

Asia Pacific Economic Cooperation Promoting GNSS Applications



***Briefing to the International
Committee on GNSS***



Karen Van Dyke
U.S. Dept. of Transportation
Research and Innovative Technology Administration

December 10, 2008



APEC Members



APEC has 21 members referred to as **Member Economies**.

The term Member Economies is used because the APEC cooperative process is predominantly concerned with trade and economic issues, with members engaging with one another as economic entities.



APEC Members



Australia
Brunei Darussalam
Canada
Chile
People's Republic of China
Hong Kong, China

Indonesia
Japan
Republic of Korea
Malaysia
Mexico
New Zealand

Papua New Guinea
Peru
Republic of the Philippines
The Russian Federation
Singapore
Chinese Taipei

Thailand
United States
Viet Nam



APEC Statements Related to Transportation and GNSS



20th APEC Ministerial Statement

- “...recognized the importance of improved mobility and economic prosperity through more secure and efficient transportation systems”

5th APEC Transportation Ministerial Statement

- “...encourage[d] member economies to continue reduction of business transaction costs through greater transport efficiency.”

U.S. Delegation to Senior Officials meeting 2008 noted that:

- “application of Space Technology, such as Global Navigation Satellite Systems (GNSS), could help improve energy efficiency...”



2008 Priorities of APEC Transportation Ministers



- Recognize transport as a key enabler of trade and greater regional economic integration;
- Ensure that our transportation processes and regulatory frameworks evolve in a way which does not impede economic efficiency and growth;
- Respond to new and emerging transport security, safety and environmental challenges;
- Address the need for appropriately skilled and trained people to support transport growth and development;



2008 Priorities (Cont.)



- Take concerted action to address transport security across all transport modes by recognizing the vulnerabilities of our increasingly networked transportation system
- Identify opportunities to collaborate widely with other relevant international organizations
- Increase the priority placed on road safety



APEC GNSS Implementation Team (GIT)



- Goal is to promote implementation of regional GNSS augmentation systems to enhance inter-modal transportation and recommend actions to be considered in the Asia Pacific Region
- Reports to the Transportation Working Group through the Intermodal Experts Group



APEC GNSS Innovation Summit and GIT/12 Meeting



- Thailand with the support of AEROTHAI hosted a GNSS Technological Innovation Summit in May 2008
- Completed the successful \$1 million GNSS test bed project, located in Bangkok and funded by the TDA and supported by the FAA
- Updated the Terms of Reference to take account environmental benefits
- Achieved consensus on a project proposal to survey and assess current applications for surface transportation utilizing GNSS
- Adopted a Program of Action



Areas for Cooperation



Inter-Modal
Applications

Maritime Safety

Aviation

Road Safety and
Transit





APEC Transportation (TPT) Outcome



- The GNSS Implementation Team reported to the Intermodal Experts Group (IEG) in August 2008
- The IEG was impressed with the GNSS Technological Innovation Summit and the GIT/12 Outcomes and forwarded project proposal to APEC
- GIT contributed to the deliberations in all four working groups (Intermodal, Maritime Safety, Maritime Experts and Aviation)
- Interest expressed in learning more about GNSS in the Plenary and in the maritime safety group at the next APEC Transportation Working Group



Challenges



- Need for greater involvement of agencies and industry in APEC deliberations concerning GNSS technologies and implementation
- Need to identify areas where project proposals could enhance the drive for greater GNSS interoperability and compatibility
- Looking for ideas for areas of cooperation in all transportation modes to achieve seamless transportation systems
- Seeking opportunities to use GNSS technology to increase energy efficiency, reduce congestion and enhance infrastructure



Summary



- The APEC forum provides an excellent opportunity to interact with Asia Pacific economies on GNSS
- U.S. is actively engaged on space-based navigation applications in all modes of transportation
- U.S. is seeking opportunities to promote GNSS technology to increase energy efficiency, reduce congestion and improve infrastructure development in the Asia Pacific region