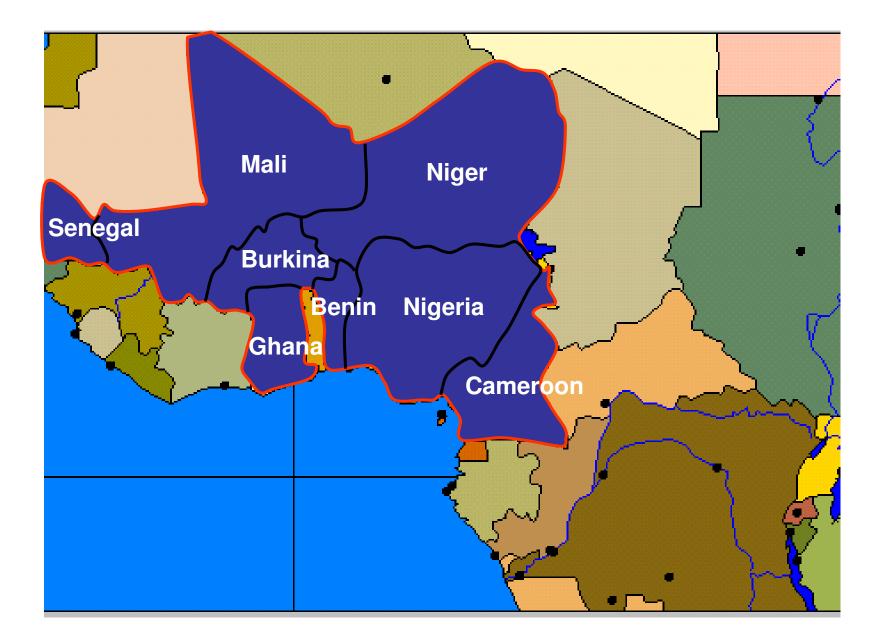


RECTAS www.rectas.org

RECTAS: Capacity Building in Space Technology and Geospatial Data Applications

Isi A. Ikhuoria

Executive Director, RECTAS, Ile-Ife, Nigeria *e-mail: edrectas@rectas.org* +234 803 373 2799



Vision

To be a leading *Centre of Excellence* providing one-stop solution for quality geospatial science training, education and research and critical capacity for sustainable development in Africa.

Mission

To contribute to rapid development of member states in particular and Africa in general, through capacity building for timely delivery and responsible use of appropriate geospatial information.

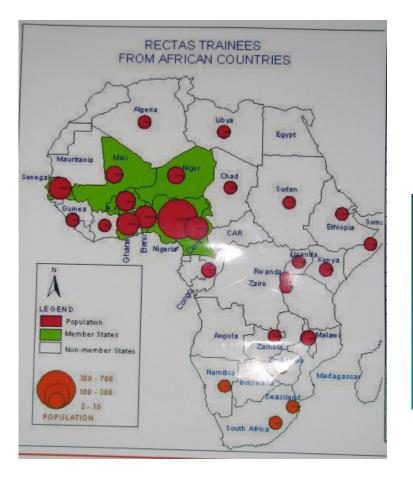
Objectives:

- provide theoretical & practical training in Geoinformatics and applications.
- conduct seminars and courses
- carry out studies and research
- provide advisory and consultancy services

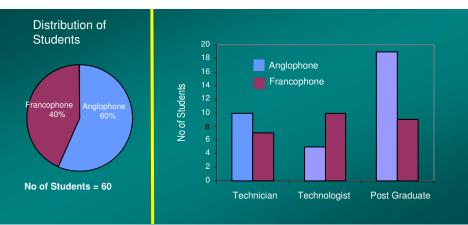
Academic Departments

- (i) Photogrammetry & Remote Sensing (PRS)
 - (ii) Geographic Information Systems (GIS)
- (iii) Cartography (CAR).

Evolution of Critical Capacity Training at RECTAS



Produced 1,522 trainees from 28 countries (1973-2010)



Students enrolment at RECTAS

Strategy 1

Produce high grade experts in Geoinformatics application



Strategy 2 Enhance capacity & capability for research

$$P = \sum_{i=1}^{n} (R_i D_i)$$

$$P = R^{e^{5.66}} + D^{e^{3.51}} - C^{e^{9.05}}$$
where:
$$P = \text{estimated population}$$

$$R = \text{net residential area}$$

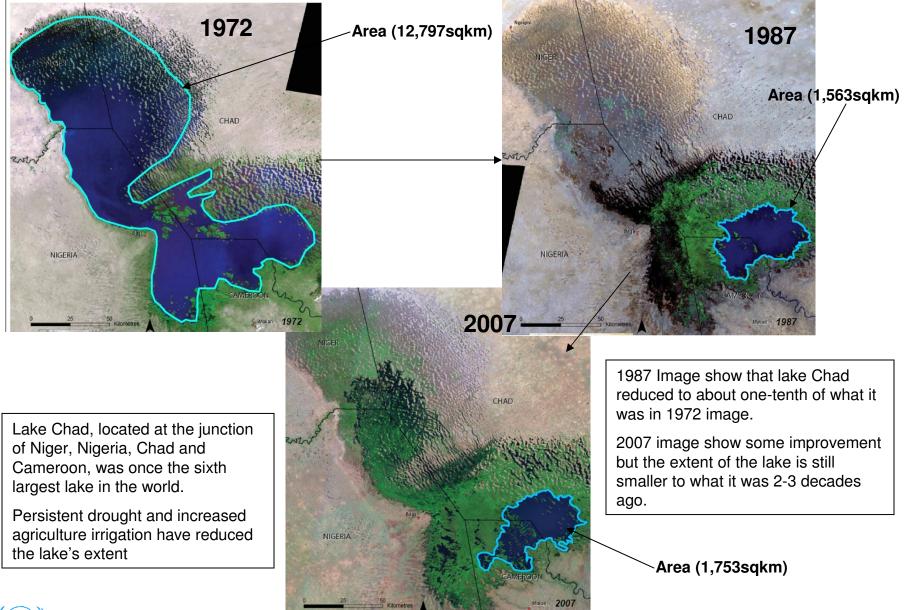
$$D = \text{population density}$$

$$C = \text{constant}$$



Urban Growth, Climate change, food security, disaster mgt

Declining Water Levels in Lake Chad, 1972-2007

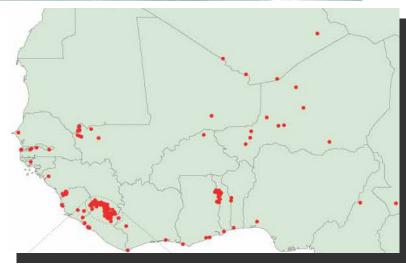




Effects of conflicts...





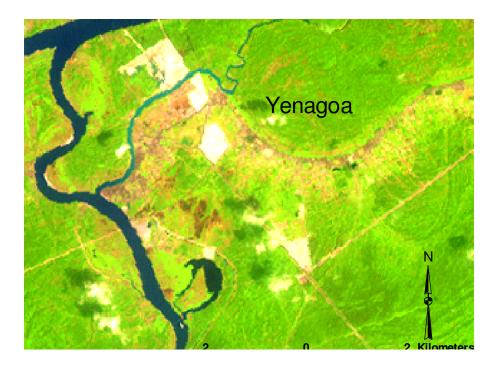


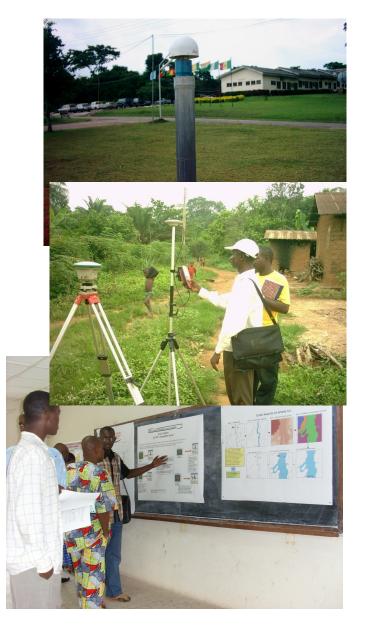




Strategy 3

Equip graduates with capability to apply GI technologies.





Programmes

- (i) Geoinformation production & Mgt.
- Technical Diploma 18 months
- Technological Diploma 18 months
- Postgraduate Diploma 12 months
 (ii) MSc Geoinformation Science

• MSc - Geoinformation Science

Specialisations:

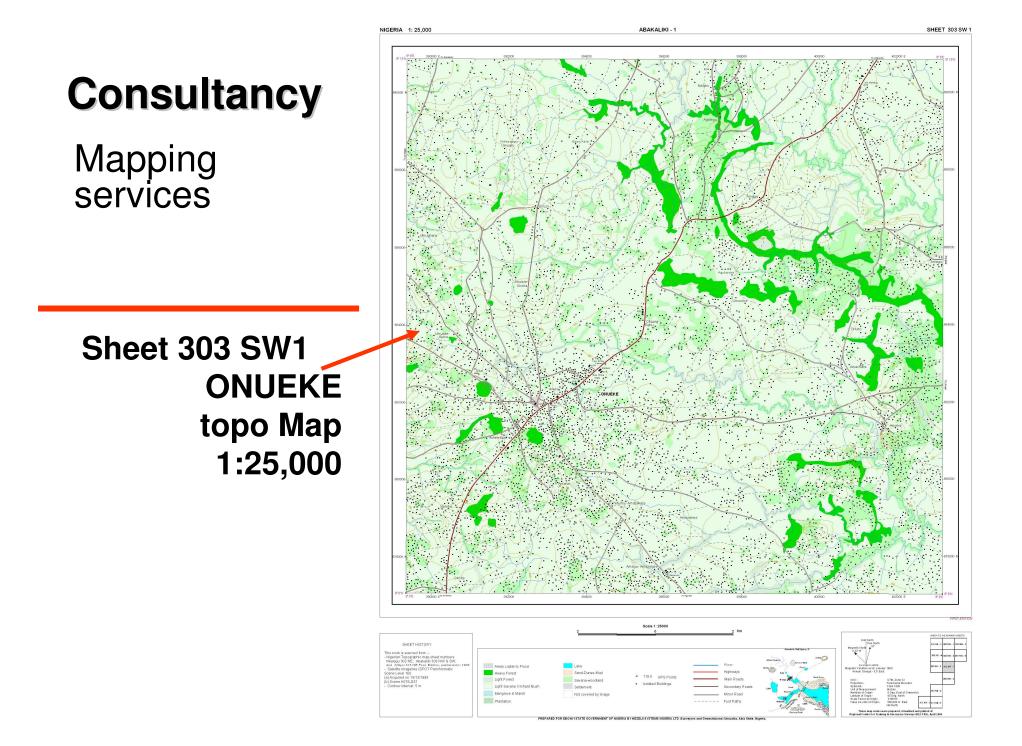
- Disaster Management
- Environmental Mgt
- Land Resource Mgt
- Natural Resource Development
- Hydrology & Water Resource Mgt
- Meteorology & Climate Change
- Soil analysis & Agricultural Mgt
- Health & Social Development

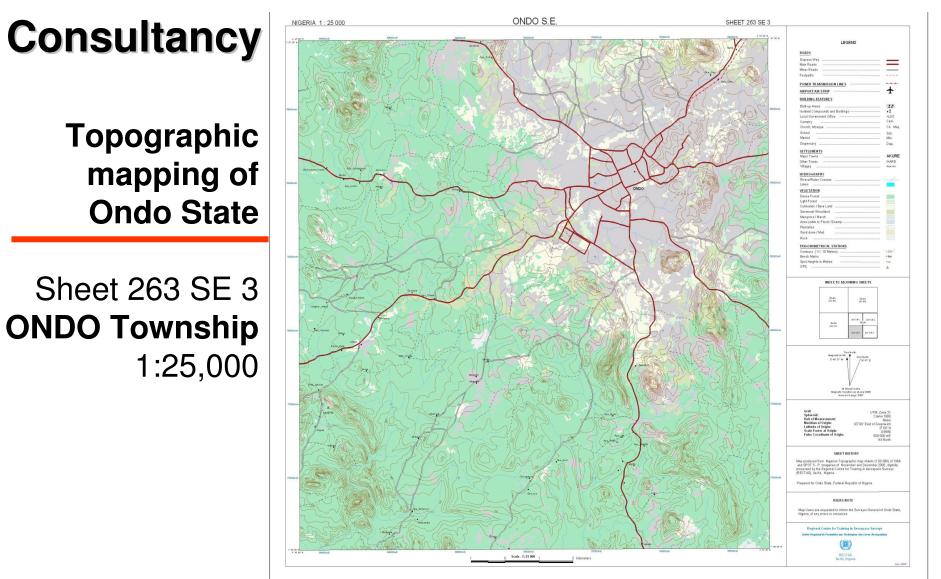
Accreditation:

- CAMES (Francophone)
- NUC MOU with FUTA (Anglophone)

Consultancy & Advisory Services: *Short Courses*:

- Modular courses (3 weeks)
- Customised (1-4 weeks)
- Seminars & Workshops
- Projects (mapping, EIA, etc)
- Advisory missions (UN-SPIDER)







Consultancy:

provision of Satellite images, digital photos, etc.

> Quickbird image of Akure



Short courses:

- RS/GIS applications military operations
- RS/GIS applications in geology/mineral resources exploration (Mines & Steel Dev.)
- Space-based appl. in Disaster Mgt (NEMA)
- GIS-Day seminar (11 Dec. 2008)
- AFREF workshop (2-5 Aug. 2009)
- AFREF workshop (9-11 Feb. 2010)
- GIS Workshop (June, 2010) for OSGOF

Advisory:

- GI application missions
- RS/GIS lab installations
- software licence
- instruments maintenance, etc.
 Examples are:
- ✓ Installation of GIS laboratory in Univ.

✓ UN-SPIDER missions:

(Lome - 2009; Dakar - Dec, 2009; Cameroon, ?)

Training Cost

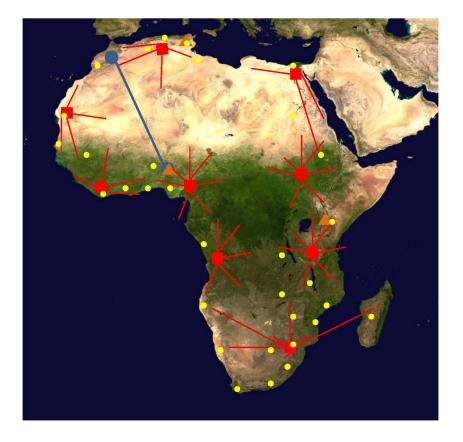
- Regular Programmes
 - \$4,500 per student

Tuition\$552Hostel\$2,482Stipend\$828Others\$638

RECTAS Fellowship to Trainees of member countries

- Short Course:
 - -\$150 for 3 weeks
- Customised Course:
 - \$50 per day

Prospects: Int. & regional networks & partnerships for capacity building, research & GI applications.



Expertise:

- Research,
- Capacity building,
- International institutions
 UN-SPIDER
- UN-SPIDER
- RCMRD, GSDI, GMES
- GARNET-E, IAEA-FGN,
- CODIST, AFREF, etc.

