



SPACE-BASED POSITIONING
NAVIGATION & TIMING
NATIONAL COORDINATION OFFICE



Asia Pacific Economic Cooperation Promoting (APEC) Promoting Global Navigation Satellite Systems (GNSS) Applications

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to the
National Coordination Office**



Why APEC?



2007 APEC Sydney Declaration agreed that “ ... promoting open, efficient, transparent and flexible economies is vital to:

- continuing economic growth and
- the building of a strong and sustainable future for our Asia-Pacific community.”

5th APEC Transportation Ministerial Statement

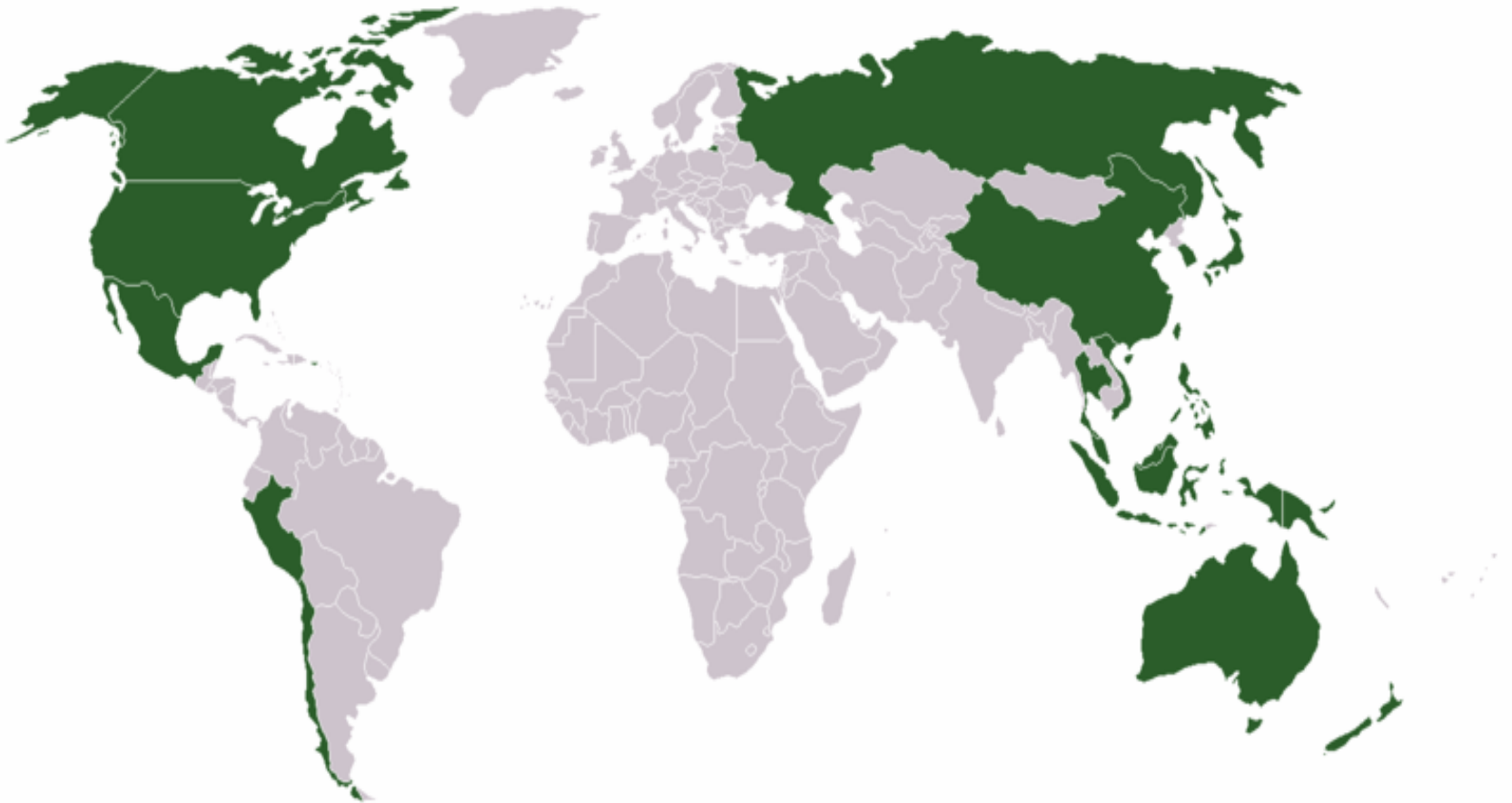
- “ ...encourage[d] member economies to continue reduction of business transaction costs through greater transport efficiency.”

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

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



Who is in APEC?





APEC GNSS Implementation Team (GIT)



- **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 Transportation Working Group (TPT-WG) through the Inter-modal Experts Group (IEG)**



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; and**
- **Increase the priority placed on road safety.**



Areas for Cooperation



Inter-modal

Maritime Experts

Maritime Safety

Aviation





APEC GIT Outcome



Karen Van Dyke (DOT/RITA) elected co-chair of the GNSS Implementation Team joining Hiroshi Inoguchi of Japan



APEC GNSS Outcome (Cont.)



- Thailand with the support of AEROTHAI hosted a GNSS Technological Innovation Summit in May
- Completed the successful \$1 million GNSS test bed project, located in Bangkok and funded by the Trade and Development Administration 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



APEC TPT Outcome (Cont.)



- **The GNSS Implementation Team reported to the Inter-modal Experts Group.**
- **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 (Inter-modal, 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 U.S. agencies and U.S. 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**



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BACKUP SLIDES



Who is in APEC?



- 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's **21** Member Economies are: 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; The Republic of the Philippines; The Russian Federation; Singapore; Chinese Taipei; Thailand; United States of America; Viet Nam



Minister of Transport, Thailand, Sarati Prompat
President of Aerothai, Dr. Priti Hettrakul
Regional Director, ICAO, Mr. Moktar Awan
Co-chairs, APEC GIT Hiroshi Inoguchi and Karen Van
Dyke



GNSS Technological Innovation Summit, Bangkok, May 2008