Subgroup 4

"Guidance for the Developing Countries to Build a Sustainable Freight Transport System"

Members of Subgroup4

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Contents of Report

1. International Multimodal Transport

Found out issues common in developing countries.

2. Transport Development Policies

18 policies provided to improve transport such as Land Use Planning, Congestion Free System and Safety And Quality of Services.

3. International Border Crossing

6 key factors provided for simplification in crossing border transport among several countries.

4. Conclusions and Recommendations

- 1. There can't be one unified approach for all the countries and the continents.
- 2. There is a need to develop an appropriate approach compatible to a given economy.
- 3. Five points are made as a recommendation to promote sustainable transportation system.

1. International Multimodal Transport

Why need International Multimodal Transport?

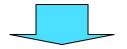
Globalization of market (Supply and Demand)



Urgent need of international regulation to help facilitate international transport (especially landlocked counties)

Following issues are common in developing countries

- Imbalanced means of transport
- Deficient or inadequate infrastructure
- Lack of harmony in regulations for international transport



Developing countries need to improve international multimodal transport system

There are key factors to consider.

18 key factors to consider

- I. Planning/Assessment
 - 1. Land use plan
 - i.e. increase facilities

2. Development plan

Need of short term and long-term Development plan

3. Prioritization of projects

The weighted evaluation provides the priority list of road projects

4. Decentralization

after the minimum goal is achieved to eliminate the regional imbalances

5. Assessment of economic benefits

i.e. Cost benefit analysis, Environmental impact study etc.

18 key factors to consider

II. Social/Environment

6. Environmental protection i.e. reducing traffic-generated pollution



- 7. Harmonization with the natural environment e.g. minimize cutting and filling when building highways.
- 8. Resource management and waste utilization i.e. recycle and reuse
- 9. Sustainable energy sources i.e. solar energy and wind energy etc.

10. Social development tool

e.g. new roads induce economic growth, boost the tourism

18 key factors to consider

III. Service level of transport

- 11. Congestion free system i.e. building roads adequate for traffic demand
- 12. Safety and quality of services i.e. safe road design, driver education

13. Intelligent transport systems (ITS) expensive but effective for building a safe, congestionfree road system

14. Supporting secondary services

i.e. insurance service to cover the loss of the commodities transported

15. Competition among the means of transport (road, rail, air etc.) giving the opportunity to choose the optimal mean of transport

18 key factors to consider

IV. Organization

16. Working together with related public authorities such as Environmental Ministry and Labor Regulation Authority

17. Public consultation

There should be national debate on fixing the priorities of development projects.

18. Design and planning team

Technical personnel and planners has to be employed

There can't be one unified approach for all countries. Needs to develop an appropriate approach compatible with a given situation.

3. International Border Crossing

6 issues are identified in simplification of cross border transport.

(1) Multinational agreements

Agreements with several countries within a wide-area for transit movement.

(2) Vehicle emission requirements

World standard has to be used to control vehicle emission.

(3) Axle load control

Important requirement to protect pavement structure.

(4) Vehicle dimension control

Agreement is needed on various size of freight vehicles among trading countries.

(5) Tariffs, road user charges and transit fees

Common road user charge system for international and domestic vehicles to avoid stopping vehicles at borders

(6) Transport services

Food, sanitary, medical service, finding return cargos etc.

4. Conclusions and Recommendations

Common issues in developing countries

- Imbalanced means of transport (I.e. lack of multimodal transport system)
- Inadequate infrastructure
- Inadequate social system
- Need for simple and harmonized regulations for international transport

Recommendations

To solve the issues and to promote sustainable transportation system, it is needed to...

- 1. Establish a multimodal transport system
- 2. Utilize international experts
- 3. Have regular conventions of concerned countries for discussion of the related issues
- 4. Establish an independent body which assesses impact of transport growth
- 5. Establish a special bodies constituted by international agencies for developing simple regulations for international transport

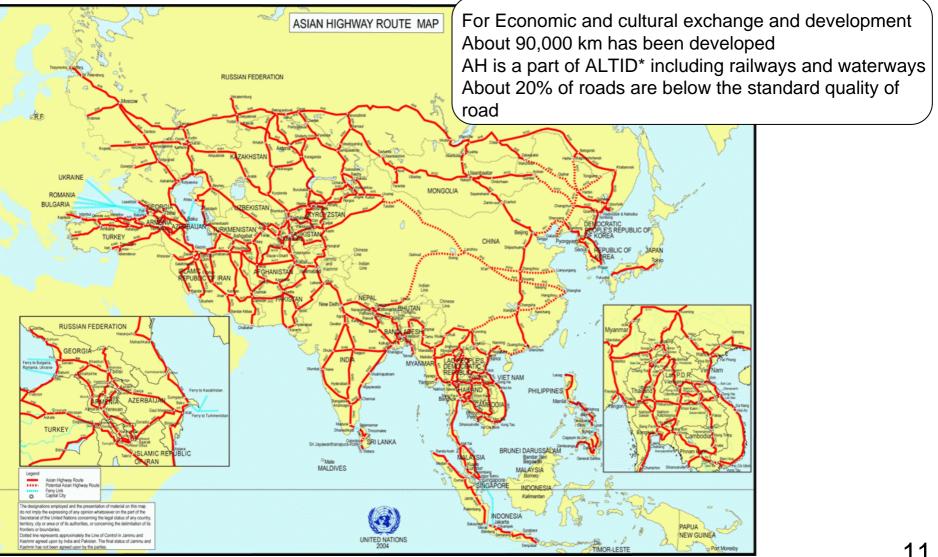
Case examples

International intermodal freight transport in Asia

- 1. Asian highway plan and current state of development
- 2. Effects of cross-border traffic infrastructure development (Thai-Malaysia)
- 3. ASEAN logistics map (Japan)
- 4. Partnership for Competitive International Distribution (Japan)
- 5. Conclusion

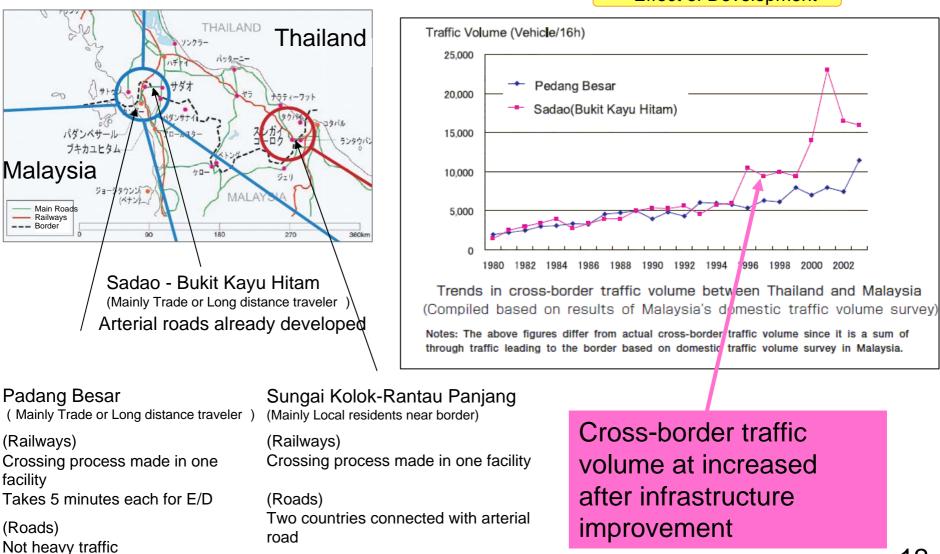
1. Asian Highway (AH) plan and current state of development

-41,000 kilometers of roadways crisscrossing 32 Asian countries with linkages to Europe -A total of US\$26 billion has already been invested in Asian Highway



2. Effects of cross-border traffic infrastructure development (Thai-Malaysia)

Developing roads and railways as infrastructure for cross-border traffic



Cross-border traffic volume at increased after infrastructure improvement

Effect of Development

996

1998

2000 2002

3. ASEAN logistics map (JETRO, Japan)

Contributing seamless international logistics by learning bottlenecks at borders in ASEAN



Researched 7 routes Japanese companies are interested

Sample images of data

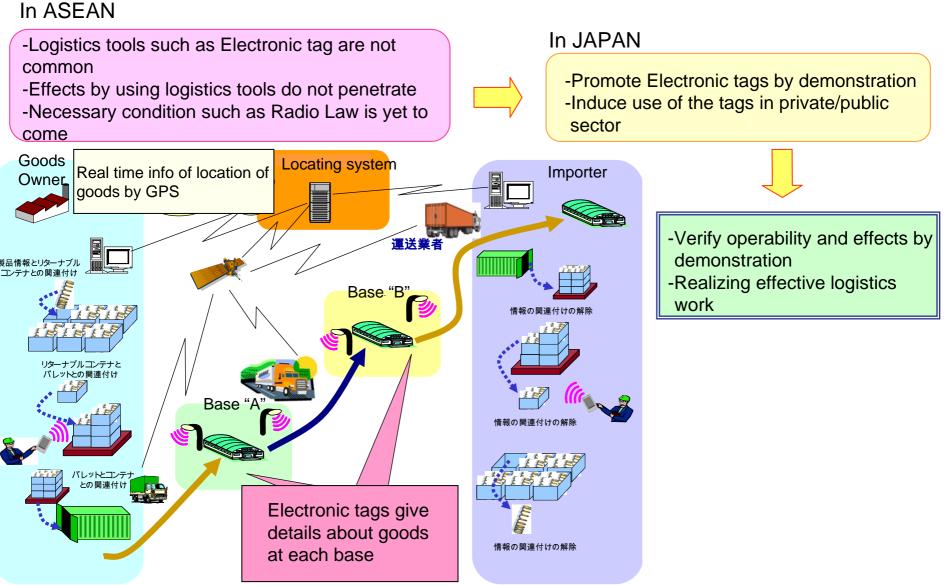
- -Focusing on customs at the borders and EDI* system.
- -Transport mode includes Air, Sea and Land.

-Comparing transport costs, travel time and time needed for customs of each country to another.

Enables owners of goods to choose the optimal root considering estimated lead time and costs.
Induces countries to develop/improve logistics infrastructure (software and hardware) with this map.
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4. Partnership for Competitive International Distribution (Japan)

Aiming for reducing logistics cost and lead time by half in ASEAN in a long run



5. Summary

Improvement of International intermodal transport is underway

- -Cross-border Infrastructure development is underway. Effects of traffic volume increase after cross-border infrastructure development.
- -Seamless international transport tools such as ASEAN logistics map.
- -Software such as electronic tags for smooth international transport.