

Sustaining the Activities of the UN-SPIDER Regional Support Office in Nigeria

By

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Presentation Scope

- Introduction.
- National Space Research and Development Agency, Nigeria.
- Sustainability of the Activities of RSO in Nigeria.
- UN-SPIDER RSO in Nigeria.
- Conclusion.

INTRODUCTION

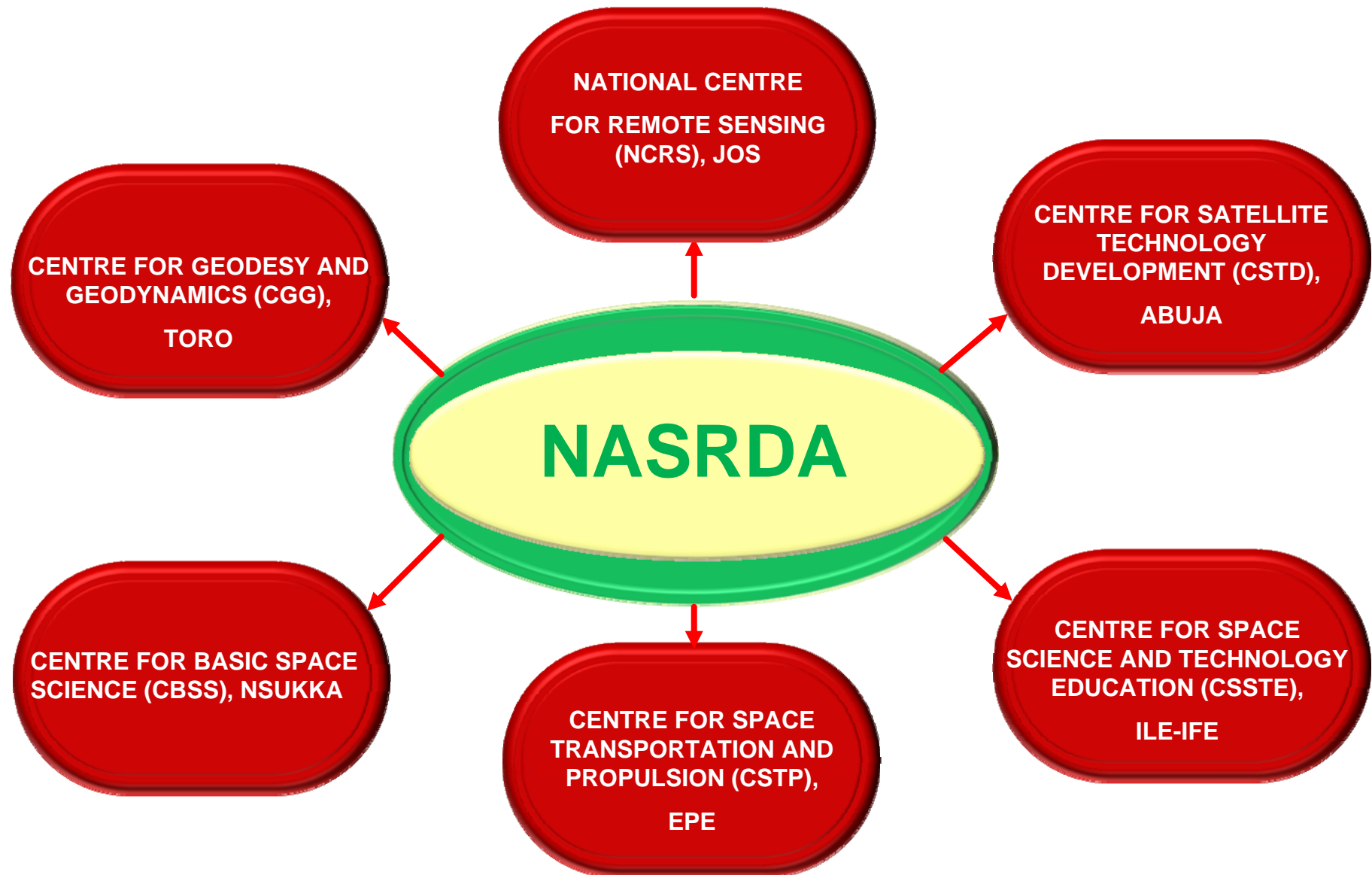
- The UN-SPIDER regional support offices constitute one of the organizational frameworks for the implementation of UN-SPIDER activities.
- One of the reasons for adopting regional organizational framework is to harness regional strengths in space based disaster management and emergency response.
- According to the guidelines, a UN-SPIDER regional support office can only be set up within an existing entity (i.e. an existing organization) by a Member State or group of Member States that has put forward an offer to set it up.
- Such a Member State or group of Member States must be willing to fund the proposed regional support office.
- In addition, the Member State or group of Member States is expected to provide office space, infrastructure and at least one expert, to be the coordinator of the regional support office.

NATIONAL SPACE RESEARCH AND DEVELOPMENT AGENCY, NIGERIA

In 1999 the National Space Research and Development Agency (NASRDA) was established.

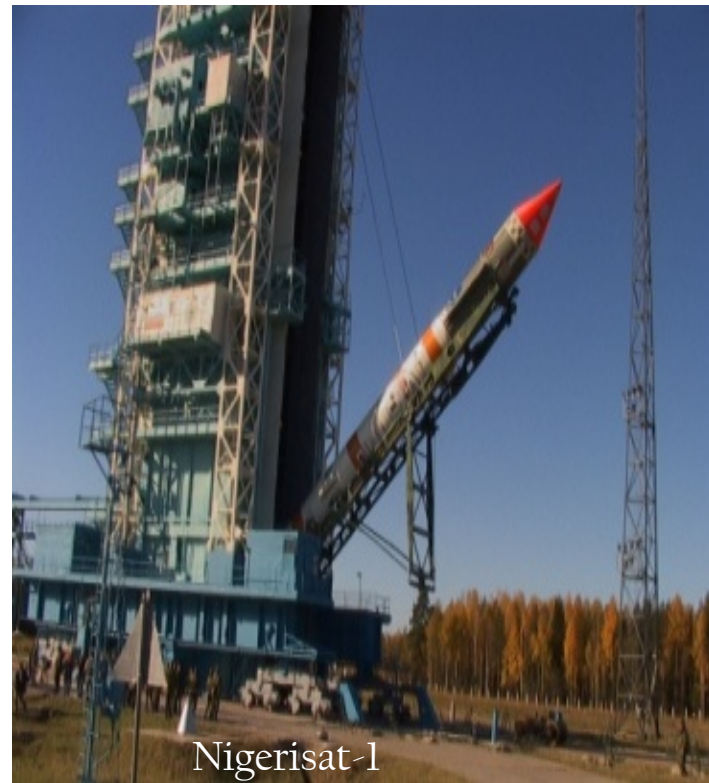


NASRDA OPERATIONAL CENTERS OF EXCELLENCE



NIGERIASAT-1 SATELLITE

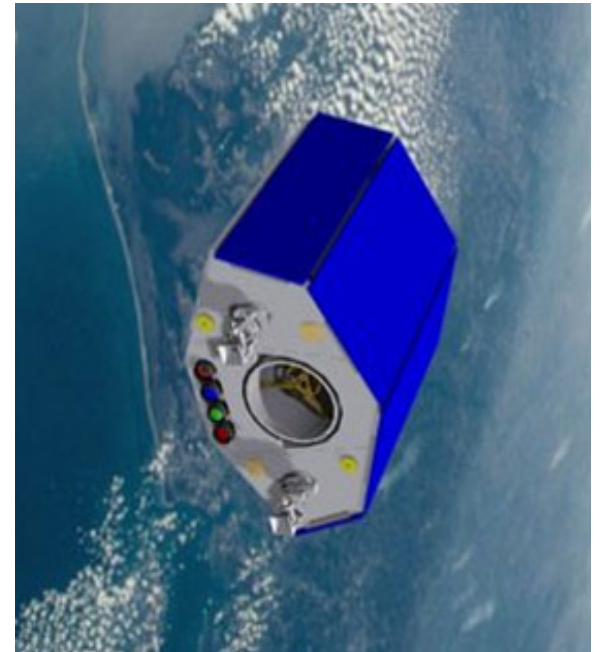
On 26th September 2003 Nigeria launched its first medium resolution (32m) earth observation satellite NigeriaSat-1 in Plestek, Russia.



NIGERIASAT-2 SATELLITE

Physical Configuration

- NigeriaSat-2 is an Earth-Observation Satellite.
- 2.5m panchromatic (very high resolution).
- 5m Multi spectral (High resolution) NIR, RED, GREEN & BLUE.
- 32m Multi spectral (medium resolution).
- 20 x 20 km (2.5 and 5.0 GSD) and 300x300 km (32 GSD)
- NIR,RED,GREEN&BLUE.
- 7.2m Dish.
- Design life span 7years.
- To be launched on 29 October 2010.



NIGERIASAT-X SATELLITE

Physical Configuration

- NigeriaSat-2 Training Model – Built to Flight Specification.
- To be launched with Nigeriasat-2.
- Being Built by Nigerian Engineers.
- 22m multi-spectral (RGB, NIR) imagery.
- Max swath 600km @ 8bits.
- High rate X-band downlink set to 20MBps.
- Low rate S-Band 8MBps.
- 2 x 2Gbyte data recorders.



Ground Receiving Station

UN-SPIDER RSO IN NIGERIA

- The UN-SPIDER RSO in Nigeria (RSO) is domiciled in the National Space Research and Development Agency (NASRDA), Abuja, Nigeria.
- The RSO in Nigeria was established in 2008 through an understanding between NASRDA (Nigeria) and the United Nations' Office for Outer Space Affairs (UNOOSA), Vienna.
- On the 4th of June 2009, during the 52nd Session of the Committee on the Peaceful Uses of Outer Space (COPUOS), the United Nations Office for Outer Space Affairs signed cooperation agreements to establish UN-SPIDER regional support offices in Nigeria, the Islamic Republic of Iran, Romania, and the Asian Disaster Reduction Center.
- A dedicated office has been created for hosting the RSO in Nigeria.
- The office is fully automated with programme a Manager and 3 supporting staffs.

SUSTAINABILITY OF THE ACTIVITIES OF RSO IN NIGERIA

- Funding.
- Prioritization of Activities.
- Phase Implementation of Activities.
- Participation in In-House Programmes (e.g. Capacity Development Activities).
- Use of Existing Infrastructures.
- Collaboration with relevant Agencies.
- Staff.

ACTIVITIES OF RSO IN NIGERIA 2008-2009

Work plan approved by the UN General Assembly for the biennium 2008-2009 include the following activities (A/AC.105/929):

1. Creation of awareness

- ECOWAS disaster risk reduction working group organized by the ECOWAS commission in Abuja from March 18th to 19th 2009.
- 7th African Association of Remote Sensing of the Environment (AARSE) in Accra Ghana 27th to 31st of October 2008.



ACTIVITIES OF RSO IN NIGERIA 2008-2009

2. Outreach Activities.

- Development of MOU with ECOWAS.
- Participation in UN-SPIDER workshops and Meetings.
- Participation in NASRDA/NEMA West African Regional Workshop on UN-SPIDER and the Role of the International Charter in Disaster Management.
- Participation in the International Charter: Space and Major Disasters Authorised User Training.
- Signing of MOU with UNOOSA.



ACTIVITIES OF RSO IN NIGERIA 2008-2009

3. Support to National Activities

- Encouraged West African countries to signify interest in establishing NFP in their country:
 - Nigeria
 - Ghana
 - Togo
 - Senegal

ACTIVITIES OF RSO IN NIGERIA 2008-2009

4. Support for the Establishment of National Disaster Management Planning and Policies

➤ Technical Advisory Mission to Togo



ACTIVITIES OF RSO IN NIGERIA 2010

A/AC.105/937 - United Nations Platform for Space-based Information for Disaster Management and Emergency Response - (UN-SPIDER): Work Plan for the biennium 2010-2011 :

1. Raising of Awareness

- RSO will receive digital files of UN-SPIDER awareness-raising material such as: Newsletters, Leaflets and Bookmarks;
 - Include the activities of the RSO in Nigeria, print them, and distribute them at meetings and venues attended in the capacity of the RSO.
 - Activities of the RSO will also be included in the final print.

ACTIVITIES OF RSO IN NIGERIA 2010

2. Outreach Activities

- Participation in UN-SPIDER meetings in Vienna on 9-12 February 2010, and 9-11 June 2010 parallel to the Scientific and Technical Subcommittee of COPUOS.
- Participation in regional workshops such: Regional Workshop "Building Upon Regional Space-based Solutions for Disaster Management and Emergency Response for Africa, Addis Ababa, Ethiopia, 6 - 9 July 2010.
- Fourth United Nations International UN-SPIDER Bonn Workshop on Disaster Management and Space Technology: "The 4C – Challenge: Communication – Coordination – Cooperation – Capacity Development". Bonn, Germany, 12 – 14 October 2010.

ACTIVITIES OF RSO IN NIGERIA 2010

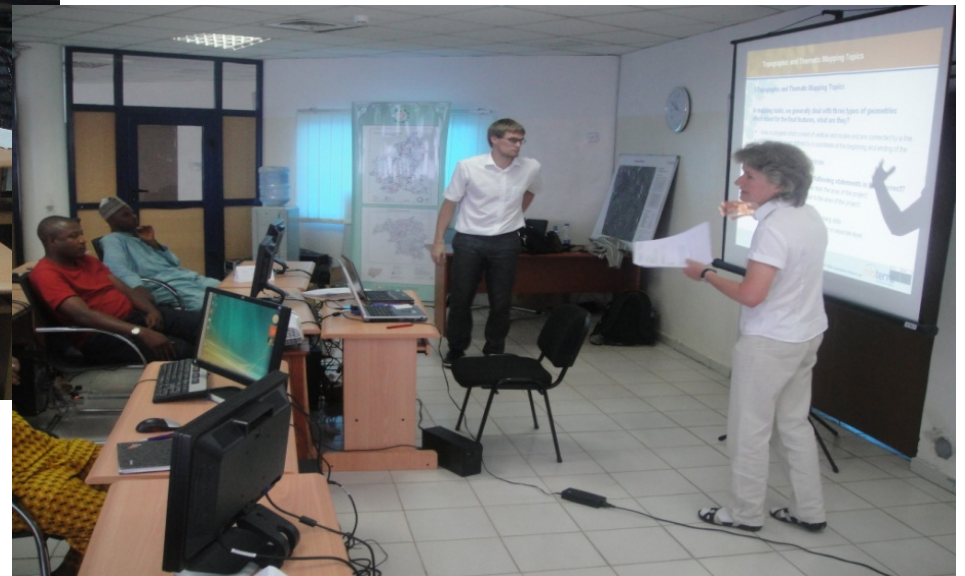
3. Capacity Development

- Participated in Project Management Training Course for International Charter: Space and Major Disasters in collaboration with the Nigerian National Emergency Management Agency ; Facilitated by DMCii and USGS. 9th -11th February 2010.
- Participated in Mock Activation Exercise for International Charter: Space and Major Disasters. 19th May 2010.

ACTIVITIES OF RSO IN NIGERIA 2010

3. Capacity Development

- Participated in SARTriX High and Medium Resolution TerraSAR-X Imagery Analysis Course from June 7-18, 2010; Facilitated by Terra SAR X Services and Infoterra (An EADS Astrium Company).



ACTIVITIES OF RSO IN NIGERIA 2010

4. Platform for Ensuring Cooperation

- Collaborate with the Nigerian National Emergency Management Agency (NEMA) during disaster response activities in Nigeria.

5. Knowledge Management and Transfer

- RSO is currently compiling relevant disaster management information from the West African region with emphasis on Case Studies.

6. Knowledge Portal

- Integration of RSO and UN-SPIDER Websites.

ACTIVITIES OF RSO IN NIGERIA 2010

7. Country Profiles

- Compilation of Country Profiles from countries within the ECOWAS region.
- UN-SPIDER will share the list of National Focal Points in the region with the RSO.

8. Support at the National Level

9. Support and participate in technical advisory missions to countries within the region contributing to the definition of plans and policies with regard to the use of space-based technologies.

CONCLUSION

- Space-Based Approach to Disaster Management remains a sustainable approach to disaster management and emergency response.
- Within the short time of establishing the UN-SPIDER programme, a lot has been achieved.
- Funding remains a major challenge to the Activities of the Regional Support Office in Nigeria.
- Given the sustainable strategies that have been employed so far, it is obvious that the RSO in Nigeria has come to stay.

Thank you