Economic governance in an electronically networked global economy

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Geographical space as a source of explanation affects all historical realities, all spatially defined phenomena; states, societies, cultures, and economies.¹

In the Westphalian state system the basic unit of economic governance is the national market defined, as is the sovereign state, in terms of mutually exclusive geographic jurisdiction.² Economic governance – attempts to exert authority over economies and economic actors – is exercised through borders and territorial jurisdiction.

In this chapter I argue that the emerging global world economy compromises the effectiveness of national market-based economic governance. As the minimal spatial extent of product markets grows larger than the geographic scope of the larger national markets, the latter no longer remain viable as basic units in the world economy. As an electronically networked world economy renders economic borders less meaningful, jurisdiction loses significance. As markets are increasingly constructed in cyberspace, control through control over territory becomes problematic.

In contrast, an international or crossborder world economy comprising a system of interconnected, geographically defined, national markets does not necessarily compromise territorial control. Although jurisdictional ambiguity or conflict may make economic governance more difficult, regulation and taxation through territorial national markets remain viable.

Globalization entails a systemic change in the organization of economics (and politics) comparable in scope to the transition from the feudal epoch to the modern or Westphalian system in Europe roughly four hundred years ago. I argue that three related and interwoven characteristics of the emerging global economy are particularly problematic for authority exercised through spatially defined national markets:

1. The scale of technology in many strategic industries (its cost, risk, and complexity) renders the minimum effective market size larger than that of even the largest national markets;
2. Networks are replacing hierarchies and markets as a basic form of economic organization; the diffuse, non-centered, and relational character of networks is not consistent with economic authority exercised through bounded and discrete geographic territory; and
3. The migration of markets to cyberspace (or some combination of physical and virtual space) renders geographic space problematic as a basis for effective economic governance.

As many authors have pointed out, “we have been there and done that” – this is actually the second global economy or second wave of globalization. The first global economy, which dates roughly from 1870 to 1914, has been called “the high-water mark” of an open, integrated international economy and the “golden age” of international economic integration.

Pre-1914 levels of international trade and investment were striking; world trade grew by almost 50 percent per decade from the middle of the nineteenth to the early twentieth century, and international capital investments by 64 percent per decade during the forty years before World War I. By most measures the degree of internationalization of the first global economy compares favorably with that of the current or second. To cite one relative comparison, at their late twentieth-century peak, Japan’s capital exports (relative to GDP) were only about half of Great Britain’s at the turn of the century.

That being said, there is no question that the current “global” economy differs significantly from that of a century ago. First, it is broader in terms of the number of national markets encompassed (albeit to varying degrees) as constituent units. Second, it is deeper in terms of the density of interaction, of flows of trade and investment, than it was prior to 1914.

Third, and perhaps most important, the dominant mode of organization of international economic transactions changed significantly in the late twentieth century from the market (trade and portfolio investment) to hierarchy or the internationalization of production through the multinational enterprise (MNE). By the late 1990s, 60,000 transnational corporations with over 500,000 foreign affiliates accounted for about 25 percent of global output. The United Nations Programme on Transnationals concluded that “international production... is at the core of the process of globalization.”

That still begs the critical question: does globalization define a change in degree or kind? Does it represent an extension of the modern international world economy into somewhat unfamiliar territory, or a systemic transformation which entails changes in both quantity and quality, defining new structures and new modes of functioning? Does globalization define a fundamental change in the mode of organization of the world economy?
While there is general agreement that major changes in the scope and organization of international economic activities are taking place, considerable disagreement over their interpretation remains. Some argue that the interrelated economic and technological developments which are emerging as critical components of globalization will result in deep structural adjustments, leading to periods of significant change, perhaps epochal in nature. The French author and politician Jean-Marie Guehenno, for example, links emerging global networks with the death of nation-states and of the state structure.

Others claim that all that has ended is what Eric Hobsbawm calls the “age of extremes,” the economic dislocations and mass destruction – real or threatened – which have characterized the “short” twentieth century from 1914 to the end of the Cold War in 1991. One implication of this line of argument is that with the end of the “age of extremes” we are now able to return to the open, international world economy of the early twentieth century; that what appears to be dramatic change is actually a return to normalcy. Thus, Alan Blinder, who was then vice-chairman of the US Federal Reserve Board, observed that “a great deal of what we have been witnessing since 1950 is simply getting the world back to the level of integration that had been achieved in 1914.”

The underlying issue, however, is not whether the level of and/or rate of growth of either trade and investment or of interdependence are greater in 2000 than they were in 1900. It is whether a qualitative structural change is taking place, and that cannot be demonstrated by quantitative arguments involving crosstemporal comparisons of economic data.

Put differently, is the current global world economy merely “more” international, or does it entail a deep change in political-economic structure? If the distinction is to have meaning, it is important to be precise about definitions. International is a relatively new word dating from the late eighteenth century; it is a modern concept which was not relevant before the emergence of territorially defined nation-states and national markets. An international economy links discrete, mutually exclusive, geographic national markets through crossborder flows of trade and investment.

“The worldwide international economy is one in which the principal entities are nation-states, and involves the process of the growing interconnection between national economies . . . [it] is an aggregate of nationally located functions.” An international economy is unambiguously modern; it involves relations between sovereign units of the Westphalian state system and hierarchically structured, often vertically integrated, discrete economic actors. It is profoundly geographic in that borders of states and markets delineate its constituent components.
The internationalization of production is not necessarily inconsistent with this framework: MNEs are seen by many observers as national firms with a clear center or home country, which engage in international operations and require access to territory to function. At the end of the day, MNEs are international or crossborder entities which are of the existing interstate system and are firmly rooted in national jurisdiction.

In contrast globalization entails a qualitative transformation of the international world economy. As noted above, the argument is based on three related propositions. First, dramatic increases in the scale of technology in many industries – in its cost, risk, and complexity – have rendered even the largest national markets too small to be meaningful economic units; they are no longer the “principal entities” of the world economy. National markets are fused transnationally rather than linked across borders.

Second, the recent explosion of transnational strategic alliances is a manifestation of a fundamental change in the mode of organization of international economic transactions from markets and/or hierarchies (i.e., trade and MNEs) to global networks. Last, and related to the second point, the emerging global economy (and many emerging global political actors) is digitally integrated and entails the migration of markets from geographic space to cyberspace.

My primary interest in this chapter is the impact of globalization of the world economy on economic governance, on national markets and nation-states. I argue that globalization compromises the basic symmetry of political and economic organization, of nation-states and national markets, which is characteristic of much of the twentieth century.

An asymmetry of geographic scope is emerging as economic units (markets) expand in space well beyond the limits of political units (national territories). More important is the emerging asymmetry in mode of organization as interstate politics remains geographically grounded in sovereign territory while major sectors of the world economy (and many significant non-state actors) are organized in terms of non-territorial electronic networks. Geographic space is losing meaning as the basis for the organization of markets. As a result, geographically rooted economic governance has become problematic, and non-state or private actors are increasingly involved in authoritative decision-making.16

The next section of this chapter deals with three components of globalization in some considerable detail: the scale of technology; alliances and crossborder networks; and the movement of markets to cyberspace. I then turn to networks as a mode of economic organization and the emergence of a networked global economy. Implications for states and the state system will then be discussed. The chapter concludes with some thoughts about possible futures.
Components of economic globalization

Scale of technology

Markets, as well as economic governance, are typically conceptualized in spatial or geographic terms. In his *Principles*, Marshall quotes Cournot to define a market as “not any particular market place in which things are bought and sold, but the whole of any region in which buyers and sellers are in such free intercourse with one another that the prices of the same goods tend to equality easily and quickly.”

That raises a pertinent but little considered question: why should markets spread geographically beyond a local area or region? The simplest explanation, and the oldest, is that the supply of some goods is found in one locale and their demand in another: e.g., precious metals, spices, and petroleum. The geographic expansion of markets also allows for a more productive division of labor: “Smithian” gains from specialization, exploitation of differences in resource endowments, and the adaptation of skills.

Last, spreading fixed capital costs over a larger market area can reduce unit costs and produce gains from scale. The application of science and technology to production processes and products toward the end of the nineteenth century provided an irresistible motive for the geographic expansion of markets. Firms found that the need for larger production runs to achieve economies of scale and, later, the demands of competitive research and development budgets mandated expansion of the geographic bounds of markets.

In most transnationally integrated industries, internationalization is driven by scale rather than specialization; a process Kenichi Ohmae characterizes as a dramatic shift from a variable to a fixed-cost environment has occurred. He notes that in a number of critical industries, the scale of production and/or technology has increased to the point at which fixed costs must be amortized over a larger market base than is available in even the largest national markets.

While “Smithian” expansion is consistent with an international world economy, expansion driven by scale, and especially technological scale, may not be. An international world economy is constructed through the mutual interconnection or crossborder integration of national economic spaces. As Manuel Castells notes, a global economy is something different: “it is an economy with the capacity to work as a unit in real time on a planetary basis.” An international economy *links* distinct national markets; a global economy *fuses* national markets into a coherent whole.
Furthermore, at this point in time, it is the cost and risk of technology rather than the need for larger production runs that are the primary motivation for the transnational integration of markets. In many strategic industries, international expansion is required to fully amortize the enormous research and development expenses associated with rapidly evolving process and product technology. There are only a few industries (e.g., automobiles and construction equipment) in which the fixed costs of manufacture are the motivation for international market integration, and even there developments such as computer-aided design/manufacture and flexible production are reducing rapidly the number of units needed to fully exploit scale economies.

While the point is difficult to “prove,” F. M. Scherer has concluded that in only a very small minority of industries is concentration approaching oligopoly at the national level justified by production scale economies in the US market.\(^{21}\) In a previous study, I found that technological intensity was the primary determinant of the transnational integration of US firms, and that proxies for manufacturing scale were not significant.\(^{22}\)

On the other hand, there is no question that the cost, risk, and pace of technological development have increased significantly over the past four decades. For example, constant dollar research and development expenditures for US industry increased almost five and one-half fold between 1953 and 1990; they increased 150 percent between 1980 and 1990 alone. In fact, with the exception of the early 1970s and the early 1990s, non-Federal government constant dollar R&D expenditures have grown at an annual rate of well over 6 percent over the last four decades.\(^{23}\) Research and development spending as a percentage of sales for US industry doubled in the sixteen years between 1976 and 1992: from 1.9 to 3.8 percent.\(^{24}\)

As the extent of a company’s research and development effort is mandated by the nature of its technology and competition rather than its size, this rapid growth of spending requires a corresponding expansion of sales – and ultimately, internationalization – if profitability is to be maintained. Put another way, it is impossible to maintain a competitive level of R&D expenditure in industries such as pharmaceuticals, semiconductors, telecommunications, or aerospace based upon sales in even the largest national market. Firms must sell very similar products in a number of the larger markets to remain players in the industry. In that sense, the marked increase in the cost, risk, and complexity of technology over the last decades of the twentieth century has fused markets globally rather than linking them internationally, at least in these strategic, technology-intensive industries.

At this point it appears that the global integration of markets by a single firm may no longer be sufficient to offset the huge costs and risks of
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Technological development in a number of strategic industries. The last decade has seen an exponential increase in technology-driven collaborative agreements or strategic alliances among leading multinationals from the major industrial countries.

**Strategic alliances**

Strategic alliances are relevant for two reasons. First, in many instances they are an indicator that the *scale* of technology – the cost, risk, and complexity of research and development – has grown to the point where it is beyond the reach of even the largest and most global firms. Second, alliances are a manifestation of the emergence of a networked global economy; they represent a change in the *mode* of organization of international economic transactions.

Although comprehensive data on alliances do not exist, virtually every attempt at data-gathering reveals their dramatic growth over the last two decades; one study estimated a 31 percent compound annual growth rate for the number of high-technology alliances over the 1980s. Booz Allen & Hamilton reports that alliance-generated sales among the Fortune 1000 grew from less than 2 percent in 1980 to 19 percent by 1996; they are projected to be 35 percent by 2002.

The vast majority of alliances are triad-based; most studies find that over 90 percent of all agreements are between firms from North America, Europe, and Japan. Alliances also tend to be concentrated in a limited number of industries: typically automobiles and high-technology sectors such as pharmaceuticals, biotechnology, aerospace, information technology, and new materials. A single firm in these industries often enters into very large numbers of alliances: in the last half of the 1990s, IBM formed about 800 alliances, AT&T 400, and Hewlett Packard 300.

The motivations for strategic alliances are complex and varied. One motivation is clearly global market access: the need to compete simultaneously in all major markets, or at least in all the legs of the triad. A second reflects the continued importance of national boundaries: government preferences for “local” firms in industries such as aerospace in which an alliance with a national or regional firm may be a necessary requisite of sales to either the military or a national airline. Third, one can never dismiss an interest in reducing competition as a motive for collaboration.

The most important motivation for alliance formation, however, is the increasing cost, risk, and complexity of technology. Even the world’s largest and most international firms can no longer “bet the company” on the next generation of semiconductors or jumbo jets; in many industries
the cost of a competitive R&D budget has risen to the point where it is no longer possible to “go it alone.” An example is provided by the alliance between IBM, Siemens, and Toshiba to develop a 256-megabyte chip motivated by the need to share an estimated US$ 1 billion in development costs and the large associated risks.33

Perhaps more important, technologies have become so complex and rapidly changing that even industry leaders cannot master them internally. An analysis of over 4,000 strategic alliances, in which innovation or an exchange of technology represented at least part of the agreement, concluded that “cooperation has to be understood in the light of attempts made by companies to cope with the complexity and the interrelatedness of different fields of technology and their efforts to gain time and reduce uncertainty in joint undertakings during a period of technological uncertainty. Other motives appear to play a very limited role.”34

In summary, the evidence strongly suggests that the minimum size of markets needed to support technological development in industries such as aerospace, semiconductors, and pharmaceuticals is now larger than the largest national markets. Furthermore, in some industries single-firm internationalization no longer appears sufficient as even the largest multinationals must cooperate to deal with the cost, risk, and complexity of technology.35 Alliances represent a transformation of the mode of organization of international economic transactions from hierarchically structured MNEs to networks. This has important implications for the viability of territorially defined national markets and geographically ordered economic governance, which will be discussed in detail below.

**Digitalization of the world economy**

The world economy is increasingly electronically integrated and digital. Networks, and especially transnational networks, are creatures of the information age held together by information technology.36 Computers, facsimile machines, high-resolution monitors, and the internet are the “threads” of the global web of the emerging electronically networked world economy.37

More important, markets are migrating from geographic space to cyberspace as electronic commerce grows in both the business-to-business and the business-to-consumer spheres. Finally, physical products are becoming digital services, data transmitted electronically over the internet. (The increasing importance of downloaded software or music in the MP3 format provide examples.) We are entering an era in which information in the form of electronic cash will be routinely exchanged for information in the form of a digital book, symphony, photograph, or computer...
program. In short, we face a dual revolution: the migration of markets from geographic space to cyberspace and the morphing of products from real “atoms” to digital “bits.” Both render geographically defined national markets and economic governance rooted in territorial jurisdiction problematic.

Thomas Malone and John Rockart argue that the electronics and information revolution has resulted in an about-turn, making extra-firm coordination cheaper and more efficient once again. Electronic information technology facilitates the integration of geographically dispersed operations and allows networked coordination to replace ownership and hierarchy as a primary mode of control. One result is the emergence of flexible networks replacing production by a single large firm. Hierarchical, vertically integrated transnational firms have “fragmented” into “diverse” networks reintegrated through information technology.

There is widespread agreement that electronic information systems are critical to alliances. Albert Bressand, Catherine Distler, and Kalypso Nicolaidis, for example, argue that electronic networks play a central role in wealth creation as production and transactions merge into complex, information-intensive processes; networks are a manifestation of the blurring of the boundary between the factory and the marketplace. Clarence Brown makes a similar point: as intrafirm integration increasingly depends on electronic information technologies, modern manufacturing enterprises are coming to have a great deal in common with information service firms. He notes that this applies to interfirm links – to subcontractors and customers – and that these linkages are rapidly becoming global in scope.

It is directly relevant that in 1995 Fortune combined the Industrial and Service “500,” arguing that the new economy has virtually obliterated the distinction between industrial and service business. The article notes the digital revolution has “dematerialized” manufacturing, citing one source claiming that three-fourths of the value added in manufacturing is now information. All firms, regardless of sector, are becoming information processors.

I have discussed the implications for national markets of the migration of markets to cyberspace and the digitalization of products in detail elsewhere. One example will make the point here.

The Indian software industry is a dramatic example of a relatively poor country entering the global economy, or to be more specific a segment of that country. The industry has grown at an annual rate of 50 to 69 percent through the 1990s. It is also export-oriented, with exports in 1998–99 totaling US$ 2.65 billion and estimated at US$ 3.9 billion in 1999–2000.
Between 40 and 50 percent of software is exported directly over satellite or the internet. The vast majority takes the form of services, upgrading systems, installing new programs, and the like. Target markets are often financial services and insurance companies in the United States and Europe. It is quite possible for an Indian programmer in Bangalore to be working directly on a computer in a bank in New York City, installing a new program or upgrading the system.

That raises a question of interest: where did the transaction take place? It is far from clear which “jurisdiction” gets to tax it, or whether it is an export or an import. There is a very real possibility that national markets and territorial jurisdiction are not directly relevant when markets are constructed in cyberspace. Geography and territorial jurisdiction do not map on cyberspace.

A networked world economy

Increasingly, network metaphors are used to describe the emerging world economy: a shift from standardized mass production to flexible production, from vertically integrated, large-scale organizations to disaggregation of the value chain and horizontally networked economic units. In Dunning’s terms, hierarchical enterprises are being replaced by alliance capitalism.

The information revolution is a critical factor in the emergence of networks as a mode of organization of the world economy. Global networks are both real and virtual; in fact, many combine elements of both. Thus, Castells argues that international networks of firms and subunits of firms are the basic organizational form of the “informational/global” economy, and that the “actual operating unit becomes the business project, enacted by a network.”

Similarly, UNCTAD reports that traditional oligopolies (industries with very concentrated market structures) are being replaced by global knowledge-based network oligopolies. These knowledge-based oligopolies share four interesting characteristics: collaboration aims at generating new knowledge or using or controlling its evolution; they are dynamic, as collaboration focuses on shaping future boundaries of an industry or technological trajectories; they are composed of networks of firms, as alliances form the basic building block of the global oligopoly; and they form across as well as within industries. (Data processing networks which involve the merger of information and communications technology are an example.)

Ford, General Motors, and Chrysler have announced an agreement to move virtually all of their purchasing activity to the internet. Covisint
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is an online business-to-business electronic commerce network which will handle US$ 80 billion in annual purchasing with more than 30,000 suppliers and, eventually, a US$ 300 billion extended supply chain. As with other business-to-business networks, users will be able to create marketplaces, take part in auctions, and complete purchases “with the click of a mouse.”

By mid-2001, Covisint had grown to manage transactions which amounted to 13 percent of the “Big Three’s” annual procurement.

While global networks such as Covisint are revolutionary, they are but hybrid interim steps toward true informational networks. As products are digitalized – for example software, electronic books, and music – global networks will involve exchanges of information for information, services for various versions of electronic cash that take place entirely in cyberspace.

The emergence of networks as a basic mode of organization of international economic transactions may be of more profound importance than increases in the scale of technology. It is important to conceive of a networked world economy in terms of a complex web of transactions rather than a series of dyadic or triadic cooperative arrangements between firms. A large multinational firm may well be involved in tens if not hundreds of alliances linking various parts of its organization with others. Dicken characterizes these webs as multilateral rather than bilateral, and polygamous rather than monogamous.

I now turn to a brief theoretical discussion of networks before discussion of the impact of a networked global economy on economic and political organization.

**Network forms of organization**

Strategic alliances and electronic networks represent a networked mode of organization of international economic transactions which can be distinguished from both trade (markets) and multinational firms (hierarchies). Although there is general agreement that networks are a basic form of economic organization, a central question, which is pertinent here, is whether “markets, hierarchies, and networks are discrete organizational alternatives employing distinctive control mechanisms or plural forms on a continuum employing, price, authority, and trust simultaneously.”

Oliver Williamson includes hybrids or networks – “various forms of long-term contracting, reciprocal trading, regulation, franchising, and the like” – with markets and hierarchies as generic forms of economic organization. He locates hybrids on a continuum between markets and hierarchies, the polar modes of economic organization. Similarly, Wayne Baker argues that most real organizational forms fall between market and
hierarchy, and suggests that they are an intermediate or hybrid form of interface.\textsuperscript{57}

In a very influential article, however, Walter Powell argues against portraying economic exchange as a continuum with markets and hierarchies at the poles and hybrids in between. Network forms of organization—typified by reciprocal patterns of communication and exchange—represent a distinctive mode of coordinating economic activity and economic organization.\textsuperscript{58}

Similarly, an OECD report concludes that networks are a distinctive form of economic organization and the “notion of the continuum fails to capture the complex realities of know-how trading and knowledge exchange in innovation. Networks . . . represent a type of arrangement with its own specific distinctive features which henceforth must be considered in its own right.”\textsuperscript{59}

Networks have been described as “social units with relatively stable patterns of relationships over time.”\textsuperscript{60} Networks differ from markets in the assumption of longer-term, sequential transactions, and from hierarchies in the absence of an authoritative control relationship. Networks are a social form of exchange, “more dependent on relationships, mutual interests and reputation . . . [while] network forms of exchange . . . entail indefinite, sequential transactions within the context of a general pattern of interaction.”\textsuperscript{61}

Networks have a number of characteristics that affect the nature of international integration and interdependence. First, they are a form of “collective action” involving cooperative relationships, in which the actors implicitly agree to forego the right to pursue their own interests at the expense of others.\textsuperscript{62} Network linkages entail relationships over time rather than individual or “spot” transactions; given longer-term reciprocity, trust becomes critical. Network relationships are inherently or “implicitly” interdependent.\textsuperscript{63}

Second, networks do violence to the idea of formal boundaries; vertical, horizontal, and spatial.\textsuperscript{64} It becomes difficult if not impossible to define organizational boundaries, to establish where one firm stops and another begins. At best, borders are blurred and ambiguous; more realistically they become conceptually irrelevant.\textsuperscript{65}

Last, networks are relational: individual attributes are less important than position in determining organizational power and outcomes. “From a network perspective, variations in the actions of actors (and the success or failure of these actions) can be better explained by knowing the positions of actors relative to others . . . than by knowing how their attributes differ from one another.”\textsuperscript{66} Thus power is a function of position in the network. As a corollary, networks have no center.
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If networks are significantly different from both markets and hierarchies, trade, multinational firms, and alliances (both virtual and real) represent distinct modes of organization of international economic transactions. Trade involves production by national firms in national markets linked by “arms-length” spot exchanges, typically of raw materials, commodities, and finished goods. MNEs internalize production: the firm’s administrative hierarchy becomes the primary mode of organization of the international economy. In the integrated international firm, the exchange of intermediate goods through intra-industry and intrafirm trade becomes increasingly important.

The emergence of global networks signals the replacement of integrated transnational hierarchies by a cooperative and reciprocal organization of economic transactions. The basic unit and venue of production become ambiguous; indeed, there is a real question about the appropriateness of these terms. The most important flows across transnational networks are intangible: knowledge and information.

Although the periods overlap and are approximate, trade was the primary mode of integration of the international economy from the late nineteenth century through the first two post-World War II decades, the internationalization of production predominated through MNEs from the mid-1960s until the mid-1980s, and alliances or networked integration emerged in the late 1980s. Two caveats are important. First, I am not proposing a “stage theory” of international integration, but rather am concerned with changes in the dominant mode over time. Second, reality is complex and messy and there are large sectors of every economy in which production has remained entirely national and “networks” are confined to television and to job-seekers.

Globalization, national markets, and nation-states

I have argued that a global economy differs in kind from the international economy which preceded it in three critical and interrelated respects. First, in many industries the scale of technology has driven the minimum size of markets well beyond that encompassed by even the largest national markets. Second, in many of these same industries, electronically integrated networks are replacing hierarchies as the most important mode of organization of international economic transactions. Last, given the digitalization of the world economy and the emergence of the internet, markets are migrating from geographic space to cyberspace. All of these trends have significant impacts on the Westphalian, territorial organization of economics and politics, and on relationships of authority within them.
In the nineteenth century, all production took place in discrete national markets which were linked through crossborder trade and portfolio investment. Although levels of interdependence were high and policy autonomy constrained, the national market was the basic unit in the international system. As noted above, the very use of the term *international* implies the existence of discrete and meaningful territorially defined national economic (and political) units.

In contrast, at the dawn of the twenty-first century, national markets are losing meaning as the discrete units of the world economy, as the scale of technology is fusing them into a larger whole. The transition to electronic networks and to cyberspace also affects the structure of the world economy. Networks are inherently interdependent, do violence to all sorts of boundaries, and are constructed relationally, so that the concept of a center may lose meaning.

As Castells so aptly notes, positions in the international division of labor no longer coincide with countries; “they are organized in networks and flows, using the technological infrastructure of the informational economy.”67 In a similar vein, Hirst and Thompson depict national economies being subsumed and rearticulated into the global system, and argue that the international economy is becoming autonomized.68

National borders are not irrelevant. Nation-states have differing interests and objectives, and attempt to enforce their will on firms and other governments; national boundaries still “create significant differentials on the global economic surface.”69 The critical point, however, is that globalization implies that the national economy is no longer the unit of economic accounting or the frame of reference for economic strategies.70

Globalization may well represent a return to an earlier stage in the evolution of the capitalist world economy. Hobsbawm argues that, in contrast to the past three hundred years when production was local and the world economy was based on territorially defined national economies, the current phase of development is marked by the reemergence of transnational elements. “The national economy is no longer the building block of the world economy, but has a rival in the immediately global market which can be supplied directly by firms capable of organizing their production and distribution in principle without reference to state boundaries.”71

*Authority, sovereignty, and the geographic order*

Robert Keohane observes that sovereignty is typically discussed rather than defined.72 Formal sovereignty is a legal concept implying supremacy within a territory and independence from outside authorities in the exercise of state authority. In contrast, autonomy and effectiveness are
political constructs; the former implies that a state can and does make its own decisions with regard to internal and external issues, and the latter is a measure of the extent to which its purposes are achieved.

Internal sovereignty entails legitimation of the state vis-à-vis competing domestic claimants. It conceptualizes the state in the Weberian sense as having an effective monopoly of force over a territory and population, the “undisputed right to determine the framework of rules, regulations, and policies within a given territory and to govern accordingly.”

External sovereignty involves the basic principles on which the modern interstate order is based: the division of the political order into fixed, territorially defined, and mutually exclusive enclaves and mutual recognition that each state represents a specific society within an exclusive domain.

In fact, Hendrik Spruyt argues that a primary explanation for the spread of sovereign territorial institutions was that respective jurisdictions, and thus limits to authority, could be specified precisely through agreement on fixed borders. In the Westphalian system, states are assumed to be the only legitimate sources of political authority.

In examining the impact of globalization on markets, states, and the state system, one must separate analytically constraints imposed on autonomy, effectiveness, or capacity from impacts on formal sovereignty. Two sets of questions need to be asked. First, are the constraints that globalization imposes on state autonomy qualitatively different from those resulting from the interdependence associated with an international or crossborder world economy? If so, at what point do constraints on state autonomy compromise formal internal sovereignty? Second, will the emergence of an electronically networked global economy compromise external sovereignty and the idea of territoriality itself as a mode of economic and political organization? I believe the second question to be, by far, the more important.

Globalization and autonomy

State autonomy has never been absolute, and decision-making power has always been constrained by international economic transactions; the tradeoff between the efficiency gains from crossborder economic activity and autonomy is far from new. The problem facing governments has always been “how to benefit from international exchange while maintaining as much autonomy as possible.”

What is new this time around? Even if one grants that flows of trade and investment are greater in both absolute and relative terms in 2000 than in 1900, and that there is “more” interdependence (however measured), that is still only a quantitative difference. Why should globalization have
a qualitatively different impact on state autonomy? Does globalization – taken in terms of the phenomena discussed in this chapter – render a state’s ability to exert authority over its economy and over economic actors more problematic?

Participation in an international economy has always presented states with a tradeoff between efficiency and a loss of autonomy, and in many instances governments have chosen to preserve the latter. Without judging their economic merit, in opting for import-substitution policies such as forcing local production of automobiles, policy-makers were willing to trade off higher local costs for automobiles (reduced efficiency) for the promise of a more developed industrial capability and increased future autonomy.

That option is not available in industries such as telecommunications, pharmaceuticals, semiconductors, and aerospace, in which even the largest national markets are too small to support the research and development efforts needed to remain competitive. If transnational markets are an absolute requisite of continued technological innovation, governments face a discrete zero–one decision rather than a continuous, marginal tradeoff. Accepting higher costs (e.g., lower efficiency) for some degree of autonomy is not a realistic possibility; mutual dependence is inevitable, and breaking its bonds implies a degree of withdrawal that few states could tolerate. The choice is to compete transnationally or to forego the next generation of microprocessors, pharmaceuticals, or telecommunications technology entirely.

At a minimum, states must allow their firms to participate in global markets. While in theory governments could participate in the global economy while closing their borders to participation by others, that option is not viable in practice. In these strategic industries at least, independence or autonomy is a very limited option. State or public authority is compromised.

At this time in many high-technology industries, participating in the global economy implies participating through alliances and cooperative efforts. As Zacher notes, states “are becoming increasingly enmeshed in a network of interdependencies and regulatory and/or collaborative arrangements from which exit is generally not a feasible option.”

Alliances and other forms of global networks also constrain states’ ability to control economic actors through territorial jurisdiction. At this point in time, the vast majority of MNEs are responsive to their headquarters government; even the most international have a clear center in terms of operations and management. That is not the case for alliances and the emerging knowledge-based networked oligopolies discussed earlier. They are diffuse and often relational: it is far from clear, for example, whether
the American, German, or Japanese government could exert substantial regulatory control over the IBM–Siemens–Toshiba alliance to develop chips. Where are strategic alliances “centered”?

In an electronically networked global economy, the borders of national markets, the concept of territoriality itself, and the distinction between the domestic and international economy (or domestic and international policy) become problematic. In Being Digital, Nicholas Negroponte makes a distinction between trade in atoms and trade in bits. Atoms take the form of tangible material which must cross borders physically and can be controlled by political authorities. Bits, on the other hand, are transmitted electronically, typically by satellite, which process renders the borders of national markets virtually meaningless.

If software is imported in the form of disks and manuals, it is subject to border controls, tariffs, and the like. However, if it is transmitted digitally – downloaded from the internet, for example – any sort of control becomes problematic and autonomy is directly constrained. As noted above, the Indian software industry has evolved from sending Indian programmers abroad to work at a client’s site (known as “body-shopping”) to satellite linkages through which programmers physically situated in India work directly on the client’s host computer, wherever in the world it is located. If an Indian programmer located in Bangalore edits a program on a computer in New York, there is no question that economic value has been created. It is far from clear, however, whether the transaction took place in India or the United States and, thus, which jurisdiction gets to tax it or control it. Furthermore, neither government may actually know that the transaction took place.

Susan Strange has argued that states are losing authority, in part to markets and MNEs, and in part to other actors in the international system, and that the authority of governments of all states has weakened as result of technical and financial change and of integration of national economies into one single global market economy. As noted in the introduction to this volume, as the authority of states has weakened, a growing number of other actors have taken on authoritative roles in the international political system. These sources of private authority include amorphous “actors” such as global financial markets, and specific actors such as MNEs, both individually and collectively. They also include the rising number of NGOs and other civil society groups active in international politics.

The question remains, however: at what point do constraints on state autonomy affect formal sovereignty? As Geoffrey Goodwin puts it, the issue is “whether the capacity of states to order their own internal affairs and to conduct their own external policies has been so undermined or
eroded as to make the concept of state sovereignty increasingly irrelevant in practice despite its persistence in legal and diplomatic convention.”

Although this question is not immediately answerable, it is nonetheless critically important.

**External sovereignty and territoriality**

All forms of political organization occupy geographic space. However, that does not mean that they are territorial, systems of rule “predicated on and defined by fixed territorial parameters.” The distinguishing characteristic of the modern state is that it is territorial, and that of the modern state system that it organizes geographic space. As James Anderson notes:

Modern states . . . are all territorial in that they explicitly claim, and are based on, particular geographic territories, as distinct from merely occupying geographic space which is true of all social organizations . . . territory is typically continuous and totally enclosed by a clearly demarcated and defended boundary.

What makes the modern state system historically unique is this “differentiation” into “territorially defined, fixed and mutually exclusive enclaves of legitimate dominion.” Joseph Camilleri and Jim Falk argue that the first function of the sovereign state was the organization of space and that the spatial qualities of the state are “integral to the notion of sovereignty and international relations theory.” As Ronald Deibert notes, what might be called “High Westphalia – a condition of territorial exclusivity and spatial differentiation” is what marks the modern period.

The modern construction of economics is also inherently territorial; the market, national markets, and even the international economy are geographic constructs. As noted above, national markets were created by political authorities in part to territorialize economic activity.

In general, regional markets – the European Union is the best example – are motivated by the need to expand the geographic bounds of national markets to increase efficiency in terms of specialization and/or scale. An international economy, then, comprises national or regional economic spaces linked through economic transactions; economic integration is the extension of a market in geographic space. In part, globalization involves “deepening” or closer integration across national, regional, and global geographic spaces.

An argument has been made that, regardless of how international the world economy becomes, at the end of the day all economic activity takes place within national boundaries. The implication is that even the most integrated MNE does not alter the basic geographic structure of the world economy; any given step in the production process or any given economic
transaction can be located precisely in geographic space and thus assigned unambiguously to a specific national territorial jurisdiction and national market. While that argument may hold for a modern international economy, it is not necessarily valid in a post-modern, electronically networked global economy.

There is nothing in the nature of markets that demands that they be defined spatially. In part, the spatial definition of markets is a function of the stage of technological development, the need for physical contact between buyers and sellers. In part, it is a result of the path of development of the modern political-economic system. Many of the emerging global networks construct markets in electronic rather than geographic space. The international financial system provides both the best current example and a metaphor for the future.

The world financial market does not comprise linked national markets; in fact, it does not comprise geographic locations at all. It is a network integrated through electronic information systems, hundreds of thousands of electronic monitors in trading rooms all over the world linked together through satellites. It is a system which is no longer nationally centered, “in which national markets, physically separate, function as if they were all in the same place.” Global financial integration has been described as “the end of geography.”

If a trader in New York presses a key on her computer and buys euros in London, where did the transaction take place? Chase Manhattan Corporation has built a center to process transactions worth trillions of dollars each year in Bournemouth, England, linked by satellite to its offices in New York, Hong Kong, Luxembourg, and Tokyo. Would anyone argue that all of these “transactions” can be located in the United Kingdom?

The concept of geographic space does not apply directly to cyberspace. It is far from clear what jurisdictions and boundaries mean when markets take the form of information systems. One can question whether all economic activity takes place within national boundaries or even whether economic activity can occur in more than one place at the same time. At the end of the day, the real question is whether the spatial concepts of borders, territory, and jurisdiction apply to electronically organized global networks.

The information revolution – the linking of telecommunications and computers – makes the very idea of a market as a geographic construct obsolete; they have become global networks rather than places. John Ruggie suggests that a nonterritorial region is emerging in the world economy, “a decentered yet integrated space-of-flows . . . which exists alongside the spaces-of-places that we call national economies.” He goes on to
note that in this nonterritorial region the distinctions between internal and external become problematic. In summary, the very idea of a national market as an economic (or political) construct appears to have lost meaning in the post-modern world economy. As Peter Dombrowski and Richard Mansbach observe, “Markets are now effectively deterritorialized, and there is a growing incompatibility between the political boundaries of states and the economic boundaries of markets.”

Given the emergence of electronic global networks, neither territoriality nor mutually exclusive geographic organization retain relevance. The result has been to strip markets of both geographic and political meaning. The net effect of both is to raise questions about the meaning of sovereignty – at least relative to economies and economic governance – in its external sense of a system ordered in terms of mutually exclusive territoriality.

Sovereignty and modernity cannot be separated. Both entail the unambiguous and mutually exclusive ordering of space; both are profoundly geographic. Camilleri and Falk go so far as to claim that “[s]overeignty, both as an idea and an institution, lies at the heart of the modern and therefore Western experience of space and time.”

Both Gianfranco Poggi and Friedrich Kratochwil note a crisis of territoriality. The latter observes that the fact that political systems are territorial and boundary-maintaining, and economic systems are not, affects the very core of the state as a political entity. It is to that asymmetry that I now turn.

Economic and political geography

While one can certainly agree with Miles Kahler that international economic space seldom coincides perfectly with political space, during most of the twentieth century there was a rough symmetry between politics and economics: both nation-states and national markets have been bounded by the same set of unambiguous borders and organized geographically. Nation-states and national markets, however, constitute but one of a number of historical modes of organizing political and economic authority and, in historical terms, relatively short-lived ones at that. It is not unreasonable to argue that the symmetry between states and markets in both geographic scope and mode of organization – which we tend to take as the natural order of things – is characteristic of only a very brief window of time: perhaps the hundred years spanning the late nineteenth to the late twentieth centuries.
Martin Parker distinguishes between post-modern as a historical period and postmodern as a theoretical perspective (he uses the hyphen to distinguish between the two).\textsuperscript{101} Thus, one can meaningfully talk about a modern or Westphalian political-economic system structured in terms of unambiguous territorial jurisdiction, or the transition from modern to post-modern organizations in terms of the disintegration of “Fordist” vertically integrated hierarchical firms, without assuming a postmodern epistemology.

At the start of the twenty-first century a post-modern global economy is situated in a political system which is still grounded, at least conceptually, in modernity. As noted above, in many of the industries now regarded as strategic, the minimal market size needed to support a competitive research and development effort is larger than even the largest national markets; they are no longer the basic structural unit of the global economy.

Perhaps of more fundamental importance is the fact that most of the concepts we use to understand international politics are still organized in terms of territory and borders. Economic activity, on the other hand, is increasingly organized in terms of electronic networks. The result is a developing asymmetry of scope and mode of organization between a modern, territorially based, and geographically organized international political system comprising nation-states, and an emerging post-modern world economy where national markets and, indeed, the very concepts of territoriosity and geography are becoming less relevant.

That being said, two caveats are necessary. First, as I will discuss below, the international political system is also in the midst of traumatic change. As is discussed elsewhere in this volume, non-state and non-territorial actors are emerging which wield significant “private” political authority. Second, neither the international nor the global world economy is all-encompassing. Many sectors of economic activity are still domestic and little affected by crossborder transactions; many others remain grounded in a crossborder or international economy. While the focus of this chapter is on post-modern as a historical period rather than postmodern as an epistemology, the simultaneous existence of domestic, international, and global economies would not be inconsistent with the latter.

\textbf{Back to the future}\textsuperscript{102}

Geoffrey de Joinville, a thirteenth-century French medieval lord, acquired a considerable portion of Ireland through a “strategic alliance.” His half-sister’s husband – the uncle of the queen of England – arranged a marriage with Matilda, granddaughter of Walter de Lacy, Lord of Meath, who
Stephen J. Kobrin

brought substantial Irish lands with her. After his marriage, de Joinville owed simultaneous allegiance to the kings of England and France.

As E. H. Carr argued many years ago, it is difficult for contemporary observers to even imagine a world in which political power is organized on a basis other than territory. However, neither de Joinville’s fiefdoms nor the international financial market are modern, geographically based forms of political or economic organization. Political control in one case and economic transactions in the other are organized without regard to mutually exclusive geography or meaningful and discrete borders. To a large extent both pre- and post-modern forms of organization are aterritorial.

Over twenty years ago Hedley Bull argued that the emergence of a modern and secular counterpart of Western Christendom, with its characteristic overlapping authority and multiple loyalties, was within the realm of possibility. The post-modern future may well resemble the medieval past more closely – at least metaphorically – than the more immediate, geographically organized world of national markets and nation-states. Although medieval “states” occupied geographic space, politics was not organized in terms of unambiguous geography. Political authority took the form of hierarchical personal relationships, often overlapping and intertwined mutual obligations and rights, as de Joinville well illustrates. Borders were diffuse, representing a projection of power rather than a limit of sovereignty. In that context, power and authority could not be based on mutually exclusive geography.

The Middle Ages lacked the singular relationship between authority and territory characteristic of the modern era; geographic location did not determine identity and loyalty. Overlapping and competing political authorities were the norm rather than the exception. At times, the spheres of pope, emperor, prince, and lord were all interwoven and comprised complex aterritorial networks of rival jurisdiction.

Citing other sources, John Ruggie describes the medieval system of rule in terms of a “patchwork” of overlapping and incomplete rights of government which were “inextricably superimposed and tangled.” He labels the medieval institutional framework heteronomous, connoting a “lattice-like network of authority relations.” These overlapping, interwoven, and incomplete systems of authority often resulted in competing claims to the same geographic area.

To assert singular territorial authority, early modern monarchs had to exert primacy over a patchwork of dukedoms, principalities, and other localized authorities as well as transnational institutions such as the papacy and monastic and knightly orders. Until that was accomplished, the
concept of an unambiguous relationship between authority and territory was unknown.

Sovereignty – in its modern sense – is unambiguous political authority. The underlying idea of the modern political system is exclusive authority over a discrete geographic space, which entails the absence of both domestic competitors and extraterritorial superiors. It implies that the state is the ultimate domestic authority and bows to no external power, be it pope or emperor.107

Singular territorially based authority is once more becoming problematic in our emerging post-modern global political economy. States are no longer the sole sources of legitimate authority; in fact we face a world of overlapping and ambiguous “authorities” which may shift as the context changes. As noted above, MNEs and markets are one source of authority in the international system and NGOs and other civil society groups another. There are times when significant international political negotiations have involved these two sets of actors, with states on the sidelines.

An excellent example is the battle over the price of AIDS drugs in Africa and other poor regions in late 2000 and the spring of 2001. After considerable negotiation and pressure from a variety of well-organized groups, the pharmaceutical companies offered to reduce dramatically the price of “AIDS cocktails” in South Africa and a number of other African countries. What is of interest here is that the primary negotiators were the private sector – pharmaceutical multinationals – and NGOs including Doctors Without Borders/Médecins Sans Frontières and a range of AIDS activists. The principal actors were private authorities rather than states.108

While the medieval analogy has very obvious limits, the past may well contain applicable lessons for the future. A neat, unambiguous ordering of economic and political authority along geographic lines may no longer be the norm. Borders are diffuse and permeable, compromised by transnational integration and global telecommunications. Relationships are increasingly networked rather than hierarchical with both individuals and organizations enmeshed in complex, polygamous worldwide webs. Multiple and competing loyalties result.

James Rosenau foresees the emergence of a dual system of sovereignty-bound and sovereignty-free actors – or state-centric and multicentric worlds – coexisting together. “The result is a paradigm that neither circumvents nor negates the state-centric model but posits sovereignty-bound and sovereignty-free actors as inhabitants of separate worlds that interact in such a way as to make their coexistence possible.”109
One of the primary characteristics of modernity is a lack of ambiguity. The international political system is structured in terms of discrete and mutually exclusive geography: disputed border areas aside, every point in geographic space belongs unambiguously to a single nation-state and market. With very few exceptions every individual under the law, including every corporation, is a citizen of a single state. Similarly, the essence of the modern integrated economic organization is a clear hierarchy and a single chain of command: one boss, one company. Every individual, and every transaction, can be located in organizational space.

We may well be at a point of transition comparable to what Ruggie describes as the “most important contextual change in international politics in this millennium: the shift from the medieval to the modern international system.” The emergence of an electronically networked global economy may herald an analogous transition to a post-modern political-economic system.

There is, however, a danger in trying to project modern assumptions into a post-modern era. Linearity or unrepeatable time is basic to modernity. We assume that time’s arrow is unidirectional and that progress is irreversible; that there is a historic progression from classical to medieval to modern to – perhaps – post-modern. That assumption may be wrong.

The state?

This chapter has argued that globalization will markedly constrain the autonomy and effectiveness of states and, at a minimum, raise serious questions about the meaning of internal and external sovereignty. One point should be clear: I am not claiming that the state will wither away or even be rendered impotent. Rather, I argue that globalization will affect the structure and functioning of both states and the interstate system.

At a minimum, states will be still be responsible for any number of critical functions: for the welfare of their citizens, for basic social and physical infrastructure, and for insuring economic viability, albeit in a very different context. Furthermore, while globalization will transform relatively large number of critical, strategic sectors, it certainly does not affect all sectors, firms, and individuals equally. There will still be firms that function as domestic actors and those that function in a more traditional international or crossborder economy.

There is no question, however, that the meaning of sovereignty will evolve and that the state’s role relative to supranational and subnational actors will change. The medieval analogy is useful. It should be clear at this point that I agree with Hirst and Thompson that the political order is becoming more polycentric, with states seen as one level in a
very complex system of often overlapping and competing agencies of governance.\textsuperscript{112} As discussed elsewhere in this volume, states are no longer the sole source of political authority; private political authorities have emerged and coexist with public authorities in an complex, interwoven, and ambiguous relationship.

There is certainly some recognition of the need for some sort of control at the center. The World Trade Organization (for example) has been given greater adjudication powers than its predecessor (the General Agreement on Tariffs and Trade). Furthermore, regional agreements such as the European Union, the North American Free Trade Agreement (NAFTA), and the Association of South East Asian Nations (ASEAN) appear to be proliferating. The progress of the EU to this point, including the successful adoption of a common currency, has major implications for state sovereignty.

At the same time, there appears to be increasing pressure for devolution of powers downwards to subnational entities, whether they are individual states in federal systems such as the United States or regions within Europe. The situation is complicated further by the rise of non-governmental organizations (NGOs) as important actors in international politics; one thinks immediately of Greenpeace in environmental politics or Amnesty International in human rights.

The modern system of political and economic organization may well have been an exception. There is no reason to assume that a lack of geographic ambiguity, or even of territoriality itself, is inherent in the human condition.\textsuperscript{113} The post-modern era may well resemble the medieval in terms of ambiguity, multiple loyalties, multiple levels of authority, and the coexistence of multiple types of political and economic actors. It is certainly consistent with a post-modern world view to reject the “modernist narrative of progress” and “embrace many simultaneously different and even contradictory accounts of reality.”\textsuperscript{114}

A medieval lord dealt with allegiances to multiple sovereigns, perhaps an emperor, and the coexistence of secular and sacred authority as the norm. Is there any reason a post-modern person could not deal with subnational, national, regional, international, civil society, and supranational “authorities” simultaneously? Or with multiple and ill-defined allegiances? Or with a system ordered on some basis other than geography?

This chapter has argued that globalization entails the technologically driven expansion of the scope of markets well beyond the limits of even the largest national territories, the replacement of markets and hierarchies by relational networks as the mode of organization of international economic transactions, and the migration of markets to cyberspace. Globalization signifies the emergence of a post-modern world economy that is not
consistent with a modern, territorially defined, international political system. While the emerging asymmetry could be resolved by some sort of “world order,” that is not likely in the foreseeable future. Modern economic and political actors will have to learn to deal with the ambiguity and uncertainty of the post-modern future.

NOTES


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14 The Oxford English Dictionary attributes its first use to Bentham in 1780 in a discussion of international jurisprudence, in which he explicitly states that the word is a new one.


29 Garai, “Leveraging the Rewards of Strategic Alliances.”

30 Mytelka, *Strategic Partnerships*.

31 Raymond Vernon argues that this is the primary motivation for the current wave of strategic alliances: letter to the author, November 1993.

32 Again, while generalization is difficult, existing data do appear to support technology as the dominant driver of interfirm cooperative agreements. An OECD report, for example, sums evidence from “one of the best data banks” to conclude that R&D cooperation represents the single most important objective of interfirm agreements: Organization for Economic Cooperation and Development, *Technology and the Economy: The Key Relationship* (Paris: OECD, 1992). Similarly, in reviewing a number of empirical studies, Mytelka concludes that knowledge production and sharing is an increasingly important component of strategic partnerships: Mytelka, “Crisis, Technological Change and the Strategic Alliance,” p. 9.


35 A caveat is necessary. Although the growth of alliances has been dramatic over the past decade, their presence is not universal. While the data are still
Economic governance in global economy fragmentary, alliances appear to concentrate in industries characterized by technological or capital intensity. It should be noted, however, that these industries (e.g., aerospace, semiconductors, telecommunications, and automobiles) are the most important strategically in terms of national economic competitiveness and security.

39 Dicken, “Roecke Lecture.”
45 Financial Times, 1 December 1999.
50 These characteristics and much of the discussion is drawn from Lynn Krieger Mytelka and Michel Delapierre, “Strategic Partnerships, Knowledge-Based Networks and the State,” in Cutler, Hauffer, and Porter, Private Authority and International Affairs, pp. 129–49.


54 Dicken, “Roepke Lecture.”


59 OECD, Technology and the Economy, p. 78 (emphasis in original).


61 Powell, “Neither Market Nor Hierarchy,” 300–01.

62 Ibid.


64 Baker, “Market Networks and Corporate Behavior.”

65 Powell, “Neither Market Nor Hierarchy.”

66 Nohria and Eccles, Networks and Organizations, p. 7. See also Wellman and Berkowitz, Social Structures.

67 Castells, Rise of the Network Society, p. 147.

68 Hirst and Thompson, “Problem of Globalization.”

69 Dicken, “Roepke Lecture,” 149.
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71 Hobsbawm, Age of Extremes, p. 135.


82 Spruyt, Sovereign State and Its Competitors, p. 35.


84 Ruggie, “Territoriality and Beyond,” 151.


87 As Braudel notes, their development was far from spontaneous: “The national market was a form of coherence imposed by both political ambitions… and by the capitalist tensions created by trade… a political space transformed by the state into a coherent and unified economic space… a large-scale economy, territorialized so to speak, and sufficiently coherent for governments to be able to shape and maneuver it to some extent”: Braudel, Afterthoughts, p. 99, and Braudel, The Perspective of the World Civilization and Capitalism: 15th–18th Century, vol. III (New York: Perennial Library, Harper and Row, 1986), pp. 277, 294.


90 Ibid., p. 119.


93 Holland and Dwyer, “Technobanking Takes Off,” 52–53.


96 Peter Dombrowski and Richard Mansbach, “From Sovereign States to Sovereign Markets?” (working paper, Department of Political Science, Iowa State University, 1998), p. 4.

97 Camilleri and Falk, End of Sovereignty?, p. 11. Similarly, Ruggie argues that the concept of sovereignty is no more than the “doctrinal counterpart of the application of single-point perspectival forms to the spatial organization of politics”: Ruggie, “Territoriality and Beyond,” 159.


100 Paul Kennedy,Preparing for the Twenty-first Century (New York: Random House, 1993), and Ruggie, “Territoriality and Beyond.”
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101 Martin Parker, “Post-modern Organizations or Postmodern Theory?”
102 See Stephen J. Kobrin, “Neo-Medievalism and the Post-Modern World Economy” *Journal of International Affairs*, 51 (2) (Spring 1998), 361–87, for an article-length discussion of this theme. Parts of this section are taken from that article.
105 Bull, *Anarchical Society*.
107 Spruyt, *Sovereign State and Its Competitors*.
111 Camilleri and Falk, *End of Sovereignty*?
112 Hirst and Thompson, “Problem of Globalization.”
113 Ruggie notes at least three ways in which systems of rule have differed from the modern territorial state. First, they need not be territorial at all; second, they need not be territorially fixed; and third, they may not entail mutual exclusion: “Territoriality and Beyond,” 49.