Group 1
Recommendations and Areas for Improvement

• Stakeholder engagement
  • Engage end-users
  • Identify benefits of EO to societal segments (public, commercialization of EO data)
  • Identify planned and unexpected benefits (different types of value and impact)
  • Other stakeholders who can accept roles (GEO, OECD, FAO, World Bank)

• Identify best practices for assessing value of EO
  • Stories from across the value chain (value network) and include industry (startups and large companies)
  • Models, templates, definitions of terms (utilize current glossaries)
  • Clarify assumptions, applicability, and limitations of studies

• Need a repository of published studies reporting on the value of EO
  • Sharable database of studies (metadata catalog with links to publications)

• Work with economists to create "matrix" of needs and approaches
  • Toolbox - which resources to use for each issue
  • Interdisciplinary impact assessments (e.g. environmental impacts, resource management, disaster response)
  • Include developing countries (e.g. environmental economics, transportation economics, ...)

• Link value of EO with policies
  • Impact of EO on policy making and on policy compliance
  • Policy impact on EO
Group 2
Areas for improvement

- Attribution of value considering entire system
- Common framework: definition, terminology, ontology, methodology & documentation
- Communication targeting specific group: policymakers, decision makers, general public etc.
- Valuation of SDIs (& non spatial)
- Easier (shared) access to studies (repository?)
Areas for improvement – Best Pract.

- Value chain / decision trees (broader and better use of)
- Enhanced reproducibility, transparency & documentation, etc.
- Increased use of peer review for more credibility
- Enabling voluntary contributions through core team
- Topical interdisciplinary journal on EO (open access)
- Identifying new uses & new users for EO (short & long term)
Areas for improvement

• Obtain more data on the EO applications and data use (e.g. via Google, Amazon, individual users & data citation & DOIs)

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Group 3
Areas of Improvement

• Stakeholder involvement and actionable intelligence – action to be applied and measured
  • Sharing knowledge is not the end step...it must be actionable

• Temporal aspects
  • Need time to be considered within the benefit analysis
    • Similar to a logic model that shows different potential outcomes; target setting

• Creating guiding principles
  • Evidence based process
    • Testing case study from previous research
    • Caution against one perfect case study, but can create guiding principles with common elements

• Bring communities together
  • Make sure stakeholders are aware of how to use information available to prevent risk
  • Link EO to public interest; for example, consider youth engagement
  • Bring interdisciplinary content and communities together

• Find the policy relevant question
Group 4
How can we develop a common knowledge base and a common set of definitions so we can build upon advances in methods and practices?

• How do we build a bottom-line valuation that has confidence and trust, that economists can live with?

• How can we maximize the value of a repository? (e.g., user-friendly; easy to assess; clear description of methodology and use cases; provides comparability across methods and use cases)

• Shared taxonomy of benefits

• Strategies to build trust in EO valuation
  • Common approaches
  • Validation
  • Peer review
Should we “benchmark” case studies to identify best practices?
How?

• Yes, we should.

• Sequence: Practices → Common practices → Best practices

• Sequence: Repository → Adoption rates → Identification of best practices

• What is a framework (principles)?
  • Model that provides definition of benefits, rationale for selection of methodologies, way to interpret what you have

• Questions that need to answer first:
  • What is the nature of the market?
  • What are we trying to evaluate? (e.g., impact v. contribution)
  • Who is asking the question? What is the decision that they are trying to make?
  • Are there spillovers? (A lot of spillovers when talking about data)