



SEEA Experimental Ecosystem Accounting – Testing and research agenda

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Background

- Development of SEEA Experimental Ecosystem Accounting as a synthesis of developments across disciplines
- Short development timeframe that did not aim to resolve all conceptual and methodological issues
- Material presented to UNSC in February 2013
 - Draft SEEA Experimental Ecosystem Accounting
 - Draft Research agenda highlighting the need for continued testing and research
- Current requirement to determine
 - Priority areas
 - Appropriate mechanisms, resources and links to related projects



Key aspects of the research agenda

- Must be multi-disciplinary
 - Not aiming at discipline specific measurement improvement (although these are important)
- Must aim to cover multiple ecosystem types
- Must incorporate both conceptual work and testing of definitions and methods
- Must integrate effectively with existing projects and new initiatives
- Should link with research agenda for the SEEA Central Framework and be associated with implementation of the SEEA Central Framework



Priority #1: Spatial units

- Delineating appropriate spatial units and associated classification is central to effective progress
- Units model generally accepted but is a blend of many perspectives and needs to be tested
- Extensions to consider marine areas and the atmosphere are needed
- Important to consider optimal links to geo-referencing of socio-economic data
- Links to defining classifications for land use and land cover are important



Priority area #2: Methods for measuring ecosystem services and assets

- Concepts and definitions described in SEEA
Experimental Ecosystem Accounting
- Less obvious exactly how to populate the information
- Key considerations
 - How to determine the most important services and characteristics (don't focus on only the measurable)
 - Linking physical flows of ES to beneficiaries
 - Advancing development of classifications
 - Determining reference/benchmark conditions
 - Incorporating measures of biodiversity
 - Variation in methods across ecosystem type



Priority area #3 : Presentation and structure

- Concepts and methods need to be developed in the context of disseminating information
- Accounting structures are only indicative in the SEEA Experimental Ecosystem Accounting text
- Key considerations
 - Matching information requirements to concepts and methods
 - Approaches to linking ecosystem data to socio-economic data
 - Development of different dissemination techniques especially maps
 - Articulation of potential indicators



Priority #4: Linking to socio-economic data

- SEEA's objective is to bring environmental and economic information together
- Challenge to ensure that the spatial scales used to compile ecosystem related data are not aligned with those used for socio-economic data
- Many developments on geo-referencing socio-economic data underway
- Objective here is to examine ways to harness these developments and associated techniques around big data for use in accounting situations
- Close links needed to delineation of spatial units



Priority area #5: Valuation of ecosystem services

- This topic has much momentum in many places
- Text of SEEA Experimental Ecosystem Accounting highlights some important considerations from an accounting perspective
- Important to engage with economists to reach common understanding of potential methods and relevant assumptions
- Important links also to developments at the corporate level in integrating values of ecosystem services in business accounting frameworks



Medium to longer term priorities

- Accounting concepts
 - Degradation – valuation and allocation
 - Integration of ecosystem values into standard accounts and balance sheets (links to wealth a/c)
 - Treatment of expenditures on ecosystems (incl PES)
- Connections between ecosystem services and ecosystem condition
 - Often seen as competing approaches
 - SEEA EEA sees clear links but they are complex and non-linear
- Aggregation and ecosystem-wide indicators
 - Most challenging aspect: needs to build and combine all other research and testing work



Management and governance proposals

- Recognise multi-agency requirements and harnessing existing knowledge
- Under the auspices of the UNCEEA
- Key aspects of the proposals
 - Small steering committee
 - Co-ordination and reporting
 - Forum of experts
 - Building connections and networks
 - Targetted Technical Expert Groups (TEG)
 - Providing technical guidance
 - Identification of research and testing opportunities
 - Allocation of resources
 - Future international conference



Possible TEGs

- **#1: Geospatial data, land classifications and units** (closely linked with the expert group on geo-spatial information established by the UN Statistical Commission)
- **#2: Physical measures of ecosystem services and ecosystem condition**
- **#3: Valuation techniques and approaches to aggregation** (closely linked with WAVES-PTEC and TEEB)
- **#4: Presentation and policy linkages** (closely linked with WAVES-PTEC and TEEB)
- **#5: Integrated accounting issues** (links with London Group on Environmental Accounting and National Accounts fora)



Possible timing of proposals

- Sept 2013: Establish steering committee and forum of experts
- Nov 2013: Establish TEGs and initial research questions
- Nov 2013: Meeting of forum of experts
- May 2014: Interim reports of progress
- Oct 2014: TEGs reports on key findings and recommendations
- Oct 2015: International conference



Questions for UNCEEA

- Comments on priorities
 - Short to medium term
 - Medium to longer term

- Comments on governance proposals
 - Steering committee
 - Establishment of TEG
 - Use of forum of experts and international conference for discussion and consultation