ENHANCING ASEAN CONNECTIVITY MONITORING AND EVALUATION

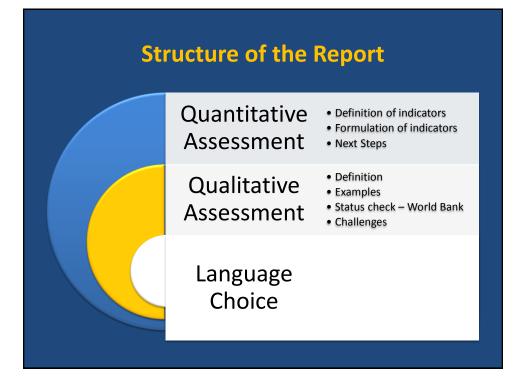
Binyam Reja Transport Sector Coordinator , World Bank APEC Symposium, May 12, 2014 Qingdao, China

Background

- Master Plan for ASEAN Connectivity (MPAC) adopted in October 2010
- Includes three dimensions physical, institutional and people-to-people.
- ASEAN Connectivity Implementation Matrix/Scorecard (ACIM) developed to track implementation of the key actions of the MPAC
- The World Bank was engaged by ASEAN to provide technical assistance to enhance the ACIM.

What does "Enhancing" the ACIM Mean?

- ↓ Stay true to the MPAC deliberative process
- ↓ Assess the existing ACIM
- **U** Evaluate language choice for monitoring purposes
- **Upperform** Develop a qualitative and quantitative assessment strategy
- ↓ **Propose** appropriate output and outcome indicators
- ↓ Implement a capacity building plan



In	itial Qualitative Assessment
Connectivity Dimension	Strategy
Physical	 Complete the ASEAN Highway Network Complete the implementation of SKRL project Establish an efficient and integrated IWT network Accomplish an integrated, efficient and competitive maritime transport system Establish integrated and seamless multimodal transport system to make ASEAN the transport hub in the East Asia region Accelerate the development of ICT Infrastructure and services in each of ASEAN Member States Prioritise the processes to resolve institutional issues in ASEAN energy infrastructure projects

Initial Qualitative Assessment

 In terms of physical connectivity a check–list of what is missing would have been sufficient to reflect upon the actual physical links

<u>But</u>

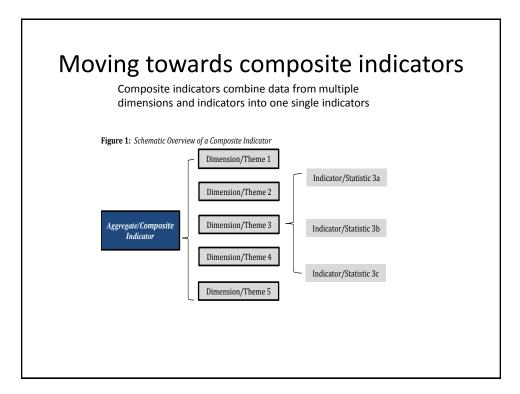
 It is not enough if the goal is to understand the output and outcome of such physical connectivity.

Ir	itial Qualitative Assessment
Institutional	 Fully operationalize the 3 framework Agreements on transport facilitation (AFAFGIT; AFAFIST; AFAMT) Implement initiatives to facilitate inter-state passenger land transportation Develop the ASEAN Single Aviation Market Develop an ASEAN Single Shipping Market Accelerate the free flows of goods within ASEAN region by eliminating barriers to merchandise trade. Accelerate the development of an efficient and competitive logistics sector, in particular transport, telecommunication and other connectivity-related services in the region Substantially improve trade facilitation in the region Enhance border management capabilities Accelerate further opening of ASEAN member states to investments within and beyond the region under fair investment rules Strengthen institutional capacity in lagging areas in the region and improve regional-sub-regional coordination of policies programmes and projects.

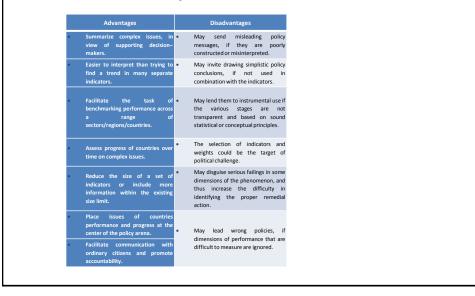
Initial Qualitative Assessment

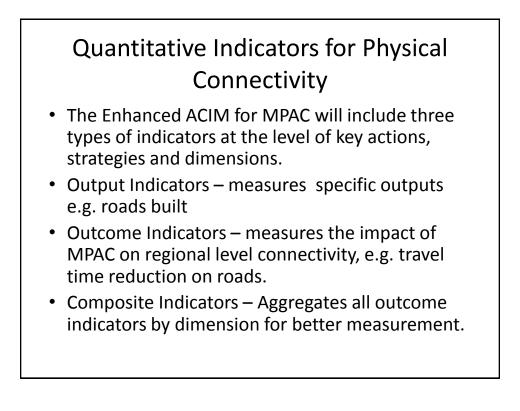
- The concept of institutional connectivity requires additional specification.
- Many of the devised key actions focus upon following up on ASEAN member states in terms of ratification, implementation of agreements and how liberalized market access can be followed through as per the various strategies.
- The devised key action can only reflect the status or the possible direction and requires that additional attention be paid to the formulation of each action to enable the monitoring effort.

In	itial Qualitative Assessment
People to people	 Promote deeper intra-ASEAN social and cultural understanding Encourage greater intra-ASEAN people mobility
people of institution monitor Howeve addition	nulation of the actions under the people-to- dimension is more precise than the physical or onal connectivity, which readily facilitates the ing process. r, the people-to-people dimension requires al work to identify and specify output and e indicators.



Advantages and Disadvantages of Composite Indicators





Strategy	y Name	Key Action	Action	Output indicator	Formula output indicator
		1	Upgrade all "below Class III" sections of AHN —BC3R—	Percentage of BC3Rs upgraded	$OUTP111 = \left(\frac{Kilometers \ of \ BC3Rs \ up \ graded}{Kilometers \ of \ BC3Rs \ in \ 2010}\right) * 100$
1	Complete the ASEAN Highway	2	Install common road signs in all designated routes	Percentage of Transit Transport Routes —TTRs— using common road signs	$OUTP112 = \left(\frac{Kilometers \ of \ TTRs \ using \ common \ signs}{Kilometers \ of \ TTRs \ in \ ASEAN}\right) * 10$
1	Network	3	Upgrade high traffic "Class II or III" roads —HTR— to "Class I"	Percentage of "Class II and III" roads upgraded	oads $OUTP113 = \left(\frac{Kilometers of Class 2&3 roads upgraded}{Kilometers of HTRs Class 2&3}\right) *$
		4	Complete the missing links of AHN	Percentage of missing links of AHN completed	$OUTP114 = \left(\frac{Kilometers \ of \ missing \ links \ completed}{Kilometers \ of \ missing \ links}\right) * 100$
2	Complete the implementation of SKRL project	1	Construct the missing sections of rail.	Percentage of missing sections of rail constructed	$OUTP121 = \left(\frac{Kilometers \ of \ rail \ sections \ constructed}{Kilometers \ of \ missing \ rail \ sections}\right) * 100$
3	Establish an integrated inland waterways network	1	inland waterways in ASEAN	Report: Regional plan for Inland Waterways Development — RPIWD—	
4	Accomplish an integrated maritime transport system —IMTS—	1	Enhance performance and capacity of 47 selected ports	Increase Annual Port Throughput —APT— in ASEAN region	$OUTC141 = \left[\left(\frac{Average APT in 2015}{Average APT in 2010} \right) - 1 \right] * 100$
		1	Complete the East West Economic Corridor (EWEC).		
5	Establish an integrated multimodal transport system	2	Promote the Mekong-India Economic Corridor (MIEC)	Percentage of needed road and bridges constructed	$\text{OUTP152} = \left(\frac{\text{Kilometers of road/bridge constructed}}{\text{Kilometers of roads and bridges needed}}\right) * 1$
		3	Identify and develop a network of ASEAN dry ports	MAP: Network of ASEAN dry ports	
6	Accelerate the development of ICT	1	Establish an ASEAN Broadband Corridor		
0	Infrastructure and services	2	Establish an ASEAN Internet Exchange Network		
7	Prioritise the processes to resolve institutional issues in energy	1	Trans-ASEAN Gas Pipeline —TAGP—	TAGP infrastructure project compleated	$OUTP171 = \left(\frac{TAGP \ projects \ compleated \ by \ 2015}{Number \ of \ TAGP \ project \ required}\right) * 100$
	infrastructure projects	2	ASEAN power grid - APG-		

Strategy	Name	Key Action		Outcome indicator	Description outcome indicator
1	Complete the ASEAN Highway Network	1	Upgrade all "below Class III" sections of AHN _BC3R_	Reduction in freight transport time 	$OUTC111 = \left[\left(\frac{AHN \ average \ speed \ in \ 2014}{AHN \ average \ speed \ in \ 2010} \right) - 1 \right] * 100$
		2	Install common road signs in all designated routes		
		3	III roads —HTR— to "Class I"		$\text{OUTC113} = \left[\left(\frac{\text{HTRs average speed in 2014}}{\text{HTRs average speed in 2010}} \right) - 1 \right] * 100$
		4	Complete the missing links of AHN	Optimization of road freight routes	$OUTC114 = \left(\frac{Optimal\ Road\ Route\ (time)}{Suboptimal\ Road\ Route\ (time)}\right)$
2	Complete the implementation of SKRL project	1	Construct the missing sections of rail.	Optimization of rail freight routes	$\texttt{OUTC121} = \left(\frac{Optimal Road Route (time)}{Suboptimal Road Route (time)}\right)$
3	Establish an integrated inland waterways network	1	Regional plan for developing inland waterways in ASEAN	Increase in Freight Volume using Inland Waterways — FVIW—	$OUTC131 = \left[\left(\frac{FVIW \text{ in } 2015}{FVIW \text{ in } 2010} \right) - 1 \right] * 100$
4	Accomplish an integrated maritime transport system —IMTS—	1	capacity of 47 selected ports	index —LSCI— trend	Time series model to detect structural change on the LSCI trend due to the IMTS
		1	Complete the East West Economic Corridor (EWEC).	Increase in Cargo flows coming in and out of Yangon and Da Nang Ports	$\text{OUTC151} = \left[\left(\frac{\textit{Volume of cargo handle in 2015}}{\textit{Volume of cargo handle in 2010}} - 1 \right] * 100$
	Establish an integrated multimodal transport system	2	Promote the Mekong-India Economic Corridor (MIEC)	Increase in truck traffic in the MIEC	$OUTC152 = \left[\left(\frac{Number of trucks per day in 2015}{Number of trucks per day in 2010} \right) - 1 \right] * 100$
		3	Identify and develop a network of ASEAN dry ports		
6	Accelerate the development of ICT Infrastructure and services	1	Establish an ASEAN Broadband Corridor	Change in Broadband Penetration —BP— trend: "Broadband subscribers per 100 inhabitants"	Time series model to detect structural change on the BP trend due to the ASEAN Broadband Corridor
		2	Establish an ASEAN Internet Exchange Network	Change in Internet Users —IU— trend: "Internet Users per 100 inhabitants"	Time series model to detect structural change on the IU trend due to the ASEAN Internet Exchange Network
7 i	Prioritise the processes to resolve institutional issues in energy infrastructure projects	1	Trans-ASEAN Gas Pipeline —TAGP—		
		2	ASEAN power grid —APG—	APG Semi-elasticity of ASEAN shortfalls	Time series model to estimate the percentage reduction in shortfall due to the implementation of Total Integrated APG

