

C4B: Knowledge break-out group

Afternoon session (2)

Facilitator: cm

Group (2)

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- Chris Mannaerts (reporting) (ITC-UT, NL)

Knowledge...?

- Knowledge generation and integration
- Knowledge dissemination
- Near the end of the value chain
- Knowledge for whom?
 - Decision makers
 - Public
- End-users: informed society and water professionals:
 - Differentiation according water quality issues and uses
 - Water quality has multiple facets -> *information needs and requirements*: e.g. look along water uses: drinking water, bathing waters, aquatic ecosystems, fisheries, irrigation & agriculture, industry, navigation,...

Knowledge generation

- What knowledge can be generated (e.g. Nasa applied science program,...-> dissemination, capacitate,..)
- Ref. more of other group discussions -> data, product development, information generation,..
- Scale issue of knowledge ->
 - Global “core” WQ datasets; processing levels ?
 - Feasible for: open ocean (y), coastal zones, inland wb?
 - Societal needs are also more regional, local, catchment, wetlands,...? How to? Any role for GEO?...
- Use “multiple evidence approach” (ref.Unep) to agree on EO WQ information product...

Knowledge Integration

- Knowledge systems: communities on WQ:
 - EO (remote sensing science) community
 - In-situ water quality, telemetry, sensor experts
 - Modellers (system behaviour)
- -> Connect these (rather specialist) communities
- Connect shareholders / interface
- !! But also integrate with societal benefits
 - Policy-makers, socio-economical aspects, societal acceptance, public use, ...

Knowledge dissemination

- Target “informed solutions”
- Issue: acceptance of EO 4 WQ, needs a “standard methods” (ref. water quality lab methods handbook)
 - Cross validation, merged with in-situ / model
- Disseminate, capacitate audiences
 - Increase knowledge on EO...
 - Capacity development and building processes at various levels: 1: know that it exists (apps), 2: use products (portals), 3: develop your own products (advanced level)
 - CB for different audiences: decision makers, young society, academia,....

Develop use cases – story lines

4 more public acceptance

- Outlook concept, narratives success stories..
- E.g. Water quality relationships with climate change (variability) processes, e.g. SST, HABs,..
- E.g. drinking water problem issue(s), water supply and sanitation issue is largest recognition by countries (SDG 6), develop ... link to EO?
- Health and poverty issues tempt to “overshadow” water quality in int’l (political) arena, but close links exist,....
- Follow-up Development of smartphone WQ “Apps” (use, quality assessment & control), will become mainstream wq quick look (citizen observatories, etc.)