



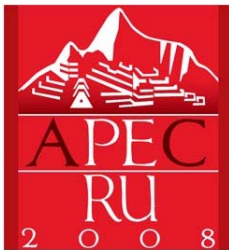
**Asia-Pacific
Economic Cooperation**

2008/TPT-WG31/IEG

**INTERMODAL AND INTELLIGENT
TRANSPORTATION SYSTEMS EXPERTS
GROUP (IIEG)
FINAL REPORT**

Purpose: Information

Submitted by: Chair
USA



**31st APEC Transportation Working Group Meeting
Lima, Peru
25-29 August 2008**

REPORT OF THE INTERMODAL and INTELLIGENT TRANSPORTATION SYSTEMS
EXPERTS GROUP (IIEG): Final Report

1. Introduction

Mr. Walter Kulyk, USA, Chair of the Intermodal and ITS Experts Group (IIEG) and the Deputy Chair, Mr. Fei Weijun, from the People's Republic of China, welcomed the delegates at 1:30 pm on August 25, 2008. The attendees included 26 delegates representing 12 economies: Australia; Canada; Indonesia; Japan; Korea; People's Republic of China; Peru; Philippines; Singapore; Chinese Taipei; Thailand; and the United States. A list of participants is attached.

The Chair reiterated the Group's commitment to the four "pillars" supporting its activities. These "pillars" outline the key focus areas for the Group and include Technology (including ITS and Global Navigation Satellite Systems); Supply Chain Management (focused on transportation); Sustainability (including energy and environment); and Human Capacity Development.

2. Ongoing Projects and Activities

Agenda Item 5.1. APEC GNSS Implementation Team (GIT) Activities

JAPAN/UNITED STATES

The USA on behalf of the GNSS Implementation Team (GIT) Co-chairs (Japan and USA) reported on the success of the "GNSS Technological Innovation Summit" and the GIT-12 meeting that were held in Bangkok, Thailand on 26-30 May, 2008. The IIEG Chair and the Group noted the significant GNSS implementation activities and the good work that have been done by the GIT. The IIEG also considered the revised GIT Terms of Reference (TOR) and asked the GIT to consider some additional modifications to strengthen the TOR, and approved the proposed work program. The first bullet point of the TOR for GIT consideration follows:

"Promote integrated Global Navigation Satellite System (GNSS) implementation to provide safety, operational, financial, and environmental benefits to all modes of transportation in the APEC region".

To raise the intermodal participation in the GIT from each economy, the IIEG discussed the possibility of providing more visibility to GNSS implementation activities, given that GNSS applications are across all modes of transportation. This topic will be discussed further at future GIT and plenary meetings.

Agenda Item 6.1.1. ISO TC204 Liaison Update

KOREA

The USA provided a status update of International Organization for Standards (ISO) Technical Committee (TC) 204 activities based on a report submitted by Korea. ISO TC 204 addresses the development of international standards involving intelligent transportation systems (ITS). Korea is the APEC liaison to ISO TC 204. On behalf of Korea, the USA tabled a number of items outlined in the report for discussion by IIEG. After deliberation, the IIEG agreed to support the following items.

- 1) Public Transport Information Data Catalog. This Data Catalog is intended as a framework to allow public transport standards to become more consistent over time. The Chair will intersessionally request selected APEC economies to take the lead and participate in this effort.
- 2) Participation in the 4th ISO TC204/APEC TPT IIEG Joint Workshop. This Joint Workshop will be held in Ottawa, Canada on Nov 12, 2008. Items of discussion will include the development of standards in freight and fleet management, medium to long range air-interface communications, and the ITS Architecture. IIEG members were encouraged to participate in, and contribute to, the Joint Workshop as well as the ITS World Congress which will occur in New York City a few days after the Joint Workshop.
- 3) Participating membership in ISO TC 204. Non or observer members of ISO TC 204 were encouraged to become participating members of this body. It was noted that the new Working Group 17 which addresses Nomadic Devices and the U-City Task Force afford interesting opportunities for new participating members to influence the development of new standards.

Agenda Item 6.1.2. Short Sea Shipping in the APEC Region: Best Practices for Users, Operators, Regulators, and Infrastructure Providers **KOREA**

The USA provided a project update on behalf of Korea. This project is documenting best practices involved in short sea shipping operations and developing a model that can show how an economy can optimize its cargo flow network. A final project report has been completed and will be posted on the TPT-WG website. However, the project will not be officially declared complete until the project lead can provide a final detailed presentation to the IIEG and TPT-WG Plenary including project results, conclusion, and recommendations. This presentation is expected to occur at the next TPT-WG meeting. This project is co-sponsored by Canada.

Agenda Item 6.1.3. Web-Based Atlas of Trade and Transportation Corridors (Global U8 Consortiums) **UNITED STATES**

This project is to establish a web-site to illustrate container trade flows; to identify impediments and barriers in the gateways, hub-ports, and intermodal connectors in each economy; and to analyze the security measures and customs procedures in each gateway port region. The USA, which is the project sponsor, has encountered difficulty in obtaining self funding commitments. As a result the project has not yet started. During the IIEG meeting, China and a representative from the University of Denver's National Center for Intermodal Transportation indicated possible self funding and/or in-kind contribution towards the project, enabling it to proceed. The Chair will request the Lead Shepherd to inform the APEC program director that potential self funding and/or in-kind contributions may be available in the near future. Project co-sponsors include Australia, China, Korea, and the Philippines.

Agenda Item 6.2.1. Management of Security, Safety and Emerging Technology in Global Intermodal Transportation and Supply Chain Systems **VIETNAM**

The project "Management of Security, Safety and Emerging Technology in Global Intermodal Transportation and Supply Chain Systems" (TPT01/2007) was previously approved by the Budget and Management Committee (BMC) of APEC, and Viet Nam has been moving forward with the planning and implementation of the project. The BMC

approved Dr. Patrick Sherry as the sole source consultant to deliver the project. The APEC Secretariat has forwarded the terms of reference which are pending final signature. The project may need to be extended to the end of 2009 in order to deal with the particulars of the arrangements. The project is expected to be delivered during April of 2009 in Ho Chi Minh City. A meeting will be held shortly to begin planning the logistics and venue.

3. New Project Proposals and Emerging Issues

Agenda Item 6.2.2. New Title: Survey of Workforce Development Needs and Development of Train-the-Trainer Seminar on Intermodal & Global Supply Chain Management with a Focus on a Risk Management Approach to Improve Intermodal Logistics Networks INDONESIA & PHILIPPINES

Indonesia and the Philippines, following the guidance of the IIEG from the 30th APEC TPT-WG meeting in Manila, gave a presentation, assisted by the USA, on a joint proposal to combine a survey of workforce development needs with a proposal to conduct a train-the-trainer seminar on intermodal supply chain skills with a module on risk management [Note: This proposal is a combination of agenda items 6.2.2 and 6.2.6.]. This newly proposed project is closely aligned with the human capacity development pillar of the IIEG. The IIEG has been successful in developing human capacity through the use of the Intermodal Skills Seminar in several previous projects, most recently in the seminar on Global Supply Chain to be delivered in Vietnam. The proposed project would identify existing needs for workforce development in APEC member economies and the critical gaps in skills and competencies related to intermodal and intelligent transportation systems. These data would lead to the continued updating of the Intermodal & Global Supply Chain Skills Seminar with the development of a train-the-trainer model program to be delivered in the two sponsoring economies. In addition, the results of the survey of workforce needs would be used further to develop a roadmap for delivery and prioritization of future human capacity building activities. The IIEG approved the project for endorsement and directed it to be moved forward for consideration by the BMC. Indonesia and the Philippines are co-proponents of this project. Co-sponsors include USA and Canada.

Agenda Item 6.2.3. Proposed Research and Analysis on Using More Inland Rivers in Intermodal Transport CHINA

China provided an updated status of a project proposal to conduct research and hold a seminar involving the use of inland waterways as a means to attract more cargo from roads to waterways, reducing congestion and pollution, saving energy, and reducing intermodal transportation costs. The objectives of the project are to compare the different transportation policies and measures involving inland river navigation; to identify the advantages of intermodal transfer for ocean-river and rail-river operations; to propose new policies and measures for promoting inland river transportation; and to conduct an international seminar to discuss results of the research. It was noted that this project facilitates trade by promoting sustainable transport as directed by the Transportation Ministers in their TMM-5 Joint Ministerial Statement. Additionally, it is important to note that the World Bank's contribution to this project has already started. The submission incorporated additional information resulting from the last TPT-WG meeting and from further intersessional input. The IIEG agreed that this project proposal will be re-submitted for APEC approval. Co-sponsors are the USA and Canada.

Agenda Item 6.2.4. Secure and Smart Container Development for Intermodal Transport

CHINA

China presented a newly revised project proposal to conduct research and hold a seminar on the topic of secure and smart container (SSC) development in the container supply chain. Project results will benefit the safety, security, and efficiency of the supply chain. The project will attempt to coordinate the standardization and development of container security technology with ISO TC 104 (Freight Container) and ISO TC 204 (ITS). The objectives of the project are to identify the SSC demand and outline its functions and necessary requirements for the development of standards. The IIEG endorsed this project and agreed that this proposal will be submitted for APEC approval. Co-sponsors of this project are the USA and Canada.

Agenda Item 6.2.5. Study of Land-Based GNSS Application Needs

UNITED STATES

The USA presented an update of a draft proposal (originally presented at the last TPT-WG meeting) for a project to conduct a survey and assessment of current and potential deployment applications of global navigation satellite system (GNSS) technology to meet the needs of surface transportation modes. The new project proposal is to conduct a survey and catalogue the current applications of GNSS within land-based surface transportation to include freight, public transport, and highways. This survey and cataloguing is now being proposed as the first phase of a longer, three-phased effort. If the project is approved and results successfully indicate that further work is warranted, a second phase project proposal will be submitted in the future. Likewise, a third phase project proposal could be submitted if the second phase results are positive. The USA presented this project proposal in the APEC GIT-12 meeting in May, 2008 and received support by the GIT. Matching self-funding is being proposed by the USA. To ensure the success of the project, the IIEG encouraged participation from the Land Experts Group. Project co-sponsors were identified in the IIEG meeting and include the Philippines, Canada, and China. Australia will advise intersessionally on being a co-sponsor. The IIEG endorsed this project proposal and agreed that it will be submitted for APEC approval.

Agenda Item 6.2.6. Study and Best Practices of a Systems-Base Risk Management Approach to Improve Security and Safety in Intermodal Logistics Networks

PHILIPPINES

The Philippines, following the guidance of the IIEG from the 30th APEC TPT-WG meeting in Manila, made a presentation, assisted by the USA, on a joint proposal to combine a survey of workforce development needs with a proposal to conduct a seminar on intermodal supply chain skills with a module on risk management. [Note: This proposal is now combined in Agenda Item 6.2.2].

Agenda Item 6.2.7. Study of Best Practices on Corporate Social Responsibility in Intermodal Transport

PHILIPPINES

The Philippines presented a proposal to conduct a two-day seminar on the topic of best practices of corporate social responsibility in the area of intermodal transportation. The proposed seminar would provide participants with a survey of best practices, an exchange of current views in issues and discussion of possible measures for promoting trade. The IIEG provided suggestions to strengthen the proposal, and the USA expressed support and agreed

to act as a co-sponsor. The Philippines were directed to submit a revised proposal intersessionally for review by the IIEG and subsequent submittal again at the next TPT-WG meeting.

Agenda Item 6.2.8 Proposed Joint Workshop between APEC and International Organization for Standards **UNITED STATES**

The USA outlined the development of a proposed workshop to be held tentatively in April of 2009 involving the American Public Transportation Association, the National Institute for Standards and Technology, and the IIEG. The workshop would address areas of mutual cooperation involving the development of international transit ITS standards. Additional topics would be considered, including transit security. More information will be provided to IIEG members on an intersessional basis.

Agenda Item 6.2.9. IIEG Input to the next Ministerial Meeting **ALL ECONOMIES**

The following language was proposed by the IIEG Group for incorporation to the upcoming ministerial statement.

Possible Theme for TMM6

“Seamless Transportation Systems” through innovation, congestion reduction, enhanced safety and security, energy security and sustainability.

Proposed Language to the Ministerial Statement

This proposal highlights the efforts by the IIEG in addressing the four pillars of its activities and key initiatives in support of goals outlined in directives by the transport ministers. These efforts are in support of the need for a safe, secure, efficient and environmentally sustainable and integrated transportation system relevant to APEC economies.

1. Technology

The development and implementation of selected integrated technologies is important to the successful management and operation of intermodal transportation. These technologies include intelligent transportation systems (ITS) and the global navigation satellite system (GNSS). The need to encourage and adopt applicable international standards addressing these technologies is particularly important across the APEC region.

2. Supply Chain

Seamless interconnectivity of different modes of transportation is important. Such connectivity will ensure the most effective, efficient and secure movement of goods and services while improving the conservation of natural resources and reducing environmental impacts such as the effects of carbon emissions.

3. Energy and Sustainability

TPT-WG will work with the APEC Energy WG to identify opportunities for the development and promotion of fuel efficient transport policies and practices, including the use of alternative transport fuels. Fuel efficient policies and practices will assist APEC economies to achieve sustainable economic and environmental benefits.

4. Human Capital Development

Human capacity skills are important to ensure the development of seamless transportation systems. The ability of the work force to develop, manage and safely implement existing and emerging technologies is essential to the ongoing facilitation of trade in the region.

Key Initiatives

It is imperative to continue key initiatives and activities which advance and improve the development and use of intermodal systems. These include activities addressing the Global Navigation Satellite System (GNSS), encouragement of international standards development through liaison with the International Organization for Standards, work force development training and improved supply chain management processes in an energy and environmentally sustainable way.

Agenda Item 6.2.10: Discussion of New Possible Projects and Activities Related to the Intermodal and ITS Experts Group Pillars of Activities

ALL ECONOMIES

Australia led a discussion on areas where the TPT-WG could work with the Energy WG (EWG) to develop and promote fuel efficient transport policies and practices including the use of alternative transport fuels.

At the TMM5, Transportation Ministers encouraged the TPT-WG to look for opportunities to collaborate in areas such as fuel efficiency and alternative energies. The Energy Ministers at their eighth meeting in May 2007 encouraged the development of policies to promote fuel efficient transport, including the use of alternative transport fuels.

The secretariat of the EWG has invited representatives from the IIEG to attend the next meeting of the EWG. Endorsement is sought from HODs for the Chair of the IIEG and an Australian delegate to the IIEG to attend the next meeting of the EWG in Manila on December 1-5, 2008 to pursue collaboration on areas of common interest.

4. Projects Completed and Results Achieved

Thailand reported the completion of the APEC GNSS Test-Bed Project. The final report was presented to participating APEC economies and accepted at the GIT 12 meeting. The final report will be posted on the APEC TPT-WG website.

5. Linkages to Ministers' and Leaders' Directives

The IIEG reviewed the Lead Shepherd's Table of Progress against TMM5 Directives. Members noted that all IIEG project activities conformed to Ministers' directives on the three broad themes of trade liberalization facilitation, transport safety, and transport security. The Table of Progress was updated and provided to the HOD2 meeting for consideration.

6. Economy Reports

Australia provided an overview of the Australian Government's development of a National Aviation Policy Statement. This statement's aim is to give industry certainty and the incentive to plan and invest in the Australian Aviation Industry for the long term. It will also

give clear commitments to travelers and airport users together with communities affected by aviation activity.

A “White Paper” will be developed by mid 2009 for the Australian Government’s consideration. This paper will identify the key short, medium, and long-term challenges facing the Australian Aviation Industry and what needs to be done to meet these challenges.

Canada gave a presentation on its Asia-Pacific Gateway and Corridor Initiative (APGCI). The APGCI is a national initiative, which brings together strategic infrastructure improvement, 21st Century governance, policy renewal, security enhancement as well as public-private investment and innovation to improve international trade and global commerce between Canada and APEC economies. Canada provided an update on the APGCI infrastructure improvements (latest overall investment is C\$2.4 billion) and presented an overview on security enhancements to support the APGCI. Canada also reported on its on-going activities on international partnerships and relationships building through roundtable forums and visits as well as bilateral memorandum of understanding (MOU) agreements on Gateway Cooperation with many APEC economies, including China, Japan, Korea, U.S., and other Asia-Pacific economies.

China gave a brief overview of a new ITS project addressing standards to ensure the smooth exchange of information and data in transportation systems. Sixteen national standards have been developed and include the specification of data quality. Additional information is available at: <http://www.itshyperstands.cn>.

Japan gave a brief presentation describing an effort designed to investigate the standardization of small size containers. Use of 12ft containers has increased ten-fold between 2003 and 2005. However, container size and specifications are not standardized. At a recent conference held between China, Japan, and Korea a research project was initiated. Japan will keep the IIEG updated on the status of the project.

Korea gave a briefing on the planned implementation of its ITS infrastructure. In addition, Korea described the development of a vehicle device to enable communication with any mode of transport.

Peru provided a written report updating the status of inland waterways as a mode of transportation to the committee.

Philippines gave a brief presentation on the issue of social responsibility as well as an update on its efforts to develop the Strong Republic Nautical Highway (SRNH) system that is devoted to developing a truly integrated intermodal network to connect the many islands in the country and to increase the trade with its neighbors. The use of RO-RO ferry routes has positive impacts on the economy. The SRNH is a truly intermodal highway connecting land and sea using different modes (rail, highway, marine). The Philippines Port Authority plays a crucial role in the development of the nautical highway.

Chinese Taipei provided a briefing on the status of ITS in Chinese Taipei. ITS has been set as a major policy initiative with the goal of improving public transport, road traffic management, and the traveler information system. The ITS system provides real time and dynamic information that allows users to make decisions.

USA provided a report on current initiatives and research projects going on in the US. In an attempt to reduce congestion and increase connectivity, projects such as the Chicago CREATE and the HEARTLAND public private partnerships were described. Also, research projects were described, including improvements for the intermodal transportation system, a computer model simulating traffic flows from an intermodal terminal, and efforts to identify needed workforce skills.

7. HRD Initiatives and Progress

The IIEG discussed and considered various initiatives designed to address the issue of workforce development. The identification of specific skills and competencies that plays a crucial role in the support of a seamless and efficient intermodal transportation system is a key pillar of the IIEG mission and activities. In an effort to continue this activity, the IIEG is recommending for approval by the BMC a project proposal entitled, “Survey of Workforce Development Needs and Delivering a Training Seminar on Safety and Security in Intermodal Global Supply Chain Management Skills”. The IIEG is also sponsoring a workshop under the same broad topic area to be held in Viet Nam later this year.

8. Future Work Program

Agenda Item 7: New Action Plan for the Intermodal and ITS Group ALL ECONOMIES

The Chair gave a presentation on a newly updated Action Plan that is the continued reference for existing and planned activities of the IIEG. The Action Plan is a living document that reflects recent Ministerial and Lead Shepherd directives and discussions from previous TPT-WG meetings. The Action Plan will continue to be updated periodically to reflect the latest guidance, approved and proposed projects, and activities. The latest Action Plan will be posted on the TPT-WG website.

9. Recommendations for TPT WG Consideration

Ongoing Projects

The IIEG requests recognition of the progress of the following projects and activities:

Project/Activity	Lead Economy	Co-Sponsors
Short Sea Shipping (SSS) Study: A Report on Successful SSS Models that can Improve Ports’ Efficiency and Security While Reducing Congestion, Fuel Costs, and Pollution <i>Note: A final report will be considered at TPT-WG32 in July 2009</i>	KOREA	CANADA
Web-Based Atlas of Global Commerce: Transportation Corridors, Infrastructure, and Constraints (WATTS) <i>Note: Project approved by BMC and will proceed as soon as self-funding and in-kind contributions are confirmed</i>	UNITED STATES	AUSTRALIA CANADA CHINA KOREA PHILIPPINES

Seminar on Management of Security, Safety and Emerging Technology in Global Intermodal Transportation and Supply Chain Systems <i>Note: Project will proceed shortly</i>	VIETNAM	CANADA INDONESIA PHILIPPINES UNITED STATES
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Completed Projects

Project/Activity	Lead Economy	Co-Sponsors
Implementation of the APEC GNSS Test Bed	THAILAND	AUSTRALIA INDONESIA MALAYSIA PHILIPPINES CHINESE TAIPEI UNITED STATES VIETNAM

New Projects Ranked for BMC Consideration

The IIEG requests consideration of the new re-submission for APEC approval of the following projects. These projects were viewed as high priority within the IIEG due to the alignment with goals related to facilitating the implementation of an efficient, integrated intermodal and sustainable transportation system.

Rank	Project	Lead Economy	Co-Sponsors
1	Research and Analysis on Using More Inland Rivers in Intermodal Transport <i>Basis: This project has been revised to reflect BMC recent comments and recommendations for resubmission and significant involvement by the World Bank</i>	CHINA	CANADA UNITED STATES
2	Survey of Workforce Development Needs and Development of Train-the-Trainer Seminar on Intermodal & Global Supply Chain Management with a Focus on a Risk Management Approach to Improve Intermodal Logistics Networks <i>Basis: This project builds upon previous success stories of the IIEG involving human capacity building</i>	INDONESIA and PHILIPPINES	UNITED STATES CANADA
3	Study of Land-Based GNSS Application Needs <i>Basis: Project addresses broad land-based intermodal technology applications and has been revised to reflect a reduced scope and budget</i>	USA	PHILIPPINES CANADA CHINA

4	Secure and Smart Container Development for Intermodal Transport <i>Basis: Project has been revised several times by the IIEG to reflect improved emphasis on security and efficiency in the supply chain</i>	CHINA	CANADA USA
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New Project to be Considered – Future TPT-WG Meetings

Project	Lead Economy	Co-Sponsors
Study of Best Practices on Corporate Social Responsibility	PHILIPPINES	USA

TPT-WG/Energy WG Collaboration

The TPT-WG supports the Chair of the IIEG and the Australian delegate to the IIEG accepting the invitation from the Energy WG Secretariat to attend the next meeting of the Energy WG meeting in Manila on 1-5 December, 2008 to pursue collaboration on areas of common interest, including the use of alternative fuels.

Attachment

**List of Participants
Meeting of *Intermodal and ITS Experts Group*
TPT-WG31, Lima, Peru**

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