Overview of PIARC TC2.4

STRATEGIC THEME 2、 COMMITTEE (C 2.4)

"FREIGHT TRANSPORT AND INTERMODALITY"

Chairperson: Eiichi Taniguchi

1. Overview

Objective

The research work by TC2.4 focuses on...

- a. current status of freight transport in member countries
- b. How challenges regarding freight transport and logistics should be tackled

Committee Members

Members joined from Japan, European countries such as France, Italy, Switzerland, and developing countries such as Mongolia and Burkina Faso

Chairman :	Prof. Eiichi Taniguchi Kyoto Univ.	Subgroup2	Hans SILBORN, Norway (Facilitator)
Secretaries	: Yoshi Imanishi Public Planning & Policy Studies, Inc.		Csaba OROSZ, Hungary
	Jean-Charles POUTCHY-TIXIER, France		Jean-Charles POUTCHY-TIXIER, France
Subgroup1	Younoussa KOÏTA, Guinea (Facilitator)		Martin RUESCH, Switzerland
	Olivier COLIGNON, France		Wanda DEBAUCHE, Belgium
	Jean-Louis GLUME, Belgium	Subgroup3	Pieter DE WINNE, Belgium (Facilitator)
	Harouna CISSE, Mali		Jan FRANCKE, Netherlands
	Mircea NICOLAU, Romania		Yoshi Imanishi Public Planning & Policy Studies, Inc.
	Emanuele SCOTTO, Italia	Subgroup4	Anders LUNDQVIST, Sweden
	Ali TRAORE, Burkina Faso		Baasankhuu MANDUUL, Mongolia (Facilitator)

1. Overview

Meetings and Seminars

6 international technical meetings and 2 seminars were held between 2004 and 2027 period.

Dates and Places of Technical Committee meetings

Date	Place
20 th – 22 nd , Apr., 2004	Paris (France)
23 rd – 24 th , Sep., 2004	Stockholm (Sweden)
13 th , Jun., 2005	Ouagadougou (Burkina Faso)
17 th – 18 th , Nov., 2005	Tokyo (Japan)
8 th – 9 th , Jun., 2006	Oslo (Norway)
4 th – 5 th , Sep., 2006	Ulaanbaatar (Mongol)
23 rd – 25 th , Apr., 2007	Zurich (Switzerland)

Dates and Places of Seminars

Date	Place
14 th Jun., 2005	Ouagadougou (Burkina Faso)
4 th – 5 th , Sep., 2006	Ulaanbaatar (Mongol)

1. Overview

4 Subgroups Worked on Own their Themes

Subgroup 1: Development of logistics

- a. Review how countries have dealt with increased freight traffic
- b. Consider examples of how freight logistics has changed and developed
- c. Consider what the key aspects are for the future for countries at different stages

Subgroup 2: Alternatives and terminals

- a. Review the solutions envisaged as alternatives to freight movement by road
- b. Analyse how intermodal terminals facilitated improvements in freight capacity

Subgroup 3: Impacts mitigation

- a. Investigate the present and possible innovations in goods vehicles and their potential impacts
- b. Review in social and environmental effect of cases of intermodal freight transport

Subgroup 4: Guideline for Developing countries

Draft a guidance for developing countries to building a sustainable freight transport system

2. Each Subgroup's Work Summary

Subgroup 2: Alternatives and terminals

1. Need for "Intermodal Transport"

(Background)

- -Increase in Freight Transport > Increase in GDP
- -Increase in Freight Transport > Increase in Passenger Transport
- -Road Transport > Other modes (the tendency becoming noticeable year by year)
- -Social & Environmental issues caused by big demand of Freight Transport

2. Intermodal Transport Enhancement Measures

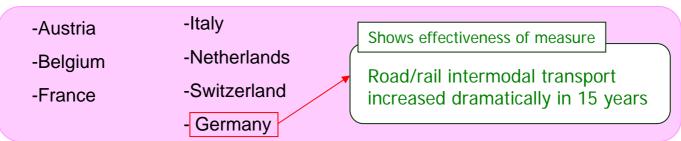
-Marco Polo

-Targeted Research

-Motorways of the Sea

-NAIADES programme

3. Best Practices of Intermodal Transport Enhancement



2. Each Subgroup's Work Summary

Subgroup 3: Impacts mitigation

1. Mechanism of negative impacts derived by freight vehicles

Various characteristics of Freight Vehicles have negative impacts

- -Vehicle Body
- -Driving Behavior
- -Driving Routes



- -Local Environment
- -Global Environment
- -Economic Efficiency
- -Safety
- -Quality of Life

2. Prospects for policies to reduce negative impacts

Freight Transport
Traffic Management



Innovative Technologies (ITS, ICT, WIM, SCM, etc.)

3. Characteristics of Freight vehicle accidents and reducing effects by Freight Transport Traffic Management

Estimated Accident reduction rates

- (1) Shifting Traffic......5% ~ 17%
- (2) Increasing Loads.....2.5%
- (3) making Traffic Safer.....10%

2. Each Subgroup's Work Summary

<u>Subgroup 4</u>: Guideline for Developing countries

1. Researched international multi-modal transport by region

2. Transport Development Policies

-Key aspect identified (it differs country to country)

Land use planning
Congestion free system
Safety and quality of services
Social development tool
Development plan

Assessment of economic benefits

Prevalence of multi public authorities
Decentralization
National consultation
Environmental protection

Blending with the natural environment Prioritization of projects

Resource management and waste utilization

Sustainable energy source Intelligent transport systems Intermodal compatibility Design and planning team Supporting secondary services

-Key aspect for international border crossing (it differs country to country)

Vehicle emission Tariffs, road user charges, and transit fees

Axle load control Transport services