CEOS WGCapD Capacity Building Inventory

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Agenda

- Background/Issue
- Objective
- End Product
- Methodology
- Timeline
- Discussion Topics
  - Capacity Building Definition
  - End Product (Funding Source & Development)
  - Questionnaire
  - Organizations
  - Timeline Feasibility

Background of Inventory

- Capacity building activities are being carried out across the globe by various organizations

- Lack of coordination leads to less than efficient use of limited resources

- Many organizations are simply not aware of many of the capacity building activities focusing on the use of space-derived data

- Example: Developing a list of countries to receive SRTM data
  - List was made based on UNDP HDI, partnerships, and existing relationships
  - As mentioned in the Bangalore Plenary, this data could help with National Demonstrator projects for GFOI
  - Could have prioritized countries based on existing CEOS projects if there was an easy way to search for that information

Background (continued)

- Issue highlighted at the first WGCapD meeting in Ilhabela in 2012
  - Took action to develop an overarching strategy
- Bigger Picture
  - Inventory referenced in GEO Post 2015 Recommendations
  - Suggested by GEO Secretariat Director, Barbara Ryan, to plan timeline to showcase the end product at GEO Ministerial in January 2014
  - Recommendation coming from GEO Water Strategy Report at December 2012 San Francisco workshop to do an inventory of water cycle related trainings and training materials
  - ***CSS: Topical Team on Roles and Responsibilities -*** To minimise some of the risk of internal duplication, a systematic cataloguing of capacity building activities within the VCs is proposed as part of recommendation **[R.3]**
- Historical precedent in CEOS –Annual Report on Developing Country Activities completed by EUMETSAT in 1997

Objective

- The primary objective of this project is to compile all current capacity-building efforts on the use of space-derived Earth observation (EO) data for societal benefits into an easily updateable format that is simple to use.

- Once completed, the project will serve as a comprehensive resource of ongoing capacity-building efforts, helping those actors involved better coordinate their existing activities and possibly inform future planning.

End Product Example

http://map.usaid.gov
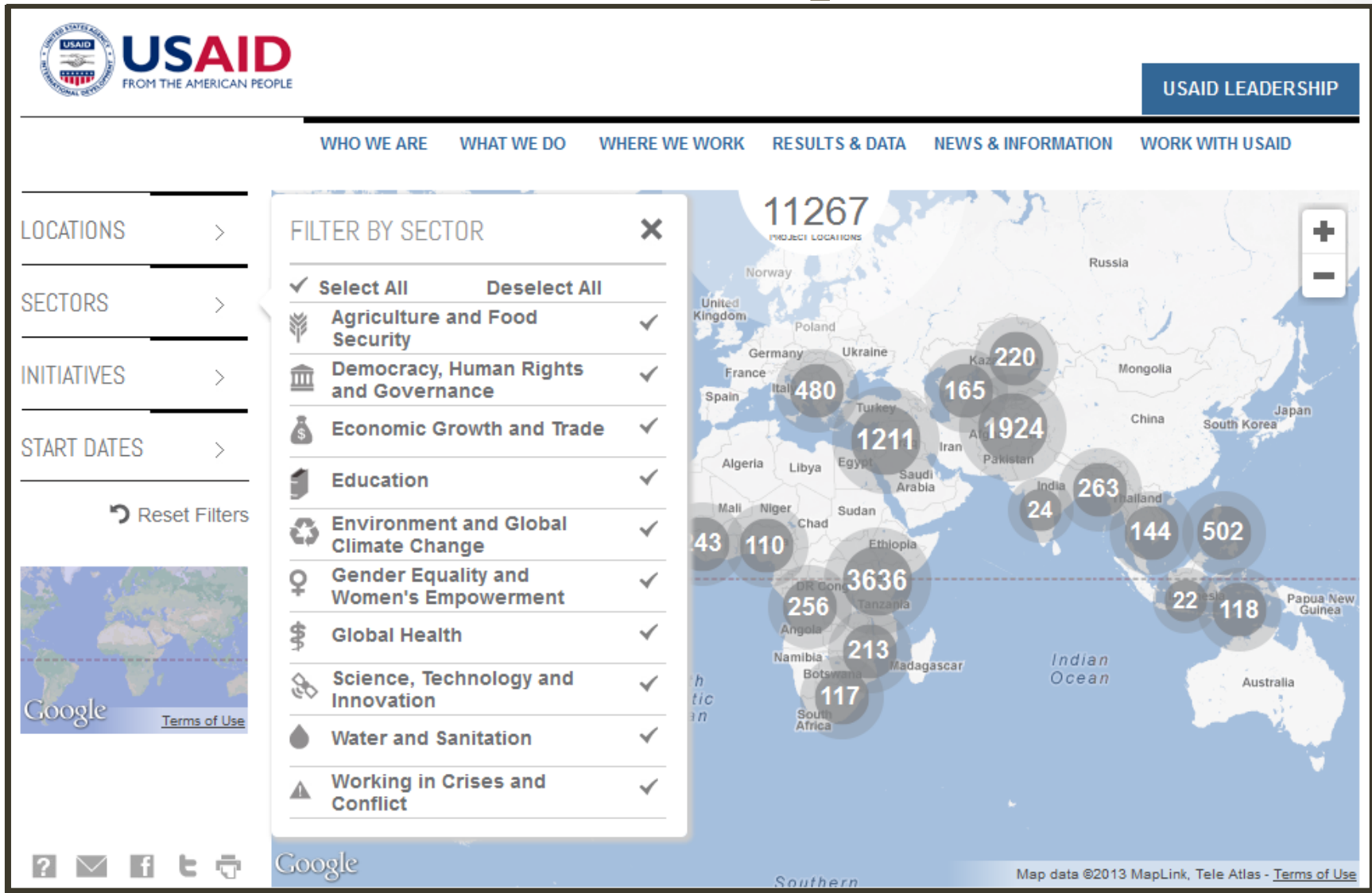
End Product (continued)

- Clickable by country
- Sortable by layers, which would be associated with the SBA's of GEO
- Resources to produce this type of output would be necessary
  - AfriGEOSS
  - Donor and development assistance agencies
  - In house (CEOS) knowledge may exist to do this type of work
- Preferably hosted on CEOS website, but depends on funding source

Methodology

- Collecting the information is the crucial step in this process
- Reviewing previous studies paired with their desired outcomes, a questionnaire was selected (subject to WG comments and suggestions) as the best medium to gather the required information
- Personal contacts and follow-up would be key in securing the participation of many organizations
- A WGCapD subgroup would likely need to be formed to continually keep the map up to date

Timeline

Design
March 12, 2013

- Refine proposal, determine funding, secure approval
- Identify Points of Contact for all institutions from which we would like information

Outreach
July 31, 2013

- Official outreach to CEOS Member, Associates, Partner Organizations, Others
- Personal contact follow-up

Consolidation
Nov. 4, 2013

- Consolidate and quality check the information received
- Develop beta map

Publication
January 2014

- Product goes live
- Inventory and Product are continually updated

Timeline

- Design – Due March 12, 2013 for SIT Consideration
  - Consultations with previous inventory efforts within CEOS
  - Clearly defined purpose and scope
  - Development of end product idea
  - Development of questionnaire
    - Questionnaire beta tested on the WG to refine information
  - Determine time commitment to fill out questionnaire
  - Identify Points of Contact for all institutions from which we would like information
  - Address essential questions
    - Funding of product development, capacity building definition, etc....

Timeline (continued)

- Outreach Phase – Due July 31, 2013
  - Official outreach to CEOS Members
  - Outreach to CEOS Associates, Partner Organizations, Others
  - Personal contact follow-ups
- Consolidation Phase – Due November 4, 2013
  - Consolidate information received
  - Build global map with clickable links to POC's and brief project descriptions
  - Build layers on map for different SBA's
  - Announce Beta product and get feedback
- Announcement Phase – Due January 2014
  - Product goes live
  - Continuous update

Discussion Topics

- Capacity Building Definition and Scope
- End Product (Funding Source & Development)
- Questionnaire
- Organizations
- Timeline Feasibility

Capacity Building Definition

- We are currently using the four pillars of Data Democracy as our definition of capacity building
  - Providing access to data
  - Providing physical infrastructure to receive and analyze data
  - Providing access to software and tools for processing and analyzing data
  - Providing education and training on how to use and interpret data
- Is this too broad?
- Do we need to more clearly define the activities we are looking for?
- What definition leads us to the most effective collaboration mechanism for our end product?

End Product

- Initial Comments on Proposed Design
    - Examples:
        - USAID Lending Map
        - USAID Interactive Map
        - InterAction Food Security Aid Map
- Need a team to look at funding, design, and oversight of the development of the product
- Questions we need to answer for SIT are:
    - Estimates of costs associated with developing and maintaining site (continual updates will be necessary)
    - Estimate of timeline
    - Who can develop and host the map
    - Possible funding sources

Questionnaire

- Comments about questionnaire
  - Time that it took you to fill out the questionnaire
  - Clarity and precision
  - Other impressions of the questionnaire (things to add, subtract, rearrange)
  - Other survey tools that might be better than Google forms

- Will this questionnaire get us to the end product that we envision in the previous slide?

- Link to Questionnaire

Organizations

- Need to form a team that will handle compilation of organization information and will carry out the outreach
  - Presumably this team could also be responsible for reaching out for periodic updates

- What we need for the SIT meeting
  - We need a list of organizations in CEOS for which we do not have POCs
  - Need date to ask for questionnaires to be completed by – Nominally July 31

CEOS Member Organizations

CEOS Members	Country	POC
Agenzia Spaziale Italiana (ASI)	Italy	
Canadian Space Agency (CSA)	Canada	
Center for the Development of Industrial Technology (CDTI)	Spain	
Centre National d'Etudes Spatiales (CNES)	France	
China Center for Resources Satellite Data and Application (CRESDA)	China	
Chinese Academy of Space Technology (CAST)	P. R. China	
Comision Nacional de Actividades Espaciales (CONAE)	Argentina	
Commonwealth Scientific and Industrial Research Organistion (CSIRO)	Australia	
Deutsches Zentrum für Luft- und Raumfahrt (DLR)	Germany	
European Commission (EC)	Belgium	
European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT)	Germany	
European Space Agency (ESA)	France	
Geo-Informatics and Space Technology Development Agency (GISTDA)	Thailand	
Indian Space Research Organisation (ISRO)	India	
Instituto Nacional de Pesquisas Espaciais (INPE)	Brazil	
Korea Aerospace Research Institute (KARI)	R. Korea	
MEXT (Ministry of Education, Culture, Sports, Science, and Technology/Japan Aerospace Exploration Agency (JAXA)	Japan	
National Aeronautics and Space Administration (NASA)	US	
National Oceanic and Atmospheric Administration (NOAA)	US	
National Remote Sensing Center of China (NRSCC)	P.R. China	
National Satellite Meteorological Center/Chinese Meteorological Administration (NSMC/CMA)	China	
National Space Agency of Ukraine (NSAU)	Ukraine	
National Space Research and Development Agency (NASRDA)	Nigeria	
Netherlands Space Office (NSO)	Netherlands	
Russian Aviation and Space Agency (Roskosmos)	Russia	
Russian Federal Service for Hydrometeorology and Environmental Monitoring (ROSHYDROMET)	Russia	
South Africa National Space Agency (SANSA)	South Africa	
Space Technologies Research Institute of Turkey (Tubitak-Uzay)	Turkey	
United Kingdom Space Agency (UKSA)	UK	
United States Geological Survey (USGS)	US	

Timeline Feasibility

- Whole versus part of the globe (pilot project)

- Research and Design – Due March 12, 2013 for SIT Consideration

  - Do we have the essentials covered to raise the level of awareness of the inventory?

- Outreach Phase – Due July 31, 2013

  - 4 months enough for the questionnaire?

- Consolidation Phase – Due November 4, 2013 – Coincides with CEOS Plenary –

  - 3 months enough to build website?

- Announcement Phase – Due January 2014 – Coincides with GEO Ministerial

Thank You!