

# MATTERS ARISING FROM THE UN-SPIDER TECHNICAL ADVISORY MISSION TO NIGERIA

Godstime James  
UN-SPIDER Regional Support Office in Nigeria

United Nations International Conference on  
Space-based Technologies for Disaster Risk Management  
“Best Practices for Risk Reduction and Rapid Response Mapping”  
Organised by the United Nations Office for Outer Space Affairs (UNOOSA)  
Beijing, China - 22 – 25 November 2011



# BACKGROUND

➤ Nigeria like any other country is prone to Natural and Anthropogenic disasters.

➤ Prevalent types of Disasters are:

- Drought,
- Desertification,
- Flooding,
- Epidemics,
- Coastal erosion,
- Dam failure,
- Building collapse,
- Oil spillage,
- Maritime collision or accident,
- Bomb explosion,
- Communal clash,
- Fire,
- Air crashes and boat mishap,
- Landslides.



# BACKGROUND

- The Nigerian Government through the National Emergency Management Agency (NEMA) (UN-SPIDER NFP) invited the UN-SPIDER to conduct TAM in the Country.
- Assessment of existing institutional capacities regarding access to and use of space-based information in all phases of the disaster management cycle.
- Propose recommendations on how Government Agencies in Nigeria can improve their capacities to access and make use of space-based technologies for Disaster Management in the country.



# Technical Advisory Mission

Mission was conducted from 13-17 June 2011 in Abuja

The mission team consisted of the following experts:  
David Stevens, Jörg Szarzynski, Michael Leitgab (UN-SPIDER);

Isi Ikhuoria, Seyi Fabiyi, Gabriel Yusuf (RECTAS)

Ishiaku Muhammed (WMO, UNCT Nigeria)

Alhassan Nuhu and Justine uwazuruonye (NEMA/UN-SPIDER NFP)

Godstime James (NASRDA/UN-SPIDER RSO)



# DAY 1: Institutional Visits







# DAY 2: Technical Workshop

## Stakeholders Workshop

- Stakeholders in the field of Disaster Management.
- Presentation on Mandates and the role of Space Technology in Operations.
- Administration of Questionnaire:
  - Mission/Mandate;
  - Competency in RS/GIS;
  - Access to data;
  - Provision of data;
  - Contributions to Disaster Management Cycle;
  - Funding;
  - Financial resources;
  - Interactions with other institutions;
  - Expectations towards UN-SPIDER and its network partners.





# DAY 3: Review of Disaster Response

- Rain between the 1<sup>st</sup> and 11<sup>th</sup> of September 2010, resulted in the flooding of some northern states in Nigeria.
- 50 villages were affected,
- 130,000 were displaced,
- 48 persons were reportedly killed.
- The charter was activated on the 11<sup>th</sup> of September 2010 at about 11pm.





# DAY 4: Institutional Visits

- Office of the Surveyor General of the Federation.
- Nigeria Meteorological Agency (NIMET).
- National Oil Spill Detection and Response Agency (NOSDRA).
- Farming Early Warning System Network (FEWSNET).
- Federal Fire Service.
- Nigeria Hydrological Services Agency.



# DAY 5: DEBRIEFING





# MAJOR FINDINGS

- Nigeria has reliable access to space-based information-Launched Satellites.
- A well articulated disaster risk reduction and management plan exists.
- Several institutions exist in the country for man-power development in the use of space technology.
- Optimum use of space based information for disaster management is limited by inadequate capacity.
- Institutional cooperation during disaster management is not strong enough.



# Follow-Up Activities

- Increase awareness of decision-makers through special events.
- Map existing capacities and opportunities and define capacity-building needs.
- Develop clear data policy regarding NigeriaSat-2 – Ensure access to DRM activities in Nigeria and globally.
- Ensure the complete implementation of the National Geospatial Data Infrastructure (NGDI).
- Establish cooperating partnerships including South-South cooperation.
- Develop MOUs with neighboring countries for COSPAS-SARSAT and play pro-active role at regional forums.
- Identify areas for hotspot mapping and leverage on existing opportunities (SAFER).



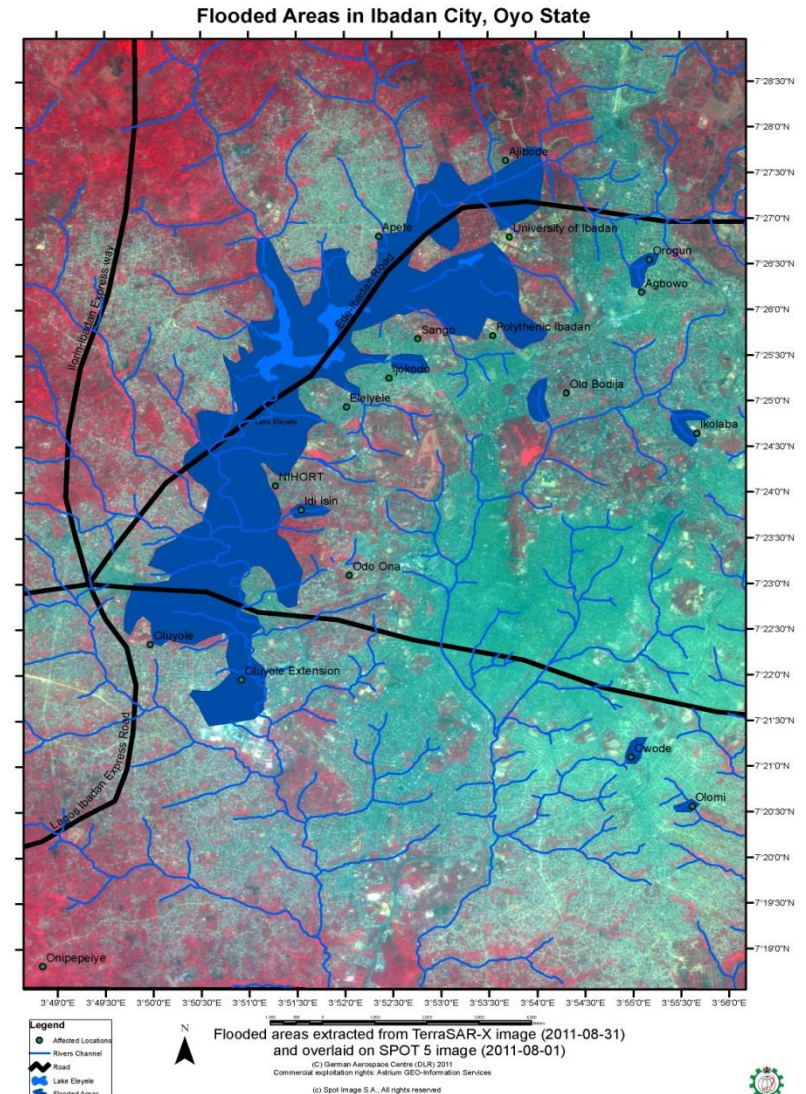
# RESPONSE TO FLOOD IN IBADAN

- On Friday 26<sup>th</sup> of August 2011 torrential rain resulted in severe flooding in Ibadan, Oyo State capital in south western Nigeria .
- Nigerian Red Cross report that about:
  - ✓ 30 people died in the disaster
  - ✓ 2000 people affected
  - ✓ 50 Houses were submerged,
  - ✓ 2 Collapsed buildings, collapse of bridges, farm lands washed away, collapse of Eleyele Dam,
  - ✓ pollution of underground water



# RESPONSE TO FLOOD IN IBADAN

- NEMA activated the International Charter Space and Major Disaster on the 29<sup>th</sup> of August 2011. (Charter Call 370 ).
- A project manager was appointed from the NASRDA to process the images that were received.
- Data supplied by the Charter
  - ✓ TerraSAR – 2011/08/31
  - ✓ RadarSat – 1 & 2 - 2003/12/28 and 2011/08/31
  - ✓ Spot Image – 2011/08/01 and 2011/07/19
  - ✓ Envisat - 2005/01/04, 2009/09/02, 2010/06/09, 2010/05/21 and 2010/09/22.
- Images were processed and results sent to NEMA.





# Thank You

[godstimej@gmail.com](mailto:godstimej@gmail.com)