

ADB

## **Logistics Development : Exploring the Collaborations**

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### Agenda

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- ▶ Background & logistics development policy
- ▶ Logistics infrastructure characteristics
- ▶ Example of Corridor Development
- ▶ Methodology
- ▶ NSEC logistics analysis
- ▶ Summary



## Background

## Logistics Development Policy

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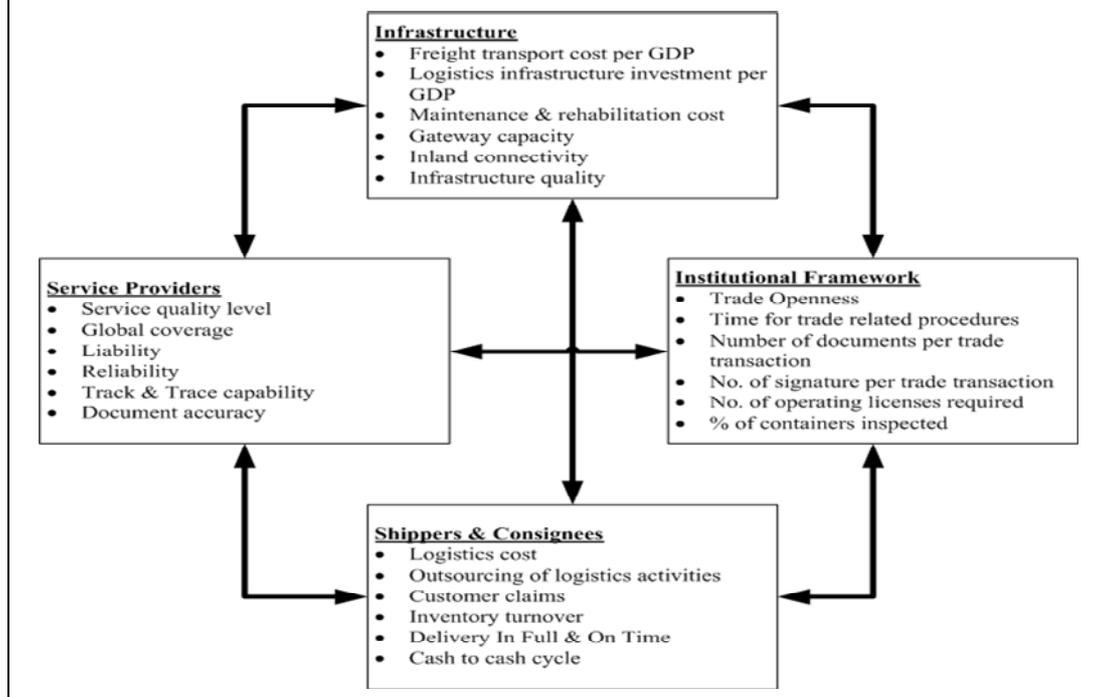
### **Proposed working definition:**

“Logistics development policy is the process of planning, facilitating, implementing, integrating and controlling the efficient, effective flow and storage of freight, people and information within and between logistics systems, for the purpose of enhancing traders’ competitiveness in order to increase national and/or regional competitive advantage.”

## Background

- ▶ The improvement of logistics in the NSEC and EWEC can provide the foundation for further economic integration in the GMS.
- ▶ Inadequate transport infrastructure and high logistics service costs have constrained economic corridor development and integration and more.
- ▶ Adequate transport and communications facilities are considered major determinants of trade performance and of the costs and profitability of trading internationally

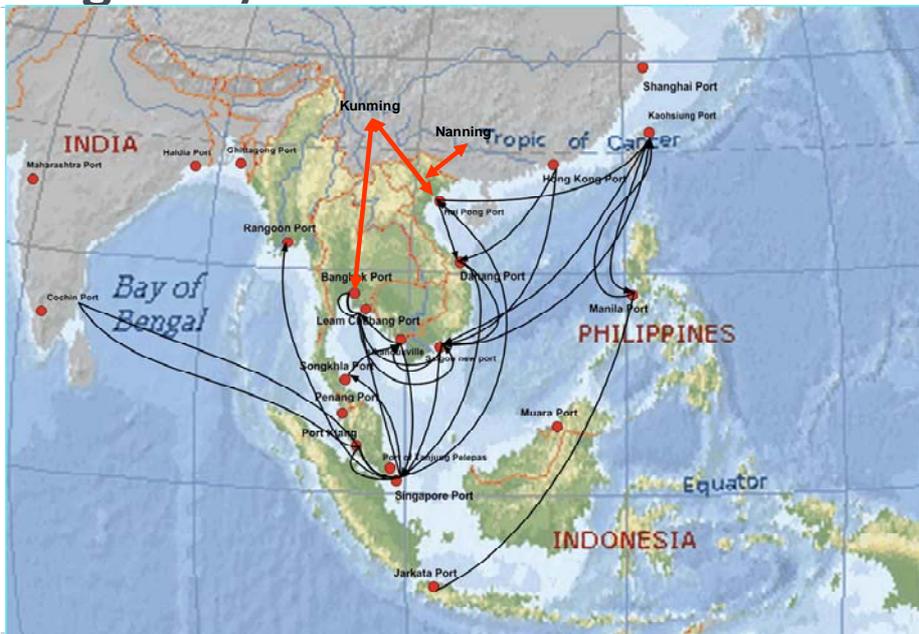
## Logistics System Indicators: A proposed macro scorecard



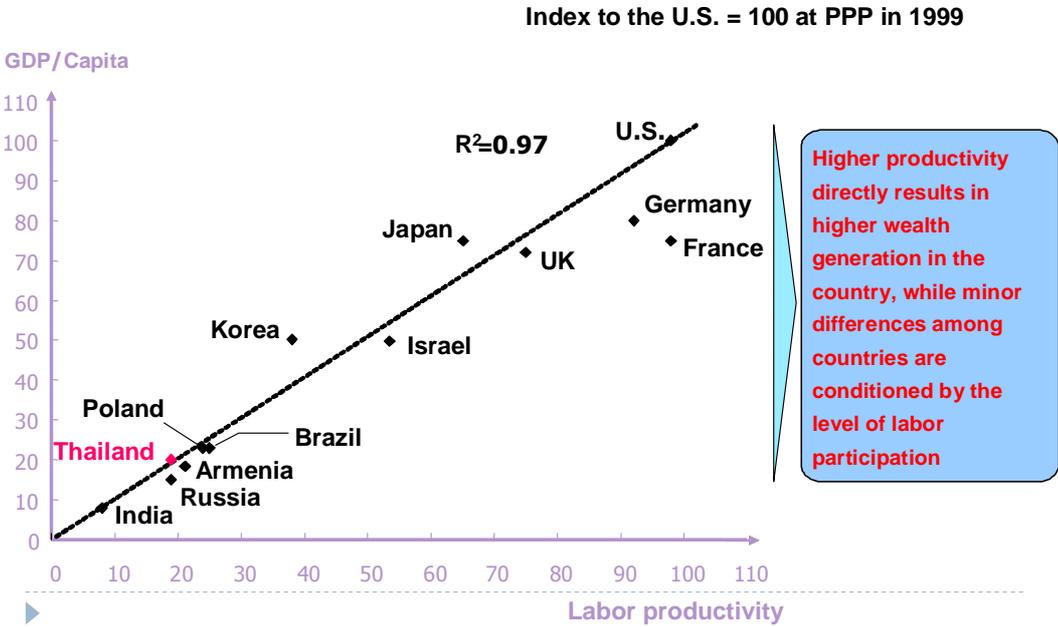
## Corridor development

Stage	Corridor	Definition
Level 1	Transport Corridor	Corridor that physically links an area or region
Level 2	Multimodal Transport Corridor	Corridor that physically links an area or region through the integration of various modes of transport.
Level 3	Logistics Corridor	Corridor that not only physically links an area or a region but also harmonise the corridor institutional framework to facilitate the efficient movement and storage of freight, people and related information.
Level 4	Economic Corridor	Corridor that is able to attract investment and generate economic activities along the less developed area or region. Physical linkages and logistics facilitation must be in place in the corridor as a prerequisite.

## Linking land/IWT & maritime corridors

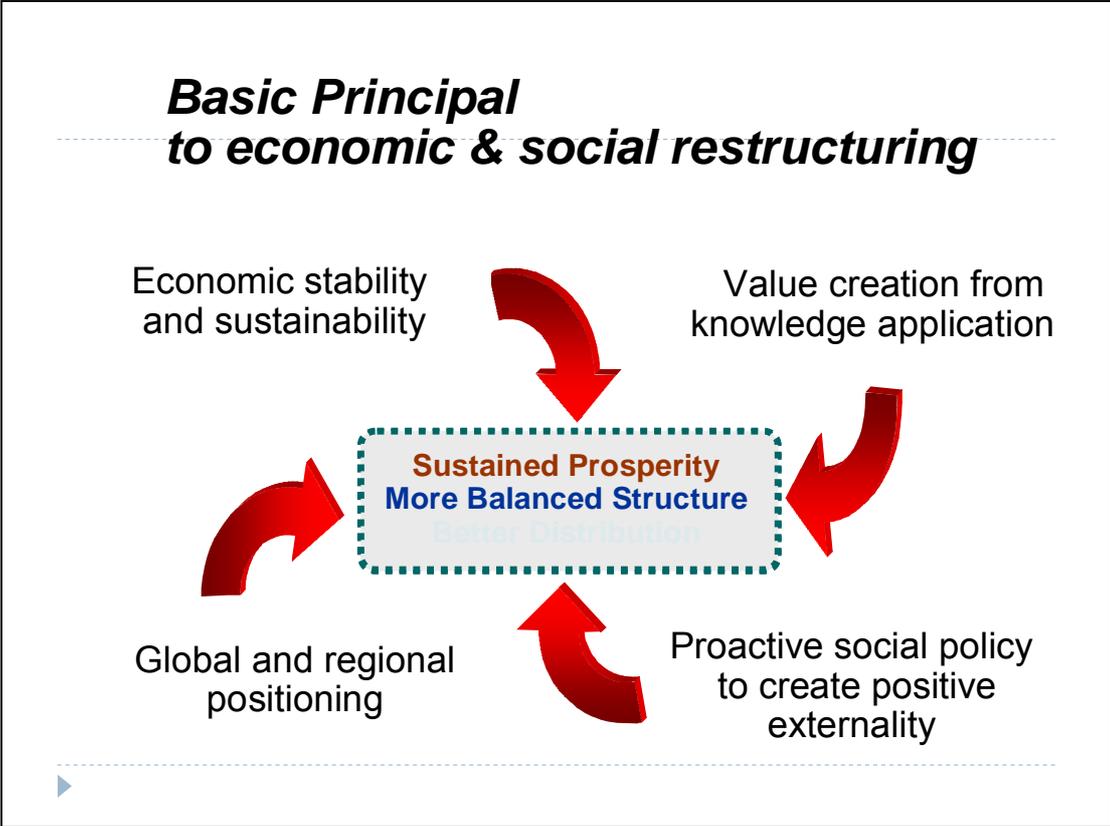
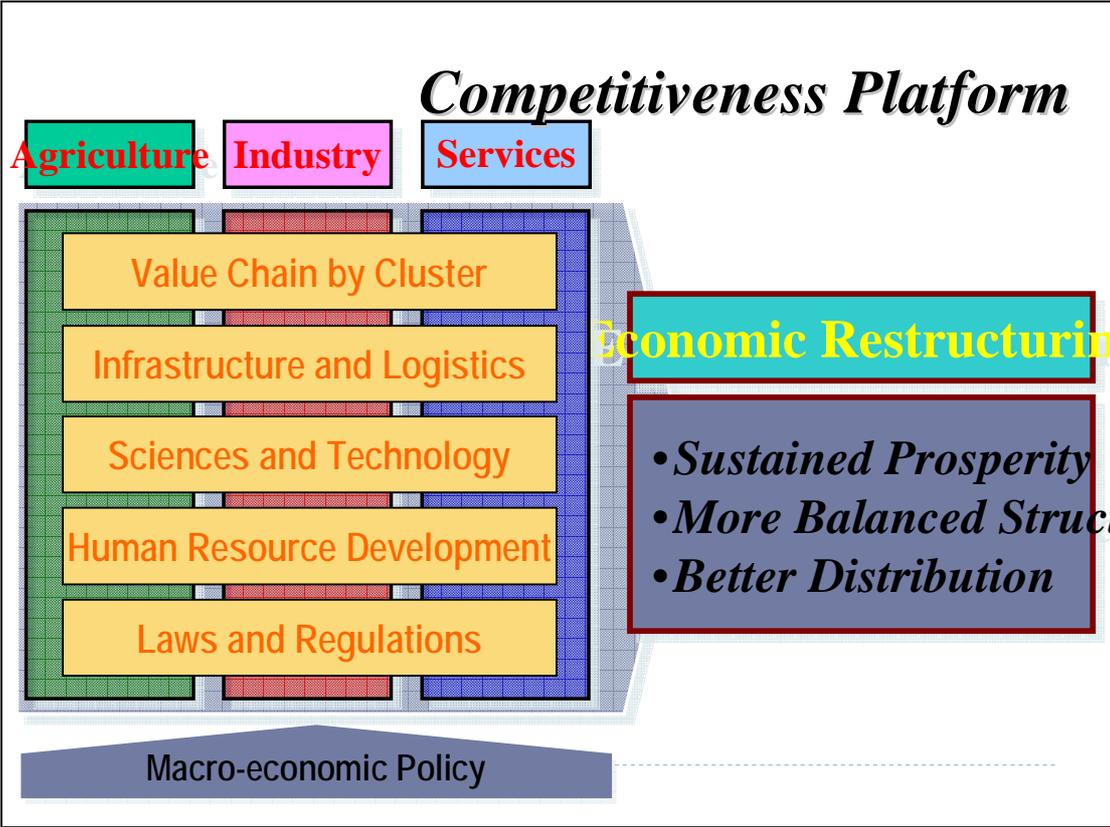


### Higher productivity results in higher total wealth



### Innovation-Driven Economy





## Example of NSEC' Issues

Competition Perspectives

## NSEC/GMS Logistics Characteristics

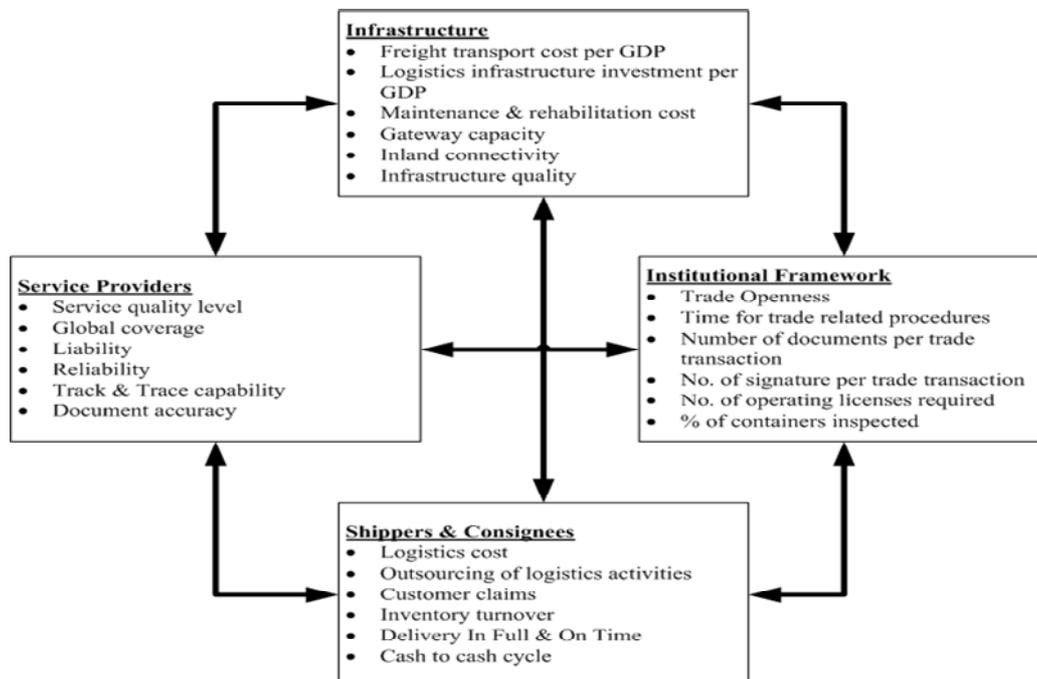
	<b>Road</b>	<b>Port</b>	<b>IWT</b>	<b>Airport</b>	<b>Railway</b>
<b>Guangxi (PRC)</b>	Fair/Good	Fair	Fair	Good/Fair	Good/Fair
<b>Lao PDR</b>	Fair/Poor	Poor	Fair/Poor	Poor	N/A
<b>Myanmar</b>	Poor	Poor	Fair	Poor	Fair
<b>Thailand</b>	Good	Fair	Fair	Good/Fair	Fair
<b>Vietnam</b>	Fair/Poor	Fair	Fair	Fair	Fair
<b>Yunnan (PRC)</b>	Fair/Good	Fair	Fair	Good/Fair	Good/Fair

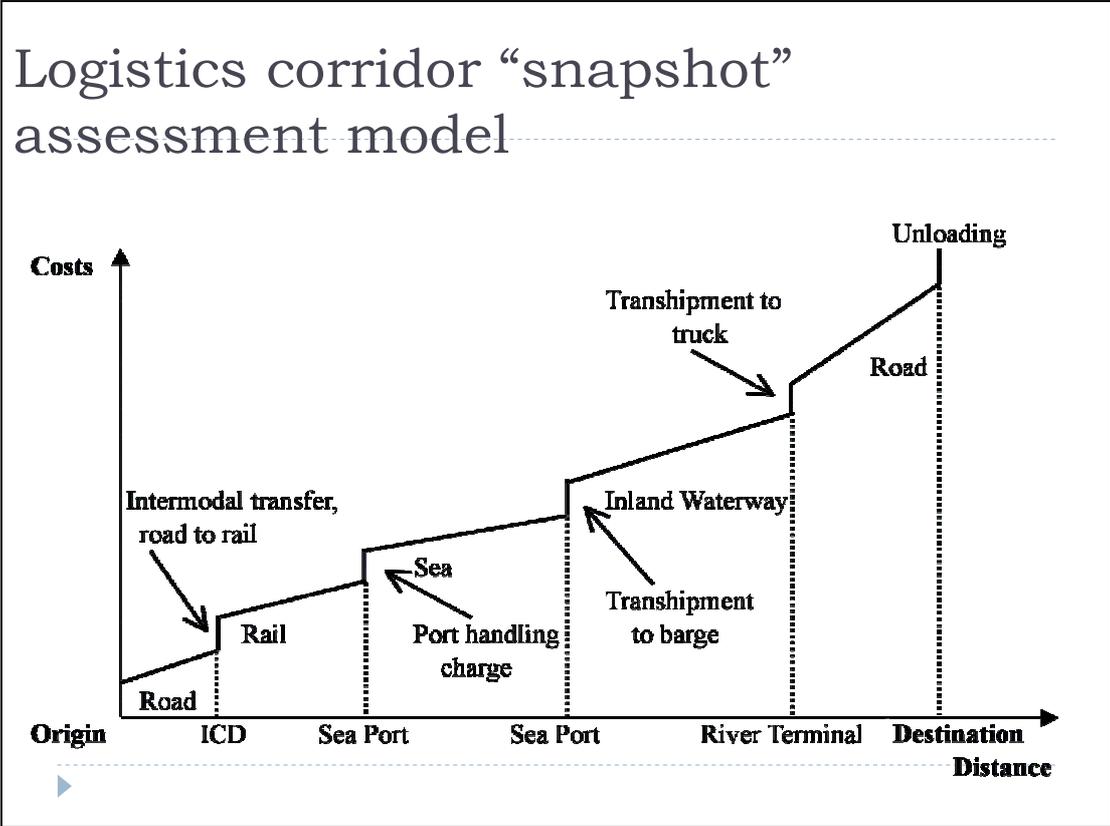
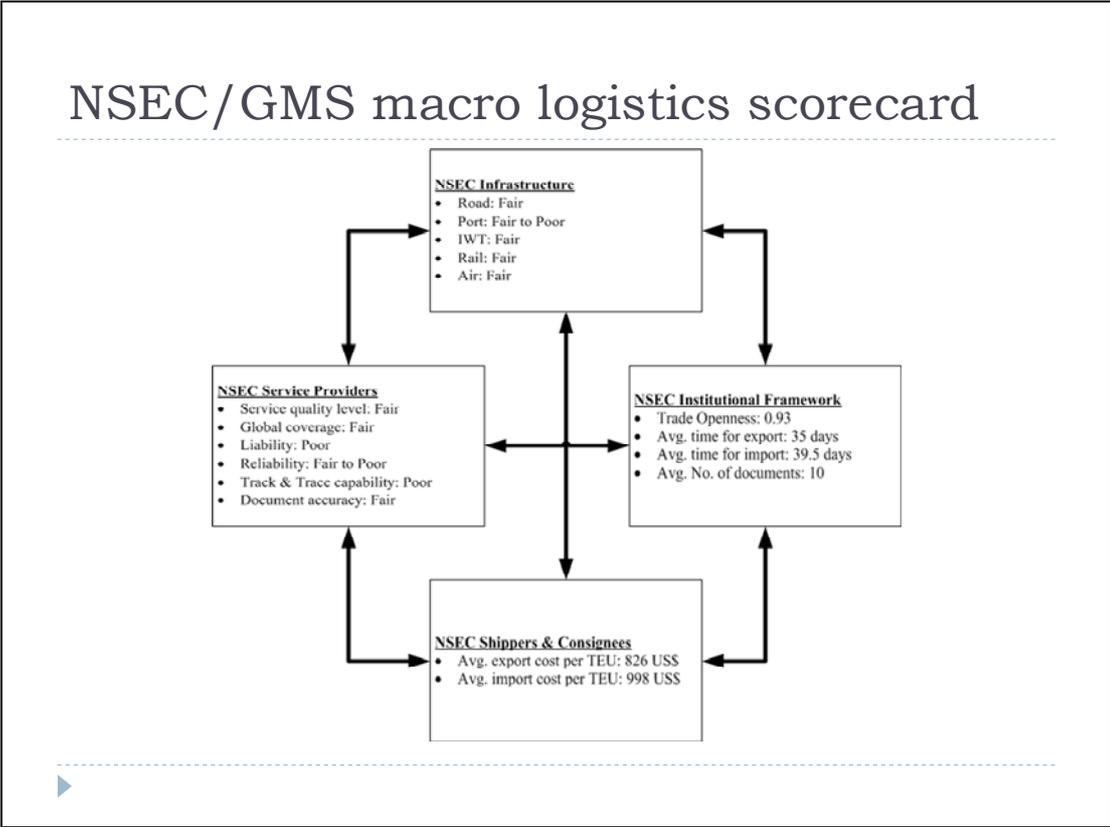
Source: Compiled from industry

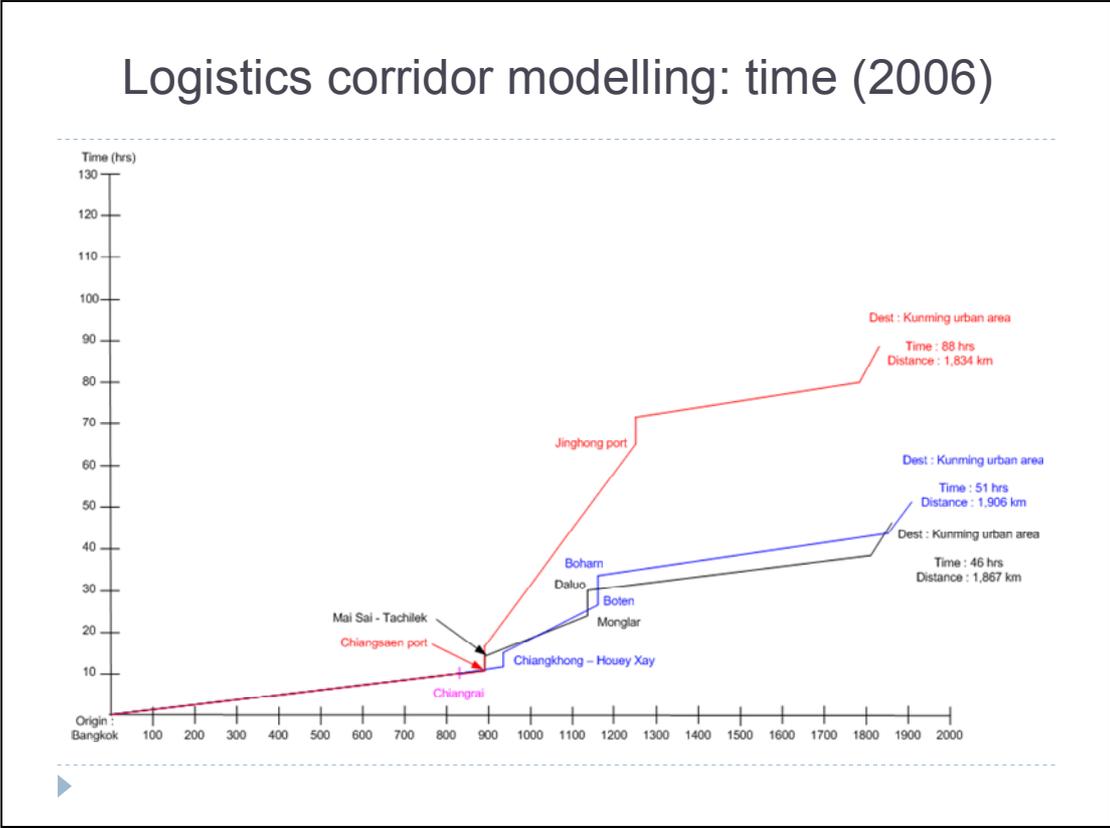
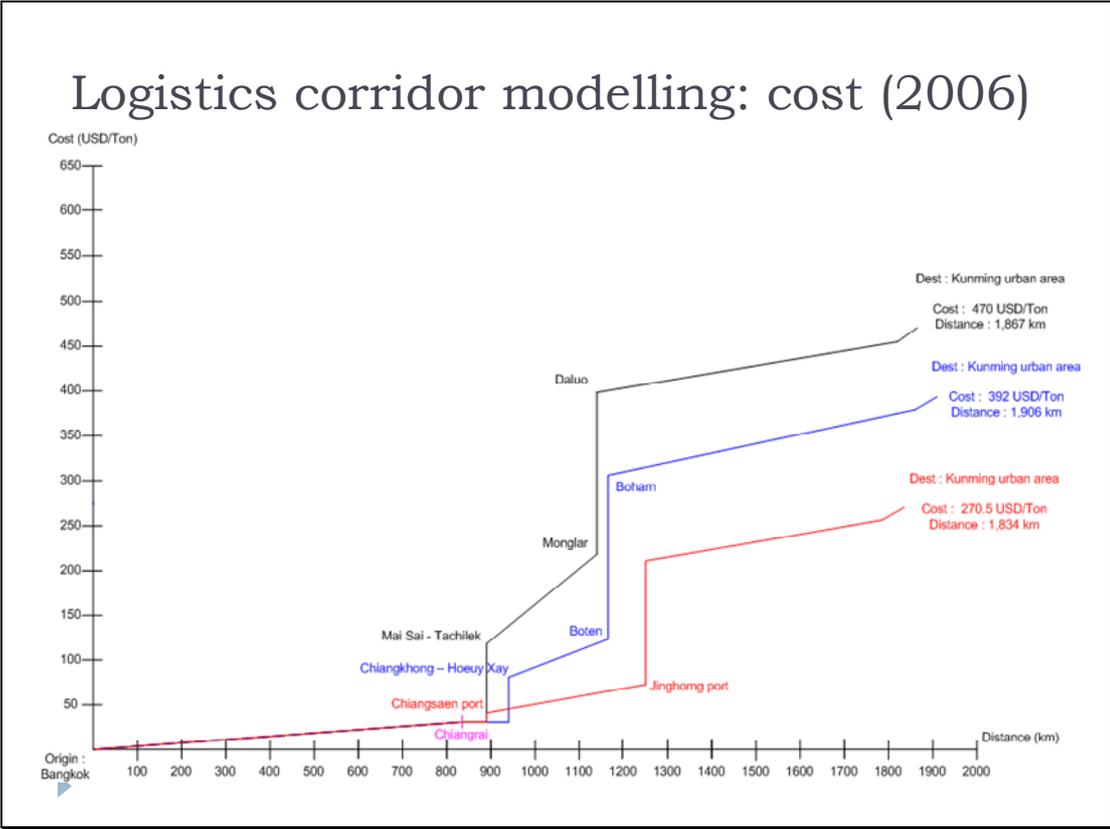
## Methodology

- ▶ Logistics Scorecard
- ▶ Logistics corridor “snapshot” assessment model
- ▶ Perception of reliability index

## Logistics System Indicators: A proposed macro scorecard





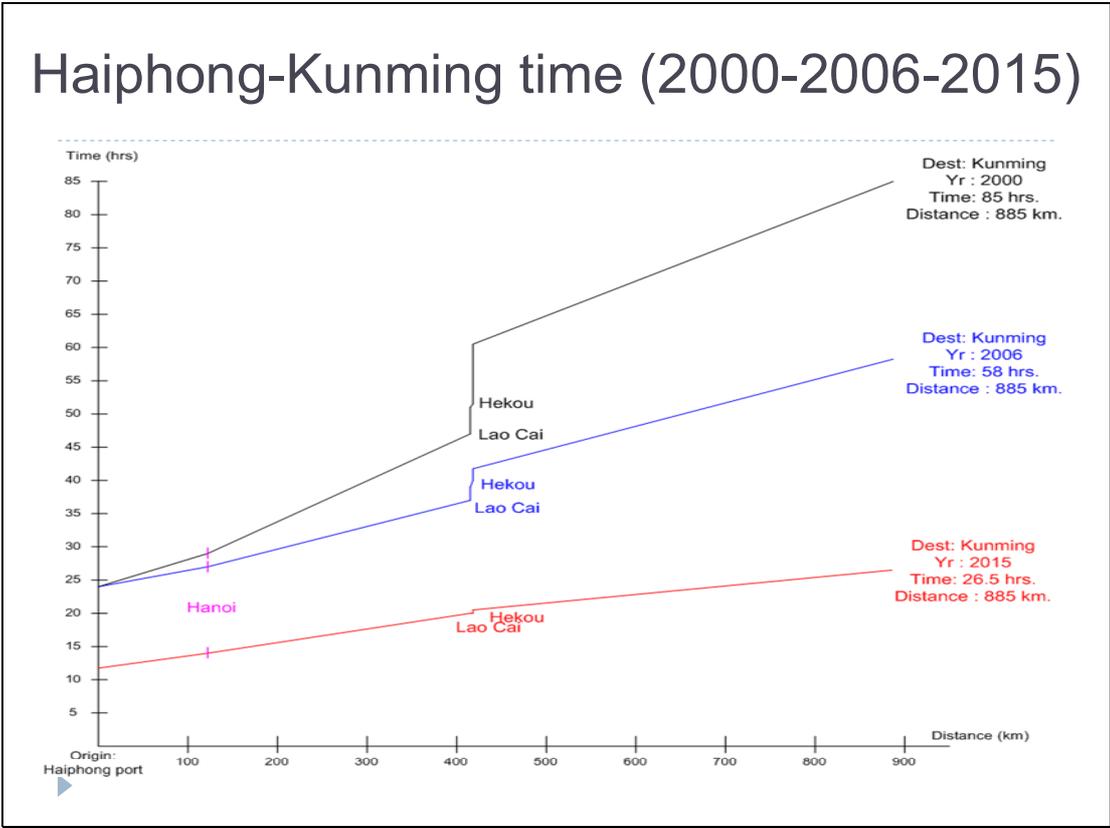
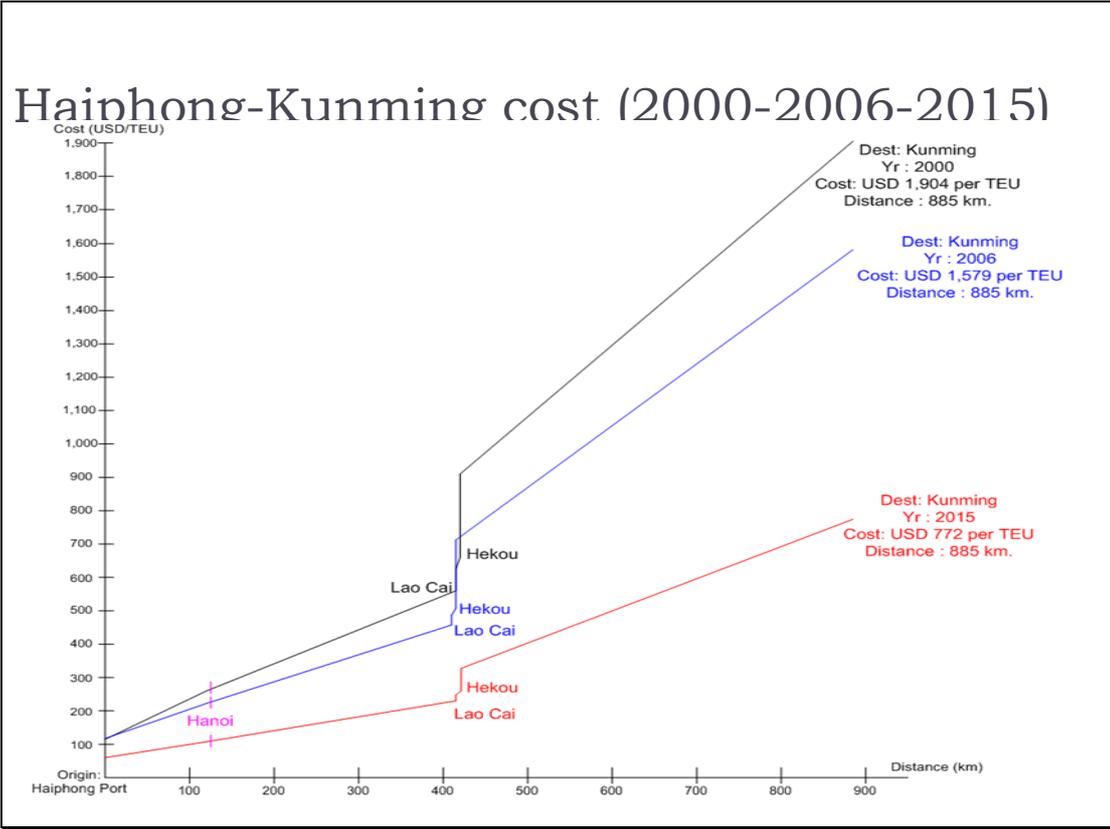


## Corridor Level Assessment: R3

From	To	Level
Bangkok	Chiangrai	3
Chiangrai	Mae Sai	3
Chiangrai	Chiangsaen	3
Chiangrai	Chiangkhong	3
Mae Sai/Tachilek	Mongla/Da Luo	1
Daluo	Kunming	3
Chiangsaen	Jinhong	2
Jinhong	Kunming	3
Chiangkhong/Hoeuy Xay	Bo Ten/Bo Harn	1
Bo Harn	Kunming	3
	<b>Overall level</b>	<b>1</b>

## Trends on the Bangkok-Kunming corridor

Bangkok-Kunming	\$/ton	Transit Time	Perception of reliability (based on 5 point scale)
<b>R3W (via Myanmar)</b>			
•2000	\$639	77 hrs	2.2
•2006	\$470	46 hrs	3
•2015	\$269	30 hrs	3.5
<b>R3E (via Lao PDR)</b>			
•2000	\$563	78 hrs	2.6
•2006	\$392	51 hrs	3.3
•2015	\$210	30 hrs	4
<b>Via (Mekong River)</b>			
•2000	\$406	128 hrs	2.7
•2006	\$270.5	88 hrs	3.4
•2015	\$107	70 hrs	3.7



### Haiphong-Kunming cost and time breakdown

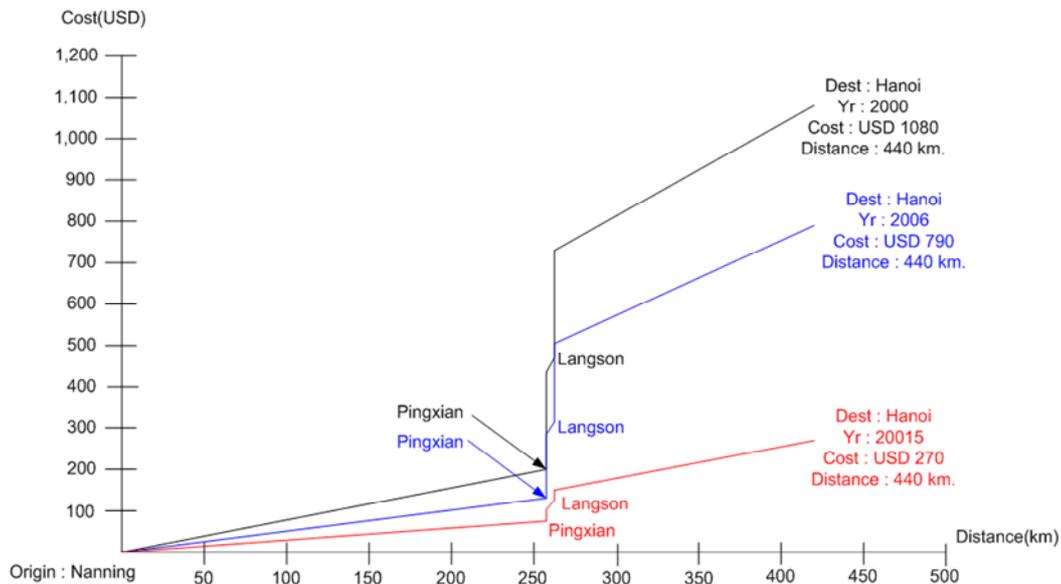
Haiphong - Kunming	Transport cost	Port/Border & Transit fees	Corridor Cost	Transport time	Port/Border crossing time	Corridor Time
2000	76%	24%	100%	55%	45%	100%
2006	77%	23%	100%	50%	50%	100%
2015	80%	20%	100%	52%	48%	100%

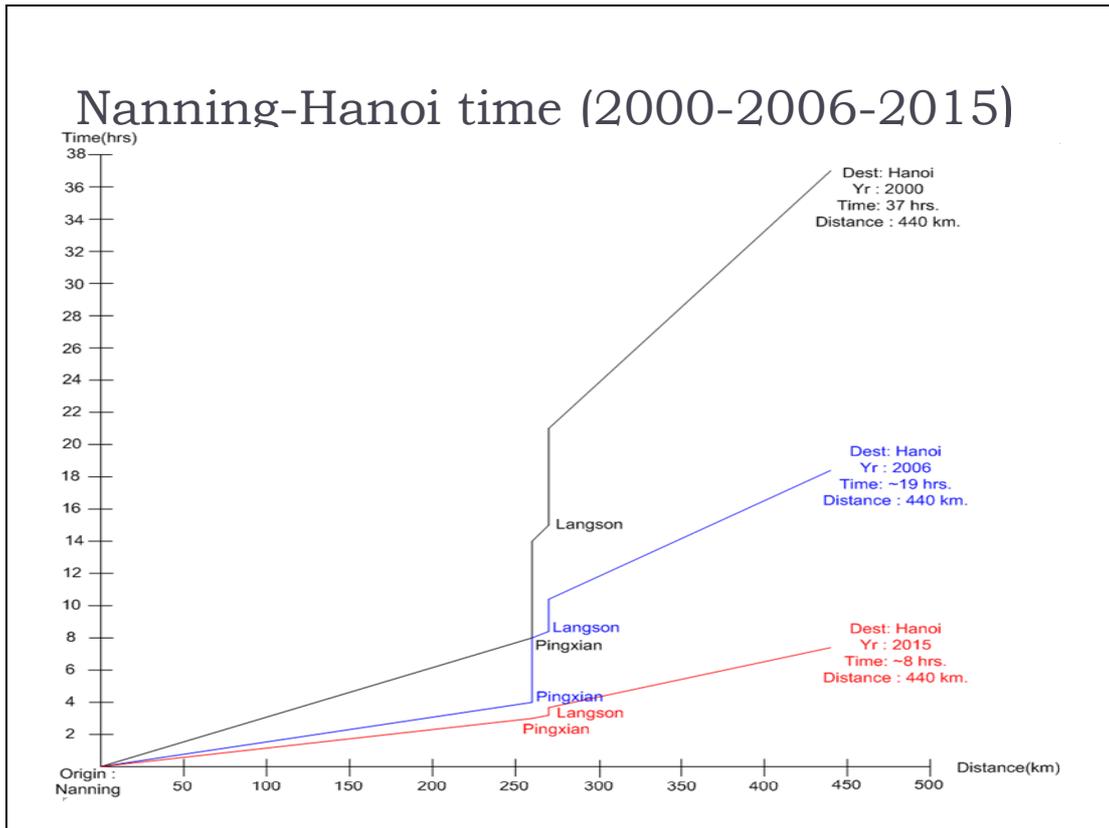
### Trends in the Haiphong-Kunming corridor

Haiphong-Kunming	\$/ton	Transit Time	Perception of reliability
Year 2000	\$105	85 hrs	2.4/5
Year 2006	\$87	58 hrs	2.7/5
Year 2015	\$43	26.5 hrs	3.8/5



### Nanning-Hanoi cost (2000-2006-2015)





### Nanning-Hanoi cost and time breakdown

Nanning-Hanoi	Transport cost	Port/Border & Transit fees	Corridor Cost	Transport time	Port/Border crossing time	Corridor Time
<b>2000</b>	51%	49%	100%	64%	36%	100%
<b>2006</b>	52%	48%	100%	63%	37%	100%
<b>2015</b>	72%	28%	100%	87%	13%	100%

### Trends in the Nanning-Hanoi corridor

Nanning-Hanoi	\$/ton	Transit Time	Perception of reliability
<b>Year 2000</b>	\$37	37 hrs	3
<b>Year 2006</b>	\$27	19 hrs	3
<b>Year 2015</b>	\$9	8 hrs	3.8

## Corridor Level Assessment

From	To	Level
Haiphong	Hanoi	3
Hanoi	Lao Cai/He Kou	1
He Kou	Kunming	3
	<b>Overall level</b>	<b>1</b>

From	To	Level
Nanning	Pinxian	3
Pinxian	Lang Son	1
Lang Son	Hanoi	3
	<b>Overall level</b>	<b>1</b>

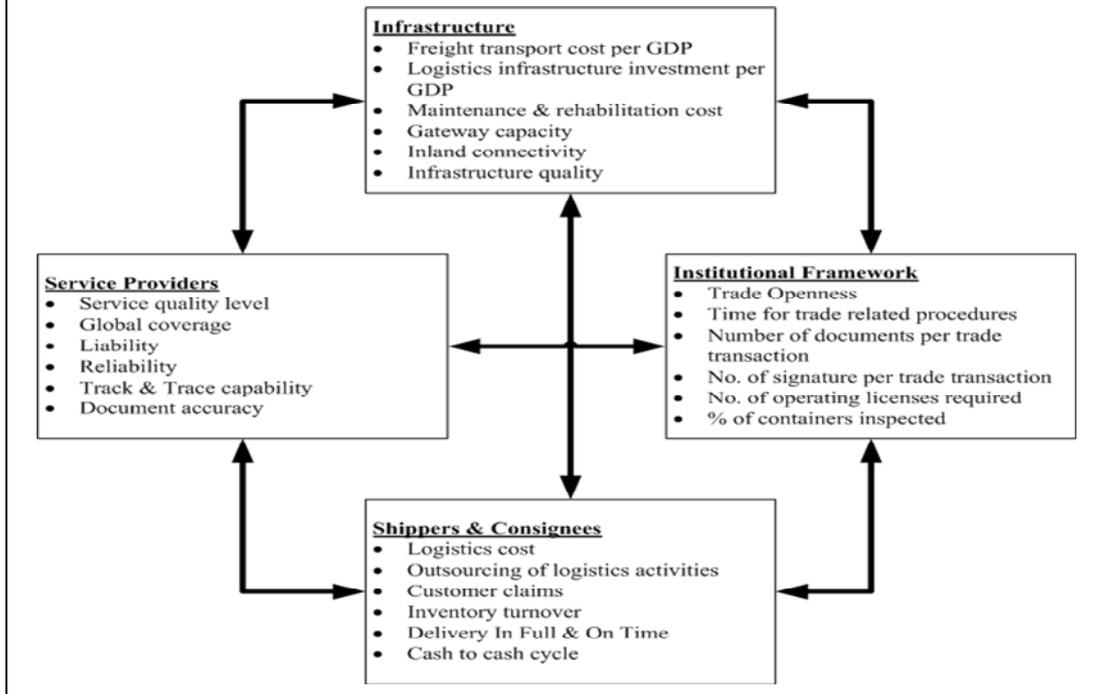


## Summary

Routeing	Cost/Ton	Time (hrs)	Distance (km)	Perception of Reliability
R3W via Myanmar	470 US\$	45	1,867	3
R3E via Lao PDR	392 US\$	51	1,906	3.2
R3 via Mekong River	270.5 US\$	112	1,834	3.4
Haiphong-Kunming	87 US\$	58	885	2.7
Nanning-Hanoi	27 US\$	19	440	3



# Logistics System Indicators: A proposed macro scorecard



## Proposed project relationship with NSEC logistics development issues

NSEC logistics issues	Proposed Projects
<b>Trade &amp; Transport Facilitation</b>	<ul style="list-style-type: none"> <li>Pilot implementation of trade and transport facilitation measures (SFA-TFI and CBTA) along Route 3E</li> <li>Inclusion of Nanning-Hanoi Corridor in the Scope of the CBTA</li> <li>Expansion of bilateral exchange of traffic rights arrangements along the Kunming-Hanoi-Haiphong road link</li> <li>Single-window inspection at selected inland ports along the , including use of ICT, and standardized inspection and documents</li> <li>Promotion of inter-provincial &amp; district cooperation and coordination mechanisms (logistics facilitation)</li> <li>Establishment of mechanisms to improve coordination between and among central, provincial and border officials</li> </ul>
<b>Infrastructure Development</b>	<ul style="list-style-type: none"> <li>Border Towns Development in NSEC Border Areas</li> <li>Developing road connections from Lao interior districts to Route 3</li> </ul>
<b>Infrastructure Maintenance</b>	<ul style="list-style-type: none"> <li>Provision of maintenance funds for Mekong River Navigation</li> </ul>
<b>Capacity Building</b>	<ul style="list-style-type: none"> <li>Developing logistics capacity in the NSEC</li> </ul>
<b>Further Development Studies</b>	<ul style="list-style-type: none"> <li>Study on the establishment of cross-border logistics centres along the NSEC routes</li> <li>Study on the establishment of road maintenance fund, and traffic management for the NSEC</li> <li>Study on the establishment of NSEC logistics standard information system</li> </ul>

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- ▶ Rules & regulations (software) in place but not totally implemented.
  - ▶ Border crossings are still the weakest link in the corridors.
  - ▶ Transit trade minimal compared to border trade.
  - ▶ No economic corridor (level 4) yet only transport corridors are in place
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## Summary

## Summary of Corridor Development

- ▶ **Assessment of Stakeholders (e.g. gov , private, etc.)**
  - ▶ National/Local Development
  - ▶ International Development
- ▶ **Assessment of Design Variables (e.g. policies, technology, finance, etc.) in the four dimensions**
- ▶ **Assessment of Constraints (e.g. culture) in all dimensions**
- ▶ **Risk Assessment and Benefits Evaluation**
  - ▶ Cost Reduction
  - ▶ Time Reduction
  - ▶ Reliability / Quality of Service Improve



## Key Comments

- ▶ **Holistic Picture is needed**
- ▶ **Different Value Chains**
  - ▶ Direct and Indirect Benefits
  - ▶ Side effect of development
- ▶ **Sharing Goals >>Trust Establishment >>**
- ▶ **Cooperation/Competition**



Call on **Synergy** of Trade  
and Logistic Systems  
Development **Strategies**  
among Groups/Countries