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Prospects for the World Economy

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To help get our bearings in a complex and ever-changing world, it is useful to ask what the world will look like in a decade or two. Forecasting the future accurately is of course impossible. And of course we cannot forecast surprises, by definition. But by projecting known trends and tendencies, it is possible to say a remarkable amount about the broad outlines of the world one to two decades from now. In particular, we can identify with high confidence four factors which we hardly notice from year to year, but which accumulate relentlessly over time, such that by 2015 they will have profoundly transformed the world as we now know it. The four factors are population growth, growth in per capita income, increasing international mobility among national firms and individuals, both made possible and driven by technological changes in transportation and communication, and the aging of existing political leaders (as well as everyone else). For concreteness, I will focus below on the year 2015, sixteen years from now. The year should not be taken literally, but as the rough mid-point of one to two decades from now. That looks beyond the immediate

issues of today, and allows the cumulation of small annual changes in the trends mentioned above. But it is also a comprehensible distance into the future, the same distance as the year 1983, which many adults can probably remember, is into the past.

A Celebration of the Past Half Century

But before turning to the future, I want to make some celebratory remarks about the past, the last half of the 20th century. Our daily newspaper and TV fare gives the impression that we lurch from one crisis to another, whether it be Thailand or North Korea or Kosovo. From mid-1997 the world experienced a series of financial crises, from Thailand through Malaysia and Indonesia and Korea, then Russia and Brazil in 1998 and early 1999. Japan experienced its first serious post-1945 economic recession.

It is therefore worthwhile from time to time to stand back from the immediate, pressing issues of the day to appraise how far the world has come since, say, 1950. The overall economic performance during the past half century has been nothing short of fantastic, in the literal sense: if someone had forecast in 1950 where the world economy actually was in 1995, he would have been dismissed as living in a world of fantasy. (Not only economic performance: Europe experienced its longest period of peace since the Roman Empire.)

The immediate antecedents to 1950 were the Great Depression of the 1930s and the Second World War from 1939 (1937 in the Pacific) to 1945, followed by painful recovery in Europe, Russia, China, and Japan. Those disasters reflected in part a failure to construct a cooperative world following the First World War. The Anglo-American planners of the 1940s determined to do better. With help from representatives from other countries they created the United Nations, with its Security Council, plus a collection of economic institutions including the International Monetary Fund (IMF) and the World Bank, and laid the philosophical basis in the General Agreement on Tariffs and Trade (GATT) for what in 1995 became the World Trade Organization (WTO).

The basic philosophy underlying the United Nations is that threats to the peace anywhere in the world are of legitimate interest to all nations, and that collective action could be undertaken to preserve or restore peace. The basic philosophy of economic arrangements, against the background of the catastrophic Great Depression, was that national governments should take responsibility for stabilizing national economies and for ensuring high employment (something that was seen to be possible in light of the Keynesian revolution in economic thinking, with its emphasis on the potential of fiscal policy for economic stabilization); and that countries should avoid beggaring their neighbors through

restrictions on international trade. Thus procedures were put in place, in the form of the IMF and the GATT, to eschew many forms of trade and payments restrictions, and to reduce over time the restrictions on imports that many countries inherited from the 1930s.

Stabilization of national economies and liberalization of trade together have resulted in outstanding economic performance, both in the rich (mainly northwestern Europe and North America) countries and in the initially poor (developing) countries. World per capita income increased by 2.2 percent a year from 1950 to 1990, much higher than in any previous period, including the rapid industrializing period of the late 19th century. (Table 1 shows data from 1820 to 1990.) The average world citizen had an income nearly two and a half times larger in 1990 than it was in 1950. What many forget -- or never knew -- is that several of today's rich countries were poor 50 years ago -- Japan, Italy, Spain, to name three large ones. South Korea was considered economically hopeless. As these examples illustrate, economic development has occurred with economic growth, not only here, but in many other countries as well.

Table 1

Growth in Per Capita Income

(percent per annum)

| | |
|-----------|-----|
| 1820-1870 | 0.6 |
| 1870-1913 | 1.3 |
| 1913-1929 | 1.0 |
| 1950-1990 | 2.2 |

Source: calculated from Maddison (1995)

During this period other measures of human well-being also improved: the spread of contagious diseases was brought under better control; infant mortality dropped dramatically; longevity increased. Health and nutrition improved in most places. Smallpox, once the scourge of mankind, was banished entirely.

Partly for these reasons, world population grew during this period more rapidly than ever before, more than doubling (1.9 percent a year). Prices also rose substantially, attributed by some to the uncritical adoption of Keynesian economic policies. In the United States the consumer price level was five times higher in 1990 than it was in 1950 (4.3 percent a year, on average), and most other countries experienced even greater increases.

International trade outpaced the growth in economic output, growing more than 6 percent annually, partly a result of a cumulatively dramatic, but temporally gradual, drop in import

protection over the period following eight rounds of multilateral tariff reductions. By 1995 tariffs on manufactured goods into the rich countries were only about ten percent of the levels they were in 1947, the year of the first multilateral round; the eighth was the Uruguay Round, concluded in 1994. International capital movements, stifled by the defaults of the 1930s and the disruptions of the Second World War, recovered more slowly, but by the 1990s extensive trans-border investment also occurred.

The dominant economic characteristic of the late 20th century is that technical change, which has been occurring at a rapid pace for two centuries, has been institutionalized. Processes and incentives have been established in the world's rich countries to ensure the search for new, useful ideas, even in the absence of a particular focussed objective. This institutionalization ensures a constant flow of new practical ideas, many of which, once introduced, are irresistible. Consider how rapidly the fax machine spread; for those who have now become accustomed to it, life without fax is hard to imagine (although even the venerable fax is being replaced in many uses by email). But that is only one of thousands of new ideas, embodied in products and processes, that have been introduced over the past decade.

These new technological ideas, combined with social order and the trained human beings who generate and apply them, are the basis

for modern economic prosperity. Territory, resources, raw manpower, and military might play a much smaller role than they did in earlier, less successful eras.

The competitive system in which these new ideas are generated and introduced is one of controlled chaos: chaos because no one is in charge -- tens of thousands of people are making decisions that will over time affect billions of people; controlled in the sense that they operate within a defined social, economic, and legal order, and the results of their collective behavior within that framework create a comprehensible if somewhat turbulent environment.

Forecasting the future accurately is difficult. It is possible, however, to identify some factors which we hardly notice from year to year, but which accumulate relentlessly over time, such that by the end of two decades will have profoundly transformed the world as we now know it. We turn now to population growth, growth in per capita income, and improvements in computation and communication that will increase international mobility among national firms and individuals, reducing economic and ultimately cultural differences among different parts of the globe.

Population Growth

Between 1965 and 1990 the world's population grew by 2000 million persons, or about 1.9 percent a year. Some slowdown in population growth occurred toward the end of this period, especially in China and in a number of middle-income countries, such as South Korea, as well as in the industrialized countries. But China was the exception among low income countries. Population growth normally accelerates at first after a country begins to experience increases in per capita income, as longevity increases, as child-bearing ages are lengthened, and especially as infant mortality rates fall with better nutrition and medical care. A slowdown in population growth usually occurs only after per capita income reaches around \$1000, when modes of production change, parents realize that their children are likely to survive beyond infancy, and parents become better informed about family planning techniques. Outside China, there are still over two billion persons living in countries with average per capita incomes below \$1000, mostly in Africa and South Asia. Even if global population growth slows by a substantial 0.4 percentage points, to 1.5 percent a year, the world population would still reach 7.5 billion by the year 2015, an increase of two billion from 1995.

More people mean more demand for energy -- for warmth, food preparation, illumination, motive power, and production processes; more demand for food; more demand for fresh water; and more demand

for housing and other forms of capital. It would take extraordinary efforts of a nature and magnitude not generally contemplated to alter this demographic projection significantly, although more efforts now could have significant effects beyond 2015.

Almost all this population increase will be in relatively low income countries.¹ And most of the growth will occur in cities. Indeed, during the next decade the world will switch from having a majority of rural dwellers to having a majority of urban dwellers, with implications for housing and other urban infrastructure, and with concentrations of people that make political action easier.

Demographic trends in Europe, Japan, and Russia, in contrast, suggest slow or even negative growth and a marked aging of those societies, with profound implications for the fiscal sustainability of the government entitlements that have been conferred on their publics. (China too will age on the basis of its current population policies, but only later, after adding another 350 million people because of the large number of women still in child-bearing age.) Before 2010 over 20 percent of the population will be 65 or older in Italy, Japan, and Germany, somewhat later in France and Britain. Indeed, thanks both to increased longevity and

¹ On the "medium" scenario of the UN population projections, the population of the OECD countries will fall from 21 percent of the world's total in 1990 to 15 percent in 2025; Europe's share will fall from nine to six percent over the same period of time.

to declining natality in all the rich countries, the ratio of working age population to those over 65 will decline from 5.0 in 1990 to 3.5 by 2015. Projections further out, to 2050, on the basis of these trends suggest an absolute decline in the population of Japan to 105 million, 17 percent below the 126 million of 1998. Even greater percentage declines are projected for Russia, Ukraine, Spain, and especially Italy (at 28 percent). Peacetime declines in population are way outside our range of experience since the beginning of the industrial revolution around 1800; it is unclear how these societies will adjust to both the aging and to the decline in total population. Demand for schools will decline, and land will become more readily available; caring for the aged will become more demanding.

Like Europe and Japan, the United States and Canada have also experienced a decline in natural population growth, but over the years they have been far more receptive to immigration and thus can replenish their young adult population with willing immigrants from countries with more rapidly growing population.

Higher Per Capita Income

The second dominant feature of the world economy is the all-but-universal aspiration for higher standards of living in all but the richest parts of the world. In this respect the world has been

westernized; it has absorbed the notion and the expectation of material progress. So in future there will not only be more people, but more people wanting higher standards of living. And we now know how, in principal, to achieve higher standards of living: install a stable social system with incentives for effort and risk-taking. Most of the world does not need to generate new technology or even savings to grow -- increasingly those can be borrowed from the rest of the world. But it does require extensive investment in both physical and human capital; of the two, the latter is both more important and more difficult. Thus the state continues to play a key role in economic development, in providing for social order, proper incentives for effort, saving, and risk-taking, and widespread education. But it does not have to play the role of entrepreneur, investor, and manager as well. Indeed, in these roles, widely espoused in many countries in the 1960s, it is likely to inhibit development.

Economic growth everywhere implies economic and social change, and change almost invariably involves some losers even in an environment in which change is being generated by economic growth. Change involves stress and even duress. Established enterprises have extensive investment in existing ways of doing things -- in their machines, their people, and their organizational hierarchy. It is much easier simply to carry on in established patterns than

to change, and that is what most organizations, including business enterprises, prefer. Yet in western societies these business enterprises are, paradoxically, the principal instruments of economic change. They change because they feel compelled to do so by competition, by fear of losing their customers to other firms. The more far-sighted ones change on their own, to stay ahead of their actual or potential competitors. But for many firms and individuals change is disagreeable. Individuals can find that once-promising careers are now dead-ends, that once-learned skills are now obsolete. Some individuals adapt well, others do not. This is the essence of what Austrian-turned-American economist Joseph Schumpeter called creative destruction, and it is a process that, over time, has made the average individual in western countries unbelievably well off when viewed from the perspective of forebears only three or four generations earlier.

This is a lesson that former and current communist countries will have to learn if they wish to modernize their economies, and it will not be an easy or agreeable lesson, since it runs against the strong apparent preference in many of those countries for stability throughout one's life. It also is being learned in many developing countries, where it carries the possibility of social upheaval, since it is not possible to modernize economic activity and norms without also altering both norms and expectations in

other areas as well, as Chinese leaders have discovered but to which they have not yet become reconciled.

Can the earth feed an additional two billion people? The answer is certainly affirmative. The scope for further extensive agriculture -- adding cultivated land -- is limited; but yields can continue to increase on existing cultivated land. Average yields are far below best practice, and best practice is continually improving, as we learn more about what nutrients plants need at each stage of their life cycle. Irrigation can be extended, where water is readily available. (Water scarcity in some regions of the world, however, will limit the scope for intensifying agriculture in those regions, such as the Middle East and northern China.) Moreover, growing knowledge about genetic engineering will permit more disease-resistant and insect-resistant plants, and even drought-resistant plants. The efficiency of livestock feeding can be further increased. While we are reaching the practical limits of harvesting native fish from the oceans, aquaculture can be extended to increase yields from the sea.

Historically, economic growth is associated with an enormous growth in demand for commercial primary energy. In the two strong decades following 1950 the demand for primary energy in the 24 now rich countries of the Organization for Economic Cooperation and Development (OECD) more than doubled; in the two decades following

1960 the demand for primary energy in the centrally planned economies increased by a factor of nearly 2.5; and in the two decades following 1965 the demand for primary energy in the developing countries trebled. If gross world product doubles over the next two decades (1.5 percent a year in population and 2.0 percent in per capita income, for 3.6 percent total), the demand for primary energy on historical relationships between energy and growth would rise by over 60 percent over present energy consumption. Put another way, improvements in the energy efficiency of the world economy must be 2.4 percent a year if we are to avoid increased demand for primary energy over current levels.

Modern economies are still based heavily on energy, even though the efficiency with which it is used is improving steadily and is vastly greater than it was 25 years ago, before the 1973 oil shock. Developing countries, in particular, rely increasingly on hydrocarbon fuels as they move from subsistence to manufacturing economies. Oil is still the unmatched fuel for transportation, and with modernization the demand for transportation increases more than proportionately. (Synthetic oil can be made from coal and from natural gas, but it remains uncompetitive with petroleum in cost.)

Assuming a more modest world growth rate of 3 percent over the

next two decades (real gross world product would be 82 percent higher in 2015 than it was in 1995), the US Department of Energy projects the world demand for oil to grow by 30.4 million barrels a day (mbd) between 1995 and 2015, or by 44 percent (rather less than the 49 percent growth in total energy demand). Of this increase in demand, only 7.5 mbd are projected to take place in today's rich countries of Europe, Japan, and North America; the remaining 22.8 mbd increase will arise in today's relatively poor countries, of which in turn 14.1 mbd arise in Asia (excluding Japan). China alone will increase its demand for oil, and its imports, by 5 mbd.

The world will not, perhaps surprisingly, have difficulty supplying this increase in demand for oil. Technological developments have greatly improved the prospects and reduced the costs of exploring for and developing new oil wells, both on land and under water. But the most economical oil remains in the Persian Gulf region, and if the countries of that region are willing to undertake the necessary investments in exploration and development, this great increase in demand can be satisfied at only modest increases in price. (The DoE reference case projection assumes a price, in 1994 dollars, of \$25.43 a barrel in 2015; other forecasters assume an even lower price.)

On these price and investment assumptions oil production

outside of OPEC will grow by less than 3 mbd between 1995 and 2015, leaving 28 mbd to come from OPEC countries; of these, only Venezuela outside the Persian Gulf region can be expected to be a significant contributor, leaving over 25 mbd of the increase -- nearly equal to total OPEC oil production in 1994, of which 18 mbd from the Persian Gulf -- to come incrementally from the Persian Gulf countries. If these projections are realized, world oil production coming from the Persian Gulf will rise from 29 percent in 1994 to over 46 percent in 2015. Demand for oil tankers will also rise sharply.

We know from the experiences of 1973-74 and 1979-80 that a several-fold rise in oil prices, generated by an actual or an anticipated shortage of oil (world oil production did not fall in 1979, following the Iranian revolution and a decline in Iran's output, but anticipation of shortages led to extensive build-up of stocks), can play havoc with the macroeconomics of countries around the world, being largely responsible for the "stagflation" (deep recession combined with inflation) of the 1970s and the developing country debt crisis of the 1980s. So the damage from disruption in the flow of oil can be severe.

Higher growth will also affect the environment. The effect will be mainly unfavorable in low income countries, with their eye mainly on raising incomes. It will be mainly favorable in higher

income countries, as publics protest the foul air or water they must endure, and revenues are increasingly devoted to improving local environmental conditions. Greatly increased use of fossil fuels will of course increase emissions of carbon dioxide, thus contributing to future global climate change, but such change will be hardly noticeable during the next few decades.

Continuing Advances in Computation and Communication

The third driving factor for the world economy will be the continuing revolution in computation and communication. Two decades from now the costs of computation and long-distance communication will once again have fallen by more than 90 percent, making them nearly "free" by today's standards. This will lead to much greater integration of the world economy, in the specific sense that business enterprises will increasingly take, and will be driven by competition to take, a more-than-regional or national perspective in framing their business decisions. This has been true of markets for produced output and sources of supply for a long time, and of sources of capital for the past two decades. But it will be increasingly so also for the location of production and the related issue of labor force. The secular decline in transportation costs, especially of air freight and bulk carriage, implies they are no longer a decisive factor for location of

production of many goods. Not only Persian Gulf oil but also South African coal and Liberian iron ore can be moved long distances to market. Cheap long distance communication means that the "back room" activities of financial and other businesses can take place at great distance from headquarters, e.g. in Ireland or India when the front office is in New York or San Francisco. Under these circumstances many industries in principle become footloose, able to locate at a variety of convenient places. They seek an inexpensive labor force able to meet the required skill qualifications, social stability, and a tax and regulatory environment favorable to low production costs. These developments imply that a country far out of line in one dimension that is not adequately compensated in some other dimension will lose those economic activities that do not require close proximity to markets.

Most importantly, information of all kinds will flow more cheaply and more quickly around the world than has ever been the case. This is true not only for scientific, financial, and political information, but also for technological, marketing, and cultural information. It will be ever more difficult for governments to insulate determined publics from obtaining information from abroad, even when the information is detrimental or even threatening to the governments in question.

The influence of higher mobility should not be exaggerated.

The managers of many enterprises still have strong ties of loyalty to their home society and culture, they have useful but specialized knowledge about how best to operate in a familiar political environment, and they are subject to the inertial forces that attend most human action. Recent research has shown that even so-called multinational firms undertake two-thirds of their investment in the home country. But the trend is clear: competitive pressures are eroding these factors, and more and more firms are moving some of their activities away from their historical bases. As always in economics, it is decisions at the margin, not the typical firm, that determine most outcomes.

Political Succession

One other factor can be predicted confidently over the passage of sufficient time: the death of today's political leaders. For many countries this will make little difference. Most democracies have well-established processes of succession and deeply-rooted political traditions that result in smooth political transitions and substantial continuity in policy, especially foreign policy. Monarchies too have well-established patterns of succession, generally accepted by subject populations, whether by passage to the deceased monarch's eldest son (or, occasionally, to a daughter) or to a crown prince selected by members of the royal family. But

personal dictatorships rarely have an accepted pattern of succession; death of the leader results in a power struggle among would-be successors, sometimes even to civil war. By 2015 several of today's autocrats will be gone: Asad of Syria, Saddam Hussein of Iraq, Castro of Cuba. All these countries have highly uncertain political futures. Suharto of Indonesia is already gone, as a result of the Asian financial crisis, leaving a still uncertain political future for Indonesia, although the interim has been smoother than many imagined. While the evolution of the regime in North Korea is highly uncertain, continuation of current arrangements to 2015 is highly unlikely.

Implications of the Identified Trends

What are the implications of these various developments? The first is that there will be many more "South Koreas" in the future, that is, developing economies that grow rapidly, democratize, and gradually join the ranks of rich countries. The Asian financial crises will be seen by some countries from the perspective of 2015 as adolescent growing pains -- unpleasant when it occurred, but making possible a stronger mature body. The growth of these countries will create some turbulence for others, since their exports will be concentrated in certain industries, thus posing adjustment problems for those industries in more mature economies;

but by the same token their incomes, expenditures, and imports will also grow rapidly, creating market opportunities for industries in mature economies that are poised to take advantage of them. On balance, the development of such economies will also permit even higher living standards in the already rich countries. On plausible projections (2.4 percent growth in the rich countries, 5.1 percent in today's developing countries) the share of the 24 OECD countries of 1995 in gross world product will decline from 75 percent in 1991 to 62 percent in 2015. That is especially true of Japan, whose aging, low population growth, and inhospitability to immigration assures a substantial decline in relative economic importance over the next 20 years.

Second, however, there will also be more "Iraqs" in the future, that is, countries whose leadership judges continued internal stability (at least of their leadership) to depend on aggressive activity toward their neighbors, to acquire resources, to protect ethnic minorities, or simply to keep neighboring countries or their own restless publics off guard. As national incomes rise, all governments will have greater scope for harvesting resources from their publics through taxation. Authoritarian governments can channel disproportionate amounts into military or other expenditures devoted to pursuing an aggressive foreign policy, and we can be reasonably confident that a number of

countries will turn in that direction. Given the advance and spread of military technology, those adventures will be increasingly costly in human terms, and may threaten global peace. Other countries will therefore have to remain sufficiently armed to cope with these potentially aggressive countries, preferably to deter them from going too far in the first place.

If China achieves a plausible but still outstanding annual growth of 8 percent (higher than the 6.6 percent assumed by the World Bank in its recent report on China in 2020, to allow for a likely appreciation of the real exchange rate), China's GDP would reach \$3.3 trillion (in 1995 dollars) in 2015, or about 27 percent of US GDP in that year, and roughly equal to US GDP in 1966. It would be larger than France, but still smaller than Germany and Japan. Chinese per capita income would increase by a factor of 3.7, making Chinese much richer than now (near but below Thailand in 1995), but still poor by world standards. Under these circumstances, China's population will be vastly different from today, with greatly different attitudes, especially among the youth. The first individuals born under the one-child policy will be 35 years old in 2015, and everyone younger will have grown up in an environment of devoted parents, rapid economic growth, hope for the future, and awareness of both future economic and political possibilities. Those seared by the Cultural Revolution will be

above the age of 65, comprising (on past experience) the senior leadership of China. Many of those making up middle management will be drawn from the ranks of the Cultural Revolution's Red Guards, many of whom missed at least parts of their education and now regret the severe harm of their collective actions then.

The high GDP would put the Chinese government in a position, if it can tax effectively, to be a major player on the world scene, in armaments, trade, and foreign aid, just as the USA was in the mid-1960s. But the emphasis of a development-oriented China would be concentrated on continuing requirements for infrastructure -- electric power; water for irrigation and for growing urban areas; roads, airports, and other transportation; urban housing; and heavy demands for higher quality education for everyone.

The aging in Europe will require a re-negotiation of the "social contract" that led to the creation of the modern welfare state in the 1950s and 1960s. Even though Europe is much richer today than it was then, it created entitlements for its citizens, especially for its older citizens, that will be fiscally insupportable under the expected demographic conditions noted above. Publicly provided pensions and health care are generous, and largely on a pay-as-you-go basis. Unfunded pension liabilities are high in all rich countries, ranging (in 1990) from 113 percent of GDP in the United States through 162 percent of GDP in Japan to

an extraordinary 242 percent in Italy. Yet continental European countries are near to the practical limits on taxation, around fifty percent of GDP. With the expected increase in the ratio of aged to working age people, existing entitlements will be unsustainable without severely squeezing normal public expenditures, such as those on defense, education, and research. Taking away perceived rights is difficult in any country, especially democracies. Re-negotiating the terms of the social contract will be a major pre-occupation of European nations in the coming decades.

As incomes rise in developing countries, and as publics become better educated, they expect improvements in their well-being, and these days they expect governments to assure that. In rich countries, the initiatives for change will come from business firms, and increasingly also from non-governmental organizations. In developing countries, much investment is needed in public infrastructure (roads, water and sewage, etc.) and into improved housing -- all intensive in the use of capital. If governments fail to provide adequately for the improved infrastructure, and for social infrastructure such as an ordered society and improved education, people will become restless, and will engage in politically disruptive activities, or they will migrate.

We are likely to see the reassertion of religious, ethnic, and

tribal differences as some states fail to live up to expectations in delivering economic development or public services, as external influences grow, and in some cases as governments are increasingly recognized as predatory. Again, increased migration is likely to eventuate as a consequence of population pressures, state failures, and information from outside the country.

What are the implications of increased interdependence for government economic policy? Individual countries cannot impose stiff regulations and expect to retain the economic activities that are especially hard hit, unless for one reason or another the activities are immobile, or unless the firms in question see an offsetting benefit to themselves flowing from the stiff regulations. Over time, the activity will shift to lower cost locations. With increasingly mobile production, there will be growing conflict between each nation's exercise of its sovereign rights of regulation and its ability to retain the heavily regulated activity.

An analogous problem applies to taxation, especially taxation of corporate income or of interest, dividends, and capital gains on financial investments. Through their pricing on intra-corporate transactions, corporations can shift profits from regions with high corporate profit tax rates to those with low ones, thereby reducing or at least deferring its total taxes. With the

internationalization of two-way communication and of securities trading, individuals can hold their financial investments in many parts of the world, in many names, and thereby avoid national taxation. Indeed, many countries today do not even attempt to levy taxes on the overseas financial earnings of their residents.

The same factors that increase the international mobility of legitimate businesses also increase the international mobility of non-profit non-governmental organizations (NGOs), and of illegitimate business. Organized crime will increasingly operate across national boundaries to confound national police authorities. Criminal groups may even in effect capture a state, using it not to attack its neighbors but to provide a base for planning, a sanctuary, and a place of financial security. Some small states already advertise themselves as no-questions-asked places to bank funds from anywhere. And others (e.g. Panama under Noriega) have been accomplices in the international narcotics trade.

NGOs will also operate increasingly on an international basis, reporting adversely on and even operating in countries that do not live up to their standards on human rights or the environment or animal rights. Some NGOs, as well as official international bodies, will be relied upon to perform locally some of the 20th century functions of government, such as distributing food in times of harvest failure or even providing police protection of sorts.

Such activities may be highly regarded by the local populace, but of course they bring with them information and ideas from abroad as well as goods and services, and their very presence underlines the ineffectiveness of the host government.

High mobility of business enterprise reduces the effectiveness of traditional nation-based regulation, taxation, and law enforcement. But of course governments are not oblivious to this trend. They attempt to cope with the increased mobility in a variety of ways: import prohibitions, extra-territorial reach, deregulation. But they also increasingly recognize the need to cooperate with other like-minded governments, and even sometimes those that are not so like-minded. Cooperation is especially evident in the area of financial regulation, where traditionally domestic agencies, such as the Securities and Exchange Commission and the Federal Reserve, increasingly collaborate with their counterparts to preserve the effectiveness of their (now collective) actions. Tax and law enforcement authorities are also moving toward greater exchange of information. So increased mobility of enterprises, and of organized crime, will also lead to new patterns of cooperation among national authorities, at least at the technical level, and at least among like-minded governments such as those in the G-7. By 2015 these practices in all likelihood will have become habitual.

Where national governments have manifestly "failed," or where they abuse their citizens grossly, or where they provide sanctuary or even encouragement to international terrorism or organized crime, there is likely to be increased external interference in their so-called internal affairs. Such a development raises a whole host of practical and legal questions which the international community is only beginning to recognize, and which it is reluctant to face squarely since the principal interlocutors in such a discussion are the representatives of states. But as it occurs, as it must, the role of the United Nations and other international organizations will increase, and these developments will mark the beginning of the end of the Westphalian state system.