



INTRODUCTION TO THE SEEA EXPERIMENTAL ECOSYSTEM ACCOUNTING

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Outline

- Why an accounting approach?
- Overview of the System of Environmental Economic Accounting (SEEA)
- SEEA revision process
- Status of SEEA implementation









2030 Sustainable Development Agenda and the SEEA

Sustainable Development Policy

Evidence Based

Integrated

Integrated Information System

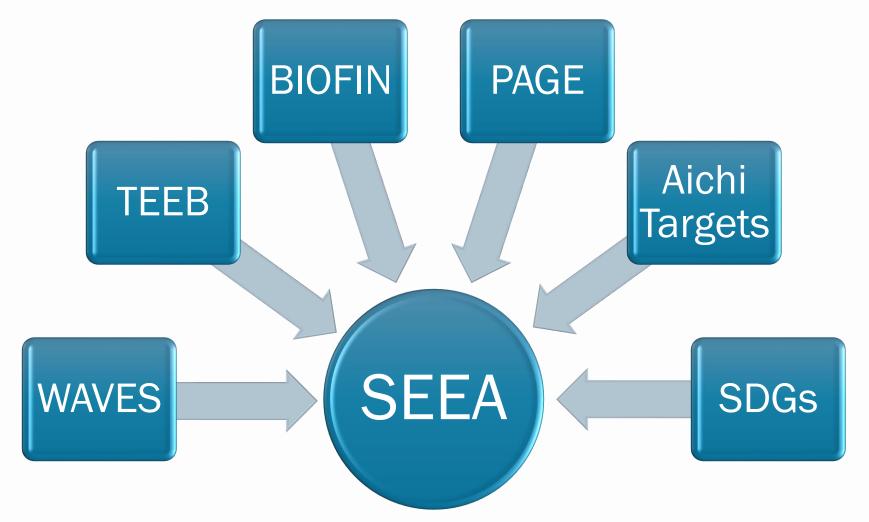
Applies a uniform standard approach

Integrates environmental, economic and social information

Captures synergies and trade-offs



SEEA and other initiatives







Overview of the SEEA EEA



The System of Environmental-Economic Accounting (SEEA)

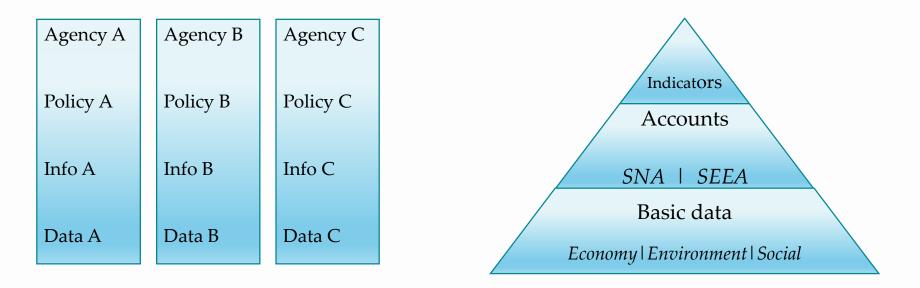
An internationally agreed statistical framework to measure the environment and its interactions with economy.

- The SEEA Central Framework was adopted as an international statistical standard by the UN Statistical Commission in 2012
- The SEEA Experimental Ecosystem Accounting complement the Central Framework and represent international efforts toward coherent ecosystem accounting
 - Technical Recommendations (2017) present updates and extensions of ecosystem accounting concepts, methods and structure, and providing practical guidance on its implementation
- SEEA EEA Revision by 2020





SEEA: From Silo approach to Integration







Natural Capital Accounting

Individual environmental **assets & resources:**

Timber Water Soil Fish



Ecosystems: Biotic and abiotic elements functioning together:

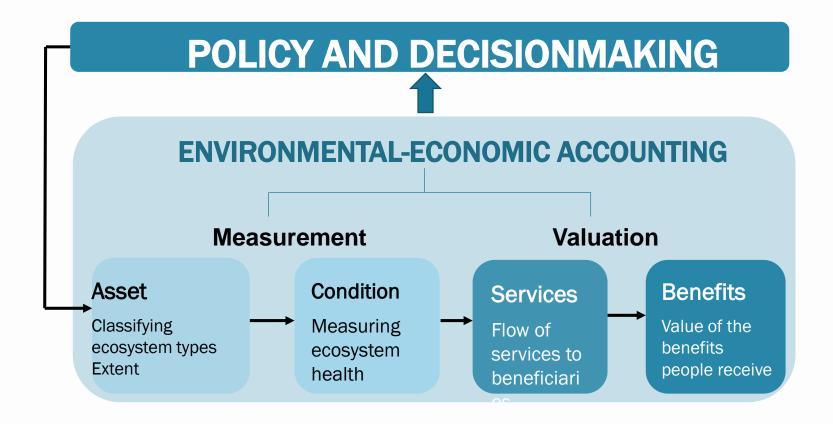


SEEA Central Framework (SEEA-CF) starts with economy and links to physical information on natural assets, flows and residuals

SEEA Experimental Ecosystem Accounting (SEEA-EEA) starts with ecosystems and links their services to economic and other human activity **Together**, they provide the foundation for measuring the relationship between the environment, and economic and other human activity

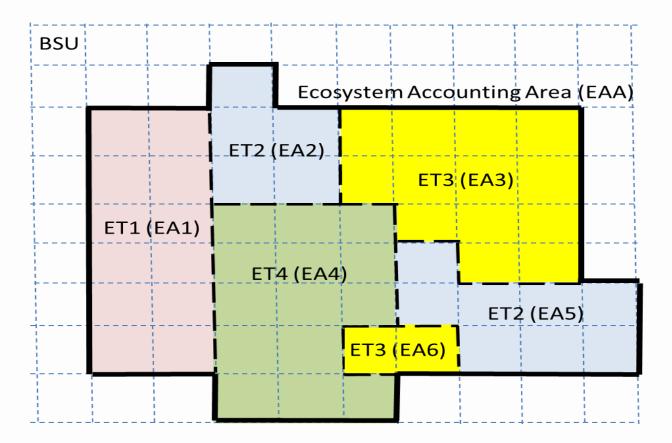


SEEA-Ecosystem Accounting





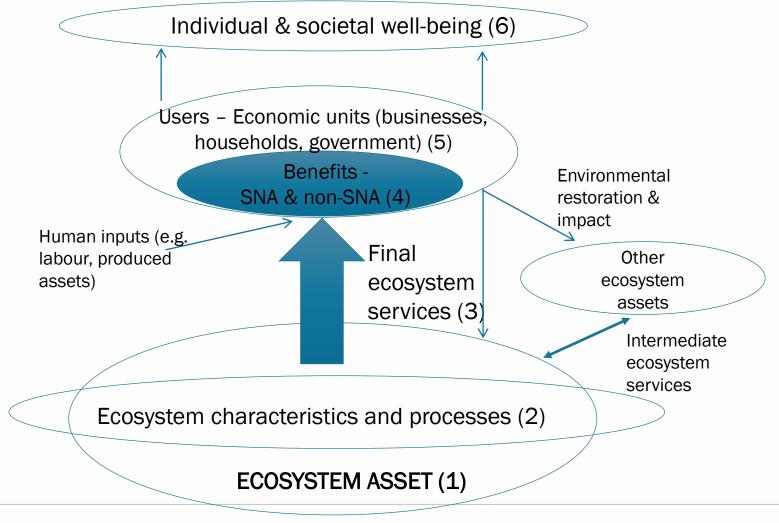
Delineating ecosystem assets



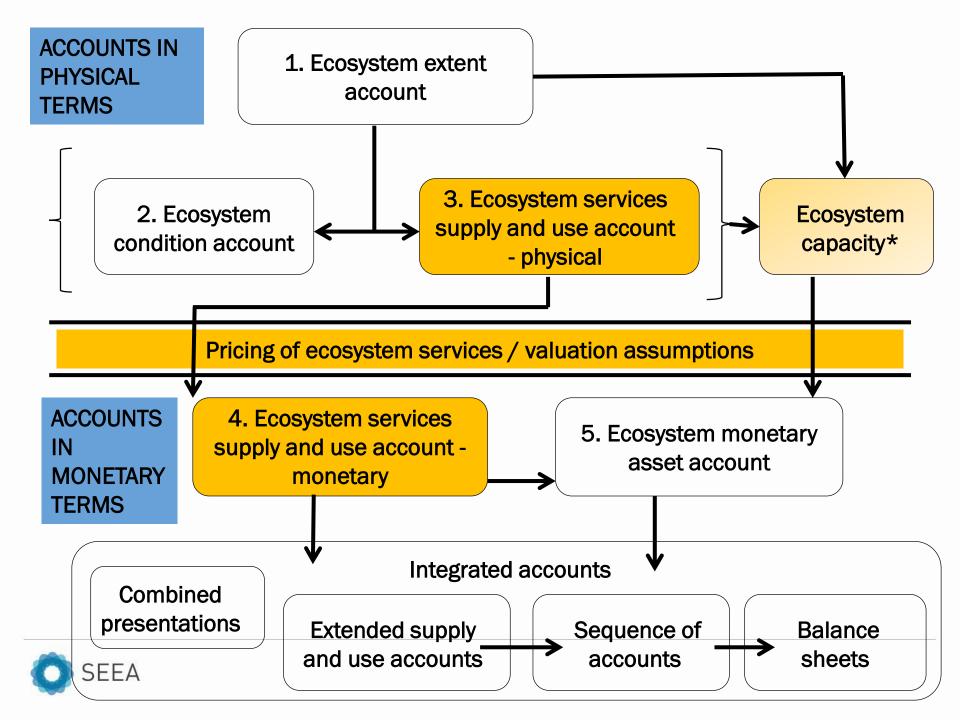
Stylised presentation of six separate Ecosystem Assets (EA) of four different Ecosystem Types (ET)



Full ecosystem accounting model







SEEA EEA: Background

- Complements SEEA Central Framework with focus on the ecosystems perspective
- Developed as part of broader process of revising SEEA 2003
- Integrated statistical framework for accounting for ecosystem assets and associated ecosystem services
- Not a statistical standard "Experimental" for now
- "Technical Recommendations in support of the System of Environmental-Economic Accounting 2012–Experimental Ecosystem Accounting" published in 2017



• SEEA EEA Revision



Key features of the SEEA EEA

- Part of official statistics
- Uses an accounting approach to organize information
- Close link with the SNA
 - > Agreed measurement boundaries, terms, definitions, classifications, accounting structures, etc.
 - > Common language
- Close link with the SEEA Central Framework
- Conceptual document
- Spatially explicit, can be applied at different scales, national, catchment, individual ecosystem





SEEA EEA Revision process



Revision of the SEEA Experimental Ecosystem Accounting

- Elevation to an agreed methodological document
- Engagement with various stakeholders
- Obtaining buy-in
- Timeline by end of 2020 endorsement by UN Statistical Commission by March 2021
- Process aligned with the Post-2020 biodiversity framework, review of SDG and Climate change process
- Seek for broad involvement of partners and experts in the process

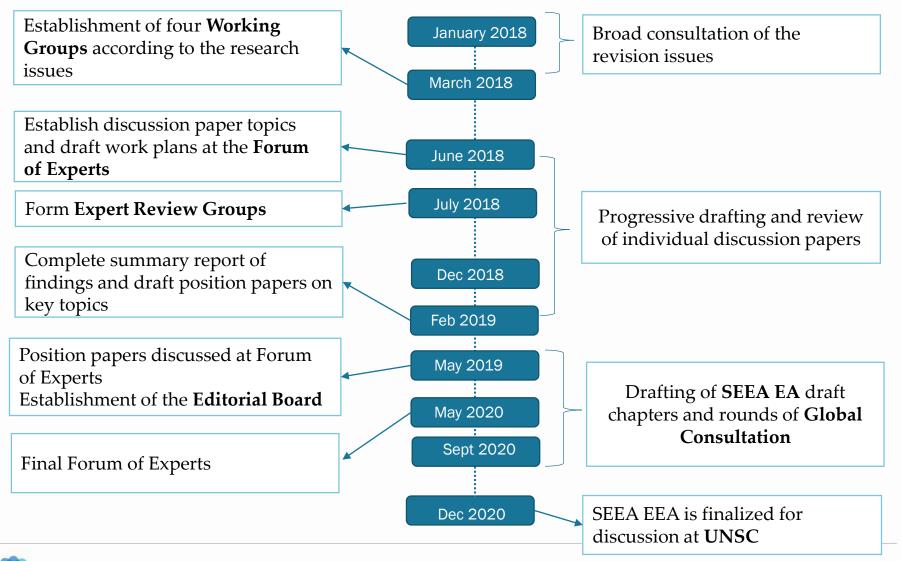


Research agenda for the revision

- Revision structured around **four research areas**:
 - > **Spatial areas**: Classification of ecosystem types
 - > Ecosystem condition: Characteristics and indicators of ecosystem condition
 - > Ecosystem services: The description and classification of ecosystem services
 - > Accounting treatments and valuation:
 - Valuation concepts for ecosystem services and ecosystem assets
 - Valuation methods for key ecosystem services
 - Accounting for ecosystem capacity, degradation and enhancement
- There is also a number of **crosscutting domains**, such as oceans and marine ecosystems, freshwater ecosystems, urban ecosystems, etc..
- Testing and experimentation of specific topics (e.g. SDG indicator 6.6.1 on freshwater extent and 6.3.1 on land degradation, etc.)



Revision process: keystones & timeline

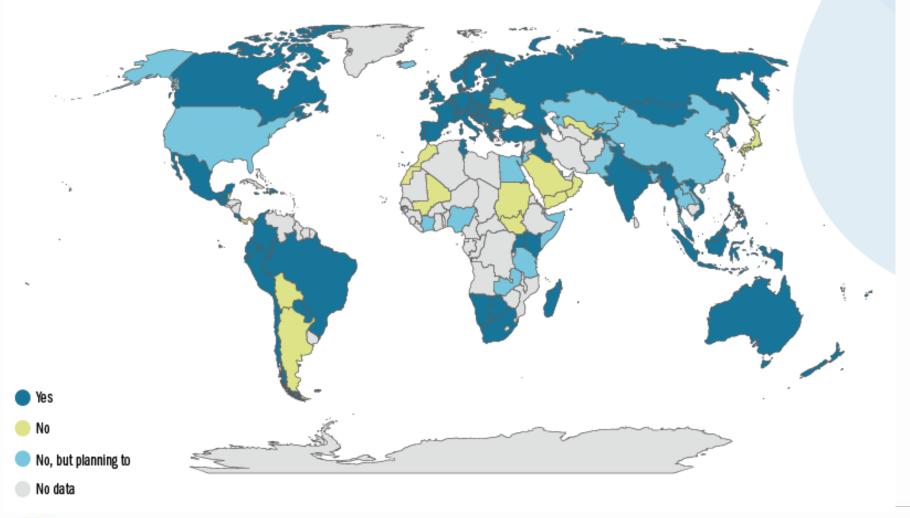




Status of implementation



80 countries and counting SEEA Around the World



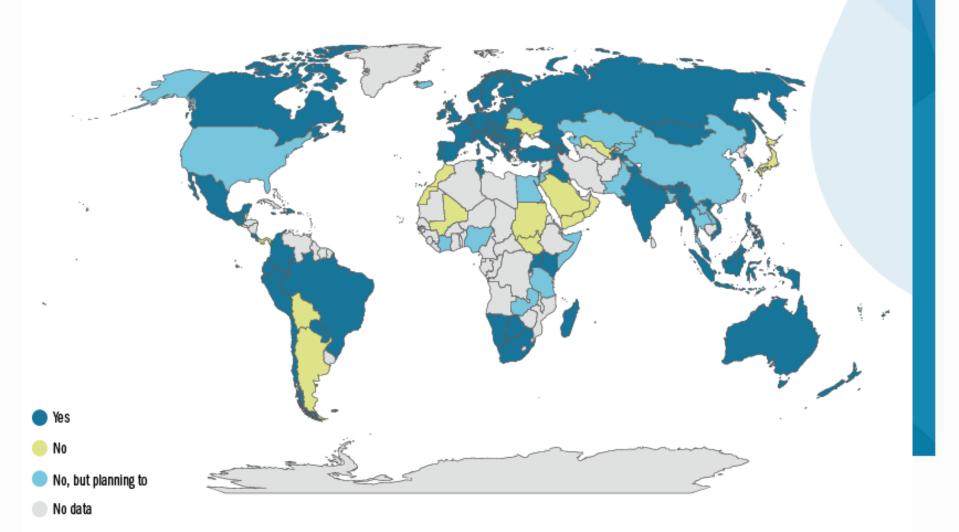


System of Summary of results



Accounting





THANK YOU

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