organize, and campaign. They help people share, and expose 11
 12 one another to, competing political views, and they form the backbone of Kuwait’s 12
 13 interpersonal communicative infrastructure among men (Al-Roomi 2007). In short, 13
 14 a great deal of social and political life in Kuwait occurs in and around the country’s 14
 15 *duwaniyyas*. As one MP and former minister aptly summarized: “*Duwaniyyas* are 15
 16 our life.” Another quote from a Salafi Islamists was characteristic of most people’s 16
 17 descriptions. “I have my own *duwaniyya* every Saturday. So sometimes about 17
 18 100 to 200 people come every week, they enter the *duwaniyya* to either say hello 18
 19 or they have some problems that they want me, of course, to help them with. Or 19
 20 sometimes I get new ideas [from attendees]. Of course, I also visit *duwaniyyas* 20
 21 almost every day.” Thus, for male politicians these are among the most important 21
 22 venues in the country and cannot be overstated. 22

23 Women faced at least two distinct disadvantages by not regularly participating 23
 24 in *duwaniyyas*. They did not have the same opportunities to interact with large 24
 25 segments of the population as did their male counterparts, and women’s issues 25
 26 were less likely to be discussed in these male-dominated spaces. Women did, 26
 27 however, have some exceptions and alternatives. Beginning with the exceptions, 27
 28 in the last elections female candidates increasingly campaigned in *duwaniyyas* to 28
 29 present their agendas and get feedback from male attendees. One of the female 29
 30 MPs, who wore a traditional hair covering (*hijab*), talked about her initial concerns 30
 31 in attending these forums. “Especially in the last elections [of 2009], more men’s 31
 32 *duwaniyyas* were welcoming women with certain positions, mainly MPs. When I 32
 33 was running for election, I was very reluctant to enter men’s *duwaniyyas* for the 33
 34 first time. I was really questioning myself. ‘What should I wear? Should I dress the 34
 35 way I usually do or wear the Islamic *abaya*.’⁴ I don’t want to offend [the men]. I 35
 36 don’t want to embarrass myself, so I was a bit reluctant. But now I enter the men’s 36
 37 *duwaniyyas* the same way I am entering the women’s *duwaniyyas* or the mixed 37
 38 *duwaniyyas*, and people are accepting me the way I am.” 38

39 Another female MPs took a different track. “Even when I ran for the parliament, 39
 40 I decided not to go to the *duwaniyyas*. This was my decision. I even announced it 40
 41 _____ 41

42 4 An *abaya* is a black body-covering worn by traditional Muslim women that goes 42
 43 over the clothing and symbolizes modesty. It does not cover the hair or face but it does 43
 44 cover everything from the shoulders down, including the arms. 44

1 [publicly]. I talked with my family and a number of people. Because of our family 1
 2 [honor], I decided not to go to duwaniyyas. But if I get a private invitation, I do 2
 3 go ... but I did have different kinds of gatherings with women and men, [or just] 3
 4 women. Sometimes I had such gatherings in NGOs or in some public areas. So 4
 5 I meet people everywhere.” This strategy had limitations in comparison to other 5
 6 candidates, but the fact she won a seat suggests that avoiding duwaniyyas was 6
 7 not a guarantee for failure. Her success might be due, in part, to the alternative 7
 8 communicative options women employed. 8

9 Indeed, women have some exclusive social forums that female candidates 9
 10 have used effectively as communicative means. A third female MP described these 10
 11 as a direct counter to the male duwaniyyas: “Way back to the first establishment 11
 12 of Kuwait, the duwaniyya was there, and at that time, definitely, the duwaniyya 12
 13 is okay for men. But women, they have their own gathering inside the houses 13
 14 at special hours of the day, usually in the early morning about this time, where 14
 15 they’ll call it [midday tea] and again before sundown.” The earlier female tea 15
 16 sessions were mainly the domain of older, non-working women, but the younger 16
 17 generations were more accessible at the evening tea sessions. A campaign manager 17
 18 for one of the successful female MPs explained how they used these along with 18
 19 existing female social networks to rally support for her candidate. “We had [our 19
 20 candidate] visit many duwaniyyas and spend time at our [campaign] headquarters, 20
 21 but we also had her meet with the older women at afternoon tea, because many 21
 22 women they have nothing [to do] in the day. So they go to [afternoon tea] and talk 22
 23 and spend time with friends ... Some women also had the [religious gatherings] 23
 24 in their homes [to talk] about the *Quran* and the *hadith*. We had good success 24
 25 with these.” In such a fashion, women candidates gained some advantages over 25
 26 their male counterparts. Whereas women could increasingly participate in male 26
 27 duwaniyyas, men did not have the option of visiting women’s tea or religious 27
 28 sessions. This may not have been enough to counter the intrinsic disadvantages 28
 29 women faced with regard to the duwaniyyas, but it was an innovative attempt 29
 30 to work around the problem. However, an even more important communicative 30
 31 workaround employed by all the successful female candidates—as well as many 31
 32 of the men—was an increased reliance on digital media technologies, to which I 32
 33 now turn. 33

34 34
 35 35
 36 **Digital Communicative Means** 36
 37 37

38 In 2006, a popular movement erupted which sought to change Kuwait’s electoral 38
 39 districts from 25 to 5. The existing districts divided the polity in such a way that 39
 40 state-sponsored clientelism—the exchange of votes for money or favor—and the 40
 41 dominance of specific groups in key districts made it relatively easy to influence 41
 42 electoral results. A five-district division was seen as a path to fairer representation 42
 43 and less gerrymandering. What was especially noteworthy was that this change 43
 44 was driven by an independent youth movement and facilitated by digital media 44

1 technologies. One of the young bloggers behind the movement illustrated the 1
 2 mobilizing capacity of these technologies with his telling of the events. "I'm a 2
 3 blogger to begin with. So it all started with the blogs and interactions that you have 3
 4 with your readers ... So when the issue [of redistricting] was discussed within 4
 5 parliament, naturally I picked up on it in my blog, and started writing and writing 5
 6 about it, and with that, creating levels of frustration among the readers ... So 6
 7 from that came the website *Kuwait5.org*." Using his website and blog, this activist 7
 8 and his colleagues developed customizable content to maximize the effect of their 8
 9 political message. "We basically had easy steps on how you can get involved in 9
 10 the campaign. We had parliament members who we wanted to pressure ... and 10
 11 we had different options to contact them, email if they had an email, or fax, or 11
 12 SMS messages, or calling them. And you had the choice of what you wanted. And 12
 13 when you click on the option you wanted, you'd get a script that says exactly what 13
 14 you have to do." Following their success in spreading the message of a need to 14
 15 redistrict, the online activists eventually began physically mobilizing people. "And 15
 16 it picked up really well ... and it was tremendous. Pressure was directed exactly 16
 17 where we wanted it, but then you reach a point that the people want more. So then 17
 18 we started with the rallies ... so with this, coupled with pressure from outside, we 18
 19 started driving people to the first rally. We managed to get 250 people, and from 19
 20 one rally to the other it kept building. We came up to 3,000 [demonstrators] at 20
 21 some point." This so-called "orange revolution" has been noted for its innovative 21
 22 use of technology (Salem 2008, Tétreault 2006) and its success encouraged other 22
 23 Kuwaitis to take note of the power of online activism. 23

24 Cases like this demonstrate how digital media technologies are playing an 24
 25 increasingly political role in Kuwait. By digital media, I refer to the various forms 25
 26 through which digital information is transmitted using electronic technologies, 26
 27 such as the Internet, mobile communications equipment, and satellite television. 27
 28 Of particular interest here are media over which political actors exert a significant 28
 29 degree of control in the creation and distribution of messages. This includes Internet- 29
 30 enabled platforms like websites, blogs, emails, and social networking sites, as well 30
 31 as hand-held technologies such as cell phones. Digital technologies have had a 31
 32 variety of effects on the growth and forms of political activism around the world 32
 33 (Bennett 2007, Bennett 2008, Hick and McNutt 2002, Norris 2000) and are seen as 33
 34 central to the creation of a public sphere and the process of liberalization in Muslim 34
 35 countries (Eickelman and Anderson 2003, Howard 2011, Lynch 2003, Seib 2007). 35
 36 Both digital activism and liberalization are also evident in Kuwait, where political 36
 37 actors are progressively turning to new media to circumvent conventional media 37
 38 obstacles, target specific segments of the population, and contribute to a more 38
 39 robust public sphere. With regard to these digital media, two noteworthy patterns 39
 40 were evident among the groups interviewed. Islamists and liberals were divided 40
 41 in their utilization of these technologies, mainly along generational lines, while 41
 42 women, regardless of generation, embraced them with potent effect. 42

43 43
 44 44

1 Generational Differences

2
 3 Both Islamists groups and liberals were heavily split along generational lines in 3
 4 their descriptions about the effectiveness of digital media for communicating with 4
 5 the public. Older members were generally less apt to utilize these, even if they 5
 6 recognized their growing importance. An elder member of the Salafi Alliance and 6
 7 three-time MP declared: “Not yet, we’re not so active [in the use of digital media]. 7
 8 We will be. Some of our young people used this in the last election to counteract the 8
 9 smear campaign [against us] that some people thought the government used. But 9
 10 this is something that I intend to make better use of next time [there is an election], 10
 11 to organize for it.” Likewise, an elder figure in a Shi’a alliance acknowledged the 11
 12 importance of new media in general, but his group had yet to make a concerted 12
 13 effort to tap its potential. “Because of the technological revolution, the whole 13
 14 world is just like a small crystal ball. With the iPhone and Google you can get 14
 15 almost any information. Everything ... We have a website [for our group], and 15
 16 there are some people who look at this, but this is not very advanced until now. It’s 16
 17 not very effective.” While such actors gave lip service to the importance of digital 17
 18 media, they were not priorities in their communication arsenal. 18

19 A long-time figure in the liberal movement and former five-time MP was in 19
 20 agreement with the older Islamists when asked about digital media. “It is there. 20
 21 It is being used now. But what role or how effective the influence is in political 21
 22 activities, though, is questionable. Their effects in promoting democracy or in 22
 23 political activities are limited because [the people who use these technologies] are 23
 24 dispersed. It’s mostly individualistic and I don’t see any coordinated efforts [by 24
 25 political groups] to use these yet.” Even if this particular political figure did not see 25
 26 coordinated new media efforts, they did exist in Kuwait and around the region. In 26
 27 fact, despite older politicians’ general lag in adopting these technologies, a growing 27
 28 number of Kuwaitis were turning them—especially the younger generations. 28

29 Not surprisingly, younger political actors were the most likely to talk about, 29
 30 and demonstrate, the political importance of digital media. The youngest Salafi 30
 31 member in Parliament responded this way when asked if he used new media: “Of 31
 32 course! We have our own divisions [of volunteers] in these areas, and for myself, 32
 33 I also have to follow up and to answer the questions which are raised by either the 33
 34 Facebook or the Twitter every day. And especially the emails. But for the Twitter 34
 35 and Facebook, because they don’t wait, so I deal with them immediately. Of course 35
 36 the SMS is also very important.” The leader of the liberal National Democratic 36
 37 Alliance, in his early 40s, confirmed the value of new media for his group. “We’re 37
 38 trying to reach [the public] by the new trend, which is social networking, the 38
 39 Internet, by Facebook, Twitter, and blogs, and by face-to-face [interaction], and 39
 40 inviting people [to lectures through these means]. When we have an event here, 40
 41 we start using Twitter and Facebook and blogs and [text] messaging services to 41
 42 reach the people, as much as we can.” He then discussed how these technologies 42
 43 sometimes generated interest even beyond the intent of his group. “I’ll give you 43
 44 an example. We had an event here and we invited some of the MPs to talk [about a 44

1 specific issue] but we didn't open it to the public. What we did, we sent messages 1
 2 to our members through our email system and SMS. And some people who got 2
 3 this message put it on Twitter and Facebook and stuff, retweeting it. Without even 3
 4 putting any certain advertisement about it, we had around 600 people here [for 4
 5 the lecture]." Both of these political actors, and others of their generation, worked 5
 6 directly to tap into the potential of new media. These technologies helped generate 6
 7 crucial feedback, community interactions, and general publicity. As the opening 7
 8 story to this section demonstrated, they also held great potential to mobilize people 8
 9 to action. 9

10 Twitter is a particularly interesting case of social media in Kuwait that serves 10
 11 as both an outgoing and incoming political communication tool. As noted, mobile 11
 12 phones outnumber people by a ratio of 3:2 and Kuwaitis, like people in other 12
 13 wealthy countries, are increasingly dependent on their phones for a variety of 13
 14 purposes. This makes Twitter an especially useful means of instant communication 14
 15 that some MPs have been quick to capitalize on. Indeed, as also mentioned, despite 15
 16 its small population, last year Kuwait was second only to Turkey when it comes 16
 17 to total volume of tweets by a Middle Eastern country (Internet World Stats 2011). 17
 18 One MP described how Twitter worked with surprising effect for some of her 18
 19 parliamentary colleagues. "I'll tell you an example of how powerful [Twitter] is. 19
 20 A few days ago [one group] proposed a grilling for the Prime Minister for not 20
 21 sending troops to Bahrain [in response to recent protests]. At night was when the 21
 22 press release came out ... In the following few hours, at night, there was a huge 22
 23 wave against this [proposed grilling] on Twitter ... immediately, the next day, 23
 24 they changed their tune because they saw that was going to hurt them. It started in 24
 25 Twitter ... I mean, how would you monitor public opinion that quickly if it wasn't 25
 26 on Twitter?" Like many older sophisticates, the MPs she described were quickly 26
 27 realizing the benefits associated with new media, though some tentative users 27
 28 delegated their oversight to junior staffers. Even though some actors were still 28
 29 coming to terms with the power of new media, it was clear that female politicians 29
 30 of all ages had embraced these technologies with zeal. 30

31 31

32 32

33 **Gender Differences** 33

34 34

35 Female politicians relied heavily on digital media technologies to communicate 35
 36 their messages. Despite an almost 30-year gap between the oldest and youngest 36
 37 of Kuwait's female MPs, each successfully used new media technologies in their 37
 38 political campaigns and continued to do so once in office. Age, it seems, was 38
 39 less of a determining factor in their adoption of digital communications than with 39
 40 the men. All the females to serve in Kuwait's parliament had personal websites 40
 41 outlining their key messages, personal profiles, and showing reposted media 41
 42 coverage about them. The sites included feedback mechanisms, volunteer signups, 42
 43 and other interactive features. Each site also contained cross-media integration 43
 44 with Facebook accounts, YouTube videos, and email subscriptions. One of the 44

1 female MPs responded this way when asked about new media. “Oh yeah, oh yeah, 1
 2 I have a website, you can see my long journey [leading to politics] and some of 2
 3 my speeches on YouTube, and my Twitter [account]. [These media helped me] to 3
 4 expand the number of people who see me and support me. From young people 4
 5 ... to everyone who uses the Internet, which is most the people in Kuwait these 5
 6 days.” She also described these platforms as mechanisms for getting around what 6
 7 she characterized as a biased media environment, though the oldest female MP 7
 8 had a slightly different view on the media scene. For her, new media were simply 8
 9 part of a robust and relatively free mediascape. “Yes. The new media is important. 9
 10 We use the media more and more now to express our ideas and our point of view, 10
 11 especially having more TV channels, private TV channels, the Internet. We feel 11
 12 more free to criticize the political practices, whether for our fellow MPs or to 12
 13 criticize the government’s policies. So, having these open media channels, whether 13
 14 it’s TV channels, or also newspapers, or new media, I think politics is getting more 14
 15 active in Kuwait and more reachable to the ordinary men and women.” These 15
 16 women both saw digital media as useful tools for communicating their messages 16
 17 and reaching different segments of the population, even if they differed in the 17
 18 innovative credit they gave to new media technologies. 18

19 The campaign manager of a female MP explained their use of such technologies 19
 20 during the 2009 campaign. “So we had the website, we had YouTube, we had 20
 21 Facebook, we had Flickr, we had Twitter—although it had just started to pick up 21
 22 in Kuwait. We made really good use [of these media] and dedicated a lot of the 22
 23 campaign resources to new media and online ads.” He then described the critical 23
 24 importance of these media for sending targeted messages. “And it wasn’t just 24
 25 collecting members; we were actually utilizing [these technologies]: sending out 25
 26 messages, targeted messages ... where we would ask people for a certain action 26
 27 and the response was amazing. We had email lists that we kept piling up throughout 27
 28 the campaign. Even with SMS—although SMS I wouldn’t consider new media 28
 29 anymore—but the way we targeted people with it was new: geographically, 29
 30 demographically.” The benefits of this strategy were apparent in his candidate’s 30
 31 success, demonstrating that a host of new media technologies supplement and 31
 32 circumvent existing media channels. The general consistency with which all 32
 33 the female MPs used such media speaks to the power of digital technology to 33
 34 overcome some of the communicative obstacles faced by female politicians. 34

35 35

36 36

37 **Conclusion** 37

38 38

39 Like many parts of the world—and especially in the Middle East—political 39
 40 communication in Kuwait appears to be transitioning to a new era. This era is 40
 41 one in which the means of communication are continually evolving with some 41
 42 potent effects. I have focused the analysis primarily on means, since this is 42
 43 both the lynchpin of communicative strategies and an area where unique local 43
 44 adaptations are highly apparent. As well, communicative means provide insight 44

1 into Kuwait's information infrastructure and the process of political debate in 1
 2 the country. The traditional mechanisms outlined in this chapter exemplified a 2
 3 robust set of historical pathways for reaching the public and remained the most 3
 4 important tools for communicating political intentions. Digital media increasingly 4
 5 augmented these channels and created new venues for reaching the electorate. 5
 6 Kuwait's political actors exhibited specific patterns as to who employed which 6
 7 media and to what effect. Ideology may have determined the levels of access 7
 8 these groups had to traditional means, but it explained little about political actors' 8
 9 motivations in using some communication channels over others. Islamists and 9
 10 liberals were mainly divided along generational lines and female politicians of 10
 11 varied ages ardently embraced them as part of a larger strategy for circumventing 11
 12 traditionally gender-biased communicative obstacles. 12

13 In terms of infrastructure, the relative openness of Kuwait's political and 13
 14 information environment allows significant space for groups to openly debate one 14
 15 another and contest specific forms of power with little fear of direct repression from 15
 16 the state. This is due, in part, to the fragmented nature of the opposition groups, 16
 17 which ensures that political battles are often between themselves and rarely pose 17
 18 a direct threat to the monarchy itself. As noted, the government also possesses 18
 19 distinct advantages over the traditional means of communication in comparison to 19
 20 the various political groups described here, and it has more resources at its disposal 20
 21 for employing digital means—this is in addition to its control over the larger 21
 22 media infrastructure through licensing and legal authority. So despite the innovate 22
 23 communication strategies of the political actors outlined in this chapter, there will 23
 24 always be an asymmetrical relationship between them and the state in terms of 24
 25 access, resources, and power. This is not to say such groups are powerless or their 25
 26 innovative forms of communication are irrelevant; in fact if one measures political 26
 27 success in terms of legislative victories and social mobilization, these groups have 27
 28 been very successful at times. However, in Kuwait, such victories represent only 28
 29 one realm where the state's authority is explicitly affected. Structurally speaking, 29
 30 the state's other modes of power—such as control over the economy, the police, 30
 31 military, and intelligence services, etc.—are not publicly contested. Put another 31
 32 way, the information infrastructure in Kuwait has done little to directly erode the 32
 33 state's "hard power" and it is not likely to do so in the foreseeable future. 33

34 Perhaps as important as infrastructure, then, is the geopolitical and historical 34
 35 context. The regional uprisings have illustrated the fragility of some Arab 35
 36 autocrats in the face of an angry and (at least temporarily) unified public. Each 36
 37 of the countries which underwent a recent political transition, or that is currently 37
 38 in a state of instability, has a unique set of conditions comprising its political 38
 39 and information environment. Furthermore, countries like Kuwait, have witnessed 39
 40 social mobilization and significant political debates both online and offline for 40
 41 several years now. In either case, information infrastructure is not a mono-causal 41
 42 variable capable of explaining authoritarian erosion any more than it can explain 42
 43 its persistence. However, when domestic political conditions, regional context, 43
 44 and information-communication technologies combine with human agency and 44

1 a desire for change, then a potent recipe brews. This was obvious in the case 1
 2 of countries like Tunisia and Egypt where long-standing dictators were rapidly 2
 3 deposed, but has also been evident in countries like Kuwait where political 3
 4 change has been temperate in comparison. For example, when the Arab uprisings 4
 5 achieved a sufficiently high level of momentum and attracted the world's media 5
 6 attention, opposition MPs in Kuwait took their issues out of the parliament and 6
 7 on to the streets, organizing several street protests that eventually succeeded in 7
 8 the dismissal of Kuwait's Prime Minister. Kuwait's stateless citizens, called the 8
 9 Bidun, also capitalized on the moment to organize demonstrations and demand 9
 10 more political rights. In both cases, digital technologies played a critical role in 10
 11 terms of mobilizing protestors, declaring unified goals, documenting the protests 11
 12 and reactions to them, and then disseminating this information to the broader 12
 13 global community. As important as digital technologies were in each case, it was 13
 14 ultimately the regional context that made their actions successful. 14

15 Even when media-facilitated political change does happen on a significant 15
 16 scale, the Arab uprisings have demonstrated that such change is only one of the 16
 17 many steps necessary toward creating more accountable forms of governance and 17
 18 eroding authoritarianism. If and when such a difficult first step is accomplished, 18
 19 there are still no guarantees that the resulting direction will continue on a path 19
 20 toward democracy or even greater liberalization. In Kuwait, digital media are 20
 21 playing a critical role in the country's political debates, but for the foreseeable 21
 22 future it is still a supporting role alongside conventional and provincial forms 22
 23 of media. Despite the innovations of gendered and generational political actors, 23
 24 Kuwait, like much of the world, is still reliant on traditional mass media for 24
 25 reaching the broadest audiences and attempting to persuade political behavior. 25
 26 This is an especially point for the broader Arab Middle East where access to 26
 27 technology, literacy limits, economic disparities, ineffectual educational, political 27
 28 indoctrination, and a history of oppression are rampant. Therefore, media like 28
 29 TV continue to be paramount to regional politics. In assessing the political 29
 30 communication used by opposition groups within Kuwait, it can be concluded 30
 31 that the state's hard power is little eroded. Even with the introduction of new 31
 32 communication technologies being adapted to the local context, the likelihood 32
 33 that a more robust and free information infrastructure by itself will trigger further 33
 34 democratization is unlikely; a statement that I would argue is applicable well 34
 35 beyond the national and regional context described here. Such conditions can, 35
 36 however, open up new pathways that are necessary, if not sufficient, for political 36
 37 change. Based on countries like Kuwait, it can be surmised that communication 37
 38 technologies are not enough to guarantee political transformation in the region, 38
 39 but certainly political change in this part of the world will increasingly be reliant 39
 40 upon them. 40

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Chapter 9

Social Media and Soft Political Change in Morocco

Mohammed Ibahrine

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12 During the “third wave” of democratization around the world in 1990s, the Internet 12
13 did not figure prominently. This has changed in the context of rapid digitalization 13
14 since late 2010, especially in countries where authoritarian political structures 14
15 and traditional cultural patterns still predominate. In the Arab region, social 15
16 movements, dissidents and activists adopted social media, following the example 16
17 of the revolutions in Iran (small media) and Eastern Europe (Samizdat) to trigger 17
18 the long-awaited “fourth wave” of democratization. After his accession in 1999, 18
19 Morocco’s Mohammed VI initiated a “new concept of authority” that promised 19
20 a free press, the respect of human rights and individual freedom. The post- 20
21 Hassan II Morocco has been more democratic in form and substance. However, 21
22 many authoritarian features have re-emerged as their cultural and institutional 22
23 foundations turn out to be more resilient. 23

24 To understand contemporary Moroccan politics, analysts must focus on the 24
25 effects of the emerging digital communication technologies. The thesis of this 25
26 chapter is that digital media constitute a new site of power configuration in 26
27 Morocco. The crucial moment of power construction is meanwhile decisively 27
28 determined by the control of the pipelines of images and messages along with 28
29 extensive formal and non-formal networks of distribution. Communication power, 29
30 in the form of the ability to create and disseminate information, has been given to 30
31 relatively powerless segments of society through the use of digital technologies 31
32 (Castells 2009). 32

33 This chapter provides insight into Islamists’ digital communication strategies 33
34 by investigating the tactics of informing, interacting, mobilizing, recruiting and 34
35 networking with their audiences, members and constituencies. By Islamists, I 35
36 mean organizations that seek political power by using Islamic religious discourse 36
37 and reference. The chapter also examines how and why Islamists have adopted 37
38 these digital technologies to mediate, edit and frame their political discourses. In 38
39 countries where the authoritarian grip over the channels of political communication 39
40 is tight, Islamists have turned to digital platforms as an efficient tool for creating 40
41 and distributing political messages to targeted audiences, especially to younger 41
42 supporters, and for mobilizing followers and supporters for demonstrations. What 42
43 is striking about Moroccan Islamists is that they are well integrated in the political 43
44 field and system by publicly distancing themselves from political violence and by 44

1 participating in the parliamentary elections since 1998. Secondly they were among 1
 2 the first Islamists in the Arab region to adopt and adapt their communication 2
 3 strategies to the digital environments. 3

4 The chapter also examines the recent use of social media and digital platforms 4
 5 by dissidents, activists and social groups other than the Islamist. These groups 5
 6 are getting their inspiration from Islamists application of digital platforms. While 6
 7 Islamists are creatively capitalizing on the decentralizing effects of the Internet 7
 8 for the quick dispersion of political information into all directions regardless of 8
 9 the authoritarian and highly hierarchical control of the information, the Moroccan 9
 10 regime was facing serious challenge to understand to how to control the explosion 10
 11 of the digital free flow of information and keep its tight grip, control and monopoly 11
 12 of the media landscape. The chapter concludes that the ascension of Moroccan 12
 13 Islamist power in 2012 gave credit to the information and communication 13
 14 technologies in eroding the origins of Moroccan authoritarianism. 14

15 15
 16 16
 17 **Islamist Movements as “Resistance Identity” and 17**
 18 **“Project Identity” Movements 18**
 19 19

20 The concept of “identity of resistance” is particularly useful in providing a first 20
 21 framework for analysis of political collective action in the digital age and then 21
 22 in understanding the ongoing transformation in the networked public sphere and 22
 23 in the hierarchy of political power in Morocco. An appropriate starting point for 23
 24 interpreting the implications that the use of the Internet by Islamist movements 24
 25 have for politics in Morocco is Manuel Castells’s suggestion that “the rise of 25
 26 the network society calls into question the process of construction of identity” 26
 27 (Castells 1997: 11). Castells himself applies this theoretical assumption on 27
 28 Islamist movements. He notes: “The search for meaning takes place then in the 28
 29 reconstruction of defensive identities around communal principles” (Castells 29
 30 1997: 11). He goes on to point that: “In the network society, project identity, if 30
 31 it develops at all, grows from communal resistance.” The Castellian argument 31
 32 is that cultural battles are the power battles of the information age. He identifies 32
 33 power as a “battle around cultural codes, symbols, which relate political and 33
 34 social actors, institutions and cultural movements, through religious leaders and 34
 35 symbols” (Castells 1998: 348). Castells argued that Islamists are engaged in a 35
 36 serious battle for the reconstruction of cultural identity. To win the hearts and 36
 37 minds of their target audiences, Islamists realized the strategic importance of 37
 38 digital and direct communication channels. Similarly, cultural forces armed with 38
 39 digital political communication strategies can produce, legitimate and implement 39
 40 political contents. Islamist movements in Morocco “seek the transformation of 40
 41 the overall social structure” (Castells 2004: 8). 41

42 The use and role of the Internet in recent Moroccan political transformation 42
 43 is to be understood in the context of the ongoing conflict between the Moroccan 43
 44 regime and social movements, especially Islamists. Before the arrival of the 44

1 Internet, Islamist movements in Morocco did not use digital platforms and social 1
 2 media but small media first to spread their messages to their target audiences 2
 3 through extensive informal networks in mosques and souks and secondly to 3
 4 overcome systematic censorship. The Iranian Revolution can be regarded as a role 4
 5 model with regard to the impact of small media on political change. With the 5
 6 publication of “Small Media Big Revolution” in 1994 by Sreberny-Mohammadi 6
 7 and Mohammadi, small media have become a serious agent for political revolution. 7
 8 By small media, I mean cassette tapes, photocopies, tape recorders, and telephone 8
 9 usage (Sreberny-Mohammadi and Mohammadi 1994). The distribution of 9
 10 audiocassettes with religious sermons of Ayatollah Khomeini in the late 1970s 10
 11 contributed to the fragmentation of political as well as the cultural authority of 11
 12 the Shah’s regime. The Iranian Revolution of 1979 has illustrated the particular 12
 13 impact of audiotapes at spreading the messages of Ayatollah Khomeini and the 13
 14 importance played by small media in fostering political and religious discontent, 14
 15 thus triggering radical political change. 15

16 Eastern Europe is another region where small media in the form of *Samizdat* 16
 17 triggered great political and societal transformations the late 1990s. *Samizdat*, 17
 18 a Russian word, refers to privately and clandestinely printed and distributed in 18
 19 contrast to the state owned printing and distributing channels (Joo 2004: 572). 19
 20 Citizens of these countries were unable to publish because of the state rigid rules 20
 21 of control and censorship. By samizdatizing, they typed their work and then passed 21
 22 the copies to other people in the samizdat network. A successful samizdat should 22
 23 have a powerful appeal to snowball through many regions, networks and audiences 23
 24 and spread the voices of freedom (Feldbrugge 1975: 5). While it originated in 24
 25 literary circles, samizdat was designed to convey a clear political message that 25
 26 defied the Stalinist *status quo* (Joo 2004: 572). Vladimir Bukovsky, a leading 26
 27 member of the Russian dissident movement of the late 1980s caught the essential 27
 28 kernel of the context and concept when he said: “I myself create it, edit it, censor 28
 29 it, publish it, distribute it, and ... get imprisoned for it” (Bukovsky 2012). The 29
 30 inherent idea on which *Samizdat* relied is self-publishing. Passing along copies by 30
 31 hand depended on the intensive informal communication networks, which were of 31
 32 central significance for the functionality of this type of media activism. Dissidents 32
 33 and activists produced their documents and tracts and passed them from reader to 33
 34 reader to avoid the state tight censorship. 34

35 The French Political Islam expert, Gilles Kepel demonstrated the extent to which 35
 36 Islamist preachers, activists and groups exploit communication channels for their 36
 37 political goals and objectives. He showed the role of cassette recordings of the sheikh 37
 38 Abdal-Hamid Kishk’s sermons in circulating Islam, thus creating a mass following 38
 39 for Islamist movements (Kepel 1984). The Egyptian and famously charismatic 39
 40 Sheikh Kishk popularized the teachings and tenets of Islam through his cassettes, 40
 41 which still echo in the population not only in Cairo’s streets but also throughout 41
 42 the Arab and Islamic world. Islamists around the world realized the usefulness and 42
 43 effectiveness of cassettes as a political mass communication medium and started to 43
 44 follow suit. Moroccan Islamists operate with similar media strategies. 44

1 In Morocco, Islamist movements were also pioneers in the use of small media. 1
 2 Situated outside the strict regime's control, small media provided during the last 2
 3 third of the twentieth century, the much-needed means of political communication 3
 4 for political opponents, activists and preachers, who have been blocked off by rigid 4
 5 and restrictive media policies since the independence in 1956. Given the high rate of 5
 6 illiteracy, it were especially audiotapes, that easily reached the illiterate population 6
 7 and functioned as a resource of political, religious and cultural resistance. By dint 7
 8 of these alternative small media tools, Moroccan Islamist movements created for 8
 9 themselves a place in the "communication sphere" to influence the Moroccan 9
 10 public opinion in favor of Islamist perspectives. As stated above, since the late 10
 11 1970s and early 1980s Islamist movements actively engaged in communicating 11
 12 with Moroccans to introduce their messages in to social and political circulation. 12
 13 Since they had been strictly barred from accessing the mainstream mass media, 13
 14 they resorted to small media, including books, private published magazines 14
 15 and audio and videotapes to disseminate their religious sermons and political 15
 16 information. 16

17

18

19 **Digital Platforms and Islamization of Public Sphere** 19

20

21 Over the last 50 years, Moroccan contemporary politics has been shaped by two 21
 22 conflicting ideologies, namely secularism and Islam The cultural and political 22
 23 fragmentation in Morocco accounts for the pressing need of an articulation of 23
 24 identity in terms of "identity of resistance." Islamist movements' undertakings 24
 25 with respect to identities involve antagonism. Their identity-building preserving 25
 26 antagonism aims at enhancing Islamic identity, which they perceive not just as 26
 27 different from that promulgated by the regime, but threatened by it. Social and 27
 28 economic as well as religious themes are the site of political antagonism. The 28
 29 Internet's arrival was heralded as an important force in the Moroccan political life. 29
 30 The potential power of the Internet did not go unnoticed by Islamist movements. 30
 31 Given the fact that Islamist movements in Morocco had no direct access to the 31
 32 public sphere by means of mass media, the importance of the Internet has grown 32
 33 rapidly. Armed with the belief in the strategic importance and high utility of the 33
 34 Internet, both actual and potential, Al-Adl Wal-Ihsan, the leading Islamist political 34
 35 organization in Morocco, set up a variety of websites beginning in the year 2000. 35

36 The Internet gained momentum for Islamist movements in Morocco on 36
 37 28 January 2000, when Al-Adl Wal-Ihsan, launched a website to release a 37
 38 memorandum, a voluminous and a critical letter, entitled "To Whom It Concerns" 38
 39 translated in many European languages. After the regime banned the private 39
 40 newspapers, which published the full text of the memorandum, Al-Adl Wal-Ihsan 40
 41 went online and published the memorandum. It also launched other websites 41
 42 that contained a range of information concerning its religious writings, cultural 42
 43 activities and political discourses. According to Alexa.com, in 2012, Al-Adl Wal- 43
 44 44

1 Ihsan website is ranked 236th in Morocco, making it the most browsed political 1
2 website in Morocco (Ben Moussa 2011: 76). 2

3 Among the most important cases of political use of the Internet in Morocco 3
4 was that of Nadia Yassine, the daughter of the leader of the most famous political 4
5 opponent of the Moroccan regime. She launched a website in Arabic, English 5
6 and French containing detailed information about her life, ideas, and activities 6
7 (including audio clips of her public lectures—for example one given at the 7
8 University of California at Berkeley). Al-Adala Wat-Tanmiya party also set up an 8
9 array of websites with different objectives and target audiences: one website for 9
10 the party, another for the election campaign, and also for the newspaper At-Tajdid, 10
11 the central organ of the Party of Justice and Development (PJD). 11

12 The political, social and religious discourse reflected in dozens of Islamist 12
13 movements' websites challenged traditional identifications of Moroccan identity. 13
14 The process of identification took place when the websites exposed unjust 14
15 situations and renew group commitments. In 2002, Islamists websites covered the 15
16 second Aqsa Intifada in a way to incite organized collective political action by 16
17 invoking an injustice frame that highlighted moral indignation and traces problems 17
18 to specific actors. At the same time, Al-Adala Wat-Tanmiya and Al-Adl Wal-Ihsan 18
19 have been proven able to transmit large amounts of political and religious content 19
20 via their digital platforms. The volume and speed at which they transmitted 20
21 political information about the election of 2002, the second Aqsa Intifada, and Al- 21
22 Mudawana means that they have continually improved their strategies and tactics 22
23 in informing, communicating and campaigning. 23

24 Political, social, religious and economic issues were deconstructed, 24
25 reconstructed and discussed through the digital presence of Islamists (Ben Moussa 25
26 2011). The websites became new platforms where conflictual polarizations 26
27 of the pre-existing identity are played out anew. Al-Adl Wal-Ihsan succeeded 27
28 to integrate the websites with an overall communication plan (especially the 28
29 use of email and email lists). The use of Internet added to the other forms of 29
30 political communication. Since the Internet became popular, especially for young 30
31 Moroccans to communicate, Islamists benefited greatly from this trend in matters 31
32 of the political communication. On March 12, 2000, Islamists mobilized an 32
33 estimated 500,000 participants to demonstrate and during the second Aqsa Intifada 33
34 demonstration on April 7th, 2002, they mobilized about one million. On March 34
35 12, 2000 an estimated 40,000 supporters of the social reforms demonstrated in 35
36 Rabat, the administration capital of Morocco. Islamist movements managed to 36
37 mobilize 500,000 participants in Casablanca. This massive counter-demonstration 37
38 by Islamist had put the regime and the then socialist-led government in a defensive 38
39 position. 39

40 Many scholars argued that the new technologies of communication would 40
41 allow religious and political identities to flourish (Eickelman and Anderson 1999). 41
42 Eickelman and Anderson pointed out that “a proliferation of media and means of 42
43 communication multiplied the possibilities for creating communities and networks 43
44 among them, dissolving prior barriers of space and distance and opening new 44

1 grounds for interaction and mutual recognition” (1999: 3). The potentialities of 1
 2 the political use of the Internet related not only to the number of people it could 2
 3 reach but to its impact on select and specific audiences. 3

4 In the case of Al-Adl Wal-Ihsan, the access to print media was at best 4
 5 extremely limited, censored, and controlled and at worst non-existent. In 1973 5
 6 Yassine wrote an open letter Al-Islam Au At-Tufan: Risala Maftuha Ila Malik Al- 6
 7 Maghrib (Islam or the Deluge) and sent it to the king. Following the samizdat 7
 8 tactics, Yassine himself created it, edited it, censored it, published it, distributed 8
 9 it, and was imprisoned for it. Yassine’s *nasiha* (morally religious advice) angered 9
 10 the king, who reacted by suppressing the text. It was widely known that to be 10
 11 in possession of the letter was punishable in Morocco so that the circulation of 11
 12 such material could be controlled. The regime successfully managed to stifle the 12
 13 circulation of the letter and thus minimized its effects on Moroccans. While the 13
 14 *Nasiha* originated in religious circles, *Nasiha* like the samizdat was designed to 14
 15 convey a clear political message that defied the authoritarianism of the Moroccan 15
 16 political regime. 16

17 In 2000, Yassine sent a new *nasiha* to the new king. The regime again quickly 17
 18 attempted to censor the circulation of this letter. Yassine published his memorandum 18
 19 in many independent newspapers, a new communication channel that have offered 19
 20 the Islamists a new chance to voice their concerns. Generally, Moroccan media 20
 21 have a negative orientation towards Islamist movements. The official media as 21
 22 well as the socialist and the liberal party press have never granted the Islamists a 22
 23 space to articulate their political and religious accounts. Further, they negatively 23
 24 portray the Islamists and present them pejoratively as “barbus” or “mouvance.” 24
 25 The Internet leveled the field and offered the Islamists a direct channel to present 25
 26 their discourse directly to Moroccans without being reedited, misrepresented and 26
 27 gated. Islamists targeted specifically highly educated Moroccans such as students 27
 28 and professionals. This specific group of people was among the highest users of 28
 29 the Internet and is politically engaged in cyberspace. Digital platforms triggered 29
 30 a renaissance of the watchdog function and paved the way again for it to act as 30
 31 the fourth estate in controlling the misconduct of the political regime. Islamist 31
 32 movements in Morocco purposively spread unmediated literature for political 32
 33 purposes. One of the strengths of their websites had not been the content alone but 33
 34 the richness in terms of variations and organization of information. For Graham 34
 35 Meikle, the success of digital activists demands soft skills not in the state-of-the- 35
 36 art design or animation, but in information management and provision (Meikle 36
 37 2002: 78). The provision of information is a crucial element of the development 37
 38 of activist politics. Islamist movements in virtual spaces had increasingly become 38
 39 more efficient in publishing and distributing religious and political information 39
 40 and discourse. 40

41 A public space is in the process of being formed around the intersection of 41
 42 political, social and religious issues. With these topics, Islamists aim at appealing 42
 43 primarily to middle-class professionals such as educators, engineers, doctors 43
 44 and administrators. These sets of issues attract youthful educated audiences 44

1 and thus fit the information-seeking behavior of young Moroccans. Islamist 1
 2 movements framed their verbal and visual messages on the Internet to get and 2
 3 hold the attention of their target audiences and thus have a desired communication 3
 4 impact. Islamists' websites have been used successfully in promoting a coherent, 4
 5 collective assessment of what these events mean within the overall process of 5
 6 political change. A traditional concept of authority has come under attack, and has 6
 7 been shaken in many forms. Consequently, political power has become a contested 7
 8 domain, rather than an accepted reality. The growth of religiously based political 8
 9 identities is paralleled with a decrease of nationally based political identities. The 9
 10 internalization of these religious messages via new electronic media has increased 10
 11 the salience of Islamic and pan-Arab political identities at the expense of national 11
 12 identities (Nisbet and Myers 2010). 12

13 The Internet and digital platforms greatly contributed to the creation of 13
 14 an Islamized form of public space beyond the official broadcast media and 14
 15 mainstream print media. The dynamic shift of the content from offline to online 15
 16 has caused a change in the overall structure of Moroccan public sphere in favor 16
 17 of Islamic discourses. The changes in public sphere towards more opening and 17
 18 participation are contingent upon change in the communication strategies of 18
 19 Islamist movements. The increasingly assertive autonomy of Islamists by dint of 19
 20 the new digital media platforms brought into the open a new understanding of how 20
 21 these movements regularly circulated their religious tracts and material. One of 21
 22 the most significant consequences of the use of the Internet by Islamists has been 22
 23 the creation of mediated culturally and religiously based networks of identities and 23
 24 collective belonging. 24

25 The recent parliamentary elections of 2012 have led to the creation of the first 25
 26 ever elected Islamist-led government in modern Morocco's history. The PJD, a 26
 27 moderate Islamist party won 107 out of 395 seats in the parliament, 27.1 percent 27
 28 of the seats, a record victory for the PJD. This election was free and fair and the 28
 29 voter turnout was up from 37 percent in the last elections to 45 percent. The Justice 29
 30 and Development Party (PJD) led by Prime Minister Abdelilah Benkirane formed 30
 31 a coalition government with the Istiqlal Party (IP), National Popular Movement 31
 32 (MNP) and the Progress and Socialism Party (PPS). Many observers interpreted 32
 33 the win as a result of the Arab Spring's calls for political change, and the PJD's not 33
 34 yet tarnished reputation by the corruption scandals and political maladroitness so 34
 35 commonly associated with the other established parties. 35

36 36
 37 37

38 **Youth Engagement and Digital Activism** 38

39 39

40 In Morocco, Internet access was initially limited to social, educated and urban 40
 41 elites, but since 2010, the Internet has become the communication platform 41
 42 preferred by Moroccan youth. Forums, blogs, wikis, and YouTube videos are in 42
 43 vogue. Young people started to generate their own media contents, practicing 43
 44 new kinds of journalism and becoming "citizen amateurish journalists." Blogs, 44

1 Forums, and social websites are contributing to the development of the media in 1
 2 Morocco; citizens increasingly use it as a samizdat-platform for their news and 2
 3 views. Also, dissidents and activists are capitalizing on these new digital media 3
 4 because they have learned from the Islamists' best practices in the application of 4
 5 digital communication strategies and tactics. They saw how creative, aggressive 5
 6 and effective Islamists used digital media over the last decade. Civil society groups 6
 7 and new social movements, including feminists are using social media to inform, 7
 8 mobilize, campaign, recruit, and build coalitions. 8

9 Considering that youth unemployment in Morocco has grown over the last 9
 10 few years, because of the exogenous and endogenous conditions, recent estimates 10
 11 suggest that 41 percent among Moroccans aged 15–24 are unemployed. In 11
 12 response to the protests of 2011, the new Constitution stated the creation of the 12
 13 Youth Council. The Ministry of Youth and Sports has been working in designing 13
 14 and developing proposals for an effective implementation of this council. The goal 14
 15 of this Youth Council is to engage young Moroccans in participating in the process 15
 16 of decision-making. The top issue on the agenda of the Youth Council is youth 16
 17 unemployment. The access to higher education has contributed to the emergence 17
 18 of better-educated youth who is more responsible and more active politically. 18
 19 With the help of mass media and social media, these young Moroccans started to 19
 20 organize themselves for collective civic and political action. 20

21 The recent use of social media by Moroccan activists and dissidents triggered 21
 22 a revival of the watchdog function of the media and paved the way for it to act 22
 23 as a *fourth estate* or even *fifth estate* (Dutton 2009) in monitoring political abuses 23
 24 by the regime. In summer 2008, an amateur cameraman filmed traffic police 24
 25 taking bribes from drivers. The so-called Targuist Sniper video was uploaded on 25
 26 the video-sharing website YouTube, where it was widely viewed. This led to a 26
 27 police investigation and the subsequent arrest of the police officers involved. This 27
 28 episode raised cyber-activism against routine corruption to a new level, setting 28
 29 an example that was followed in other cities. In the historical context of the Arab 29
 30 Revolutions, Morocco has been witnessing significant political transformations. 30
 31 Triggered and inspired by the uprisings in the two North African countries, Tunisia 31
 32 and Egypt, a protest movement known as the February 20 Movement held rallies 32
 33 and marches throughout the country during 2011 to demand democratic reforms, 33
 34 a parliamentary monarchy, social justice, the end of absolutism, and the abolition 34
 35 of corruption. The triggering demonstration occurred on February 20, 2011. The 35
 36 February 20 dissidents and activists adopted the Internet to organize and mobile 36
 37 protesters. According to Bashir Hazzam, a Moroccan blogger, blogging “enables 37
 38 people to publish their ideas easily, without control and for free.” 38

39 The ideal type of a modern protester in Morocco is Mouad Belghouat, who 39
 40 is a rapper and hip-hop artist, anti-monarchist and key figure in the February 20 40
 41 Movement. Belghouat is known as “Lhaqed” (The Spiteful) and he was famous 41
 42 for his parodies of royal speeches and the authorities. He also popularized the 42
 43 slogan: “Live Long the People.” This slogan was set to compete with the national 43
 44 slogan, “Live Long the King.” This is the first time in Moroccan contemporary 44

1 political history that people shout, “Live Long the People.” One of his titles 1
2 modified the Moroccan motto in the end of the national anthem “Allah, Al Watan, 2
3 the king” to “Allah, Al Watan, liberty.” Belghouat was very active in the Moroccan 3
4 blogosphere, using his YouTube channel to upload YouTube video-clips like the 4
5 famous “Kilab Ed-Dowla” (Dogs of the State). Equally revolutionary are his 5
6 popular songs, which deplore injustice and inequality. They harshly criticized 6
7 the king and the ministers. Some big families that are related traditionally to 7
8 the palace are also targets of his satirical parodies. In September 2011, he was 8
9 arrested while distributing leaflets and protesting and sentenced to one year in 9
10 prison. After public protests over his incarceration, his sentence was reduced to 10
11 four months. Supporters accomplished this by creating a Facebook group with 11
12 thousands of members who demanded the liberation of The Spiteful. They called 12
13 for demonstrations and most protesters wore t-shirts that read “Free the Spiteful,” 13
14 and “We are all Spiteful.” His arrest attracted national and international media 14
15 coverage. The *New York Times* described the whole situation a “banal enough 15
16 affair.” 16

17 Dissidents and human rights activists doubted the genuineness of the charges 17
18 advanced by the regime. In the same vein, yet more emotional, his mother 18
19 voiced in a YouTube video her anger and ascribed his arrest to his political 19
20 engagement and digital activism. In the context of the Arab Spring, the February 20
21 20 Movement accumulated strong formal and non-formal networks. During its 21
22 consecutive demonstrations in the streets and squares throughout the country, 22
23 the February 20 Movement had posters with slogans that targeted the rampant 23
24 corruption in Moroccan public institutions, and particularly public broadcasting. 24
25 Digital platforms offer an increasingly important addition, since every person can 25
26 turn every digital device into a broadcasting or narrowcasting space. Moroccan 26
27 social media users more and more carried out the role of grassroots reporter, fact- 27
28 checker and critics of the traditional media coverage of events. Thus Internet users 28
29 have grown from observers to commentators, and sometimes even shapers and 29
30 producers of events. 30

31 During the recent Arab Spring protests, the Moroccan movement was 31
32 fractious yet it made one great contribution to political reform in Morocco. The 32
33 triggering demonstration occurred on February 20, 2011. A few weeks later, the 33
34 monarch Mohamed VI responded by announcing and introducing constitutional 34
35 reforms. In his “historic” speech of on March 9, 2011, the Monarch Mohammed 35
36 VI demonstrated a political will to transform his monarchy from an “executive 36
37 monarchy” to a constitutional monarchy. For the first time in Moroccan, a new 37
38 constitution was drafted by Moroccans and was approved by a referendum by 38
39 more than 95 percent of voters. In the context of the Arab Spring, which was 39
40 characterized by hectic political instability, digital activism has gained momentum 40
41 and shaped political outcomes. The demonstrations organized and coordinated by 41
42 the February 20 Movement with the help of social media made the Moroccan regime 42
43 respond to the events in a top-down approach. This time, the regime understood 43
44 that the Internet is a powerful political communication medium that empowers 44

1 civil society groups and thus undermines the entrenched authoritarianism of the 1
 2 Moroccan regime. 2

3 3
 4 4

5 **Regime Reaction to Digital Activism** 5

6 6

7 Morocco has a long tradition of offline surveillance and suppression of political 7
 8 opponents. The regime has always attempted, with the help of several strategies, 8
 9 to re-center the distribution of information and narrow channels of the national 9
 10 information system. It did not, however, fully realize the power of an Internet- 10
 11 enabled civil society. As demonstrated in the case of *Al-Adl Wal-Ihsan*, the regime 11
 12 apparatus lacked imagination in how to respond to the new situation, where digital 12
 13 platforms were used *in lieu* of print media. While the regime took active and quick 13
 14 measures to censor the print media, it remains passive and idle when it came to the 14
 15 publication of the same document on the Internet. 15

16 The regime passivity in matters of digital censorship continued, the Moroccan 16
 17 regime has not attempted to disconnect Internet choke points or mobile phone 17
 18 systems. Remarkably enough, the regime passivity went along with the issuing a 18
 19 few restrictive legal censorship mechanism such as the 2002 Press Code, the 2004 19
 20 Audiovisual Communication Law, and the 2003 Anti-Terrorism Bill as a legal 20
 21 framework for regulating media contents and for news delivery on the Internet 21
 22 and mobile platforms. For instance, the Anti-Terrorism Bill addresses the legal 22
 23 liability for Internet content. The legal liability rests with the author, the site, and 23
 24 the Internet Service Provider (ISP). The three ISPs are Maroc Telecom, Medi 24
 25 Telecom, and Wana. Moroccan ISPs have the obligation (via the Anti-Terrorism 25
 26 Act) to screen and filter the contents on the Internet and must block infringing 26
 27 contents when aware of them. They bear joint liability with the Internet site that 27
 28 must also filter and screen contents posted on their sites. The site owners are also 28
 29 legally liable for Internet content. For example, if one user posts a comment on a 29
 30 newspaper site, and if the comment is deemed a threat to national security, both the 30
 31 author and the site are legally liable. 31

32 There are several explanations for the regime's reluctance when it comes to 32
 33 Internet censorship. One is that the Moroccan regime is, possibly, cognizant of 33
 34 the lasting economic consequences and losses that are closely intertwined with 34
 35 a temporarily shut down of telecommunications networks. The economic logic 35
 36 might be so powerful and pervasive as to make the regime enact to opt for 36
 37 interrupting the Internet. Another reason might be the underestimation of the 37
 38 political communication dimension of the Internet. The Moroccan regime failed 38
 39 to realize the interactive and networking potentials that the Internet offers to its 39
 40 users. The third explanation is that the regime did not perceive the Internet as a 40
 41 mass communication medium and wrongly thought that it was used exclusively 41
 42 by the Moroccan elites. 42

43 Digital censorship has gradually gained the regime's attention under the 43
 44 combined impact of the Arab revolutions and the growing mobilization of the 44

1 Moroccan civil society. Over the last two years, Internet censorship has become 1
2 a more frequent practice and a more common feature. As Howard, Agarwal, 2
3 and Hussain conclusively point out, the literature on digital censorship makes 3
4 a distinction between four typically different political systems and regimes 4
5 including democracies, emerging democracies, authoritarian regimes and fragile 5
6 states (2011). Despite the globalization of digital censorship along the line with its 6
7 rising rates in all four types, authoritarian regimes are more aggressive than other 7
8 types of regimes (Howard, Agarwal, and Hussain 2011: 6). One can also observe 8
9 that the less democratized the country, the greater the impact of digital censorship 9
10 on civil society actors. 10

11 However, armed with digital devices, Moroccan Islamists are transforming the 11
12 cultural foundations of politics and authority by contesting the hegemonic (and 12
13 official) interpretations of religious discourses as well as the relation between 13
14 the triad of religion, authority and politics. Changes in digital communication 14
15 technologies have a significant influence in a number of political communication 15
16 areas. The new era of digital political communication is marked by an increasing 16
17 flow of political information, which has made political actors rethink their 17
18 communication strategies and tactics to react to every issue in real time, to 18
19 predict the direction, intensity, and form of that influence. The Internet has 19
20 transformed the form and function of the political communication strategies of 20
21 Islamists, by enabling them to deliver their political and religious message without 21
22 being censored by the regime's administrative mechanisms. In the digital age, 22
23 Islamists are using digital platforms to continue their management of information, 23
24 communication, networking and relationship with their constituents. Islamists 24
25 have managed to turn their emailing lists and online forums among other digital 25
26 platforms into the most vibrant digital communities. 26

27 Since 1927, *Time Magazine* used to select the Man of the Year. This tradition 27
28 has made its impact in 2006 and 2011 respectively. In 2006, *Time* selected as the 28
29 Man of the Year "You" and in 2011, the "Protester." Both "You" and "Protester" 29
30 reflected the zeitgeist of the time, because it shifted the focus from the powerful 30
31 elite to virtually mobilized mobs and networked masses. The constitution of 2011 31
32 had created a democratic political system that will make Morocco different. When 32
33 the King appointed the Islamist Ben Kirane as Prime Minister, he decidedly acted 33
34 in the spirit of the new constitution and broke with the authoritarian tradition. 34
35 He made it clear that Morocco's incremental change is uniquely exceptional in 35
36 the Arab region. Abdelilah Benkirane regarded what happened in Morocco as a 36
37 "peaceful revolution." Regional experts, like Kenneth Pollack, Director of the 37
38 Saban Center for Middle East Policy, also referred to the recent changes in the 38
39 Moroccan political field as a 'quiet revolution.' However, contrary to optimistic 39
40 predictions, the "Arab Awakening" has turned into an "Islamic Awakening." The 40
41 advance of the well-organized Islamists in electoral processes in Tunisia, Morocco 41
42 and Egypt has marked a "religious turn" in politics—and in interesting ways, it is 42
43 a digitally-enabled one. 43

44

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Chapter 10

Leninist Lapdogs to Bothersome Bloggers in Vietnam

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11

Catherine McKinley and Anya Schiffrin

12 This chapter investigates how a vibrant blogging community developed in 12
13 Vietnam over the last decade, and explains who the bloggers are and what they 13
14 write about. It also discusses why Vietnam now wishes to control the flow of 14
15 information through the blogosphere, what information it wants to control, and 15
16 how it tries to do so. Drawing on a close analysis of Vietnamese-language blogs 16
17 as well as interviews, the chapter includes a number of case studies to illustrate 17
18 the points it makes. 18

19 In Vietnam, as in many other closed societies, the Internet has brought about 19
20 rapid transformation. Although the Vietnamese government has always been 20
21 sensitive to public opinion, the Internet has forced it to become more immediately 21
22 responsive to public sentiment and accountable in new ways. The rapid rise of new 22
23 technology has showed the ruling Communist Party that it can no longer control 23
24 how information is disseminated and even less how it is perceived publicly. This 24
25 is a dramatic change for a system in which the media was tightly controlled and 25
26 expected to follow the party line. 26

27 Since Vietnam began a period of economic reforms (known as “doi moi”) in 27
28 1986, the ruling Communist Party has emphasized rapid economic growth. As part 28
29 of the reform process that opened up Vietnam to the world economy, the government 29
30 allowed private enterprise to grow, signed international trade agreements, opened 30
31 a stock exchange, let some unprofitable state-owned enterprises fail and closed 31
32 down or merged some of its unprofitable banks. The result was unprecedented 32
33 GDP growth, which from 1992 to 2008 was generally between 8–10 percent a 33
34 year, according to the World Bank. The rate of poverty fell to 14.5 percent of the 34
35 population in 2008 from 58 percent of the population in 1993 while per capita 35
36 income soared to \$1,130 by the end of 2010 compared to below \$100 in 1986. Not 36
37 only was this growth essential for what was a poor country ravaged by decades 37
38 of war, but delivering economic growth became the justification for the Party’s 38
39 existence (Elliot 2012, Thayer 2009). Vietnam’s leadership aimed at forging a 39
40 Singapore-type bargain in which increasing standards of living made up for the lack 40
41 of free expression and human rights. The system worked relatively well: Vietnam 41
42 kept growing, standards of living kept rising and while the government has been 42
43 repeatedly criticized for human rights violations, the country was relatively stable 43
44 and secure. 44

1 But a recent slowdown in economic growth, coupled with the development 1
 2 of an urban middle class that is willing to question its government's motives and 2
 3 actions, has begun to change all that. Growth in 2011 was 5.89 percent and in 2012 3
 4 it is expected to fall to around or below 5 percent (although it may pick up again 4
 5 after that). In addition, high inflation, weakening exports, concerns over currency 5
 6 stability, and the exposure of massive debts at large state-owned companies that 6
 7 are damaging the nation's sovereign credibility are raising concerns that the 7
 8 government is mismanaging the economy and allowing corruption and nepotism 8
 9 to thrive while ordinary people struggle. The unspoken deal, firm for so long, is 9
 10 showing signs of strain and "the party probably recognizes that it is now more 10
 11 vulnerable than at any point in the last decade," according to the Associated Press. 11

12 It is within this context that the Internet is becoming an ever-more powerful 12
 13 tool used by many from small businesses to anti-government bloggers and social 13
 14 networkers. Bloggers weigh in on policy matters and criticize corruption, land 14
 15 seizures, and environmental problems. They force the government to respond to 15
 16 localized complaints while still focusing on overall economic growth, and the 16
 17 momentum generated by the Internet means the Party has to respond quickly, 17
 18 something it is not accustomed to doing. The amount of information and opinion 18
 19 available online is new to this closed and secretive society and problems can no 19
 20 longer be sealed off and dealt with quietly behind closed doors as in the past. 20
 21 Hanoi's leaders are between a rock and a hard place. They want to stifle online 21
 22 dissent and deal with controversy privately but they know they must support the 22
 23 growth of a communication tool so vital to the economy. 23

24
 25

26 **Historical Background** 26

27

28 In order to understand what a shift this move to public discussion has been for 28
 29 the Party, it is helpful to look back at how information was managed before the 29
 30 Internet. As in many colonized countries, the media played an important role in the 30
 31 struggle for independence (Marr 1981) and newspapers were used both to provide 31
 32 information about the cause and to mobilize support for the anti-colonialist 32
 33 movement (Peycam 2012). 33

34 The Communist Party of Vietnam which came to power in the north of the 34
 35 country in 1954 and in the South in 1975 was influenced by the Leninist model 35
 36 of media control. Throughout the Vietnam War, the Party had a network of 36
 37 reporters and photographers who produced pictures and articles about the war 37
 38 for supporters overseas (Schiffrin 2002) and for domestic consumption. Once the 38
 39 Communist Party of Vietnam took control of the country it changed the structure 39
 40 of the media as well. There were no private media houses allowed and television, 40
 41 radio and newspapers were run by the government/Communist Party of Vietnam 41
 42 (Heng 1998). The Leninist approach was a top down approach in which party 42
 43 officials oversaw the coverage and made decisions as to what could be covered 43
 44 (Brooks 2000, McNair 1991). There were several enforcement mechanisms: 44

1) weekly news meetings in which news workers were told what they could cover; 2) sporadic releases of news by government agencies; and 3) the appointment of Party members to oversee the organs. All of these control mechanisms remain in place and continue to guide news coverage by the official media (Crispin 2012). As well as national newspapers published by the Communist Party (*Nhan Dan*) and the military (*Quan Doi Nhan Dan*), different government agencies and party organizations had their own publications. The quality, professionalism, frequency of publication and circulation varied widely but included magazines and newspapers published by the Police Department, and then smaller agencies such as the customs office, the State Bank of Vietnam and so-called mass organizations such as youth organizations (which publish popular dailies like *Tuoi Tre* and *Thanh Nien*) Women's Union, Farmer's Union and Trade Unions (publisher of the daily *Lao Dong*). The publications were funded by direct government subsidies, subsidies provided by the management organizations and by mandatory subscriptions taken out by universities, state-owned enterprises and other government offices (Heng 1998). As in China, the Vietnamese government began scaling back financial support for media houses in the eighties and the media began publishing more sensationalistic and entertaining news in the hope of raising circulation (Heng 1998). The media also began to expose corruption (Heng 1998, Heng 2003). From the turn of the current century, when Vietnam gave the official nod to private enterprises, corporate advertising has also been allowed and has played an increasingly important role on the financing of newspapers as state subsidies fall. The Press Law of 1989 further opened up the media space. By the 1990s, Vietnamese readers could find women's magazines and home décor titles on newsstands in major cities. Thanks to widespread education, literacy rates are high in Vietnam with around 93 percent of the population classified as literate. Their increasing financial independence from the state, coupled with the growth of a more demanding and complex urban readership, slowly both allowed and pushed some newspapers to break from the official mold and begin to cover stories that had not been provided by the official Vietnam News Agency and may not have received prior approval from censors, in particular stories about low-level official corruption.¹ As in many other countries where television and radio often remain tightly under state control because of the expensive cost of setting up parallel structures (Djankov 2003), radio and television never made this change. By the 2000s, the government responded to this change and began to officially endorse press coverage of corruption and other 'social evils' as part of an Anti-Corruption campaign. It named the media as an anti-corruption tool of the state and tried to guide coverage and be seen to be addressing corruption within its apparatus. It

¹ Vietnam does not technically operate a system of pre-publication press censorship. However, the weekly meetings between government officials and editors in chief are a route through which instructions are shared regarding the types of stories that are deemed to be acceptable or unacceptable. Editors are expected to ensure that coverage remains within these bounds.

1 allowed foreign development partners to train local journalists in investigative 1
 2 reporting skills and slowly but surely gave news editors greater freedom to nudge 2
 3 against the glass ceiling that limits coverage of controversial issues, creating slow 3
 4 but constant pressure on censors (Mckinley 2008). 4

5 In 2008, this snail-pace reform of the media came to an abrupt end as a small 5
 6 number of papers began to point fingers at senior government officials, accusing 6
 7 them of corruption and nepotism and drawing the anger of powerful vested interests. 7
 8 Two journalists were arrested and one jailed on charges of ‘abusing democratic 8
 9 freedoms’ and ‘propagating false information’ following their reportage of a 9
 10 case known as the Project Management Unit 18 (PMU18). Myriad others were 10
 11 questioned by police, who demanded to know their sources and made it clear that 11
 12 the editorial freedoms enjoyed until then were no longer on offer. The crackdown 12
 13 in the wake of PMU 18 coverage clarified for journalists that their new freedoms 13
 14 had been at the discretion of the Communist Party and could be withdrawn at 14
 15 any time. A door had been opened, showing what might be possible and allowing 15
 16 reporting staff and news editors to experience a degree of “free press,” and then 16
 17 closed again. At the time of writing, the post-PMU 18 media controls remain in 17
 18 place and many senior writers have either left the industry or complain that about 18
 19 the onerous restrictions. The brief opening had shown audiences that a new kind 19
 20 of news is possible, and piqued the interest of educated readers who questioned 20
 21 the news published by the Party organs. Journalists frustrated with the limits 21
 22 placed upon their professional activities responded to growing audience demand 22
 23 by moving online. 23

24

25

26 **The Birth and Reach of the Blogosphere** 26

27

28 Vietnam joined the Internet in 1997, at first allowing only state-owned businesses 28
 29 and government ministries to use it but in 1999 opening the web up to the public. In 29
 30 2002, the government allowed the creation of up to 40 Internet Service Providers 30
 31 (ISPs), up from only four previously. The growing competition reduced prices and 31
 32 made the Internet more accessible with use of the Internet growing by 30 percent/ 32
 33 year from 1997 to 2007, according to Thayer (Thayer 2007). Internet penetration 33
 34 by 2012 was estimated at around 34 percent of the population, according to figures 34
 35 by the Vietnam Internet Network Information Center. 35

36 Early converts used email and online chats to communicate with family and 36
 37 friends overseas because “the post was slow and the telephone was expensive,” said 37
 38 a blogger in Ha Noi. Once online, people began to discover other online services, 38
 39 such as games, overseas news sites and blogs, but there was no Vietnamese- 39
 40 language blogging platform and those who wrote their own blogs were dispersed 40
 41 among different overseas platforms (Blogspot, Wordpress, etc.). In 2004 Yahoo! 41
 42 responded to demand for Vietnamese services by launching a Vietnamese-language 42
 43 version of its 360° blogging platform. The platform attracted millions of users and 43
 44 facilitated creating an online community not seen before in Vietnam. 44

1 Since then Vietnam's blogosphere has grown to a thriving online community 1
2 of several million people, with most of the growth taking place in less than a 2
3 decade. While the majority of bloggers confine themselves to discussion of non- 3
4 controversial issues like friendship, fashion, gossip and shopping, a small but 4
5 significant number blog about news and current affairs, often focusing particularly 5
6 on issues like economic governance, policy, politics, and Sino-Vietnamese 6
7 relations that the official media is unable to report effectively because of editorial 7
8 controls imposed by the government. 8

9 The audience for these political blogs can be broken into four groups, the 9
10 smallest of which is most directly influenced by what they read and the largest 10
11 of which is usually only reached indirectly. The smallest group of readers is a 11
12 relatively tight-knit "self-contained group" of fellow bloggers who regularly 12
13 monitor each other's posts. Broadening the reach of blogs is a second group: the 13
14 family and friends of each blogger who read both for the blogs' news value and 14
15 to maintain ties of kinship and friendship. "My family, my friends, journalism 15
16 students, people who see my by-line in the paper ...," said one journalist blogger 16
17 listing her main readers. This group probably contains several million, often 17
18 influential, people who are "30-60 years old, educated, frustrated, and want to 18
19 share ideas," added another. 19

20 They, in turn, forwards posts to a third group: their friends and contacts, who 20
21 spread content more widely through a mostly urban and relatively young group of 21
22 readers, particularly young professionals and urban students (some of whom may 22
23 have returned from overseas study where they were exposed to other Vietnamese- 23
24 and foreign-language blogs). These people will "jump in and out of favourite 24
25 blogs ... if there's something new they will share it immediately," said a retired 25
26 journalist in Ha Noi. The forth audience group is mainly reached indirectly, as 26
27 urban readers take home the information they have read and discuss it with family 27
28 members who are unlikely to access blogs themselves. "Although I don't expect 28
29 farmers and workers to read blogs because they don't know how to use (or have 29
30 access to) computers, the population is very young and young people all over will 30
31 begin to use the web. Then they'll start talking to their parents and grandparents," 31
32 said one veteran blogger. 32

33 Because of their reach and because their authors tend to hail from the country's 33
34 intellectual and sometimes political elite, the few hundred political blogs discussed 34
35 here are believed to have a disproportionately powerful influence over public 35
36 opinion, which in turn influences policy. Writers include professionals such as 36
37 writers, lawyers, doctors, teachers, and academics. "I think they blog because they 37
38 used to write, and there are no (longer) any official outlets for their writing," said 38
39 a Vietnamese-American academic who follows the blogosphere inside Vietnam 39
40 and maintains a popular blog himself. The largest sub group of professionals is 40
41 thought to be journalists who "blog because they have access to news" they are no 41
42 longer able to publish through the mainstream media, said a journalist in Ha Noi. 42
43 They upload news stories from official sources, provide personal comments and/ 43
44 or content, or combine these activities. 44

1 The Official Response to Vietnam's Growing civic Voices 1

2

3 As editorial controls over the state-owned media have tightened, blogs have played 3
 4 an increasingly important role in uncovering and disseminating information about 4
 5 corruption and other controversial issues that has no other route into the public 5
 6 domain. This has earned some bloggers a wide readership and considerable public 6
 7 respect, but also official ire. A series of arrests and the growing harassment of 7
 8 bloggers is evidence that Ha Noi wants to wrest control over information flows 8
 9 back from the blogosphere and into state hands. In a sign of how the repression of 9
 10 the Internet has grown, Vietnam was included in "The 2012 list of the Enemies of 10
 11 the Internet" released by Reporters without Borders. Others include Burma, China, 11
 12 Cuba, Iran, North Korea, Saudi Arabia, Syria, Turkmenistan and Uzbekistan 12
 13 which "combine often drastic content filtering with access restrictions, tracking 13
 14 of cyber-dissidents and online propaganda" (Reporters without Borders 2012). 14
 15 Reporters without Borders also noted that after China, and Iran, Vietnam now has 15
 16 the third largest number of bloggers in jail. Vietnam has been influenced by China 16
 17 for decades and followed a number of its economic policies. Unsurprisingly, many 17
 18 believe China to be the role model followed by Vietnam's government as it tries 18
 19 to control the blogosphere. 19

20 It wasn't always this way. The government was initially slow to recognize 20
 21 the potential threat posed to information control by the unofficial online media, 21
 22 and for some years ignored it altogether. In an interview with a newspaper writer 22
 23 in the early 2000s, one senior official was confused when the writer asked him 23
 24 to comment on the impact of blogs on news flows: "He thought I meant 'block 24
 25 calendars,' he'd never heard of blogs," the writer said.² Later, as blogs became 25
 26 better known and more widely read, the government began to monitor those written 26
 27 by Vietnamese living overseas but targeting readers inside the country. Some of 27
 28 the more scholarly blogs that commented on public policy were viewed as a useful 28
 29 resource. They were read regularly by senior ministers and their advisors, who 29
 30 saw them as windows on public opinion and sources of academic and scientific 30
 31 information that could be used to inform the policy making process. There is "not 31
 32 enough evidence to judge" how many of Vietnam's leaders personally read blogs, 32
 33 said a blogger in Ha Noi, although he and other interviewees believe several key 33
 34 leaders either monitor or instruct their secretarial staff to monitor blogs they think 34
 35 may be opinion-forming and/or critical of the government: "They don't speak 35
 36 about it but they do read blogs. I have personally printed some out and given 36
 37 (copies) to them," said a newspaper executive in HCMC. 37

38 But several events in the mid 2000s soured this relationship. First, the rapid 38
 39 development of Yahoo!'s online community worried the government because 39
 40 it created a forum where people gathered without government approval or 40
 41 supervision. The creation of early news blogs made "bloggers realize they didn't 41

42

43 ² In Vietnamese, the word "blog" is pronounced the same as the word "block"—the 43
 44 name given to the kind of calendars that have a tear-off page for each new day. 44

1 have to own a newspaper to express their opinion,” said one blogger. In 2006, 1
2 blogger Ha Kin, who worked for the Ministry of Foreign Affairs, blogged about 2
3 her experience organizing the Asia Pacific Economic Cooperation (APEC) 3
4 forum held in Ha Noi. The blog was a personal view of an official event, and 4
5 its publication demonstrated how information dissemination about such an event 5
6 was no longer the exclusive domain of the official media. “She got up to 26,000 6
7 hits a day, as much as a popular article on VietnamNet,” said a second Ha Noi 7
8 blogger. In 2007 Co Gai Do Long blogged gossip about popular singer Phuong 8
9 Thanh and was promptly sued for damage to Thanh’s reputation. The mainstream 9
10 media, which had until then avoided coverage of Thanh’s personal life because of 10
11 strict editorial controls on such tabloid writing, received readers’ complaints that 11
12 they were missing a story. Papers were forced to respond by picking up the story 12
13 and covering the resulting lawsuit. This early demonstration of the blogosphere’s 13
14 influence on the mainstream media showed “people who hadn’t blogged before 14
15 the power of blogging ... everyone wanted that notoriety,” the blogger added. 15

16 After building a following interested reading about celebrities, some bloggers 16
17 upped the ante, using their sites to organize public demonstrations. Anti-China 17
18 protests in 2007 gained significant online coverage and organizational backing and 18
19 became a rallying point for journalists who wished to support the demonstrators 19
20 but were unable to do so via their state-owned news organizations: “Blogging 20
21 became a political activity ... In late 2007 the government realized that the 21
22 blogging community could do something to threaten (it). There were many anti- 22
23 government blogs and personal attacks on top leaders,” one blogger recalled. 23
24 These cases came shortly before the post-PMU18 crackdown on the mainstream 24
25 media and increased the appeal of an alternative online outlet for mainstream 25
26 media writers: “When journalists found they had an outlet to express their opinion 26
27 without censorship they did it,” said a journalist who maintains her own blog. 27

28 What happened next is unclear: some interviewees believe that the government 28
29 began to more closely monitor and attempt to control the blogosphere at the urging 29
30 of the Chinese authorities, which were keen to suppress support for and news of 30
31 anti-China demonstrations. Others believe a senior Vietnamese official who had 31
32 come under attack by bloggers persuaded the Ministry of Culture and Information 32
33 to issue regulations to curb blogging. Whatever the details, “officials are now quite 33
34 aware of blogs,” which they increasingly view as unofficial news sites and wish to 34
35 regulate like online newspapers, noted a blogger and journalist in Ha Noi. 35

36 A number of regulations to control blogs have been issued in recent years or are 36
37 currently under discussion in draft form. In 2008, Decree 97 on the “Management 37
38 and use of Internet Services and Electronic Information on the Internet” was 38
39 published. It formalized management of the Internet under two ministries: the 39
40 Ministry of Information and Communication and the Ministry of Public Security. 40
41 Prior to this, the Ministry of Posts and Telecommunication had been responsible for 41
42 technical management of the net, but there had been no comprehensive provision 42
43 for the management of its content. In an early attempt to limit the publication of 43
44 sensitive information online, Article 6 of the decree prohibits acts including the 44

1 sharing of state secrets, opposing the state, and slandering or “hurting the prestige” 1
 2 of citizens (whether or not the information about that person or people is accurate). 2
 3 The decree also classifies Internet Service Providers as “Internet agents” and 3
 4 makes them responsible for monitoring content and user activity and reporting 4
 5 users in convention of Article 6. The decree clarifies that both the civil and penal 5
 6 codes might be used to punish infringement, making Internet use a potentially 6
 7 criminal act. 7

8 In 2010, a piece of lower-level legislation, Circular 14, was enacted to clarify 8
 9 some of the provisions of Decree 97. It stated that one of the “unlawful acts” for 9
 10 which Internet users might be punished was the “propagation of unlawful press.” 10
 11 Websites and social networks were told to store information about those who 11
 12 used/read them and to make this information available to the authorities when 12
 13 requested. Foreign service providers such as Yahoo! and Facebook, and blog hosts 13
 14 such as BlogSpot and Multiply—all of which are commonly used in Vietnam— 14
 15 came under pressure to bring their servers onshore inside Vietnam. All refused. 15

16 The following year, in February 2011, Decree 02 collated a number of media 16
 17 management rules, including one that clearly delineated between the official 17
 18 press and the unofficial online media, giving a degree of protection to the former 18
 19 but making it clear that these legal protections did not apply to the latter. Since 19
 20 then, a growing number of bloggers and online critics of the government have 20
 21 been arrested, harassed and jailed, mostly on charges of Anti-State Propaganda, 21
 22 a vaguely worded criminal offense. In early 2012, a draft decree was published 22
 23 by the Ministry of Information and Communication for comment by other 23
 24 government offices that, at the time of writing, remains in draft form. If published 24
 25 it will force offshore service providers to bring servers onshore to be overseen by 25
 26 the government and will make the use of pseudonyms and anonymous writing 26
 27 illegal. 27

28 Much of this legislation is unenforceable: For example, Yahoo! and Facebook 28
 29 both refused to consider bringing servers used by Vietnamese clients onshore and 29
 30 the government lacks the human and technological resources to enforce demands 30
 31 for information from ISPs (which themselves often lack the technology to shore 31
 32 the information demanded). But journalists and bloggers say the aim is not current 32
 33 enforcement. Instead, the growing body of legislation is an arsenal the government 33
 34 plans to use over time to jail some dissenters and threaten others. The Criminal 34
 35 Code’s all-inclusive ‘anti-state propaganda’ clause regularly comes under fire 35
 36 from international press freedom organizations and foreign governments that 36
 37 are lobbying Vietnam to improve its press freedom record. The new regulations 37
 38 provide legal tools with which critics of the government can be punished: “The 38
 39 regulations make it possible for them to harass people” in the hope that intimidation 39
 40 will slow the publication of critical information on the Internet, said one blogger. 40

41 To date there is little sign that these new laws are having the desired effect. In 41
 42 2012 the increasingly vocal online community began to talk openly about corruption 42
 43 and nepotism within the prime minister’s family, naming names and claiming to 43
 44 have access to high-level government information proving the prime minister’s 44

1 misdeeds. In response, in mid-September 2012 Prime Minister, Nguyen Tan Dung 1
 2 issued an order banning state employees from reading or forwarding blogs that 2
 3 it said contained “slanderous, fabricated, distorted, and untruthful information 3
 4 (designed) to paint a gloomy picture of the country’s governing apparatus.” The 4
 5 order named three blogs: Quan Lam Bao (“Officials doing journalism”), Dan 5
 6 Lam Bao (“Citizen Journalism”), and Bien Dong (“East Sea”—the Vietnamese 6
 7 name for the South China Sea, where disputes with China over ownership of the 7
 8 potentially oil-rich Spratley and Parcel islands are a highly controversial news 8
 9 topic in Vietnam). 9

10 The order told the Ministry of Information and Communication and the 10
 11 Ministry of Public Security to close the blogs, but an official in charge of media 11
 12 management within the public security ministry, who spoke on condition of 12
 13 anonymity, said his department lacks the technology to identify the compliers of 13
 14 these blogs, which are authored and edited anonymously. Immediately following 14
 15 the order’s publication via Vietnam Television’s main evening news program two 15
 16 of the blogs, Quan Lam Bao and Dan Lam Bao, posted notices on their sites saying 16
 17 they will continue to publish as usual: “Nobody can shut our mouth or stop our 17
 18 freedom of expression ... This is our mission, we will continue at any cost,” Dan 18
 19 Lam Bao told the Associated Press. Indeed, far from slowing readership, the prime 19
 20 minister’s order has piqued the publics’ interest in these controversial blogs and 20
 21 their readership rose significantly the day after the order was published as curious 21
 22 members of the public and state officials logged on the see what stories they 22
 23 cover. Readership of Dan Lam Bao rose from 20,000 to 35,000 hits, according to 23
 24 statistics published by Google Analytics and quoted by Dan Lam Bao. 24

25 25
 26 26

27 **The Growing Influence of Online Media on Government and Governance** 27

28 28

29 Today the Vietnamese blogosphere is firmly entrenched and performs multiple 29
 30 roles. The presence of the blogosphere is boosting government accountability, 30
 31 providing not just an outlet for unhappiness with the system but also a place 31
 32 where conflicts can be mediated. An example of how the blogosphere has affected 32
 33 government accountability can be seen in the very different ways a series of 33
 34 disputes over land and corruption have been made public in the past two decades: 34
 35 the Thai Binh protests of 1997, the Central Highlands protests of 2000, and the 35
 36 Ecoland Park protests of 2012. As is true of many developing countries, disputes 36
 37 over land are common especially as the government tries to transfer land that had 37
 38 been used by farmers over to big businesses and for real estate development. In 38
 39 Vietnam, land is also a sensitive issue. Until the French colonized Vietnam, land 39
 40 was publicly owned (Kerkvliet) and the equal distribution of land was a large part 40
 41 of the land reform that took place after the Vietnam Communist Party took power. 41
 42 The fights over land use in Vietnam today are fueled by anger over corruption 42
 43 but ultimately may make the government more accountable and even democratic 43
 44 (Wells-Dang). 44

1 Land in Vietnam is all owned by the state but as part of the 1986 Doi Moi 1
2 reforms private land leases were introduced to encourage investment in agriculture 2
3 and, later, private business. The granting of these leases has provided ample room 3
4 for petty corruption as local authorities demand fees and favors in return for their 4
5 allocation. Also, the prioritization of leases for ethnic Kinh majority families over 5
6 ethnic minority groups has caused much public discontent in minority areas. The 6
7 first agricultural land leases were issued in the late 1980s for 20 years and will soon 7
8 expire. However, in some places local authorities, keen to transform farmlands 8
9 into lucrative construction sites, are forcing farmers to give up their land early, and 9
10 this has created a groundswell of public discontent around Vietnam. 10

11 The province of Thai Binh is in the Red River Delta and located some 80 11
12 kilometers southeast of Hanoi. In 1997, demonstrations broke out there as 12
13 villagers protested fees levied on them by local officials and alleged corruption 13
14 by these officials. The protests lasted for months and were discussed everywhere 14
15 except the official media. Foreigners compared notes and rumors at diplomatic 15
16 cocktail parties and the Vietnamese also talked about it a great deal. There is a 16
17 Vietnamese expression along the lines of “the 10 cent cup of coffee goes around 17
18 the world,” that refers to how gossip was spread in the morning at the sidewalk 18
19 coffee shops popular with urban Vietnamese. This was true in the case of the 19
20 Thai Binh protests. The authorities had apparently sealed off the province and 20
21 they imposed a complete news blackout on the events at Thai Binh. To this day 21
22 it’s not publicly known whether the police fired on the protestors or how many 22
23 people were killed (Hayton 2010). But the fact that the protests had happened was 23
24 confirmed to the outside world when in September 1997, the government admitted 24
25 at a press briefing with foreign journalists that there had been some “incidents” 25
26 in Thai Binh and that local officials had been disciplined (Schiffrin 1997). This 26
27 was followed by a four-part series in the army’s newspaper *Quan Doi Nhan Dan* 27
28 suggesting that local officials had been levying fees for infrastructure construction 28
29 and then pocketing some of the money, but with satellite television still banned 29
30 and the Internet not yet connected, the State had a complete monopoly on the what 30
31 news was reported inside Vietnam. 31

32 After the *Quan Doi Nhan Dan* article, newspapers announced that provincial 32
33 governor and Central Committee member Vu Xuan Truong and 50 other officials 33
34 were dismissed. Vietnamese media also ran articles about the great achievements 34
35 of the province. The Grassroots Democracy Decree which was announced by the 35
36 Party in 1997 was viewed as a response to the Thai Binh Protests (Hayton) and 36
37 was meant to make local officials accountable. 37

38 Four years later in 2001, and again in 2004, more serious protests erupted: this 38
39 time in the Central Highlands region, home to many of Vietnam’s Hmong and 39
40 other animist or Christian minority hill people who have traditionally offered little 40
41 support to the Communist authorities and in some places were then still living 41
42 a nomadic slash-and-burn life. As part of its economic transformation, Vietnam 42
43 in the 1990s targeted coffee as a key export commodity and chose the central 43
44 highlands region for its cultivation. To build and farm these new plantations, 44

1 ethnic Kinh people were encouraged to move to the sparsely populated highlands 1
2 region, and its population quadrupled from 1975 to the early 2000s (Human Rights 2
3 Watch paper). The land they cleared for coffee was taken from minority people 3
4 who, with no traditional concept of private land ownership, were forced onto 4
5 marginal lands. Resources such as timber and grazing land were depleted, and 5
6 the “net effect of these interlocking processes (was) a gradual dispossession and 6
7 displacement of indigenous highlanders” (Salemink 2008). In response, Hmong 7
8 church and other community leaders organized ongoing mass protests outside 8
9 local government offices. The involvement of church leaders heightened tensions, 9
10 as the Hmong community does not accept Vietnam’s official form of Christianity, 10
11 which incorporates loyalty to the Communist Party, but practices its own version 11
12 of the faith. In 2001, and again three years later, the authorities responded with 12
13 force, bringing in the military to suppress the protests and forcing hundreds of 13
14 protest leaders and participants to flee over the border to Cambodia. Many were 14
15 caught, returned, and jailed. 15

16 Through the period, the state media portrayed the protesters as enemies of 16
17 the state supported by Anti-Communist lobby groups overseas, ungrateful of 17
18 the benefits state policy had bought to their undeveloped region. The foreign 18
19 press and diplomatic corps was barred from entering the region, although news 19
20 agencies nonetheless covered the news in a limited manor. Inside Vietnam, a 20
21 small number of urban Internet users were beginning to access these reports. 21
22 Although the government blocked access to major foreign news sites, overseas 22
23 Vietnamese communities bypassed this rudimentary firewall by emailing stories to 23
24 relatively inside the country who then forwarded them to others. The State’s grip 24
25 on information flows was weakening. 25

26 A third major land dispute demonstrates how far the online media has come 26
27 in forcing transparency upon the State. In April 2012, 3,000 police and private 27
28 security guards were bought in to clear around 1,000 farmers from their land in 28
29 Van Giang (Hung Yen province) ahead of the planned development of a luxury 29
30 Ecopark housing development in which many high-ranking officials are believed 30
31 to have invested. The 500-hectare project required the removal of thousands of 31
32 farmers from their land. Media coverage of the land clearance operation was 32
33 banned well before the event took place. But then a blogger, Nguyen Xuan Dien, 33
34 “blogged about it live when the police came,” according to a fellow blogger. Dien 34
35 was later taken into custody and questioned by police, but the story had been 35
36 broken. Although an embargo on official news about the park remained in place 36
37 and was strictly enforced, the next day news organizations—pushed to cover the 37
38 issue by readers who had learned of it online—began to write editorials relating 38
39 to land tenure and government corruption in land management. Blogs now offer 39
40 their readers access to news that mainstream news groups cannot. Indeed, they 40
41 have become so institutionalized that they are now known as the “left lane” of 41
42 information flows. While official news flows along the “right lane” (the correct 42
43 driving lane in Vietnam), bloggers fill the left lane. “Readers access both, and 43
44 when there’s not much on the right lane they will go to the left,” according to one 44

1 journalist who also blogs. The forced release of information about the Ecopark 1
 2 case, as well as coverage earlier in the year of the unfair eviction of a tenant farmer 2
 3 near Hai Phong who protected his land using a homemade shotgun, have created 3
 4 such a public outcry that the government has promised to put reform of the land 4
 5 law on the legislative agenda. 5

6 This is not the first time bloggers have forced policymakers to act. In 2007 6
 7 the prime minister approved a Bauxite mining project in the Central Highlands, 7
 8 granting most of the work to a Chinese contractor. Opponents believed that the 8
 9 project was environmentally unsound and, because much of the work would be 9
 10 done by Chinese laborers and profits repatriated to China, economically of little 10
 11 value to Vietnam. In early 2009, war Veteran General Vo Nguyen Giap wrote 11
 12 an open letter to the prime minister requesting additional impact studies and his 12
 13 letter was circulated online. Academics joined him, launching a blog, www. 13
 14 bauxitevietnam.info, to lobby for change. The state responded by blocking the 14
 15 site, which moved to another server, playing cat and mouse with the authorities 15
 16 until the lobbying momentum the blog had created eventually forced Hanoi to act. 16
 17 In April 2009/10 the Politburo agreed to review the project, which was sent back 17
 18 to the National Assembly (parliament) where normally passive members took the 18
 19 opportunity not only to re-evaluate the mine but also to openly question the prime 19
 20 minister's decision to split the \$1.1-billion project into smaller parcels, which had 20
 21 allowed his office to bypass the legal requirement that projects worth more than 21
 22 \$1 billion be scrutinized by parliamentarians before being approved. The Bauxite 22
 23 site showed that blogs "can have significant influence, especially when policy is 23
 24 being made. (National Assembly) delegates used to monitor the mass media to 24
 25 gauge public opinion, but they no longer trust it. Now they monitor blogs," said a 25
 26 well-known blogger. 26

27 It also exposed high-level intra-party discussions, forcing a degree of 27
 28 transparency not often seen in Vietnam. When a group of retired war veterans 28
 29 wrote to the Politburo demanding that officials tainted by the bauxite case be 29
 30 reprimanded or removed, their letter was circulated through the blogosphere. 30
 31 Senior Politburo officials responded by telling the veterans to air their concerns in 31
 32 private, and rumors circulated that Politburo member Trung Tan San had visited 32
 33 one retired general and a tense conversation had ensued. The general responded to 33
 34 these rumors by posting a note on the bauxite blog explaining that the conversation 34
 35 had in fact been cordial. Interviewees said that by doing so he dispelled rumors 35
 36 (and thus pacified the Politburo) while also keeping the discussion in the public 36
 37 domain. The extremely partisan nature of some more recent blogs, such as Quan 37
 38 Lam Bao and Dan Lam Bao, reveal the previously hidden disputes between high- 38
 39 level officials. The fact that the blogs currently under attack all oppose the prime 39
 40 minister suggests that the controversy is not coverage of politics, but coverage 40
 41 of personalities within the political structure. Blog Beo, a highly political blog 41
 42 written openly by the editor-in-chief of a large newspaper in Ho Chi Minh City, 42
 43 supports the prime minister and his policies and was not targeted under the recent 43
 44 administrative order. 44

1 **Conclusion**

2
3 By censoring some blogs and not others the government is performing a balancing 3
4 act—allowing some freedom but trying to maintain limits on what is said. 4
5 However, the anger and mistrust that is giving rise to the social tension being 5
6 played out in the blogosphere is not going to go away. As Vietnam continues to 6
7 develop economically there will likely be more inequality and more corruption, 7
8 more land grabs and more damage to the environment. The perception that access 8
9 to resources is a rigged game will continue to grow and anger over these issues is 9
10 fodder for the blogosphere in Vietnam just as it is in many other countries. Given 10
11 that Internet use is growing, the Communist Party of Vietnam will likely continue 11
12 doing what it’s been doing: allowing the Internet to thrive but cracking down on 12
13 dissent when it perceives a threat. 13
14 However, the benefits of the blogosphere are greater than the risks. By holding 14
15 the government to account and providing a space where people can air their 15
16 grievances it may turn out that the Internet will help the Party more than it harms it. 16
17 The CPV knows it needs it must address corruption and knows the media to help it 17
18 fight against corruption (Cain 2012, McKinley 2008) but continues to try to control 18
19 the way that “help” is given. An October 2012 politburo meeting, that before it met 19
20 had been rumored to be preparing to oust Prime Minister Dung because of his 20
21 alleged mismanagement of the economy, instead issued a public apology admitting 21
22 its failure to contain corruption. President Nguyen Phu Trong ended the meeting 22
23 by saying: “The politburo have seriously self-criticized and honestly apologize 23
24 to the Central Committee for the shortcomings in party building, cases of moral 24
25 decay among party members and cadres” (BBC, October 16, 2012). He said 25
26 Vietnam’s top decision-making body had decided not to “discipline one member.” 26
27 This unwillingness to upset the apple cart, even when the apples are believed by a 27
28 growing number of people to be rotten, indicates Hanoi’s overwhelming desire to 28
29 ensure stability. But in order to do so, it must walk a fine line between controlling 29
30 information flows and suppressing bad news, and allowing enough news to reach 30
31 Vietnamese citizens to assure them that their government is really addressing the 31
32 ever-growing problem of graft. 32
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Chapter 11

Dynamics of Innovation and the Balance of Power in Russia

Gregory Asmolov

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In recent years information technologies have played a variety of different roles in social and political movements. Information and communication technologies (ICTs) suggest new ways of manifesting both symbolic power, for example new ways of framing and agenda setting, and material power, for example new opportunities for simplifying the organization of collective action. Manuel Castells explores the role of ICTs in power relationships through the notion of mass self-communication. According to Castells (2007), mass self-communication is a “building of autonomous communication networks to challenge the power of the globalized media industry and of government and business controlled media” and, more generally, “the capacity by social actors to challenge and eventually change the power relations institutionalized in society” (2007: 248).

This chapter analyzes the Russian protests of 2011–2012 as a case study for examining the role of ICTs in the relationship between authoritarian power and citizens. From the mass self-communication perspective, the protests suggest another case study of the role of ICTs in the emergence of political counter-power. In this case, the question that should be asked is to what extent the application of a particular technology was able to challenge the balance of power. I also argue that an analysis of the role of ICTs role in political and social mobilizations should also focus on the process of emergence of new tools, rather than on analyzing functions of particular applications and platforms. Examining the dynamics of the process can help to understand the role of ICTs in a particular sociopolitical environment and to respond to the question of whether ICTs erode or strengthen authoritarian power. The process under investigation is political innovation, in other words the capacity of participants in a political conflict to create new tools that seek to challenge or protect the balance of power. Addressing the dynamics of political innovation requires us to address the following questions: To what extent are oppressed groups able to adapt to new political challenges and introduce new tools, doctrines and forms of organization? To what extent is a government able to introduce or respond to innovation? What is the nature of the dynamic in a balance of power, and do ICT innovations favor one side or eventually preserve the status quo? Does innovation suggest a temporary advantage for a particular side or does it lead to permanent changes in the balance of power?

1 There are a several reasons why Russia, and in particular the Russian electoral 1
 2 cycle of 2011—2012, provides a good case study for the analysis of the political 2
 3 innovation process. First, Russia provides a fruitful environment for innovation 3
 4 due to the relatively high penetration of the Internet and the degree of ICT literacy, 4
 5 especially in the big cities which are considered to be where the politically active 5
 6 middle class lives. Second, historically, since the end of the 1990s, the Internet 6
 7 has had a consistently significant political role in Russia. While the traditional 7
 8 media, and in particular television, are controlled by government, the Internet 8
 9 remains a relatively free space. Unlike the traditional media, the Russian online 9
 10 space has tended to have a more oppositional agenda and to suggest a contestatory 10
 11 framing of political events (Etling et al. 2010). In addition, Russian Internet users 11
 12 have already had experience of using online tools for the facilitation of collective 12
 13 actions to address social issues (Machleder and Asmolov 2011). Third, the period 13
 14 between the two rounds of voting in December 2011 and March 2012 constitutes 14
 15 a timeframe with a high concentration of political challenges and this served to 15
 16 accelerate the innovation process. 16

17

18

19 **A Framework for the Analysis of Political Innovation** 19

20

21 The role of innovation in the balance of power between the sides in a conflict is 21
 22 analyzed in the field of security studies, and particularly in terms of the Revolution 22
 23 in Military Affairs (RMA) concept. One of the questions for RMA concerns 23
 24 when a particular technology is able to empower one side in such a way that 24
 25 this substantively erodes the power of the other side. RMA refers to the “major 25
 26 change in the nature of warfare brought about by the innovative application of 26
 27 new technologies which, combined with dramatic changes in military doctrine 27
 28 and operational and organizational concepts, fundamentally alters the character 28
 29 and conduct of military operations” (Marshall cited in McKittrick et al. 1995). 29
 30 Similarly, the analysis of the dynamics of political innovation seeks to understand 30
 31 the extent to which ICTs can change the nature of political conflict and lead to 31
 32 substantial change in a balance of power between state and protesters. In the case 32
 33 of political conflict, the role of innovation is significant only if it is supported by 33
 34 changes in the organizational and doctrinal dimensions. For instance new tools can 34
 35 lead to new forms of protest. The framework for the analysis of the dynamics of 35
 36 political innovation suggests three layers: 36

37

38 *a) The Structure of Political Challenges* 38

39

40 The political environment is shaped by the structure and diversity of political 40
 41 challenges. Innovation is triggered, inspired and driven by these challenges. 41
 42 Therefore understanding the functions and dynamics of political ICT innovations 42
 43 requires an analysis of the structure of the political challenges. If the challenges are 43
 44 not considered sufficiently significant, this may mean there is a lack of incentive 44

1 for innovation. In a situation of crisis and political instability, the challenges tend 1
 2 to become more significant. Innovation by the opposition side creates political 2
 3 challenges for the authorities, which may also respond with innovation. 3
 4 4
 5 *b) The Structure of Innovation Opportunities* 5
 6 6
 7 While innovation is led by the nature of the challenges, there are factors that may 7
 8 lead to opportunities being taken or cause them to be missed. Social movement 8
 9 literature introduces a variety of definitions of political opportunity structures. 9
 10 For instance, according to Garret, opportunity structures are “attributes of a 10
 11 social system that facilitate or constrain movement activity” (Garret 2006). In 11
 12 order to understand the role of ICT, we need to examine what capacity exists for 12
 13 using technology to address political challenges, in other words the innovation 13
 14 opportunity structure. That requires mapping the factors that allow or restrict 14
 15 innovation. 15
 16 The innovation opportunity structure is associated with two factors. The first 16
 17 is whether the particular political challenge can be addressed through ICT-based 17
 18 tools. The second is whether the oppressed group has the technical capacity to 18
 19 develop such tools. This can include the capacity of programmers and activists to 19
 20 collaborate, the degree of information literacy and tech-savviness among political 20
 21 protesters, the level of Internet penetration, the degree of Internet freedom, the local 21
 22 legislation, and so on. We must also differentiate between two types of innovation. 22
 23 The first type is the development of original solutions by local programmers and 23
 24 activists. The second is the adaptation of existing solutions, including platforms, 24
 25 political strategies or tactics, from other countries. The latter requires the existence 25
 26 of “bridge persons” who are able to take experience from one political environment 26
 27 and apply it to another context (Zurckerman 2008). 27
 28 28
 29 *c) The Role of the Balance of Power between Protesters and Authorities* 29
 30 30
 31 An innovation process is a chain that starts with a challenge to one side in a conflict 31
 32 that provides new opportunities for the application of ICT and in turn creates a 32
 33 challenge for the other side. The degree of challenge to both sides depends on the 33
 34 extent to which a particular innovation changes the existing balance of power and 34
 35 thus the status quo. Innovation contributes to this dynamics, but also emerges as 35
 36 a part of the dynamics, while any response by the authoritarian power (whether it 36
 37 uses technological innovation or traditional forms of power) to innovation leads to 37
 38 the creation of a new political challenge that can be addressed by a new innovation. 38
 39 Consequently, innovation is a mutually reinforcing process, where both sides 39
 40 may use various applications or tools to increase their own power or decrease 40
 41 the empowerment of the other side. Therefore, in order to follow the dynamics 41
 42 of innovation we need to address the interrelation between innovative solutions 42
 43 deployed by power and counter-power. In what follows, I present four case 43
 44 studies exhibiting innovation practices and technologies related to expanding the 44

1 abilities for *election monitoring, the organization and mobilization street protests,* 1
 2 *the consequent coverage and protests and opposition activities,* and finally, their 2
 3 impact on the *political solidarity and legitimacy of protest leaders and organizers.* 3

4 4

5 5

6 **Election Monitoring** 6

7 7

8 Election monitoring is a common political challenge in political systems with 8
 9 a low degree of transparency and a high probability of voting falsifications. 9

10 Monitoring seeks not only to reduce the scale of fraud, but also to question the 10
 11 legitimacy of elections by exposing the scale of falsifications. In recent years the 11

12 use of crowdsourcing platforms for election monitoring has become common. 12

13 The Ushahidi crowdsourcing platform has been used in many election campaigns, 13

14 from Kyrgyzstan to Egypt (Meier 2011a). The Russian case presents the role 14

15 of innovation in the emergence of multidimensional monitoring systems with a 15

16 variety of ICT-based tools and platforms. 16

17 The crowdsourcing platform Map of Violations (kartanarusheniy.ru) was 17

18 launched by the election monitoring NGO *Golos*. This was a website developed 18

19 from scratch to address the specific needs of Russian election monitoring. Its 19

20 structure included a number of special features such as expert evaluation, the 20

21 rating of popular violations and the incorporation of crowdsourcing content with 21

22 traditional media content. Strong collaboration with an online liberal media outlet, 22

23 *Gazeta.ru*, helped to engage more people in monitoring, as well as to incorporate 23

24 the results of crowdsourcing into the media agenda. *Karta Narusheniy* was able 24

25 to collect thousands of messages during each election cycle. Russian citizens also 25

26 actively used social networks, Twitter and blogs to share first-hand information, 26

27 documents, photos and video of violations. Citizen-based reporting and user- 27

28 generated content surprise no one these days. Of greater interest are the scale, 28

29 immediacy and value of the reporting. The outcome of monitoring depends on the 29

30 relationship between the scale of falsifications and the capacity of citizens to cover 30

31 these falsifications. 31

32 The crowd of Russian networked citizens was also able to collect, post, and 32

33 share a critical mass of reports concerning falsifications including documents and 33

34 video reports. For instance, a YouTube playlist posted after the elections included 34

35 the 60 most viewed videos of documented violations. The capacity of the Russian 35

36 networked crowd relied on well-developed Internet infrastructure that allowed 36

37 users to share information online almost in real time, and on the structure of the 37

38 Russian Internet space, where interconnectedness between various platforms led to 38

39 the rapid proliferation of information. The significant public exposure to the scale 39

40 of fraud in the parliamentary elections visibly resulted in an accelerated process 40

41 of innovation in the three-month period leading up to the presidential elections. 41

42 A variety of new tools for election monitoring were introduced, addressing a 42

43 diversity of monitoring-related challenges: 43

44 44

1	<i>a) New Methods for the Collection of Violation Reports</i>	1
2		2
3	The NGO <i>Golos</i> developed a service (sms.golos.org) which allowed the collection	3
4	of reports from observers in real time through text messages. A group of activists	4
5	developed, a special election monitoring application for smartphones. The	5
6	application Webnablyudatel (webnabludatel.org) classified all violations and	6
7	made it possible to instantly share video, photos and reports of these. Later, a	7
8	Tweet Observer platform was introduced in order to create better opportunities for	8
9	Twitter users to report violations. ¹	9
10		10
11	<i>b) Data Mining and Verification of Monitoring Results</i>	11
12		12
13	A platform, <i>Svodny Protocol</i> (svodnyprotokol.ru), was created for the collection	13
14	and analysis of election observers' reports and protocols. This system presents the	14
15	idea of "bounded crowdsourcing," where information was collected from a limited	15
16	number of contributors who have special access to the event of interest and whose	16
17	identities have been verified.	17
18		18
19	<i>c) Mobilization of Observers</i>	19
20		20
21	A number of platforms were created to enable any individual to become an	21
22	observer. One such platform, aimed at simplifying the procedure for becoming	22
23	an observer, was rosvybory.org. A similar function was offered by the Citizen-	23
24	observer project (nabludatel.org). In St Petersburg, a website, Saint Petersburg	24
25	Observers (spbelect.org), was launched by a group of local activists.	25
26		26
27	<i>d) Coordination of Monitoring</i>	27
28		28
29	Russian developers introduced <i>Grakon</i> (grakon.org), a special social networking	29
30	platform for election monitoring. The purpose of this platform was to make	30
31	election monitoring and coordination between various groups of observers as	31
32	simple as possible.	32
33		33
34		34
35	Analysis: Election-monitoring and Balance of Power	35
36		36
37	A number of actions were undertaken to reduce the impact of the Map of Violations	37
38	(<i>Karta Narusheniy</i>) and other monitoring efforts. One of the authorities' strategies	38
39	was to put pressure on the media. <i>Gazeta.ru</i> was forced to revoke its endorsement	39
40	of <i>Karta Narusheniy</i> . Additionally, the authorities embarked on a court case	40
41	against the platform, accusing it of distributing false information. Pro-Kremlin	41
42	activists contributed false reports to the platform in order to demonstrate that it	42
43		43
44	¹ The platform was used at regional elections in October 2012.	44

1 was not credible. A video distributed on YouTube showed how this was done 1
 2 and described the dots on the *Karta Narusheniy* map as a “disease on the map of 2
 3 Russia” (Meier 2011b). Additionally, on election day unprecedented distributed 3
 4 denial-of-service attack (DDoS) attacks blocked the crowdsourcing platform, as 4
 5 well a number of Russian online liberal media outlets.² Anton Nossik, a well- 5
 6 known Russian Internet expert, compared this attack with the long-time Soviet 6
 7 attempts to block reception of foreign radio broadcasts. 7

8 As a response to the DDoS attacks, online media began using Facebook, 8
 9 Twitter and other media that were not affected by the attacks for the proliferation 9
 10 of content related to the elections (Sidorenko 2011). *Karta Narusheniy* also used 10
 11 Google Documents to continue collecting information. The emergency migration 11
 12 to alternative platforms demonstrated that the opposition and the liberal media 12
 13 were able to adapt to the attacks and create new patterns of information distribution. 13

14 Following the parliamentary elections, the state’s response strategy changed 14
 15 from one of legal prosecution and DDoS attacks to a more innovative track. 15
 16 Following an order from Putin, a special online system for election monitoring, 16
 17 *webvybory2012.ru*, was developed. This allowed people to follow the majority 17
 18 of Russian polling stations (about 95,000) online on the day of the presidential 18
 19 election. Every polling station was equipped with two cameras, one focused on 19
 20 the ballot box and the other giving a general view of the polling station. Once the 20
 21 voting was over, one of the cameras broadcast the counting of votes. The cost of 21
 22 this project was at least 13 billion rubles (around US\$500 million). 22

23 Opposition activists argued that the most common election violations could 23
 24 not be monitored by webcams. Nonetheless, the cameras did allow numerous 24
 25 violations to be spotted. However, this did not finally lead to reconsideration 25
 26 of any election results. In this case the innovation served not to increase the 26
 27 transparency and accountability of the voting process, but primarily to create a 27
 28 widespread semblance of transparency and accountability. It is also important 28
 29 to note the enormous gap between the costs of the citizen-based crowdsourcing 29
 30 election monitoring systems and the system introduced by the authorities. The 30
 31 opposition also tried to use innovation to overcome the limitations of the new 31
 32 state system. *Webvybory2012* did not allow any recording mode or function which 32
 33 would permit complaints about violations; however a few special applications were 33
 34 developed by protesters in order to increase the efficiency of the state surveillance. 34
 35 Additionally, relying on the state system, the Video Observer platform ([http:// 35](http://videonabludatel.org/)
 36 videonabludatel.org/) allowed tasks to be distributed among a network of online 36
 37 observers. 37

38 Innovation in the election-monitoring field challenged the balance of power 38
 39 between state and citizens. Michel Foucault used Jeremy Bentham’s concept of 39
 40 the Panopticon as a model for the total surveillance by a state of its citizens. Some 40
 41 experts argue that ICTs and the Internet contribute to a state’s capacity to monitor 41

42 _____ 42
 43 2 These attacks cannot conclusively be attributed directly to Russian authorities, but 43
 44 there is evidence indicating that Pro-Kremlin groups were involved in conducting them. 44

1 its citizens. As we can see from the Russian case, however, in a context where 1
2 every citizen is potentially a networked broadcasting sensor the situation can 2
3 also be the opposite, with an increasing number of citizens monitoring the state. 3
4 Information technologies have empowered the other side of the Panopticon by 4
5 creating self-organizing surveillance networks focused on the observation of the 5
6 authorities (Asmolov 2011). The introduction of the Russian surveillance system, 6
7 Webvbyory2012, which is in fact the largest Panopticon in human history, can be 7
8 viewed as the state's attempt to use innovation to restore the balance of power 8
9 within the Panopticon structure through engagement of people's gaze within a 9
10 state-backed network of sensors. 10

11 Innovation did not lead to a reconsideration of the voting results. However, 11
12 ICTs enabled a questioning of the legitimacy of the elections and triggered political 12
13 protests. Innovation in the field of election monitoring led to the emergence of 13
14 new political opportunities and challenges that were in turn addressed by sets of 14
15 innovations in other fields. The further case studies address the other elements in 15
16 the innovation chain. 16

17 17

18 18

19 **Mobilization and Organization of Protests** 19

20 20

21 One of the common challenges for the organization of protests is mobilizing 21
22 citizens. Following the parliamentary elections, Russian political activists used 22
23 a range of existing online platforms, including Facebook, Twitter, Vkontakte, 23
24 LiveJournal and others, to mobilize participation in protest rallies. One of the 24
25 most successful Facebook event pages was created by a journalist, Ilya Klishin, 25
26 for a protest at Sakharov Square in Moscow on December 24, 2011. More than 26
27 54,000 people joined the event page. The actual number of participants in the rally 27
28 was somewhere between 29,000 (according to official police data) and 120,000 28
29 (according to organizers' data). 29

30 The use of traditional online mobilization tools, however, was not felt by 30
31 Russian opposition activists to be sufficient. "The space of Facebook and Twitter 31
32 became too narrow for us," says Klishin (in personal). He started a practice of 32
33 creating dedicated websites for specific protest events by launching the dec24. 33
34 ru website, providing up-to-date information and links to mobilization groups on 34
35 different platforms, for a rally to take place on December 24, 2011. The need 35
36 to expand the range of mobilization tools was also related to the structure of 36
37 the political challenges faced. Organizers of protests faced pressure, including 37
38 questioning, prosecution and arrest, from the Russian security services. 38
39 Additionally, the authorities required legal approval for the organization of protest 39
40 events. Both challenges demanded new forms of protest and new strategies for 40
41 their organization—below are four such categories of new organizational forms. 41

42 42

43 43

44 44

1	<i>a) Car protests</i>	1
2		2
3	On a few occasions, social networks and blogs were used to organize simultaneous	3
4	flash mob protests in few cities, during which people with white ribbons	4
5	symbolizing the protest on their cars gathered at a specific time and location. Some	5
6	of these protests attracted more than 1,000 cars. Pro-Kremlin movements later	6
7	adopted the same form of protest.	7
8		8
9	<i>b) Single Protest</i>	9
10		10
11	According to Russian law, a protest by one person does not require special	11
12	permission. An example of how this can be exploited through amplification by	12
13	ICTs was provided by Olesya Shmagun, who made a poster that read “Putin, go	13
14	out and take part in public debates!” and stood with this by the entrance to Vladimir	14
15	Putin’s office. She was questioned by the government security service, but was not	15
16	detained. Later, she published the story of her protest, together with photos, on her	16
17	LiveJournal blog. Just a few dozen people were able to see Shmagun’s protest in	17
18	the offline world, but the blog post drew attention and was shared by many blogs	18
19	and media outlets.	19
20		20
21	<i>c) Large-scale Decentralized Mobilization</i>	21
22		22
23	In February 2012, the opposition initiated the Big White Circle action (Khoklova	23
24	2012a). The idea behind this was to cover the circular road around Moscow’s	24
25	center (known as the Garden Ring) with a chain of protesters. Unlike the previously	25
26	mentioned protests, this did not receive a permit from the authorities. Additionally,	26
27	it was a particular challenge to cover the entire Ring of about 15 kilometers. A	27
28	special online tool, the Feb26.ru website, was developed to organize this protest.	28
29	This allowed people to check in at locations of their choice on the map of the	29
30	Garden Ring, and showed which locations were already occupied. Unlike other	30
31	protests, the Big White Circle had no organization committee or individual leader.	31
32	The role of leader was played by a website. Seven-thousand-eight-hundred-and-	32
33	forty-three people registered for the action and the online circle showed a relatively	33
34	equal distribution of check-ins. While this would not have been enough to cover	34
35	the whole circle, the actual number of participants was more than 20,000.	35
36	The action had two layers: it included people standing in the road and hundreds	36
37	of cars with symbols of the protest driving around sounding their horns. The	37
38	police distributed their forces around the circle, but no action was taken against	38
39	the protesters. The nature of protest required the mobilization of a large number of	39
40	policemen dispersed over a wide territory; therefore, it was difficult to concentrate	40
41	police forces in one place. This case demonstrates how ICTs enable new forms	41
42	of protest which have no clear leader, are decentralized, can bypass some legal	42
43	restrictions and create new challenges for the authorities. The ideas of the protest,	43
44	as well as its leadership functions, are embedded within the online platform.	44

1 *d) Migration of Occupy Protesters* 1

2 2

3 Following the Russian presidential elections, protesters tried to create Occupy 3
 4 camps. This was an adaptation of the protest tactics used in the US and other 4
 5 countries. The police attempted to close the camps and arrest the activists. As a 5
 6 response, activists started to use Twitter and social networks to coordinate the 6
 7 migration of camps from one location to another. The migration was so fast and 7
 8 well-coordinated that police were not able to respond fast enough and follow 8
 9 protesters. At some point the security forces became exhausted and a camp, 9
 10 #OccupyAbay, succeeded in surviving in one location for a few days. 10

11 11

12 12

13 **Analysis: Mobilization and Balance of Power** 13

14 14

15 In order to understand the role of ICTs in a power relationship, it is crucial to 15
 16 examine the capacity of both sides to apply innovation to its mobilization tactics, 16
 17 as well to restrict counter-mobilization. On the one hand, the authorities tried 17
 18 to limit the opposition mobilization through a number of methods, including 18
 19 prosecution, intimidation, arrests, as well as DDoS attacks on the platforms used 19
 20 for mobilization. Later, new legislation was introduced that significantly restricted 20
 21 the freedom to hold demonstrations. On the other hand, the challenge for the 21
 22 authorities was to mobilize supporters of the Kremlin in order to show that the 22
 23 protesters were a minority. They used a different type of online tool to mobilize 23
 24 people. A website, massovki.ru, that was usually used to engage paid participants 24
 25 for different types of public crowd event, such as the filming of a movie crowd 25
 26 scene, was used for the mobilization of pro-government rally participants. 26
 27 However, the mobilization of pro-government crowds mostly relied on offline 27
 28 strategies using so-called “administrative resources,” where various organizations 28
 29 including large factories and universities are required to send a particular number 29
 30 of people to a political event. For instance, this type of mobilization was used for 30
 31 a large pro-Putin rally at the Luzhniki Stadium on February 23, 2012 (Asmolv 31
 32 2012). 32

33 The opposition response to this was on two levels. On the one hand, they 33
 34 continued to introduce new forms of protest, exploring the limits imposed by the 34
 35 authorities. For instance, in May 2012 a group of famous writers organized the 35
 36 *Kontrolnaya progulka* (Control walk) when thousands of people were just walking 36
 37 on the streets of Moscow following the writers. At another level, the activists used 37
 38 ICTs to question the credibility of pro-government protests. Bloggers sneaked into 38
 39 pro-government events and interviewed people who had been forced or paid to 39
 40 participate. 40

41 The Russian case represents a struggle between bottom-up strategies of 41
 42 mobilization by an opposition relying primarily on innovation, including 42
 43 technological tools and new ways of organizing protests, and top-down 43
 44 mobilization by a government using primarily traditional strategies, while at the 44

1 same time trying to limit the innovative potential of the opposition. In some cases, 1
 2 as at the pro-Putin rally in Luzhniki, the top-down vertical mobilization used by 2
 3 the authorities was able to mobilize more people than the bottom-up mechanisms. 3
 4 However, what we can see is that different strategies for mobilization create very 4
 5 different kinds of crowd, and the difference in nature of the two kinds of crowd 5
 6 may be more important than the number of people. 6

7 7
 8 8

9 Coverage of Protests and Opposition Activities 9

10 10
 11 One of the challenges faced by opposition activists in an information environment 11
 12 with a high degree of state control over the traditional media is the coverage of 12
 13 protests. Obviously, user-generated content was widely used. However, innovation 13
 14 led to the emergence of new practices with greater capacity to influence framing 14
 15 and agenda-setting. The mobile-based, real-time broadcasting platforms ustream. 15
 16 com and bambuser.com were used to provide live coverage of the protests against 16
 17 the result of elections from the heart of the crowd. Some of the streams had an 17
 18 audience of more than 40,000 people at one time. A Russian blogger with the 18
 19 nickname *Vova-Moskva* became a “livestreamer” and provided real-time footage 19
 20 of protests, including clashes between the protesters and the police. At one of the 20
 21 protests he broadcast his own arrest. He also used crowdfunding to support his 21
 22 work. A member of the *Duma*, Ilya Ponomarev, broadcast live from the police 22
 23 station in Novosibirsk where he was detained for “illegal distribution” of his 23
 24 newspaper. 24

25 During the protests people detained in police cars used their mobile phones 25
 26 to broadcast live and to send photos. The detained participants of the rallies also 26
 27 actively used Twitter to update of their arrests, as well as to share information 27
 28 about the location of the police car taking them to the station. At the peak of 28
 29 the arrests, Twitter feeds were full of dozens of reports from those detained. The 29
 30 live broadcasting and tweeting of arrests increased transparency around the police 30
 31 actions. When an individual broadcast news that he had been detained, a group of 31
 32 his friends followed him to the police station and demanded his release. A group 32
 33 of volunteer lawyers was also following the information. A website, ovdinfo.org, 33
 34 aggregated information from different sources about arrests. When the number 34
 35 of arrests increased after the inauguration of President Putin, a political activist, 35
 36 Maxim Katz, created a center for the coordination of assistance to those detained, 36
 37 which sent lawyers as soon as information about arrests was received. The use of 37
 38 ICTs made it easier to hold the police accountable for their actions. 38

39 An additional challenge for the protest coverage was that of the representation 39
 40 of numbers of participants. The statistics on participation were highly contested, 40
 41 with the authorities always giving low numbers and the organizers arguing that 41
 42 the number of participants was very high. A programmer, Anatoliy Katz, created 42
 43 the White Counter, an application that was used to count protesters. The counter 43
 44 was based on an analysis of the large number of images taken every second. It was 44

1 used first time on June 12, 2012 demonstration. While police sources claimed that 1
 2 18,000 people participated in the protests, according to the counter it was 54,000. 2
 3 While participants in the opposition rallies produced a lot of online content 3
 4 in real time, almost no user-generated content came from pro-government 4
 5 demonstrations. The traditional, state-controlled media covered pro-government 5
 6 rallies extensively, while limiting the coverage of protests and framing opposition 6
 7 rallies as marginal activities. The dominant presence of oppositional content online 7
 8 is challenged by a number of tactics that can be attributed to pro-government 8
 9 interests. One of the tactics used was “hashtag spamming,” where pro-Kremlin 9
 10 activists used oppositional hashtags to distribute pro-government information or 10
 11 spam. The distribution of paid content in support of the authorities or against the 11
 12 opposition was also a popular method in the blogosphere. Additionally, armies 12
 13 of bots were leaving pro-government comments on various liberal websites and 13
 14 blogs. 14

15 DDoS, hashtag spamming and “bot renting” could not be directly attributed 15
 16 to the Kremlin. However, the tactics of pro-government activists and their links 16
 17 to the Kremlin were exposed when a group of hackers claiming to be a part of 17
 18 the international Anonymous network published email exchanges between a 18
 19 number of pro-Kremlin activists and members of the presidential administration. 19
 20 The contents of these individuals’ mailboxes were published on a special website, 20
 21 slivmail.com. In this case hacking was also a part of the dynamics of innovation, 21
 22 aiming to decrease the credibility of pro-government activities online. This method 22
 23 was inspired by Wikileaks and can be viewed as an adaptation of international 23
 24 experience to the Russian political context. 24

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27 **Political Solidarity and Legitimacy of Protest Leaders** 27

28

29 The activities of pro-government networks also included using technology 29
 30 to delegitimize the leaders of the opposition. For instance, the mailbox of a 30
 31 blogger and opposition leader, Alexey Navalny, was hacked several times. The 31
 32 content of email exchanges were used to argue that Navalny was getting paid 32
 33 for serving various “enemies of Russia.” Navalny’s Twitter account was also 33
 34 hacked and hackers started writing offensive messages purporting to come from 34
 35 him. However, the major legitimacy challenge faced by opposition leaders was 35
 36 not from the government, but from within the opposition. In the Russian political 36
 37 environment, many citizens have lost trust not only in government, but also in 37
 38 opposition politicians. The opposition forces are very diverse and divided. They 38
 39 include nationalists and liberals, social-democrats, anarchists, environmentalists 39
 40 and many more. 40

41 One of the most challenging issues for this type of opposition is coordinating 41
 42 activities between different factions and groups, as well as making decisions about 42
 43 the form and content of protests. To increase the transparency and legitimacy of 43
 44 decision-making around protests, the key discussions concerning the organization 44

1 of protests were live-streamed on a new online channel, Networked Public TV 1
 2 (rusotv.org). Another tool that helped to increase trust and transparency in the 2
 3 organization of protests was the use of online voting to select rally speakers. 3
 4 However, despite claims that the nature of Internet protest is leaderless, the 4
 5 question of how to establish a legitimate group of leaders became increasingly 5
 6 relevant once the time of big protests passed and the struggle entered a routine 6
 7 phase. A few months after Putin's inauguration, activists decided to conduct online 7
 8 elections and create a "Coordination Board of the Opposition." A special concept, 8
 9 procedure and dedicated platform (www.cvk2012.org) were developed under the 9
 10 direction of an opposition politician from Yekaterinburg, Leonid Volkov. 10

11 Volkov developed a complex and sophisticated system that addressed a variety 11
 12 of challenges, including the verification of voters, for ensuring that every Russian 12
 13 citizen who participated in the process voted only once. A variety of existing 13
 14 online platforms were used, as well as those developed especially for voting. In 14
 15 addition to online voting, a network of offline polling stations was created all over 15
 16 the country. The Russian online liberal TV channel, *Dozhd*, provided space for 16
 17 debates between candidates. The system faced a number of challenges, including 17
 18 DDoS attacks on election weekend and efforts to compromise the system through 18
 19 massive participation by members of a Russian financial pyramid, MMM. 19
 20 Eventually 170,012 people registered on the system, 97,727 verified their identities 20
 21 and 81,801 voted. A board of 45 activists was selected. Once the opposition had 21
 22 failed to achieve an annulment of the official voting results, it had decided to 22
 23 create its own alternative voting system. While the outcome of the voting is still 23
 24 unclear, these elections were the most innovative and large-scale online political 24
 25 experiment to date initiated by the Russian opposition. 25

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28 **Conclusion** 28

29 29

30 The outcome of the Russian protests demonstrates that ICTs alone cannot erode 30
 31 authoritarian power. The elected parliament and elected president remained in 31
 32 place. No political reform has begun. On the contrary, some new anti-liberal laws 32
 33 have been passed. However, this study also suggests that any evaluation of the 33
 34 role of ICTs that is dependent on a specific political outcome is misguided. The 34
 35 definition of success of political protests depends on expectations, which can vary 35
 36 greatly, as well as on dozens of political and socioeconomic factors existing in a 36
 37 particular political context. Moreover, any "cause and effect" evaluation focuses 37
 38 on short-term outcomes and ignores the possibility of long-term influence. 38

39 What is important for evaluating the role of ICTs is the extent to which society 39
 40 is able to address challenges and a consideration of state-citizen dynamics as 40
 41 a whole. This study suggests that in order to understand the role of ICTs in a 41
 42 power relationship between authorities and opposition we need to focus not on the 42
 43 outcome of particular ICT applications, but on the extent to which each side is able 43
 44 to use ICT-based innovation to address new political challenges, and the degree to 44

1 which this is capable of disrupting the status quo. This process is conceptualized 1
2 as the dynamics of political innovation. 2

3 Concerning the extent to which the oppressed are able to adapt quickly to new 3
4 political challenges and introduce new tools, doctrines and form of organizations, 4
5 we can note the diversity of ICT-based innovations introduced by the Russian 5
6 opposition in response to political challenges. This has included not only new tools 6
7 and applications, but also new forms of protest and new organizational strategies. 7
8 In some cases, like those of the Occupy migration tactics or the Wikileaks-type 8
9 activities, this was an adaptation of Western strategies. In other cases, like that of 9
10 the feb26.ru website, it was a novel innovation that addressed particular Russian 10
11 challenges and relied on local features of the protests. 11

12 In addition to opposition actors, the government also introduced some 12
13 innovative responses. However, the characteristics of these innovations were very 13
14 different. First, in most cases it was a response to innovation by the opposition. 14
15 It focused primarily not on empowering the authorities, but on neutralizing the 15
16 increasing power of the opposition. Second, some of these innovations were 16
17 based on illegal methods and, while they served the interests of authority, 17
18 could not be directly attributed to state institutions. Third, in comparison to the 18
19 innovations of the opposition, some of the tools proposed by the authorities 19
20 were disproportionately expensive. Fourth, unlike the cases of innovation by the 20
21 opposition, the technological innovations introduced by the authorities did not 21
22 lead to any real change in the state's own modus operandi. The organizational and 22
23 doctrinal aspects remained unchanged. 23

24 Lastly, regarding shifts in the balance of power, we can observe that the way 24
25 opposition activists used ICTs was in fact able to change the balance of power 25
26 in many fields, including election monitoring, the mobilization of protests, and 26
27 agenda setting. On the other hand, the innovations created by the opposition cannot 27
28 be considered as effectively disruptive. It has not led to a primordial advantage for 28
29 the opposition or to a strategic shift in the balance of power. Eventually, the state 29
30 was able to the restore the status quo that had been challenged by the innovations 30
31 of the opposition. However, in most cases the state action to restore that balance 31
32 relied not on innovation, but primarily on traditional doctrinal and organizational 32
33 strategies including the use of administrative resources for top-down mobilization, 33
34 on new forms of regulation based on new legislation, and on the mobilization 34
35 of traditional forms of power like the police to prosecute political activists and 35
36 restrict demonstrations. The role of innovation in the state's restoration of the 36
37 status quo was in most cases minor. While the state was able to restore the balance 37
38 of power, its capacity to respond to opposition challenges with innovations of its 38
39 own was more than limited. 39

40 With the opposition demonstrating a considerable capacity to address 40
41 political challenges through innovation, including diverse solutions which can 41
42 be implemented in a short time, the state may face a situation where addressing 42
43 innovation without innovation of its own will require more and more radical forms 43
44 of traditional power. However, offline administrative resources and other traditional 44

1 power resources may become exhausted and more radical and repressive actions 1
2 may be required. Eventually, this will contribute to destabilization and lead to the 2
3 creation of new and significant political challenges, which will be addressed by a 3
4 new wave of innovation. This may lead to a further proliferation of protests and to 4
5 increasing opposition empowerment. 5
6 Consequently, an analysis of the dynamics of innovation in the case of the 6
7 Russian elections may suggest that in the long term ICTs can contribute to the 7
8 erosion of authoritarian power and the strengthening of opposition activism. At the 8
9 same time, the significance of innovation and the realization of its potential depend 9
10 on the structure of the challenges that arise and on a variety of socioeconomic 10
11 and political factors. A few months after the 2012 presidential elections, floods in 11
12 southern Russia caused the death of more than 170 people. While the response of 12
13 the authorities was heavily criticized as insufficient (Lipman 2012), the Russian 13
14 people were able to use the Internet and to create a variety of tools that helped to 14
15 provide a self-organized emergency response (Khokhlova 2012b). The major role 15
16 of volunteers in emergency relief was another example of a shift in the balance of 16
17 power in a field traditionally dominated by state actors. 17
18 Any crisis situation can create new challenges and can trigger a shift in the 18
19 balance of power. As a consequence, a crisis provides opportunities for ICT-based 19
20 innovation and can be a driving force for development of the role of ICTs in social 20
21 and political systems. Viewing crises as a fruitful time for ICT innovation suggests 21
22 that the development of the sociopolitical role of ICTs is cyclical in nature, 22
23 developing from one crisis to the next. This suggests that focusing on the analysis 23
24 of the process may give more answers than focusing on particular situational 24
25 functions. When a society develops the capacity to address challenges through 25
26 innovation, this could lead in the long term to significant political transformations. 26
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Chapter 12

Anonymous vs. Authoritarianism

Jessica L. Beyer

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10 In June 2009, as the Iranian state cracked down on the election demonstrators, 10
11 users around the world navigating to the popular file-sharing site The Pirate Bay 11
12 discovered that its normal pirate ship logo was green and labeled “The Persian 12
13 Bay.” The new green pirate ship had a banner across it that said, “Click here to 13
14 help Iran.” The link led to a forum focused on supporting the Iranian protesters 14
15 on a website hosted by a subset of Anonymous, Why We Protest. In the aftermath 15
16 of the 2009 Iranian elections, widely believed to be rigged in favor of the Iranian 16
17 regime, Iranian citizens began protesting the presidential election outcome. People 17
18 outside Iran watched horrified as Iranian protesters were beaten, shot, firehosed, 18
19 and violently taken into detention by the Basij (McDowall 2009), a plain clothed 19
20 paramilitary organization (Anderson 2009). Many of these Iranian protesters 20
21 were using the Internet to help coordinate their protests and spread information. 21
22 Social networking sites, such as Twitter, became central to coordination efforts as 22
23 protesters used such sites to organize flash mobs and spread information. Twitter 23
24 became important enough that in June 2009, the US government asked that the 24
25 site delay its regularly scheduled maintenance to stay online so Iranians could 25
26 continue to use it, a request that Twitter honored (Grossman 2009). Scholars have 26
27 also argued that while Twitter and the Internet did not cause anything to happen in 27
28 Iran in 2009 it certainly facilitated protest (Howard 2010). 28

29 The Iran-focused section of the Why We Protest Anonymous site has remained 29
30 online since 2009. On the website Anonymous users continue to offer how- 30
31 to guides outlining ways for people to remain anonymous online. The site also 31
32 provides instructions for citizens and activists outside Iran who want to create 32
33 proxies for in-country Iranian protesters. Among the resources the site offers are 33
34 practical protest advice, such as how to make do-it-yourself gas masks. The site 34
35 also includes a place where protestors can upload videos and pictures so the media 35
36 can access the material, hosts discussion areas where protestors can plan protests 36
37 and promote the democratization cause, posts links to other places trying to help 37
38 the Iranian protesters, and provides a forum to help protestors and others track 38
39 missing people. While the decision to become involved in helping the Iranian 39
40 protesters was debated, ultimately, the Why We Protest Anonymous participants 40
41 decided that their primary motivation was supporting freedom of information. The 41
42 Why We Protest Anonymous group is only one of the many Anonymous activist 42
43 groups and other online actors working to support the Iranian protesters. Support 43
44 for the Iranian protesters marked the beginning of Anonymous groups mobilizing 44

1 on behalf of democratization efforts in general in the Middle East and North 1
 2 Africa, as well as in other parts of the world. Anonymous has since supported 2
 3 democratization movements in the “Arab Spring” countries, using names such 3
 4 as “Operation Syria,” “Operation Egypt,” “Operation Bahrain,” and “Operation 4
 5 Algeria.” 5

6 Undoubtedly, there are limitations to the effects that any online group can have 6
 7 in authoritarian contexts. However, because authoritarian governments attempt to 7
 8 project the image of an omnipotent state (Wedeen 1999, Yurchak 2005) the actions 8
 9 of Anonymous groups and other hacktivists pose a challenge to this image and 9
 10 serve to highlight the limitations of state power. Although the power of hacktivist 10
 11 groups such as Anonymous is limited to the online world, hacktivists facilitate 11
 12 protest, communicate international solidarity with beleaguered dissidents, educate 12
 13 novices to the potential of digital media, and erode the perception of power that 13
 14 authoritarian states have worked hard to create. Thus, groups such as Anonymous 14
 15 are important new actors in the sphere of political protest because they loosen the 15
 16 stranglehold that most authoritarian governments maintain on the media and other 16
 17 information sources. 17

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20 **The Origins of Anonymous** 20

21

22 The birthplace of Anonymous is the image board system 4chan.org. 4chan.org’s 22
 23 board design allows users to post without user name or other personal identifiers, an 23
 24 attribute that most of the other board systems that the 4chan community has spread 24
 25 to share. Thus, the “author” of nearly all posts on 4chan.org and other related 25
 26 online spaces is “Anonymous”—which is the origin of the name “Anonymous.” 26

27 Before 2008 Anonymous’ action was generally focused on a nihilistically- 27
 28 defined pursuit of entertainment for entertainment’s sake (lulz) with the extreme 28
 29 anonymity of the community a double edged sword—fostering highly intelligent 29
 30 creativity at the same time as creating an environment testing boundaries of 30
 31 offensive and shocking speech and imagery (Bernstein et al. 2011, Beyer 2011, 31
 32 Knuttila 2012, Phillips 2012). Some Anonymous actions have had normatively 32
 33 good results, but tend to be framed as produced for the “lulz,” or potential 33
 34 entertainment value. However, in 2008, Anonymous activities shifted to mobilize 34
 35 explicitly for political causes. Anonymous groups’ first campaign was against the 35
 36 Church of Scientology, and most scholars and journalists define this as a major 36
 37 turning point for Anonymous (Beyer 2011, Coleman 2011, Norton 2012a, Olson 37
 38 2012). Anonymous began its action against the Church of Scientology using the 38
 39 same tactics it had used in actions framed as “lulzy” prior to becoming an explicitly 39
 40 political force. In particular, it used Distributed Denial of Service (DDoS) attacks, 40
 41 hacking Scientology computers, ordering large numbers of pizzas to Church of 41
 42 Scientology centers, and faxing reams of black paper to Church offices, among 42
 43 other tactics. 43

44

1 However, Anonymous members also began protesting offline outside Church of 1
2 Scientology offices across the world in highly organized and coordinated protests 2
3 that obeyed local laws, contained a cohesive message, used the iconic Guy Fawkes 3
4 mask popularized by the film *V for Vendetta*, and set forth an agenda framed 4
5 in explicitly political terms. Of the many striking attributes of the Scientology 5
6 protests, the most observable was the shift in using normative language to frame 6
7 the protests, rather than speaking of the protests as the pursuit of entertainment 7
8 for entertainment's sake. This does not mean that the idea of entertainment was 8
9 annexed, rather, that for the first time, there were equally strong voices arguing for 9
10 Anonymous to exercise its power to help citizens. 10

11 The Church of Scientology protests gave Anonymous a taste of its potential 11
12 and after 2008 Anonymous began engaging in other political action. As part of 12
13 the move into more explicitly political activities, the Anonymous community also 13
14 splintered into three loose affiliation groups (Beyer forthcoming, 2011). The first 14
15 to emerge argued Anonymous should refrain from using illegal tactics, such as 15
16 DDoS attacks, and focus on using only legal means to achieve its ends. This group 16
17 is represented on the Why We Protest website mentioned previously. Second, a 17
18 large subsection of the Anonymous community rejected the idea that Anonymous 18
19 should be involved with anything political and argued that Anonymous should 19
20 only engage in collective action for the sake of entertainment. The third group 20
21 argued that Anonymous should be engaged in political protest but that it had to 21
22 stay true to its roots and continue to use online tactics such as DDoS attacks. This 22
23 third group is the part of Anonymous that most frequently finds its way into the 23
24 press and it is this group that is usually responsible for high profile Anonymous 24
25 "hacktivist" actions. This part of Anonymous has continued to grow in numbers 25
26 over time, but it also continues to defy quantitative measurement or definition. 26

27 The name Anonymous is now given to participants in any number of online 27
28 communities as well as anyone who participates in a collective activity that is 28
29 defined as an Anonymous action (Beyer forthcoming, Coleman 2011, Norton 2012, 29
30 Phillips 2012). To further complicate the organizational definition of Anonymous, 30
31 their media materials often communicate that Anonymous is not an individual or a 31
32 group, but rather an idea whose "time has come." Some have asked whether anyone 32
33 who expresses support for, agrees with, or identifies herself with Anonymous or its 33
34 actions should be counted as one of Anonymous (Coleman 2012, AnonNews.org). 34
35 As the illustrations suggests, Anonymous does not have a formal membership, or a 35
36 leadership structure with clearly identifiable hierarchy, as well as no defined single 36
37 agenda. Anonymous actors contain programmers, experts, IRC server hosts, press 37
38 release writers, among other who engage in purposeful action. When Anonymous 38
39 mobilizes, it is because someone has suggested a target and enough members 39
40 have decided that the proposed action is important (and, often, entertaining). If 40
41 the proposal fails to gather enough support, then nothing happens. Norton (2012b) 41
42 framed Anonymous action in the following way: 42

43

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1 Anonymous is a classic ‘do-ocracy,’ to use a phrase that’s popular in the 1
 2 open source movement. As the term implies, that means rule by sheer doing: 2
 3 Individuals propose actions, others join in (or not), and then the Anonymous 3
 4 flag is flown over the result. There’s no one to grant permission, no promise of 4
 5 praise or credit, so every action must be its own reward. Anonymous action is 5
 6 facilitated by an array of online tools such as Internet Relay Chat (IRC), posting 6
 7 boards, Twitter, wikis, blogs, websites, and other software. 7

8
 9 For any given Anonymous action there are likely Anonymous members who 9
 10 do not agree with that action, and there are high levels of disagreement within 10
 11 the community about partisan politics. For example, during the 2011 protests in 11
 12 Wisconsin against the Governor’s efforts to remove public employee collective 12
 13 bargaining rights, some Anonymous members proposed that Anonymous mobilize 13
 14 on behalf of the protesters. In response to the suggestion, other members argued 14
 15 about whether Anonymous should involve itself in partisan politics when there 15
 16 was no way that all Anonymous members could agree on a political platform. In 16
 17 contrast, Anonymous members do tend to share a belief in freedom of information 17
 18 (Beyer forthcoming) and a belief in civil liberties in general. This shared belief 18
 19 is one of the reasons Anonymous has repeatedly challenged authoritarian 19
 20 governments all over the world, including working to support protesters across the 20
 21 Middle East and North Africa during the Arab Spring. 21

22 23 24 **Anonymous and the Arab Spring** 24

25
 26 Anonymous actions in Iran, Syria, Tunisia, Egypt, and Bahrain offer an example 26
 27 of how a transnational network of Internet-based activists do challenge state 27
 28 power. Anonymous not only provides new conduits for information transfer in 28
 29 situations where states have attempted to completely close society off from the 29
 30 outside world, but it challenges the image of an omnipotent state. 30

31 Syria serves as an entry example of the challenge Anonymous poses to 31
 32 authoritarian regimes. In Syria, Hafiz al-Assad’s state committed considerable 32
 33 resources to build a cult of Assad—a cult in which Assad knew “all things about 33
 34 all issues” (Wedeen 1999: 1). Following Hafiz al-Assad’s death, Bashar al- 34
 35 Assad’s government has continued to project the image of an all-powerful and 35
 36 unchallengeable state, responding to the increase in criticism of the regime that 36
 37 followed the so-called “Damascus Spring” with a severe crackdown on critics and 37
 38 others whom the regime perceived to be a threat (England 2008). As the Syrian 38
 39 government has waged war against its unarmed population and Syria has descended 39
 40 into civil war, Assad’s government has continued to shape discourse around the 40
 41 violence. Externally, he has hired public relations firms to help shape his image 41
 42 (Carter and Chozick 2012). Internally, he has claimed that reporting on Syria is 42
 43 false, and has accused the United States of fostering the conflict (Baetz 2012) and 43
 44 claimed that the civil war is being perpetuated by terrorists (MacFarquhar 2012). 44

1 Tied to these efforts to shape discourses about and inside Syria has been an 1
2 ongoing effort to surveil and curtail the political uses of information technology. 2
3 Reporters without Borders (2012) reports that Syria has become one of the most 3
4 dangerous places on the planet for journalists. The restrictions on information 4
5 transfer have become so tight that activists must use Lebanese and Turkish proxy 5
6 networks to upload information, moving close to borders to access international 6
7 Internet cables. Much of the sensitive political information leaves the country 7
8 using “sneaker networks” of people smuggling USB drives from person to person 8
9 until contents can be safely uploaded online (Ulbricht 2012). Information and 9
10 images are then shared with major news sources, such as the *New York Times*, 10
11 as well as organizing online archives of the information for global distribution 11
12 (Goodman 2012). In Syria, Internet cafés have been the site of state surveillance 12
13 as owners have been compelled to log comments people posted online since 2007 13
14 (Steavenson 2012). Overall, the media environment in Syria is highly restricted 14
15 and dangerous for anyone attempting to use any technology to show the world 15
16 what is happening inside the country. 16

17 The Syrian government is also supported in its efforts to create a monopoly 17
18 on information by a range of actors, including the Syrian Electronic Army (SEA). 18
19 The SEA is a group of pro-government hackers that has been active online using 19
20 many of the same tactics that Anonymous members use, including DDoS attacks 20
21 as well as hacking websites and replacing the content (Fisher and Keller 2011). 21
22 SEA also engages in “protests” on the Facebook pages of groups that it views 22
23 as anti-Syrian. In two well publicized instances, the SEA hacked a Reuters- 23
24 affiliated Twitter account (Fox 2012) and Al Jazeera’s website in response to their 24
25 reporting on the Syrian conflict. The SEA has targeted Anonymous websites, and 25
26 Anonymous has also attacked the SEA website in response (Pavel 2012). Despite 26
27 SEA’s public statements that it is not affiliated with the Syrian government, in June 27
28 2011 Assad referred to the group in a speech saying, “There is the electronic army, 28
29 which has been a real army in virtual reality” (Fisher and Keller 2011). 29

30 In response to the Syrian government and the SEA, Anonymous and other 30
31 transnational Internet-based activists have actively challenged the state’s attempt 31
32 to maintain control over information. On June 3, 2011, the Syrian government 32
33 “turned off” the Internet in Syria in response to the unrest in the country 33
34 (Reporters without Borders 2012). Following this major initiative, the only 34
35 Internet connections remaining were those used by the Syrian government. In 35
36 response, Anonymous pledged to engage in attacks on Syrian government sites, in 36
37 particular, Syrian embassy sites, announcing (AnonOpsSyria 2011): 37

38
39 This is a message from Anonymous. It has come to our attention that the tyrant 39
40 and human rights abuser Bashar Assad the so called president or dictator of Syria 40
41 has shut down the internet within Syria, thus further isolating and terrorizing the 41
42 freedom loving people of Syria who have already suffered so much from this 42
43 evil regime. So today we will begin a program of removing from the internet the 43
44 web sites of the Syrian Embassies abroad. 44

1 In the following weeks, Anonymous also engaged in other attacks on the Syrian 1
 2 government's online infrastructure, including the Ministry of Defense where 2
 3 Anonymous posted, among other things, one of the iconic Anonymous "logos," 3
 4 photographs of tortured protestors and the following message in English and 4
 5 Arabic (syrianona 2011): 5

6
 7 To the Syrian people: The world stands with you against the brutal regime of 7
 8 Bashar Al-Assad. Know that time and history are on your side—tyrants use 8
 9 violence because they have nothing else, and the more violent they are, the more 9
 10 fragile they become. We salute your determination to be non-violent in the face 10
 11 of the regime's brutality, and admire your willingness to pursue justice, not mere 11
 12 revenge. All tyrants will fall, and thanks to your bravery Bashar Al-Assad is 12
 13 next. 13

14
 15 To the Syrian military: You are responsible for protecting the Syrian people, and 15
 16 anyone who orders you to kill women, children, and the elderly deserves to be 16
 17 tried for treason. No outside enemy could do as much damage to Syria as Bashar 17
 18 Al-Assad has done. Defend your country—rise up against the regime! 18

19
 20 Following this foray, in September 2011, Anonymous again hacked multiple 20
 21 Syrian government websites, this time including official "city" websites, replacing 21
 22 content with links to guides on how to remain anonymous online; information 22
 23 about the city, such as the number of people killed by the government in the city; 23
 24 and videos about government action against protestors (Pavel 2011). In early 24
 25 2012, Anonymous, in collaboration with LulzSec and the Peoples Liberation 25
 26 Front, hacked into a mail server used by the Syrian Ministry of Presidential Affairs 26
 27 and released hundreds of emails. The initial email release in February 2012 was 27
 28 considered embarrassing to the regime and included emails discussing strategies 28
 29 to manipulate US public opinion, emails showing Assad had received advice from 29
 30 Iran, and texts revealing Assad was using a third party address to buy music on 30
 31 iTunes in spite of sanctions (Booth, Mahmood and Hardy 2012). In July 2012, 31
 32 WikiLeaks stated that it was working with news agencies¹ to release another block 32
 33 of Anonymous-obtained Syrian files—more than two million email messages 33
 34 (WikiLeaks 2012). Initial analysis of these email messages revealed that Western 34
 35 firms provided communications equipment to the Syrian regime (Satter 2012). 35

36 Other Internet-based activist groups are also working on behalf of the Syrian 36
 37 people. For example, Telecomix, a collective of hackers similar to Anonymous 37
 38 operating in Europe, revealed that the Syrian regime was using a BlueCoat (a 38
 39 US software company), for censorship and surveillance of the Internet (KheOps 39
 40 2011)—something the US State Department has since investigated (Horowitz 40
 41 2012). In mid-August 2011, Telecomix hacked the Syrian Internet. Users logging 41

42
 43 ¹ The news sources include *Al-Akhbar*, *Al-Masry Al-Youm*, *L'espresso*, *Norddeutscher* 43
 44 *Rundfunk*, *OWNI*, and *Público*. 44

1 in and attempting to visit websites such as Google, instead, saw a page that stated, 1
2 “This is a deliberate, temporary Internet breakdown. Please read carefully and 2
3 spread the following message ... Your Internet activity is monitored” (Greenberg 3
4 2011). The page then directed users to a new page that included information about 4
5 strategies and tools to remain anonymous online (Greenberg 2011). It also offered 5
6 advice, technical information, and strategy via IRC channels to interested activists 6
7 around the world. Telecomix has engaged in types of activism similar to those 7
8 Anonymous members use, although it began as an explicitly political project and 8
9 does not affiliate itself with Anonymous (Greenberg 2011, Orange 2012). 9

10 Anonymous participants’ action on behalf of Syrian protesters was just one of 10
11 many organized Anonymous projects on behalf of citizens in authoritarian states. 11
12 For example, Anonymous has also taken action against the Tunisian government. 12
13 In a press release uploaded on January 5, 2011 and viewed over 43,000 times as of 13
14 August 30, 2012, Anonymous announced (Anonymousworldwar3 2011a): 14

15
16 To the Tunisian government: Attacks on the freedom of speech and information 16
17 of your citizens will not be tolerated. Any organization involved in censorship 17
18 will be targeted. Attacks will not cease until the Tunisian government hears 18
19 the claim of freedom from its own people. It is in the hands of the Tunisian 19
20 government to bring this to a resolution. 20
21

22 In response to the Tunisian state’s attempts to stop protests and restrict the 22
23 movement of information in Tunisia, Anonymous attacked Tunisian government 23
24 websites using DDoS attacks and hacking, as well as helped to give people in 24
25 Tunisia a conduit to move information out of country (Norton 2012a, Ryan 2011). 25
26 As Anonymous attacked government websites, it replaced the pages with the Pirate 26
27 Bay pirate ship image (a reference to Operation Payback, the umbrella campaign 27
28 under which Operation Tunisia fell) and a message from Anonymous that stated 28
29 (Derrick 2011): 29

30
31 Anonymous has heard the cry for freedom from the Tunisian people. Anonymous 31
32 is willing to help the Tunisian people in this fight against oppression. This is a 32
33 warning to the Tunisian Government: violation of the freedom of speech and 33
34 information of its citizens will not be tolerated. Cyber Attacks will persist until 34
35 the Tunisian Government respects all Tunisian citizens’ right to Free Speech and 35
36 Information and ceases the censoring of the internet. 36
37

38 Anonymous also distributed tools to help Tunisian activists distribute 38
39 information privately after discovering that the Tunisian government was 39
40 harvesting usernames and passwords from online forums being used to coordinate 40
41 protest (Ragan 2011). Anonymous released what an Anonymous member described 41
42 to *Wired*’s Quinn Norton as a “care package” (Norton 2012a). This included a 42
43 browser add-on allowing Tunisians to access Google’s Blogger, Facebook, Gmail, 43
44 Yahoo, and Twitter safely (Ragan 2011). It also included a technical manuals, 44

1 like *How to Bypass Internet Censorship*, providing instructions for how to build 1
2 homemade gas masks, information about how to use anonymizer tools like Tor, 2
3 lists of links to proxies, and more (Ragan 2011). 3

4 Along with other hacktivist groups such as Telecomix, Anonymous was also 4
5 active in supporting protesters in Egypt, using similar tactics field-tested in Tunisia 5
6 (Wagenseil 2011). In line with standard Anonymous action, it began its work in 6
7 Egypt with a press release, viewed by over 90,000 people as of August 30, 2012. 7
8 The press release (mmxanonymous 2011) stated that Anonymous would be acting 8
9 on behalf of the Egyptian people and continued with coordinated action on behalf 9
10 of the Egyptian people similar to that in Tunisia (Somaiya 2011). Anonymous has 10
11 also engaged in action in other Arab Spring countries, such as a smaller mobilization 11
12 against the Algerian regime (Cushing 2011, Anonymousworldwar3 2011b), and is 12
13 currently engaged in ongoing efforts to support protesters in Bahrain's violent 13
14 crackdown. As part of this effort, Anonymous members have used DDoS attacks 14
15 on government sites, brought down Bahrain's Formula One website, and engaged 15
16 in other action to support Bahraini protestors (Mezzofiore 2012). 16

17 Despite Anonymous' successful innovations in supporting citizens in repressive 17
18 political environments, there are limits to its political impacts. In the past, some— 18
19 including Anonymous participants—have facetiously called Anonymous the 19
20 “final boss of the Internet” (e.g. JC 2008). It is true that Anonymous exercises 20
21 a certain level of cultural influence and power online. However, in its support of 21
22 protesters in authoritarian contexts, Anonymous is limited by the very instrument 22
23 that grants it power, as the Egyptian government illuminated in June 2011 when it 23
24 “turned off” the Internet (Vanhemert 2011). Then, it is the citizens on the ground 24
25 who were agents of change—and, as the history of revolution show, the Internet 25
26 is not a monocausal condition for political change, but rather a mix of conditions. 26
27 Anonymous members are aware of their limits to bring about political change, and 27
28 many press releases state explicitly that they stand behind those who are the ‘real’ 28
29 change agents. In a press release during Operation Tunisia, Anonymous members 29
30 stated: “Anonymous has heard the claim for freedom of the Tunisian people. 30
31 Anonymous is willing to help the Tunisian people in this fight against oppression.” 31

32 Although there are limitations to the change that groups such as Anonymous 32
33 can bring about in authoritarian regimes, overall, the net effect of information 33
34 technology in this area is one of a challenge to state authority. As stated previously, 34
35 authoritarian states combine their on-the-ground policies with a projected image 35
36 of themselves as all-powerful, all-knowing, and impossible to challenge (Wedeen 36
37 1999, Yurchak 2005). However, every time Anonymous facilitated the movement 37
38 of information from within an authoritarian state and into the hands of the global 38
39 media, it publicly challenged the state's monopoly on the political narrative. Even 39
40 more, when Anonymous members successfully took down government websites, 40
41 and defaced official government websites with anti-government content, these acts 41
42 highlighted the new limits of state power today. 42

43 As Anonymous continues to pose a challenge to state authority, it is also a 43
44 growing movement that can and will adapt to learned lessons and new challenges. 44

1 Anonymous provides a conduit for individuals everywhere who want to work to 1
2 support democratization efforts and activists. For transnational Internet-based 2
3 activist groups, such as Anonymous, information technology has allowed for the 3
4 curation of a world-wide “audience” to become directly involved in challenging 4
5 restrictive regimes’ information management practices. Anonymous’ actions 5
6 provide an opportunity structure that channels and empowers individuals who 6
7 want to be directly involved in helping protestors in countries with repressive 7
8 governments. Thus, as the Anonymous network or groups with similar aims 8
9 continue to grow, the influence of transnational Internet-based activists poses a 9
10 new set of actors and activities that erode the power of recalcitrant rulers. 10

11 It is also important to note that although this chapter focuses on the actions 11
12 Anonymous has taken against authoritarian governments, Anonymous regularly 12
13 uses the same tactics and rhetoric against democratic governments. For example, 13
14 at 8 a.m. eastern Australian time on February 10, 2010, several Australian 14
15 government sites crashed due to a DDoS attack, followed by a “storm” of 15
16 pornography-related emails, faxes, and prank cell phone calls to government 16
17 officials. The pornography was specifically chosen to match content that would 17
18 be banned under a proposed Australian government Internet filtering plan. At the 18
19 peak of the attack, the Parliament site received 7.5 million hits per second, rather 19
20 than the normal hundreds per second. Observers estimated that about 1,000 people 20
21 around the world participated in the attacks, which were carefully coordinated to 21
22 occur at the same time to stress the operational limits of the system, even though the 22
23 attackers were located globally in different time zones (AFP 2010). The attackers 23
24 also sent emails to media outlining the reasons for the attacks on the government 24
25 (Cheng 2010). One such statement noted the campaign would last “as long as 25
26 the individuals that make up Anonymous decide that action needs to be taken to 26
27 protect the freedom of the internet” (AFP 2010). This action was one of many 27
28 that targeted the Australian government over the government’s efforts to filter 28
29 the Internet. The action against the Australian government was similar in tactics 29
30 to the Anonymous action against the US government and major corporations on 30
31 behalf of WikiLeaks in late 2011. The Australian government has responded by 31
32 arresting Australian participants. Participants in other countries were not arrested, 32
33 as they were living outside the jurisdiction of the Australian state. The examples 33
34 of Anonymous members’ actions against democratic regimes are as numerous as 34
35 examples where these activists worked to challenge authoritarian power. Thus, it 35
36 is important to recognize that Anonymous and other transnational Internet-based 36
37 networks are using information technology to challenge and undermine the power 37
38 of authoritarian states; but they are also using the same strategies, tools, and people 38
39 to challenge any state, in the name of Internet freedom. 39

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Digital media and online social networking applications have changed the way in which dissent is organized, with social movement leaders using online applications and digital content systems to organize collective action, activate local protest groups, network with international social movements, and share their political perspectives. In the past, authoritarian regimes could control broadcast media in times of political crisis by destroying newspaper supplies, seizing radio and television stations, and blocking phone calls. It is much more difficult to control media in the digital age though there have certainly been occasions when states have successfully shut down their digital networks.

What causes state powers to block internet access, disable digital networks or even shut off internet access? How is it done, what is the impact, and how do dissidents attempt to fight back?

In this timely and accessible volume a collection of high profile, international scholars answer these key questions using cases from Israel, Iran, Russia, Morocco, Vietnam, and Kuwait, and assess the political economy of the actors, institutions, and regimes involved and affected by the state-management and control of digital networks.

Interest in how governments use, manipulate, or even shut down the internet in the service of state power has been growing at a fever pitch. This collection provides an insightful framework for understanding these dynamics as well as an impressive array of individual chapters that will undoubtedly become an essential scholarly resource in this area for years to come.

Michael Xenos, University of Wisconsin-Madison, USA

When Time magazine named 'You' as its person of the year in 2006, few could foresee how swiftly both authoritarian and democratic states would learn to control political participation on the internet. This landmark comparative study brings to light the tactics states are using to protect their authority and manage dissent. Amid huge claims about the power of technology to drive political change, this volume provides concrete analysis across a range of national media ecologies and hundreds of events. Paradoxically, by bringing us back down to earth the authors help us understand better how our voices might be heard and change realized.

Ben O'Loughlin, Royal Holloway University of London, UK

Muzammil M. Hussain is Assistant Professor of Global Media Studies at the University of Michigan's Department of Communication Studies, and Faculty Associate at the Institute for Social Research's Center for Political Studies. He tweets from @m_m_hussain.

Philip N. Howard is a professor in the School of Public Policy at Central European University. His writings appear at <http://philhoward.org> and he tweets from @pnhoward.

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