

**Sub-task Number:** CB-09-04b

**Sub-task Title:** Capacity Building Performance Indicators

**Overarching Task:** Capacity Building Needs and Gap Assessment

**Area:** CAPACITY BUILDING

**Relevant Committee:** CBC

**Related Targets:** (to be included in 2009)

**Sub-task Definition** (as given in the 2009-2011 Work Plan):

Develop reliable and widely accepted qualitative and quantitative metrics for measuring (i) the efficacy of Earth observation capacity building programs and (ii) the implementation of GEO capacity building strategy. The development of these metrics will require the engagement of the entire GEO community to ensure buy-in.

**Leads** (GEO Member or PO, Entity carrying out the work, Contact: e-mail):

UNESCO/IOC, Point of Contact: Joannès Berque, j.berque@unesco.org

Morocco (DMN), Noureddine Filali, Nour.filali@gmail.com

### **Motivation/Background**

Capacity-building is essential for GEO to truly benefit the societies of all countries. There is a large diversity of groups conducting capacity development activities in space observations and applications, and one of the role of GEO is to ensure that these efforts are coordinated. Indicators are one of the tools that are useful in this respect, to help identify how much capacity building is conducted, in which area and where it is missing, and how effective it is. At present, the development of a unified framework of indicators to measure effectiveness of capacity development activities is still an open area of research. There is currently little harmonisation and coordination of their use among the many organisations participating in GEO.

**Outputs** (e.g. products and services which result from the activities of the Task/sub-task; outlined in the form of deliverables with timelines)

Planned: Standardized methodologies

GEO Capacity building indicators

Produced (current status): ...

1. default scorecard for capacity development indicators in GEO
2. draft framework document for measuring capacity-building in GEO

**Activities** (operations or work processes through which resources are mobilized to produce specific outputs; outlined in the form of milestones including timelines)

Planned:

1. Develop indicators to measure the implementation of GEO capacity building strategy and the achievement of its objectives.
2. Compile & develop indicators that could be adopted/already adopted by GEO members and participating organisations to provide information on the impact and outcome of Earth observation capacity building programmes.
3. Compile and develop methodologies standardizing the collection of data for these indicators.
4. Encourage the GEO community in developing these indicators and build on existing capacity building indicator frameworks used by international organisations.
5. Monitor and assess Task CB-07-01c implementation.

*Progress (current status): ...*

### **Feb-Apr 08**

- Second meeting of the task team prior to the 6<sup>th</sup> Meeting of the CBC. BGR presented its experience with capacity development, and a score-card approach to capacity development evaluation was proposed.
- During the 6<sup>th</sup> CBC meeting (Hannover 13-14 Feb) it was proposed that a few simple questions be added to GEO task sheets to have a first order survey of ongoing capacity development within GEO, identify corresponding gaps and priorities, and help harmonise member organisations activities. The CBC agreed to propose this to the C4.
- The C4 and Executive Committee agreed that the questions could be added, but stipulated that they should not be overly burdensome. After discussion within the task team and secretariat, and bearing in mind the need to keep the extra time requested from task teams to the minimum while obtaining useful information, it was agreed to propose the following questions:
  - Does this Task have a capacity-building component (refer to definition below)? If so, please provide a short description, including a list of beneficiaries, of these activities.
  - Have you identified any unmet CB needs for this task?

**Sep 08** – GEO Performance Indicators workshop is attended by Task Team members. Possibilities to harmonise task activities within the general framework of GEO performance indicators will be discussed within the Task Team.

**Resources** (*indication of resources – e.g. financial, human – contributed by GEO Members or Participating Organizations to produce outputs*)

The Task Team members provide time, although at present this contribution is not evaluated precisely.

### **Architecture and Data Component**

1) Please briefly describe any task-related Earth observation resources (data set, system, website/portal) and any related Web Service interfaces that are contributed to GEOSS. State whether these items are or will be registered with the GEOSS Component and Service Registry for access via the GEO Web Portals, and whether any associated standards or other interoperability arrangements will be registered in the Standards and Interoperability Registry.

2) Please also describe what data and information your activity/system needs that you would request to be accessible through the GEOSS Common Infrastructure.

### **Capacity Building Component**

(capacity building is defined to include the development of capacity related to: (i) Infrastructure and technology transfer (Hardware, Software and other technology required to develop, access and use EO); (ii) Individuals (education and training of individuals to be aware of, access, use and develop EO) and (iii) Institutions – building policies, programs & organizational structures to enhance the value of EO data and products).

1) In accordance with the above definition does this Task have a capacity-building component? If so, please provide a short description of this component including a description of end users.

The task is within capacity-building activities by nature. End-users: the GEO community's actors in capacity-building, for whom the metrics and tools to measure capacity-building to be harmonised or developed are intended for

2) Have any additional CB needs for this Task been identified? Please provide a short description.

At present the task objectives seem ambitious in light of available resources. In this context a focus on key aspects is proposed.

**User Engagement Component**

*(please briefly describe to what extent end users are engaged in this Task and influence the nature of the outputs produced)*

Task team members include several users of earth observation data and provide appropriate guidance in this way towards the nature of outputs to be focussed on. When specific indicators and/or monitoring frameworks for capacity development are produced, it will become important to include project beneficiaries in the conception and development of the indicators.

**Science and Technology (S&T) Component**

*1) Please briefly describe the elements of scientific research or technological development contained in this Task.*

*2) In relation to the S&T component(s) of this task, please describe gaps, priorities, continuity needs, barriers, scientific expertise and additional resource needs (this information will be used for developing a gaps and needs assessment in Task ST-09-01)*

**Members and POs' Contributions to Outputs and Activities above:**

*(Input is optional. This section gives the chance to Members and POs to provide more details (3-5 lines) on their individual activities, making a clear connection with the Outputs and Activities outlined above).*

**Italy**

ISPRA: Networking for new methodologies about training needs assessment, indicators and workshops.

**Participation (Table to be filled in 2009):**

Type	Member or PO	Representing	Contact Name	EmailAddress
Lead (PoC)	UNESCO-IOC	UNESCO-IOC	Joannes Berque	j.berque@unesco.org
Lead	Morocco	Direction de la Météorologie Nationale	Noureddine Filali	Nour.filali@gmail.com
Contributor	Germany	Deutscher Wetterdienst (DWD)	Stefan Rösner	stefan.roesner@dwd.de
Contributor	Germany	Deutsches Zentrum für Luft & Raumfahrt (DLR)	Wieland Künzel	wieland.kuenzel@dlr.de
Contributor	Germany	Bundesanstalt für Geowissenschaften und Rohstoffe	Michael Kosinowski	m.kosinowski@bgr.de
Contributor	Nigeria	Ministry of Environment	Adeniran Akanni	adeniranakanni@yahoo.com
Contributor	South Africa	Umvoto	Andiswa Mlisa	andiswa@umvoto.com
Contributor	Spain	INM	Marta Angoloti	mangoloti@inm.es
Contributor	Netherlands	ITC	Yola Georgiadou	georgiadou@ITC.NL
Contributor	Italy	ISPRA	Gaetano Battistella	gaetano.battistella@apat.it
Contributor	UK	DEFRA	Adina Gillespie	adina.gillespie@defra.gsi.gov.uk
Contributor	Uzbekistan	Central Asian Countries Initiative for Land Management	Raisa Taryannikova	raisa.taryannikova@ncsa.uzsci.net