Institutional and Organizational Analysis: Concepts and Applications

Eric Alston, University of Colorado

Lee J. Alston, Indiana University and NBER

Bernardo Mueller, University of Brasilia

Tomas Nonnenmacher, Allegheny College

© Alston, Alston, Mueller, and Nonnenmacher

June 13, 2016

*This is a draft of the introduction to a book (Cambridge University Press, forthcoming). Please do not cite without permission of the authors.

Introduction

One of the enduring challenges in economics is to explain the great variability in economic and political performances across countries. While a small number of countries have reached high levels of economic prosperity and political openness, most have experienced short bursts of growth along with considerable economic and political volatility. Institutional and organizational analysis has sought to explain these differences by emphasizing the role of institutions as the fundamental determinant of economic and political development. Practitioners of institutional and organizational analysis analyze beliefs and institutions – the rules, norms, and enforcement mechanisms that determine how people interact – using a toolkit that draws from several disciplines. In this book, we present an overarching framework for institutional and organizational analysis, the tools used to explain the evolution and effects of institutions, and a set of case studies that apply institutional analysis to historical examples.

While institutional and organizational analysis can be used to examine the question of what leads to macroeconomic and political performance, it can also be used to examine questions related to the performance of smaller organizations. All human interaction is affected by the institutional structure in which it takes place, and one goal of the book is to the present the reader with a toolkit that can be applied in many settings. Our framework for institutional analysis weds the foundations of property rights and transaction costs (Part I) to the operation of the political system to create the formal rules of the game (Part II) and the dynamics of deep institutional change (Part III). Each chapter begins with a set of tools for doing institutional analysis that is followed by case studies drawn from economic, legal and political history.

This book differs from other books in this area by its reliance on economic history both for its theoretical development as well as for the case studies. We propose a theoretical overview that relies on clear language rather than the presentation of formal mathematical models, and the case studies are analytical narratives drawn from economic history. We note that many prominent economic historians have been leaders in the field of institutional and organizational analysis, with a central role played by Douglass North and scholars that he influenced around the globe. North was the second President, following fellow Nobel Laureate Ronald Coase, of the International Society of New Institutional Economics (ISNIE), which was renamed the Society for Institutional & Organizational Economics (SIOE) in 2015. Several economic historians, including Gary Libecap, Lee Alston, Thrainn Eggertsson, and Barry Weingast have followed North as President of ISNIE/SIOE.

Each chapter presents a set of theoretical concepts, two or three applications from economic history or economic development, and a list of suggested theoretical and applied readings. We stress that this book is not an overview of the entire literature on institutional and organizational analysis, which is now far too big to summarize in a single volume, but is our attempt at defining the major concepts at play in the literature and integrating them into a unified framework. This framework builds on the institutional and organizational analysis presented in Alston (2007) and

the analysis of beliefs, leadership and institutions presented in Alston, Mueller, Melo, and Pereira (forthcoming 2016). The scope of our book is vast, spanning from issues of contracting to why the whole world is not developed. We argue that institutions are the primary cause of development rather than other potential determinants such as geography, culture or technology.

The book is broken into three parts, each presenting a framework for a different level of institutional analysis. In Part I, we analyze how the laws and norms of society determine *de jure and de facto* property rights, which provide the foundation for the economic system and ultimately shape economic performance. In Part II, we analyze the determinants and impact of the laws of society and their enforcement, which overall determine political performance. In Part II, the constitution is taken as fixed and acts as the umbrella under which organizations and actors interact to shape and enforce laws. Taken together, Parts I and II can be used to analyze the normal operation of the economic and political systems and the interaction among institutions, property rights, technology, and economic performance. The system is not static; there are new technologies and growth, but the underlying belief system and political system remain unaffected.

In Part III, we analyze the circumstances under which norms and beliefs can change and how those changes can lead to transitions to different economic and political trajectories. At this scale, we analyze longer stretches of time, allowing for differences in fundamental core beliefs that in turn can transform the development path of a society. For example, the enlightenment belief that man can change natural conditions to his advantage led to the industrial revolution and ultimately sustained economic development for Great Britain (Mokyr 2012). In Part III we will also analyze the determinants of constitutions which emerge through a process in which beliefs can shape constitutions and under some circumstances constitutions shape beliefs for some organizations and actors in society.

In <u>Part I: Institutions, Technology and Organizations</u>, we combine standard neoclassical economics with the concepts of institutions, property rights and transaction costs to explain contractual choice and economic performance. The framework, presented in Figure 1, maps how the norms and laws of society affect *de jure* and *de facto* property rights (Chapter 2); transaction and transformation costs (Chapter 3); and technology and contractual choice (Chapter 4). In this section of the book, we take laws and norms as given and analyze how institutions affect economic performance. Doing so is meant to provide readers with a vocabulary for analyzing institutions, organizations, property rights, and transaction costs. These concepts, when tied together, yield a tool kit for understanding economic, political, and social outcomes. Our focus in Part I is on economic performance, but these concepts have broad explanatory value, as illustrated in Parts II and III.

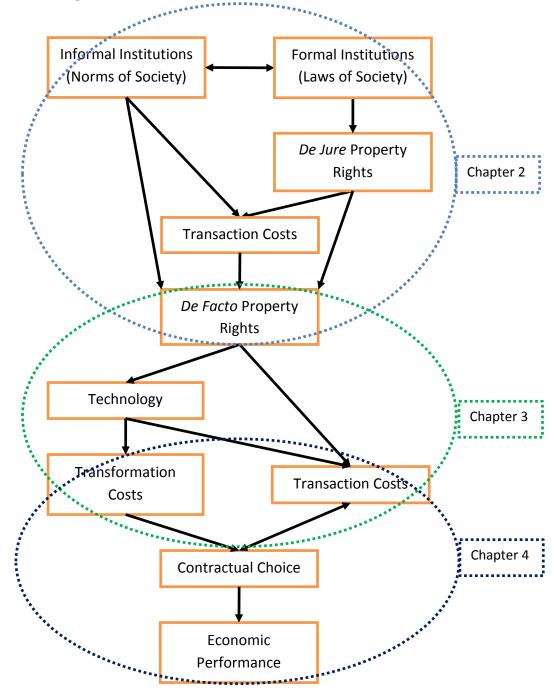


Figure 1: Institutions and Economic Performance

Institutions are "the humanly devised constraints that shape human interaction" (North 1990, 3). In Chapter 2, we break down the analysis of institutions into institutional statements – rules and norms – and their formal and informal enforcement mechanisms. Rules and norms are similar in many of their characteristics, and we follow Ostrom (2005) in distinguishing between them by the explicit "or else" associated with rules but missing from norms. A rule specifies actions that

are permitted, obliged, or forbidden, the circumstances and group to which the rule applies, and the sanctions for violating the rule. Most colleges, for instance, have rules forbidding plagiarism on papers. These rules appear in student handbooks and have the general structure that they apply to students of the college, define plagiarism and when it is forbidden, and specify sanctions. The process by which rules are enforced – a faculty member or college committee – along with the supporting rules and norms and their enforcement define the institution. A norm against plagiarism has many of the same characteristics except that there is no explicit sanction or method of enforcement. Violating a norm against plagiarism might generate feelings of guilt by the violator and contempt for the violator by observers. Norms and rules will certainly differ – a college's rule against plagiarism generally only applies to students whereas the norm against plagiarism also applies to faculty – but they often overlap significantly. When rules are consistent with generally held norms, those rules become much easier for the governing body to enforce.

Constitutions, which we analyze in Part III but take as given in Parts I and II, typically sit at the top of a society's hierarchy of rules, followed by other laws of society, created by the dominant network in a society, followed by rules created by economic and social organizations. This supremacy in the hierarchy of rules is typically achieved through the comparative permanence of a constitution: constitutional rules are less mutable than ordinary law. Because of this primacy in the rule structure, constitutions serve two primary functions. First, in defining fundamental government structures and enforcement mechanisms, constitutions provide the rules about making all other rules, as well as rules for self-amendment. In addition, constitutions express fundamental principles of societal organization, including the blend of rights and duties each individual in society is accorded against one another and the government itself. This characteristic legal hierarchy extends from the public legal system to the realm of contracts.

The laws of society define the distribution of *de jure* property rights. These include the rights to use, sell, derive income from, and bequeath an asset. *De jure* property rights are the formal rights stipulated by the laws of society and enforced by the government or other entity. Laws can never perfectly define rights and the government can never perfectly enforce them, leading to a divide between *de jure* and *de facto* rights. A *de facto* property right is "one's ability, without penalty, to exercise a choice over a good, service or person" (Allen 1998, 106). A broad definition of *de facto* property rights is the ability to influence a defined outcome or process through formal or informal means. *De facto* rights are the combination of the enforced *de jure* rights and the informal abilities that people exercise through extra-legal means. People with informal abilities may seek to acquire *de jure* rights in order to shift the transaction costs of maintaining those rights away from themselves and onto the government. Frontier settlers often seek to solidify their informal claim to land by gaining legal title to it (Alston, Harris, and Mueller 2012). *De facto* and *de jure* rights can stay separated for long periods and violence can ensue when claims conflict. An example is the open rangelands of the western U.S. during the latter half of the 20th

_

¹ Note that Allen (1998) uses the term "economic property right," while we use "de facto property right."

century. Ranchers did not hold formal title to much of the land that they claimed through *de facto* possession, but they prevented homesteaders, who had *de jure* rights of possession, from encroaching on their claims.

The value of property rights to the toolkit of institutional analysis extends considerably further than the examination of production in an economy, a point that our later chapters develop in greater detail. For example, a set of formal rules and informal norms defines the *de jure* and *de facto* property rights of committee chairs in the U.S. Congress (Shepsle and Weingast 1987). Their powers go well beyond the formal rules; informal norms have developed to clarify property rights. In this context, the outcomes of the process are legislative, as opposed to economic, but the relevant actors in the process have control over specific aspects, or uses. These specific uses can be considered singularly, or in discrete bundles, which led to the commonly used metaphor in legal scholarship of property as a "bundle of rights" (Merrill and Smith 2011).

The standard neoclassical theory of production takes technology as given, but in Figure 1, the technological possibilities are endogenous, determined by *de facto* property rights. Patent and trademark law affect the type of technology available and who gets to use it. Laws restricting the use of certain technologies (like very productive fish wheels for catching salmon in the Pacific Northwest) limit producers' property rights and can lead to technical regress (Higgs 1982). Technology can be influenced by more than just the formal laws of society. Norms can determine whether an inventor of a new technology is likely to be lauded or killed by his neighbors. The norms and beliefs associated with the enlightenment were important determinants of the technology developed during the Industrial Revolution (Mokyr 2012).

Since the costs to the government of establishing and maintaining *de jure* property rights are positive, individuals will spend resources on establishing and maintaining *de facto* rights. For example, the government hires police to patrol the streets and maintain law and order, but most people make additional investments by locking their houses and cars. These resources are transaction costs. Transactions costs are incurred whenever an individual, a firm, a government, or any other organization makes the effort to establish and maintain property rights. They appear twice in Figure 1, both as a determinant of *de facto* property rights and as a determinant of contractual choice. Transaction costs are a key tool in the institutional and organizational analysis toolkit, and our goal is to provide a framework for classifying them and understanding their interaction.

The neoclassical theory of production models firms as profit maximizing entities that make decisions about inputs and outputs at the margin. While we do not abandon the marginal analysis central to the neoclassical model, the underlying assumption of zero transaction costs leaves no room for the study of organizations. Organizations are economic, political and social bodies that consist of individuals "pursuing a mix of common and individual goals through partially

coordinated behavior" (North, Wallis, and Weingast 2009, 15). Economic activity is organized in many ways, going well beyond discrete choices such as partnerships versus corporations or the firm versus the market. We use the phrase "contractual choice" in Figure 1 as short-hand for the many institutional and organizational decisions that actors make in structuring economic activity. Which type of contract is chosen is always done on a comparative basis, with each contractual arrangement using different technologies and exhibiting different transformation and transaction costs. Whether a worker on a cotton plantation in the U.S. South worked on a chain gang, was hired as a wage worker, was contracted as a sharecropper, or was a fixed rent tenant was based on the distribution of property rights, the production technology available at the time, the costs of supervising labor, and the costs of monitoring their use of capital. A new distribution of property rights, such as the abolition of slavery, affected technological and contractual choice. A new technology, like the mechanized cotton harvester, disrupted the organization of production, changing the ways in which labor was hired and incentivized (Alston and Ferrie 1999).

In a world without transaction costs, it is of no consequence how society organizes its resources. Production could be organized through central planning, a state sponsored monopoly, a large corporation, small independent partnerships, market transactions or any number of other organizational forms. Economic actors would take the initial allocation of property rights and bargain to the most efficient outcome (Coase 1937, 1960). However, the economic world is one filled with transaction costs, making the organization of society's resources a critical determinant of growth. Institutions fundamentally shape property rights, transaction costs, the technological and contractual choice, and economic performance.

In <u>Part II: Government and Formal Institutions</u>, we present a framework for studying the process of what James Buchanan called "ordinary" or "post-constitutional" politics. Figure 2 starts with economic performance and constitutions and ends with formal institutions, completing the cycle begun in Figure 1. In Figure 2, we take constitutional rules as exogenous and show them as an umbrella over the political process. Legislative decision-making occurs in the shadow of constitutional rules that are defined in a constitution and interpreted by the judiciary. In this framework, actors operate under the umbrella of existing constitutional rules, societal norms, and beliefs. The outcomes of the process are the laws of society and their enforcement. These laws can be made at different levels in a federal system and by different branches of government. In the United States, the legislatures pass bills, the judges make common law, and the administrative agencies make administrative law. The flowchart starts with economic performance and then examines how interests are expressed in the political process (Chapter 5); the functioning of the legislature and executive (Chapter 6); the judiciary (Chapter 7); and the bureaucracy (Chapter 8).

-

² While the tools of institutional and organizational analysis can be applied to any type of organization, the focus of Part I is economic organizations. Part II of the book focuses on political organizations.

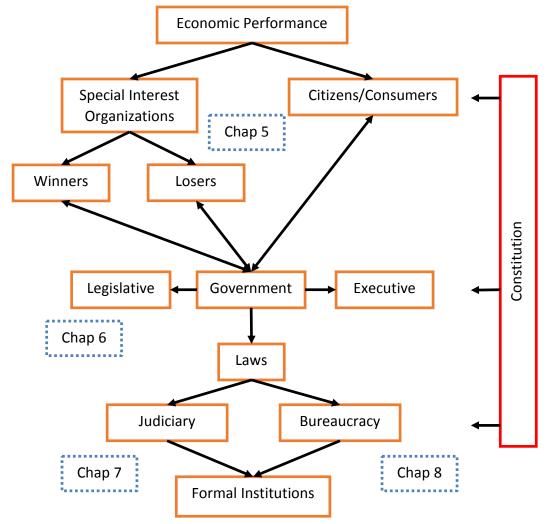


Figure 2: Determinants of Formal Institutions

The normal functioning of the economic system is a process of creative destruction that creates winners and losers (Schumpeter 1942). The losers have an incentive to lobby for rule changes that protect them from market changes, while the winners seek to protect their gains and lobby for additional rules that favor their interests. Winners and losers can be concentrated enough to overcome the collective action problems in lobbying (Olson 1965; Buchannan and Tullock 1962). One group is often concentrated while the other is not, leading to an unbalanced distribution of political power. Free trade might hurt a small group of inefficient domestic producers while helping a large number of consumers, but the concentrated "losers" have a strong interest in protecting their property rights at the expense of the dispersed "winners." Actors do not only respond to past changes in economic performance but also look forward, lobbying for rules that advance their economic interests.

A given set of demands from citizens and special interest groups is filtered through the legislative and executive branches. The output of this process is a set of laws that is then interpreted and enforced by the judiciary and bureaucracy. Different methods of organizing the rule-making process will yield different outcomes. For instance, many small competing parties within a parliamentary system will yield different rules than a strong two party Presidential system. The institutions governing the political process are important. For instance, the rules and norms that govern the committee system in the U.S. Congress determine who has gatekeeping powers and can bring bills to the floor of Congress. The organizational structure of government is not destiny, as political actors will, if they are able, bargain towards outcomes that are mutually beneficial.

The judicial branch of government plays many different roles. It judges the constitutionality of laws, adjudicates disputes, and, in a common law system, creates law via precedent. The institutions governing the judicial system determine whether judges are independent of the executive and legislative branches, the powers of judges to make and interpret the law, and the incentives to bring cases to the legal system. For instance, it matters a great deal for the rule of law whether the courts that interpret the constitutionality of legislation are independent of the executive and legislative branches. If the courts are not independent, then the laws of society can change in ways that are not bound by higher-level constitutional rules. If courts are truly independent, the executive and legislative branches will enact legislation 'in the shadow' of the court, knowing that the court could overturn legislation it deems unconstitutional. The dismal political and economic history of Argentina since 1945 is a good example of the impact on economic performance from a Supreme Court that has not been independent (Alston and Gallo 2010).

The law is administered through bureaucracies. In the United States, federal agencies not only have the power to adjudicate and enforce the laws of Congress, but can also promulgate new rules. The bureaucracies consist of agents with their own interests, creating a principal-agent problem between the legislature and the agency. Employees within the bureaucracy have interests in how the rules are enforced and how the bureaucracy operates. In the United States, most employees of the Environmental Protection Agency (EPA) want to protect the environment, and, given the often vaguely worded laws they are charged to enforce, have great leeway in using their own judgment. Members of Congress, knowing this, may attempt to starve the EPA of resources, hoping to force the agency to prioritize its efforts and reduce its capabilities. Special interest groups also approach the bureaucracy directly, lobbying for changes in agency rules, adjudication, and enforcement.

In <u>Part III: Beliefs, Leadership, and Critical Transitions</u>, we turn from a model of incremental change to explore the dynamics of major political and economic transitions. We introduce four new concepts to understand both stasis and transitions: windows of opportunity, beliefs, leadership, and the configuration of power. In Figure 3 we map out the elements of this framework. At the top of Figure 3 are beliefs and the dominant network, which we discuss in

Chapter 9. The configuration of power includes government and other organizations that have the capability to shape and enforce formal institutions. Because of the plethora of organizations 'at the table,' our view of power is expansive; it includes all of the organizations that can influence the outcomes of the political process. It consists of both economic and political interests, though government plays an especially important role as coordinating activity under the umbrella of a constitution.

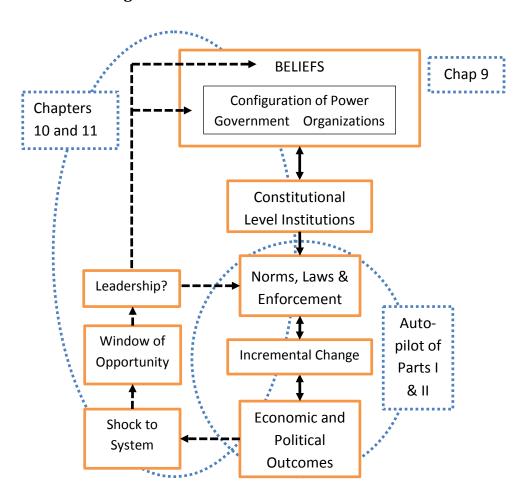


Figure 3: Auto-Pilot and Critical Transitions

Governments coordinate and enforce rules under the shadow of a belief structure. Given a certain power structure, those in power choose institutions to best match their expectations of how institutions will affect outcomes. This is dependent on their set of beliefs. Following North (2005) we consider beliefs as the subjective view of actors of how the world works. For the purposes of tractability, we depart from North by taking a narrower definition of beliefs in order to understand the underlying determinants of the formal constitutions and laws of a society. In our framework, beliefs are the expected views of actors on how institutions will affect economic and political outcomes. When outcomes match expectations we will see marginal changes in

laws and norms but societies are more or less on auto-pilot as depicted at the bottom of Figure 3 and in more detail in Parts I and II of the book. An exogenous or endogenous shock to the economic and political auto-pilot can open a window of opportunity for significant changes in underlying beliefs and institutions. A shock, indicated by the box at the bottom left of Figure 3, occurs when observed outcomes diverge dramatically from expected outcomes. The shock could be the threat of invasion by another country, an economic or natural disaster, or be the culmination of a long endogenous process that leads to a tipping point, e.g., the citizenry may take to the streets to protest against the current dominant networks or a "leader" can shape a latent window of window of opportunity. During such moments there is a role for leaders, who can take advantage of the shock to shape underlying beliefs and constitutional level institutions. However, in the event that leaders do not step forward to take advantage of these windows of opportunity, the moment can pass without any change in beliefs or fundamental institutions. In Chapter 10 we analyze "constitutional moments" as a specific example of a window of opportunity and the interplay among leadership, belief structures, and interests. At constitutional moments, the organizations revamp the rules under which political and economic organizations interact and contract. This process begins with the auto-pilot at the bottom of Figure 3, is instigated by a shock to the system that creates a window of opportunity, and is taken advantage of by leadership who shape beliefs and the configuration of power in such a way to generate constitutional change. As such, it can be thought of as a single loop beginning with the business as usual and ending with a constitutional level institutional change. This process typically involves changes to the constitutional structure itself, through amendments or the drafting of a new constitution. However, fundamental changes to the governance structure can at times be wrought extra-constitutionally.

Deep changes in economic and political trajectories entail more than a single "constitutional moment" or critical juncture. Indeed they require reinforcing institutional changes to alter and solidify core beliefs. In Chapter 11 we will flush out the dynamics of the transition to a new trajectory. The institutional deepening requires multiple loops around the circuit to shape beliefs, the configuration of power, constitutional level institutions, and the supporting norms, laws, and organizations. The process ends in a "new auto pilot," in which beliefs are again in alignment with the outcomes of the economic and political systems.

An Annotated Overview of the Chapters

Part I: Institutions, Technology, and Organizations

Chapter 2: Institutions and Property Rights

We begin this chapter with institutions and how they affect property rights. Our discussion of institutions as the "humanly devised constraints that shape human interaction" builds on North (1990), Eggertsson (1990), Ostrom (2005), Alston (2008), and North, Wallis, and Weingast

(2009). We define institutional statements – rules and norms – as one part of an institutional structure that also includes the organizations and individuals that enforce those statements and complementary institutions. Institutions define property rights, the specification and enforcement of which are fundamentally important for resource allocation. In a world of transaction costs, it is not a straightforward matter to rearrange property rights, so who has the rights will matter a great deal for resource allocation. This is the message of Coase (1960). Property rights also consist of informal rights determined by custom and culture. Informal property rights shape resource use and typically precede formal property rights. This chapter will discuss the incentives and rationales for private, common, state and open access property rights.

Property rights provide the incentives for people to enhance the value of resources by taking care of and investing in the asset. They also affect resource use because if people can sell/own an asset, resources will tend to end up in the hands of those who value it the most, provided capital markets work sufficiently well. In this chapter we will discuss examples of commons arrangements and the forces that sustained them. We will show that there is no necessary hierarchy of one set of rights trumping the other. Indeed, in most society's property rights are a mixture of formal and informal rights that together shape behavior. For the conceptual work, we will draw most heavily on Coase (1960), Barzel (1997), Demsetz (1967) and Ostrom (1990 and 2005).

This chapter has two case studies: 1) the determinants and impact of property rights in the Amazon (Alston, Libecap and Mueller 1999); and 3) property rights in commons arrangements with Cattlemen's associations as an example (Alston, Harris and Mueller (2012); Anderson and Hill (2004) and Dennen (1976)).

Chapter 3: Property Rights and Transaction Costs

This chapter begins by introducing the concept of economic property rights as the rights to use, consume, obtain income from, and alienate the attributes of resources. We distinguish between *de jure* property rights, the "formal legally enacted laws supported by the states' power of violence and punishment" and *de facto* property rights, which are additionally "supported by the force of etiquette, social custom, [and] ostracism" (Alchian, 1977, 129). We then turn to a description of transaction costs as the costs of "transfer, capture, and protection" of property rights. This definition of transaction costs includes any costs associated with organizing human activity, regardless of whether the activity occurs in hierarchies or the price mechanism. The link between property rights and transaction costs is developed using Alchian (1977), Allen (1991, 2000), Barzel (1989), Coase (1937, 1960), Cheung (1983), Demsetz (1967), Eggertsson (1990), Foss and Foss (2005), Kim and Mahoney (2005), Libecap (1989), Smith (2000) and Williamson (1985, 2006). Coase (1937) and Coase (1960) are the foundation of this analysis and are two sides of the same coin; Coase (1937) shows that if transaction costs are zero, the particular method of organizing production is irrelevant to economic efficiency, and Coase (1960) shows that if transaction costs are zero, the initial distribution or property rights is irrelevant to

economic efficiency.³ The true lesson of the Coase theorem is that since transaction costs are never zero, the organization of economic activity and the distribution of property rights matter to economic efficiency. The Coase theorem also has specific implications for institutional analysis: changes in the institutional structure will change the costs of transacting. As those costs fall, the scale and complexity of transactional arrangements in a given society will increase. We will use a framework for classifying transaction costs and understanding the interaction between different transaction costs developed by Alston and Gillespie (1989).

The case studies for this chapter draw from agricultural contracting, including scattering in open fields (Smith 2000); U. S. slavery (Fogel and Engerman 1974; Fogel 1989), contracting in postbellum southern agriculture (Alston and Higgs 1982), the roles of culture and coercion on henequen haciendas in Mexico (Alston, Mattiace, and Nonnenmacher (2009) and Mattiace and Nonnenmacher (2013)).

Chapter 4: Contractual Choice

This chapter focuses on how transaction costs shape contracts within firms, between firms and between individuals and firms. We treat the "price mechanism" and "hierarchies" as the end points on a spectrum of contractual choices and provide a theoretical justification for and examples of different intermediary forms, such as long term contracts, holding companies, joint ventures, and franchising. The conceptual literature will build on the material from Chapters 2 and 3, beginning with Coase (1937), and will use some of the classics of the literature, such as Alchian and Demsetz (1972), Grossman and Hart (1986) Milgrom and Roberts (1990), and Williamson (1975, 1985). We will compare traditional neoclassical explanations for vertical integration with those from institutional and organizational analysis. This literature is vast and we will focus on a few core concepts –agency, bargaining, coordination, enforcement, and information costs – and their applications.

This chapter has two case studies: 1) the integration of Fisher body into General Motors (Coase (1991, 2000), Klein (1988, 2000, 2007), Klein, Crawford, and Alchian (1978), Roider (2006) and 2) the use of franchising in fast food (Kaufmann and Lafontaine (1994) and Kalnins and Lafontaine (2004)).

Part II: Government and Formal Institutions

Chapter 5: Special Interests and Citizens

In this chapter we discuss the role of special interests and citizens in determining policies. We will draw on Olson (1965) for the notion of special interest lobbying resulting from concentrated benefits and dispersed costs. The special interest theory of regulation is developed in Stigler (1971), Peltzman (1976), Becker (1983), Mitchell and Munger (1991) and Grossman and Helpman (2001). For the role of citizens we will draw on Denzau and Munger (1986) and Alston, Libecap and Mueller (under review). Citizens are represented indirectly through

³ This is known as the Coase Theorem though Coase never used the term because transaction costs are never zero.

competition across politicians. In short, if politicians stray too far from the interests of their constituents, other politicians will compete against them and bring the information to the electoral campaign. Some special interests manipulate the information flows to citizens who either put pressure on politicians directly or indirectly in the Denzau/Munger scenario (Alston, Libecap and Mueller).

For case studies on special interests, we will draw on Alston's (1984) analysis of farm foreclosure moratorium legislation and Libecap's (1992) work on the origins of meat inspection and antitrust. We will compare Libecap with Olmstead and Rhode (2004, 2005, 2007), which provides an analysis of state and federal regulation of bovine tuberculosis. For the role of citizens influencing policy we will discuss the case of the Landless Peasants Movement in Brazil in Alston, Libecap, and Mueller (under review).

Chapter 6: The Legislature and Executive

A given set of demands from citizens and special interest groups get filtered through a formal legislative and executive process. To be successful governments need a coordinating mechanism. For the concepts at play we rely on the work of Shepsle and Weingast (1981, 1987); Cox (1987); and Cox and McCubbins (1993). The message is that different governance institutions will yield different outcomes. We will discuss several: a strong two party system within a parliamentary system (Cox 1987); a strong party system within a Presidential system (Cox and McCubbins 1993); a strong committee system within a Presidential system (Shepsle and Weingast 1987); and Presidential system with strong Presidential powers (Alston and Mueller 2006).

For case studies we will rely on: the pivotal role of committees by Shepsle 1978; and Shepsle and Weingast 1987; and the use of strong Presidential powers in Alston and Mueller 2006.

Chapter 7: The Judiciary

One of the foundational insights of New Institutional Economics, derived from Coase (1960), is that if transaction costs are negligible and property rights are secure and well-defined, then the economy will automatically reach an efficient allocation and organization, independent of the specification of property rights. This means that as long as the laws are clear and secure, the content of the law does not have any impact on efficiency. But given that transaction costs are always present and property rights are never unambiguous, the content of the law is tremendously consequential. This central insight has spawned several lines of inquiry that seek to assess and measure the impact of the law and property rights on economic performance, including but not limited to the literatures on Law and Economics, Property Rights, Legal Origins, Law and Finance, and Regulation.

Given the central importance of the law it is necessary to understand the processes through which it arises and evolves, as well as the impacts it has on economic activity and performance. In this chapter we focus on the role of the Judiciary in creating, interpreting and enforcing the law, and the impact this has on economic performance. This includes issues of judicial

independence and separation of powers, theories of judicial behavior and reputation, and the incentives and outcomes due to different legal forms and types of judicial organization.

For case studies we will use: 1) Alston and Gallo (2010) on the impeachment of Supreme Court Justices in Argentina under Peron and the aftermath of policy instability and economic decline; 2) in the midst of the Great Depression President Roosevelt attempted to "stack" the Supreme Court and there was a public outcry (citation yet to be determined). In both episodes beliefs played a pivotal role.

Chapter 8: Bureaucracies and Regulation

Once the demand for laws and policies have been filtered through the political system and a specific set of laws and policies have been decided by the supply side of government, there is still an important additional step during which their actual form and content can be significantly influenced. The laws and policies have to be implemented, managed and enforced. This is done by bureaucracies and a varied spectrum of agencies and other governmental organizations. Much of the literature simply assumes that the laws and policies will be faithfully implemented by agents according to the original intent of the legislators and politicians. More realistically, however, bureaucrats and regulators will have more information and greater specialization than the principals, so that they can exploit the information advantage to shape outcomes according to their own preferences. The extent to which they can do so depends on the way institutions shape and constrain the form this implementation and enforcement can take. The politicians who delegate the task of executing the policies are aware of this shirking and try to mitigate their losses by designing the structure and process of the bureaucracies and agencies so as to constrain the opportunistic behavior. Their success in doing so varies greatly from case to case and depend the nature of the policies, of the agents and naturally of the country's institutions. In some cases the agents will be essentially free to pursue their own interest (James Q. Wilson, 1989); while in others the principals will have complete control over the agents (Weingast and Moran, 1983); with a gamut of intermediary possibilities in between. Institutional and organizational analysis thus provides a set of instruments that help explain the *de facto* form and content of policies as well as their impact on performance.

For case studies: 1) Weingast and Moran (1983) on the FTC; 2) Levy and Spiller (1994) on Regulatory Commitment.

Part III: Beliefs, Leadership, and Critical Transitions

Chapter 9: Beliefs and the Configuration of Power

Governments are one actor, and, indeed the most important actor amongst organizations who have power to shape formal institutions. Our view of government departs from the notion that governments exist because they have a comparative advantage in violence to recognizing that governments facilitate cooperation, in part to prevent violence (Wallis and North 2014). The organizations in power, with the government being the focal player, establish institutions under the shadow of a belief structure. Those in power choose institutions to best match their

expectations of how formal institutions will affect outcomes. This is dependent on their set of beliefs. We will build on North (2005); Greif (2006); Eggertsson (2005); Schofield (2006) and Alston, Melo, Mueller and Pereira (forthcoming 2016). We will present two case studies: 1) the case of Iceland trapped in a set of beliefs that yielded institutions inconsistent with development (Eggertsson 2005); and 2) the current ongoing transition in Brazil (Alston, Melo, Mueller and Pereira (forthcoming, 2016) in which a belief in fiscally sound social inclusion drives the choice of institutions many of which have outcomes that yield a good deal of dissipation.

Chapter 10: Windows of Opportunity and Constitutional Moments

Most societies are locked into a dynamic which we call auto-pilot: those in power make marginal changes to institutions because the outcomes match their expectations which include rents to those in power. This is the major reason why so few countries ever transition to more open economic and political systems. But, there are moments when outcomes differ dramatically from expectations. This creates a window of opportunity for big changes in institutions via a change in beliefs. When economic or political outcomes differ greatly from expectations, beliefs become malleable and this provides an opportunity for leadership to begin a transition to a new trajectory. By leadership we mean that a person plays the role of recognizing the problem or dilemma to be solved and coordinating action. For the concepts of windows of opportunity and leadership we draw most heavily on Alston, Melo, Mueller and Pereira (forthcoming 2016) but also Eggertsson (2005); Greif (2006) and Schofield (2006).

A window of opportunity entails a process of iterative changes that we discuss in detail in Chapter 11 but many of windows of opportunity result in countries either writing new constitutions; dramatically amending a constitution (e.g. the amendment to abolish slavery in the U.S.); or drafting significant laws (e.g. the back to back Civil Rights and Voting Rights Acts in the U.S.) Because Constitutional changes are qualitatively different from "business as usual," we highlight the views of constitutional economics (Buchanan and Tullock 1962, Brennan and Buchanan 1980, and others). The spirit of the Buchanan et al. literature is that there is a big difference between constitutional rules and choices, versus "operational choices" or laws. For constitutional choices, if the framers are behind a veil of ignorance or uncertainty, nonpartisan behavior would dominate, whereas once the rules are in place partisan behavior would dominate. Of course no framers are ever under a veil of ignorance so a mix of partisan and non-partisan behavior is likely at play. An analogy would be from sports. The designers of a game make the rules for the game, but once the game commences, the players do all that they can to win for their team. When making the constitution they are forming a league of teams consisting of rules for all. A league composed of people willing to agree to the rules is a definition of government. Because direct democracies are costly, we tend to see representative governments dominate. Constitutions lay out the underlying way a society will be governed, e.g. terms of office, bicameral or uni-cameral, presidential or parliamentary. Constitutions also spell out what governments cannot do. The citizens have a set of rights or personal freedoms.

Because the framers of constitutions are never completely disinterested participants, they have an objective function consisting of their personal beliefs (e.g. favoring a strong or weak central government) as well as their personal interests (e.g. are they in finance or farming). For the constitutional framing process we draw heavily on McGuire (2003). Most constitutions also need to be ratified so the framers of constitutions need to consider the personal interests and beliefs of those downstream who will potentially ratify the constitution.

Because a constitutional assembly is a collective, leadership matters and the beliefs of leaders play an especially important role. Leadership is composed of five elements, not all of which need be present to affect change: cognition, coordination, adaptability, imagination and moral authority. A leader must recognize clearly what she is trying to accomplish, e.g. a strong central government for national defense (cognition). A leader must be able to coordinate others such that they agree to the leader's belief about the rules. This entails persuasion as well as agenda control. Though leaders and their allies have a "plan" the best laid plans frequently go awry, so leaders must be adaptable to change. Imagination, coming up with a simply a new idea in the sense of entrepreneurship can be incredibly important. Imaginative thinking and action by definition entails risk taking into uncharted waters. Lastly, leadership will be more effective if the "leader" has moral authority. Most likely several members of the constituent assembly will have illustrious histories as war heroes or spent time in prison. For this section we will draw on Alston, Melo, Mueller and Pereira (forthcoming); Greif (2006); Riker (1996); and Schofield (2006).

We will present two case studies: 1) the role of leadership and belief change in going from the Articles of Confederation to the United States as a result of the Constitution; and 2) different clauses in constitutions may lead to different economic and political outcomes. We will draw on the results from testing the data contained in the "Comparative Constitutional Project" (Elkins and Ginsburg). The most recent survey is Voigt (2011).

Chapter 11: Dynamics of Economic and Political Outcomes

This chapter covers one of the most enduring questions in economics: what explains the great variability in economic growth and performance across countries? Even today only a small number of countries have reached high levels of economic performance and prosperity, while most have experienced at best unsustainable bouts of growth mired in great volatility over time, in patterns that have not led to the convergence of incomes and standards of living to the level of the developed countries. Since Adam Smith's "The Wealth of Nations" there have emerged a great variety of theories and approaches that try to explain these issues. New Institutional Economics has sought to answer this question by emphasizing the role of institutions as the fundamental determinant of economic growth and prosperity, with roots in Douglas North's early work in economic history (North and Davis, 1971; North and Thomas, 1973). In the last 15 years this institution-centered approach to understanding development has been embraced by the mainstream of the economics profession and is now received wisdom. This conversion started perhaps with the seminal paper by Engerman and Sokolof (1997), but really took off with

Acemoglu, Johnson and Robinson (2001). Attempts to build indices that capture some aspect of institutions for use in cross-country regressions, as well as clever strategies to control for simultaneity of growth and institutions, have proliferated to the point of exhaustion. Almost invariably the results confirm the primacy of institutions as the main underlying determinant of prosperity, as opposed to alternative hypotheses, such as geography, culture, good rulers or policies. Rather than focusing on this cross-country regression literature we will base this chapter instead on two important recent frameworks that attempt to explain the broad dynamics through which economic and political institutions interact and impact economic and political outcomes (North, Wallis and Weingast, 2009; Alston, Melo, Mueller and Pereira, forthcoming).

This focus on explanatory frameworks takes us to the core of understanding economic, legal and political development. What, if any, institutional structure writ large facilitates economic development? Certain institutions such as rights to property and the rule of law have been convincingly identified as essential to modern political and economic development. However, their explanatory value is tied up in the larger set of formal and informal institutions that a society displays at any given time. Institutions' broad contribution to economic development can be characterized as that of a scalar mechanism in ordering human behavior. Better formal and informal institutions allow for an increase in the complexity, magnitude, and resilience of economic and political commitments, all of which are core inputs to sustainable economic development.

In all of our chapters we view transaction costs of the extant institutions as key to economic and political performance. Once transaction costs are understood, many seeming impediments to better economic and political performance make sense. Transaction costs are an impediment to perfect representativeness in political institutions, causing special interests to arise. Transaction costs are an impediment to using the market mechanism of individual contracting, causing firms to arise. Transaction costs are an impediment to the single central planner who optimally allocates all forms of capital and labor to maximize social welfare, giving rise to the roles of federalism and decentralization in political theory and design of government (Hirschman) as well as the importance of local knowledge in terms of making economic and political decisions (Hayek).

A set of institutions that reduce transaction costs compared to alternative set of institutions is better able to sustain commitments and transactions of greater scale and complexity given the same set of underlying resource endowments. A greater diversity of specialized commitments of resource allocations can occur via more complex and lengthier financial mechanisms. The complexity of contractual forms that is precluded in a higher transaction cost environment also implies a superior degree of adaptability to new technological opportunities. The greater the number of potential contractual forms in which future commitments can plausibly be framed, the greater the likelihood that the overall institutions will be able to accommodate, if not flourish under, otherwise disruptive shocks whether technological, demographic, financial or natural. In other words, comparatively superior institutions facilitate resilience to uncertainty to exogenous

shocks broadly.⁴ Shocks can also be seen as prompting increases or decrease in scale, complexity, or uncertainty. For example informal frontier property rights were stable and functional until enough scale (number of people) or complexity (heterogeneity of entrants) demanded a transition toward a new institutional equilibrium.

The deeper questions of how institutions facilitate economic and political development are best treated by these comprehensive analytical frameworks applied to specific countries' successful transitions to new institutional equilibriums. One such case study will be on the development of Brazil, a country that appears to be successfully moving towards higher levels of development (Alston, Melo, Mueller and Pereira, 2016). The other will address how and why the U.S. managed to make that transition in the 19th century (North, Wallis and Weingast, 2009).

Chapter 12: Concluding Remarks: Insights from Institutional and Organizational Analysis for Business, Law and Public Policy

In our concluding chapter we will offer some insights of institutional and organizational analysis for Business Strategy, Law and Public Policy. This section will need further reflection before we can be precise but we will take a general insight and illustrate it with an example or two. The overarching motivation is that economic activity gets organized in many different ways: in hierarchies, in the price mechanism, and in lots of hybrids in between. The impact on the performance of countries, firms and individuals of all these ways of organizing economic activity depends on the *de jure* and *de facto* rules of the game that underlie their choices and interactions. How those rules are generated and the effects of those rules – be it at the constitutional, regulatory, or micro level – can be studied using the concepts of institutional and organizational analysis.

-

⁴ Wallis (2016) expands on this point in what he terms "shrink theory."

Bibliography

- Acemoglu, Daron and James A. Robinson. *Economic Origins of Dictatorship and Democracy*. Cambridge: Cambridge University Press, 2006.
- Akerlof, George A. "The Market for 'Lemons': Quality Uncertainty and the Market Mechanism." *Quarterly Journal of Economics* 84, no. 3 (Aug 1970): 488-500.
- Alchian, Armen A. Economic Forces at Work. Indianapolis: Liberty Press, 1977.
- Alchian, Armen A. and Harold Demsetz. "Production, Information Costs, and Economic Organization." *American Economic Review* 62, no. 5 (Dec 1972): 777-795.
- Allen Douglas W. "What are Transaction Costs?" *Research in Law and Economics* 14 (1991): 1-18.
- ——. "Property Rights, Transaction Costs, and Coase: One More Time," edited by Steven G. Medema, *Coasean Economics: Law and Economics and the New Institutional Economics*. Boston: Kluwer Academic, 1998.
- ——. *Transaction Costs*, Encyclopedia of Law and Economics (Volume One: The History and Methodology of Law and Economics) Bouckaert, Boudewijn and De Geest, Gerrit, eds. Chelthenham: Edward Elgar Press, 2000. pp. 893-926.
- Allen, Douglas W. and Dean Lueck *The Nature of the Farm*. Cambridge, MA: MIT Press, 2003.
- Alston, Lee J. "Empirical Work in Institutional Economics: An Overview." In *Empirical Studies in Institutional Change*, edited by Alston, Lee J., Thrainn Eggertsson and Douglass C. North eds, 25-30: Cambridge: Cambridge University Press, 1996.
- ——. "Farm Foreclosure Moratorium Legislation: A Lesson from the Past." *American Economic Review* 74, no. 3 (June 1984): 445-457.
- ——. "Farm Foreclosures in the United States during the Interwar Period." *Journal of Economic History* 43, no. 4 (Dec 1983): 885-903.
- ——. "Institutions and Property Rights Across Time and Space: Lessons from Eastern Europe and Latin America." In *Liberalization and its Consequences: A Comparative Perspective on Latin America and Eastern Europe*, edited by Baer, Werner and Joseph L. Love. Northampton, Mass.: Edward Elgar, 2000.
- ———. "The New Institutional Economics" in *The New Palgrave Dictionary of Economics* edited by Steven Durlauf and Lawrence Blume. London: Palgrave Macmillan, 2007.
- Alston, Lee J., and Krister Andersson, "Reducing Greenhouse Gas Emissions by Forest Protection: The Transaction Costs of Implementing REDD," *Climate Law* 3 (2011): 1-9.
- Alston, Lee J., Ruth Dupré, and Tomas Nonnenmacher. "Social Reformers and Regulation: The Prohibition of Cigarettes in the U.S. and Canada." *Explorations in Economic History* 39, no. 4 (2002): 425-445.
- Alston, Lee J. and Joseph P. Ferrie. *Paternalism and the American Welfare State: Economics, Politics, and Institutions in the U.S. South, 1865-1965.* Cambridge: Cambridge University Press, 1999.

- ——."Time on the Ladder: Career Mobility in Agriculture, 1890-1938." *Journal of Economic History* 65, no. 4 (2005): 1058-1081.
- Alston, Lee J. and Andres A. Gallo. "Electoral Fraud, the Rise of Peron and Demise of Checks and Balances in Argentina." *Explorations in Economic History* 47, no. 2 (Apr 2010, 2010): 179-197.
- Alston, Lee J. and William Gillespie. "Resource Coordination and Transaction Costs: A Framework for Analyzing the Firm/Market Boundary." *Journal of Economic Behavior and Organization* 11, no. 2 (Mar 1989): 191-212.
- Alston, Lee J., Edwyna Harris, and Bernardo Mueller. "The Development of Property Rights on Frontiers: Endowments, Norms, and Politics." *Journal of Economic History* 72, no. 3 (Sep 2012): 741-770.
- Alston, Lee J. and Robert Higgs. "Contractual Mix in Southern Agriculture since the Civil War: Facts, Hypotheses, and Tests." *Journal of Economic History* 42, no. 2 (1982): 327-353.
- Alston, Lee J., Jeffrey A. Jenkins, and Tomas Nonnenmacher. "Who should Govern Congress? Access to Power and the Salary Grab of 1873." *Journal of Economic History* 66, no. 3 (Sep 2006): 674-706.
- Alston, Lee J., Gary D. Libecap, and Bernardo Mueller. "Land Reform Policies, the Sources of Violent Conflict, and Implications for Deforestation in the Brazilian Amazon." *Journal of Environmental Economics and Management* 39, no. 2 (2000): 162-188.
- . Titles, Conflict, and Land use: The Development of Property Rights and Land Reform on the Brazilian Amazon Frontier. Ann Arbor: University of Michigan Press, 1999.
- ——. "Interest Groups, Information Manipulation in the Media, and Public Policy: The Case of the Landless Peasants Movement in Brazil" NBER Working Paper No. 15865, (March 2013).
- Alston, Lee J., Shannan Mattiace, and Tomas Nonnenmacher. "Coercion, Culture, and Contracts: Labor and Debt on Henequen Haciendas in Yucatán, Mexico, 1870–1915." *The Journal of Economic History* 69, no. 1 (2009): 104-137.
- Alston, Lee J. and Bernardo Mueller. "Pork for Policy: Executive and Legislative Exchange in Brazil." *Journal of Law, Economics, and Organization* 22, no. 1 (Apr 2006): 87-114.
- Alston, Lee J., Marcus Melo, Bernardo Mueller, and Carlos Pereira. *Beliefs, Leadership, and Economic Transitions: Brazil 1964-2012*. Oxford: Oxford University Press, Forthcoming.
- Alt, James E. and David D. Lassen. "Political and Judicial Checks on Corruption: Evidence from American State Governments." *Economics and Politics* 20, no. 1 (Mar 2008): 33-61.
- Anderson, Terry L. and Peter J. Hill. *The Not so Wild, Wild West: Property Rights on the Frontier*. Stanford: Stanford University Press, 2004.
- Barzel, Yoram. *Economic Analysis of Property Rights*. Second edition ed. Cambridge: Cambridge University Press, 1997.
- Becker, Gary. "A Theory of Competition among Pressure Groups for Political Influence." *Quarterly Journal of Economics*, vol. 98 (August 1983): 371-400.

- Brennan, Geoffrey, and James M. Buchanan. *The Power to Tax: Analytical Foundations of a Fiscal Constitution*. Cambridge: Cambridge University Press, 1980.
- Brousseau, Eric and Jean-Michel Glachant, eds. *New Institutional Economics: A Guidebook*. Cambridge: Cambridge University Press, 2008.
- Buchanan, James M. The Demand and Supply of Public Goods. Chicago: Rand McNally, 1968.
- Buchanan, James M. and Gordon Tullock. *The Calculus of Consent: Logical Foundations of Constitutional Democracy*. Ann Arbor: University of Michigan Press, 1962.
- Carey, John M. *Presidential Versus Parliamentary Government*, edited by Carey, John M., edited by Menard, Claude, Mary M. Shirley eds Dordrecht and New York: Springer, 2005.
- Casadesus-Masanell, Ramon and Daniel F. Spulber. "The Fable of Fisher Body." *Journal of Law and Economics* 43, no. 1 (Apr 2000): 67-104.
- Cheung, Steven N. S. "The Contractual Nature of the Firm." *Journal of Law and Economics* 26, no. 1 (Apr 1983): 1-21.
- Choi, Stephen J., G. Mitu Gulati, and Eric A. Posner. "Professionals Or Politicians: The Uncertain Empirical Case for an Elected rather than Appointed Judiciary." *Journal of Law, Economics, and Organization* 26, no. 2 (Aug 2010): 290-336.
- Coase, Ronald H. "The Nature of the Firm." *Economica*, 4, (Nov 1937): 386-405.
- ——. "The Problem of Social Cost." *Journal of Law and Economics* 3, (Oct 1960): pp. 1-44.
- ——. "The Acquisition of Fisher Body by General Motors." *Journal of Law and Economics* 43, no. 1 (Apr 2000): 15-31.
- ——. "The Conduct of Economics: The Example of Fisher Body and General Motors." *Journal of Economics and Management Strategy* 15, no. 2 (Jul 2006): 255-278.
- Cox, Gary W. The Efficient Secret: The Cabinet and the Development of Political Parties in Victorian England. Cambridge: Cambridge University Press, 1987.
- Cox, Gary W. and Matthew D. McCubbins. *Legislative Leviathan: Party Government in the House*. Berkeley: University of California Press, 1993.
- Demsetz, Harold. "Toward a Theory of Property Rights." *American Economic Review* 57, (May 1967): 347-359.
- Dennen, R. Taylor. "Cattlemen's Associations and Property Rights in Land in the American West." *Explorations in Economic History* 13, no. 4 (Oct 1976): 423-436.
- Denzau, Arthur T. and Michael C. Munger. "Legislators and Interest Groups: How Unorganized Interests Get Represented." *American Political Science Review* 80, no. 1 (Mar 1986, 1986): 89-106.
- Denzau, Arthur T. and Douglass C. North. "Shared Mental Models: Ideologies and Institutions." *Kyklos* 47, no. 1 (1994): 3-31.
- Elkins, Zachary, Tom Ginsburg, and James Melton. *The Endurance of National Constitutions*. Cambridge: Cambridge University Press, 2009.

- Eggertsson, Thrainn. *Economic Behavior and Institutions*. Cambridge: Cambridge University Press, 1990.
- ——. *Imperfect Institutions: Possibilities and Limits of Reform.* Ann Arbor: University of Michigan Press, 2005.
- Engerman, Stanley L. and Kenneth L. "Factor Endowments, Institutions, and Differential Paths of Growth Among New World Economies: A View from Economic Historians of the United States," in *How Latin America Fell Behind*. Stephen Haber, ed., Stanford: Stanford University Press.
- ——. Economic Development in the Americas since 1500: Endowments and Institutions. Cambridge and New York: Cambridge University Press, 2012.
- Fogel, Robert W. Without Consent or Contract. New York: W.W. Norton and Company, Inc.
- Fogel, Robert W. and Stanley L. Engerman. *Time on the Cross: The Economics of American Negro Slavery*. Boston: Little, Brown & Co. 1974.
- Foss, Kirsten and Nicolai J. Foss. "Resources and Transaction Costs: How Property Rights Economics Furthers the Resource-Based View." *Strategic Management Journal* 26, (06; 2013/6, 2005): 541-553.
- Greif, Avner. *Institutions and the Path to the Modern Economy: Lessons from Medieval Trade*, edited by Greif, Avner. Cambridge: Cambridge University Press, 2006.
- Grossman, Gene M. and Elhanan Helpman. Special Interest Politics. Cambridge: MIT Press, 2001.
- Grossman, Sanford J. and Oliver D. Hart. "The Costs and Benefits of Ownership: A Theory of Vertical and Lateral Integration." *Journal of Political Economy* 94, no. 4 (Aug 1986): 691-719.
- Hayek, Friedrich A. "The use of Knowledge in Society." *American Economic Review* 35, (1945): 519-530.
- Higgs, Robert. Legally Induced Technical Regress in the Washington Salmon Fishery, edited by Lee J. Alston, Thrainn Eggertsson and Douglass C. North eds *Empirical Studies in Institutional Change*. Cambridge: Cambridge University Press, 1996.
- Jensen, Michael C. and William H. Meckling. "Theory of the Firm: Managerial Behavior, Agency Costs and Ownership Structure." *Journal of Financial Economics* 3, no. 4 (Oct 1976): 305-360.
- Joskow, Paul L. "Contract Duration and Relationship-Specific Investments: Empirical Evidence from Coal Markets." *American Economic Review* 77, no. 1 (Mar 1987): 168-185.
- Kalnins, Arturs and Francine Lafontaine. "Multi-Unit Ownership in Franchising: Evidence from the Fast-Food Industry in Texas." *RAND Journal of Economics* 35, no. 4 (Jan 2004): 747-761.
- Kaufmann, Patrick J. and Francine Lafontaine. "Costs of Control: The Source of Economic Rents for McDonald's Franchisees." *Journal of Law and Economics* 37, no. 2 (Oct 1994): 417-453.

- Kim, Jongwook and Joseph T. Mahoney. "Property Rights Theory, Transaction Costs Theory, and Agency Theory: An Organizational Economics Approach to Strategic Management." *Managerial and Decision Economics* 26, no. 4 (Jun 2005): 223-242.
- Klein, Benjamin. "The Economic Lessons of Fisher Body-General Motors." *International Journal of the Economics of Business* 14, no. 1 (Feb 2007): 1-36.
- ——. "Fisher-General Motors and the Nature of the Firm." *Journal of Law and Economics* 43, no. 1 (Apr 2000): 105-141.
- ——. "Vertical Integration as Organizational Ownership: The Fisher Body-General Motors Relationship Revisited." *Journal of Law, Economics, and Organization* 4, no. 1 (Apr 1988, 1988): 199-213.
- Klein, Benjamin, Robert G. Crawford, and Armen A. Alchian. "Vertical Integration, Appropriable Rents, and the Competitive Contracting Process." *Journal of Law and Economics* 21, no. 2 (Oct 1978): 297-326.
- Klein, Peter G. "The Make-Or-Buy Decision: Lessons from Empirical Studies." In *Handbook of New Institutional Economics*, edited by Menard, Claude and Mary M. Shirley eds, 435-464. New York: Springer, 2005.
- Knight, Frank. Risk, Uncertainty, and Profit. New York: Houghton Mifflin Co., 1921.
- Levy, Brian and Pablo T. Spiller. "The Institutional Foundations of Regulatory Commitment: A Comparative Analysis of Five Country Studies of Telecommunications Regulation," *Journal of Law, Economics and Organization*, (October 1994): 201-246.
- Libecap, Gary D. *Contracting for Property Rights*. Cambridge: Cambridge University Press, 1989.
- ——. "The Rise of the Chicago Packers and the Origins of Meat Inspection and Antitrust." *Economic Inquiry* 30, no. 2 (Apr 1992): 242-262.
- Libecap, Gary D. and Steven N. Wiggins. "The Influence of Private Contractual Failure on Regulation: The Case of Oil Field Utilization." *Journal of Political Economy* 93, no. 4 (1985).
- McGuire, Robert A. To Form a More Perfect Union: A New Economic Interpretation of the United States Constitution. Oxford: Oxford University Press, 2003.
- Menard, Claude and Mary M. Shirley, eds. *Handbook of New Institutional Economics*. New York: Springer, 2005.
- Milgrom, Paul and John Roberts. "Bargaining Costs, Influence Costs, and the Organization of Economic Activity." In *Perspectives on Positive Political Economy*, edited by Alt, James E. and Kenneth A. Shepsle, 57-89. Cambridge: Cambridge University Press, 1990.
- Moe, Terry M. *The Positive Theory of Public Bureaucracy*, edited by Moe, Terry M., edited by Mueller, Dennis C., Cambridge: Cambridge University Press, 1997.
- Mokyr, Joel. *Enlightened Economy: An Economic History of Britain 1700-1850*. New Haven: Yale University Press, 2012.
- Niskanen, W. A. "The Peculiar Economics of Bureaucracy." *American Economic Review* 58, (May 1968): 293-305.

- North, Douglass C. *Institutions, Institutional Change and Economic Performance*. Cambridge: Cambridge University Press, 1990.
- ——. *Understanding the Process of Economic Change*. Princeton: Princeton University Press, 2005.
- North, Douglass C. and Lance E. Davis *Institutional Change and American Economic Growth*. Cambridge: Cambridge University Press.
- North, Douglass C. and Robert P. Thomas. *The Rise of the Western World: A New Economic History*. Cambridge: Cambridge University Press.
- North, Douglass C., John Joseph Wallis, and Barry R. Weingast. *Violence and Social Orders: A Conceptual Framework for Interpreting Recorded Human History*. Cambridge: Cambridge University Press, 2009.
- Olmstead, Alan L. and Paul W. Rhode. "The "Tuberculous Cattle Trust": Disease Contagion in an Era of Regulatory Uncertainty." *Journal of Economic History* 64, no. 4 (Dec 2004): 929-963.
- ——. "An Impossible Undertaking: The Eradication of Bovine Tuberculosis in the United States." *Journal of Economic History* 64, no. 3 (Sep 2004): 734-772.
- ——. "Not on My Farm! Resistance to Bovine Tuberculosis Eradication in the United States." *Journal of Economic History* 67, no. 3 (Sep 2007): 768-809.
- Olson, Mancur. "Dictatorship, Democracy, and Development." *American Political Science Review* 87, no. 3 (Sep 1993): 567-576.
- ——. *The Logic of Collective Action: Public Goods and the Theory of Groups.* Cambridge, Mass: Harvard University Press, 1965.
- Ostrom, Elinor. *Governing the Commons: The Evolution of Institutions for Collective Action*. Cambridge: Cambridge University Press, 1990.
- ——. *Understanding Institutional Diversity*. Princeton: Princeton University Press, 2005.
- Peltzman, Sam. "Toward a More General Theory of Regulation," Journal of Law and Economics, vol. 19 (August 1976): 211-40.
- Poole, Keith T. and Howard Rosenthal. *Congress: A Political-Economic History*. New York: Oxford University Press, 1997.
- Riker, William H. The Theory of Political Coalitions. New Haven: Yale University Press, 1962.
- ———."The Herestethics of Constitution-Making: The Presidency in 1787, with Comments on Determinism and Rational Choice," *American Political Science Review* 78, No. 1 (March 1984): 1-16.
- ——. *The Strategy of Rhetoric: Campaigning for the American Constitution*. Edited by Randall L. Calvert, John Mueller and Rick K Wilson. New Haven: Yale University Press, 1996.
- Roider, Andreas. "Fisher Body Revisited: Supply Contracts and Vertical Integration." *European Journal of Law and Economics* 22, no. 2 (Sep 2006): 181-196.

- Schofield, Norman. *Architects of Political Change: Constitutional Quandries and Social Choice Theory*. Cambridge: Cambridge University Press, 2006.
- Schumpeter, Joseph A. *Capitalism, Socialism, and Democracy*. New York: Harper & Brothers, 1942.
- Shepsle, Kenneth A. *The Giant Jigsaw Puzzle: Democratic Committee Assignments in the Modern House*. Chicago: Chicago University Press, 1978.
- Shepsle, Kenneth A. and Barry R. Weingast. "Structure-Induced Equilibrium and Legislative Choice." Public Choice 37, no. 3 (1981): 503-519.
- ——. "The Institutional Foundations of Committee Power." *American Political Science Review* 81, no. 1 (Mar 1987): 85-104.
- Smith, Henry E. "Semicommon Property Rights and Scattering in the Open Fields." *Journal of Legal Studies* 29, No. 1 (January 2000): 131-169.
- Sokoloff, Kenneth L. and Stanley L. Engerman. "History Lessons: Institutions, Factor Endowments, and Paths of Development in the New World." *Journal of Economic Perspectives* 14, no. 3 (2000): 217-232.
- Stigler, George J. "The Theory of Economic Regulation," *Bell Journal of Economics and Management Science*, vol. 2 (Spring 1971): 3-21.
- Tullock, Gordon. *Toward a Mathematics of Politics*. Ann Arbor: University of Michigan Press, 1967.
- Voigt, Stefan. "The Economic Effects of Judicial Accountability: Cross-Country Evidence." European Journal of Law and Economics 25, no. 2 (Apr 2008): 95-123.
- ——. "Positive Constitutional Economics II A Survey of Recent Developments." *Public Choice* 146, no. 1-2 (Jan 2011): 205-256.
- Weingast, Barry R. and Mark J. Moran. "Bureaucratic Discretion or Congressional Control: Regulatory Policymaking by the FTC." *Journal of Political Economy* 91 (October 1983): 765-800.
- Williamson, Oliver E. *Markets and Hierarchies: Analysis and Antitrust Implications*. New York: The Free Press, 1975.
- ——. The Economic Institutions of Capitalism: Firms, Markets, Relational Contracting. New York: The Free Press, 1985.
- ——. "The New Institutional Economics: Taking Stock, Looking Ahead." *Journal of Economic Literature* 38, no. 3 (Sep 2000): 595-613.
- ——. "Transaction Cost Economics: An Introduction," in Peter Klein and Michael Sykuta, eds., *The Edward Elgar Companion to Transaction Cost Economics*, Cheltenham, UK: Edgar Elgar, 2008.