

Capacity Building and Data Democracy

Working Group

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**Presentation to the 2nd WGCapD Meeting
Frascati, Italy – Mar 4-6, 2013**



1st meeting of WGCapD - Ilhabela, Brazil, 29 February to March 02, 2012

16 participants: INPE, NOAA, CONAE, CMA, DLR, ISRO, ESA, SANSA, GEO Sec, Secure World Foundation, USGS, CEOS CEO

6 virtual attendees: NASA, UNOOSA and WMO



2nd WGCapD Meeting - Frascati, Italy - Mar 4-6, 2013



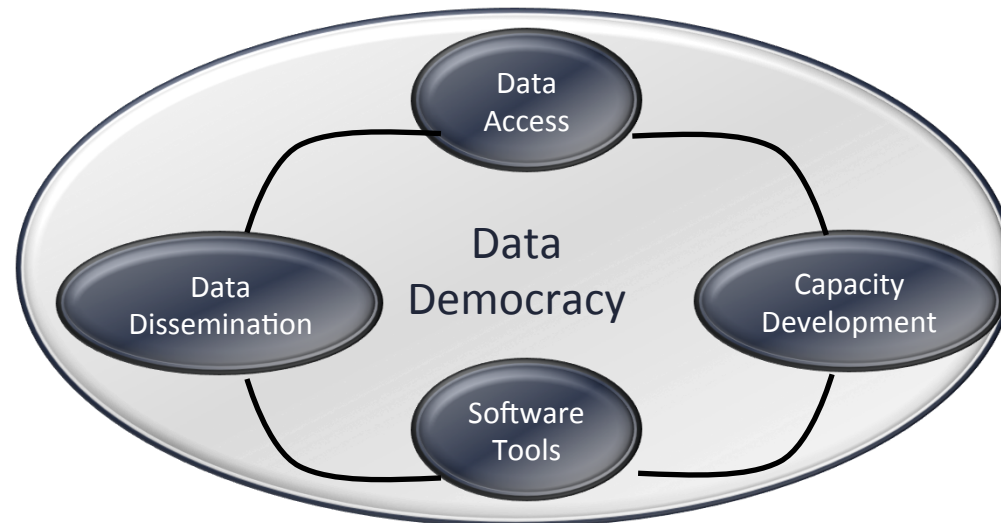
Engagement of other CEOS Agencies

- CNES (1)
- CONAE (4)
- **CRECTEALC-Mexico (2)**
- CSA (1)
- DLR (1)
- ESA (2)
- GEO (2)
- INPE (5)
- **IRD (2)**
- ISRO (2)
- NASA (7)
- **NASRDA (1)**
- NOAA (2)
- NSMC,CMA (2)
- **RCMRD (2)**
- SANSA (3)
- **SERVIR (2)**
- SWF (1)
- UNESCO (1)
- UNOOSA (3)
- USGS (1)
- **World Bank (1)**
- WMO (1)
- CEOS SEO (1)
- CEOS CEO (1)



Data democracy explored

WGCapD is focused on building capacity for the effective use of EO data as well as providing wider and easier access to those data



- ❖ Illustrated through the exploration of the WGCapD activities



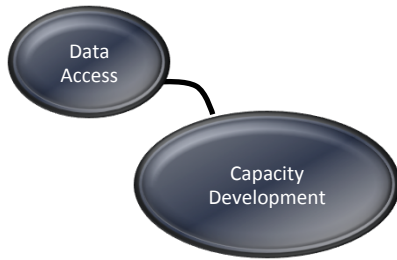
Updated WGCapD 3-year objective:

Improved access to global DEM developed on a country-by-country basis

Development of a remote-sensing E-learning course

Support to GEO 2012 – 2015 Work Plan Task ID-02

Continued support to GEONETCast, including an event at the GEO Plenary (“GEONETCast Americas User Forum”)



Capacity development: DEM workshops

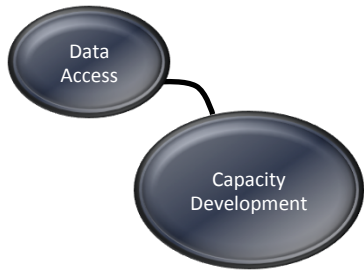
Regional workshops across the world utilizing the SRTM 2 data

Train participants on how to utilize the data in capacity building workshops

Focus of workshops will be on flash flood forecasting and settlement planning

First workshop planned in Nairobi, Kenya, 2013

Maximize the skillsets and contributions of a range of partners: RCMRD, INPE, SANSA, NOAA, NASA/SERVIR, USGS, Secure World Foundation



International e-learning course on Introduction to Remote Sensing Technology for Educators

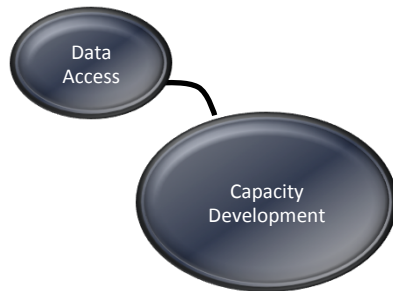
180 hour courses that target university professors in the sciences to teach them the benefits of incorporating EO into their classes

Use of data sets that are normally restricted

Taught by consortium of CEOS agencies and partners

Professional Development Certificate

Coordinated by INPE, Brazil



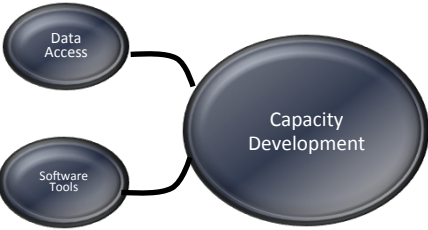
International e-learning course on Introduction to Remote Sensing Technology for Educators

First Pilot course: 18 Feb - 10 June, 2013

4 modules:

1. Introduction, History and International Support
 2. Principles of Remote Sensing, Sensors and Platforms
 3. Data and Tools
 4. Remote Sensing Applications
- + Project development

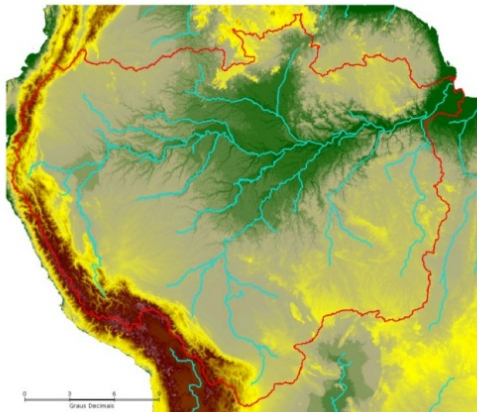
Target Region: Africa (English speaking countries) – Nigeria, Kenya and South Africa



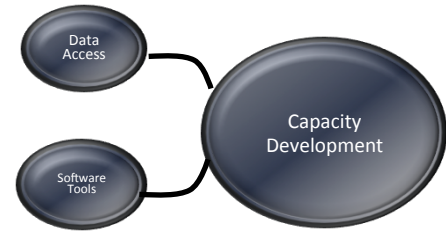
Software Tools: Open Source software

TerraHydro – Example
Basin and Drainage (SRTM)

Red: Basin delimitation
Blue: drainage of main Rivers, extracted
from accumulation area



- Regional DEM Development Workshops
 - Train on open source software tools (TerraHidro and TerraMA2)



Software Tools: Open Source software



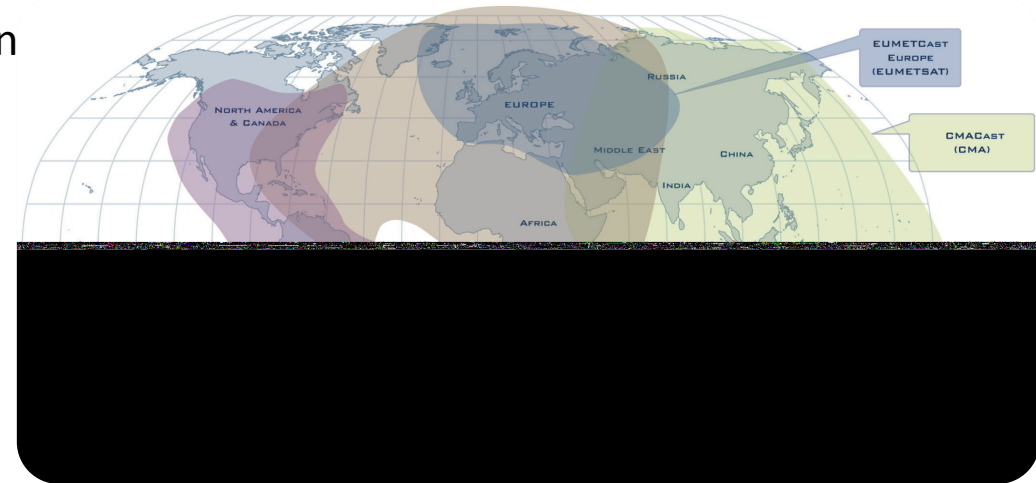
E-learning Courses

- SPRING
- TerraView
- ORFEU Tool box
- SOPI



Data dissemination: GEONETCast

- GEONETCast is a low cost satellite-based data and product dissemination system
- WGCapD support of GNC
 - GEONETCast Americas Forum
 - GEO Plenary side event
 - Focus on the end users
 - Synergies, issues, improvements
 - DEM Development Project
 - Work with regional GEONETCast provider to ensure that appropriate agencies have ability to receive and transmit data as necessary





Overarching Strategy

Minimizing the chance of duplicating current capacity building efforts within GEO and helping to establish synergies and determine possible gaps.

→ Synergies with GEO – ID02 Task – Developing Institutional and Individual Capacity

Outreach Strategy

Updating CEOS website

Training Calendar

Mailing Lists (try to have WGCapD accomplishments listed in magazines, newsletters etc.)



Spreading the word about the WGCapD

- ❑ Getting help from other WGs
- ❑ Connecting with GEONetCab Project
 - ❑ Connecting with Portal for EO Resources
- ❑ Connecting with WMO/CGMS Virtual Laboratory (VLab) for Education and Training in Satellite Meteorology
- ❑ GEONetCast



Spreading the word

Jacob:

1. International Astronautical Congress (IAC) (Oct 1-5 - Naples, Italy)
2. United Nations/Chile Workshop on Space Technology Applications for Socio-Economic Benefits (12 - 16 November, 2012, Santiago, Chile)
3. 3rd African Water Cycle Coordination Initiative (AfWCCI) Workshop (Feb 4-5 - El Jadida, Morocco)

Hilcéa:

1. GEO Workplan Symposium (Apr 30- May 4– Geneva, Switzerland)
2. 6th Meeting of Vlab Management Group – VLMG-6 (8-11 October, 2012, São José dos Campos, Brazil)
3. GEONETCast Americas / EUMETCast Americas Users Forum (November 21, 2012, Foz do Iguaçu, Brazil)
4. GEO IX Plenary (20-21 November, 2012, Foz do Iguaçu, Brazil)



**Let's discuss in this meeting new project ideas for
2013!**

Thanks!