System of Environmental Economic Accounting

Session 5: Presentation on the Guidance on Biophysical Modelling for Ecosystem Accounting

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Ecosystem accounting manuals under development

- Developed under the NCAVES project
  - > Workstream on developing methods and guidance
- Deliverables on:
  - > Guidelines for biophysical modeling
  - > Guidelines for valuation
  - > Guidelines on scenario analysis
- Value proposition / niche:
  - > Lots of manuals exist, but few (if any) cater to principles + needs of accounting
  - > Provide easy entry points (e.g. "how to go about measuring / valuing ES x, y")
  - > Be consistent with and support implementation of revised SEEA EEA
- Editorial boards have been established, if you would like to participate, reach out to seea@un.org

Process

- Editorial board:
  - Chair: Rosimeiry Portela/Daniel Juhn (Conservation International)
  - Editor: Stephanie Tomscha (Victoria University Wellington)
  - Members: Glenn Marie Lange (World Bank), Justin Johnson (University of Minnesota), Ken Bagstad (USGS), Francois Soulard (Stats Canada), Michael Bordt(UNESCAP), Bethanna Jackson (VUW), Lars Hein (WUR), Bram Edens (UNSD - Project management / secretariat)
- Consultation process
  - Under the remit of SEEA EEA Technical Committee
- Audience: statisticians / policy makers with interest to compile accounts
- Time frame: first full draft Dec. 2019; Final draft April 2020
- If you would like to contribute/ be involved, reach out to seea@un.org

Scope

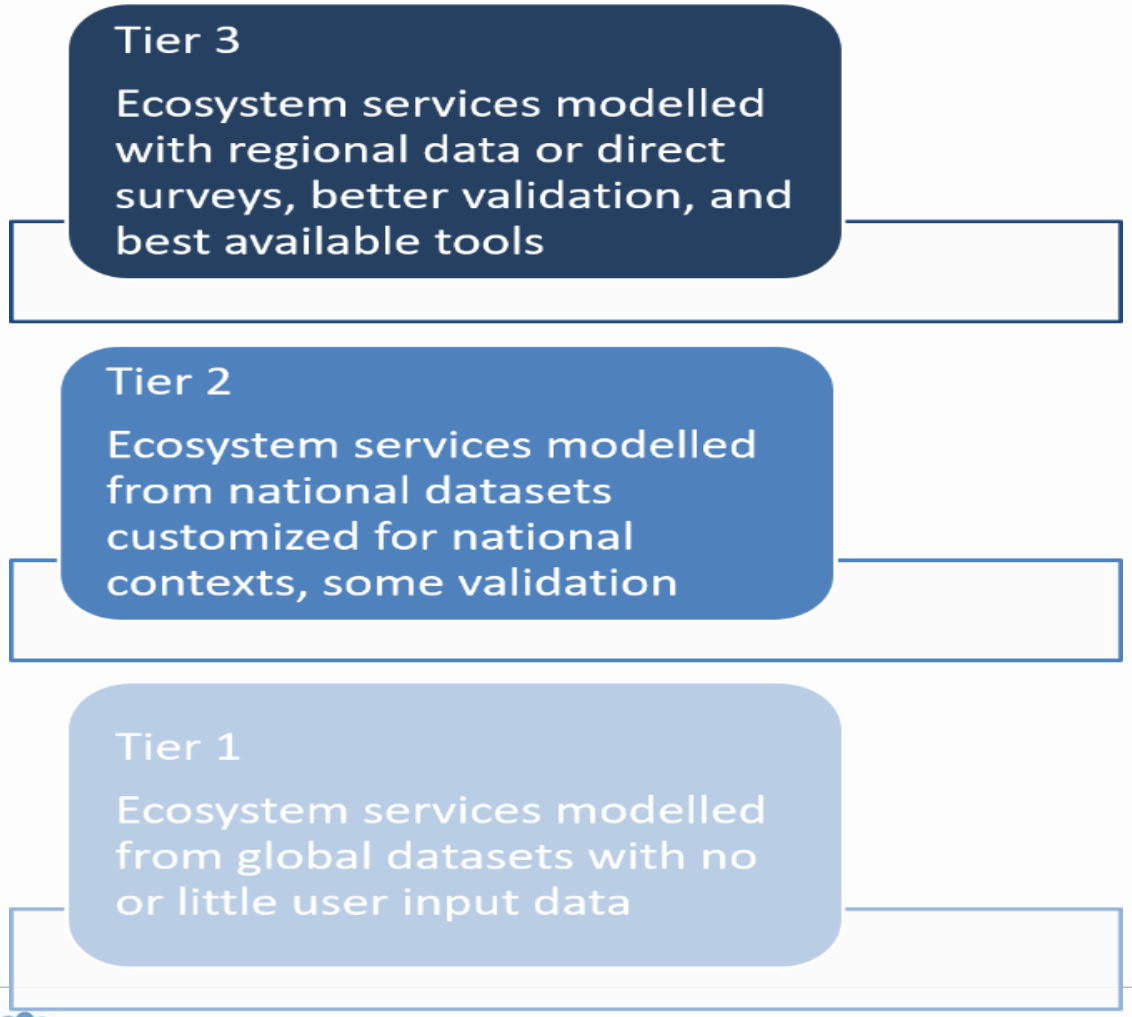
1) How can we **use** biophysical modeling to produce extent, condition, and ecosystem service accounts?

2) How do we ensure reporting produced from biophysical modeling is **accurate**?

3) What is the **future** of biophysical modeling of ecosystem services?

4) How can organizations **get started** with biophysical modeling for compiling accounts?

Tiered approach



- Recognizing that **countries differ** in terms of data availability, technical capacity and resources
- Higher tiers will also **increase in spatial resolution**

Guideline outline

- Introduction
- Overview of modeling
  - Approaches and techniques
  - Platforms and tools (e.g. InVEST, ARIES etc.)
  - Cartography essentials
- Modeling for extent accounts
- Modeling for condition accounts
- Modeling ecosystem services (for selection of 10-15 main ES)
  - Tiers + country examples
- Accuracy / uncertainty
- How to get started
- Applications
- Overview of available global data sources (-> living document)

THANK YOU

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