

## Chapter 2

# Health systems and institutions

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### 2.1 Introduction

As outlined in Chapter 1, richer understanding of the dynamics of health sectors is necessary in thinking through how to strengthen the health system and enable performance improvements in health sectors [1,2]. To support such understanding, this chapter adopts an institutional lens in considering both the nature of health systems and ways of strengthening them.

Building on Chapter 1, five widely known health system conceptual frameworks are reviewed first. The review highlights the different types of agents, organizations, and organizational arrangements that are embedded within each framework, and seeks to identify the nature of relationships among actors, and the institutions each identifies or implies as underpinning these relationships. Second, recent thinking on health system governance—a central, but less considered, function of every health system that is particularly relevant to health system strengthening—is presented. Third, three complementary bodies of theory (organizational and policy implementation theory, and systems thinking) that draw on institutional perspectives in considering organizational functioning and change, are briefly presented and applied in critique of the health system frameworks. The critique highlights the dominance of a mechanical perspective of organizational functioning within existing frameworks, and a primarily command and control approach to health system strengthening. Finally, two alternative approaches to supporting change within health systems, both of which acknowledge complexity and seek institutional change, are introduced: soft systems methodology and strengthening trust-based relationships.

The concept of an institution is central to this discussion. Where organizations are the social settings within which activities take place, institutions are the rules, laws, norms, and customs that shape behaviour in those settings, generating patterned or shared behaviour over time among groups of actors involved in specified relationships with each other [3]. It has been argued that such institutions have three main components: the regulative pillar of rules that constrain and regulate behaviour (commonly understood to include

1 economic incentives); the normative pillar of norms and values that confer  
 2 both responsibilities that constrain social behaviour, and rights that enable  
 3 social action; and the cultural-cognitive pillar of shared routines, conceptions,  
 4 and frames through which meaning is made [4]. Although institutions are  
 5 fairly stable social structures they can and do change over time because there is  
 6 a two-way process of influence: individual preferences and values are both  
 7 shaped by, and shape, institutions [3].

## 8 2.2 Conceptualizing health 'systems'

9 Five conceptual frameworks are discussed here, allowing examination of differ-  
 10 ent and changing understandings of the nature of a health system, thus comple-  
 11 menting Chapter 1. In order of chronological development, these are: Roemer's  
 12 1991 outline framework [5]; the World Health Organization's (WHO') 1993  
 13 health care financing framework [6]; Frenk's 1995 relational framework [7];  
 14 WHO's 2007 version of the building block framework [1]; and Roberts et al.'s  
 15 2008 'control knobs' framework [8].

### 16 2.2.1 A focus on health care or on health?

17 Of these five frameworks, three focus squarely on health care and health serv-  
 18 ices [5–6,8]. Only two encompass activities relevant to promoting, restoring,  
 19 or maintaining health (but see also [9], discussed in Chapter 10). The Frenk  
 20 framework [7], for example, includes other sectors and their production of  
 21 services with health effects. It also gives the population, through community  
 22 participation, a role in and influence over health care organizations, as well as  
 23 recognizing its role in providing people, money, and data for the overall sys-  
 24 tem. The broader focus of the WHO building block (WHO BB) framework [1]  
 25 is more hidden. However, it describes the health *information* system as  
 26 encompassing the collection and use of information on 'health determinants,  
 27 health systems performance and health status', and notes that leadership/gov-  
 28 ernance includes concern for the health-promoting actions of other govern-  
 29 ment sectors.

### 30 2.2.2 An inventory or relational approach?

31 Both the WHO BB framework [1] and Roemer [5] appear to adopt an inven-  
 32 tory approach [7] to understanding a health system: that is, they identify a set  
 33 of core functions but do not specify the health system actors engaged in these  
 34 functions nor the relationships among them. Figure 2.1, thus, gives no sense of  
 35 the interactions among health system building blocks, nor how they impact on  
 36 performance outcomes. Similarly, although Figure 2.2 signals interactions

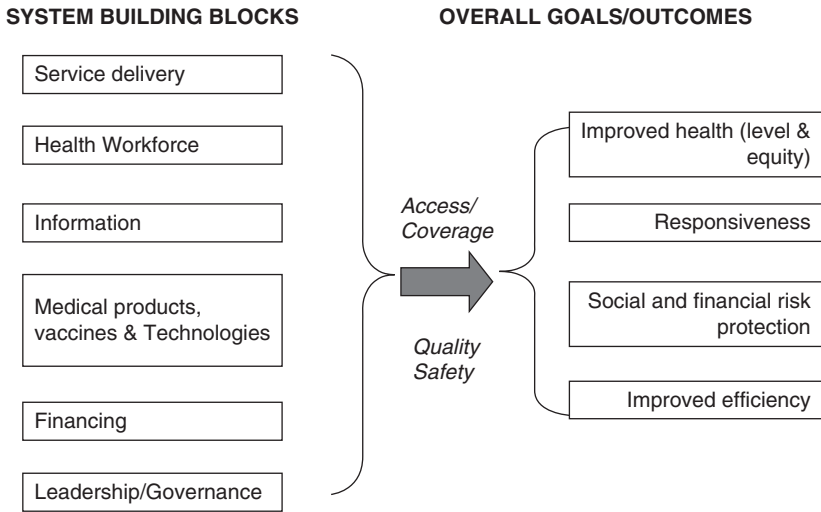


Fig. 2.1 WHO BB [1] framework.

1 among a set of five health system functions that result in service delivery, it  
 2 does not clarify their basis or nature: ‘These types of approaches are helpful for  
 3 describing health systems... However, the categorizations are less helpful for  
 4 understanding how well health systems perform. This would require more  
 5 detailed subcategories and greater elaboration of the relationships within each  
 6 category but particularly between categories’ [10, pp.514–15].  
 7 Nonetheless, the report presenting the WHO BB framework notes that  
 8 ‘A health system, like any other system, is a set of inter-connected parts that  
 9 must function together to be effective. Changes in one area have repercussions

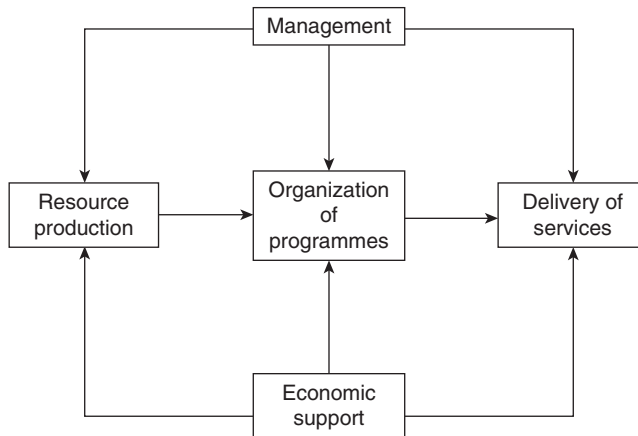
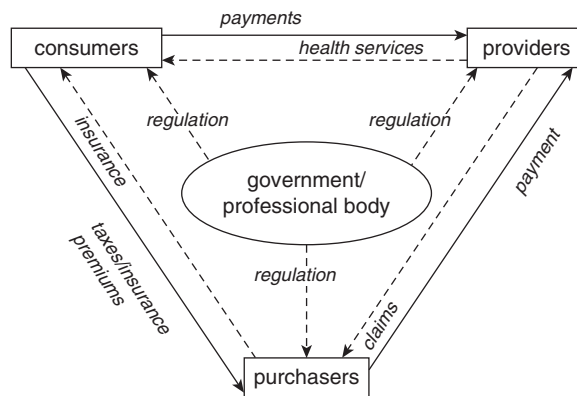


Fig. 2.2 Roemer [5] framework.



**Fig. 2.3** WHO HCF [6] framework.

1 elsewhere. Improvements in one area cannot be achieved without contribu-  
 2 tions from the others. Interaction between building blocks is essential for  
 3 achieving better health outcomes' [1, p.4]. This relational nature of health  
 4 systems is more clearly represented in the next two frameworks discussed.

5 Four functions required in any health system (regulation, financing, resource  
 6 allocation and service provision) are identified in the WHO health care financ-  
 7 ing (HCF) framework [6] (Figure 2.3), as well as four agents and the relation-  
 8 ships among them that underpin the functions. Although not discussed in any  
 9 detail, the figure also highlights the key institutions that shape these relation-  
 10 ships: regulatory authority (based on rules and involving sanctions or eco-  
 11 nomic incentives); payments by patients/population (economic incentives);  
 12 and provider claims on financing agents (underpinned by rules) (Box 2.1). In  
 13 a further specification of the framework, government's regulatory role is noted  
 14 to include structuring the system in line with social consensus on the ethical  
 15 principles (e.g. ability to pay or social rights) on which it is founded [10].

16 A more complex set of dynamics among elements of the health system, and  
 17 between them and the external environment, are represented in Frenk's frame-  
 18 work [7] (Figure 2.4).

19 In illuminating this complexity, the framework highlights, first, the various  
 20 roles played by the state (the collective mediator), noting that 'there are many  
 21 public agencies that are not part of the health system per se, but that constitute  
 22 a key element of its organizational environment. This is the case of the legisla-  
 23 tive and judicial branches of government, as well as the executive officers deal-  
 24 ing with public budgets, taxation and law enforcement. We may conclude,  
 25 therefore, that the state occupies multiple positions in the health system and its  
 26 environment' [7, p.27]. Figure 2.4 shows that the state exercises control over  
 27 health sector agents (here, health care providers and resource generators),

### Box 2.1 Health system relationships and their institutional bases [6]

- ◆ *Government/professional body and providers:* regulatory authority used to secure, e.g. available and good quality service provision to patients.
- ◆ *Government/professional body and financing agents:* regulatory authority used to, e.g. contain costs for patients (controlling pricing and reimbursement levels).
- ◆ *Patients and providers:* financial payments exchanged for service provision.
- ◆ *Population and financing agents:* financial payments exchanged for insurance coverage.
- ◆ *Providers and financing agents:* claims (based on service provision to clients) exchanged for resource allocation (using funds raised from the population).

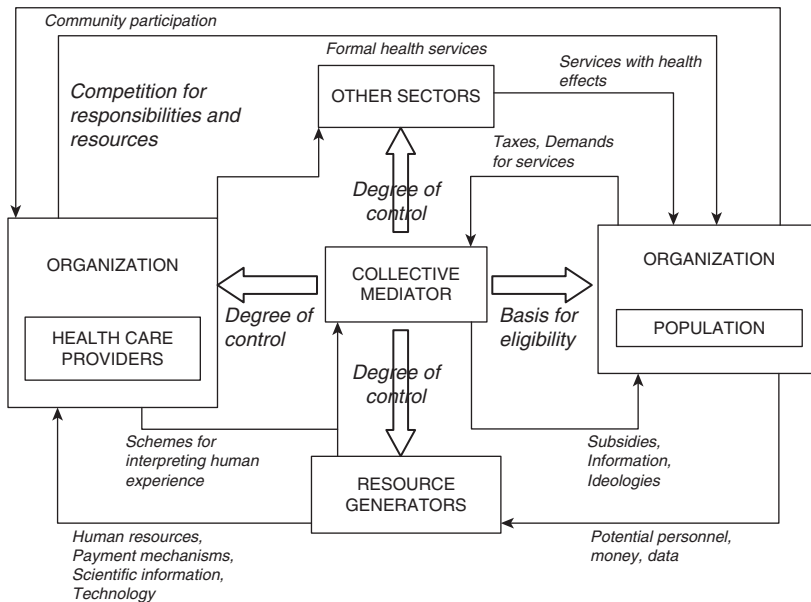


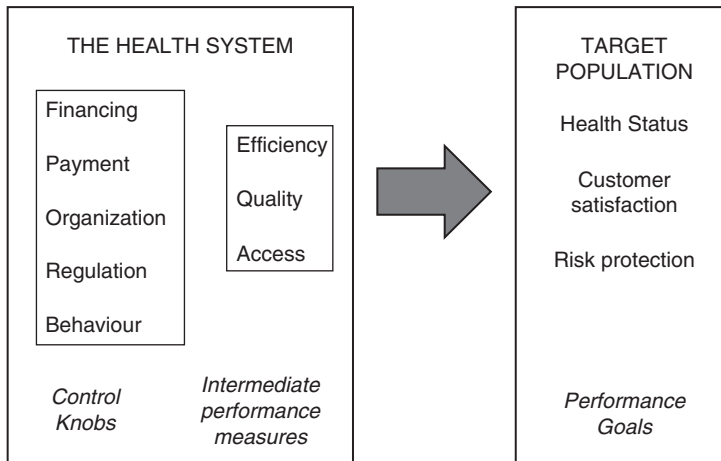
Fig. 2.4 Frenk [9] framework.

1 through some combination of financing, regulation and direct delivery of  
2 services (in effect, ownership). However, it also exercises control over other  
3 sectors (recognizing variations among systems in the degree to which broader  
4 health promoting functions rest in other sectors) and explicitly acts as the  
5 mediator between patients and providers. Finally, the state's relationship to  
6 the population involves, on the one hand, offering the subsidies, information,  
7 and ideologies that shape population interactions with the health sector and,  
8 on the other hand, is based on the basic eligibility principles on which the  
9 health sector is founded (which vary between countries from purchasing  
10 power, to poverty, to the socially perceived priorities accorded particular pop-  
11 ulation groups, to citizenship). The relationship between the state and the  
12 population is thus itself influenced by the prevailing sociocultural norms or  
13 consensus that is embedded in these principles.

14 Indeed, the second layer of complexity embedded in Figure 2.4 is its recogni-  
15 tion of both the layers of exchange embedded within health system relation-  
16 ships and the range of institutions underpinning them. Considering the  
17 relationship between the population and health care providers, Figure 2.4  
18 indicates that the provision of taxes and demand for services is exchanged for  
19 service delivery. However, the figure also shows that the population not only  
20 receives services from providers, but also participates in decision-making *with*  
21 health care providers, or *about* them. The nature of these exchanges suggest  
22 that the underpinning institutions are likely to comprise economic incentives,  
23 the rules of decision-making and the norms and values demonstrated by each  
24 actor through the experience of decision-making. Health care providers, for  
25 example, not only deliver care to the population, but also offer frameworks for  
26 interpreting human experience to patients. Frenk [9, p.27] explains these as  
27 'alternatives to magical and religious explanations [presumably of health and  
28 illness] that can be used to legitimize modernizing ideologies and to exercise  
29 control over the population (for example, in such cases as infectious diseases  
30 and mental disorders)'. Providers, thus, offer new frames of understanding,  
31 new norms, to shape health seeking behaviour and legitimize health care inter-  
32 ventions. Finally, as members of the population and individual providers  
33 belong to various organizations at the same time, these organizations (the  
34 interests of which may themselves conflict) also influence their members'  
35 interactions with other actors.

### 36 2.2.3 Descriptive, analytical, or predictive?

37 The four frameworks so far presented either describe health system compo-  
38 nents [1,5], or support analysis of their functions and operations [6,7]. The  
39 framework of Roberts et al. [8], illustrated in Figure 2.5, goes further, seeking



**Fig. 2.5** Roberts et al. [8] framework.

1 to answer the question, ‘what factors influence how well the functions perform  
 2 in a system?’ [2, p.9].  
 3 Focused only on health care, this framework identifies five ‘control knobs’  
 4 that can be adjusted by government action to influence the relationships  
 5 among health system elements. Although several of these knobs resemble the  
 6 functions of other frameworks, they are seen here as ‘power mechanisms’  
 7 through which actors adjust the health system and generate measurable chang-  
 8 es in system outcomes [2]. As Table 2.1 illustrates, they do this by adjusting the  
 9 institutional drivers of the behaviour of health system agents.

**Table 2.1** The institutional drivers underpinning the control knobs framework

<b>Control knob</b>	<b>Influences</b>
Financing	Who pays and who benefits from health care, as well as generating funding for the system as a whole;
Payment	The ways in which money is transferred to health care providers, creating financial incentives influencing how they behave;
Regulation	The use of state coercion to control the behaviour of other actors within the system;
Organization	The incentives for the organization; and the incentives, authority, skills and attitudes of both managers and workers; and
Behaviour	Information provision and marketing, incentives and coercion shaping how patients and providers act in relation to health and health care (addressing treatment seeking behaviours, health professional behaviours, and patient compliance, lifestyle and prevention behaviours).

1 The health system strengthening interventions highlighted by this frame-  
 2 work include those discussed in the health reform debates of the 1990s [10,11],  
 3 such as financing, resource allocation, regulatory and service delivery reforms.  
 4 Possible organizational reforms include changing: the mix of organizations or  
 5 division of tasks among them, through, for example, privatization; the interac-  
 6 tions among health sector agents and their relationship with the rest of the  
 7 system, through strategies that change incentives such as competition or con-  
 8 tracting out; or what happens inside health care organizations through decen-  
 9 tralization, total quality management, and other types of management  
 10 strengthening or corporatization. Reforms focused on the behaviour knob,  
 11 meanwhile, include quality improvement programmes targeting provider  
 12 behaviour and social marketing programmes targeting patient behaviour. In  
 13 broad terms, this knob acknowledges the importance of provider–patient and  
 14 state–patient relationships in overall health sector and system performance.

15 However, Roberts et al. [8] emphasize that achieving performance and equi-  
 16 ty improvements also demands paying careful attention to six steps in the  
 17 reform process:

- 18 1 Clarifying goals and related policies, prioritizing among the range of  
 19 performance outcomes through ethical reflection, as well as political and  
 20 technical analysis of feasibility.
- 21 2 Carrying out an honest diagnosis of current problems, to identify where  
 22 action is required.
- 23 3 Developing a plan that can be realistically expected to work in a specific  
 24 national context; recognizing also that the process of plan development  
 25 will itself influence its acceptability to key actors and interest groups.
- 26 4 Embracing politics: health sector change affects interest groups differently  
 27 and is subject to broader contextual changes, so all reform processes  
 28 require active political management.
- 29 5 Focusing on implementation, as health sector actors often resist change,  
 30 either from self-interest or anxiety, and it is always necessary to keep an eye  
 31 on results and outcomes.
- 32 6 Learning from mistakes—even successful reform generates new problems.

### 33 2.2.4 Recognizing international influences?

34 None of these five frameworks consider international influences. Yet, as dis-  
 35 cussed in more detail in other chapters (especially Chapters 8–11), international  
 36 factors directly impact on national health systems, through trade in goods, serv-  
 37 ices, and people, and related international agreements, bio-technological



1 advances, and through levels of, and approaches to, channelling, financial and  
 2 technical support. They also indirectly impact on the causes of disease, to which  
 3 health systems must respond, and, by influencing the wider economic situation,  
 4 on national health funding levels. Finally, international factors have influenced  
 5 the institutional underpinnings of health sectors: for example, the market-  
 6 oriented health sector reforms promoted by international agencies have impli-  
 7 cations for the eligibility principles (or social contract) of some national health  
 8 sectors [12]. Future conceptualization of health systems must, therefore, recog-  
 9 nize that national health systems are open systems that interact with their exter-  
 10 nal environment, including international factors (for example, by adopting the  
 11 systems thinking approaches discussed later).

### 12 2.3 Governance and governance reforms

13 Although not well reflected in Figure 2.1, the function of governance is some-  
 14 times portrayed in the WHO BB framework as the central point around which  
 15 the other building blocks turn (reflecting the collective mediator of Frenk [7],  
 16 Figure 2.4). Synonymous with the notion of stewardship, it involves the pro-  
 17 tection of the public interest or ‘the careful and responsible management of the  
 18 well-being of the population’ [13, p.2]. More specifically, governance involves  
 19 guiding the whole health sector through six subfunctions that emphasize both  
 20 some areas of health sector reform and the need to pay attention to the reform  
 21 process (Table 2.2).

22 However, an explicit focus on governance also offers new insights about  
 23 health system relationships and the actions required to strengthen them. The  
 24 dominant institutions underpinning these relationships are not economic  
 25 incentives and regulatory rules. Instead they are the rules, norms and values  
 26 that confer responsibilities and rights. These ‘can be both formal, embodied in  
 27 institutions (e.g. democratic elections, parliaments, courts, sectoral minist-  
 28 tries), and informal, reflected in behavioural patterns (e.g. trust, reciprocity,  
 29 civic-mindedness)’ [14, p.3]. Power is also recognized as a dimension of rela-  
 30 tionships, with the state and providers seen to be generally more powerful than  
 31 citizens. The focus on governance, thus, clearly highlights the normative insti-  
 32 tutional pillar of any health system.

33 From this perspective, health governance is about putting in place effective  
 34 rules that ‘condition the extent to which the various actors involved fulfil their  
 35 roles and responsibilities, and interact with each other, to achieve public pur-  
 36 poses’ [14, p.3]. When these interactions operate well they ensure:

- 37 1 Some level of accountability of key actors to the beneficiaries and broader  
 38 public;

**Table 2.2** Leadership and governance sub-functions [1]

<b>Subfunction</b>	<b>Tasks</b>
<i>Policy guidance</i>	Formulating sector strategies and also specific technical policies Defining goals, directions, and spending priorities across services Identifying the roles of public, private, and voluntary actors and the role of civil society
<i>Intelligence and oversight</i>	Ensuring generation, analysis and use of intelligence on: Trends and differentials in inputs, service access, coverage, safety; Responsiveness, financial protection and health outcomes, especially for vulnerable groups; The effects of policies and reforms; The political environment and opportunities for action; and Policy options.
<i>Collaboration and coalition building</i>	Across sectors in government and with actors outside government, including civil society, to: Influence action on key determinants of health and access to health services; and Generate support for public policies; keep the different parts connected—so-called ‘joined up government’
<i>Regulation</i>	Designing regulations and incentives and ensuring they are fairly enforced
<i>System design</i>	Ensuring a fit between strategy and structure and reducing duplication and fragmentation
<i>Accountability</i>	Ensuring all health system actors are held publicly accountable Transparency is required to achieve real accountability

- 1 2 A policy process that engages key and competing interest groups on equal
- 2 terms (given fair rules of competition), and allows negotiation and compro-
- 3 mise among them;
- 4 3 Sufficient state capacity, power and legitimacy to manage policy making
- 5 and implementation processes effectively; and
- 6 4 Engagement by non-state actors in policy processes, service delivery part-
- 7 nerships and in oversight and accountability.
- 8 Health system governance must, thus, seek to strengthen the critical proc-
- 9 esses through which norms and values are demonstrated, and rules established.
- 10 Reflecting Table 2.2, such action might include: more effective engagement
- 11 with policy actors and better use of information in the policy process (influ-
- 12 encing interactions between citizen and state, and state and providers);

1 enhanced community participation (influencing interactions between citizen  
2 and state, and citizens and providers); and increased accountability and trans-  
3 parency, reducing corruption (influencing interactions among all three sets of  
4 actors).

## 5 2.4 Insights from wider theory relevant to health 6 systems debates

7 The insights of three different and overlapping bodies of conceptual thinking  
8 are briefly presented in this section, and used both to examine the health sys-  
9 tem frameworks and think further about health system strengthening.

### 10 2.4.1 Understanding organizations

11 Although not a comprehensive theoretical overview (for that see, e.g. [15]),  
12 Table 2.3 summarizes three perspectives which illuminate different facets of  
13 organizational realities [16]. The machine perspective sees organizations as  
14 hierarchical arrangements of defined components that work together effi-  
15 ciently and reliably, as in an idealized bureaucracy. The variability of human  
16 behaviour is more or less written out of organizational life in this perspective.  
17 Instead, as Table 2.3 suggests, people working within an organization are  
18 assumed simply to comply with changes, responding to the exercise of organi-  
19 zational authority and related rules and procedures. The economic perspec-  
20 tive, meanwhile, suggests that rather than controlling people through rules,  
21 ‘the self-interested behaviour of people needs to be taken into account in the  
22 structuring of institutional arrangements... [and also]... provides a means of  
23 control and motivation’ [16, p.15]. This perspective suggests that economic  
24 incentives rather than rules represent the institutional basis of organizations.

25 The WHO BB [1] and Roberts et al. [7] frameworks (Figures 2.1 and 2.5)  
26 seem to reflect the institutional understandings of some combination of these  
27 two perspectives; and the WHO HCF framework [6] (Figure 2.3) clearly  
28 reflects the economic perspective. Not surprisingly, therefore, the health sector  
29 reforms they emphasize (see Table 2.3) include standardized packages (such as  
30 decentralization, packages of care), those intended to encourage market-type  
31 relationships or strengthen financial incentives and the use of scientific  
32 evidence to identify the best technical solutions.

33 The sociocultural perspective, in contrast, sees organizations as networks or  
34 clans. It emphasizes that the behaviour of those working in organizations is  
35 fundamentally influenced by social relationships, and by both the norms and  
36 values *and* shared social meanings embedded in them. A growing body of  
37 empirical evidence also confirms this unpredictable human element within

**Table 2.3** Three perspectives of organizational life

	<b>Machine perspective</b>	<b>Economic perspective</b>	<b>Sociocultural perspective</b>
Theoretical considerations	<p><i>View of organization</i></p> <p>Clearly defined parts working efficiently together in routinized ways</p> <p><i>View of human behaviour</i></p> <p>Compliant: Humans simply comply with organizational changes</p> <p><i>Organizational form</i></p> <p>Hierarchy/bureaucracy</p> <p><i>Coordinating mechanisms</i></p> <p>Formal rules and procedures</p> <p>Authority</p>	<p>Atomistic economic actors engaged in market relations</p> <p>Calculating: Humans are individualistic and motivated by self-interest</p> <p>Market</p> <p>Prices</p> <p>Competition</p> <p>Financial incentives</p>	<p>Reflective, responsive people forming a complex social system</p> <p>Social: Human behaviour is influenced by social networks and relationships</p> <p>Social network/community/clan</p> <p>Norms</p> <p>Values</p> <p>Trust</p> <p>Shared meanings</p> <p>Normative</p> <p>Cultural-cognitive</p>
Links to health system reform debates	<p><i>Reforms of focus</i></p> <p>Standardized packages such as: Restructuring, decentralization</p> <p>Scientific search for best technical solutions</p>	<p>Regulative</p> <p>Modify incentive structures through: Privatization, outsourcing, internal markets, competition, performance management</p>	<p>Strengthening norms and values</p> <p>Democratization</p>

1 health systems. In Nepal, for example, the contradiction between the values-  
2 in-use of district health staff and the values expected to support bureaucratic  
3 functioning resulted in training interventions rarely improving performance  
4 [17]. Similarly, there is Indian evidence that the disjunctions between the ide-  
5 als and practice of health system supervision and disciplinary action reflect  
6 local level norms and power relations [18]; and evidence from Pakistan shows  
7 how societal gender norms infuse health system management, making work-  
8 ing life difficult for female health workers [19].

9 This sociocultural organizational perspective is most clear in Brinkerhoff  
10 and Bossert's governance framework [14], although that tends to emphasize  
11 rights and responsibilities over shared social meanings as the institutional basis  
12 of health systems. The Frenk framework (Figure 2.4) also acknowledges social  
13 relationships, values and a range of institutional influences over behaviour,  
14 but the Roberts et al. framework (Figure 2.5) only hints at this perspective (in  
15 highlighting the importance of managerial changes in promoting better per-  
16 formance, in combination with economic incentives).

#### 17 2.4.2 Understanding policy implementation

18 Policy analysis theory broadly considers how ideas, interests, and institutions  
19 play out in policy-making and includes theoretical perspectives on the proc-  
20 esses of policy implementation. Understanding implementation as the interac-  
21 tion between policy and action, this body of theory is clearly relevant to  
22 thinking about how to strengthen health systems and has overlaps with organ-  
23 izational theory (see Table 2.4).

24 The mechanical model of implementation, for example, reflects the organi-  
25 zational machine perspective and both are rooted in reductionist thinking that  
26 simplifies complexity by dividing a problem into subproblems. In implemen-  
27 tation this process is translated into a rational planning and management  
28 approach involving a linear sequence of activities controlled by policy actors at  
29 the centre or top of the organization [20]. Working through economic incen-  
30 tives rather than rules, the economic perspective on organizations also com-  
31 monly assumes such a top-down approach to reform implementation [21].

32 In contrast, the cultural model of the policy-action relationship reflects the  
33 sociocultural perspective on organizations, illustrating the ways in which the  
34 human dimension of organizations plays out in policy implementation. This  
35 model and related work showing the influence of organizational culture on  
36 organizational performance [22,23], emphasize the influence of shared social  
37 meanings over policy implementation. The political model (Table 2.4), mean-  
38 while, reflects a more political view of organizational life than so far discussed. It  
39 emphasizes the power relationships among actors between and within organiza-

**Table 2.4** Models of policy implementation

**The mechanical model**

Central actors have power, working as controllers  
 Only central actors learn  
 Other components (departments, organizations, people) of a system are connected through static and predictable mechanisms  
 To bring about change central actors apply a new mechanism from above

**The cultural model**

Human beings are meaning makers and act on the basis of their own understandings, and interpretations of events  
 In making meaning, they draw on a stock of shared social meanings about specific issues, including the language of politicians and policy makers  
 These social meanings shape how people respond to new ideas and policies  
 Public managers and professionals draw on and use these meanings in making policy in their own environments

**The political model**

All system actors have their own interests and preferences, and seek to use their power to influence outcomes of system  
 Actors at the bottom of the system, including citizens, always have discretionary power (actors at the top cannot control every action)  
 Power is not necessarily used for personal gain, but how it is used influences outcomes  
 Policy and delivery is a result of power balances and of the strategies used by actors

Source: Derived from Open University teaching materials on the Policy-Action relationship. Available at: <http://labspace.open.ac.uk/mod/resource/view.php?id=179001> (accessed 2 August 2009)

1 tions, including the discretionary power of implementing actors who work at the  
 2 local level, such as front-line providers [24], and of beneficiaries [25].  
 3 Environmental health officers in Ghana [26], for example, and community  
 4 health workers in Brazil [27], exercised their power to support policy implemen-  
 5 tation; whereas in South Africa [28] and Tanzania [29] resistance from local level  
 6 health workers and managers undermined the achievement of policy objectives.  
 7 These two implementation models suggest, therefore, that policy implemen-  
 8 tation is a much more negotiated and contested process than that envisaged in  
 9 the mechanical model. Indeed, where this latter model suggests that imple-  
 10 mentation can essentially be commanded by those at the top, the bottom up  
 11 perspectives of the other models indicate that implementation should be  
 12 regarded as ‘...a policy-action dialectic involving negotiation and bargaining  
 13 between those seeking to put policy into effect and those upon whom action  
 14 depends... Policy may thus be regarded as a statement of intent by those seek-  
 15 ing to change or control behaviour, and a negotiated output emerging from  
 16 the implementation process’ [21, p.253].  
 17 Given their largely mechanical and economic bases, health system frame-  
 18 works are, however, often linked to a rational and top down perspective on

1 how to implement change [30]—even when recognizing the importance of  
2 managing the politics of change. The institutional bases of resistance to, and so  
3 contested processes of, implementing change within health systems are essen-  
4 tially ignored.

### 5 2.4.3 Understanding systems

6 The ways in which ‘systems thinking’ see any system, including a health sys-  
7 tem, was highlighted in Chapter 1. Although more widely recognized in high-  
8 income countries, such thinking is only just beginning to influence work of  
9 relevance to health systems in other settings. The approach offers new insights  
10 into the complex and relational nature of health systems and their sociocul-  
11 tural bases, going well beyond the complexity presented in the Frenk [7]  
12 framework.

13 Of particular relevance to this discussion, and reflecting the sociocultural  
14 organizational perspective and the cultural model of policy implementation, is  
15 the insight that agents in a system respond to their environments using inter-  
16 nalized rules, ‘instincts constructs, and mental models’ [31, p.626]. In the form  
17 of institutional memory, some rules are shared across a system, but others may  
18 not be shared and may change over time. Emerging from the interactions  
19 among its agents, the behaviour of the system is, therefore, often unpredicta-  
20 ble, generating unexpected (and sometimes creative) outputs [32].

21 Further comparison of a systems thinking perspective on organizations with  
22 that of the machine and economic/market perspectives, shows different under-  
23 standings of relationships and diversity (Table 2.5). It also makes clear the  
24 systems thinking contributions on learning, power and the importance of the  
25 local, rather than central, level. Reflecting bottom-up implementation theory,  
26 a systems thinking perspective suggests that efforts to implement policy  
27 through a top-down approach are ‘doomed to failure because policy makers  
28 neither command nor control the whole of the system. Worse still attempts to  
29 impose command and control can end up destroying the system’s ability to  
30 adapt—or, in other words, restrict its ability to learn and adapt in the face of a  
31 changing environment’ [33, p.203].

32 Atun and Menabde [34] argue that the characteristics of health systems,  
33 such as the many interacting feedback loops and the unpredictability of inter-  
34 vention outcomes, clearly show the relevance of systems thinking to health  
35 systems. The health system barriers to TB DOTS implementation in the  
36 Russian Federation, for example, included the inherent disincentives created  
37 by existing financing and provider payment systems and organizational struc-  
38 tures, as well as the political difficulties of required reductions or re-allocations  
39 of staff posts and the sociocultural norms which underpinned staff resistance

**Table 2.5** Comparing systems thinking with other organizational perspectives [35, p.101]

<b>Principle</b>	<b>Machine (linear hierarchy)</b>	<b>Market (linear network)</b>	<b>Ecosystem (non-linear network)</b>
Relationships within the system	Simple, static, pre-set	Contractual; directed by price, supply and demand	Diverse and dynamic
Relationship to the environment	Closed	Relatively open	Open
Diversity of elements	Static diversity designed in	Some diversity of elements, little diversity of structure or process	Diverse elements, structure and processes continually changing
Knowledge management	Intelligence designed into the machine and remains fixed	A degree of learning	Learning perspective
Power	Power remains at the top of the hierarchy and is generally unresponsive	Power resides with the larger player and is responsive to resources	Power and influence are distributed locally and reside in relationships
Strategic focus	Little strategic focus	Some strategic focus, particularly by major players	Emphasis is on local level

1 to an externally developed programme. Thus, ‘the context, the interaction  
 2 between health system elements and context-health system interactions affect  
 3 the way rules norms and enforcement mechanisms are interpreted to generate  
 4 response that may not be easy to predict and may indeed be counter-intuitive’  
 5 [34, pp.133–4]. Importantly, context is understood here as encompassing the  
 6 values, norms, and understandings shaping the behaviours and relationships  
 7 of health system actors, rather than only referring to more material and struc-  
 8 tural factors [36].

9 **2.4.4 Summary**

10 All three bodies of theory presented here affirm the relational nature of health  
 11 systems and the wide range of institutional influences embedded within them.  
 12 The drivers of actor behaviour go beyond rules and financial incentives to  
 13 include their relationships with others, the wider set of norms, values, and,  
 14 importantly, shared meanings that underpin those relationships, and conflict-  
 15 ing interests and relative power. Policy implementation theory and systems



1 thinking also emphasize the importance of the local, rather than central, level  
 2 in strengthening systems. Local level forces are the vital influences over system  
 3 performance, and local actors, the ultimate implementers of any policy  
 4 change.

5 In contrast, as Table 2.6 shows, current health system frameworks are  
 6 imbued with a mechanical perspective on health systems, and a command and  
 7 control approach to health system strengthening. The relational nature of the  
 8 health system, its dynamic complexity, is perhaps most fully reflected in Frenk  
 9 [7] and Brinkerhoff and Bossert [14] frameworks. However, neither offers  
 10 much guidance on how to work with that complexity in seeking to strengthen  
 11 health systems.

**Table 2.6** Summary review of health system frameworks

<b>Framework</b>	<b>Institutional drivers considered?</b>	<b>Recognizes relational nature of health system? (dynamic complexity)</b>	<b>Assumes command and control approach to HSS?</b>	<b>Recognizes role of local level?</b>
Roemer [5]	None	No	n/a	No
WHO HCF [6]	Rules and incentives	Partially	Implicitly yes	Not clearly
Frenk [7]	Rules, incentives, sociocultural norms and values	Yes	Unclear	Not clearly
et al. HOBB [1]	None	No (though implied in text)	Largely; need for political management noted	No
Roberts [8]	Rules and incentives emphasized; power acknowledged	Partially	Largely; notes need for political management and for participatory diagnosis and planning	Unclear
Brinkerhoff and Bossert [14]	Rules, socio-cultural norms & values, power influences	Partially	No	Partially

## 1 2.5 Enabling system governance

2 The bodies of theory examined in sSection 4 suggest that health system  
3 strengthening will be better supported by participatory implementation  
4 approaches that seek to manage meaning and strengthen the norms and values  
5 shaping actor behaviour, rather than working primarily through rules,  
6 authority and economic incentives. But how can local level actors be engaged?  
7 Two complementary insights are drawn from the theoretical perspectives  
8 considered here.

9 First, a systems thinking perspective suggests that problem-solving must  
10 be based on testing and learning from action, rather than predominantly  
11 applying reductionist and rational approaches. The complexity of systems  
12 makes anticipating problems almost impossible. Instead systems must support  
13 local-level learning over time by encouraging open relationships and free  
14 exchange among system actors [32]. Such learning is ‘more about problem  
15 coping than problem solving’ [33, p.21].

16 Systems thinkers argue that whilst central planners ought to establish the  
17 general direction of the change they seek and the limits of the change  
18 they would find acceptable, they should allow local flexibility in achieving  
19 those goals and in resource use. Learning is fostered by encouraging experi-  
20 mentation, diversity, and reflection—and embracing both success and failure  
21 [37, 38].

22 Soft systems methodology (SSM) is an approach to such learning. It is par-  
23 ticularly relevant where operational staff are seen to be influential and their  
24 ownership of improvements is essential for bringing about change [37], or  
25 where managers within organizations are willing to learn from the new ideas  
26 and perspectives of actors outside the system [33]. Undertaken by those direct-  
27 ly involved in the area of concern, it involves groups of people working togeth-  
28 er to: explore the problem situation; develop an idealized model of how to  
29 transform it; identify the feasible and desirable changes required to bring about  
30 such transformation; taking any of those actions that they can; and, finally,  
31 reflecting and repeating the cycle of action and learning.

32 There are three key aspects of SSM analytical approaches and tools. They  
33 require iterative processes of action and learning. They allow multiple perspec-  
34 tives to be gathered about current challenges and ways of working differently.  
35 They seek to understand the complex chains of interactions underlying cur-  
36 rent problems as a basis for identifying the key points through which manage-  
37 rial action can leverage cycles of improvement. Some tools also allow  
38 consideration of who has to act differently in bringing about improvement.  
39 Hard analytical methods, such as cost-effectiveness analysis, may be used

1 depending on the nature of the problem [39]. Nonetheless, the main strength  
2 of SSM 'is its ability to bring to the surface different perceptions of the problem  
3 and structure these in a way that all involved find fruitful. Because the process  
4 is strange to most participants, it also fosters greater openness and self-aware-  
5 ness. The process is very effective at team-building and joint problem-solving'  
6 [37, p.76]. On this basis, a ten-step approach to designing and evaluating health  
7 system strengthening interventions that is rooted in wide stakeholder involve-  
8 ment, including front-line providers, and knowledge sharing has been pro-  
9 posed [38].

10 Second, trusting relationships are commonly acknowledged as a critical  
11 basis for encouraging learning. 'For individuals to give of their best, take risks  
12 and develop their competencies, they must trust that such activities will be  
13 appreciated and valued by their colleagues and managers. In particular, they  
14 must be confident that should they err they will be supported, not castigated.  
15 In turn managers must be able to trust that subordinates will use wisely the  
16 time, space and resources given to them through empowerment programmes  
17 and not indulge in opportunistic behaviour. Without trust, learning is a falter-  
18 ing process' [40, p.65]. Trust is also identified, along with rules and contracts,  
19 as one of three possible bases for policy implementation and local manage-  
20 ment [41]. Indeed, given the distribution of power within them, implementa-  
21 tion (or co-production) through local actor networks within and across  
22 organizations requires a more persuasive approach to management than that  
23 associated with rules or contracts.

24 Trust is often seen to be of particular importance to health due to the uncer-  
25 tainty and unpredictability of ill-health, and the influence of trusting relation-  
26 ships over caring behaviour [42, 43]. For instance, four detailed South African  
27 case studies of primary care facilities showed widespread distrust in the  
28 employer. Yet in the two better performing facilities (as assessed by health care  
29 managers, health facility users, and researcher observation), there was also  
30 higher staff motivation levels (assessed qualitatively), some degree of trust in  
31 colleagues and the manager was widely trusted. In contrast, in the worse per-  
32 forming facilities, there were lower staff motivation levels and little trust in  
33 colleagues or the managers [44].

34 Although not yet well developed, ideas about how to develop trust within  
35 health sector relationships highlight the importance of strengthening both  
36 inter-personal behaviours and the institutions shaping them. Relevant inter-  
37 personal behaviours include competence, sincerity, empathy, altruism, fair-  
38 ness and reliability; and these are enabled by institutions that allow the trustor  
39 to judge whether the trustee will act in her best interests or, at least, without  
40 malice. Such institutions encompass all three institutional pillars: organizational

1 roles and procedures, rules and legal frameworks, and the communication and  
2 decision-making practices that generate shared meanings. They generate, in  
3 particular, information about how people are treated by others and the values  
4 driving their behaviour, and support the development of mutual understand-  
5 ing and shared interests. Indeed, it is often said that trust is constructed through  
6 use and worn out by dis-use [45].

7 In thinking about how to develop trust it is also necessary to acknowledge  
8 power: whilst trust may provide the basis for the exercise of legitimate power,  
9 trusting too much, without caution, may lead to the abuse of power [45].  
10 Thus, where communication practices are strongly influenced by the underly-  
11 ing power relationships between actors, trust may be coerced and so illegiti-  
12 mate. Voluntary trust can only be generated when communication is ‘sincere,  
13 open and directed towards achieving understanding and consensus’ [46,  
14 p.437]. This represents a particular challenge for health systems given that the  
15 taken-for-granted power of the doctor or the system commonly results in  
16 ‘instrumental and non-participatory communication based on the belief that  
17 the bio-medical approach is “right”’ [47, p.1458].

18 Nonetheless, if managed carefully, participatory management approaches  
19 can provide opportunities to build trust. The application of soft system  
20 methodology, for example, may generate trust when based on open communi-  
21 cation and dialogue among those involved, and the development of shared  
22 interests. Their use may, then, also, provide the basis for the co-production  
23 necessary to implement agreed actions. However, some initial trust will be  
24 needed to encourage open communication and draw in multiple perspectives.  
25 So in using these, or other participatory management, approaches it is impor-  
26 tant to pay particular attention to the procedures of dialogue, the provision  
27 of institutional guarantees of trust and to limiting the exercise of power  
28 during discussions [14, 47]. Other possible arenas and approaches for the  
29 trust-generation that can strengthen health system performance are summa-  
30 rized in Table 2.7.

## 31 2.6 Implications for health system strengthening

32 Health systems and health sectors within those systems comprise sets of rela-  
33 tionships. However, the institutional foundations of these relationships are  
34 commonly seen through lenses that emphasize rules and economic incentives.  
35 Only the more recent governance frameworks give clearer attention to the  
36 norms and values that underpin systems, and there remains little considera-  
37 tion of the shared social meanings that shape individual and organizational  
38 performance.

**Table 2.7** Generating trust

<b>Relationship</b>	<b>How to generate trust (from health system perspective)</b>
Provider-patient	Strengthening provider communication and listening skills and institutional strategies of communication (e.g. signage, interpreters, employing patient care advisors, working with expert patients, supporting peer support networks)
Health manager-citizen	Developing structures and approaches allowing health officials and communities to work together, supported by resource allocation to enable community engagement and procedures to protect deliberate dialogue
Health manager-health worker	Human resource management practices that offer institutional guarantees of fairness and transparency (e.g. checks on decision-making, opportunities for review, regularity, 360° appraisal systems), that are consistently implemented by managers with strong communication and listening skills and that are backed up by public messages from senior managers and politicians supporting staff without condoning abusive behaviour
Public-private health managers	Formally agreed and fairly enforced contracts, backed up by informal dialogue and engagement to support contract implementation
Health system-citizen	In terms of public health problems and interventions, for example: the provision of clear and consistent formal information messages through wide-ranging communication channels, backed up by consistent public messages (including actions) from senior managers and politicians

Sources: [45,47]

1 In low- and middle-income countries, health reform debates, action to  
 2 strengthen health sectors has, meanwhile, often been portrayed as a centrally  
 3 controlled intervention involving particular sets of structural or incentive  
 4 reforms. In essence, the reformer is seen as an actor intervening from above  
 5 and outside who adjusts the rules of the game (e.g. through control knobs) that  
 6 other health actors play. Although there is growing recognition of the impor-  
 7 tance of adapting reforms to particular contexts on the basis of both careful  
 8 diagnosis of the problems facing any health system and a deliberate process of  
 9 managing change, the reformer is still commonly seen as a rational *deus ex*  
 10 *machina* [8].

11 In contrast, this analysis argues that the complexity of health systems and sec-  
 12 tors means that it is difficult to strengthen them through central action. Effectively  
 13 implementing any change requires understanding implementation as the ‘encul-  
 14 turation of change’ [21, p.260]. It requires re-wiring the institutional drivers of

1 local level behaviour and relationships to sustain new practices or activities. That  
 2 means paying more attention to the inner workings of the system, and particu-  
 3 larly to the overlooked institutions of norms and values, including trust, and  
 4 shared social meanings, rather than to its outer structure of rules and incentives.  
 5 Central level guidance for action must, therefore, be combined both with the  
 6 local level learning that allows new ideas and interventions to be adapted effec-  
 7 tively to local circumstances, and with deliberate action to build trusting rela-  
 8 tionships. This is the crux of health system governance, a critical leverage point  
 9 for health system strengthening [38].

10 Soft systems methodology offers one concrete approach to local level learn-  
 11 ing and trust-building, and can be supported by other actions to generate  
 12 trust. All such action also requires local leadership and engagement, and new  
 13 ways of managing local relationships. The range of leadership strategies needed  
 14 [48] include the ability to:

- 15 ♦ Exercise authority through participation and negotiation, rather than  
 16 control and command. Leaders must establish fair and transparent  
 17 procedures that engage key stakeholders (political authorities, the  
 18 scientific community, health professionals, civil society, and citizens) in  
 19 the process of decision-making, generate legitimate decisions and contain  
 20 the influence of particular interest groups.
- 21 ♦ Use a wide range of data and information in decision-making, going  
 22 beyond the statistics normally produced by health information systems  
 23 and identifying operational and systemic constraints. This information  
 24 must also be publicly accessible, flowing up the public bureaucracy  
 25 through open knowledge networks that involve field level experimentation  
 26 and adaptation, and learning-through-doing.
- 27 ♦ Manage the political and implementation process actively, to secure high-  
 28 level political support and the other resources needed to initiate reforms,  
 29 and to bring about the changes in organizational structure and culture  
 30 that sustain implementation and limit resistance to change.

31 To strengthen health systems, new attention must now be paid to how to  
 32 develop these managerial leadership capacities, and enable the emergence of  
 33 organizational cultures and structures that support local level learning and  
 34 action.

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