

ROADMAP ELEMENTS

- Development work needs to be done
 - ◆ Refine guidelines
 - ◆ Develop forms and templates
 - ◆ Support harmonization
 - ◆ Metadata structure
 - ◆ User interaction, capturing user requirements (for data and services)...
- Needs a strategy to direct the effort towards the different SBAs
 - ◆ Different SBAs will go at different paces,
 - ◆ Select one or several SBAs
 - ◆ Find champion in each selected SBA
 - ◆ Identify benefits (or cost to be avoided) by QA4EO
 - ◆ Justify resources to be assigned....
- Need GEO engagement to promote QA4EO
 - ◆ Raise awareness
 - ◆ Capacity building
 - ◆ Adequate link in GEO structure (ADC, User Interface Committee - UIC..)

WHAT SBA SHOULD BE CONSIDERED IN PRIORITY?

Among the most or less advanced ? Where is priority need, most likely benefit?

- GEO has a POC list for each SBA – have GEO engage each SBA for highest-priority focus for development of QA templates/support
 - ◆ QA4EO introduced into International Energy Agency (IEA) task? (action item)
 - ◆ Target the task and not the SBA (from the new GEO Work Plan) – action from GEO
 - ◆ Include Disaster SBA with already existing coverage
 - ◆ SBA to check end-to-end chain, and new data sets (IN-2)
 - ◆ Associate QA4EO with already existing data sets in Data Core activities
 - ◆ Search for the champion within a task (for those who are interested in participation)
 - ◆ Top-level action aimed at implementation within all activities

WHAT DELIVERABLES CAN PROVIDE THE BEST BENEFIT?

Benefit of enhancing the value of planned activities, or avoiding cost of not doing QA4EO..

- Key point – start looking at the tasks to extract the value, selecting those with the best or greatest amount of return (or potential for return)
 - ◆ Some tasks target QA, tasks exist that already target quality
- Provide examples up-front for some substance (including focus on EO community)
 - ◆ Forest Carbon Tracking, linked to economic issues (needs to be a high degree of confidence within the community), agreed level of uncertainty
- Which part of the process can we make the largest amount of change?
 - ◆ Translation – something a novice user can understand (gain in confidence)
 - ◆ Lack of information provided with datasets, including quality information being used by data provider/producer (how do they promote this with modeling?)
 - ◆ Education – formats, standards, tools (documentation of a **simple** example for use)
- Still focused on satellite data, what about an additional focus on in situ data (i.e. biodiversity)?
 - ◆ Need to encompass as much as possible
 - ◆ *caution of not focusing on air quality, instead target “low hanging fruit”
 - ◆ Provide tools, metadata examples, standards templates
 - ◆ Potential for immediate impact/benefit
- Possibility of hosting a training workshop?

CROSS-CUTTING PROMOTION OF QA4EO

Role of CEOS for space-based aspects

- Some work within space agencies ties in (should be feedback to WGCV) to display projects as examples (including the tie to WGISS)
- QA4EO should be discussed as a focus within the CEOS Working Groups
 - ◆ Action item: Start to implement QA4EO focus within CEOS

Role of GEO for overall QA4EO: promotion, capacity building

- QA4EO process needs to be embedded within the SBAs, document to go to GEO Plenary 2012
 - ◆ Elevate the cross-cutting activities to the GEO level
 - ◆ What will the message be? Is there enough time? Document should confirm the principles/guidelines of QA4EO, present solid examples of benefit, display cooperation with tasks, and present some kind of plan to implement across GEO activities
 - ◆ More informed decisions utilizing the right (quality) data
- Want to do something for real users, real data providers, demonstrate how it all ties in
 - ◆ Target the intermediate level that ties in the users to the policy makers (stakeholders)
 - ◆ Put the name and the association into GEO-level workshops (capacity building), in a way to assess progress being made in targeted areas

How to link with the GEO structure?

- Dedicated working group that will implement



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ACTIONS AND TIMELINE

- **QA4EO presentation for GEO Plenary**
 - ◆ 2011 - Develop a couple of QA4EO bullets for the GEO Plenary 2011
 - Introduce the principles/guidelines of QA4EO, as a part of the CEOS report
 - Plenary Chair (ASI)
 - ◆ 2012 – Create a QA4EO document (20-page) for GEO Plenary 2012 (Giovanni Rum / Yasukini Okubo)
 - Present solid examples of benefit, display cooperation with tasks, and present some kind of plan to implement across GEO activities
 - GEO ad-hoc working group (i.e. butterfly man), to include non-space
 - Draft document – **June 2012**; Final document – **September 2012**
 - ◆ 2013 – Ministerial discussion
- **GEO Secretariat SBA leads to identify GEO tasks as candidates for QA4EO Implementation Pilots (QIP)**
 - ◆ Coordinate with GEO Secretariat on appropriate criteria to define the tasks
 - GEO task co-leads of DA-09-01a
 - ◆ One that focuses on space-based, and one that focuses on non-space-based
- **QA4EO leads (?) to contact and engage candidates for QIP**
 - ◆ GEO task co-leads of DA-09-01a
 - ◆ Implicit task to establish a working group
 - ◆ Acknowledge connectivity to the AIP (subtask?)
 - ◆ Test case for benefits
 - ◆ Development of supporting tools (metadata, requirements, templates, etc)

ACTIONS AND TIMELINE

- **Promotion events (workshop)**

- ◆ QA4EO to be routinely addressed in User Workshop (agenda item)
- ◆ Are there any other forums to promote?
 - Connection to the UIC
 - As suggested by the new ad-hoc working group (i.e. butterfly man)
 - Connection to other science groups/committees? Promote greater awareness of QA4EO

- **Implement QA4EO focus within CEOS Working Groups**

- ◆ Engaging activities within all of the CEOS Working Groups
 - Include QA in virtual constellations?
 - QA4EO engagement with the CEOS new working group on capacity building and data democracy

- **Focused work at all levels**

- ◆ Refinement and extension of the generic guidelines
- ◆ Planning on outreach and education