Presentation Materials

Panel Session 1 Dr. Mignonne Man-Jung Chan, Co-Founder and Chief Sgterategy Officer, Forum on Humans





Sustainable Development: Sources & Challenges in the Region

- To consolidate consensus on good governance at the corporate, national, and regional levels;
- To select menu of options for trade & investment liberalization, facilitation, and economic & technical cooperation;
- To prioritize modes of production, consumption, and waste management without deteriorating or endangering the ecouniverse;
- To nurture mutual learning on human elevation of body-mindsoul, so as to achieve common human destiny;



The End

Comments Welcome

solitude4music@gmail.com

Prof. Gary Hawke, Emeritus Professor, Victoria University of Wellington

Asia Pacific Forum Kuala Lumpur 16 October 2019

- what are the components of sustainable and inclusive growth that countries in the region should focus on in the medium to long yet, and what are the challenges to achieving them.
- What are the sources of sustainable growth in the region? Can trade still be the vehicle for equal prosperity?
- How do we ensure that inclusive growth is achieved by all in the region?

I am glad that this Forum continues to focus on fundamental issues. It would always be a pleasure to rejoin longstanding friends in the Japan Economic Foundation and its networks, and to have an opportunity to see more friends in KL, but it is especially good to do so in a context such as this Forum.

We could have talked about trade wars, retreats from globalisation, the rise of populism, and so on, but all of those issues are incidental to the fundamental questions posed here.

As a member of NZPECC, and with colleagues from Malaysia PECC, I have been engaged in proposing what should succeed the Bogor Goals as the vision of APEC. You will remember that "Free Trade and Investment for the developed economies by 2010 and for the developing members by 2020" or

- Trade and investment liberalization
- Trade and investment facilitation
- Economic and technical co-operation

were adopted in APEC in the early 1990s and the Bogor Goals have served as aspirations since then. It is mostly the mention of specific dates which makes revision necessary.

We might also reflect that the mere existence of the two formulations I used shows that aspirational visions do not need to be complete and entirely agreed. Debates on the meaning of "free" and the question of whether ecotech was to assist all members to achieve liberalization and facilitation or supported a wider field of cooperation were sterile.

APEC will deliberate through 2020 and adoption of a revision of the Bogor a Goals is scheduled for the Leaders' Meeting here in KL towards the end of next year. However, the consultations led by NZPECC and Malaysia PECC among all the regional stakeholders, officials in a private capacity, business and researchers, reveal a strong wish to emphasise inclusivity and sustainability.

There will be reservations. The core of "Sustainability" is providing for the long-term future. It cannot be the preservation of everything as it is, still less how it was, since we want to sustain an experience of progress. It must however include conservation of what is highly valued in what we inherit. The real challenge is in accurately predicting what has yet to be discovered as alternative ways of achieving what we currently achieve by using non-renewable resources. The deepest challenge is maintaining political consensus that we are striking the right balance between relying on the currently unknown and denying possible improved living standards. Agreement on subsidies on fossil fuels or on management of fishery resources may seem a long way from this abstraction, but the region can benefit from exchanging views and experiences on all aspects of valuing the future.

Inclusivity generates a different challenge. In the APEC context, the question is the extent to which member economies want to internationalize their social policies. There is no one right balance between relying on families to support the aged and choosing among the many available processes of social security. International migration ensures that there will always be tension between countries that make different choices but hey can be managed. The international policy issue is to minimize the extent to which implementation of a national policy bears negatively on trading partners. The key to that is international dialogue and a commitment by governments to facilitate adjustment and change rather than to protect existing activities.

We hear less about the East Asian Miracle than we did. The world changes and our problems are no longer those of the 1970s and 1980s when we were preoccupied with "flying geese industrialisation". But we should remember that a key to that success was not a simplistic idea of Washington consensus, but a common understanding not that governments should not intervene, but that they should assist movement of people to more productive sectors and should not seek to protect what had been valuable activities in the past.

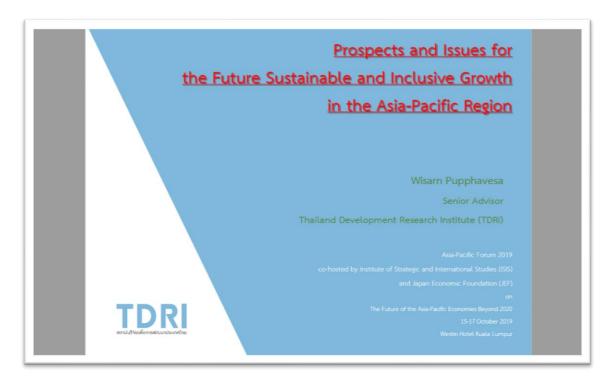
The greatest challenge to achieving inclusivity is a misplaced desire to protect what exists rather than encourage participation in what will be valuable in the future.

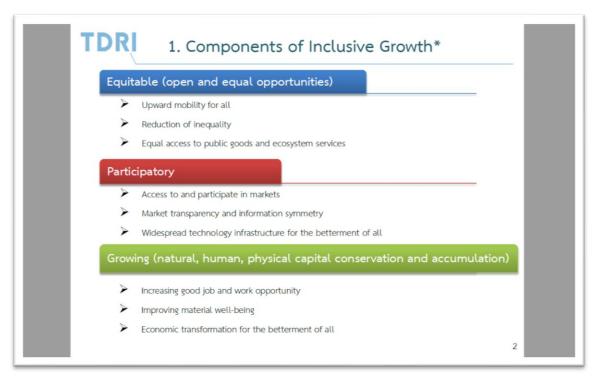
In practice, this question is usually related to technology-induced unemployment. My background is that of an economic historian and I cannot refrain from speculating on our societies had our predecessors decided that accommodating railways was too big a risk for all those who employment rested on the demand for horses. Until we invent machines which have the ability to learn and to reproduce themselves (with improvements) and with a desire to indulge themselves to the exclusion of humans, I shall remain an optimist on technology.

The sources of sustainable growth in the region are the same as they have always been, the stocks of useful natural resources inherited from the past, the structures of all kinds built by human endeavor which continue to contribute to generating valued goods and services, the human skills and knowledge which make this possible (including recognising some natural phenomenon as a resource), and above all, the ability to generate new knowledge. (Note that new knowledge may mean something is recognised as a natural resource for the first time.) Trade not only can still be the vehicle for prosperity; prosperity depends on the continuation of trade. It is a fairly simple mental exercise to contemplate our regional societies reduced to relying on subsistence in isolated pockets.

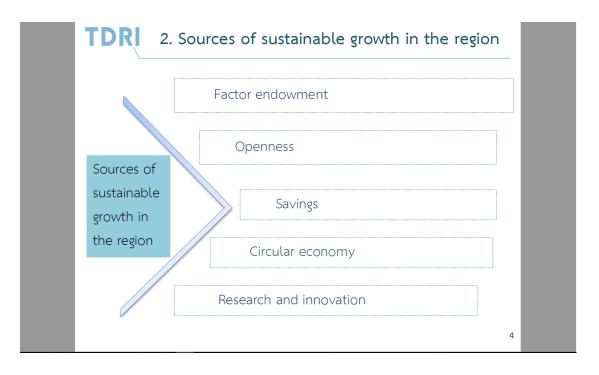
I silently altered the prescribed question then by leaving out "equal". We can see that most discussion of equality is simplistic by asking equality of what? Equal lifetime incomes - even if restricted to those whose life expectancy is not cut short - will vary as experience, accumulated knowledge, and energy follow different life patterns. (In addition, incomes will vary with social customs about childrearing.) Then there are questions about different degrees of commitment to producing what has social value as well as all the questions about how well-being relates to measured income. We can continue to refine our understanding of well-being, but I anticipate that we will continue what has been general experience in modern societies - we will seek equality of opportunity - social mobility - though this cannot be attained in the absence of equality since home backgrounds matter - but we will take social action to limit inequality only when it impinges greatly on opportunities.

Which implies that we will actually seek something less than that "inclusive growth is achieved by all in the region". We will aim for a region where we avoid putting barriers in the way of others and where all have a reasonable opportunity to participate. Dr. Wisarn Pupphavesa, Senior Advisorm Thailand Development Research Insitute (TDRI)







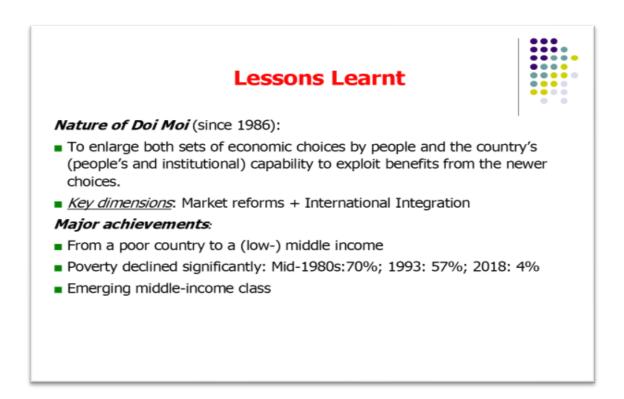


8. How to ensure achievement of inclusive growth by all in the region 9. Sufficiency Economy (Moderation, Rationality, Immunity, Intelligence, Morality) 9. Deepening AEC 9. Broadening and deepening regional trade and development cooperation (RCEP, CPTPP, APEC)



Dr. Vo Tri Thanh, Vietnam National Committee for Pacific Economic Coperation (VNCPEC)





Infrastructure dev't has been crucial to growth and poverty reduction

- Importance of both highways and secondary networks
- Priorities (due to financial constraints)

Impacts of public investment on rural poverty reduction (No of poor reduced per 10 thousand Yuan/billion VND)

| Sector | China | Viet Nam |
|--|-------------------------------|-------------|
| 1. Agricultural R&D | 3.4 (3) | 246.5 (1) |
| 2. Irrigation | 0.4 (6) | 23.3 (5) |
| 3. Roads | 3.0 (4) | 102.5 (3) |
| 4. Education | 6.3 (1) | 164.6 (2) |
| 5. Electrification | 2.9 (5) | 90.7 (4) |
| Rural telecommunication Note: Figures in parentheses are rankt | 4.0 (2) ing of the Impacts | |

- The specific-targeted programs have played very crucial role in reducing poverty, especially the "hard-core" poverty
 - Such as small scale infrastructure programs; employment programs; poverty reduction programs
 - The key: right targeting and sustainability of the programs (?)



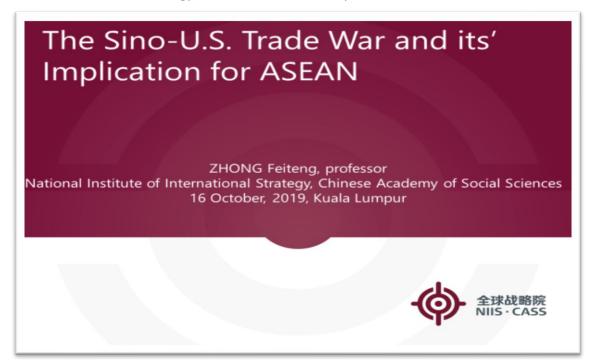


To leverage on the international cooperation

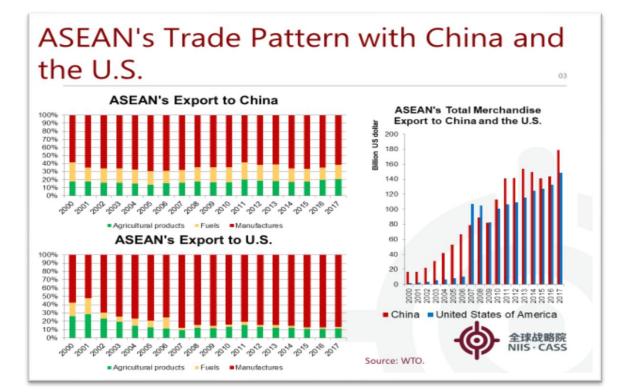
- <u>APEC 2017</u>: Action Agenda on Advancing Economic, Financial and Social Inclusion. The overarching goal is to achieve a more inclusive APEC community by 2030. The Task Officials are to implement the Action Agenda beginning from 2018, with a midterm report of progress in 2024, and a final review in 2030.
- <u>APEC Beyond 2020 (PECC)</u>: Vision for APEC 2050 is that of an open and seamlessly interconnected community of member economies that supports a rules-based economic order and delivers robust, sustainable and inclusive economic growth for the peace and prosperity of their people and the world. <u>Note</u>: Almost 90% of respondents agreed that APEC has a useful contribution to make to promoting inclusive growth.
- <u>ASEAN Vision 2040 (ERIA)</u>: Embedding people empowerment and leave no one behind principle toward Inclusive and people-centered ASEAN. <u>Key</u>: Harnessing the new technologies will strengthen the connection between inclusiveness strategies and the robustness of economic growth.

Panel Session 2

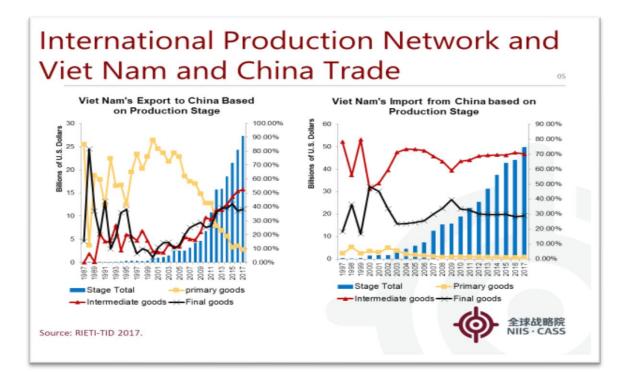
Dr. Zhong Feiteng, Head and Professor, National Institute of Iternational Sterategy, Chinese Academy of Sciences (CASS)



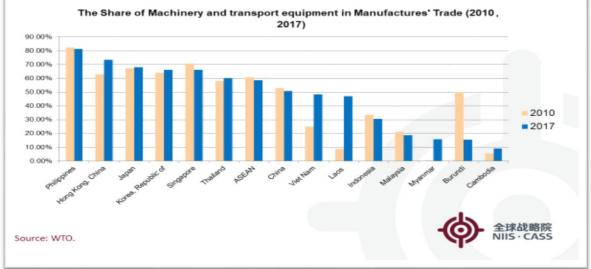




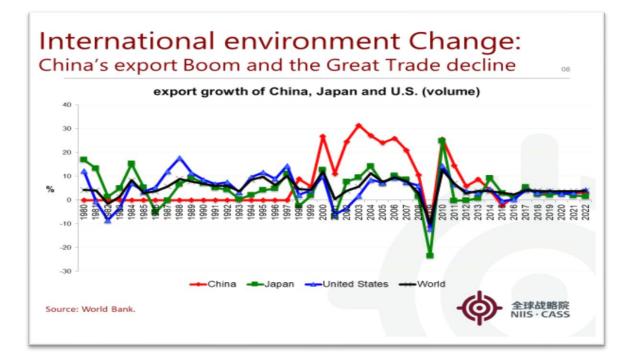














Amb Murray Mclean AO, Chairman, Dunmore Mclean Pty Ltd

Asia-Pacific Forum 2019 Public Symposium on "The Future of the Asia-Pacific Economies Beyond 2020" Panel comments: Murray McLean – 16 October 2019 Panel Session 2: Progress of Regional Integration in the Asia-Pacific Region and its Outlook

"Guiding questions" addressed generally in these remarks:

- 1. What is the mid-term and long-term outlook for regional trade amidst trade tensions?
- 2. Should countries in the region continue pushing for trade liberalisation going forward beyond 2020
- *3. Which type of mega-regional trade deals are needed to reinvigorate further trade liberalisation and facilitation efforts in the long-term*

We are facing a pivotal point in world affairs, particularly in our own Asia/Indo/Pacific region.

We are all familiar with this dynamic and fast-changing world situation, which is characterized by trends such as:

- shifting strategic power balances,
- major trade disruption principally stemming from the US/China trade dispute,
- widespread disruption of accepted international institutions and norms,
- cross-border threats from terrorism and cyberspace and
- rapidly increased use of, and dominance in our economies, of new technologies such as artificial intelligence, smart cities, social media and e-commerce.

In managing the challenges at this pivotal time and attempting to forecast the medium to longer-term outlook for regional trade, the first and most important point to note is that the Asia/Indo/Pacific region remains the most productive source of global economic growth.

Moreover, the relative strength and resilience of Asia-Pacific economies which we have experienced over the past decade, is a trend that has continued in 2019, even if at a slowing pace. And despite a slowdown this resilience looks certain to continue for some years to come.

Economic resilience will be fundamental element in offsetting the extent to which the region's economic growth may be adversely affected by global and regional macro-developments.

My second point is that economic resilience alone is not enough. The fact that the US/China trade dispute has already impacted on the regional economy and its trade volumes and patterns, including changing regional and global supply chains, means it is very important that regional countries do not sit by passively, or as spectators. Working together multilaterally and collectively to shape rules, norms and standards for the region's trade and investment is critical.

Such collective action needs also to be supplemented by what countries can do individually, to preserve free and open trade, and to implement domestic reforms that remove behind-the-border barriers to trade and investment to advance economic health and growth.

A combination of collective multilateral action and individual action by countries for the medium and long-term will be an essential ingredient of ensuring continued economic development and growth.

Since our shared region's economic strength is so fundamental to global economic health, there is no more important time than now, for the region to take a leadership role, working collectively. This is especially so because long-established and broadly-accepted multilateral institutions, international norms, rules and practices have been steadily eroded in the past few years.

So my third point is that it is in our strong mutual interests that we, in our region, do everything possible to counter that adverse protectionist trend wherever possible and maintain openness, transparency and fairness in trade regimes.

It is not the subject of this conference, but the unfolding strategic competition between the United States and China extends well beyond trade and investment and its direct effect on the US/China bilateral relationship. Suffice to say the most obvious impacts are that the trade dispute has slowed down global economic growth generally, and that the preferential/protectionist measures being adopted are impacting on the trade performance of third countries.

In this resort to protectionism which is basically a zero-sum approach, there is diminishing reliance on all of the positive measures the global multilateral trade agenda has achieved over past decades. It is critical that the countries of the Asia/Indo/Pacific region do not simply wring their hands in despair or seek only to survive by navigating

the cross-currents. It is essential to commit pro-actively and collectively to trying to shape the outcomes most beneficial to the region and to individual countries.

Accordingly, the region's long-term interests will be best served if the RCEP negotiations are concluded as soon as possible, in order to demonstrate to a global audience, the benefits of multilateral liberalization that aims to ensure open and free markets and develops new momentum for ongoing reform.

A successful outcome at the planned November summit would demonstrate that the countries of the Asia/Indo/Pacific are prepared to act in a leadership role in support of the ongoing value of the multilateral trading system.

Major regional economies notably China, India and Japan – as well as ASEAN countries and Australia and New Zealand are now all generally committed to achieving a successful RCEP outcome at least by year-end.

Looking into the medium to longer term, a successful conclusion of RCEP negotiations should mean RCEP is well-placed not simply to help remove trade distortions and build new regulatory arrangements for services, but also to enhance the region's investment climate and to set up new regulatory frameworks for international financial movements and for areas of the new economy. If any or indeed all of this takes place, it will deliver a powerful message against protectionism.

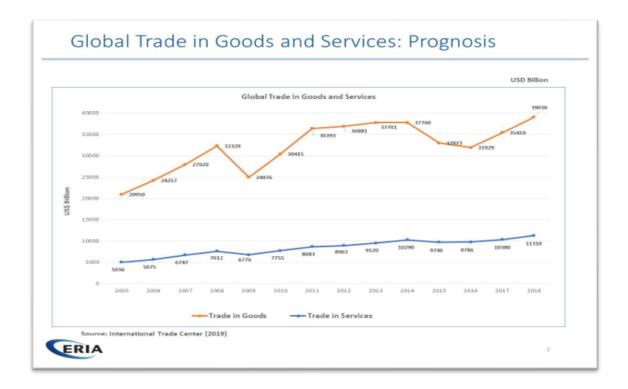
More broadly, the critical role of ASEAN, beyond RCEP, is for others present today to speak about. But clearly, ASEAN's continued central importance to the region's economic integration should be noted very positively.

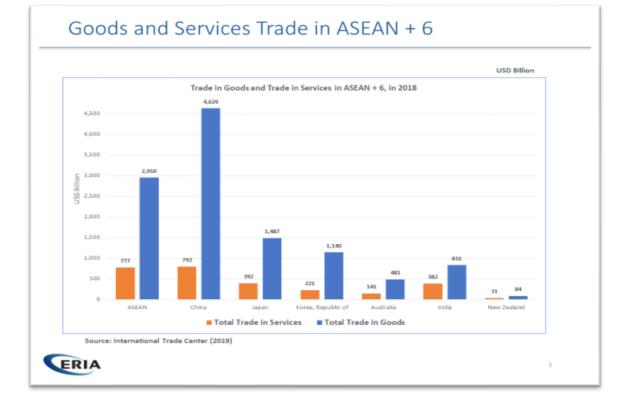
With the realization of RCEP (potentially) and CPTPP, ASEAN is well-placed, consistent with the themes in its most recent "ASEAN Outlook on the Indo-Pacific", to work collectively with other regional countries such as Japan, Australia, India, China and Korea. This for example, can be in the G20 or the WTO or APEC. Working together, regional countries can be standard-setters for new norms, rules and institutions or for updating or adjusting regulations and institutions to make them more fit for purpose.

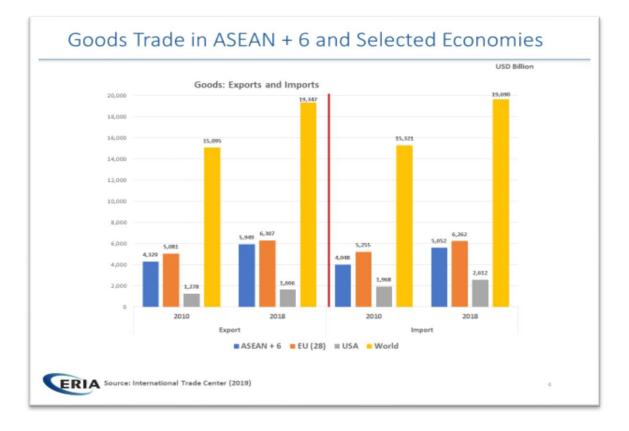
WTO is a clear case where action on making it more fit for purpose can be influenced by the region with ASEAN/RCEP in a leading role. Collective work by regional countries in the creation of new standards and norms for management of cyber-security, AI, smart cities and regulation of social media are examples of future important cooperation.

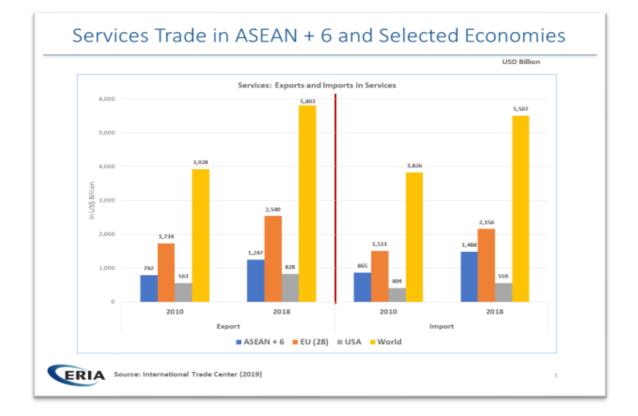
Ms. Anita Prakash, Director of Policy Relations, Economic Research Institute for ASEAN and East Asia (ERIA)

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Outlook for Asia Pacific Region: Reality or Hope

| Country | 2017 | 2018 | 2019 | 2020 |
|---------------------------------|------|------|-------|------|
| ASEAN - 5 Countries | | | | |
| Indonesia | 5.1 | 5.2 | 5.1 | 5.1 |
| Malaysia | 5.7 | 4.7 | 4.4 | 4.6 |
| Philippines | 6.7 | 6.2 | 6.0 | 6.3 |
| Thailand | 4.0 | 4.1 | 3.5 | 3.6 |
| Viet Nam | 6.8 | 7.1 | 6.7 | 6.6 |
| Brunei Darussalam and Singapore | | | | |
| Brunei Darussalam | 1.3 | 0.1 | 1.6 | 1.9 |
| Singapore | 3.7 | 3.1 | 2.4 | 2.5 |
| CLM countries | | | | |
| Cambodia | 7.0 | 7.5 | 7.0 | 6.8 |
| Lao PDR | 6.9 | 6.4 | 6.6 | 6.7 |
| Myanmar | 6.8 | 6.2 | 6.9 | 6.9 |
| China and India | | | - | |
| China | 6.8 | 6.6 | 6.2 | 6 |
| India | 7.2 | 6.8 | (7.2) | 7.4 |
| Average of ASEAN 10 Countries | 5.3 | 5.1 | 4.9 | 5 |
| Average of Emerging Asia | 6.6 | 6.4 | 6.2 | 6.2 |

Source: Economic Outlook for Southeast Asia, China and India 2019 - Update

Note. Data are as of 31 May 2019. Data of Cambodia and Myanmar in 2018 are preliminary estimates. Data of India and Myanmar relate to fiscal years. For Myanmar, the 2018 data are based on ADB (2019) and IMF (2019) and refer to the interim period ending September 2018. Singapore and Thailand data are based on chain-linked volume measures. The projections for China, India, and Indonesia are based





Can trade deals serve longer term needs?

Panel Question: Which mega-regional FTA/Trade deal are required for further trade liberalisation in the longer term?

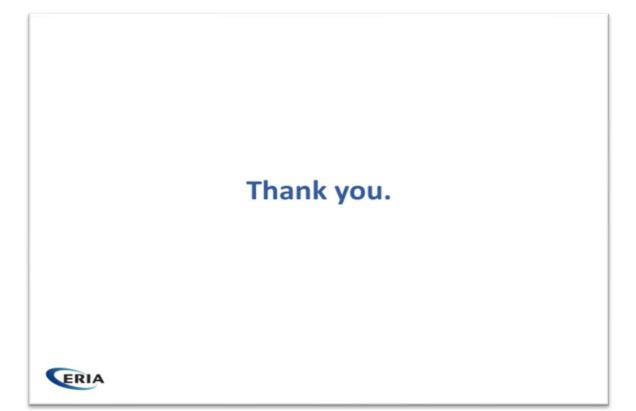
In trade, can there be a longer term?

- Mega regionals have lost policy focus (RCEP is comparably opaque now)
- Either USA, or China
- EU is more available; Japan-EU, Japan-USA

New value chains, new markets for trade and investment, labour mobility and training

Countries which created absorption capacities: Vietnam, Bangladesh, African countries





Panel Session 3 Dr. Ahn-choong-yong, Distinguished Professor, Graduate School of International Studies, Chung-Ang University

The Fourth Industrial Revolution (4IR) is growing out of the Third Industrial Revolution (3IR), namely the digital revolution, but it is considered a new era rather than a continuation of its predecesor. 4IR is categorized by its disruptiveness, evasiveness, explosiveness and breakthrough of big data and AI. There is a need to make a distinction between digitally advanced economies and digitally backward nations, as what is needed varies by country depending on its degree of information and communications technology (ICT) development and availability of digital manpower.

Digitally backward economies need to expedite ICT hardware infrastructure and software development by cultivating digital manpower. These economies also need to benchmark the German experience, as evident in 4IR and the Japanese experience of factory automation of small and medium-sized enterprises

(SMEs).

Digitally advanced economies face a hegemonic competition for new industries due to the winner-takes-all nature of connectivity and explosiveness of 4IR. This is evident in the ongoing U.S.-China trade war and restrictions in international transactions.

The countries that own big data are likely to own the future. In particular, the effective fusion of information technology and biotechnology may determine new industrial competitiveness.

A serious challenge in many countries is how globalization has broadened the unequally shared fruits of trade liberalization and worsened income inequality, which, in turn, helped populist political leaders establish illiberal political regimes across several nations in this region.

Innovation and expansion are needed to promote inclusive growth and ensure an ongoing regional cross-border supply chain. This will allow more active SME participation, which will create jobs for those of relatively low income, raise their incomes and elevate their socio-economic wellbeing.

In this regard, there is a need to ensure bottom-up SMEs through business-tobusiness (B2B), business-to-consumer (B2C) and the business-to-government (B2G) processes. To expand the regional value chain, trade rules need to be harmonized so that parts and components can freely cross borders. For this to happen, standardization, an agreed-upon sanitary and phyto-sanitary measures, a mutual recognition system and a business-friendly environment for FDI are critical. To broaden growth, quality improvements in logistic services and the management of seaports and airports in low-income and middle-income economies throughout Asia Pacific are also necessary.

The United States and China especially should work out the bottom line of free trade rules. Smaller economies should not have to decide which country to align with. And like-minded middle- and low-income countries should pursue plurilateral FTAs to ensure ongoing supply chains and minimize negative consequences.

Digitally advanced economies should work out an environment in which people focus on servicing and leveraging AI instead of competing with it. The job market then in the long run would need human-AI cooperation rather than human-AI competition. Investments in human capital to upgrade and expand the talent pool are paramount as we prepare for 4IR.

Another major issue related to creating a level-playing field for a liberal trade order involves subsidies to state-owned enterprises (SOEs) and the protection of intellectual property rights (IPRs).

For inclusive liberal trade, offline and online intra-regional connectivity is crucial and must be enhanced.

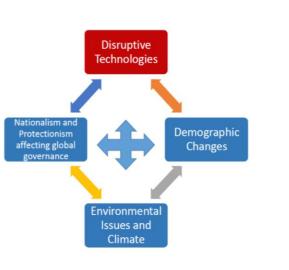
Another serious challenge is that 4IR can be used to erode security and violate privacy. In this regard, a broad multi-stakeholder alliance is necessary to create a platform for sharing digital public goods, engaging talents, and pulling datasets in a manner that respects privacy.

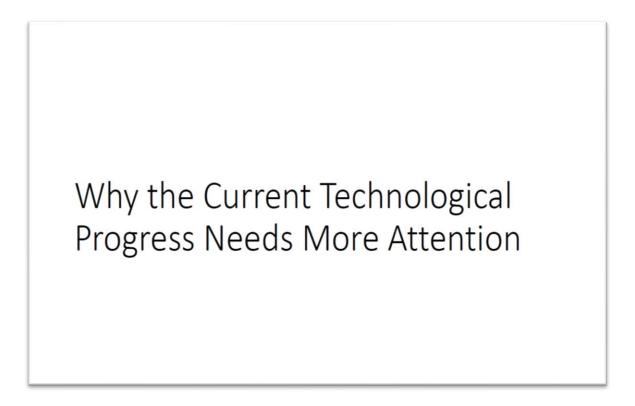
Dr. Yose Rizal Damuri, Head of Department of Economics, Center for Sterategic and IInternational Studies (CSIS)

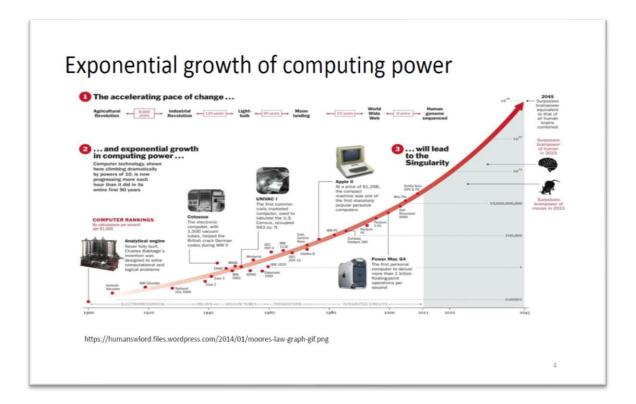


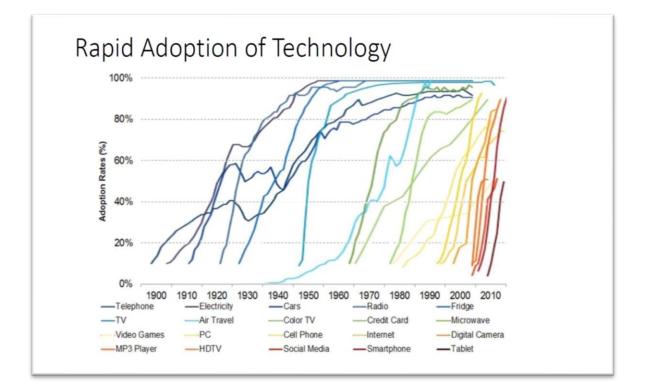


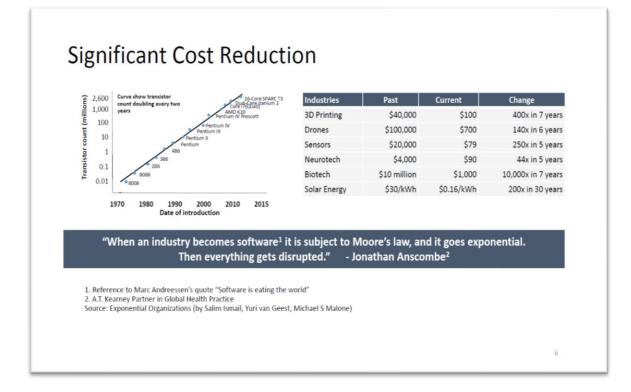
- The world is changing • In a faster pace, in a more
 - complicated shape and in an unpredictable way
- There are at least four aspects affecting global economic landscape
- Those would affect East Asia and Pacific economy directly and indirectly
- Require appropriate response in policy and understanding

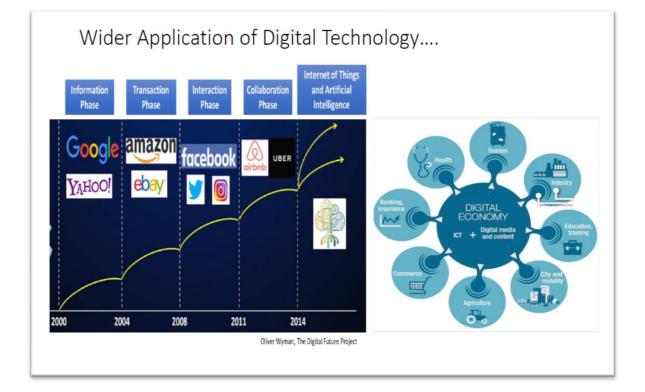


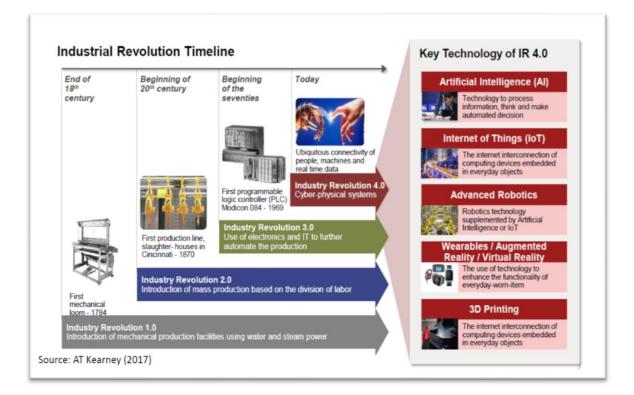


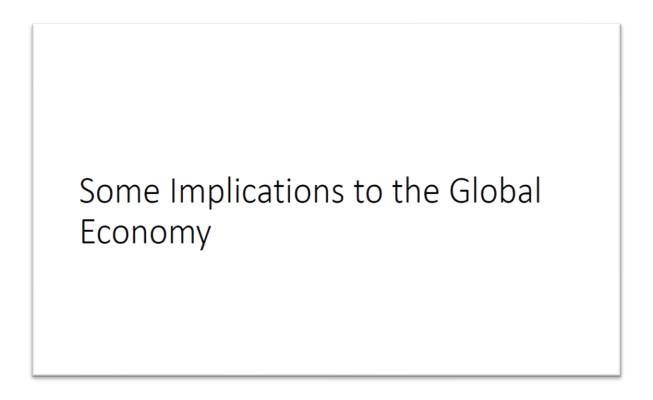


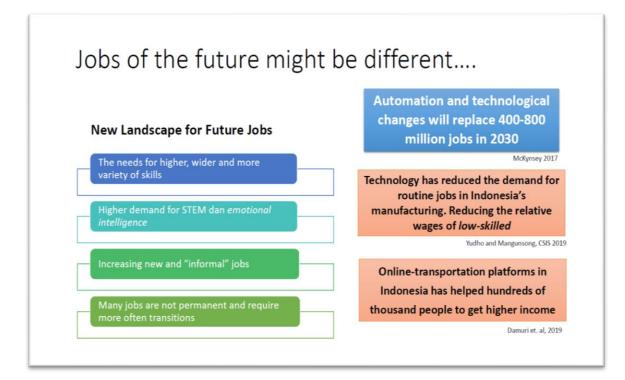


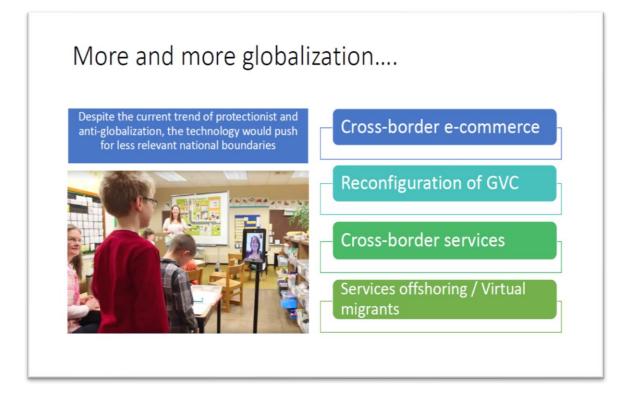


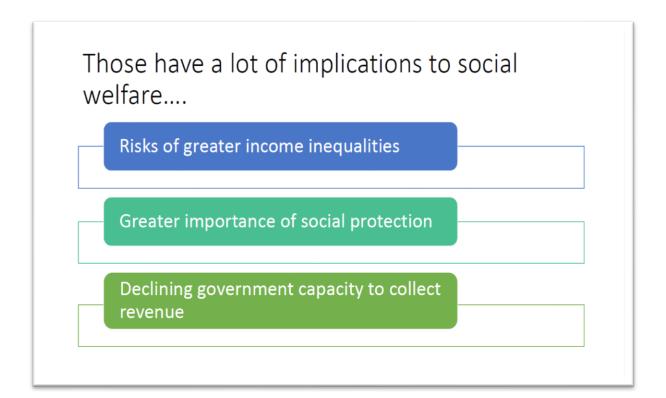


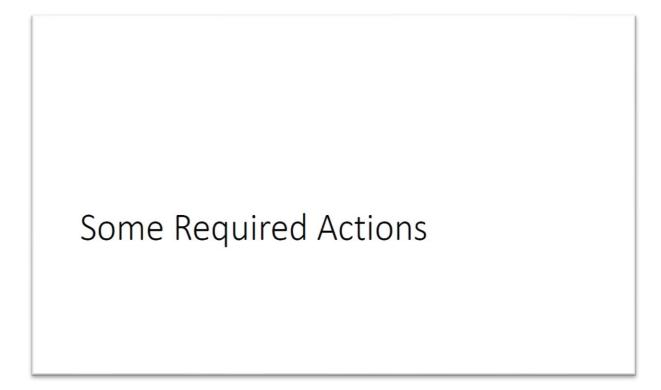












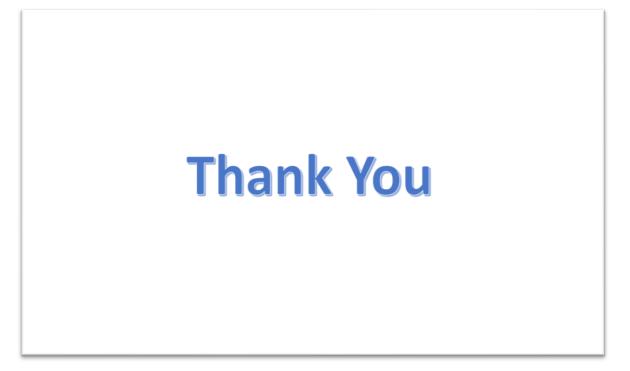
Three Important Elements of Digital Era

| Human Resources | Infrastructure and Innovation | Policy and Regulatory Framework |
|---|---|--|
| Expanding talent pool Improve STEM capabilities Flexible labor market but with better protection Allow and integrate talented immigrants | Improving ICT infrastructure, in particular mobile connectivity Creating more competitive and reliable telecommunication services Supporting research and innovation in digital technology applications | Flexible regulations to accommodate the changes Development policy which accommodate various aspects, e.g security, protection, competition, taxation etc Greater regulatory cooperation and, while necessary, harmonization |



- · First mile: internet enters a country
 - · Satellites, international gateways (monopoly)
- · Middle mile: passes through the country
 - Backbone network (liberalizing)
 - Open access to incumbent's network
 - All major infrastructure to include optic fiber (roads, railways, pipelines and energy)
- Last mile: reaches the consumer Connectivity and convergence (intermodal - cable, wireless and digital)
- Invisible mile: spectrum management and availability, competitive access and sharing of essential facilities (API sharing?)

| Policy Areas | Possible Issues | Illustrative Cases |
|-----------------------------|--|---|
| Competition-related | Definition of relevant market Winner takes all Definition of anti-competitive behavior | Web-based vs traditional transport services Acquisition of platforms to increase market share Some e-commerce platforms might use consumers' profiles and characteristics for other services they offer |
| Consumer protection | Fraudulent activities in C2C and B2C marketplaces Risky payment mechanism | Complaints about quality of goods, or delivery time Especially in using credit cards on unsecured services |
| International trade | Cross-border e-commerce Impact to domestic industry and start-up services | - Tariff application for such imported goods |
| Taxation | - Taxing internet-based economic activities | - Problems if the services is supplied cross-border, e.g. Google case, Amazon |
| Data protection and traffic | Freedom of data flow and privacy | - Requirement for localization of data centers |



Dr. Josef T. yap, Senior Technical Advisor, ASEP-CELLs Project, Ateneo School of Government

Industrial Revolution 4.0 and Globalization 4.0

Josef T. Yap 16 October 2019



- 1IR : steam engines and mechanical production
- 2IR: electricity, automation and mass production
- 3IR: computer and digital technology

Fourth IR: ICT and the Digital Revolution

- Elements of ICT
- Big Data analytics
- Robotics process automation and Artificial Intelligence
- Cyber-physical systems (e.g. Internet of Things)
- Blockchain technology
- Main Technical Achievements
- Internet
- ➤ 3D printer
- Autonomous vehicles
- Genetic Engineering

Challenges

- Rising income and wealth inequality (mostly within country)
- Developing countries have not completed 123IR. Can they leapfrog?
- Locking in deregulation (companies like Airbnb are known for operating in regulatory grey zones)
- Collecting, legally or illegally, massive volumes of personal user data from around the world
- Securing monopoly positions by shutting out or buying up competitors

Opportunities

Focus on Globalization 4.0

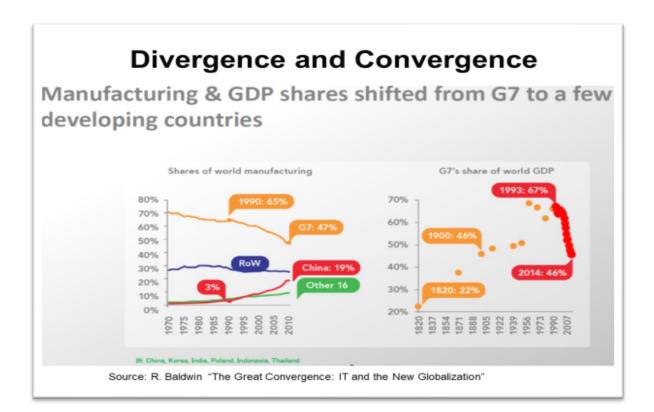
History of Globalization

Globalization 1.0: 1820 – WWI

Globalization 2.0: WWII – 1990

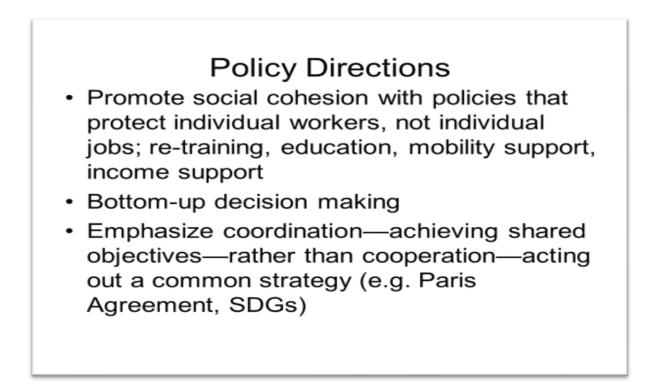
NOTE: Globalization 1.0 and 2.0 led to the Great Divergence

 Globalization 3.0: 1990 – present
 NOTE: Globalization 3.0 led to the Great
 Convergence (driven largely by exchange of "ideas"; ICT revolution led to proliferation of GVCs)





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|---|-------------------------|-------------|--------------|--|
| | Average mo | onthly sala | aries in USD | |
| | | US | Philippines | |
| | University Professor | 6,100 | 400 | |
| | School Teacher | 4,100 | 300 | |
| | Engineer | 6,200 | 570 | |





Assoc Prof Simon SC Tay, Chairman, Singapore Institute of International Affairs (SIIA)

Talking Points for JEF Asia-Pacific Forum 2019 The Future of the Asia-Pacific Economies Beyond 2020 Panel Session 3: New Challenges for Achieving Economic Prosperity Simon Tay

Four major disruptions:

(1) geopolitical, in the Sino-American conflict;

(2) social cohesion, in the populism and increased potential for tension and unrest within countries;

(3) technological, in what some call the 4th industrial revolution changing ways goods and services are conceived, produced and delivered; and

(4) climate and sustainability, as we face limits to the use of our resources and existential and negatives threat in our environment.

Risky scenarios:

(1) globalization gives way to protectionism and narrow strident nationalism;

(2) efficient and rules-based win-win cooperation gives way to chaotic, beggarthy-neighbor policies and bullying;

(3) technological and other advancements like infrastructure are concentrated and lead to winner-take-all outcomes that sharpen inequalities between countries and also within each society; and

(4) climate concerns and carbon constraints lead to radically different priorities among countries, companies and peoples without any agreed basis for cooperation and become reasons for conflict.

Priorities for the region:

- Engage both sides in Sino-American conflict
- Develop coherent and consistent frameworks to harness benefits of digitization while mitigating costs and risks
- Collective leadership in the region e.g. RCEP as a signal

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Panel Session 3: New Challenges for Achieving Economic Prosperity New difficulties have arisen in realizing inclusive growth and achieving the economic prosperity and stability of the Asia-

Pacific region. One of them is Digital Revolution and the other is political populism. The Fourth Industrial Revolution and Digital Revolution are taking place in this region and their negative impact is a matter of particular concern. Regarding populism, the question is whether political populism causing antiglobalization movement is breaking out in this region.

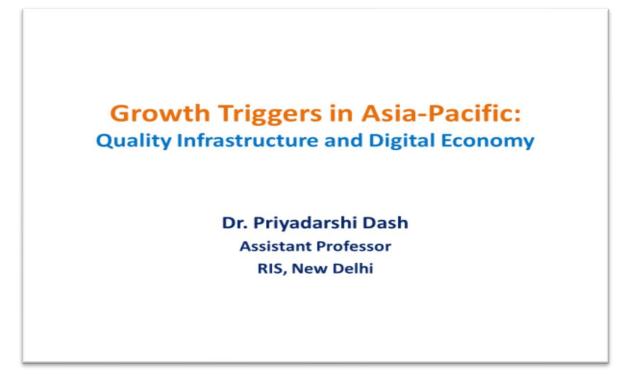
In coping with these concerns and realizing the socio-economic stability and prosperity of the region, what should we do? In this session, human resource development, infrastructure development, both software and hardware, and other relevant issues as their possible solutions are examined. Guiding questions:

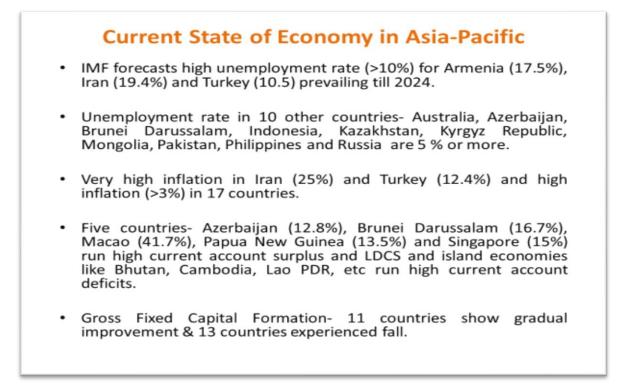
• What is needed for countries in the region to participate in the 4th Industrial revolution?

• How does quality infrastructure fit into the needs of a region in boosting its supply capacity?

• What can be done to offset the anti-globalization sentiment on the ground?

Dr. Priyadarshi Dash, Assistant Professor Research and Information System for Developing Countries (RIS)







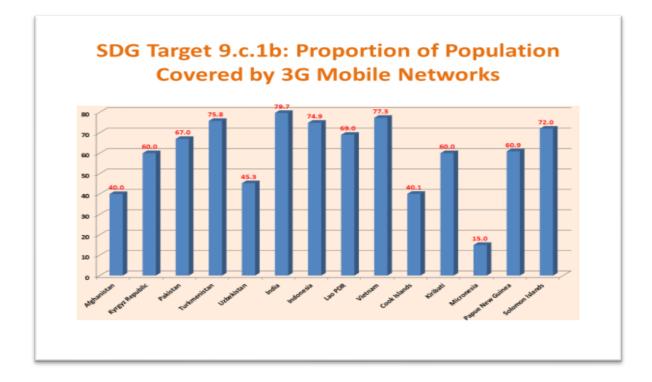
| Region/Sector | Current Trends | Investment Need | Financing Gap | SDGs (Additional Need) |
|---------------|-------------------|--------------------|------------------|------------------------------|
| Sector | | | | |
| Road | 1.0 | 1.3 | 0.3 | - |
| Electricity | 1.0 | 1.1 | 0.1 | 0.2 |
| Railways | 0.4 | 0.4 | 0 | - |
| Telecoms | 0.3 | 0.3 | 0 | - |
| Water | 0.2 | 0.2 | 0 | 0.1 |
| Airports | 0.1 | 0.1 | 0 | - |
| Ports | 0.1 | 0.1 | 0 | - |
| Region | | | | |
| Asia | 4.0 | 4.4 | 0.4. | 0.3 |
| America | 1.7 | 2.5 | 0.8 | 0.1 |
| Europe | 2.3 | 2.6 | 0.3 | - |
| Africa | 4.3 | 5.9 | 1.6 | 3.4 |
| Oceania | 3.5 | 3.8 | 0.3 | - |

Infrastructure Spending Needs in Low and Middle Income Countries between 2015 and 2030

| Share of GDP (%) | | US\$ Billions | |
|------------------|---|--|--|
| Capital | Maintenance | Capital | Maintenance |
| 2.2 | 0.6 | 780 | 210 |
| 1.3 | 1.3 | 420 | 460 |
| 0.55 | 0.75 | 200 | 70 |
| 0.32 | 0.07 | 100 | 20 |
| 0.13 | | 100 | |
| 4.5 | 2.7 | 1550 | 760 |
| | Capital 2.2 1.3 0.55 0.32 0.13 | Capital Maintenance 2.2 0.6 1.3 1.3 0.55 0.75 0.32 0.07 0.13 | Capital Maintenance Capital 2.2 0.6 780 1.3 1.3 420 0.55 0.75 200 0.32 0.07 100 0.13 100 100 |

SDG Target 9.a.1: Total Official International Support to Infrastructure (Constant 2016 Million)

| Central and West Asia1164.45941.9East Asia2259.92676.1South Asia3798.57762.9Southeast Asia3429.45948.2The Pacific241.3577.5 | East Asia2259.9South Asia3798.5Southeast Asia3429.4 | 2016 |
|---|---|--------|
| South Asia3798.57762.9Southeast Asia3429.45948.2 | South Asia3798.5Southeast Asia3429.4 | 5941.9 |
| Southeast Asia 3429.4 5948.2 | Southeast Asia 3429.4 | 2676.1 |
| | | 7762.9 |
| The Pacific 241.3 577.5 | The Pacific 241.3 | 5948.2 |
| | | 577.5 |





- Infrastructure investment in physical, social and digital contributes to economic corridor development.
- Digital connectivity unleashes potential for fintech, ecommerce and IT-enabled services sectors.
- Social infrastructure through formal education, training and skill development programmes builds future generations for Industry 4.0.
- Cooperation among Asia-Pacific countries in technology development, sharing of knowledge & expertise, skilling, etc addresses limits of national capabilities and bring synergy.