

19-21 JUNE 2017, HELSINKI

# EUROPEAN GEO WORKSHOP

EuroGEOSS: Shaping  
the European contribution  
to GEOSS

<http://europa.eu/!Wq67yk>

#EGW2017



FINNISH  
METEOROLOGICAL  
INSTITUTE



# Andiswa Mlisa, GEO Secretariat

## GEO Capacity Building





## GEO Strategic Plan 2016 – 2025: Implementing GEOS core function:

*Cultivating awareness, **building capacity** and promoting innovation*

Building capacity, as well as sustaining and enhancing existing capacity, is essential for **developing competencies in the effective use of Earth observations** for responding to societal challenges and addressing sustainable development issues.

- promote the engagement of institutional users worldwide;
- **assist countries to acquire, share, store, maintain, and utilize EO data;**
- engage with the international development and donor organizations;
- work with the appropriate national entities to develop activities; and
- promote cooperation through national and regional GEO mechanisms.



# GEO Strategic Plan 2016-2025 - Implementation

- **CB Foundational Task** to **coordinate** and work with all to design and implement the best ways to conduct and promote capacity building;
  - Need to look beyond projects – maintain built capacity and established cooperation;
  - Funding tends to be finished (or not include) before impact assessment of activities has been done;
  - Build institutional capacity through value proposition that survives political and democratic processes;
- CB to be present in all **implementation** mechanisms, especially in initiatives and flagships i.e. in the 2017 – 2019 **Work Programme**;
  - Focus of CB to be broaden, not exclusive on developing countries;
  - CB has to be feasible for developing countries considering language and culture;
  - Promote collaboration between developed and developing countries ... use the GEO Regional Initiatives;



# Building on Previous Efforts

- training courses and information dissemination workshops on use of EO for various SBAs,
- coordinated open access to data;
- development of open source software and processing tools;
- installation and maintenance of in-situ and data receiving instruments;
- impact assessment guidelines of EO activities;
- Marketing toolkits, success stories and best practices;
- Introduction and support on use of GCI, GEO DAB and GEOSS Portal;
- development of a capacity building resource facility (GEOCab Portal), and
- Contribution of data registries and tools to the GEOSS.

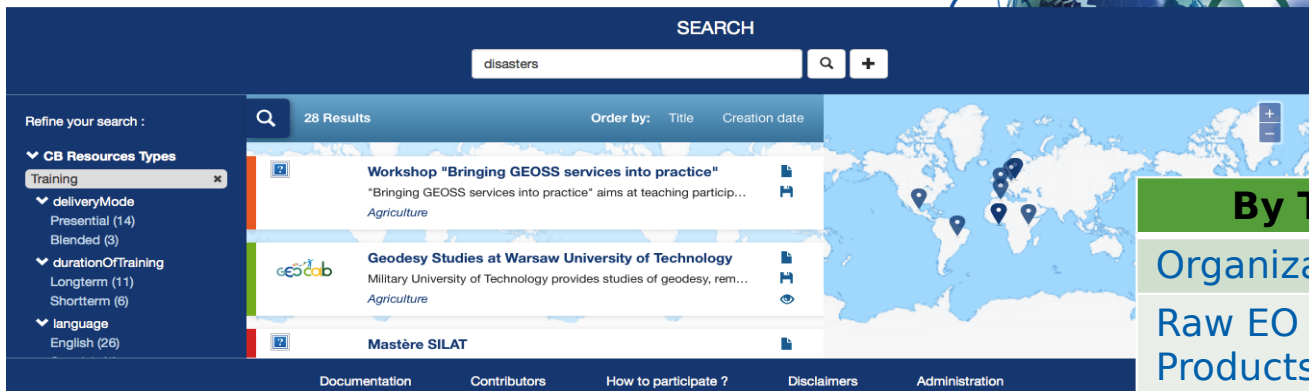






**GeoCaB**  
Earth Observation Capacity Building Portal

<http://www.geocab.org/>



- ❖ Over 1500 **Resources** (any element - human, organizational, infrastructure, methodological, technical, promotion, best practise) of interest that can help the development of knowledge in the field of EO)

- ❖ Discoverable through GEOSS Portal



By Type	By SBA
Organizations	Biodiversity
Raw EO Products	Climate
Software	Disaster
Success Stories	Ecosystem
Tutorial	Water
Marketing Tool Kits	Weather
Training Material	Energy
	Health
	Agriculture

# Capacity Building Coordination FT

With following actions, implemented through a Task Team:

- Baseline assessment of capacity building in GEO and annual review of activities (inform database of resource providers, ongoing programmes and activities);
- Periodic review and update of the resource facility - the GEOCAB Portal;
- Collation and periodic review of capacity building needs;
- Develop and maintain calendar of capacity building events;
- Undertake brokering activities – match needs with capabilities;
- Collate and promote best practices and guidelines;

# Coordinating Capacity Building Activities

	<b>GIVE - Task Team</b>	<b>ASK - YOU</b>
<b>Promote</b>	showcasing events	show-up
	GEO Capacity Building profile	provide information on activities: slides, brochures, articles etc.
	capacity building web page	
	calendar of events	
	feature in GEO Blog	
	GEO Secretariat thematic presentations	
	products, tools and material in GEOCAB Portal	
<b>Connect</b>	provide platform for making connections - Capacity Building Forum; side event at GEO meetings e.g. Plenary;	show-up
	regional initiatives i.e. AfriGEOSS, AmeriGEOSS, AOGEOSS, Himalayan GEOSS ...	provide geographic specific information
<b>Support</b>	provide best practices	lodge interest with CBC WG
	capture needs and requirements	articulate needs
	provide brokering services (needs with ...)	open to engage with ...



# Capacity Building in GEO WP 2017 - 2019

... Request for Capacity Building section in the Template for Flagship and Initiative Implementation Plans

Description of activities (4 pages)

- Tasks definition, overall logic and phasing
- Geographical scope
- Tasks description (for each of them: description, planning, partners responsibilities, resources)
- **Capacity building/science & technology/training activities; communication/outreach/branding**
- Expected connections to other areas of the GEO Work Programme

*GEO 2017-2019 Work Programme Application*








# Capacity Building in GEO WP 2017 - 2019

First level analysis....

GEO Flagships	4	3
GEO Initiatives	22	16
Community Activities	33	15
Foundational Tasks	10	3
<b>TOTAL</b>	<b>69</b>	<b>37</b>




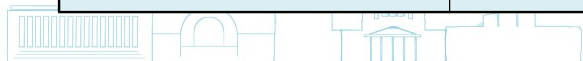
## CB in GEO WP 2017 - 2019

SBA	Flagships and Initiatives	Community Activities & FTs
	GEOBON	Forest biodiversity Asia - Pacific: capacity building
	GFOI	LC and LCC
	GEO-Wetlands	
	Blue Planet	
	GWIS	
	GEO-DARMA	
	GEOCRI	
	GSNL	
	GEO VENER	African geochemical baselines
	GEOGLAM	
	GOS4POPS	EO4HEALTH
	Geo Human Planet Initiative	



## CB in GEO WP 2017 - 2019

<b>SBA</b>	<b>Flagships and Initiatives</b>	<b>Community Activities &amp; FTs</b>
	<b>GEOGLOWS</b>	<b>In-situ Observations and Practices for the Water Cycle</b>
		<b>AquaWatch</b>
		<b>DIAS</b>
<b>Climate Change</b>	<b>Climate Change on Africa's Coastal Zones</b>	<b>C3S</b>
<b>Data Management &amp; Communication Infrastructure</b>	<b>GEOSS-EVOLVE</b>	<b>Research data science summer schools</b>
		<b>GCI operations</b>
		<b>GEONETCast</b>
<b>Regional Initiatives and SDGs</b>	<b>AfriGEOSS</b>	<b>Himalayan GEOSS</b>
	<b>AmeriGEOSS</b>	
	<b>AOGEOSS</b>	
	<b>EO4SDGs</b>	
<b>Other</b>		<b>EO for Cultural heritage documentation</b>
		<b>Space and security</b>

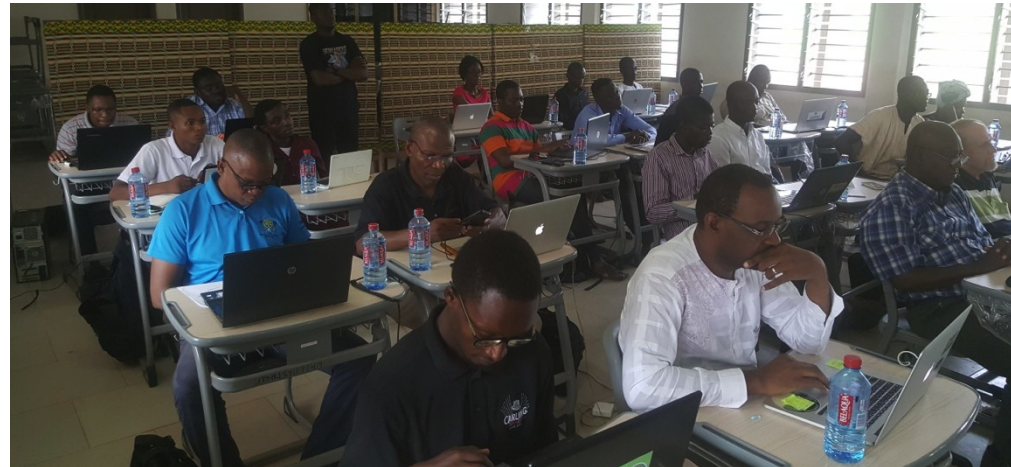


# AfriGEOSS Training



- Software Carpentry
- Google Earth Engine
- Sentinel Data Access & Processing Tools

Outcome: identified participants to undergo training of trainers course



# CB in GEO WP 2017 - 2019: Challenges

- Lots of information to go through
  - manually ... over 700 pages;
  - Information not populated in the “indicated” section of the report;
- Information not provided at same level of detail amongst the activities; and most importantly
- Not always clear what “capacity building” activity entails, where and when it will occur, who the target is and expected products;





# On-going Work

- **continue to work with the GEO Secretariat M&E Officer to define the data fields and tools required** to support more informative reporting on capacity building activities and resources.
- **engage with individual activities in the WP ... and GEPs ... to obtain the required data** to support coordination of capacity building activities and in publicizing / promoting capacity building events and resources...
- **seek to develop, over time, more automated methods of obtaining the required data** and thereby minimize manual reporting requirements on providers.
- **Solutions towards a sustainable maintenance and upgrade of GEOCAB Portal.**



# Value of connecting with GEO

- Meet the proposal call objective - “contribution to GEOSS”
- Visibility to the wider EO community
- Building networks and collaborations
- Promotion of events – events calendar
- Uptake of products – continued use after project ends



# How to Connect the GEPs to GEOSS

- Proposal stage: address GEO needs, embrace GEO data principles, include GEO members in the consortium etc., receive letter of support
- Start of project: Connect with the GEO Secretariat
- Be visible in the GEO Work Programme
  - Identify and connect with existing GEO Flagship, Initiative, Community Activity or Foundational Task
  - As standalone Community Activity
- Connect with GEO CBC FT, share:
  - information on activities, tools, products and services
  - best practices
  - user requirements
- Use resources in and register your resources in GEOCAB Portal



# Thank you!

[www.earthobservations.org](http://www.earthobservations.org)

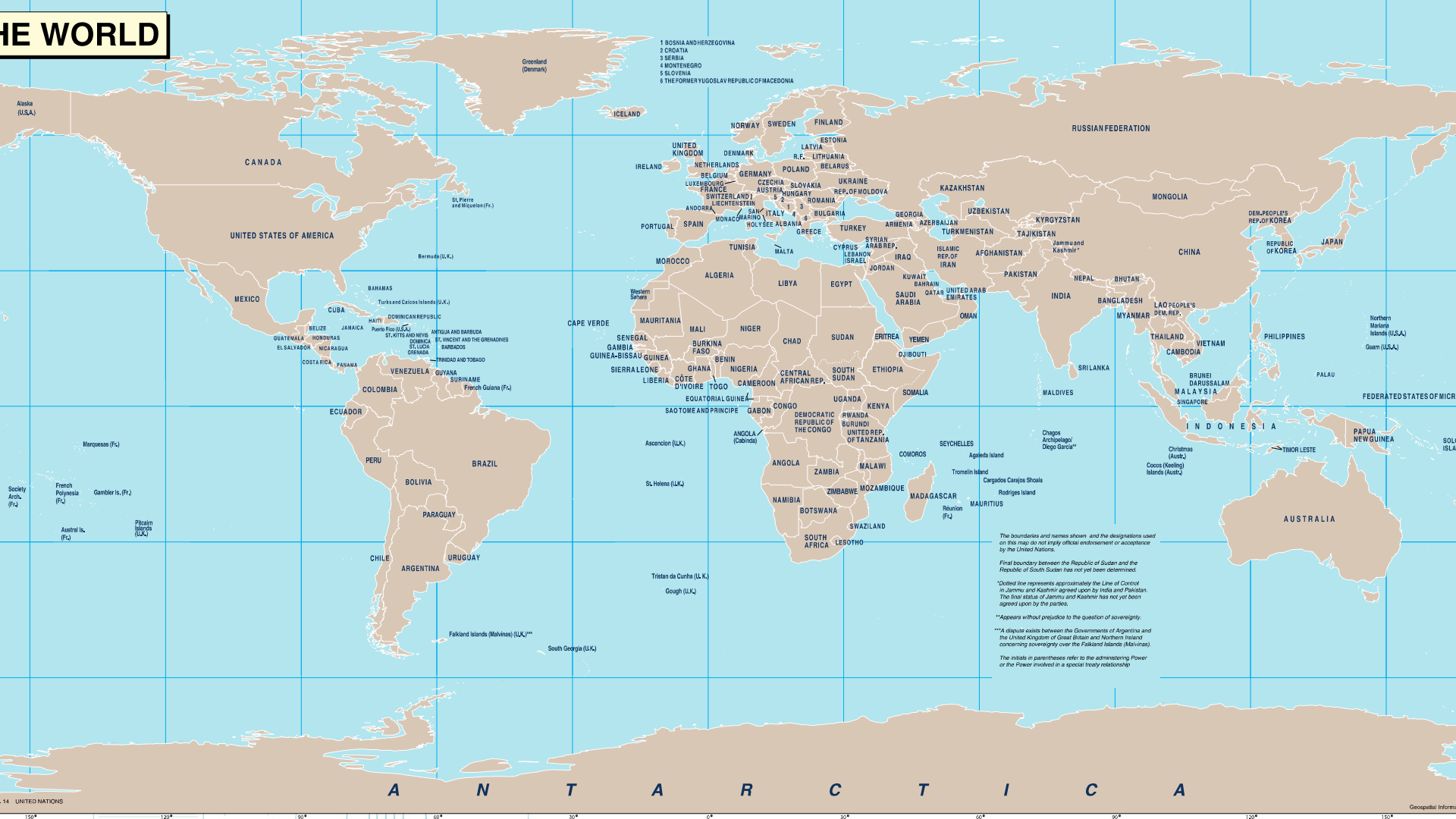


## a) What is the best way to contribute to GEO capacity development

- Let the GEO community know:
  - You exist
  - What are you doing? Where? when? With whom? For Whom?
- What are the outcomes, products, that may be taken up by others?
- **Connect with GEO CBC FT:**
  - information on activities, tools, products and services
- ..... To be included in the GEO Work Programme Progress Report for GEO Plenary, Washington, October 2017.



# THE WORLD



- 1 BOSNIA AND HERZEGOVINA
- 2 CROATIA
- 3 SERBIA
- 4 MONTENEGRO
- 5 SLOVENIA
- 6 THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA

The boundaries and names shown, and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

Final boundary between the Republic of Sudan and the Republic of South Sudan has not yet been determined.

Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

\*\*\*Appears without prejudice to the question of sovereignty.

\*\*\*A dispute exists between the Governments of Argentina and the United Kingdom of Great Britain and Northern Ireland concerning sovereignty over the Falkland Islands (Malvinas).

The initials in parentheses refer to the administering Power or the Power involved in a special treaty relationship