

Notes

Chapter 1

1. In this work, I use “rules” and “institutions” interchangeably. Explicit rules may also be referred to as “regulations,” while implicit rules may be termed “norms.” Moreover, the expression “standards” refers to technical rules that govern the production of goods and services (for instance, rules that govern how the various web browsers recognize and display a webpage).
2. In that regard, I follow the same route as Franda (2001) and Cogburn (2005, 57).
3. Bradley et al. (1999, 30) refer to this complex accountability thread as “cascading agency problem.”

Chapter 2

1. “International settlements regime” is a technical term that telecom experts, states, and carriers used to describe the specific procedure by which carriers settled their accounts with each other. The ITU was in charge of overseeing the settlements regime, which formed part of the telecom regime.
2. The economic paradigm governing telecom under Fordism was the “natural monopoly” paradigm. See Mitchell and Vogelsang (1991).
3. Terminal equipment includes devices that end users attach to the phone network. Examples are telephone sets, fax machines, and computer modems.
4. Value-added services were services that the network itself could provide beyond simple circuit-switched telephone service. Examples are call waiting and voice-mail. Technological developments have made it possible for terminal equipment to take over many of these functions.
5. It is important to note that the EC’s legislative branches only wanted to open European telecom to European competitors. U.S. carriers had to wait for the GATS negotiations on basic telecom to get access to the European market.
6. The Commission issued its first telecom-related report in 1984. See European Commission (1984).

7. It specifically cited articles 37 (1), 86, and 90 (1) and (2).
8. Knowledge-intensive services are service activities that, for their completion, require a considerable investment in technology. According to the OECD (2006), typical examples are research and development, management consulting, legal services, accounting, finance, and marketing-related service activities (7).
9. “Body shopping” means that service workers travel in person to those locations that are to be serviced.
10. According to the World Trade Organization, there is no standard international definition for “basic telecommunications.” At the outset of the WTO negotiations, participants agreed to set aside the different definitions they used domestically, and negotiate all telecommunications services except those considered to be “value-added” or “enhanced” (WTO 1996).

Chapter 3

1. These were the University of California at Los Angeles, Stanford, the University of California at Santa Barbara, and the University of Utah.
2. It also added a node at RAND (Zakon 2002).
3. All RFCs can be found at <http://tools.ietf.org/html/>.
4. Unlike the Internet BITNET did not transmit messages in real time, as segments of the network were only in service during certain periods. Instead, every node on the path toward the destination stored the messages until the next segment of the route became available.
5. That TCP/IP gained such currency was not only due to NSF support, but also to its flexibility and reliability. Unlike other protocols, such as the older network control protocol and the OSI protocol advanced in Europe, the TCP/IP protocol suite enabled the internetworking approach, which “enables system designers and implementers to provide network users with a single, highly available, highly reliable, easily enlarged, easily modifiable, virtual network” (Martillo 1989).
6. All RFCs can be found at <http://tools.ietf.org/html/>.
7. There had been a few commercial networks as early as the 1950s. SABRE, for instance, came into being in 1957 as a cooperative effort between IBM and American Airlines. It was a real-time airlines reservations system, which sent messages, processed wait-lists, and prepared boarding passes (Evans 1967).
8. For an overview of the various networks, see Quarterman and Hoskins (1986).
9. Individuals interested in computing could afford to purchase these small machines, use them for computation, and make them communicate remotely. Hobbyists created networks to “electronic bulletin boards” and by 1983 a network among personal computers running Microsoft’s MS-DOS operating system emerged, called FidoNet, which extended the store-and-forward model of BITNET beyond research institutions (Wimmer 1997, 73; Zakon 2002).

10. Like the American BITNET, EARN was a store-and-forward network, running the IBM Network Job Entry protocol.
11. *The Economist*, October 16, 1993, 101.
12. Information technologies were computers that, on a stand-alone basis, turned data into usable information. Communication technologies were network technologies such as the telecom network or the Internet. Thanks to the convergence that has taken place since the early 1990s, information and communication technologies are now frequently referred to as “IT,” as they are in this book.
13. In 2004 the fee for full membership was fifty-seven thousand dollars.
14. See Krechmer (2000) for a discussion of the pitfalls such market-driven standardization presents for small companies that are not industry leaders.
15. In November 2009, the organization adopted the new name “Global Business Dialogue on e-Society.”
16. IANA’s leader Jon Postel had been in charge of numbering ARPANET hosts ever since the 1970s. See RFC 433.

Chapter 4

1. See chapter one.
2. See also Franda (2001) and Cogburn (2005).
3. Those services that required a heavy investment in technology were easily digitized and sold over the Internet and created largely in core economies.
4. Whether or not the object exercises its power thus depends on external, contingent events.
5. For details, see the World Bank’s operational policy 4.50 in chapter ten.
6. For details on infoDev, see chapter ten.
7. It is important to note that each social actor fills not only one role, but several. For example, my acquaintance Erin plays the following roles simultaneously: student, woman, Irish American. Similarly, the Egyptian state plays the following roles: “state presiding over a Muslim country,” “state presiding over a world heritage site,” “Southern Mediterranean partner of the EU.”
8. At the same time it is entirely possible that certain enforcement mechanisms are not actualized in the specific case we studied. Studying a number of cases may therefore yield additional enforcement mechanisms. Such additional study is especially fruitful if the new cases occupy different positions in the social structure. For example, the European Union might pursue a regional policy for Latin America that differs in a number of ways from the Euro-Mediterranean Partnership. Consequently, the states in Latin America will experience different enforcement mechanisms than the states located in the Mediterranean.

Chapter 5

1. Parastatals are state-owned enterprises.

Chapter 6

1. “Preferential trade” refers to trade where Egypt had access conditions to the EU market that were better than the access conditions that non-EU countries enjoyed under the minimum standards for openness set by the General Agreement of Tariffs and Trade.
2. In May 1991 the government concluded an eighteen-month stand-by agreement with the IMF for 278 special drawing rights (\$372 million) to support the economic reform and structural adjustment program of the World Bank (Weiss and Wurzel 1998, 24).
3. Moreover, most of EU exports into the Southern Mediterranean did not occur under preferential terms but under regular WTO most favored nations terms.
4. The U.S.-Egypt’s Presidents’ Council represents both U.S. and Egyptian private sector interests and is therefore not a truly Egyptian organization. However, for the purposes of this book, the Council qualifies as an Egyptian civil society organization because it provided a political venue to Egyptian private sector interests.
5. The Gore-Mubarak Partnership was officially named the “U.S.-Egypt Partnership for Growth and Development.”
6. This section on labor-state relations is based on Pripstein Posusney (1997, 220–243).
7. In 1994, the town Mallawi in the governorate of Minya in Upper Egypt was subjected to a twelve-hour dusk-to-dawn curfew. It was kept in place for two years (EIU 1996/2, 12).
8. For the difference between inclusionary and exclusionary authoritarianism, see O’Donnell (1973, 53–114).

Chapter 7

1. The only other entities that controlled telecom infrastructure for their own specialized needs were the Suez Canal Authority, defense service, railways, broadcasting and television, and civil aviation authorities (World Bank 1981, 1).
2. Expressed demand is the sum of direct exchange line and the waiting list.
3. For more information about the organizational culture of paternalism see, for instance, Palmer et al. (1988).
4. Under monopoly conditions these might be companies operating under license from ARENTO.
5. In 1996, the Ministry had funneled £E 2.8 billion of ARENTO’s profits into subsidizing development of the Cairo metro (EIU 1997/2, 31).
6. It is article 52. Additional examples of the way in which the EU affected the decision-making environment of the Egyptian state in the area of telecom and IT are conferences such as the Euro-Med Net 98 Conference in Cyprus. This conference launched a survey of the Mediterranean information societies. In addition, the EU funded a number of regional activities in the areas of telecom and IT. All this happened in the context of the Euro-Mediterranean Partnership

(ENCIP 2003; European Commission, Information Society Project Office n.d.; NECTAR 1998).

7. For a fuller discussion of the conference, see chapter six.
8. Like the first operator, this operator would use the GSM standard.
9. Law 19/1998.
10. The original stockholders of ECMS protested. They had purchased their stock in the belief that the company already owned a license, and they did not want to see their dividends vanish under the impact of the license fee. The government's action caught Misrfone by surprise as well. When it had submitted the bid for its cellular license, it had assumed that it would compete against the inefficient state operator, not against a well-funded consortium with international expertise. In the end, Misrfone shrugged the blow off, because the Egyptian market was large enough for two competitors.
11. Over two-thirds of these had been put in place by Menatel (6,793) and Nile Telecom (4,288) (Arab Advisors 2002a, 36).

Chapter 8

1. For example, Huntington (1968).
2. By that time UNDP had supported computerization in countries such as India, to support the institutional capacity of public administration.
3. This performance-driven human resource policy may have been an arrangement with Atef Ebeid, whose position as minister of administrative development put him in charge of government employment. Very likely, IDSC's performance-oriented approach to human resource management entailed not only temporary contracts, but also a pay scale that offered much better monetary incentives than those applied to the rest of the state bureaucracy.
4. This sum excludes costs borne by the Ministry of Cabinet Affairs.
5. See IDSC, TDP (1994).
6. This sum was for both centers.
7. It was created under the name of Redsoft.
8. To mention only one example, RITSEC (2001) indicated that it had implemented the governorates decision support project (20).
9. Bill Gates quoted in RITSEC (1999b).

Chapter 9

1. Another name for this subsidiary was Wataneyya.
2. Masreyya is now called Xceed.
3. In June 2001, the workforce numbered fifty-three thousand employees.
4. In addition the creation of subsidiaries was to make it easier to attract foreign investors (Danish 2002).
5. For example, Arab Advisors (2002b, 9).
6. In 1999 ISE ceased to convene, but the e-commerce committee continued its activities.

Chapter 10

1. The figure 5.2 billion denotes the size of the world population in 1990.
2. Even if a country was fully inside the set, it may not have experienced the enforcement mechanism, because it may have violated a necessary condition for World Bank investment. One such condition is relative political stability. If a country is torn by civil war, the Bank will not invest in it, no matter how poor or indebted it is.
3. These guarantees allowed states to raise additional money on the international financial market.
4. Charlene Barshefsky's statement to the High-level Symposium on Trade and Development at the World Trade Organization on March 17, 1999. Quoted in U.S. Embassy Tel Aviv (1999).
5. Examples are USAID (1999) on Bulgaria, and SETA (2000) on the Czech Republic.
6. Charlene Barshefsky's statement to the High-level Symposium on Trade and Development at the World Trade Organization on March 17, 1999. Quoted in USIS (1999).
7. Charlene Barshefsky's statement to the High-level Symposium on Trade and Development at the World Trade Organization on March 17, 1999. Quoted in *ibid.*

Chapter 11

1. One of the conservative estimates comes from the *Associated Press*, which in 2009 estimated the number of Iraqi casualties to be at 110,600 (Gamel 2009).

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