



**Asia-Pacific
Economic Cooperation**

**Advancing
Free Trade for Asia-Pacific
Prosperity**

GNSS Implementation Team (GIT) Update

23 April, 2018 – TPTWG 45, Seoul, Korea

Presented by
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Outline



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- APEC GNSS Implementation Team (GIT/22) Summary
- Draft GIT Strategy for 2017 – 2022
- Next GIT Meeting (GIT/23)

APEC GNSS Implementation Team (GIT/22) Summary 1/3



- Eight APEC Economies, namely China, Japan, Republic of Korea, New Zealand, Russia, Chinese Taipei, Thailand, and the United States participated in GIT/22 meeting. Papua New Guinea is unable to attend, and provides an economy report.
- The GIT/22 included industry participation from Lockheed Martin, Raytheon, Inmarsat to incorporate the views of the private sector.
- Presentations covered the GIT project
 - Regional GNSS Receiver Autonomous Integrity Monitoring (RAIM) Prediction System (Thailand).
 - Joint Multi-GNSS Demonstration for ground transportation applications in the Asia Pacific region, dismissed and a new concept note in the area of SBAS could be proposed in the next GIT meeting. (Japan)

APEC GNSS Implementation Team (GIT/22) Summary 2/3



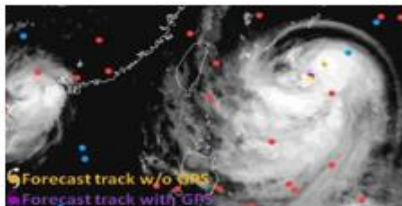
- Sharing Best Practices on GNSS-based Tools and Applications for Road Accidents Emergency Response, will be further discussed for potential consideration at a future GIT meeting. (Russia)
- Enhancing Aviation Connectivity and Emissions Reduction via Implementation of Performance-Based Navigation (PBN) Assistance Program. (AEG)
 - Project completed and reports can be downloaded from APEC Web site.
 - The first project was concluded in 2013 with Malaysia and the Philippines. Since that time, both economies have significantly improved their ICAO implement rates of PBN. Malaysia, increasing from 28.6% to 71.4%, and The Philippines, increasing from 26.7% to 53.3%.
- Presentations also included
 - An update on the APEC GIT website (<http://www.apecgit.org>), hosted by Korea.
 - Economy reports on GNSS implementation, including update on GNSS constellations (GPS, GLONASS, BeiDou, QZSS, KASS, GAGAN), and GNSS applications in air, maritime, and land transportation are presented.

APEC GNSS Implementation Team (GIT/22) Summary 3/3



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- Special session on GNSS Technology and Applications
 - TPTWG Work Plan on 2017 and directed by APEC Leaders.
 - Joint meeting with AEG-SAF and IIEG to promote GNSS and its support on supply chain growth in TPTWG/44.
 - Discuss possible cooperation on topics of weather aviation, maritime and AIS on air quality management, cross border cold chain logistics, connected autonomous vehicles and unmanned aircraft system, fleet management, and Internet of things.



Draft GIT Strategy for 2017 – 2022



- As discussed at GIT/21, it was agreed to update the GIT Strategy to reflect priorities from 9th Transportation Ministerial Meeting related to the safety, security, and resilience of GNSS.
- Updated version of the GIT strategy includes
 - Economic benefit analysis of GNSS and augmentation systems.
 - Increasing the resiliency of GNSS through adoption of best practices for receiver implementation and mitigation of threats to GNSS.
 - Evaluation of expansion of SBAS capabilities for all modes of transportation and other applications, in particular those within APEC regions that do not currently have SBAS capability.
 - Focus on use of GNSS in conjunction with other navigation and sensor technologies for unmanned applications for various modes of transportation.

Next GIT Meeting (GIT/23) ^{1/2}



- GIT focuses on GNSS applications on all modes of transportation, and Transportation Ministers (TMM10) recognize the importance of GNSS and welcome the various initiatives undertaken in all modes of transport in collaboration with GIT.
- In TPTWG Strategic Plan 2018-2021, GNSS plays important role in KPIs to achieve objectives on (1) enhancing accessible, safe, secure, and sustainable transport, (2) improving Aviation and Maritime transport systems, (3) uptaking of technology development.
- GIT considers that it is more beneficial to APEC TPTWG by holding meeting in conjunction with TPTWG meeting.

Next GIT Meeting (GIT/23) 2/2



- Originally, the next GIT meeting (GIT/23) is planned to be held in conjunction with TPTWG/45.
- After discussion with Mr. Thomas Kwan, it would be challenge for IIEG to put GIT/23 agenda into IIEG in actual one day meeting.
- Therefore, GIT decides that GIT/23 meeting will not be taken place in this TPTWG/45.
- GIT likes to express our willing to have our next meeting, GIT/23, to be taken place in TPTWG/46, which is planned to be held on this October in Lima, Peru.
- GIT would like to have support from IIEG.

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