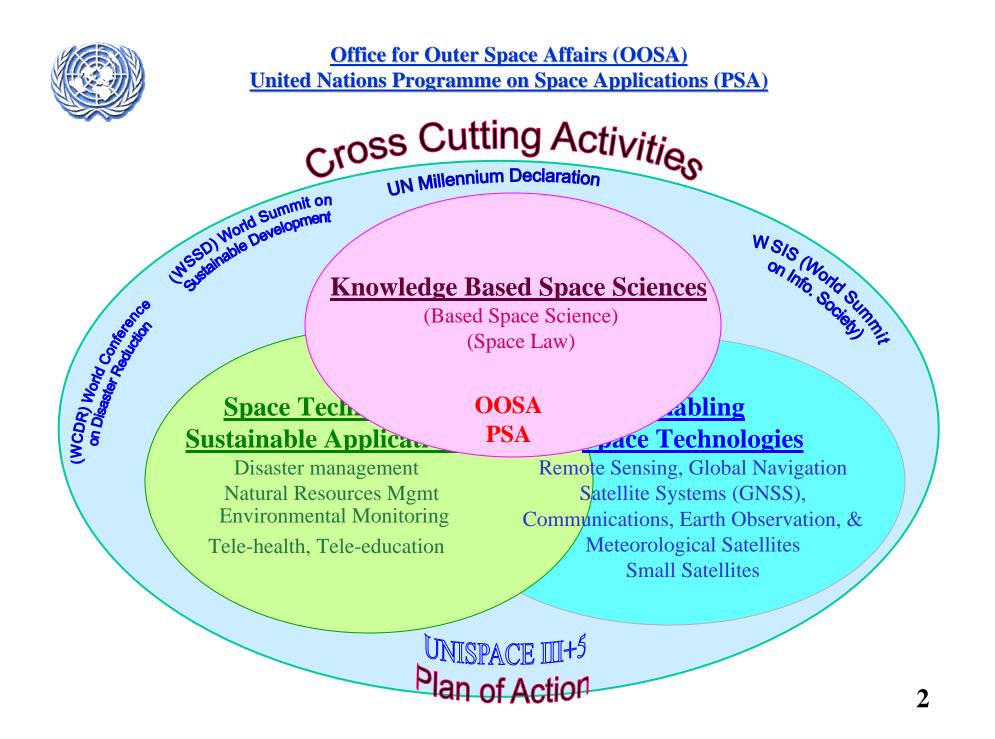
## United Nations/Zambia/ESA Regional Workshop on the Applications of Global Navigation Satellite System Technologies in Sub-Saharan Africa

Lusaka, Zambia, 26–30 June 2006



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# Programme on Space Applications Activity Summary

# A. Training for capacity-building in developing countries:

- Workshops, training courses, expert meetings and symposiums
  - In 2005, 12 activities were conducted
  - In 2006, 10 activities are planned
- Affiliated regional centres continue to provide long term postgraduate courses
- Mid term and short term training courses
- Fellowship programme
  - UN/Italy Long-Term Fellowship Programme on Global Navigation Satellite Systems (GNSS) and Related Applications

**B. Disseminating and increasing the awareness of knowledge-based themes** - Basic space science: Explore possible ways for sustainable development -Space Law: Build capacity, UN Treaties and Principles on Outer Space

<u>C. Providing technical advisory services and promoting regional cooperation</u> -Asia-Pacific Satellite Communications Council -Space Conference of the Americas



- D. <u>Promoting the use of and access to space-based technology &</u> <u>information</u>
  - Disaster management and International Charter "Space and Major Disasters"
  - Data sharing: Distribution and use of available global Landsat data sets for sustainable development in Africa
  - Regional Task Forces: for disaster management, tele-health
  - Pilot projects for sustainable development
  - Satellite-Aided Search and Rescue For Distress Situations
  - Satellite communications applications: Tele-health, tele-education
  - Global Navigation Satellite Systems (GNSS)





# BACKGROUND

#### 1999: Plan of Action of OOSA, following UNISPACE III

• Training module on capacity-building in the use of global positioning and navigation systems in various areas of applications

 2001-2004: Series of UN/USA Regional Workshops and International Meeting of Experts on the Use and Applications of GNSS

- August 2001, Kuala Lumpur, Malaysia, for Asia and the Pacific;
- November 2001, Vienna, Austria, for Central and Eastern Europe;
- April 2002, Santiago de Chile, for Latin America and the Caribbean;
- July 2002, Lusaka, Zambia, for Africa and Western Asia;
- November 2002, Vienna, Austria, International Meeting
- December 2003, Vienna, Austria, International Workshop
- December 2004, Vienna, Austria, International Meeting





## **2004 International Meeting**

The objectives of this International Meeting were:

• Part one:

(1) Review progress made in implementing the recommendations of the International Meetings, 2002-2004 in Vienna;

(2) Review any follow-up initiatives and actions resulting from the series of UN/USA Regional Workshops on GNSS;

(3) Review specific recommendations of the Action Team on GNSS and possible ways and means to implement them in 2005 and beyond; and

(4) Review status of follow-up projects and potential ways and means to carry them forward in 2005 and beyond;

• Part two:

• Develop further the draft terms of reference for the establishment of an ICG







Results from the International Meeting 2004 (A/AC.105/846)

#### Part one:

- Carried forward recommendations of the Action Team on GNSS
- Reviewed and updated status of 21 follow-up projects/initiatives

#### Part Two:

- Further developed terms of reference for the ICG
- Recommended sponsorship of regional workshops and other types of activities to fulfill the objectives of ICG







Follow – up projects/initiatives contained in UN document (A/AC.105/846)

- Survey and mapping
- Agriculture and management of natural resources
- Management of environment and natural disasters
- Transportation
- Education and Training





#### **OOSA 2005 SUPPORT FOR GNSS ACTIVITIES**

 Support to the regional on-going long-term projects to establish or further develop regional reference frameworks:

- SIRGAS, Geocentric Reference System for the Americas
- EUPOS, European Position Determination System
- AFREF, African Reference Frame
- Master's level GNSS course (with Politechnico di Torino)
- Promotion of integration of lectures and field work on GNSS in education curriculum and activities of the regional centres
  - Seminar on GNSS: Current status and future developments, CRECTEALC, Brazil campus, August 2005
  - Colombian International Workshop on the Use and Applications of GNSS, Colombia, September 2005
- UN International Meeting for Establishment of the ICG, December 2005







**International Committee on GNSS (ICG)** 

- It's directed towards developing nations where there's a knowledge gap about GNSS and what they can gain from it
  - As "a group of groups" to encourage the compatibility and interoperability among the GNSS systems,

#### While...

- Increasing their use to support sustainable development, particularly in the developing countries
- ICG information portal
  - To provide information about the GNSS related activities of ICG members/observers, GNSS applications, training, and the development of regional reference systems
  - http://www.unoosa.org







### **Contact Address**

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