

A satellite night view of Earth showing city lights and coastlines. A large green rectangular box is overlaid on the right side of the image, containing the event title and dates.

Forum of Experts on SEEA Ecosystem Accounting 2021

7 & 8 Dec 2021, online

Bruno Smets



Context

Standardization process

**System of Environmental-Economic Accounting
Ecosystem Accounting**

United Nations

DRAFT FOR GLOBAL CONSULTATION

GUIDELINES ON BIOPHYSICAL MODELLING FOR ECOSYSTEM ACCOUNTING

Version 2.0

implement



feedback



Implementation process @EU (INCA)

https://ec.europa.eu/environment/nature/capital_accounting

Accounting for ecosystems and their services in the European Union (INCA) 2021 edition

Final report from phase II of the INCA project aiming to develop a pilot for an integrated system of ecosystem accounts for the EU

EU Regulation N691/2011 amendment on Ecosystem Accounting

<https://ecosystem-accounts.jrc.ec.europa.eu/>

INCA

Home About Publications News Data Catalogue Map Tool Glossary Contact Us

Map Tool

INCA offers EU ecosystem accounts, maps and tables that allow exploring the contributions of ecosystems to people and the economy

Ecosystem Services

Data and maps of the potential, use and demand for ecosystem services

Ecosystem Extent

Information about the total extent or area of different ecosystem types in an accounting area.

Ecosystem Condition

Accounting for ecosystems and their services in the European Union.

Accounting Tables

Supply use tables per ecosystem service for different years at EU level

National Data

Potential, flow and demand of ecosystem services at national level

EU Policies



support





FAIR & INTEROPERABILITY

- ✓ Findable
- ✓ Accessible
- ✓ Interoperable
- ✓ Re-usable

INCA PILOT

EU REGULATION

'rich'
EU data-sets

Support in INCA Phase-3



1. EU methodological **Guidelines**
2. Production **Tools**
3. **Validation** Methods&Tools
4. Demo **policy use**





PILOT -> OPERATIONS

presenters' personnel opinion

- **Close the 'gap'**
 - *EU EA guidelines documents (TF)*
- Need **flexibility** in **Tools** (EcoTypes, local data, etc.)
 - *INCA QGIS plug-ins with py3 scripts*
 - *'Leaving nobody behind'*
- Models are **driven by data** availability
 - *'default' pre-processed datasets at EU-MS level*
 - *Requires more R&D (multi-Tier)*
- **Multi-disciplinary** takes time (change)
 - *Integration of EO 'statistical accepted' data (AccoRD)*
 - *Expertise on use of cloud (open-API, program language, metadata, ...)*

Type of User	Needs	Tool interaction	Required skills
Basic User	Only source for national level ecosystem accounts / cross validation of national models	Consultation and use of final results at national level (tabular data)	Consultation and processing of tabular data (e.g. MS Excel)
Proficient User	Starting point to develop improved national level ecosystem accounts	Operate the tools on a national level and replace input data with national data sources	Consultation and processing of spatial data (e.g. GIS software – QGIS, ArcGIS)
Expert User	Starting point to develop national ecosystem accounting procedures and perform R&D (e.g. JRC)	Operate the tools to replace formulas (open source code) and input data	Programming skills (e.g. python, ...)



openEO Platform



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