

GEO: Delivering the Global Earth Observing System of Systems (GEOSS) and Building Global Capacity for EO

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A world map with a white background. Landmasses are colored in a solid blue. Country borders are indicated by thin white lines. An arrow originates from the bottom left corner of the image and points directly to the country of Brazil in South America.

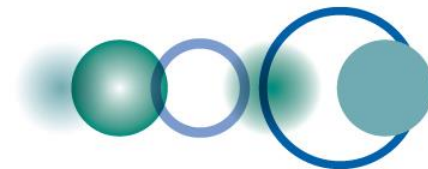
Participating Organizations





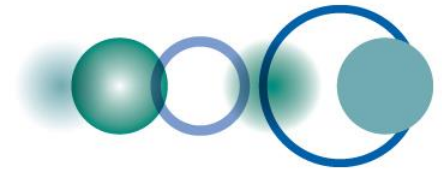
- i. Promote **broad and open sharing** of Earth observation data globally;
- ii. **Coordinate** strategies and investments in observing capabilities;
- iii. Develop an **information architecture** to enable sharing of data and information;
- iv. Develop new integrative initiatives to **deliver services** tailored to specific end-user needs, creating and fostering the connection between data providers and users.
- v. **Build capacity** to strengthen competencies in the effective use of Earth observations for responding to societal challenges.





Societal Benefit Areas



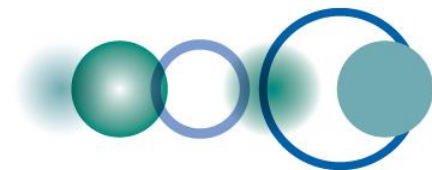


What does GEO have to offer?

In addition to 60+ Work Programme activities, the GEO Community is creating **GEOSS**, a Global Earth Observation System of Systems, and has already made available over **400 million data and information** resources via:

www.geoportal.org





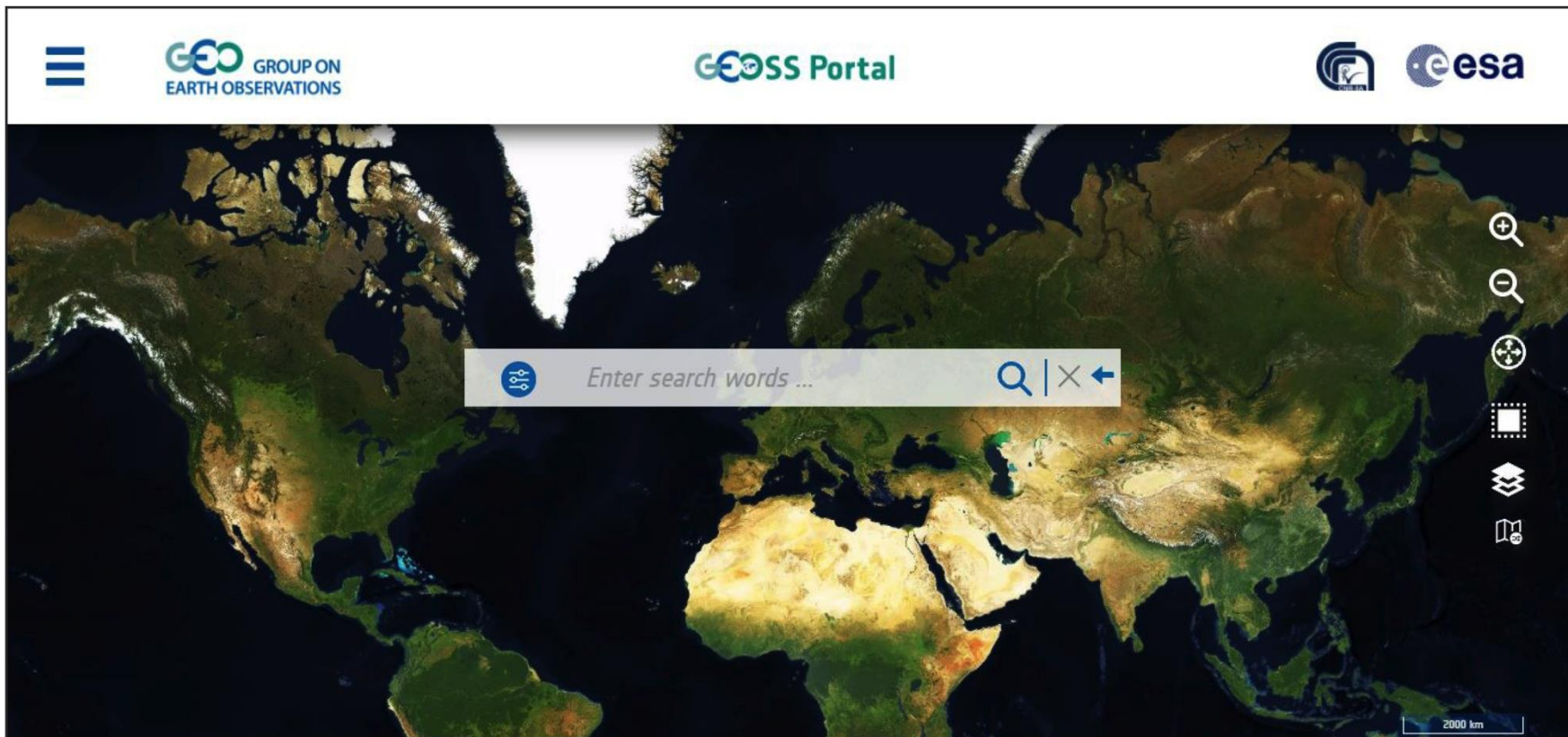
Where does GEOSS data and information come from?

The GEOSS Common Infrastructure (GCI) brokers more than 165 generally public autonomous data catalogs and information systems, **comprising over 400 million data and information resources.**

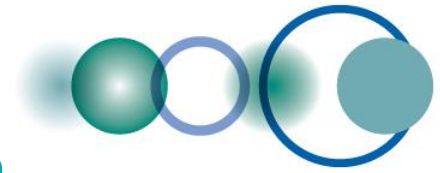


GEOSS

Global Earth Observation System of Systems



www.geoportal.org



Capacity Building Coordination Foundational Task

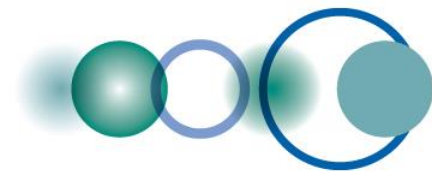
Coordination of capacity building in GEO is undertaken by the Capacity Building Coordination Task Team, with following actions:

- ❖ 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

	OUR ACTION	YOUR ACTION
Promote	Showcasing events	Show-up
	GEO Capacity Building profile	
	Capacity Building web page	
	Calendar of events	Provide information on activities: slides, brochures, articles etc.
	Feature in GEO Blog	
	GEO Secretariat thematic presentations	
	Products, tools and material in GEOCAB Portal	
Connect	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
Support	Provide best practices	Lodge interest with CBC WG
	Capture needs and requirements	articulate needs open to engage with providers
	Provide brokering services (needs with providers)	providers



Best Practices

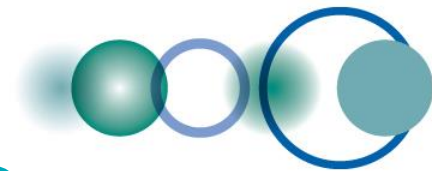
Building on past decade successes

- Training courses and information dissemination workshops on use of EO for various SBA;
- 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.



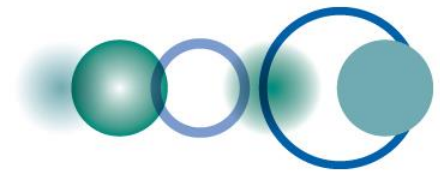
Bringing GEOSS services into practice





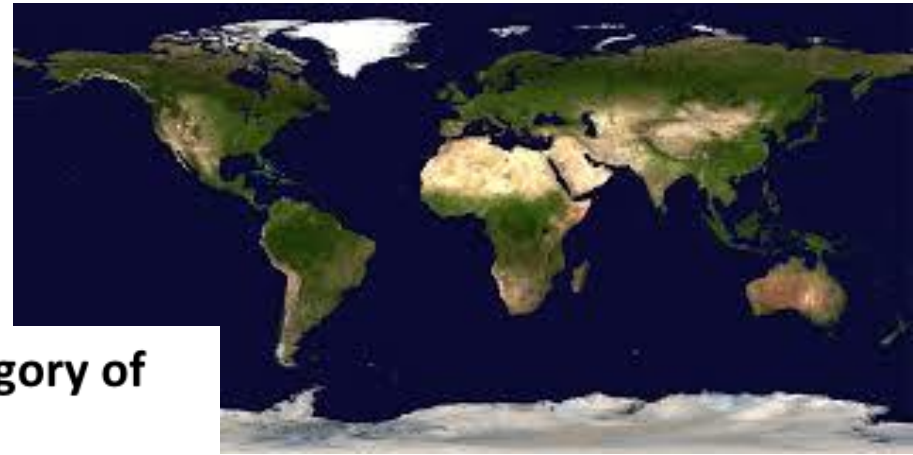
Capacity Building in GEO Work Programme 2017 - 2019

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

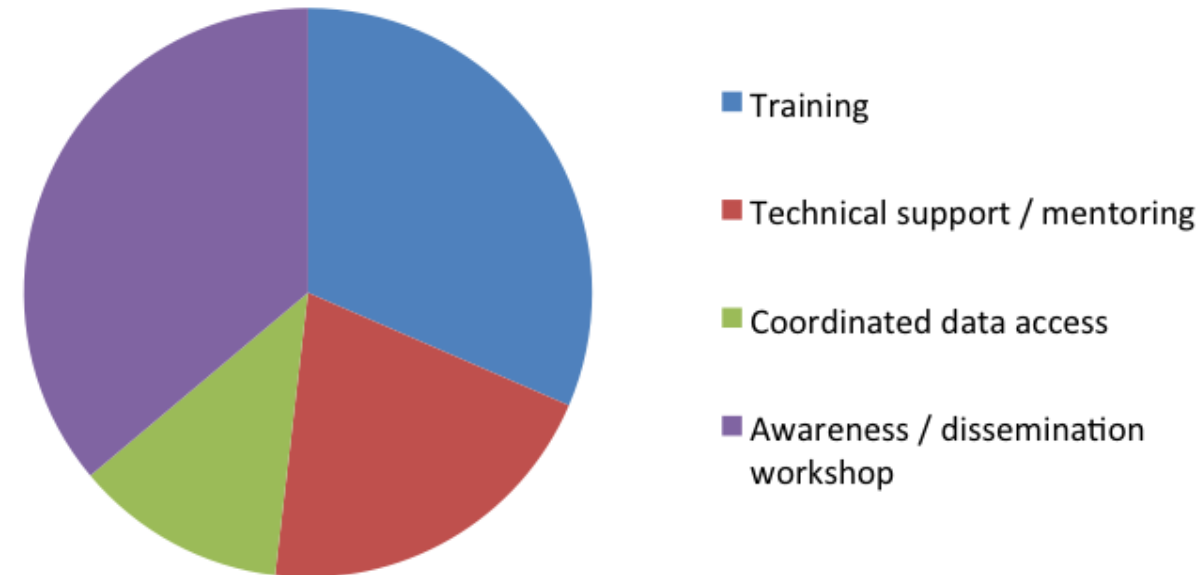


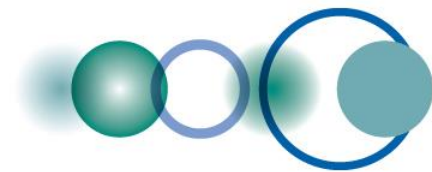
Global reach on Capacity Building

❖ Reaching over 51 countries



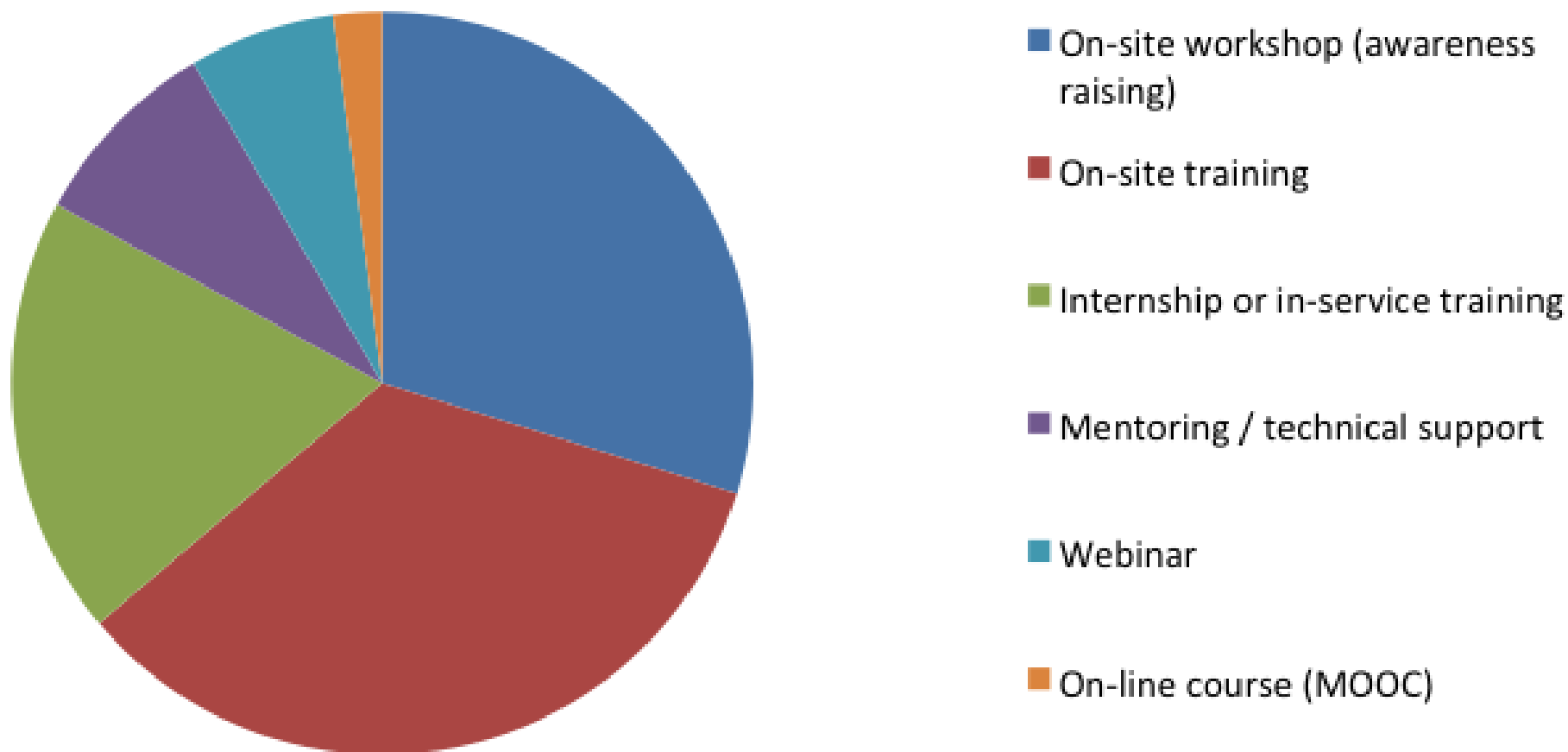
Countries receiving capacity building per category of activity





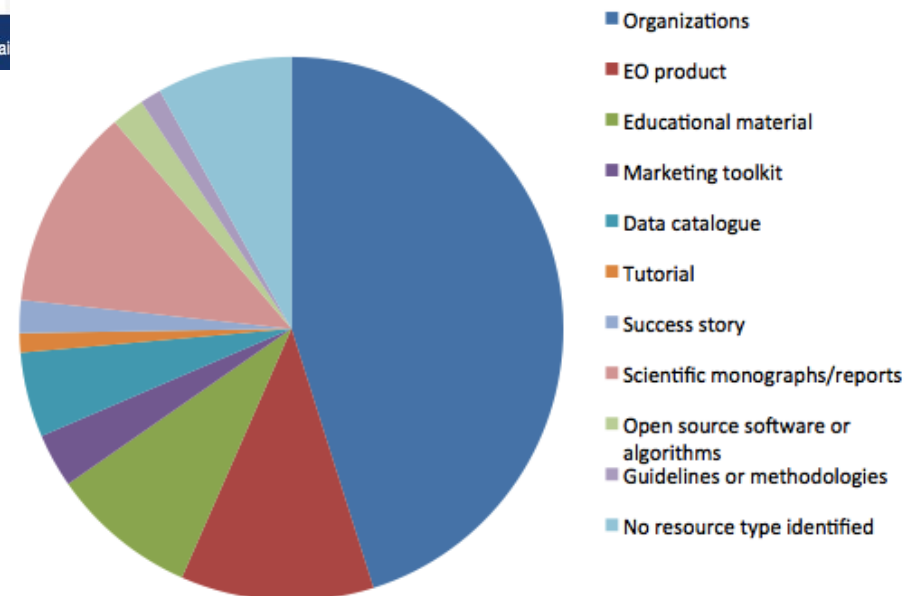
Methods of delivery

Capacity building activities by category of activity

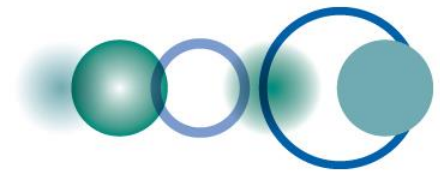


The screenshot shows the GeoCaB search interface. At the top, there is a search bar with the word 'disasters' entered. Below the search bar, the results are displayed in a table. The table has columns for 'Refine your search', '28 Results', 'Order by: Title', and 'Creation date'. The results list three items: 'Workshop "Bringing GEOSS services into practice"', 'Geodesy Studies at Warsaw University of Technology', and 'Mastère SILAT'. Each item has a small icon and a brief description. To the right of the table is a world map with several location pins. At the bottom of the interface, there are links for 'Documentation', 'Contributors', 'How to participate?', and 'Disclaimer'.

Capacity building resources by resource type



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



GEO Partnership 105 Members

GEO Member Map for the year 2017

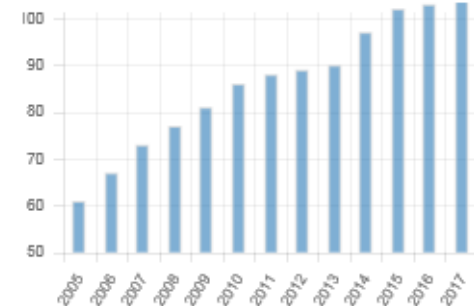


Number of Members (2017)

Africa:	27
Americas:	16
Asia/Oceania:	21
C.I.S.:	7
Europe:	34

Total: 105

Number of Members by year



2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017

50



Speakers

10



Technical Sessions

3



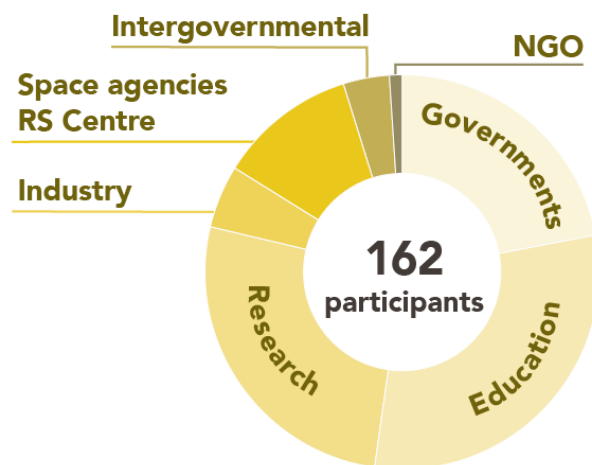
Training Sessions

8

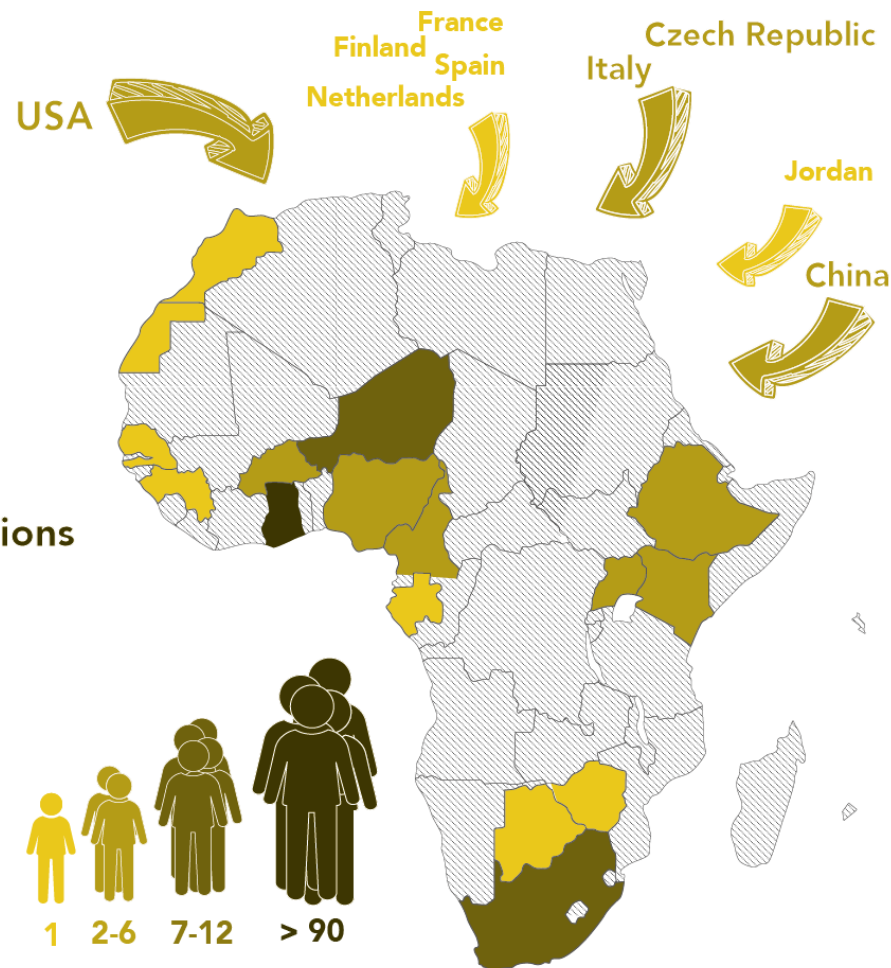


Exhibitors

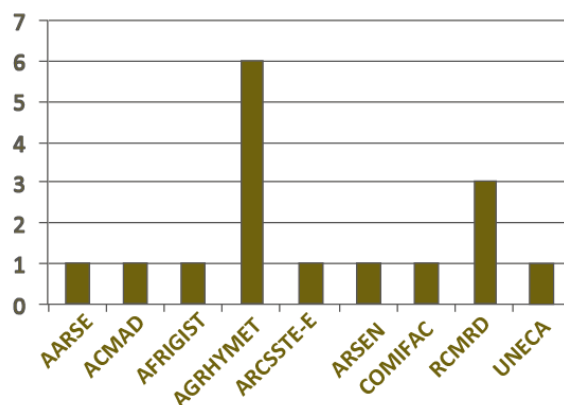
Number of people per Sector



Number of people per country



Number of people per Participating Organisations



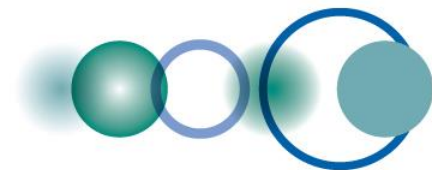
AfriGEOSS TRAINING

Preparing geospatial scientists for EO & Big Data with computing and data processing skills

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

Outcome: identified participants to undergo a **training of trainers** course, to be followed by national training workshops





AmeriGEOSS Week 2017 - Participation



1 Americas Caucus & AmeriGEOSS Coordination Working Group (CWG) Meeting



2 Side Events



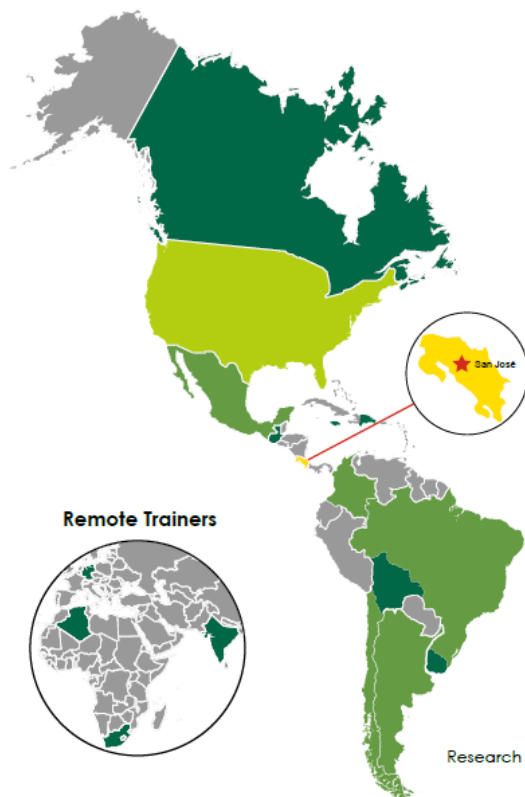
3 Training Sessions



45 People Trained



40 Institutions



Top Outcomes:

1. Launched AmeriGEOSS Community Platform
2. Costa Rica was elected as CWG Vice Chair starting October 2018
3. AmeriGEOSS Week 2018 will be hosted by Brazil

AmeriGEOSS Week 2017 San Jose, Costa Rica

Number of People Per Country



1



2-5

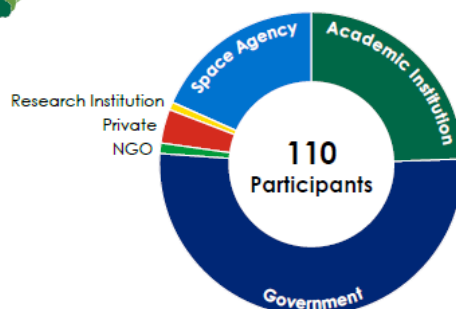


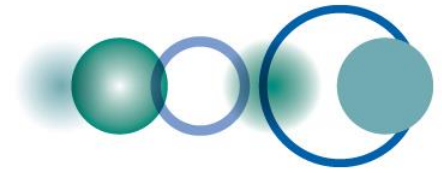
6-13



>72

Number of People Per Sector





Invitation to Contribute

- ❖ Share your activities -- GEO Work Programme monitoring tool enables the capturing of information on Who is doing What capacity building activity Where
- ❖ Register your resources in the GEOCAB Portal
<http://www.geocab.org/>
- ❖ Share your best practices

Thank you!

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