



International Committee on
Global Navigation Satellite Systems

United Nations/Latvia Workshop on the Applications of Global Navigation Satellite Systems

Organised jointly by
**The United Nations Office for Outer Space Affairs and the
Latvian Geospatial Information Agency on behalf of the Government of Latvia**

Co-organized by
**The European Space Agency and the
International Committee on Global Navigation Satellite Systems**

Hosted by
The Latvian Geospatial Information Agency

Riga, Latvia

14 – 18 May 2012

PROGRAMME-AT-A-GLANCE

Thematic Sessions

Session 1: Current and planned global and regional navigation satellite systems and satellite-based augmentation systems

- Programme updates-GNSS: Global Positioning System (GPS), GLObal NAVigation Satellite System (GLONASS), European Satellite Navigation System (GALILEO), COMPASS/BeiDou Navigation Satellite Systems (CNSS), Indian Regional Navigation System (IRNSS), Quasi-Zenith Satellite System (QZSS)
- GNSS space-based augmentation systems: Wide-Area Augmentation System (WAAS), System of Differential Correction and Monitoring (SDCM), the European Geostationary Navigation Overlay Service (EGNOS), GPS Aided Geo-Augmented Navigation (GAGAN), the Multi-functional Transport Satellite Satellite-based Augmentation System (MSAS)

Session 2: Initiatives/experiences in GNSS user applications: Case studies and opportunities for collaboration

- New capabilities in efficiency and safety across all modes of transportation: aviation, maritime, rail and highway
- Applications in surveying and mapping, geodesy, science and timing, environment, agriculture, and remote sensing with GNSS and integrated sensors
- Observation of space weather phenomena through the deployment of ground-based world-wide instrument arrays such as GPS receivers, magnetometers, solar telescopes, very low frequency (VLF) monitors, solar particle detectors, and data analysis and the sharing of recorded data

Session 3: GNSS reference station networks and services

- Regional and national reference frames/systems implementation
- International GNSS Service (IGS) and other initiatives, multi-GNSS environment

Session 4: Capacity building, training and education in the field of GNSS

- Education and training programmes
- GNSS education tools

Discussion Sessions

- Issues, concerns and approaches for pilot projects/initiatives, requirements of implementing, mechanisms and resources of implementing
- Possible follow-up projects and initiatives and proposals for future workshops/training courses