



TSC Knowledge Hub Target 11

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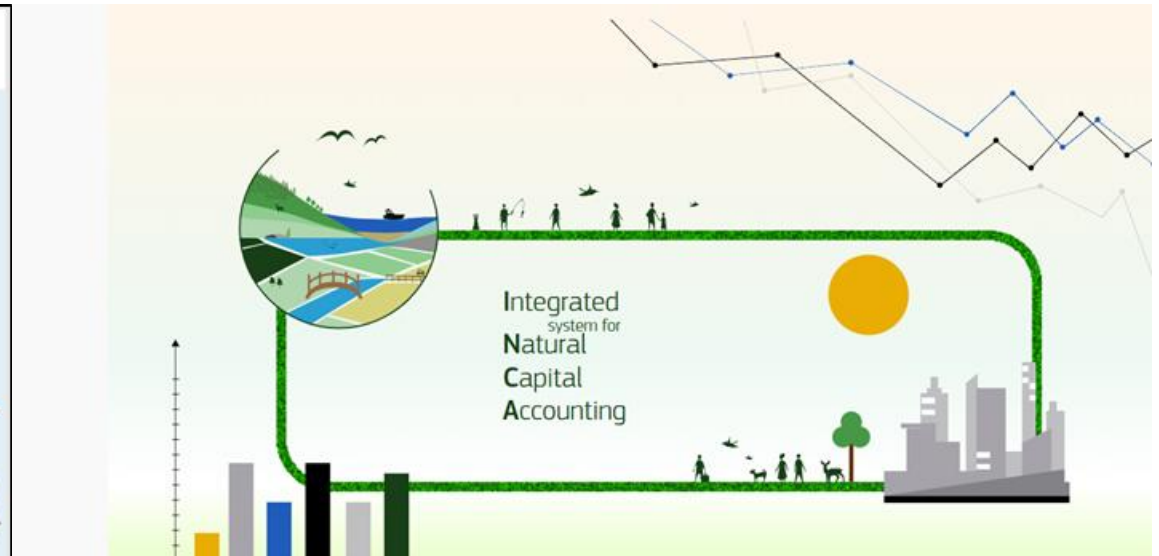
LA NOTTE Alessandra



[European subregional TSC Website single-entry-point](#)

Contact us: EU-SUBREGIONAL-TSC@ec.Europa.eu

JRC INCA team support on Target 11 Knowledge hub



Target 11

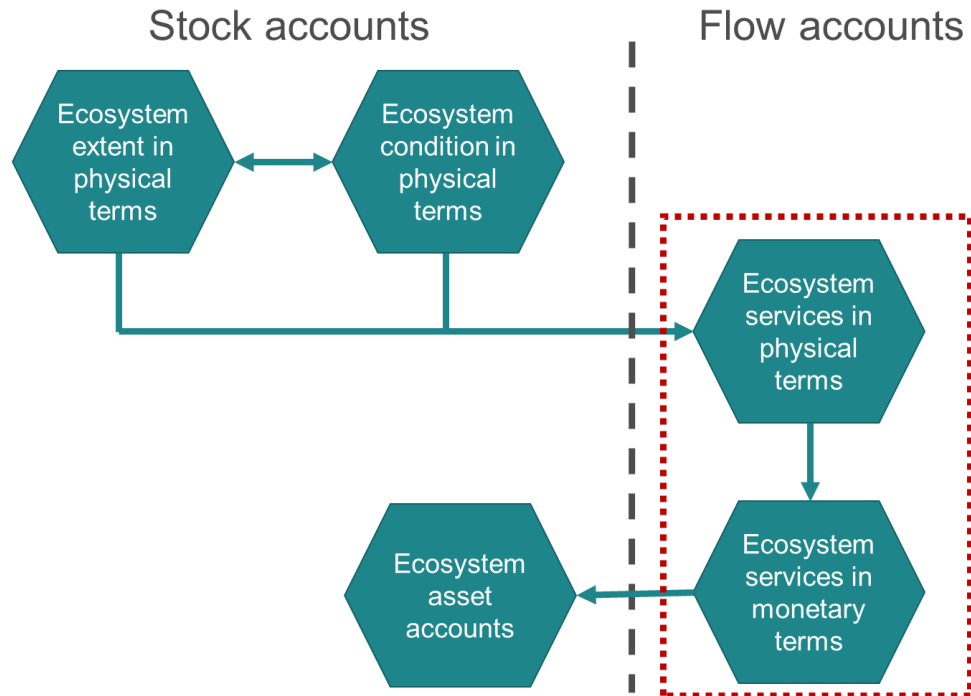
Restore, Maintain and Enhance Nature's Contributions to People

Restore, maintain and enhance nature's contributions to people, including ecosystem functions and services, such as regulation of air, water, and climate, soil health, pollination and reduction of disease risk, as well as protection from natural hazards and disasters, through nature-based solutions and/or ecosystem-based approaches for the benefit of all people and nature.

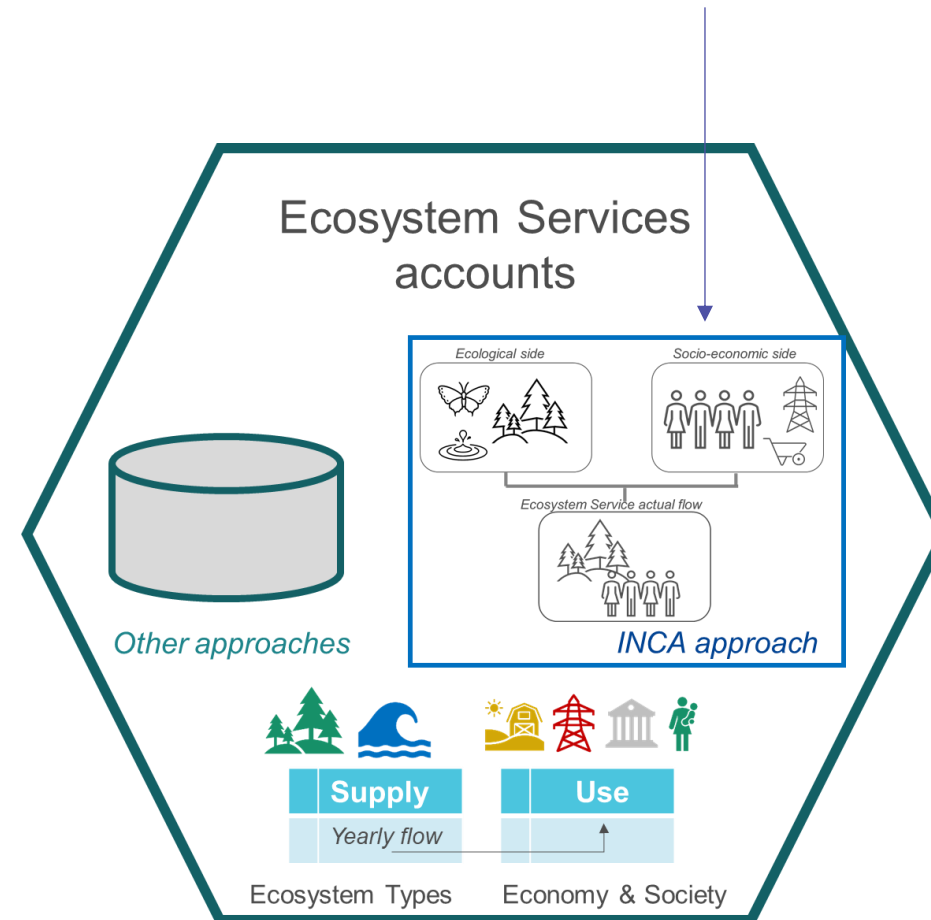


INCA project in the context of SEEA EA

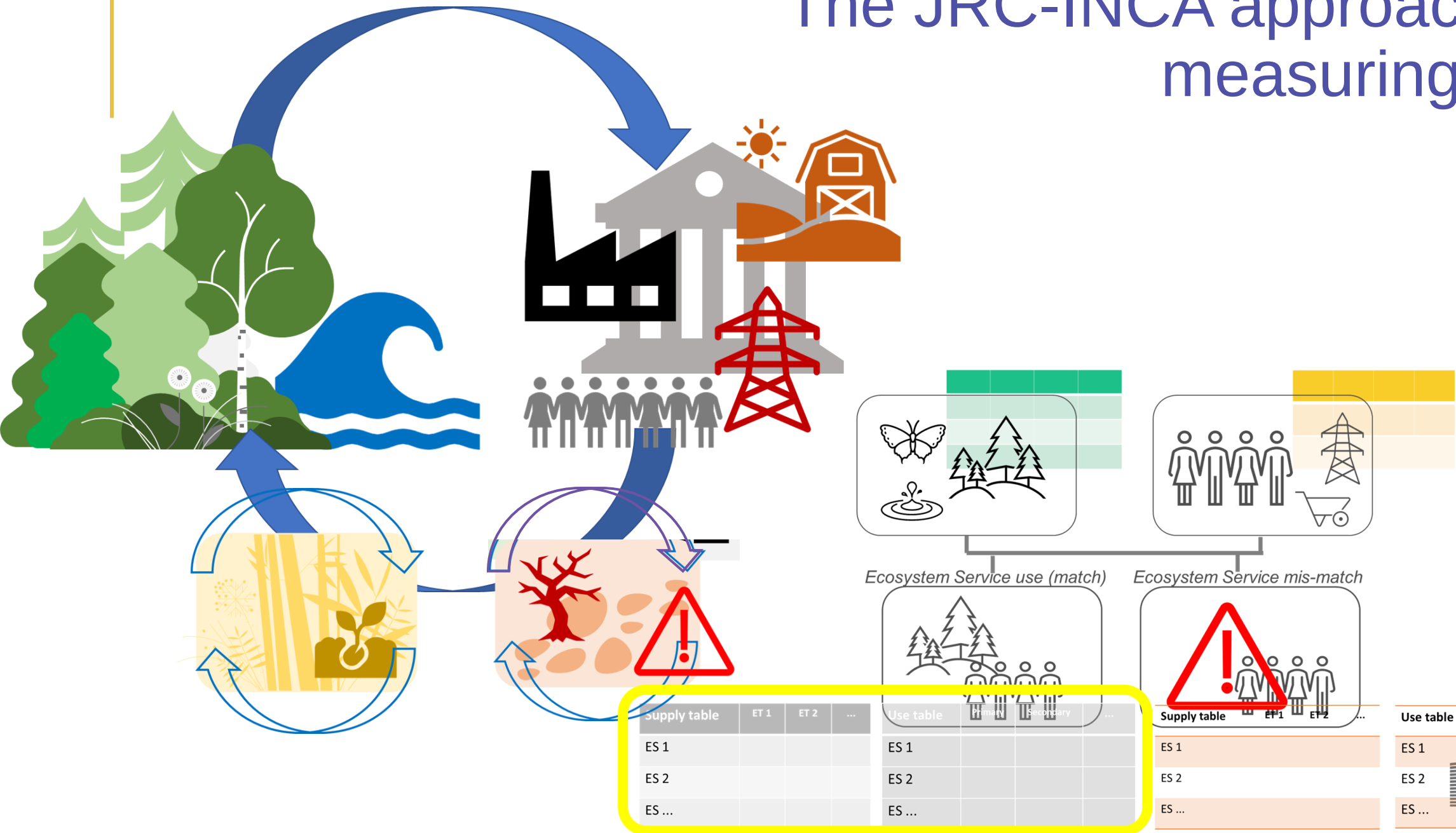
SEEA EA general framework



INCA operational procedure



The JRC-INCA approach in measuring ES



INCA fit to policy developments

Regulation
2024/3024 amending
(EU) No 691/2011

- **Introducing new environmental economic accounts modules**

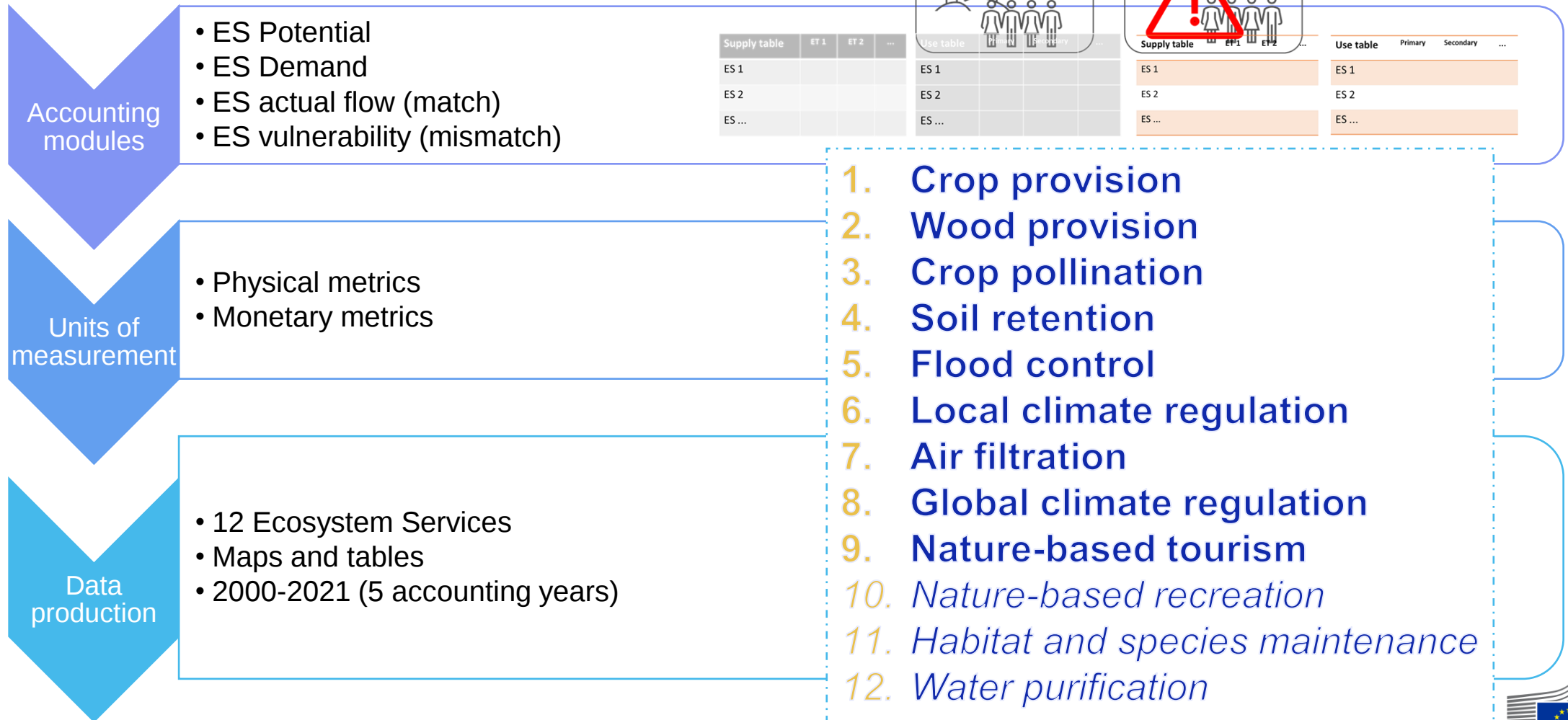
Modules Overview

- **Ecosystem extent accounts**
- **Ecosystem condition accounts**
- **Ecosystem services accounts (7 ecosystem services)**

Looking Ahead

- **By 2027: Member States Report Yearly on Ecosystem Service Accounts**

The JRC-INCA data production



GBF Headline indicator B.1: Ecosystem Services:

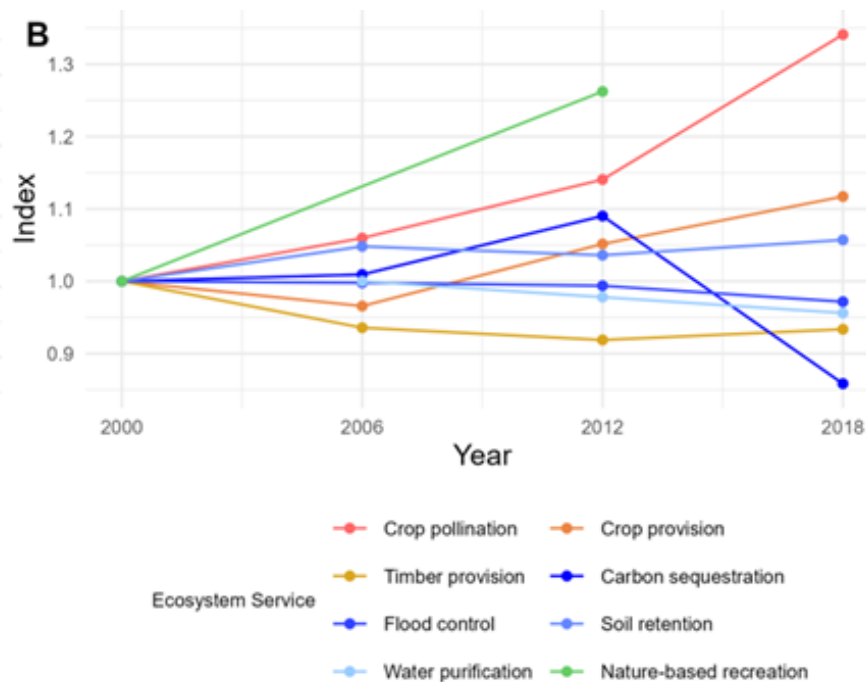
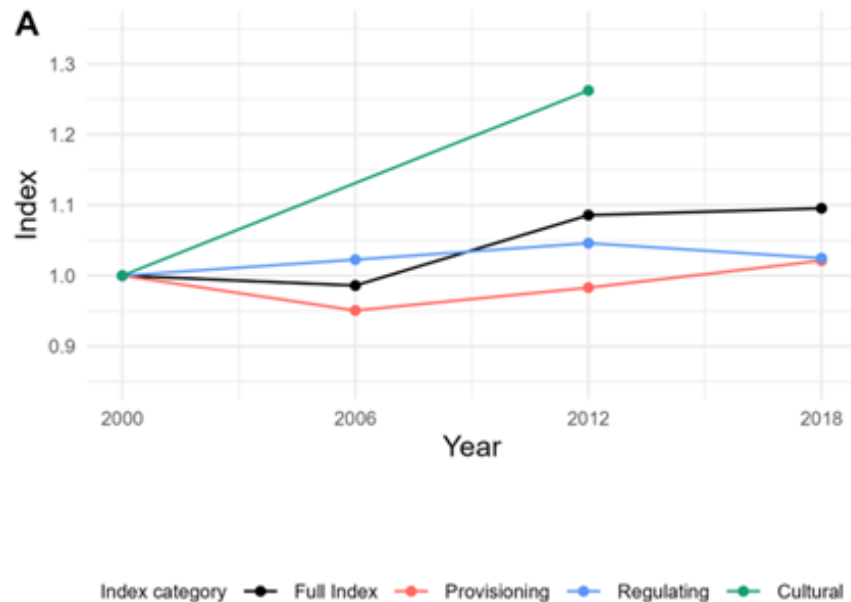
*B.1 indicator: defined as the **average rate of change** in the provision of a set of ecosystem services in particular time period compared to a baseline year, for a country or globally*

Proposed methodology: geometric mean

Data: INCA data of 2018 accounting series
Scope: EU-27

Application: B.1 indicator for addressing Target 11

<https://publications.jrc.ec.europa.eu/repository/handle/JRC141728>



INCA platform and INCA tool

European Commission
Energy, Climate change, Environment

INCA Platform

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Integrated system for Natural Capital Accounting

Ecosystem services map viewer

START

Accounting tables

-- Select --

Complementary tables

-- Select --

EU Aggregates

INCA tool

Learn more

About Publications Data catalogue

QGIS - Untitled Project - QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh Processing Help

INCA

Edit metadata Run Continue existing run About

Working directory: G:\INCA Tool 4

Study Scope

Year: 2021

Data areas

☒ NUTS-2021 regions NUTS-0

☐ Custom shape

Reporting areas

☒ NUTS-2021 regions NUTS-0

☐ Custom shape

Selected regions: IT

Land cover map: G:\ACC\W20\CLC2018ACC_V2018_20.tif

Ecosystem translation: INCA default mapping for CORINE data

Ecosystem Service: Soil Retention

Run name: soil_retention

C-Factor: G:\2018_EU27_100m_EPSG3030.tif

K-Factor: G:\27_500m_EPSG3035_filled.tif

LS-Factor: G:_RUSLE_data\ls-factor_IT.tif

P-Factor: G:\27_500m_EPSG3035_filled.tif

R-Factor: G:_RUSLE_data\y-factor_IT.tif

Average soil formation factor: 1.40

Type to locate (Ctrl+K)

2,430,922,4,386,698 1:9,526,652 100% 0.0° Render EPSG:3035

Support from JRC INCA team

- **Capacity Building and Skills Development**

- Technical demand-driven support (e.g. training sessions or FAQs)

- **Processing of the B.1 Indicator for the EU-27**

- Reference value for comparison and validation

- **Access to Scientific Knowledge and Technical Tools**

- Knowledge sharing through INCA reports: https://ecosystem-accounts.jrc.ec.europa.eu/publications?title=&field_pub_type_value=reports
- Access to open source data : <https://ecosystem-accounts.jrc.ec.europa.eu/accounting-tables>
- Methodological guidelines: <https://ec.europa.eu/eurostat/web/environment/methodology#Ecosystem%20accounts>
- INCA tool (QGIS plugin): <https://ecosystem-accounts.jrc.ec.europa.eu/inca-tool>
 - Manual: https://ecosystem-accounts.jrc.ec.europa.eu/sites/default/files/2025-02/INCA_ToolPlugIn_UserGuide_2.2.1_final.pdf
 - Default input data

Key references

SEEA EA guidelines: https://seea.un.org/sites/seea.un.org/files/documents/EA/seea_ea_f124_web_12dec24.pdf

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

INCA Technical reports (ES accounts compilation):

- **Implementing a EU system of accounting for ecosystems and their services**
<https://publications.jrc.ec.europa.eu/repository/handle/JRC107150>
- **Ecosystem services accounting: Part I - Outdoor recreation and crop pollination**
<https://publications.jrc.ec.europa.eu/repository/handle/JRC110321>
- **Ecosystem services accounting - Part II Pilot accounts for crop and timber provision, global climate regulation and flood control**
<https://publications.jrc.ec.europa.eu/repository/handle/JRC116334>
- **Ecosystem Services Accounting – Part III - Pilot accounts for habitat and species maintenance, on-site soil retention and water purification**
<https://publications.jrc.ec.europa.eu/repository/handle/JRC126566>
- **Nature-based tourism accounting**
<https://op.europa.eu/en/publication-detail/-/publication/c9f47ec5-86b9-11ef-a67d-01aa75ed71a1/language-en>
- **Urban Ecosystem accounts following the SEEA EA standard: A pilot application in Europe**
<https://publications.jrc.ec.europa.eu/repository/handle/JRC133240>

LISBETH Technical reports (ES accounts applications):

- **Linking accounts for ecosystem Services and Benefits to the Economy THrough bridging (LISBETH): Part I**
<https://publications.jrc.ec.europa.eu/repository/handle/JRC120571>
- **Linking accounts for ecosystem Services and Benefits to the Economy THrough bridging (LISBETH): Part II**
<https://publications.jrc.ec.europa.eu/repository/handle/JRC130438>
- **Linking accounts for ecosystem Services and Benefits to the Economy THrough bridging (LISBETH): Part III**
<https://publications.jrc.ec.europa.eu/repository/handle/JRC141728>

Thank you

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