



29th APEC TRANSPORTATION WORKING GROUP MEETING

**Taipei, Chinese Taipei
9 - 13 July 2007**

**INTERMODAL AND INTELLIGENT TRANSPORT SYSTEMS GROUP
(IEG)**

**Progress on the Implementation of
the APEC GNSS Test Bed**

Background

To advance the progress of Global Navigation Satellite System (GNSS) implementation in the APEC region, United States Trade and Development Agency (USTDA) supported a grant of \$675,000 to establish the APEC GNSS Test Bed. The project is a part of the Terms of Reference and Work Program of the APEC GNSS Implementation Team (APEC GIT). The purposes of the test bed project are to provide an operational demonstration of GNSS to participating economies and to analyze empirical GNSS data that influences GNSS air navigation performance. In July 2004, AEROTHAI signed the Grantee agreement with the USTDA during the APEC Transport Ministerial Meeting in Bali, Indonesia. Seven Asia-Pacific countries, namely, Australia, Chinese Taipei, Indonesia, Malaysia, the Philippines, Thailand, and Vietnam, are participating in this project.

Strategic Objectives

The APEC GNSS Test Bed program has five strategic objectives as followings:

- To evaluate GNSS augmentation capability in the Asia-Pacific region
- To collect empirical GNSS data and to analyze equatorial atmospheric effects on GNSS performance
- To allow participating Economies to attain hands on working experiences with GNSS equipment
- To allow participating Economies to refine and validate GNSS performance over their FIRs.
- To establish a stage for regional research collaborations for the Asia-Pacific

These five strategic objectives influence the design of the work program of the Test Bed, its system architecture, the methodologies for data analysis and data archival, and the roles and responsibilities of participating economies.

Current Progress

The APEC GNSS Test Bed has been commissioned since August 2006. Currently, the test bed is collecting Global Positioning System (GPS) related data and the system performance is being analyzed. Flight tests will be conducted in August and September 2007. The final report will be distributed to participating economies in October 2007.

