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Working Paper No. 675

The Rise and Fall of Export-led Growth*

by

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New America Foundation

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ABSTRACT

This paper traces the rise of export-led growth as a development paradigm and argues that it is exhausted owing to changed conditions in emerging market (EM) and developed economies. The global economy needs a recalibration that facilitates a new paradigm of domestic demand-led growth. Globalization has so diversified global economic activity that no country or region can act as the lone locomotive of global growth. Political reasoning suggests that EM countries are not likely to abandon export-led growth, nor will the international community implement the international arrangements needed for successful domestic demand-led growth. Consequently, the global economy likely faces asymmetric stagnation.

Keywords: Export-led Growth; Domestic Demand-led Growth; Economic Development; Stagnation

JEL Classifications: F00, F01, F02, F10, F20, F50, O11, O19, O24

I. INTRODUCTION

For the past thirty years development policy has been dominated by the paradigm of export-led growth. That paradigm is part of a consensus among economists about the benefits of economic openness. This consensus has been used to justify globalization.

The Great Recession has surfaced contradictions that were always inherent in export-led growth and globalization and the global economy now confronts a troubling outlook of significant demand shortage. In developed economies the shortage is explicit in high rates of unemployment and large output gaps. In emerging market (EM) economies it is implicit in their reliance on export markets.

This paper argues the case for trade openness and export-led growth was always over-simplified and over-sold. As a result of the widespread turn to openness and export-led growth the global economy confronts an extended period of asymmetric stagnation marked by slower growth in EM economies, stagnation in developed economies, and increased economic tensions between EM and developed economies.

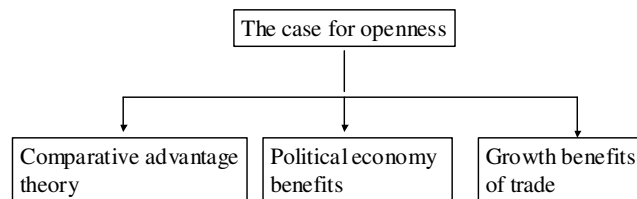
II. THE RISE OF EXPORT-LED GROWTH

The export-led growth paradigm rose to prominence in the late 1970s when it replaced the import-substitution paradigm that had dominated development policy thinking (especially in Latin America) in the thirty years after World War II. Export-led growth is a development strategy aimed at growing productive capacity by focusing on foreign markets. It is part of a new consensus among economists about the benefits of economic openness that took hold in the 1970s.

This new consensus rests on a fusion of three strains of argument that is illustrated in Figure 1. The first strain, based on Heckscher–Ohlin–Samuelson comparative advantage theory, is about the gains from trade between economies with different capital–labor ratios (Ohlin 1933; Samuelson 1948; Dornbusch et al. 1980). The second strain concerns the benefits of openness for controlling rent seeking, a problem that import-substitution development was strongly criticized for (Krueger 1974). The third strain, which

developed later, is the benefits of openness for growth. The claim is trade encourages technology diffusion and knowledge spillovers that contribute to faster productivity growth (Grossman and Helpman 1991).

Figure 1. Arguments supporting the new consensus on openness.



Export-led growth represents a subsidiary branch within this new consensus that applies to developing countries. The argument is self-conscious policy focused on external markets helps capture the economic benefits of openness for developing countries by encouraging best practice adoption; promoting product development; and exposing firms to competition. The success of the four East Asian Tiger economies (South Korea, Hong Kong, Singapore, and Taiwan) appeared to provide empirical support for these claims.

According to economists, export-led growth generates a win-win outcome for developing and industrialized economies. All benefit from the global application of the principle of comparative advantage, while developing countries gain extra benefit from an external focus. Moreover, industrialized economies supposedly benefit even if developing countries subsidize their exports so as to win additional exports. That is because countries which subsidize their exports are giving a gift to countries receiving those exports. However, that latter claim rests on two highly questionable assumptions. First, there is no long-term dynamic cost to industries displaced by such subsidies. Second, there is scarcity of resources and full employment (i.e. no Keynesian unemployment) which makes the subsidies a gift.

These arguments about the benefits of trade and economic openness played an important role in propelling the new agenda of international economic integration. That is because they dovetailed with the economic interests of large corporations who were looking to establish a new global economic structure that has since become known as globalization. Corporations therefore embraced economists' ideas as they helped power their global economic agenda. That created a corporate–elite opinion alliance which bonded trade theory with corporate globalization, and that alliance drove expansion of the GATT and the subsequent establishment of the WTO in 1996.

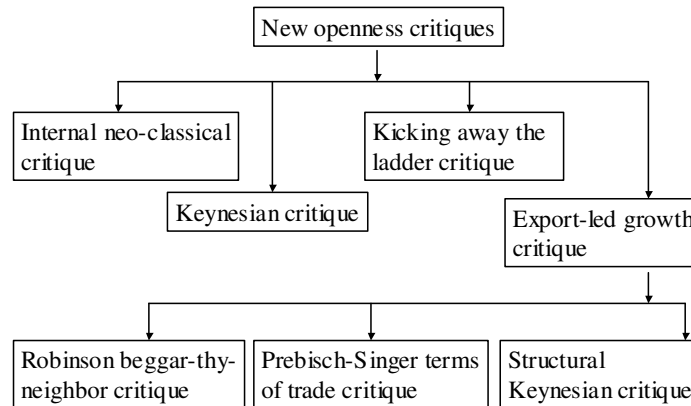
With regard to developing countries, the IMF and World Bank played a special role spreading the new agenda. That is because developing countries needed financial assistance after the 1970s oil shocks, and the IMF and World Bank made access to assistance conditional on governments embracing the openness agenda.

III. CRITIQUES OF THE NEW OPENNESS AGENDA

Though the new “openness” agenda swept academic economics, it was also always opposed and the insights and arguments of this opposition have become increasingly prescient. Figure 2 identifies four strains of critique of the openness paradigm. The first strain is the comparative advantage critique. There has always been a small internal neoclassical critique that focuses on potential pathologies of trade liberalization. These pathologies included Johnson's (1954, 1955) terms of trade deterioration critique; Bhagwati's (1958) immiserizing growth critique that extended Johnson's critique to a dynamic context; the Stolper–Samuelson (1941) critique about trade and income distribution; and Lipsey–Lancaster (1956) based critiques about unintended negative effects of trade liberalization in a world of market imperfections (see for example Brewer 1985). However, this internal critique is a collection of rare pathologies and in many regards it is a confusing distraction to more systemic critiques. That is because it accepts the fundamental logic of neoclassical trade theory rather than challenging it.¹

¹ Progressive activists sometimes appeal to arguments such as the Stolper-Samuelson (1941) theorem to criticize free trade. This is a dangerous tactic as it implicitly accepts the logic of neoclassical trade theory

Figure 2. Critiques of the new openness agenda.



The second strain is labeled the Keynesian critique and it has its roots in macroeconomics and Keynes rejection of comparative advantage (Milberg 2002; Prasch 1996). In a Keynesian world of demand shortage trade can reduce domestic demand, leading to reduced output, employment, and national welfare. An implicit corollary proposition is that in a Keynesian world export subsidies are not a gift but may instead poach demand and employment.

The Keynesian aggregate demand shortage critique also makes exchange rates a trade issue because undervalued exchange rates impact demand by altering the relative price of imports and exports. Classical open economy macroeconomics, which is the twin of neo-classical trade theory, asserts any employment effects of under-valued exchange rates are at worst temporary. That is because monetary factors are supposedly neutral. Either the real exchange rate adjusts to offset the effects of money, or the money supply adjusts via the specie-flow mechanism in response to trade deficits. However, this logic falls apart if there are hysteresis effects related to patterns of demand and the organization of production (Palley 2003a). In that case exchange rates are non-neutral in both the short- and long-run, and these non-neutralities make the benefits of trade contingent on appropriate exchange rate arrangements. Absent such arrangements trade may reduce welfare.

with its claims about the benefits of trade arising from application of the principle of comparative advantage.

The Keynesian demand shortage argument also carries over to situations with economies of scale. In the presence of economies of scale, measures that increase demand (including protection) can increase exports by lowering the average costs of producers. That can provide another reason to limit free trade (Krugman 1984).

The third strain of critique is labeled “kicking away the ladder” after the book of that title by Chang (2002). This critique traces back directly to the post-World War II import-substitution school of thought and argues trade protection, industrial policy, and the ability to conduct macroeconomic policy are necessary for successful development. Chang (2002) argues no country has successfully industrialized without such policies. Whereas the Keynesian critique of openness is generic and holds for both developed and emerging market economies, the kicking away the ladder critique applies only to emerging market and developing economies.

The fourth strand of critique is specifically about export-led growth and it consists of three separate elements. The first element is labeled the Robinson beggar-thy-neighbor critique after Joan Robinson’s (1947) observations about macroeconomic mercantilism. This argument is Keynesian and stems from the competitive devaluation experience of the 1930s. The logic is countries that try to export their way out of demand shortage implicitly harm their neighbors by poaching demand and employment. Applied to export-led development, the Robinson critique suggests there may be a fallacy of composition and developing countries may crowd out each-others exports (Blecker 2000; Palley 2003b; Blecker and Razmi 2010).

The second element is labeled the Prebisch (1950)–Singer (1950) critique. It focuses on supply and price effects of export-led growth in contrast to the Robinson critique which focuses on demand and quantity effects. Sixty years ago Raul Prebisch (1950) and Hans Singer (1950) identified a problem of declining terms of trade for commodity exporting countries. Today, the problem has shifted from commodities to manufactured goods and countries that engage in export-led growth may exacerbate the problem by increasing the global supply of such goods (Sarkar and Singer (1991); Kaplinsky (1993); Sapsford and Singer (1998).

The third element is labeled the structural Keynesian critique (Palley 2002, 2004). The argument here is export-led growth promotes economic structures that deliver low quality growth and prevent the development of deep prosperity. Within countries, development has shallow roots because it is externally focused—a phenomenon exemplified by export processing zones and Mexico’s maquiladora zone. Internationally, export-led growth promotes a race to the bottom as countries try to gain competitive advantage by any means. That results in wage suppression, disregard for labor and environmental standards, disregard of workplace conditions, and weak regulation aimed at pleasing capital.

IV. A BRIEF HISTORY OF EXPORT-LED GROWTH

The last thirty years have seen tremendous spread of the export-led growth paradigm. The strategy was pioneered by Germany and Japan in 1950s and 1960s. In the 1970s and 1980s it was adopted by the four East Asian Tigers—South Korea, Taiwan, Hong Kong, and Singapore. In the 1980s and 1990s it spread further, being adopted in South East Asia by Thailand, Malaysia, and Indonesia. In Latin America it was adopted by Mexico. In the 2000s China has exemplified the paradigm.

The model has not been constant, but has instead evolved to fit changing global circumstances and to fit individual country conditions. This evolution can be thought of as involving four stages.

Stage I was kicked off by Germany and Japan and can be thought of as running from 1945–1970. Both countries had their own indigenous industrial base and export growth was driven by an under-valued exchange rate. Growth also benefitted from U.S. aid made available after World War II as part of reconstruction and the Cold War.

Stage II captures the experience of the four East Asian tigers and runs from 1970–1985. Once again countries relied on an under-valued exchange rate but now there was need for more foreign technology acquisition. This was done via strategic planning and benefitted from the fact that technology was becoming more mobile.

Stage III is epitomized by Mexico's engagement with export-led growth. The major change from stage II is that countries now started turning themselves into export production platforms for foreign multi-nationals rather than developing their own indigenous industrial capacity. This changed strategy was feasible because of increased mobility of technology and capital. The key elements of the new strategy were a) integration into the global economy; b) an undervalued exchange rate; c) suppression of wages and social standards. The goal was to enhance international competitiveness so as to become attractive to multi-national corporations (MNCs) as a site for foreign direct investment (FDI) that was export-oriented. However, the benefits have also proved much more elusive.

The new strategy is exemplified by Mexico's experience which began with the trade liberalization of 1986. That set the path to NAFTA and the creation of a North American free trade area in 1994. The inauguration of NAFTA in January 1994 was marked by a peso crisis that resulted in massive devaluation of the peso vis-à-vis the US dollar, providing Mexico with an under-valued currency.

This third stage of export-led growth represents the beginning of the modern era of corporate globalization, and a critical feature is that export-led growth is no longer a purely national strategy. Instead, it is a partnership between developing countries, multi-national corporations, and developed countries. Governments and multi-nationals promoted the new system using the traditional language of free trade and claimed the goal was creation of a global market place. However, the real goal was not to promote traditional trade, but rather to create a global production zone in which corporations could establish export production platforms that would export back to developed country markets.

NAFTA is the template for the new model and it is massively significant from a historical standpoint. By unifying the US, Canada, and Mexico into a single free trade zone NAFTA created for the first time a free trade production zone that unified developed and developing economies. This template was then extended globally via the establishment of the WTO in 1996 and the admission of China into the WTO in 2001.

There are three important features of the NAFTA–corporate globalization model. First, it promotes trade but not the classical trade of balanced exports and imports. Second, it promotes a new type of export-led growth based on relocating existing production and diverting new investment, that benefits emerging market economies by creating jobs, transferring technology, and relieving balance of payments constraints on growth. However, these economies do not own the industrialization process as was the case in stages I and II. Third, it does considerable damage to developed economies via deindustrialization, creation of international financial imbalances, and undermining the wage–productivity growth link which in turn undermines the coherence of the domestic income and demand generation process.

Stage IV is an extension and augmentation of the stage III model and is exemplified by China. China’s model makes three major adjustments to Mexico’s NAFTA model. First, it is characterized by asymmetric global engagement with China maintaining greater tariffs on imports. Second, there is managed under-valuation of the exchange rate that is maintained with capital controls. Third, there is a strategy for building an indigenous national technological base via forced technology sharing, joint-ventures in which MNCs may be minority shareholders, and technology theft. China’s policies toward banking and automobile production are prime examples of this.

MNCs have also changed their strategy. Thus, they are now willing to engage in joint-ventures and also license and source from foreign producers rather than own facilities. In the case of China that is the price of entry, with corporations hoping they will be paid back by future profits from China’s large market. Licensing and joint-ventures also benefit corporations by reducing their capital investment.

However, the basic structure of dependence on multinationals for exports remains intact so that stage IV Chinese export-led growth remains distinct from the earlier stage I and II experiences of Germany, Japan, and the East Asian Tigers. This dependence is illustrated in Table 1 which provides a decomposition of Chinese exports and imports by ownership structure. Foreign-owned firms account for 50.4% of Chinese exports, and that rises to 76.7% if joint ventures are included.

Table 1. Decomposition by firm ownership structure of Chinese exports and imports in 2005.

Source: Manova and Zhang, 2008

	All firms	State-owned	Private domestic	Joint ventures	Foreign-owned
Exports	100%	10.3	13.1	26.3	50.4
Imports	100%	21.7	7.1	24.1	47.2

V. THE FALL OF EXPORT-LED GROWTH

So far the analysis has been backward looking. This section peers into the future. For past several decades export-led growth has been a relatively successful development strategy but there have also been clear signs of fraying. Though China has done well, stage III participants (like Mexico) have been less successful. This is illustrated in Table 2 which shows China has had rapid GDP growth, rapid labor productivity growth due to rapid capital accumulation, and rapid total factor productivity (TFP) growth reflecting a dynamic economy characterized by technical advance. In contrast, Mexico has not recovered its strong performance of 1960–1980. Since 1980 GDP growth has been sluggish, labor productivity has been unchanged, and TFP growth has been negative.

Table 2. Relative performance of Mexico (stage III)
and China (stage IV).

Source: Palma (2010)

	GDP growth		Labor productivity growth		Total factor Productivity growth		
	1950-1980	1980-2008	1950-1980	1980-2008	1960-1980	1980-1989	1990-2004
Mexico	6.4%	2.6%	3.1%	-0.1%	1.6%	-2.4%	-0.6%
China	4.9%	8.5%	2.0%	6.7%	0.6%	4.2%	4.7%

Looking into the future, there are reasons to believe the export-led growth strategy is exhausted for all. The reason is changed conditions in both the developing economies and the developed economies.

The financial crash of 2008 and the accompanying Great Recession represent a watershed moment and have created an overarching structural condition of global demand shortage. The US economy is debt saturated. Europe is constrained by fiscal austerity and is itself wedded to export-led growth via Germany. Japan continues to suffer from weak internal demand, has an aging population, and is also still hooked on export-oriented growth. This combination augurs for stagnation in the industrialized economies.

Emerging market economies have continued growing on the back of their export-led growth strategies but the positive factors are likely to prove temporary. EM economies benefitted significantly from recovery of trade after the trade collapse of 2009. They are also benefitting from high commodity prices that have bounced back with trade,

and commodity prices have further strengthened because commodities are viewed as a speculative hedge against inflation. Lastly, EM countries are benefitting from interest rate compression produced by the crisis. This rate compression will likely be a permanent benefit, but the trade bounce is a one-off benefit and realization of the prospect of stagnation will likely take the inflation premium out of commodities. At that stage, EM economies as a group will face structural impediments that make export-led growth collectively impossible.

The export-led growth model is now afflicted with several structural problems. Problem number one is the debt saturation of US consumers. The model relied on robust consumer markets in developed economies (particularly the US) to buy the exports and justify FDI. For twenty-five years those markets were artificially strong, fuelled by rising debt and asset price inflation. That pattern was unsustainable and it is now over, leaving a hole in the logic of the export-led model.

Problem number two is the relative size of the EM economies. They have become such a large share of the global economy that their exports are now driving a hole in the industrialized economies and sabotaging the recovery of those economies. This is illustrated in Tables 3 and 4. Table 3 shows the evolution of developed economies and emerging markets plus developing economy shares of global GDP. The latter's share has risen from 39.1 percent in 1980 to 50.8 percent in 2008. Their share of global economic activity therefore makes it difficult for the group to rely on export-led growth.

Table 3. The changing composition of global GDP
based on PPP (billions of current dollars).

Source: International Monetary Fund, World Economic Outlook Database, October 2007
and author's calculations.

	1980	1990	2000	2008
World	\$12,961b	\$26,988b	\$45,205b	\$77,109b
Advanced economies	7,896 (60.9%)	16,242 (60.2%)	26,071 (57.7%)	37,900 (49.2%)
EM & dev. countries	5,064 (39.1%)	10,746 (39.8%)	19,133 (42.3%)	39,210 (50.8%)

Table 4 shows the changing composition of world trade. Non-OECD country exports have risen from 25.1 percent of total in 1995 to 36.4 percent in 2008. Their share of world imports has risen more slowly from 26.2 percent to 33.2 percent. As a bloc these countries are running trade surpluses and they are still significantly dependent on exports for growth despite their larger size.²

Table 4. The changing composition of world trade
(percent, %).

Source: OECD Economic Outlook 87 database, June 2010.

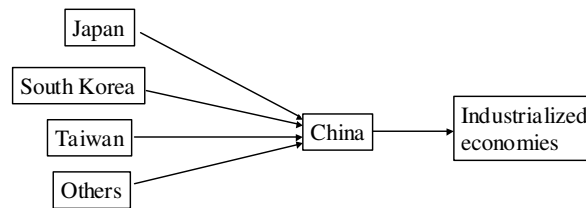
		1995	2000	2005	2008
Exports	G-7	48.9%	46.4	40.1	36.4
	OECD	74.9%	72.2	66.9	63.6
	Non-OECD	25.1%	27.8	33.1	36.4
Imports	G-7	48.7%	50.0	45.0	40.1
	OECD	73.8%	75.0	71.1	66.8
	Non-OECD	26.2%	25.0	28.9	33.2

² In Table 4 non-OECD proxies for EM and developing economies. However, Mexico, South Korea and Turkey are members of the OECD. If their exports and imports were subtracted from the OECD and added to the non-OECD, the trade share of EM and developing economies would increase further.

In effect, the NAFTA globalization model has created a divided world where the consumers are in the North and producers are in the South. In the era of globalization expanding productive capacity is now relatively easy owing to technological innovations that have increased the mobility of capital and managerial expertise. The more difficult challenge is the structural Keynesian challenge of creating an income and demand generation process that supports productive capacity (Palley 2006).

Nor is China likely to become the engine of growth because its growth model is still that of an assembler focused on supplying industrialized country consumers. This is illustrated in Figure 3 which provides a stylized representation of the new China-centric global supply chain. East Asian country exports go to China and China's exports then go to the industrialized economies.

Figure 3. Stylized representation of the new China-centric global supply chain.



This pattern of trade is supported by evidence in Table 5 which analyzes the changing composition of East Asian exports. The share of East Asian exports going to China has been rising, reflecting China's assembly role. However, the share of Chinese exports going to East Asia has been falling, reflecting China's reliance on consumers in industrialized economies.

Table 5. The changing pattern of East Asian trade:
percent of total exports going to East Asia & China.
Source: Haddad, M., "Trade Integration in East Asia: The Role of China and Production
Networks," World Bank policy Research Working Paper 4160, March 2007.

Exporter	East Asia 1990-94	East Asia 2000-04	China 1990-94	China 2000-04
East Asia	44.1%	49.0	6.4	11.1
China	60.5%	45.3	n.a.	n.a.

Problem number three is the declining relative price of manufactured goods. With the export-led growth strategy being so widely adopted, this is contributing to a new Prebisch (1950)–Singer (1950) declining terms of trade problem similar to the one that afflicted commodity producing developing countries in the second half of the 20th century. During that period the relative price of primary commodities fell as supply increased. Now the problem is increased supply of low technology manufactured goods (Sarkar and Singer 1991).

Problem number four is what globalization critics term the “global race to the bottom.” Because it is so easy for MNCs to shift production between countries, that has created a “race to the bottom” dynamic in which developing countries undermine each other. Each country is trying to get competitive advantage through a combination of wage suppression; suppression of labor, environmental & social standards; suppression of business regulation; shifting of tax burdens onto labor income away from capital income; creation of extra-judicial export processing zones; and competitive devaluations that create financial instability. Since all do it, none gains significant competitive advantage. Instead, this destructive competitive dynamic undermines the development of standards, institutions, income equality, and wage growth that are needed for deeply rooted development. The only beneficiaries are MNCs whose profit margins are increased.

Finally, problem number five is the adoption of export-led growth by China. Because China’s labor force is so large and its wages so low, and because the prospect of

producing for China's large domestic market is so commercially attractive, China is siphoning FDI and demand away from other emerging market economies. That is undermining their industrialization and development. China's emergence poses two problems for other developing and EM economies. First, its size blocks access to the traditional ladder of development for newcomers. Second, its entrance on the global stage has introduced South–South competition to go along with North–South competition. That explains why the benefits of export-led growth have been so limited for stage III countries like Mexico.

One benefit from China for developing economies is that China's relentless urbanization is likely to create persistent upward pressure on commodity prices. The urbanization process will require energy resources for power and transportation, and iron ore, copper, and lumber for construction. However, even that is a mixed blessing. First, it will only benefit EM and developing economies with these resources. Second, it stands to create “Dutch disease” in these economies by appreciating their exchange rates, something that is already clearly visible in Brazil and Chile. That will actually undermine these countries' industrialization and development and recreate an international division of labor paralleling that created in the 19th century by British industrialization.

In sum, for a developing country beginning the process of industrialization thirty years ago, export-led growth offered a reasonable bet. Its endowment and resources would have been significantly different from developed economies, and the US economy was about to embark on a thirty year consumption spree. Now, a newcomer must compete with many EM countries that are already on the ladder of industrialization and have similar resource endowments. Above all, it must compete with China. Moreover, that competition must take place in an environment where developed economies are debt-saturated in both the private and public sector.

VI. THE CASE FOR DOMESTIC DEMAND-LED GROWTH

The implication of these arguments is the export-led growth paradigm is exhausted for developing countries. It also risks serious harm to the global economy. That means there

is need to shift from export-led growth to a domestic demand-led growth model. This does not mean the abandonment of exporting. Countries will always need exports to pay for needed imported inputs and final goods they do not produce. However, it does mean building up the domestic demand side of the economy and reducing reliance on strategies aimed at attracting export-oriented FDI.

The outline elements of a domestic demand-led strategy are clear (Palley 2002):

- a) Build social safety nets that diminish need for precautionary saving.
- b) Raise wages and link wages to productivity growth by implementing a minimum wage, improving labor protections, and increasing collective bargaining via unions.
- c) Increase public infrastructure investment and fill the backlog of public investment opportunities resulting from twenty-five years of neglect imposed by the neoliberal Washington Consensus development model.
- d) Increase the provision of public goods—like healthcare and education.
- e) Rebalance tax structures by increasing taxes on higher income groups and lowering them on lower income groups.

In the international economy there is need to:

- a) End under-valued exchange rates and adopt a system of managed exchange rates aimed at avoiding global imbalances in trade.
- b) End policies of international labor competition via implementation of global labor standards.
- c) Implement global environmental and social standards that block international competition on these margins.
- d) Limit incentives to attract export-oriented FDI.

However, though it is clear what is needed, there are tremendous political obstacles preventing change. First, EM economies are unwilling to give up a strategy that has worked so well and has not yet been proven to fail. If a policy is successful, political calculus suggests it is unlikely to be abandoned until it fails. That is because abandonment means costs now for the sake of avoiding hypothetical future larger costs, which is not politically compelling.

Second, there is also resentment that EM economies are being asked to change when they still have far lower per capita income. Third, no individual country has an incentive to abandon export-led growth and adopt these types of policy measures for fear of being the only country to do so. Indeed, each individual country has an incentive to cheat on such measures and pursue an export-led growth strategy by itself. In effect, there is a collective action problem. The only way to get a global shift to a new growth model is to establish and enforce multilateral rules on exchange rates, and standards on acceptable labor, tax and environmental competition. However, getting agreement on such rules and standards is unlikely.

In addition to these political obstacles to change, there are also structural obstacles. Once countries embark on the path of export-led growth it seems to be very difficult to change strategies. For example, Germany and Japan are still focused on exporting, continuously running large trade surpluses fifty years after having adopted the export-led model and long after they have become top tier high income countries. One possible explanation is that once export-oriented industries acquire dominance they gain political control, while the institutions and political interests that would promote domestic demand-led growth remain weak.

VII. CONCLUSIONS AND PREDICTIONS

The above analysis suggests four conclusions and three predictions. Conclusion number one is the export-led growth paradigm is exhausted because of changed conditions in both EM and developed economies.

Conclusion number two is EM economies are mistaken in their belief that they can collectively continue to grow on the basis of export-led growth. It will not deliver success for them and it will further impede the task of economic recovery in the developed countries.

Conclusion number three is there is need for a major recalibration of the global economy that abandons export-led growth and replaces it with a new paradigm of domestic demand-led growth.

Conclusion number four is globalization has so diversified global economic activity that no country or region can act as the lone locomotive of global growth. A diversified global economy requires that all regions pull together.

These conclusions support the following three predictions. Prediction number one is for political reasons, it is highly unlikely that EM countries will shift away from export-led growth, nor will the international community agree on the international arrangements needed to make a domestic demand-led growth paradigm work. The fact is once a country has adopted export-led growth it appears nearly impossible to abandon it.

Prediction number two is failure to recalibrate the global economy is likely to produce a political backlash in the industrialized countries, particularly in the US where the public has lost political patience because adjustment by China has been delayed too long.

Prediction number three is the global economy is likely to experience asymmetric stagnation marked by slower growth in EM economies, stagnation in developed economies, and increased economic tensions between EM and industrialized economies.

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