Law for a Flat World: Legal Infrastructure and the New Economy

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Abstract

In the last two decades, the economy has undergone fundamental transformation with the twin structural changes of a great increase in the size of global markets and the internet-driven development of a platform for global exchange and work processes. These changes have transformed the economic demand for law: the demand for legal inputs that will support the creation of value in economic relationships. Not merely the quantity but the type of legal inputs required by the new economy is significantly different from those required by the old economy. The economic demand for law in the new economy requires support for the much higher rates at which economic relationships now cross both firm and jurisdictional boundaries, the more rapid depreciation of legal solutions, the increased differentiation of legal problems, the reduced tolerance for legal transaction costs created by high velocity and global competition, and a greater need for integration of business and legal expertise in order to engage in the relatively constant innovative problem-solving that the new economy requires. In this paper I argue that our legal infrastructure—the socially available set of legal materials that economic actors can use to help govern relationships—has not kept up with this transformation in the economic demand for law. Empirical evidence for this claim includes the increasing levels of dissatisfaction in even the most elite corporate legal markets, the unprecedented impact of the Great Recession of 2009 on large law firms, and surveys and interviews conducted with corporate counsel. The primary basis for the claim of a mismatch, however, is theoretical: the attributes of our existing legal infrastructure—a heavy reliance on densely-worded and complex statutes, regulations and contracts; human-capital-intensive craft production methods; undiversified legal business models; almost exclusive reliance on mandatory legal rules imposed by public actors—are poorly suited to the nature of economic activity in the new economy. The reason our legal infrastructure has not adapted,
I argue, is attributable to an even deeper level of legal infrastructure: the severe limitations on who may produce legal rules and other legal inputs (such as advice, document templates, norms and practices) imposed by our continued reliance on publicly produced rules and the excessively closed nature of our lawyer-and judge-controlled legal markets.
Law for a Flat World: Legal Infrastructure and the New Economy

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Abstract

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1 Introduction

Thomas Friedman says the world is flat.1 As Friedman sees it, it was flattened by developments beginning with the fall of the Berlin Wall in 1989, running through the Netscape IPO in 1995, and culminating in the explosion of business tools (“workflow software”) and processes (“open-sourcing, outsourcing, insourcing, supply chaining and informing”) that enabled a ‘global

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1 Thomas L. Friedman The World is Flat: A Brief History of the Twenty-First Century (Farrar, Straus & Giroux 2005).
platform for collaboration.’

2 Professional economists, sociologists and anthropologists have bristled at Friedman’s claim, or at least the word ‘flat.’ Ed Leamer suggests that Friedman is really talking about the dramatic reduction in transportation and communication costs wrought by technological change and so “the world is small.”

3 Richard Florida says “the world is spiky,” pointing to the fact that whatever the gains are from the new technology, they are highly concentrated in a smattering of locations around the globe.

4 Roberto Gonzalez thinks the world is mostly unflat, and impoverished by whatever flattening there has been.

5 Ronald Aronica and Mtetwa Ramdoo say the world is “tilted” in favor of global corporations.

6 David Smick thinks the financial meltdown of 2008 demonstrates that in a globalized financial environment, “the world is curved”—as in curve-ball, as in blind curve, as in fundamentally unpredictable.

Flat, spiky, small, curved, tilted—whichever metaphor you prefer, it is clear that the world has been fundamentally transformed over the last two decades and that Friedman’s timeline is one with which many students of the new economy would agree. The fall of the Berlin Wall reflects political developments in the former Soviet bloc, India, and China that—by bringing nearly 40% of the world’s population out from under a communist economic regime—markedly increased the number of countries participating in global markets during the 1990s. Netscape’s IPO symbolizes the explosion of the interconnectedness of not only established market economies but also the vast and now rapidly marketizing economies of India, China and the rest of Asia. Global internet-based

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2 See id. at 6, 8, 48-173.


technologies have rearranged production, distribution and innovation through outsourcing and flexible global supply webs

For the first decade of these changes, economists focused heavily on the productivity gains generated by investments in a form of physical capital, specifically computers. Growth theorists began to wonder if the information technology of the ‘new economy’ had rendered the business cycles of the ‘old economy’ obsolete, promising continual productivity growth. Some critics of the view that the semiconductor had produced a dramatic transformation in the economy akin to the Second Industrial Revolution and the invention of electricity and the internal combustion engine, pointed out that the productivity gains of the 1990s came almost exclusively from the dramatic declines in the cost of computing power, with few productivity gains if any experienced outside of technology sectors and durable goods manufacturing.

But as the second decade of the transformation progressed, it became clear that information technology combined with dramatic increases in the global reach of the market economy had produced not merely substantial cost-savings in production, but a new platform for economic activity. By 2006, the National Academy of Sciences recognized that the productivity gains associated with information technology arise not merely from reductions in the cost of conventional production methods, but from a reconfiguring of how business is conducted:

Structural changes arise from a reconfiguration of knowledge networks and business patterns made possible by innovations in information technology. Phenomena, such as business-to-business e-commerce and Internet retailing, are altering how firms and individuals interact, enabling greater efficiency in purchases,

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production processes, and inventory management. Offshore outsourcing of service
production is another manifestation of structural changes made possible by new
information and communication technologies.\textsuperscript{12}

While the National Academy simultaneously noted that we have few hard measures with which
to assess claims (such as the compelling anecdotes that Thomas Friedman offers) about increasing
use of new business models such as offshoring, outsourcing, and global supply chains,\textsuperscript{13} a picture of
what the “new economy” looks like is clearly building. That picture is one of a web-enabled and
globally-networked economy that is knowledge-based, transaction-driven, high velocity, highly
fluid, highly differentiated, emergent—and increasingly hard to predict.

Has law kept up with this economic transformation? In this paper I argue that it has not and
that the reasons are deeply structural. More precisely, they are infrastructural. Although we have
recognized the need to build up new physical infrastructure to support economic transformation—
for example, the fiber-optic cables and wireless transmitters that connect internet servers and
devices—the need for new legal infrastructure has been almost entirely overlooked. But legal
infrastructure—by which I mean the legal resources available to individuals, organizations, and
regulators to help govern relationships—is critical to the support and regulation of the
transformations of the new economy. Legal infrastructure provides important intangible
connections—invisible bridges—between consumers, suppliers, investors, innovators, and
regulators. It includes the formal rules produced by courts and legislators but, more importantly, it
also includes the knowledge, practices, norms, and resources of legal practitioners: the solutions
and advice provided by lawyers; the procedures of courts and arbitrators; the contract templates
stored in public and private databanks; the shared beliefs about liability risks and optimal
strategies; the accumulated wisdom and biases of experienced advocates and adjudicators,
educators, and negotiators. Collectively these legal resources translate formal rules into actual

\textsuperscript{12} National Research Council of the National Academies, “Software, Growth and the Future of the U.S.
\textsuperscript{13} See id. at 22.
behavior and decision making by economic actors. They feed into the critical exercise of predicting and managing the content and behavior of economic relationships: Will a new product be threatened by liability claims from consumers or former employees or current collaborators? Will uncontrolled production levels threaten global climates and future economic prosperity? How costly will it prove to comply with regulatory requirements? Are the commitments from co-venturers or investors reliable? How will gains from trade be shared? Who will have access to our ideas before we recoup our investments? Will we make it from ‘here’ — a new product idea or strategy for expansion — to ‘there’ — profitability and growth, prosperity and well-being? If the legal infrastructure is weak or outmoded, the journey from ‘here’ to ‘there’ will be slower or more costly; we may not get there at all.

In what follows I look at how and why our legal infrastructure is outdated and ill-suited to serving the needs of the new economy. Fast-paced, global, niche-driven, and increasingly network-rather than firm-based, the economy today is poorly served by legal markets and institutions developed to meet the demands generated by an economy based on standardized mass-market manufacturing, predominantly domestic, markets, and production organized within rather than across firm boundaries. Today’s legal infrastructure, I argue, is too slow, cumbersome, and complicated (and hence too costly) to manage the explosion in the number and heterogeneity of legal relationships and regulatory settings that characterize today’s global web-based entities, facing shorter product (and strategy) lifecycles and fluid business models.

Although many contemporary observers of the legal profession, viewing in particular the extraordinary stress generated by the Great Recession of 2009, have emphasized the need for current legal practice to become more cost-effective through disaggregation or organizational restructuring (particularly downsizing) of law firms, the key problem, I claim, goes much deeper

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14 See, for example, Milton C. Regan Jr. and Palmer T. Heenan “Supply Chains and Porous Boundaries: The Disaggregation of Legal Services” forthcoming 78 Fordham L. Rev. (2010); Larry Ribstein “The Death of Big
into the nature of the solutions that our legal infrastructure offers and is attributable to our excessive reliance on non-market methods of producing legal resources. These methods leave law—on the books and in practice—disconnected from the on-the-ground realities of a dynamic global economy. In the system developed over the last century, legal rules and regulations governing the economy are produced by legislatures and government bureaucracies. They are interpreted, elaborated, and implemented by judiciaries and juries according to procedures developed by lawyers and judges. The practices and expertise of legal practitioners are honed within the bounds of an insulated profession that faces little competition, controls access and education, and determines what, where, and how legal goods and services can be offered.

While these may be appropriate methods, still, for producing the political elements of law—the elements that govern the rights and processes of democratic communities—they are poorly adapted to producing the essentially economic inputs that legal infrastructure supplies to entrepreneurs and enterprises, consumers and regulators. Figuring out how to tailor and manage a complex set of relationships at lower cost with higher predictability and a better fit with private and public objectives, is a problem that markets are better than law makers at solving. Markets are far from perfect and need appropriate structure to coax solutions that serve not only business but also public goals. But they are essential instruments in information processing and problem-solving in dynamic and differentiated settings—the world in which we now live.

In Section 2 I analyze how the new economy is transforming the economic demand for law—not merely by altering the quantity of legal inputs required to support economic activity but, more significantly, by altering the type of legal inputs required. In Section 3, I introduce the concept of legal infrastructure and consider the evidence that suggests that there is a substantial mismatch between what is being demanded of law and what law is actually providing. This evidence includes
reports of high levels of client dissatisfaction with legal services, even among those corporate clients who can command the best the market has to offer; indications of unprecedented dislocations in legal markets wrought by the Great Recession of 2009; and interviews with general counsel in leading innovative firms. I then examine the dominant characteristics of modern American legal infrastructure. In Section 4, I argue that a principal reason for our legal infrastructure’s failure to respond adequately to meet the demands of the new economy can be traced to an even deeper level of legal infrastructure—specifically the legal rules and institutions that govern how legal inputs are produced. These rules and institutions render the production process for law excessively public and insulated from market pressures and thereby prevent the adaptation of our legal rules. Section 5 provides concluding observations.

2 The New Economy and its Transformation of the Economic Demand for Law

In a modern market democracy, law performs many functions. It secures a reduction in violence and generates social order. It protects rights and the achievement of democratic goals such as fairness, equality, and autonomy. It promotes substantive human aims such as the alleviation of suffering or sustainable energy use. And it structures and regulates a market economy. It is on this economic function—as distinct from the political or democratic functions—that I want to focus here. Even more specifically, I want to focus on how the attributes of the new global web-based market economy change what is needed from law in order for it to fulfill its economic function—promoting economic productivity, innovation, efficiency, and fair distribution.

From the vantage point of its economic function, we can think of law as a supply of relational services—economic inputs that produce value by helping to structure and regulate relationships among economic actors and between economic actors and communities. Contracts, for example, supply commitment services: establishing a basis for confidence that an economic counterpart will act in a particular way in the future, thereby supporting the incentive to cooperate with and rely on that counterpart. Property rules establish boundaries on the resources that can be secured for private use and those that must be shared with others, establishing the basis for claims to the value created by resources. Liability rules create relational claims on the resources of others to distribute losses. Securities regulations supply information and obligations that support the willingness of investors to participate in a broadly-based and largely anonymous set of transactions. Employment laws adjust for bargaining inequalities that may shift too many of the costs and too few of the benefits onto workers. Environmental regulations overcome the implications of free-rider relationships that threaten to produce too many of some goods (such as consumer products and travel) and too few of others (such as open space and clean air).

The economic demand for law is thus a demand for legal inputs that will support the creation of value in economic relationships. The demand may arise to secure private benefits such as supporting commitment in a strategic alliance or achieving cost-effective regulatory compliance. Or it may arise to secure public benefits such as internalizing pollution externalities or overcoming collective action problems in maintaining quality or interoperability standards. In the former case the demand is likely to find expression through market actors. In the latter case, demand is expressed through actors who are at least in part coordinated through collective entities such as trade associations, community groups, public interest organizations, and governments.

Law is obviously not the only source of economic relational services. Commitment services, for example, are also supplied by social norms of trust and market responses to a reputation for reneging. The motivation to participate in collaborative innovative problem-solving—as Yochai
Benkler, among others, has emphasized—arises not only from the economic incentive of a property interest secured by patent or copyright but also from generalized reciprocity, repeat play incentives in markets or networks, fellow-feeling, curiosity, and the satisfaction obtained from peer recognition of the quality of an idea or solution. But, as researchers have discovered in the open-software setting for example, even systems that rely heavily on non-economic incentives and norms depend on some measure of legal structure—such as the creation of a legally-recognized organization capable of defending the commitment to democratic governance and commons-based copyright licensing terms. Even with an expanded scope for exchange based on non-economic norms, a robust market economy clearly demands substantial legal structure to address the basic issues posed by economic cooperation and exchange—commitment, risk-allocation, cost and value sharing, dispute resolution, and so on.

Transformations in the economy are transforming the economic demand for law by shifting the structure of economic relationships and hence the problems actors need to solve in order to achieve their private and public goals for economic cooperation and exchange. These transformations are best seen if we compare two stylized pictures: the prototypical ‘old’ economy firm and the prototypical ‘new’ economy firm. I do not claim that all firms ever have or ever will match these stylized pictures; rather my claim is that by focusing on these stylizations we can see more clearly how what the ‘new’ economy needs from law differs from what the ‘old’ economy needed. I turn to these stylized pictures next.

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2.1 What’s ‘new’ about the new economy?

Start with the ‘old’ economy. The ‘old’ economy is the managed economy that emerged at the turn of the last century, spurred by the technological advances of electricity, national railroads and telegraph systems. It is characterized, in Alfred Chandler’s account, by the large managerial enterprise engaged in mass production on a national level. This is an economy marked by standardization and massive returns to scale in production, the world of General Motors, U.S. Steel, AT&T, and, eventually, IBM. It is an economy of consolidation and vertical integration, the absorption of economic activity in entire industries within the walls of a handful of, maybe a single, corporation. It is an economy built on the establishment of large-scale capital markets and the separation of ownership and control. While engaged in international trade, it is nonetheless a national economy. In large measure it is governed at the federal level by agencies and statutes beginning with the Interstate Commerce Commission (1887) and the Sherman Act (1890), aimed principally at containing the abuse of monopoly power.

The prototypical old economy enterprise is a large, integrated firm—schematically we can represent it as a box, as economists we represent it as a black box. Inputs from suppliers such as raw materials, intermediate goods, labor, and financial capital come across the boundary of the firm, are transformed internally via a production process into goods and services, and then sold across the boundary of the firm to buyers. As captured by the work of Ronald Coase and Oliver

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21 Id. at 486. See also Alfred D. Chandler Jr., *Scale and Scope: The Dynamics of Industrial Capitalism* (The Belknap Press of Harvard University Press 1990) (examining the growth of “managerial capitalism” globally).
Williamson, transactions that cross the boundary of the firm are managed by contract; those within
the firm are managed by hierarchical fiat and managerial discretion. The firm effectively owns
and controls the entire production process taking place within its walls: research and development
and product innovation occur within the firm; decisions about how much to invest in technology
and how to allocate capital and labor to different aspects of production occur within the firm;
distribution and sales mechanisms are controlled within the firm. Moreover, there is scale and
stability in the firm’s choices about the optimal allocation of inputs, the optimal level of technology,
and the optimal pricing and distribution of products. We can talk meaningfully about “the”
production process, output, and pricing decisions of the firm, treating them as stable over a
significant period of time. Technological change is capitalized in the choice of a durable production
process. Regulation of the firm’s activities in the old economy is largely exercised at the boundaries
of the firm—limiting size, taxing output, ensuring competitive or fair terms in employment and
sales contracts, controlling cross-border flows of physical goods, and so on. The representative
firms are national manufacturers like G.M. and Dupont, producing and selling the great majority of
their output domestically.

The “new economy,” in contrast, begins with twin structural changes that have made economies
fundamentally global. The first is the extension of world markets into the former communist or
otherwise closed economies of the Soviet Bloc and Asia, notably China and India. Political changes
culminating in the fall of the Berlin Wall in 1989, India’s economic reforms in the wake of near-
bankruptcy in 1991, and China’s 15-year progression to membership in the WTO in 2001
dramatically increased the scale of world trade and economic activity. As Lester Thurow notes,
until the transformations of the last two decades, nearly 40% of the world’s population lived under

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22 See, e.g., Ronald Coase, The Nature of the Firm, 4 Economica 386 (1937); Oliver E. Williamson, Markets
and Hierarchies: Analysis and Antitrust Implications 3 (1975); Oliver E. Williamson, Economics and
a communist economic regime. The impact of opening markets continues to accelerate.

Domestically, imports and exports have almost tripled as a share of U.S. GDP since 1970, from a little over 10% to almost a third of all goods and services purchased or produced in the U.S.

Worldwide, total trade has increased significantly: the average share of country GDP attributable to exclusively domestic production was nearly cut in half in just a seven year period (1998 to 2005), from 25% to 14%. In the same time period, total foreign direct investment globally grew in real terms 22%. The number of treaties almost doubled, from 292 to 583.

The second structural change that transformed national into global economies was the explosion of information technology, and specifically the internet. Worldwide, internet users as a percentage of domestic population grew from an average of 7% in 1998 to 29% in 2005. Even more strikingly, in the same time span the percentage of countries with internet usage rates below 10% fell from 70% to 25%. In 1998, usage rates higher than 30% were rare (5% of countries)--and the top rate was 40% (Norway). By 2005 usage rates above 30% were common (40% of countries) and the top rate was 76% (Sweden). (Usage in the United States grew from 30% in 1998 to 66% in 2005.)

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23 Lester Thurow, Fortune Favors the Bold, supra note 8, (2005) p.27.
24 Bureau of Economic Analysis, National Economic Accounts, National Income and Products Accounts (NIPA) Table 1.1.10 available at http://www.bea.gov/national/nipaweb/TableView.asp?SelectedTable=14&ViewSeries=NO&Java=no&Reques t3Place=N&3Place=N&FromView=YES&Freq=Year&FirstYear=1970&LastYear=2009&3Place=N&Update=U pdate&JavaBox=no#Mid.
26 Id. Data for 1998 were adjusted to 2005 dollars.
27 Id.
28 Id.
29 The Foreign Policy globalization data for 1998 is based on 62 countries, accounting for approximately 82% of world population.
30 Id.
31 Id.
32 Id.
33 Id.
These structural changes, collectively described as “globalization,” are transforming the organization of innovation, production, and distribution in fundamental ways. The internet is not merely a means of communicating; in its “Web 2.0” version it is also a platform for organizing work. With shared databases; videoconferencing; networking sites with upload capabilities for video, documents, and images; peer-to-peer networks; collaborative tools such as wikis; and virtual meeting spaces such as chat rooms and online meeting facilities, the economy is becoming increasingly internet-based, not merely in terms of transactions, such as sales, but more fundamentally in terms of how work is organized. Thus the globalization we are witnessing is not just an expansion in conventionally conceived international trade in goods; it is a restructuring of production processes across national boundaries. Employees and contractors may be located anywhere and work together in a virtual space. Drawing on “cloud computing,” the computer infrastructure of a corporation can be located anywhere. Services, and goods connected to local production and distribution systems, can be delivered anywhere.

In the new economy, the prototypical economic enterprise is no longer a box; it is a network. Its boundaries are increasingly indistinct. As a consequence, production and distribution are much more heavily influenced by network externalities than at the old economy firm—for which the economies of scale and scope dominated. In the new economy enterprise, the transaction, rather than the firm, is primary—and not merely, as Ronald Coase and Oliver Williamson first emphasized, to determine the boundaries and behavior of the firm. Yochai Benkler and Don

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34 Tim O'Reilly, publisher of O'Reilly media and sponsor of what many think was the first conference under the banner of "Web 2.0" defines it as "the business revolution in the computer industry caused by the move to the internet as a platform." \[http://radar.oreilly.com/archives/2006/12/web-20-compact.html\]. It doesn't involve any new technology for connection but rather a shift in how the technology is deployed.


Tapscott have both painted vivid portraits of the capacity in a web-based economy to break
productive activity down into potentially minute components or transactions and then network
those components to produce economic output.38 with their accounts of citizen-reporters updating
on Slashdot or YouTube, NASA click-workers mapping craters on the moon, thousands of
independent software engineers writing code, and far-flung geologists collectively discovering
gold.39 These transactions might be organized by and between identifiable firms, but they might
also generate a completely independent, self-organizing, and emergent entity. Similarly, the
characteristics of what is produced by the new economy enterprise can be emergent (bottom-up)
rather than designed (top-down).40 The characteristics of social networks demonstrate this:
Facebook and YouTube have characteristics invented by their users, not their planners.

The new economy enterprise is also heavily focused on the production, exchange, and control of
information as a good in itself, not merely as a parameter of production choices. The introduction
of information technology has accelerated the reach and impact of the transformation in production
methods spurred initially by the advent of “lean manufacturing” and specifically the importance of
information flows between engineers, line personnel, sales staff, and so on to reduce down-time,

38 Yochai Benkler, Coase’s Penguins, or, Linux and the Nature of the Firm, 112 Yale L. J. 369 (2002); Yochai
Benkler, Sharing Nicely: On Shareable Goods and The Emergence of Sharing as a Modality of Economic
Transforms Markets and Freedom (Yale University Press 2007); Don Tapscott & Anthony D. Williams,
Wikinomics: How Mass Collaboration Changes Everything (Penguin Group 2006). See also Don Tapscott &
Art Cranston, Paradigm Shift: The New Promise of Information Technology (1993); Don Tapscott, The Digital
Economy: Promise and Peril in the Age of Networked Intelligence (1997).

39 See sources cited supra note ___ Yochai Benkler, “Coase’s Penguins, or, Linux and the Nature of the Firm”
of Sharing as a Modality of Economic Production” 114 Yale Law Journal 273 (2004); Yochai Benkler The
Wealth of Networks: How Social Production Transforms Markets and Freedom (2007). Don Tapscott and
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Digital Economy: Promise and Peril in the Age of Networked Intelligence (1997).

40 For discussions of Web 2.0, user-led and open innovation, see Eric von Hippel Democratizing
Innovation (MIT Press 2005), Henry W. Chesbrough, Open Innovation: The New Imperative for Creating and
Profiting from Technology (Harvard Business Press 2005), and John Hagel III & John Seely Brown, The Only
Sustainable Edge: Why Business Strategy Depends on Productive Friction and Dynamic Specialization
decrease required inventories, and improve coordination. 41 Today these methods are seen in deeply integrated electronic relationships in a wide variety of industries, many of which cross the boundaries of the firm. 42 With deep inter-firm integration of information systems comes deep inter-firm integration in innovation, production, and distribution. 43

Unlike the stable old economy firm—the one that conventional economics can safely treat as having chosen “a” production process, output level, and price—the new economy firm is fundamentally flexible and dynamic. It has to be to respond to a high velocity and high novelty environment. Speed of response, and change across markets more generally, is partly a result of how quickly information travels about the shortcomings of a new product or the potential for a different partner, business model, or production process. It is also a result of the expanded stage on which competition takes place—with more minds competing to solve the same problem or differentiate products. Some of the speed-up in work is attributable to changes in expectations about how quickly tasks can be completed—the bane of the beeper and the Blackberry. Some is due to improved logistics in shipment and delivery, which allow for shorter times to market. 44 Some is due to the modular transaction-driven organization of economic activity, which implies that there is greater potential for a piece of a production process or distribution system to shift without requiring that the economics justify a change in the whole. And technology makes speed possible and sometimes unavoidable: Internet connections are always on. Somewhere the markets


42 The phenomenal success of Walmart, for example, is significantly attributable to the information systems Walmart implemented to exchange information read from check-out scanners, and soon smart shelves and goods with RFID tags, directly between retailer and supplier. Justin R. Watkins, Comment, Always Low Prices, Always at a Cost: A Call to Arms Against the Walmartization of America, 40 J. Marshall L. Rev. 267, 273-74 (2006) (citing John Dicker, The United States of Wal-Mart (Penguin Group 2005) and Don Soderquist, The Walmart Way (Thomas Nelson 2005)) (explaining how “Walmart, Inc.’s tremendous success in the retail and grocery markets has as much to do with its use of technology as its maniacal devotion to everyday low prices”)


are open. Bloggers never sleep. As a result, the new economy firm is called upon to constantly evaluate and respond.

The new economy enterprise is also involved in a much more highly differentiated set of products, processes, and relationships than the old economy firm. Mass market consumer goods are still with us but so too now is the “long tail” of niche markets, facilitated by global online markets and lower-cost logistics and delivery systems. Product heterogeneity also results from the global diversity of buyers. On the supply side, increasing returns to knowledge generates heterogeneity among economic actors: specialization becomes indispensable as the level of expertise needed to comprehend an aspect of a technology, business environment, or transaction increases. This also means that accomplishing economic tasks often requires assembling a team of contributors with different areas of expertise and relationships in the new economy frequently involve parties with substantially different levels of specialized knowledge. Vertical hierarchies in the organization of work may be collapsing, but horizontal differentiation is building.

In summary, where the prototypical old economy enterprise is fixed and stable—with identifiable boundaries—the prototypical new economy enterprise is dynamic and fluid—its boundaries indistinct. The old economy firm trades products across its boundaries—inputs from suppliers, outputs to buyers—and is regulated at its boundaries. The new economy firm is deeply networked and highly integrated at the transaction level with a web of suppliers, consumers, regulators, investors, researchers, and so on. The old economy firm is domestic. The new economy firm is global. The old economy firm makes its decisions in a relatively stable and insulated environment, with uncertainty coming in the form of exogenous shocks. The new economy enterprise makes its decisions in a constantly changing and open environment; uncertainty is

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46 For an analysis of this implication of technological progress, see Benjamin F. Jones, The Burden of Knowledge and the ‘Death of the Renaissance Man’: Is Innovation Getting Harder?, 76 Rev. of Econ. Stud. 283 (2009).
pervasive. The old economy firm is planned; the new economy enterprise is reactive and emergent. The old economy firm is a box; the new economy firm is a network. The old economy firm is G.M. The new economy enterprise is Google.

2.2 How the new economy is transforming legal demand

The changes associated with the new economy are transforming the demand for law. I mean by this more than a straightforward increase in the volume of legal work as a result of the expansion of the scale and complexity of the global market economy.47 What the new economy enterprise needs from law is not just more of what the old economy enterprise needed; it needs things that are different: less complex and costly ways to secure a complex fluid relationship, for example.48 When I speak of the transformation of legal demand, then, I am speaking of the ways in which the services law is called upon to provide are altered by transformations in the underlying relationships law structures. It is in this sense that the new economy demands not merely ‘more’ but ‘different’ from law, at both the level of the transaction and the level of the market. In this section I identify several distinctive features of the economic demand for law in the new economy.

Firm boundary-crossing

The relationships of the new economy cross the boundary of the firm far more frequently than was the case in the old economy.49 This transforms the role of contracting. Although I know of no

47 See Marc Galanter, Planet of the APs: Reflections on the Scale of Law and its Users, 53 Buff. L. Rev. 1369 (2006). Galanter estimates that between 1978 and 2003, expenditures on legal services (including in-house and government services) grew more than four-fold, from approximately 0.5% of GDP to approximately 2.25%. Gross receipts of U.S. law firms increased 649% from $22.15 billion in 1967 to $166.1 billion in 2002 (both figures in 2000 dollars.) Id. at 1378-79.


49 See Gilson, Sable, & Scott, Contracting for Innovation: Vertical Disintegration and Interfirm Collaboration, supra note 48, at 494-501; Bengt Holmstrom & John Roberts, The Boundaries of the Firm Revisited, 12 J. Econ. Persp. 73, 80, 84-86 (1998) (noting that “there seems to be something of a trend today toward disintegration, outsourcing, contracting out, and dealing through the market rather than bringing everything under the umbrella of the organization” and providing a number of examples); Anna Dubois,
formal efforts to count this, there is probably an absolute increase in the number of contracts when functions within the firm are disaggregated and contracted-out and as the number of entities with which the firm collaborates increases. But even if the count of contracts is unchanged—if every outsourcing contract in the new economy enterprise, for example, is replacing an employment contract in the old economy firm—the complexity of the contracting problem and the demand for contracting services clearly increases dramatically when transactions are shifted across the firm boundary. Employment contracts are relatively thin and standardized, addressing largely risk-insulated compensation issues but leaving much of the authority to control the employee’s day-to-day activity to the employer’s discretion. The commercial relationships that substitute for employment relationships when economic activity shifts across the firm boundary, in comparison, are likely to be far less standardized and to involve more extensive attention to the evolution of behavior and information exchange. They are likely to attempt to coordinate expressly among transactions that within the firm are coordinated through managerial discretion. And they are likely to attend to, as Ron Gilson, Chuck Sabel and Bob Scott have emphasized, agreements about goals and information-sharing—as opposed to express behavioral constraints—as they attempt to structure a fluid and dynamic collaborative relationship. All of this entails a deepened demand for the legal inputs that structure contractual relationships.

*Jurisdictional boundary-crossing*

The demand for contracting inputs is further deepened when many more relationships also cross jurisdictional boundaries. Although the managerial economy of the past century also involved extensive international trade in manufacturing inputs and final goods, the globalization of the new economy significantly increases the extent to which economic activity flows across borders, often in...
intangible ways. Jurisdiction-crossing relationships are generally subject to greater uncertainty in enforcement under current institutions and methods, as the determination of which laws apply to the contract, the diversity in legal procedures in different legal systems, and the complex rules governing when foreign orders (to seize assets to enforce a judgment, for example) come into play. Moreover, cross-border transactions acquire complex, hard-to-judge legal elements when they involve extensive exchanges of information and collaboration on product development and integrated logistics. More complex legal questions make variation in the legal procedures and principles in different legal systems a source of greater heterogeneity and uncertainty in predicting the content of legal obligations.

Jurisdictional boundary-crossing also increases the complexity and heterogeneity of regulatory relationships. Web-based collaboration among employees scattered across the globe implicates employment and tax regulation by multiple jurisdictions in hard-to-disentangle ways, as well as trade and immigration issues when team members travel to meet in person. Globally available products and services delivered over the internet—such as YouTube, Firefox, Google, or eTrade—simultaneously enter multiple regulatory environments governing consumer transactions, advertising, intellectual property, privacy and so on. Databases that collect and providers that host data from several countries, located in servers in several (perhaps other) countries, and accessed by users in several (perhaps still other) countries are subject to numerous, easily conflicting database regulations.

**Rapid depreciation and obsolescence of legal solutions**

The higher velocity of the new economy implies that particular legal solutions have a higher rate of depreciation and obsolescence. Rapid technological change and more fluid transactional

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53 See id. at 29-33.
relationships that are responsive to shifts in competitive advantage on a global scale can make a particular contract, compliance or regulatory strategy outdated within a shorter period of time than was the case in the more stable and slower-moving managerial economy. This expands the demand for legal inputs as the number of points at which legal analysis and problem-solving are potentially required increases. It also shifts the relative value of adaptable as opposed to fixed solutions, calling for greater emphasis on dynamic as opposed to static legal analysis.

**Increased differentiation of demand**

The greater degree of heterogeneity in the new economy also implies a more differentiated demand for legal solutions—although not necessarily a demand for more differentiated legal documents or regulations. This arises from the customization of products or services themselves, higher rates of experimentation with different types of relationships, and the heterogeneity of legal settings encountered by global, and shifting, relationships.

**Lower tolerance for legal transaction costs**

Even old economy firms can find legal transaction costs to be too high relative to the value delivered. But new economy firms are likely to have even lower tolerance for legal transaction costs because of multiple pressures. To begin with, enhanced global competition can decrease profit margins. Structurally, the fact that new economy firms are in more settings that require contractual and regulatory compliance analysis and creativity, with greater heterogeneity and more rapid depreciation of particular solutions, implies effectively that firms need more but can afford to pay less. Compare, for example, the tolerance for contract drafting costs that attends the design of a sales contract or a human resources employment policy when these solutions can be standardized, implemented firm wide, and expected to work effectively for a long period of time, with the tolerance for those same costs when there is no such thing as a standard product, employee teams are spread across 10 countries, and nothing is expected to remain the same for very long.

**Greater demand for integration of legal and business expertise**
As the number, complexity, and heterogeneity of legal relationships in which a firm is involved increases, so too does the value of legal inputs that are expertly informed about the firm’s business goals and environment. In an economy with high levels of standardization, we can expect legal solutions to effectively capitalize knowledge about the business or regulatory considerations that, for example, a sales contract or employment policy needs to address. Individual lawyers don’t need to understand as much about why the standard approach includes this clause or that practice. But the lawyer who is designing a contract or practice for a novel or niche setting needs to understand more deeply the relationship between a particular solution and the environment in which the client firm or regulator is operating. Similarly, the lawyer who is trying to predict how legal relationships will evolve over time or how they will interact with other legal relationships or legal institutions (such as courts or regulators) requires, in a more complex legal environment, greater knowledge of the economic environment, because the conventional judgments that are capitalized in legal norms and cultures will be less accurate.

3 Meeting legal demand: the inadequacy of our legal infrastructure

The legal materials available to meet the economic demand for law include the set of legal rules and principles in a given setting—the forms of property that are recognized and protected against theft or unauthorized use, the regulatory limits on economic activity, the elements required to create a binding contract, and so on—but they go far beyond the set of laws on the books. They include, for example:

- the formal and informal elements of procedure for invoking or challenging the enforcement of rules—such as civil procedure and evidence codes, as they are in fact implemented on the ground.
- the norms and practices of legal advising, and the costs and quality of legal advising.
- the standard forms and collected contract templates available in legal databases, and the procedures and rules that govern access to those databases.
- the accumulated conventional wisdom about regulatory and dispute-resolution strategies.
• the stock of knowledge accumulated by legal practitioners through formal education, trade publications, conferences, patterns of training and expertise, and anecdotal experiences.

These features of the legal environment influence the cost and efficacy of any particular legal solution that might appear on the books, and they affect the likelihood of learning about and deploying such a solution. They are inputs to an economic output, namely the structuring of a particular economic relationship.

The set of materials or inputs that are deployed in developing solutions to legal problems make up what I call our legal infrastructure. This infrastructure provides the base on which the new economy enterprise, and its regulators, must build solutions to the challenges of achieving the public and private goals of economic activity in a rapidly changing world. In this section I first develop the concept of legal infrastructure and characterize the dominant elements of our legal infrastructure. I then defend the claim—drawing on some empirical evidence but mostly theoretical argument—that our existing legal infrastructure is inadequate to meet the transformed legal demands of the new economy.

3.1 The concept of legal infrastructure

Like other uses of the concept of infrastructure, I intend by legal infrastructure to refer to a form of socially available capital that produces a stream of services at a cost lower than the cost of producing the asset itself. By socially available, I mean that it is (more or less) widely available to participants in a society, not merely to those actors who produce the asset. The boilerplate that accumulates in repeated contracts and is picked up by lawyers drafting instruments for their clients, for example, is an element of legal infrastructure. The more widely available that boilerplate is, and the better adapted it is to achieving the goals of later users of it, the more valuable it is as infrastructure. The experience an attorney accumulates in negotiating regulatory positions with a federal agency is also an element of legal infrastructure, as are the professional norms for how best to manage a client seeking to achieve particular goals. Differences in legal
infrastructure are evident as we move around the globe—lawyers in Germany, for example, are likely to draw up shorter contracts than American lawyers for a similar transaction; in doing so they draw on differences in accumulated documents, experiences, practices, and procedures.54

Note that this notion of legal infrastructure goes beyond the content of formal legal rules to include the various things produced privately by the legal effort exerted by lawyers, legal publishers, legal educators and legal consumers. It also includes the more informal products of formal lawmakers such as regulators, legislators, and courts. Legal infrastructure is thus the accumulated stock of what legal actors—broadly defined—produce. It is largely a by-product of performing legal work for a particular economic relationship. Individualized work becomes capitalized in a durable mechanism—shared experience, documents, patterns of procedure, and so on—and thereby socially available in the sense that it contributes value to the structuring of future, often completely unrelated, relationships. Legal inputs are thus intermediate goods: they are the output of the legal sector and used as inputs in other sectors.

The concept of infrastructure here is related to the concept of “social capital” but distinct from it. Sociologists and political scientists have varying definitions of “social capital” but they tend to converge on the idea that there are resources embedded in social relationships and networks—concrete resources, such as information about job opportunities, and intangible resources, such as trust and norms of reciprocity—that support the achievement of individual or cooperative objectives.55 I conceive of legal infrastructure as a set of resources that can perform a similar function—supplying contractual obligations to support reliance, for example—but distinguish it


from the set of relational resources derived from extra-legal norms and materials. In practice, it will of course often be difficult to discern the boundary between legal and extra-legal resources—between “trust” and “contract”, for example. But there is a distinction and it is helpful to maintain it in order to focus on the resources generated by a recognizable legal system. These too might be informal norms—an informal norm of compliance with a contract obligation even when the threat of formal court enforcement is not credible, for example—but they are clearly linked to the distinguishing features of what we call “law”.

Like the classical forms of physical infrastructure—highways, railways, electric power grids, telephone lines—and the critical infrastructure of the information economy—the internet—legal infrastructure “lies beneath” the economic relationships it helps to structure. It also displays most of the distinctive features of infrastructure:

- **Embeddedness.** Infrastructure is “sunk” into, inside of, other structures, social arrangements and technologies.
- **Transparency.** Infrastructure is transparent to use, in the sense that it does not have to be reinvented each time or assembled for each task, but invisibly supports those tasks;
- **Reach or scope.** This may be either spatial or temporal—infrastructure has reach beyond a single event or one-site practice.
- **Learned as part of membership.** The taken-for-grantedness of artifacts and organizational arrangements is a *sine qua non* of membership in a community of practice. Strangers and outsiders encounter infrastructure as a target object to be learned about. New participants acquire a naturalized familiarity with its objects as they become members;
- **Links with conventions of practice.** Infrastructure both shapes and is shaped by the conventions of a community of practice.
- **Embodiment of standards.** Modified by scope and often by conflicting conventions, infrastructure takes on transparency by plugging into other infrastructures and tools in a standardized fashion.
- **Built on an installed base.** Infrastructure does not grow *de novo*; it wrestles with the ‘inertia of the installed base’ and inherent strengths and limitations from that base.
- **Becomes visible upon breakdown.** The normally invisible quality of working infrastructure becomes visible when it breaks; the server is down, the bridge washes out, there is a power blackout. Even when there are back-up mechanisms or procedures, their existence further highlights the now-visible infrastructure.

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56 And indeed as Ron Gilson, Chuck Sabel and Bob Scott have recently argued the two may be deeply interdependent See Gilson, Sabel, & Scott, *Braiding: The Interaction of Formal and Informal Contracting in Theory, Practice and Doctrine*, supra note 48.

Unlike classical physical infrastructure such as a railway, however, legal infrastructure is not an engineering project that can be designed and built by a public or quasi-public entity to meet projected demand. It has some engineered elements—most notably, the formal laws and regulations enacted by legislatures and agencies. But these engineered elements are only a small part of what is ultimately a fundamentally organic and emergent entity. Most of what constitutes the set of legal materials available to support an economic relationship forming at a point in time is the uncoordinated product of myriad legal actions—contracts drafted, legal arguments made, decisions reached, strategies tested—taken by a wide diversity of actors at an earlier point in time.

Using the concept of ‘infrastructure’ to characterize the wide variety of tangible and intangible inputs that law and legal actors provide to support the creation of value in economic relationships allows us to draw on the visual imagery of a publicly provided network that connects individuals, entities, and systems in order to facilitate their interaction. Highway systems, telephone cables, the internet—these familiar components of infrastructure enable A to deal with B. A society with good infrastructure provides this backbone for interaction as a public or quasi-public good (possibly charging access fees or tolls) to the economy at large. Similarly, the legal infrastructure that exists at any given time in a society provides potential legal connections that can facilitate or increase the value of economic relationships between members of the society. A robust legal infrastructure is one that is well-adapted to meeting the needs of the economic relationships actors seek to form, providing these relational services with cost-effective levels of quality.

3.2 Missing bridges and roads: the problems of legal infrastructure

One of the characteristic features of infrastructure is that it is largely invisible, until it breaks down—at which point it rapidly shifts to figure from ground: the bridge collapses, the lights go out,

58 Newer forms of infrastructure, notably the internet, also display this organic and emergent quality. For example, analysts of cyberinfrastructure increasingly emphasize the relational quality and development of this infrastructure. See Star and Ruhleder, supra n. –– pp. id. 112-13; and id. p. 7.
the garbage collectors go on strike. Here what we see is the absence of something we have come to take for granted. Documenting shortcomings in existing infrastructure—not the bridge that goes out but the roadway that was never built—is much more difficult; even more so when the nature of the connection is as yet uninvented, maybe even as yet unimagined. Prior to the deregulation of the airline industry, for example, no-one had predicted the hub and spoke system that quickly emerged after deregulation. No-one before 1978 would have been able to demonstrate empirically that what was ‘missing’ in air transportation infrastructure were the elements of a hub and spoke system. Similarly, no-one can predict what will replace Google searches five years from now but we will not be at all surprised to discover that something will and that there will be elements of cyberinfrastructure that are now ‘missing’ or underdeveloped.

It is thus a tall task to demonstrate that our existing legal infrastructure is inadequate and failing to meet the demands of the new economy. Certainly there are no, and probably can be no, formal empirical tests of this proposition—just as there are no tests of the alternative hypothesis (that many participants in the legal system likely maintain) that the system is responding well, as well as can be expected, to demand. The evidence we have is largely anecdotal and, ultimately, rests on appeals to theory. Those who believe the system is working well emphasize the (uncontested) fact that our best lawyers are very smart, work hard, and can be hired at fees that our most successful corporations can afford. They appeal to the competitiveness of legal markets to support the claim that if there are legal inputs that new economy enterprises need to support their endeavors then these legal markets will produce it. My response in this section is, first, to point to the partial and anecdotal evidence we have of gaps between demand and supply. I then, in the

59 Id.
60 See Elizabeth E. Bailey “Air-Transportation Deregulation” in John J. Siegfried (ed.) Better Living Through Economics (2010) at 196 (noting that “almost immediate transformation of airline networks from linear point-to-point systems created by the CABG into hub-and-spoke networks” was an “unanticipated aspect of airline deregulation”). Thanks to Preston McAfee for this example.
following sections, shift to my primary focus: the theoretical reasons we have for believing that these gaps exist and are significant.

**Dissatisfaction with legal markets**

Grumbling about law and lawyers is nothing new. But as Marc Galanter has documented, although lawyers have long been vilified, dissatisfaction with lawyers and the legal system became widespread and increasingly hostile beginning in the 1970s and 1980s. Much of this dissatisfaction is found among those who are (or perceive themselves to be) the targets of legal enforcement—such as the doctors who spearheaded the tort reform movement beginning in the mid-1970s. But increasingly, dissatisfaction has extended to those who arguably command the best law has to offer: the large corporate clients who secure the services of the largest and most prestigious law firms, populated with elite law graduates.

Some of the dissatisfaction with legal markets that corporate clients express is undoubtedly driven by the substantial increases in legal costs over the past decade. Total receipts in law firms rose a whopping 41% in nominal terms, roughly 23% adjusted for inflation, in just five years between 2002 and 2007. The California Bar Journal recently reported that “a survey by the Corporate Executive Board found that large-company spending on law firms grew by 49 percent between 2002 and 2005.” Much of this increase appears to come from increasing fees, not hours. Although reliable industry-wide data on average hourly rates is hard to come by, there is

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some evidence that hourly rates in top law firms have been increasing at roughly this rate since the late 1990s. Firms reporting data to the American Lawyer Magazine (which generates the AmLaw 200) indicate that between 1999 and 2005 the average “low” billing rate for partners and associates increased 18-20% in real dollars; the average “high” billing rates increased 28-30%. And the Corporate Executive Board survey noted above also found that “while non-law firm costs increased by 20 percent over the past 10 years, large law firms’ prices jumped almost 75 percent in the same period.” Average profits per partner increased 50% in real terms from 1999 to 2005.67

The cost of legal procedures is also increasing rapidly. The advent of e-discovery, for example, is driving up the cost of litigation. In one estimate, revenues to e-discovery firms were $2.7 billion in 2007, and projected to reach $4.5 billion by the end of 2010.68 A senior partner with a large Los Angeles firm reports that in a recent bid on major litigation the bid for e-discovery services was approximately $20 million; the bid for attorney services was $4 million.69 The average cost of patent litigation where $25 million or more is at stake has grown from approximately $4 million in 2003 to approximately $5.5 million in 2009—an increase of almost 40% in nominal terms, 18% in real terms.70 As the Association of Corporate Counsel noted in a recent publication introducing its new “Value Challenge” initiative, the “stunning” finding by the Corporate Executive Board that over the past decade large law firm prices have increased by 75%, almost four times the 20% growth in non-law firm costs, “confirm[s] the disconnect most if not all of us have been feeling.”71

The concern about cost and fee increases has recently increased the pressure on law firms to come up with more cost-effective ways of organizing work. Mitt Regan and Palmer Heenan, for

67 Data on file with author. The AmLaw data collection does not ask for information about what proportion of total hours at the firm are billed out at the “high” and “low” rates—or intermediate rates.
69 Private communication.
71 Association of Corporate Counsel, ACC Value Challenge Briefing Package (available at http://www.acc.com/valuechallenge/upload/Value-Challenge-Brief_112909.pdf)
example, have recently explored the pressure on large law firms to increase their use of outsourcing and disaggregation of legal services to reduce costs. Whether increasing disaggregation of conventional legal tasks—outsourcing document production and review and legal research, for example—will lead to cost reductions is unclear (arguably, disaggregation of tasks in litigation, for example, with document review 'outsourced' to armies of junior associates and electronic discovery vendors has increased, not decreased, the costs of litigation73) but in any event cost reduction alone does not seem to be at the heart of the deeper problems facing legal markets. As the ACC's initiative—which includes the development of an index rating the performance of law firms74—reveals, the concern with costs bespeaks a much more basic concern with the value of what legal expenditures accomplish.75 As lawyers frequently will point out to their corporate clients, legal fees are still only a fraction of the value of the deals that lawyers help to structure or the potential liability risks that lawyers help firms to avoid. But industry survey data suggests that large corporate clients perceive a substantial gap between cost and value—the so-called "value proposition." In the 2009 Altman Weil Chief Legal Officer Survey, for example, half of the respondents gave a response of "6" or higher when asked how much pressure, on a scale of 0 ("no pressure") to 10 ("intense pressure"), corporations were putting on law firms "to change the value proposition in legal service delivery (as opposed to simply cutting costs)." When asked how serious they thought law firms were about changing the value proposition, nearly three-quarters answered

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73 The billing of junior associate hours on discovery and due diligence document review, for example, that has spurred some corporate clients to refuse to allow junior associates on their litigation teams—suggesting that the work has been judged to be of too low value when completed by disconnected suppliers. Similarly, electronic discovery services seem to have increased, not decreased, the cost of the discovery phase of litigation. Regan and Heenan advert to these integration concerns when they note that increasing disaggregation of tasks requires additional efforts at re-integration into a final product and that lawyers, traditionally, have not shown expertise in project management. Id. at pp. 36-38.

74 See id. at 6.

75 See id. at 1.
“4” or less. Forty percent said they intended to reduce their use of outside counsel in 2009— following reductions of 26% in 2008 and 16% in 2007.76

Even more telling is a 2006 survey conducted by the BTI Consulting Group.77 This survey of 250 corporate counsel at large and Fortune 1000 firm (24% of the Fortune 100) found substantial levels of dissatisfaction with law firm providers. Sixty-eight percent said that they would not recommend their primary law firms to others; 61% had replaced a primary firm within the past 18 months. Until 2005 the one or two firms identified as “primary” accounted for half of a company’s expenditure on outside counsel; that share fell to 30% in 2006. Low satisfaction with performance resulted in companies hiring more “secondary” firms, increasing from an average of 7 firms accounting for 30% of total expenditures in 2004 to 15 firms accounting for 50% in 2006. This suggests significant dissatisfaction with premier providers. Moreover, the dissatisfaction was not based on cost but rather on a failure of what the study calls “client focus”: understanding of and responsiveness to the client’s needs and business and a demonstrated ability to help the company achieve business goals. As BTI puts it: “True client focus demands the ability to frame legal issues in [the] context of [the client’s] business and industry.”78 Asked what they would advise law firms to do to earn the company’s business, 25% of corporate counsel respond “demonstrate exceptional client focus,” another 50% appeal to other factors that reflect an ability to work in a high-value way with the client. Only 2% cite “lower rates” as the way to earn work. Client statements in the report emphasize that the problem is understanding the nature of the client’s business circumstances and problems. Law firms should “develop an understanding of our business and business strategy and

76 Altman Weil Inc. 2009 Chief Legal Officer Survey The Opinion of Chief Legal Officers on Issues of Importance, 5, 11,14 (2009) available at http://www.altmanweil.com/dir_docs/resource/b8420fda-5d98-42a5-af27-45aec7c9b177_document.pdf. The Altman Weil survey is based on 183 responses from Chief Legal Officers of corporations, 62% of which have annual revenues of over $2 billion; 68% have annual legal budgets (inside and outside counsel) in excess of $5 million. Id.


78 Id. at 33.
stay focused on those, rather than on legal issues solely,” says one in-house lawyer at a Fortune 500 pharmaceutical firm; “A firm with client focus would have awareness of how their advice would affect the broader business,” says another from a Global 500 investment bank.79

Comparable results were recently found in an academic survey conducted by Michelle Beardslee, John Coates, Ashish Nanda, and David Wilkins at Harvard Law School. Although not focused directly on surveying client satisfaction, their study of 166 corporate counsel at large corporations found that 80% had reduced the work given to a preferred provider between 2003 and 2006; 88% reported that the reason for doing so was a failure of quality or responsiveness to the company’s needs. Cost was not mentioned as a factor leading to reductions in work.80

There is reason to think that a failure in the legal industry to understand and respond to business needs is also behind some of the stunning changes in legal markets wrought by the Great Recession of 2009.81 Law firms for the first time in 2009 engaged in widespread layoffs of attorneys, deferred the hiring of entire classes of new law school graduates, and substantially reduced their recruiting of future classes. Several firms have announced that they will move away from lock-step compensation to merit-based compensation models. Although calls for alternatives to the hourly fee have been around for at least a decade,82 in 2009 for the first time clients have successfully required law firms to absorb more responsibility for producing value, with fixed

79 Id.
annual and project budgets. Unlike in earlier recessions, when law firms were effectively recession-proof—able to shift from working on the transactional matters that boom in good times to the bankruptcy and litigation matters that (used to) boom in bad times—law firms in this recession have simply found themselves facing lower demand. This is consistent with the survey findings reported above indicating dissatisfaction with the quality of product delivered by legal markets, and in particular the value of legal work to achieving bottom-line business objectives.

The sense that law providers just ‘don’t get it’ was also a pervasive theme in a small set of interviews I conducted with General Counsel in innovative firms in Silicon Valley in 2006-2007. These interviews were open-ended responses to the question, “ow does the existing legal system help and how does it hinder innovative activity?” Putting flesh on the bones of what it means to say that outside legal counsel lack sufficient “focus” on the client’s needs and business, those I interviewed gave dramatic examples of what they simply couldn’t find in our existing legal infrastructure. Harvey Anderson of Mozilla put this point starkly:

Our lawyers just don’t know what we do, how a business like this works. There’s a massive DNA gap. I want lawyers who will come spend time here, getting to know how this business works, what we need and what we don’t. I have a hard time getting outside counsel to take up my offer.

Kent Walker of Google emphasized the difficulty he faces getting transactional lawyers—both inside and out—to focus on overall deal value, and not contract language per se. Lawyers, he notes, are rewarded for the contracts they complete but not for the deals that they save or increase the value of by showing restraint in negotiation and drafting. He can see that some deals, for example, can get by just fine with only a few pages of contract language; but he finds that when he sends those few pages to lawyers outside the company or on the other side, he invariably finds that they send back several more. “Never, in ten years,” he says, “has a dispute ever turned on the precise

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83 Pfizer, for example, with an annual legal budget of $1.5 billion, announced in 2009 that it would no longer pay any of its attorneys on an hourly basis. This followed earlier policies which prohibited the use of first and second year associates on their matters. See No More Baby Steps, LegalWeek, Jan. 21, 2010; Nathan Koppel & Ashby Jones, Billable Hour Under Attack – In Recession Companies Push Law Firms for Flat Fee Contracts, The Wall Street Journal, Aug. 24, 2009, at A1.
language of a non-disclosure agreement, for example. Yet we still spend lots of time dickering about these things.” Anderson of Mozilla similarly bemoans the transactional frictions generated by a mismatch between contracting efforts and an understanding of the business value of contracting. “The business guys work things out and then we all have to stop for a few hours (or more) while the lawyers haggle over language and documents that everyone knows will be largely obsolete and unhelpful in short order,” he says. Living in the soup of open-source software at Mozilla, Anderson wonders why we haven’t seen the development of open-source standards for contracting.

Some of the misplaced attention to legal detail—beyond what is required to achieve business objectives—can be attributed to professional tunnel vision: when all you have is a hammer, everything looks like a nail. But some can also be attributed to pervasive difficulties among lawyers when it comes to thinking about business risks. Jonathan Anschell of CBS Television told me that too often lawyers walk into every meeting on a new venture saying “are you sure you want to do this? It’s very risky.” “What they don’t seem to understand,” Anschell says, “is that we have no choice but to move forward. These markets are fluid, they’re changing all the time and we can’t afford to be hanging back waiting for the uncertainties to shake out. What we need are lawyers who know how to manage risk, not avoid it.” He gives as an example what you would think would be an easy problem for a lawyer seeking to give CBS what it wants to solve: drafting terms of use for CBS content online. Surely the answer is to put out a set of terms that locks up CBS’s ownership over its content? Not so, says Anschell: “We’re looking for lawyers who understand that in the world of new media if we lock it down, we don’t get the kind of user-generated content we need. But when we tell lawyers that they come back with the polar opposite—a set of terms that is a user’s dream but a content-provider’s nightmare. We need something in between these two extremes, but we find it very hard to locate the providers who know how to think about that.”

Mark Chandler at Cisco Systems Inc. emphasized a different kind of disconnect from underlying business realities. He recounted the story of Cisco’s litigation with a Chinese competitor that Cisco
believed had violated its intellectual property rights. Early in the process his elite outside litigators recommended filing various pre-trial motions. Will we win those motions, Chandler asked? Probably not, came the answer, but those motions will help us educate the judge about the issues. Chandler’s worry: “This lawsuit was all over the news the day it was filed. If we lost those motions the headlines the next hour would read, ‘Cisco loses first round to competitor.’ That creates real problems with our investor community.” Cisco is looking for a litigation team that has expertise in thinking about strategy beyond the courtroom but, Chandler says, it’s a challenge to find that.

There is another form of fragmentation and compartmentalization in legal services that the General Counsel with whom I spoke identified as a problem for them. This is the fragmentation of expertise within law itself across jurisdictional lines. Mitch Gaynor of Juniper Networks spoke to me about the difficulty he has finding integrated legal providers who can help this smaller (but, now at $3.5 billion in revenues, hardly small) firm to deal with a complex world. “What the market [for legal services] doesn’t seem to understand is that firms like ours are global from Day One. We have folks working in teams all across the globe the day we start up. We simply don’t have the resources to acquire local legal experts in all these places.” Gaynor would like to turn to a single provider to help make sure he’s in compliance with the laws in all these jurisdictions but he finds he has no option but to turn to a “patchwork of providers.” Driven by regulatory limitations on the practice of law that have made each local state or country bar a monopoly, the market simply does not offer deep expertise in how to manage compliance in multiple jurisdictions. Even a mega-company like Google—which at one point was also a “global from Day One” start-up company—finds itself unable to purchase outside expertise in managing the kind of ‘wicked’ compliance problem that it faces when it introduces a product like YouTube into over 100 countries around the globe, each with its own laws on privacy, intellectual property, defamation, national security and so on. Google built its solutions in-house. But, Google Associate General Counsel Ramsey Homsany says, “it would have helped to build on others’ experiences and frameworks for that—we’d like to be able to find
someone who’s done more than one of these, who’s seen things we haven’t seen. But that just
doesn’t exist out there across countries and regions. So we have to do it largely from scratch.”

Although the evidence is partial, these survey results and anecdotes suggest that there are
substantial gaps between what our legal infrastructure is providing and what the new economy is
demanding from law. The problem is not one that can be met through the kind of cost-reductions
that can be squeezed out with outsourcing or rearrangements of the organizational structure of
conventional legal practice. Reducing the cost of processing millions of documents by using
contract lawyers, cheaper associates, offshore services or electronic data analysis can only
compress the cost so much; the real economic mismatch lies with a legal ‘solution’ that requires
review of millions of documents in the first place. That problem, the problem of mismatch, lies in
the incentive structure facing legal markets and their capacity to generate significant innovations in
the solutions law offers. A review of the dominant attributes of our legal infrastructure and the
materials it provides for solutions to the legal problems faced by the prototypical new economy
enterprise provides another basis on which to ground the claim that our legal infrastructure is
doing a poor job of supporting the new economy.

3.3 Where we are today: attributes of our legal infrastructure

In this section, I set out the dominant characteristics of our existing legal infrastructure. In the
next section I then explore how those characteristics impede the ability of the legal system to meet
the economic demand for law in the new economy. Note that my goal here is not to be exhaustive
and clearly there is diversity in the legal materials and processes available, even within the U.S.
But it is possible to develop a stylized snapshot of the legal infrastructure that a business in the new
economy will confront.

Document/text-based rules

Although I emphasize that legal infrastructure consists of large quantities of inputs that are not
legal rules, rules nonetheless are the fundamental organizing structure of legal work. And one of
the most salient features of the legal environment for the new economy entity is that it is awash in a high volume of document-based rules. The business of an economic entity is affected by local ordinances and by state and federal regulations and statutes, both domestic and foreign. These are found embedded in a large set of documents, some but not most of which will be easily located and searched online. Regulations can and do cover every detail of how the business is operated: employment practices, taxes, workplace health and safety, pricing, advertising, managerial conduct, manufacturing standards, disclosures to investors, consumers, the government and the general public, environmental practices, and so on. Another potentially large set of documents containing rules governing the conduct of the business will be found in agreements that the business has entered into: supply contracts, loan agreements, corporate by-laws, investor deals, partnership agreements, employment contracts, intellectual property licenses, joint venture arrangements, agreements with governments or citizen associations, etc. Still further rules—and essential information for the interpretation of the rules found in other documents such as legislation or contracts—are found in judicial opinions from multiple court systems.

In the modern American setting, these documents have distinctive features, relative to other settings and periods in history. In particular, the documents tend to be long, highly-detailed and densely worded. The health care legislation originally proposed in the Senate in 2009, for example, contained 107,000 words; the House bill 167,000 words. By way of comparison, the first major piece of federal regulation, the Interstate Commerce Act of 1887, contained 5800 words; it took around 15,000 words to spell out a major piece of New Deal legislation establishing the welfare state—the Social Security Act of 1935; and even in the renewed regulatory environment of the 1970s, the Clean Air Act required “only” about 19,000 words. The number of pages in the Federal

Register in 1949 was 19,335; by 2005 the total had reached 134,261. 

Anecdotally at least it is widely believed that American business contracts are longer and more detailed than their European counterparts. 

Judicial opinions have grown increasingly lengthy and dense—often footnoted—over the last several decades. U.S. Supreme Court opinions averaged on the order of 760 words in 1800 and 2,129 words in 1951; today's average is roughly 4300 words. In 1960 the average federal appellate court judge produced 86,000 words a year; by 1993 he or she produced 112,000. 

The U.S. Court of Appeals for the D.C. Circuit, which is the premier court hearing federal administrative cases, went from an average of 5.9 pages per opinion in 1965 to 12.4 pages in 1985.

The wordiness of the American legal landscape, however, does not imply that determining the content of legal rules and relationships is simply a matter of plowing through ever larger volumes of detailed text. Equally salient is the fact that the language in legal texts is often difficult to interpret. This is so for at least two reasons. First, legal language is esoteric, and indeed, increasingly so. While it has long been the case that legal language has functioned as a sublanguage which must be learned and is often not intelligible to lay persons, growing specialization within

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92 For a discussion, see Veda Charrow, Jo Ann Crandall & Robert Charrow, Characteristics and Functions of Legal Language, in Richard Kittredge & John Lehrberger, Sublanguage: Studies of Language in Restricted Semantic Domain (1982). The authors emphasize that the difficulty laypersons have in interpreting legal language (such as jury instructions) is due not only to the use of specialized vocabulary, but also non-standard grammar and syntax. Id.
legal practice\textsuperscript{93} makes skilled interpretation of many legal documents the province of only a sub-set of lawyers.

Second, legal language is frequently—deliberately—indeterminate. Interpretation of a legal document is not merely a matter of communication; it is a pragmatic prediction about the content and consequences of a legal relationship that will play out in adversarial settings. Even ‘plain’ language is subject to creative argument and reframing; most legal language leaves a significant margin for different interpretations in context. Interpretation thus depends on a host of variables beyond linguistics: a body of caselaw, the likelihood of being able to produce admissible proof, judicial ideology or discretion or competence or attention, the beliefs and practices of other practitioners, etc. It also depends on the unpredictable turns of reasoning that can arise in a system of open, contestable reasoning committed to remaining susceptible to a previously unknown interpretation of, for example, words such as ‘negligent’ or ‘reasonable’ or ‘material’.

**Human capital intensive craft production**

Legal services are characteristically provided on a craft model: the legal situation facing an individual client is evaluated by an attorney or team of attorneys on an individual basis and an individualized strategy or plan is developed and implemented. Lawyers rely heavily on acquired experience and personal judgment in assessing the likely content and consequences of a legal relationship. Research materials are almost exclusively textual and legal in nature, requiring human capital intensive analysis. There is little systematic and quantitative data either available or put to use in developing legal advice or documents. There is little use of automated or computer-

based methods to produce or deliver legal inputs, such as the predicted effect of different contract clauses or compliance strategies.

The craft model of production results in high degrees of variability in legal advice and strategy. But it also produces high degrees of standardization in documents. Standard practice for producing contract documents, for example, is to mark up ('redline') a document developed for a previous deal or relationship—obtained from a client’s own files, a law firm’s shared precedents, or an online database. As a leading guide to contract drafting puts it: “In contract drafting, plagiarism is a virtue.”94 Linguists have described the resulting style as “frozen.”95

All of these features also add up to legal processes that, because of high human capital requirements, are high cost and generally quite slow, requiring significant inputs to achieve a result. This is evident in the review and negotiation of transactional documents; it is even more evident in litigation.

Undiversified production models

The complexity of the legal landscape has contributed to the increasing levels of specialization in legal practice: few lawyers involved in providing large-scale business services are generalists, as they were several decades ago.96 This specialization, however, is not unique to law: increasing specialization is evident in many economic sectors. What is distinctive about law is the extent to which the sector as a whole is cordoned off from other economic activity, resulting in a lack of diversification in both knowledge and financial structure.

94 “A lawyer drafting a contract should always try to start with a form designed for the kind of transaction involved.” Charles M. Fox, Working with Contracts: What Law School Doesn’t Teach You (2d ed.) 42 (Practising Law Institute 2008)


With the (important) exception of inhouse counsel (approximately 8-10% of the profession\textsuperscript{97}), almost all lawyers work in all-lawyer environments where they are exposed to the ideas and problem-solving techniques of people with their same training and intellectual orientation.\textsuperscript{98} Legal training is largely homogeneous: lawyers are trained in effectively identical law schools with the same curriculum and methods. Lawyers have little expertise in industry or business decision-making and have similar levels of risk-aversion, particularly as compared to business actors.

A lack of diversification also characterizes the organizational form in which some 80% of lawyers practice, the exclusively lawyer-owned and financed law firm\textsuperscript{99}. Almost all firms have the same pyramidal structure: senior partners who have direct (and generally personal and portable) relationships with clients\textsuperscript{100} with lower tiers filled with more junior attorneys, some on a (shrinking) path to partnership, others on a contract basis.\textsuperscript{101} There are few collaborative enterprises that merge legal expertise with other business expertise. The business model of the firm must be exclusively financed by withheld profits and bank loans, cutting innovators off from large-scale capital markets, private equity, and third-party financing and insurance. This lack of financial diversification limits the risk-bearing capacity of the firm, a factor that probably limits the capacity to move away from per-lawyer effort-based billing (whether based on tightly-monitored hours, as is the norm today, or loosely guess-timated “services rendered”, as was the norm in the mid-20\textsuperscript{th} century) to project- or product-based billing. It also may account in part for the high levels of risk aversion we see in legal practitioners more generally.

\textsuperscript{97} American Bar Association, Lawyer Demographics, available at http://new.abanet.org/marketresearch/PublicDocuments/Lawyer_Demographics.pdf.
\textsuperscript{99} Lawyer Demographics, \textit{supra} n. 106.
\textsuperscript{100} Professional ethics rules adopted in almost all jurisdictions prohibit a law firm from requiring lawyers to sign a non-compete agreement which would prevent lawyers from taking clients when they leave a firm. \textit{See e.g.,} ABA Model Rules of Professional Conduct Rule 5.6.
**Mandatory publicly-produced rules**

The rules governing the conduct of a company or organization and available to it for structuring its business dealings are the product of government actors: legislators, regulators and judges. This means that a business entity surveying the landscape is not in the market to purchase rules but rather must largely taken them as given. At best, the business entity can try to influence the public rule production process through lobbying efforts.

The rules produced by these public actors are by and large mandatory and their applicability to given conduct is not a matter of choice for the affected entities. There are important exceptions, however. Actors generally may choose which state law will govern their contracts, for example. They may choose to have their disputes determined by a private adjudicator applying consensual rules and procedures rather than a public judge following mandatory procedures. Corporations may choose the state of their incorporation, separate from the choice of where they locate their operations. There is little scope, however, for choosing which regulatory or liability regime will apply to business activities, short of controlling (generally the location of) the conduct that may trigger the exercise of jurisdiction by a potential regulator or court system.

Once framed, a given legal question is generally subject to the exclusive authority of only one rule maker, even if that authority is contested in practice. With the potential for claims to be framed as legal questions in multiple ways, however, the capacity to impose mandatory rules on a particular business activity or event is frequently fragmented and overlapping. Legal claims that impact a given activity can be stated under multiple federal and state statutes and regulations or common law: the fact that a federal court has turned away an action under the federal Sherman Act for example, does not eliminate the potential for antitrust actions under state statutes or common law.
law claims for unfair competition or fraud; a tort decision under California law does not bind a
court adjudicating a tort claim for the same conduct under New York law.102

3.4 The mismatch between legal infrastructure and emerging legal demand in the new
economy

We’re now in a position to better understand the complaints we hear in interviews and surveys of
corporate counsel. These clients—with the best chance, compared to government and consumer
clients, of getting what they want from the legal system—are complaining about potholes, missing
bridges, and circuitous routes in the legal infrastructure on which they depend to obtain results for
their companies. Using the analysis above we can see the reasons to believe that the problems they
are identifying are systematic and widespread, and not merely the result of blips in their local
markets for legal inputs. In this section I re-visit the problems the GCs I spoke with raised in light of
what they indicate about the nature of legal demand in the new economy and the legal
infrastructure available to meet that demand.

Kent Walker of Google and Harvey Anderson of Mozilla both spoke about the problem of
“transactional friction” and in particular the time and money seemingly wasted on producing what
they perceived as too many and excessively long contracts and other business documents. While
such a complaint may seem mundane, there is reason to believe that their special emphasis on this
is rooted in the innovative new economy environment in which they operate. Google and Mozilla
are on the leading edge of the explosive demand for legal support for relationships that cross firm
boundaries in the global networked economy. Moreover, the relationships that cross these
boundaries are far from standardized; although they may well possess repetitive elements such as
the need to protect confidential information or to make clear the limited scope of a relationship,
they are fundamentally heterogeneous. These are relationships that are likely to be highly fluid,

102 Robert Kagan presents a detailed picture of how multiple federal, state and municipal regulatory
agencies, along with federal and state courts, generated a tangled web of litigation and regulatory process
that delayed by several years the dredging of the harbor in Oakland, California to accommodate larger
responding to a high velocity environment, and dealing with complex and highly uncertain emergent products and processes.

The lower tolerance for the conventional solution to contracting problems that Walker and Anderson express is easily understood in light of the several differences between their legal demand and that of the old economy firm, especially the prototypical mass-market manufacturing firm. They cannot afford substantial resources to develop a new solution for each such relationship and they generally do not have the scale in individual types of relationships to justify the investment in detailed individualized contract design. Nor do they expect the relationship to stay the same for very long, further reducing the fixed investment they can afford for a given stage in a relationship. Nor can they be confident about the dimensions of the relational issues they may face or the capacity to reduce those dimensions to contractual language that secures expectations: so many of their relationships are about products and processes that display high degrees of novelty and constantly-shifting complexity. These attributes are poorly suited to the conventional contractual environment Google and Mozilla face. Existing standardized contracts are ill-suited to the heterogeneity of these relationships and the high-end craft model of contract customization is too expensive for relationships that are high volume, constantly evolving, significantly intangible and complex. The conventional legal response to complex contracting problems is complex contracting—detailed, expensive, dense.103 But as Anderson’s musing about open-source contracting standards reveals, the need is for the kind of simple yet powerful, elegant, and intelligent solutions that his colleagues in software development generate to solve their complex programming problems.

The legal infrastructure available to firms like Google and Mozilla, however, is poorly equipped to respond to their demand for legal support for their firm boundary-crossing relationships. It

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103 For example, Julie Martin, Associate General Counsel at Mozilla, recounted to me recently having heard about a 70 page document created to structure a $5000 deal.
offers a population of providers who rely heavily on replicating prior documents to produce new
documents. This is a process that produces upward drift in verbiage and contributes to the “frozen”
character of legal documents. It is also a process that truncates the development of expertise in
fundamental contract design; today’s lawyers are expert at analyzing and modifying existing
contract documents but not at analyzing the fundamentals of a contractual relationship and
designing a contract from the ground up. Even if Walker develops an in-house staff with
expertise in simpler, innovative contracts he resides in a world of adversarial legal relationships in
which providers on the other side are likely to be wary of the strategic implications of departing
from convention, or who simply have not developed this alternative expertise. A single provider of
a contractual solution retained by both parties is unheard of (but not unimaginable).

Nor are there providers who can bring to bear the kind of massive data-analysis that Google
itself has innovated for its own products or the open-source networks that Mozilla generates to
churn out software modules that can be used to perform repetitive programming tasks. There is no
data to which Kent Walker can point to ground his intuitive judgment that the extra pages or the
time that might be spent tweaking contract language costs a lot more than it’s worth, much less a
less human-capital-intensive data-based service that can design the appropriate legal structure for
an exploding set of relationships. If Harvey Anderson wants to make use of open-source contract
modules that cheaply and intelligently resolve repetitive issues in his transactions, Mozilla will have
to produce those as well.

Both Anderson and Walker also point to a deeper and more subtle obstacle to meeting their
contracting needs with existing legal infrastructure: what Anderson calls “the DNA gap. By this he

104 Anna Trosborg, *Introduction to Laying Down the Law—Discourse Analysis of Legal Institutions*, 23 J.

105 In addition to the anecdotal evidence of this, John Coates study of the use of takeover defenses in IPOs
provides systematic evidence that lawyers adopt contract terms based not on the fundamentals of an
economic relationship but rather their custom. His data show that differential adoption of takeover defenses
is not explained by underlying issuing firm characteristics but rather by the practice location of the lawyers
means the relatively low understanding of the nature of his business that he finds among legal professionals. This is a natural result of the highly specialized nature of legal practice and the almost cloistered settings in which it is practiced. The knowledge, culture, and language that lawyers acquire are the knowledge, culture, and language of law, not business—this separates lawyers from the other providers of specialized business inputs such as marketing executives, accountants, finance people, and product development engineers. This disconnect starts at the educational level—lawyers in law school, the rest in business school—and continues for the great majority of lawyers throughout their careers.

Those who work in in-house legal departments are better equipped to acquire a deep understanding of the needs and processes of business entities—but even then, as Kent Walker’s comments suggest, there are substantial limits. Walker notes the difficulty of giving even his in-house lawyers—who scoot around the playground that is Google alongside the software engineers and business folks—the right incentives in contract design. We have the knowledge and systems in place to reward, and penalize, lawyers for legal results—the contract that is signed, the lawsuit that exploits an ambiguity in contract language—but not for business results—the deal that was missed or made less valuable by too many words or belabored negotiations. Some of these features appear to induce excessive risk-aversion among lawyers: it is not just that lawyers are taught to see the potential problems, it is that if things go wrong ex post because a contract provision is open to an unhelpful interpretation or missing entirely, the lawyer is dinged for the failure. This happens even if the ex ante choice to stick with simple language or less expensive contracting methods was the right bet to take. But the lawyer is not easily rewarded for the cases that didn’t bark and so overreacts to even small risks of failure. Structurally, because of the organization of legal work and expertise, lawyers bear the downside risks asymmetrically with the upside risks of more targeted, cost-effective lawyering. Better risk analysis requires data analysis—which existing legal markets
don't do—and risk distribution—which limitations on the diversification of financing and
ownership of legal providers restrict.

Jonathan Anschell's experiences at CBS Television reflect similar limitations on the nature of the
legal inputs CBS can secure from the existing legal infrastructure. He too talks of a shortfall in what
outside counsel understand about the nature of the fast-moving and inherently risky and inchoate
deals the company has to pursue. The fact that even at the highest levels of the corporate bar
attorneys are predominantly oriented to emphasize risk avoidance makes searching and paying for
the exceptional lawyer who has developed expertise in managing risk in ambiguous settings a
burden. Although business managers no doubt differ in their success in risk management, it would
be striking indeed if risk avoidance were the norm rather than the exception in that profession.

Lawyers have long been tagged with conservativism, of course. And a conservative role has
long been seen as largely appropriate: lawyers identify risks, business managers choose which risks
they want to take and how they want to manage them. What's different in the new economy? To
some extent what is new is the scale and centrality of risk, driven in particular by the importance of
knowledge and innovation, and the exposure of so much more of a firm's operations to the risks
inherent in a cross-boundary relationship between independent actors as opposed to one found
within a hierarchy ultimately governed by fiat from the top. To some extent it is the shift from
quantifiable (and insurable) risk—what will happen to input prices in this market? Will demand
for this (mass-produced) product continue to grow or decline?—to the unquantifiable uncertainty
and ambiguity generated by high rates of novelty, network connectedness, more diverse and
numerous competitors, and emergent business models and products. And to some extent what’s'
new, compared to the more stable, standardized managerial economy, is the pervasiveness of law—

106 See Audretsch & Thurik, What's New about the New Economy? Sources of Growth in the Managed and
Entrepreneurial Economies, supra note 18.
both in private cross-boundary and cross-jurisdictional relationships and in public multi-jurisdictional relationships.

Together, these changes make the role of the lawyer one that, to be valuable, must be immersed in the process of structuring, analyzing and responding to an ever-changing relational and regulatory terrain. Risks in this environment cannot be compartmentalized. The need is for relatively constant dialogue between legal expertise and business expertise and, particularly, co-creation of innovative legal structures to adapt to changing business circumstances and knowledge.

This is what Anschell is also reporting when he describes CBS’s difficulty finding lawyers who know how to design a relational structure and not merely present a choice between two polar variants of a terms-of-use agreement: the standard terms that maximize ownership and control and the standard terms that maximize use and access. This disconnect between business needs and what is offered by legal providers is not (just) attributable to a system based on adversarial contract development and contract drafting through replication of prior standardized models. It is the product of a system that compartmentalizes legal expertise in a world where novelty and fluidity dominate. If a lawyer does not deeply understand a client’s business model and environment, he or she cannot design a novel structure that is not just an incremental adjustment to an existing standard. Nor can the business managers involved, innovate a structure without deep knowledge of the legal tools, limits, and implications. Just as the creation of an innovative business model for CBS, Google or Mozilla must be the product of fine-grained collaboration between software engineers, marketing experts, finance experts, and other business professionals, so too must the creation of an innovative legal structure be the product of fine-grained collaboration between ‘law’ and ‘business.’ Law in a dynamic business setting must be deeply integrated into the
“DNA” of the business itself, and that DNA is wired for uncertainty and risk. The segregation of legal and business expertise in our existing legal infrastructure stifles that integration.

Mark Chandler’s anecdote about Cisco’s litigation with a Chinese competitor demonstrates another aspect of the frustrated demand for integration of legal inputs with other professional inputs. In our existing legal infrastructure it is up to Chandler and his colleagues to integrate the advice about litigation strategy they receive from top-notch outside litigators with concerns about the impact of the litigation on investors, the media, or other strategic goals. But just as Chandler, who oversees a massive legal department, relies on outside expertise about litigation strategy, so too would he like to be able to buy expert advice that integrates litigation strategy with communications or operations strategy.

The narrowly legal focus of outside counsel could be a sign of an appropriate division of labor: in-house counsel accumulate and coordinate the expertise on the business side needed to integrate these expert legal inputs into an overall business strategy. But what the General Counsel at the innovative firms I spoke to are emphasizing—what lies beneath the widespread dissatisfaction with the ‘client focus’ of outside counsel found in the BTI study—is a demand to shift more of that integration outside of the firm. That is, the task of integrating legal advice with business expertise and other strategic considerations is no longer something that is so easily (if it ever was) done internally. This is consistent with what we know about the changes in the new economy: the

107 For similar conclusions see, e.g., Beverly A. Lyman, *Crafting a Patent Strategy in a Changing Environment*, 2010 WL 4466, at *20 (2010) (“My advice to business is to integrate the patent lawyer into business discussion as much as possible. . . . Patent lawyers cannot be just technically and legally focused. They must appreciate how the business will be affected and they have to see the business end of things, how it is going to play out down the road. Business strategy includes a realistic valuation of what any patent is worth in a changing market. The more lawyers know, the better they can obtain the best possible results.”); Michael C. Cook, *Key Changes in Health Care Law Policies – And Upcoming Responses*, 2009 WL 4023554, at *8 (2009) (“In the coming years . . . [c]lients will place a premium on lawyers who they can consider to be strategic business partners, who will work with others to integrate solutions, who can see the big picture of their clients’ businesses and strategies, and who can quickly respond . . . . This will require understanding our clients’ businesses sufficiently to gage whether, if you push a button and make a decision in one area, you can predict and advise how it may affect other areas and also longer-term implications.”).

108 See supra text accompanying note Error! Bookmark not defined..
deepened complexity and novelty of multiple business decisions—about new products, new partners, new business models, new finance models—calls for more collaborative participation in problem-solving from a wide spectrum of experts. Decisions in a complex high velocity environment are not as easily compartmentalized. The burgeoning dimensions of business problems are not additive, they are multiplicative, non-linear. The expertise has to be delivered around the table, not over the transom. I suspect the oft-heard complaint about problems with lawyer’s ‘communication’ with their business clients is not the mundane type of communication that can be solved by providing more frequent emails and reports. It is the substantive type of communication—are you engaged in an ongoing and rich conversation with us about what you think and what we think?

The fragmentation of legal inputs goes even deeper than the compartmentalization of ‘legal’ and ‘business’ expertise. Even within the ‘legal’ category, expertise is balkanized. Take Google’s issues with YouTube, for example. To begin with, the regulations governing online video (obscenity, privacy, copyright, defamation etc.) are produced in multiple, separate but overlapping jurisdictions in political and administrative processes that it can do little to manage. The conventional method of controlling exposure to regulatory regimes—control over the geographical distribution of a product—is effectively unavailable for a product delivered over the internet. There are few mechanisms available for choosing a regulatory regime. So any solution needs to integrate legal expertise across multiple jurisdictions. But this exposes the problem to a second form of fragmentation: legal expertise is sold in geographically segregated markets. Most countries (and all states in the U.S.) substantially restrict the provision of expertise about local law to providers (lawyers) who are admitted to practice locally. In-house lawyers avoid these

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109 The BTI study notes that failures in communication are a key reason that relationships between corporate counsel and outside counsel fail. See BTI Consulting Group, Inc., supra note 77.

110 For a discussion of how the regulation of lawyers domestically inhibits the development of integrated cross-jurisdictional legal solutions, see Gillian K. Hadfield, The Role of International Law Firms and Multijural
restrictions, but are left with the task of cobbling together expertise from individual country experts.

With employees and team members scattered across the globe, for example, Mitch Gaynor of Juniper Networks faces a multijurisdictional maze of employment, trade, and customs law. But the legal infrastructure available to him is composed only of a “patchwork of providers.” Of course any high end law firm, if you pay them enough, can pour sufficient resources into digging into multiple regulatory regimes to give Juniper the answers it needs once Gaynor has formulated the question. But this is an extremely costly solution, beyond the reach of the new economy start-up that is “global from Day One.” There is no time to build a large in-house legal department and no budget for thousands of hours of research and memo-writing by a far-flung army of associates and foreign partners. Moreover the solution is klugey and inelegant: it does not offer a way of cutting through complexity, it compounds it. And that is frustrating in a new economy world where the essence of success is the simpler, smarter way of getting things done.

Lawyers are not immune to the ‘can-do’ spirit of competitive markets. They experience their markets in fact to be quite competitive and the legal profession’s response to claims of inadequacy in the supply of legal inputs is often: “we can do that; just ask us.” The problem is not that lawyers are lacking in intelligence and the potential for creativity. It is that solutions generated in the existing business model—craft-based high intensity human capital deployed in organizations composed, financed and managed exclusively by lawyers—are simply too homogeneous and too expensive relative to the value they generate. As pushback from even the largest firms indicates, it’s too expensive even for the mega-firms like Google and Cisco. But it is especially true for the

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111 See supra text accompanying note Error! Bookmark not defined.

112 “Even before the economic meltdown, corporate counsel had started pushing back more than ever on rising legal costs and voicing their frustrations: ‘Costs keep rising, but with no noticeable improvement in efficiencies and outcomes…The system is broken…Better alignment is needed between cost and value.’”
high-energy, high-risk, high-return business activity that typifies the new economy: the innovative start-up, the experimental joint venture, the emergent network. The company that, like Juniper Networks, is “global from Day One.” Or that, like Mozilla, is committed to a business-model that fosters non-market collaboration of the type that Yochai Benkler has highlighted. The legal infrastructure with which these new economy actors have to work is simply not capable of delivering what is needed. The solution is not sustainable.

4 How did we get here: secondary legal infrastructure

What accounts for this state of affairs? Why is our legal infrastructure—the set of legal materials and tools available to support and regulate economic activity—so poorly adapted to serving the needs of the new economy? And if the demand for legal inputs is fundamentally driven by economics it is reasonable to ask: why does such a poorly adapted system persist? The answer lies in understanding that legal infrastructure is largely an organic entity: it is produced by the actors who make up the ‘legal sector’. Mismatches in legal infrastructure are largely a result of even deeper elements of legal infrastructure, what we might call “secondary” legal infrastructure: the set of rules and institutions that determines who may participate in producing legal inputs, and how. (I am intentionally echoing here H.L.A. Hart’s distinction between primary legal rules and secondary legal rules—secondary rules are the “rules for making rules” and in particular the rules of recognition in a given system that determine what it takes to produce a valid primary legal rule.)

These rules and institutions display two fundamental characteristics. First, public actors exercise a near-complete monopoly over rule production. These public actors include legislators, civil servants operating within administrative agencies in the executive branch of governments, and judges operating within courts, all of whom are by-and-large not experts in the substantive areas

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Michael Roster, ACC Value Challenge Project Summary, in Association of Corporate Counsel, ACC Value Challenge Briefing Package, supra note Error! Bookmark not defined., at 5.

113 See sources cited supra notes 16, 38.

they regulate.\textsuperscript{115} Second, complementary services that implement formal legal rules are provided in legal markets that are among the most highly controlled and protected in the modern economy. Ostensibly through state supreme courts and practically through state bar associations and the American Bar Association, members of the legal profession (lawyers and those lawyers who have become judges) both control who may supply legal inputs and the business models that can be adopted to finance and deliver legal inputs.

My claim is that poorly adapted primary legal infrastructure persists because our secondary infrastructure—based on publicly-supplied rules and a closed legal services market—imposes (at least) two fundamental barriers to entry: it expressly restricts many forms of supply to conventional and often public providers, and indirectly it derailed innovation by crippling investment of venture capital in innovation of legal methods.\textsuperscript{116}

\textsuperscript{115} All judges are trained as lawyers; many legislators are as well. In 2006, 53\% of Senators and 36\% of Congressmen were lawyers; 26 out of 44 of U.S. presidents have been lawyers. See American Bar Association, Young Lawyer’s Division, Choose Law, Trivia, \url{http://www.abanet.org/yld/chooselaw/trivia.shtml#q15} (answers to questions 7, 8, & 9); see also J. Douglas McElvy, The Most Powerful Profession, 65 Ala. Law. 288, 290 (2004); American Bar Association, ABA Charts of Lawyer-Legislator in Congress, 110th Congress, available at \url{http://www.abanet.org/poladv/publications.shtml} [click on U.S. House of Representatives and U.S. Senate links] (indicating that 40\% of the U.S. House of Representatives in the 110th Congress were lawyers and 59\% of the Senate in the same Congress were lawyers) \url{http://www.abanet.org/yld/chooselaw/trivia.shtml#q15}. Administrative agencies generally possess expertise but are heavily constrained by non-expert oversight and rulemaking by legislators and courts.

Express supply restrictions

The displacement of costly and poorly adapted legal production methods in law is directly limited by formal constraints on who may supply legal inputs. Most of our legal rules can only be produced by publicly constituted entities. This is true for most forms of intellectual property protection (trade secret, copyright, trademark, patent), securities regulation, corporate law, bankruptcy, secured transactions, environmental regulation and so on. Businesses cannot in general choose between alternative providers—rules are imposed on a mandatory basis based on a jurisdictional determination also supplied by public actors. Where they can choose—as in corporate law, for example—they are restricted to choosing among public providers, specifically the states. Private providers—whether profit-maximizing or non-profit—cannot compete for the business of designing a higher value, more cost-effective set of rules and procedures. And even in those cases in which public rules are supplied as defaults and parties can devise privately through contract an alternative set of rules, the terms on which those privately-designed rules will be enforced is governed by public rules—specifically those of state contract law. This leaves this private alternative embedded in the public production process of legal inputs.

But what prevents parties from going a step further and using state-provided contract law to enforce an agreement to adopt a wholly different, and privately provided, mechanism for managing, at least, their contractual relationships? Particularly in light of the Federal Arbitration Act—which since 1925 has instructed American state and federal courts that they must enforce parties’ agreements to arbitrate their disputes in private systems—parties have long been free to choose alternative mechanisms. This is, indeed, how the trade associations studied by Lisa Bernstein

117 9 U.S.C.A. §1 et. seq.
118 See Lisa Bernstein, Merchant Law in Merchant Court: Rethinking the Code’s Search for Immanent Business Norms, 144 U. Pa. L. Rev. 1765, 1770-82, 1818-21(1996) (explaining that the National Grain and Feed Association applies a heavily “formalistic” approach to dispute resolution that does not give much weight to “course of dealing, course of performance, and usage of trade”); Lisa Bernstein, The Questionable Basis for Article 2’s Incorporation Strategy: A Preliminary Study, 66 Univ. Chicago. L. Rev. 710, 723, 725,
operate their private, and distinctive, contract enforcement systems. Why have such systems not emerged outside of the prototypical old economy trade association composed of the buyers and sellers of a single commodity such as diamonds, grain or cotton?

The fate of even the minimal\textsuperscript{119} effort to contract out of the evidentiary and procedural rules of state court systems through private arbitration demonstrates the significant impact of the express limitations imposed by our secondary legal infrastructure on who can provide legal inputs. By most accounts, modern commercial arbitration is increasingly indistinguishable from litigation in terms of the resources devoted to discovery, evidentiary battles, and procedural moves.\textsuperscript{120} Arbitration brings some important benefits—confidentiality and greater party control over the timing of procedures—but early hopes that the process would routinely dispense with expensive strategic

\textsuperscript{119} The effort is “minimal” because parties including an arbitration clause in their contracts by and large do not contract out of state-provided substantive law, only the state-provided adjudication process.

litigation tactics, where costs on the margin seem clearly to outweigh benefits, have largely been dashed.

Arbitration, perhaps inevitably, looks like the process that lawyers and judges have created in public courts because lawyers and judges still dominate the process. Some of this is due to express arbitrator qualification requirements imposed by arbitration providers. For example, the Financial Industry Regulatory Authority (formerly NASD), whose rules must be approved by the SEC, requires that arbitrators in employment discrimination suits be licensed attorneys. A leading arbitration provider that advertises that its neutrals are required to follow substantive law—the National Arbitration Forum—requires that its neutrals be attorneys or retired judges. But even without express requirements, lawyers and retired judges clearly dominate the market for arbitrators. JAMS, another leading provider, currently shows a list of neutrals that is almost exclusively attorneys and retired judges.

This is no doubt in part attributable to the control that lawyers have exercised over who may represent a party in an arbitration. Many state bar associations have deemed representation of another (other than one’s employer or partner) before a private arbitration tribunal as the “practice of law.” As a result, non-lawyers, and indeed often out-of-state lawyers, are prohibited from

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122 Id. at § 10211. Another example of similar arbitrator qualification requirements is the California Mandatory Fee Arbitration Program, whereby California allows clients to opt for arbitration of their fee disputes with their former attorneys through program managed by local state bar associations. (Attorneys are also permitted to compel clients to participate in the program when their fee agreement contains an arbitration clause). Cal. Bus. & Prof. Code §6200 (2010). At least one member of the arbitral panel for this program must be an attorney with a particular area of practice. Id. at §6200(e).


providing representation. A recent Virginia State Bar decision, for example, held that a Certified Public Accountant who represented a client in an arbitration before the then-NASD was engaged in the unauthorized practice of law. A recent opinion from the New Jersey State Bar held that even out-of-state attorneys (much less non-attorneys) are engaged in the unauthorized practice of law if they represent clients in arbitrations, or indeed in mediations, unless the service arises from their representation of the client in their own jurisdiction and they have registered with and paid the required fees of the New Jersey Bar Association. Lawyers have thus defined arbitration as a legal process over which they command regulatory control. With lawyers in charge of the process, it is not surprising that even if non-lawyer arbitrators are authorized by an arbitration provider or relevant agency (such as the SEC), a strong “market” preference will emerge for lawyers and particularly retired judges to serve as arbitrators.

The obstacle this imposes to the use of private contracting methods to develop alternative mechanisms for supplying legal inputs is especially dramatic because any truly innovative mechanism is likely to emerge organically and incrementally. Significant innovation is likely to require some initial foothold, some small experimental and limited use within the framework of an

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127 See Model Rules of Prof'l Conduct Rule. 5.5 (2007). Out-of-state lawyers can represent client in arbitration if the arbitration grows out of representation of client in their own jurisdiction. See id. California requires certificate filed with California state bar association and local attorney of record. See Cal. Code Civ. Proc. § 1282.4. New Jersey requires an out of state attorney to register with the Clerk of its Supreme Court and authorize the Clerk to receive process on the attorney’s behalf. See New Jersey Committee on Unauthorized Practice of Law, Opinion 43: Out of State Attorney Representing Party Before Panel of the American Arbitration Association in New Jersey, available at http://www.judiciary.state.nj.us/notices/ethics/UPLC_Opinion43supplementingop28.pdf (also recommending that AAA arbitrators require as part of filing process that out-of-state attorneys certify compliance with Rule 5.5, and raising the possibility that lawyer-arbitrators who fail to do so may be themselves in violation of ethics rules that require an attorney not assist another in the unauthorized practice of law).


129 NJ Opinion No. 43. [check]
otherwise conventional method. But those conventional methods are fully controlled and conceptualized by existing legal providers: attorneys and judges.

**Constraints on capital**

The limitations on who may provide, and hence potentially innovate, legal inputs are compounded by constraints that attorneys have placed on the organizational form and financing of legal providers. Judges and lawyers in the U.S. have decided that entities financed by non-lawyers cannot supply legal services to the market—even if the entity's business model requires that licensed attorneys actually provide any legal advice or representation to clients. This eliminates the corporate form as a vehicle for the supply of legal inputs and cuts legal innovation off from sources of private equity capital—the angel investments or venture capital, for example, that finance innovative ventures in other industries and the potential IPO that motivates them and many entrepreneurs. And, as Larry Ribstein has recently documented, debt financing contributed to the fragile financial structure of the high profile law firms that stunned the law world between 2003 and 2008 by failing.

These constraints also cut legal innovation off from important sources of human capital. Non-profit entities governed by non-lawyers by and large cannot, for example, market different legal inputs to overcome inefficiencies in the lawyer-dominated model. Architects or engineers in the U.S., for example, cannot through their trade association market legal services specifically targeted at improving value for their industry. They can provide blank forms—so long as they do not

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130 The “corporate practice of law” doctrine emerged in New York in 1909. Bruce A. Green, *Future of the Profession: A Symposium on Multidisciplinary Practice* 84 Minn. L. Rev. 1115, 1120 (2000). It is represented in ABA Model Rule of Professional Conduct Rule 5.4prohibiting the sharing of fees with non-lawyers or submission of legal work to non-lawyer control or supervision. Australia and New Zealand were the first jurisdictions to eliminate this requirement; the U.K. is implementing this reform now. For a discussion, see Milton C. Regan, Jr. *Lawyers, Symbols and Money: Outside Investment in Law Firms* 27 Penn. L. Rev. 407 (2008).

131 Ribstein *Death of Big Law supra* n. 89, pp 20-23.
provide any legal advice about how to fill the form in or which form to choose132 -- but they cannot
do what the Australian Association of Consulting Engineers has done—create a wholly-owned
subsidiary ("Built Environment Legal") which serves as a law firm to industry participants.133 Nor
can innovative lawyers who recognize the need to incorporate methods that fall outside of the
traditional model of law look to non-lawyer software engineers, systems analysts, management
consultants, accountants or psychologists as their partners in devising such methods.

Lawyers—through bar associations and as judges in state supreme courts—have put in place
elements of the secondary legal infrastructure that ensure that they are in the primary position for
any development of legal methods and inputs. They have established themselves as gatekeepers
for innovation. It is in this sense that our secondary legal infrastructure—committed to public and
closed production methods in general—severely constrains the potential for innovation in our
primary legal infrastructure.

5 The Road Ahead: A greater role for markets in the production of legal inputs

The transformations in legal demand wrought by the attributes of a new globally networked
web-based economy—facing high degrees of heterogeneity, high velocity and pervasive
uncertainty—are clearly outstripping the capacity of our legal infrastructure to keep up. The gaps
and frictions and missing bridges identified by General Counsel in leading innovative firms reflect
the growing inadequacy of the set of legal inputs available to them to structure and regulate their
economic relationships and environment. The primary legal infrastructure available to them is
excessively document-based and human-capital intensive; and insufficiently diversified, flexible

132 See, e.g., In re Reynoso, 315 B.R. 544 (9th Cir. BAP 2004) (solicitation of information which is then
translated into complete bankruptcy forms is unauthorized practice of law); Washington State Bar Ass'n v.
Great Western Union Federal Sav. And Loan Ass'n, 91 Wash. 2d 48, 55 (selection and completion of
preprinted form legal documents by nonlawyer is unauthorized practice of law); State ex rel. Indiana State
Bar Ass'n v. Northouse 848 N.E.2d 668 (Ind. 2006)(nonlawyer insurance agent and nonlawyer preparer of
estate planning documents engaged in unauthorized practice of law). For a recent challenge to online legal
document providers, see recently filed class action Todd Janson v LegalZoom (Docket 09AC-CC00737OSW,
19th Judicial Circuit, Cole County, Missouri).
and responsive to change and cost. That primary legal infrastructure is the organic product of a set of rules and practices governing the production processes of law—and it is at this secondary level of infrastructure that efforts to improve the quality of law must aim.

Those production processes cause law to grow in ways that are especially insensitive to the marginal costs and benefits of alternative means of accomplishing specific economic tasks such as controlling opportunism in a contracting relationship or encouraging investment in appropriable assets such as new ideas. The reason, I claim, is that our production processes for law are dominated by public and highly protected providers—not subject to the competitive benefits of markets. In the high velocity, high novelty, high complexity world of the new economy, those benefits are principally the innovation benefits that come from directing attention, effort and resources to what is happening on the margin—where costs are coming from, where benefits are hidden, and how to creatively bring them into better alignment using methods and techniques measured against performance rather than the internal scholastic or adversarial values of a closed legal profession.

A greater role for markets in the production processes of law implies two key areas of reform. First: greater scope for competitive private production of legal rules. This requires that economic entities be given the ability to choose among legal providers, and that these legal providers include private firms and organizations. We already have the necessary enabling law that allows, for example, firms to choose their state of incorporation; and the idea that companies might choose their securities regulator is now widely canvassed.134 Obtaining a greater role for markets in these settings merely requires expanding the choice set to include private providers. Extending choice into other legal areas certainly raises challenges—how to ensure that a market for alternative

forms of intellectual property protection operates reasonably well if there is the risk that the market is dominated by either users or producers of appropriable knowledge, for example—but these are better challenges to undertake than to figure out how to get a slow-moving and politically-expedient Congress to solve the problem with 1000 pages of legislation how to get solutions out of million-dollar lawsuits in front of juries and generalist judges applying scholastic reasoning and responding to adversarial pressures.

The fact that we have much less market-based private production of legal rules and systems than we already could have given the potential for private contracting and the enforceability of arbitration agreements, however, should alert us to the critical role in shaping legal production played by our extraordinarily closed markets for legal goods and services. This is why serious reform of our secondary legal infrastructure aimed at improving the quality of legal inputs available to the new economy also requires opening up the existing markets for private legal providers. State-by-state lawyer (including judge) control of who may provide legal services, in what form of organization, with what training, with what kind of financial and management structure, erects a tremendous roadblock to the effort to drive innovation in legal production. We need more people who are thinking about how to deploy data to manage inchoate rapidly changing economic relationships, not more people thinking about how to draft more documents, to achieve that goal. We need more resources devoted to optimizing value-distribution in order to encourage investments in appropriable knowledge assets, not more resources devoted to developing expensive document management technology to respond to the e-discovery arms race in patent litigation. We need the kind of creativity that develops simple elegant user-interfaces for complex machines like the iPhone, not the kind of Rube Goldberg creativity that ratchets up the ambiguity and hence interpretive complexity of a contract or regulation. But our existing providers operate within a closed system that rewards excellence in the deployment of scholastic and adversarial instruments, not the invention of alternatives to them.
Only lawyers will find anything remarkable in the proposal that markets for legal goods and services should operate as most other markets do: with decisions about who can provide what goods and services where, with what training, in what organizational form and with what financing left largely to the market, subject only to the level of regulation necessary to make such a market reasonably competitive and responsive to social welfare. Lawyers will argue these are matters of professional ethics—but they are not. They will argue these are matters of consumer protection—but they are not. They are matters of economic policy. And, as one of the general counsel I spoke to remarked to me, law is too important to be left to lawyers. The stunning transformation we are witnessing in the economy and global economic relationships cannot be managed by the legal production methods of the old economy. It requires nothing less than a transformation of our legal infrastructure itself.