

EO 4 Ecosystem Accounting 2022



Accounting for Ecosystem Services vulnerability to map environmental risk



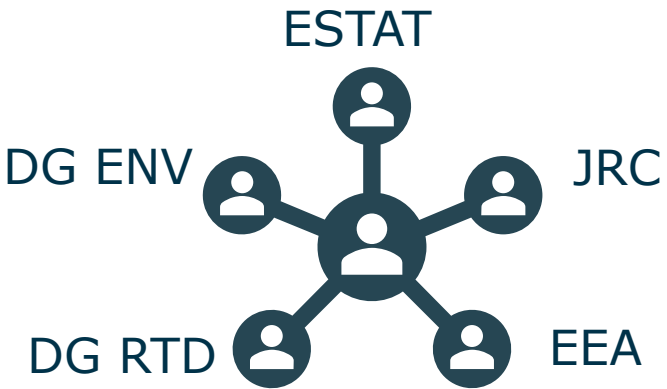
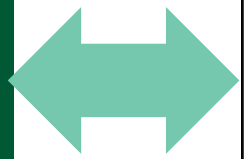
Alessandra La Notte, Ioanna Grammatikopoulou, Mayra Zurbaran-Nucci

Joint Research Centre of the European Commission

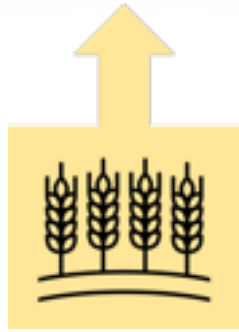
30 November 2022



The INCA project

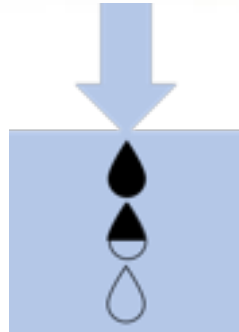


The INCA approach



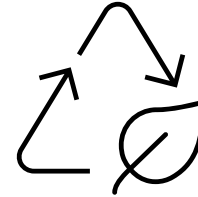
Source: provision

regeneration rate

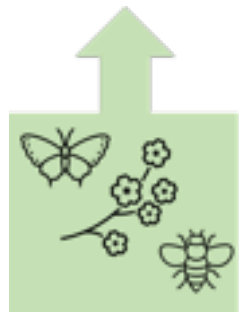


Sink

absorption rate



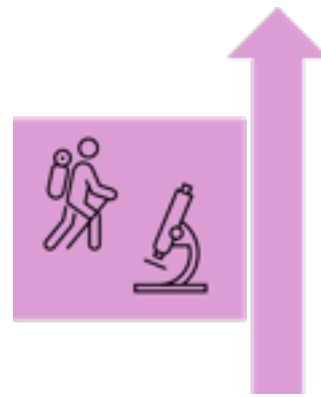
- *it is about the sustainable use of ecosystem services (thresholds)*
- *management practices matter*



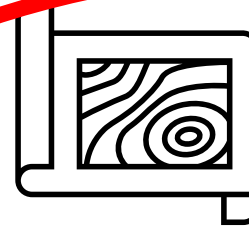
Source: suitability



Buffer



Information

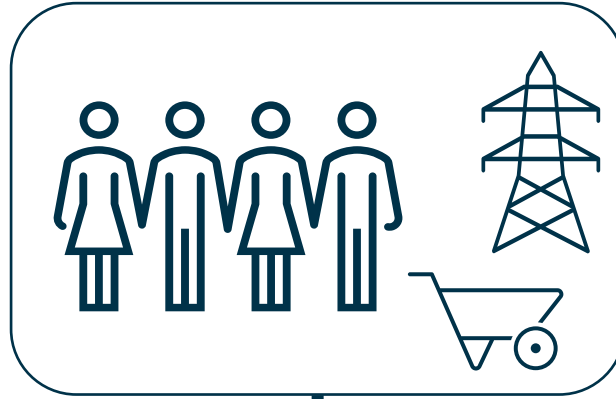
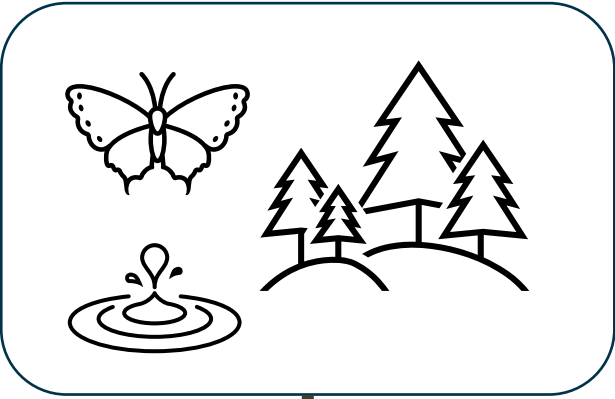


- *it is about presence/absence of ecosystems*
- *changes in land use matter*

The INCA approach

Ecological side

Socio-economic side

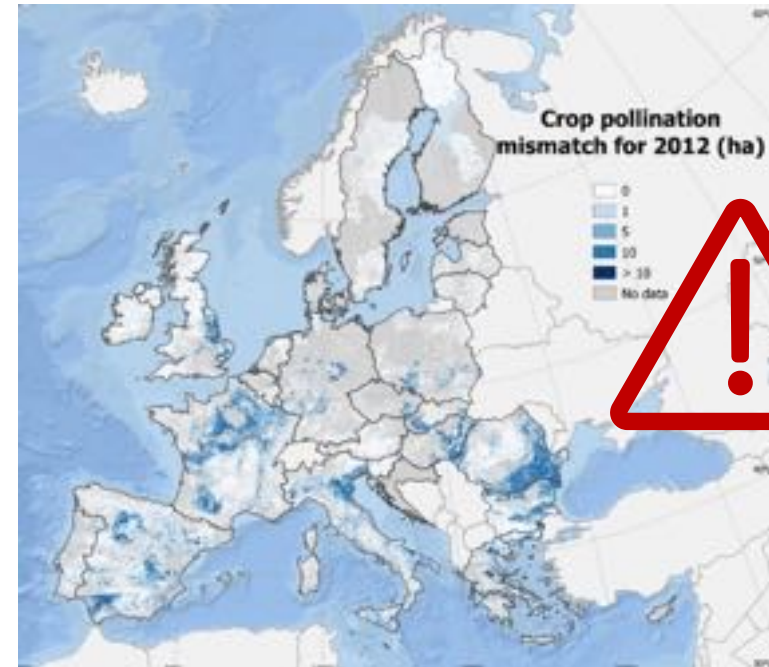
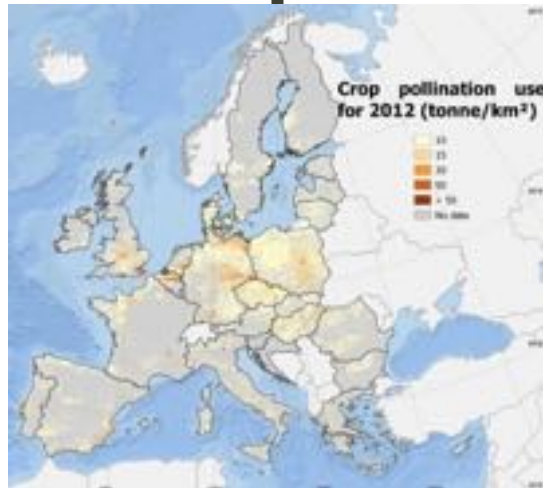
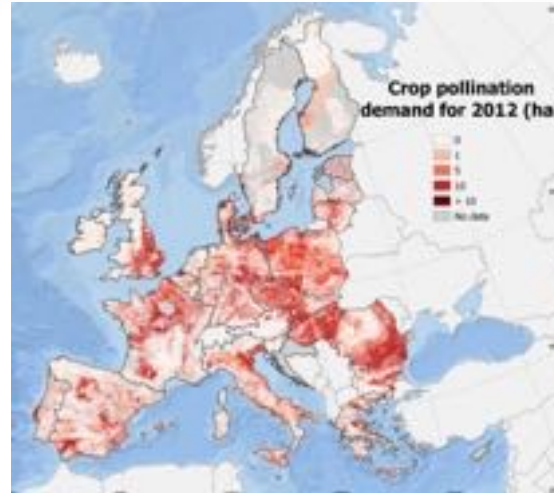


Match between the ecological and economic sides

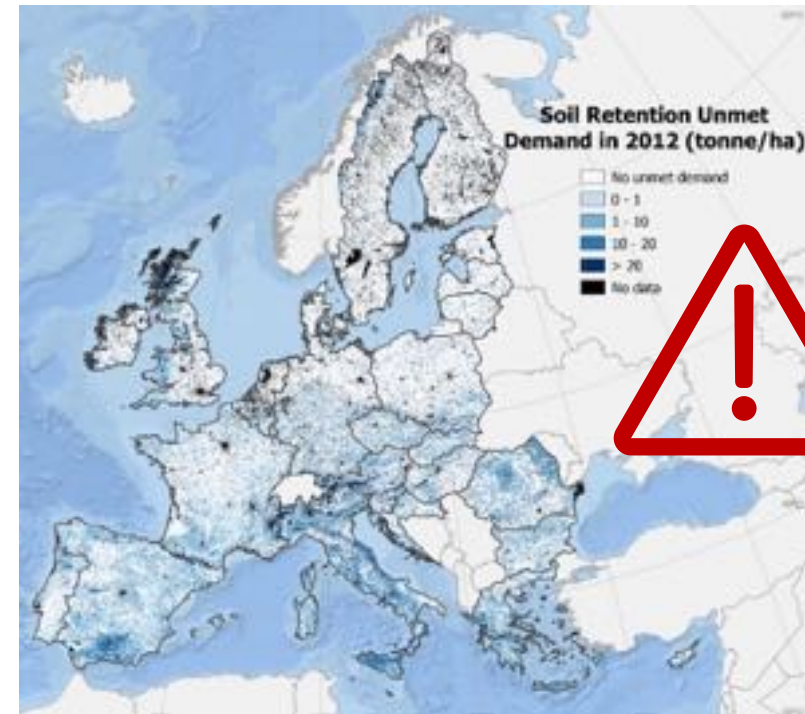
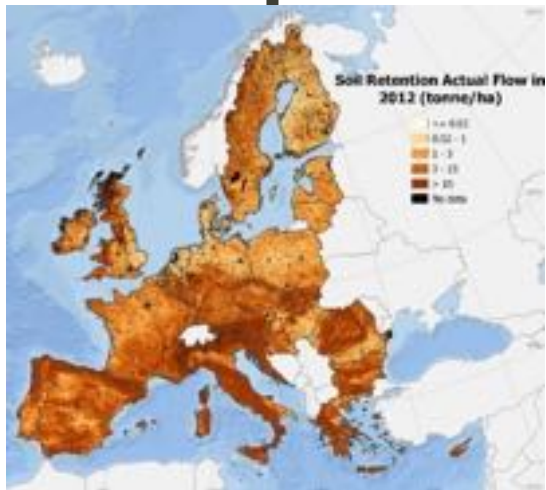
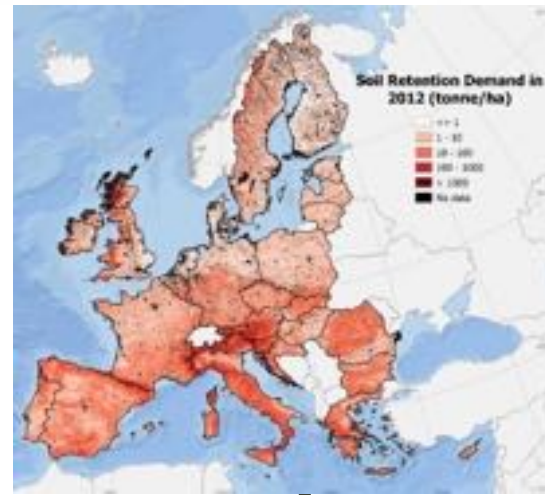
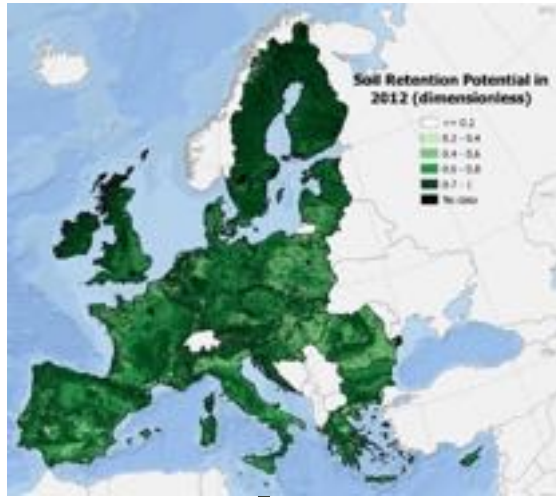
Supply table	ET 1	ET 2	...
ES 1			
ES 2			
ES ...			

Use table	Primary	Secondary	...
ES 1			
ES 2			
ES ...			

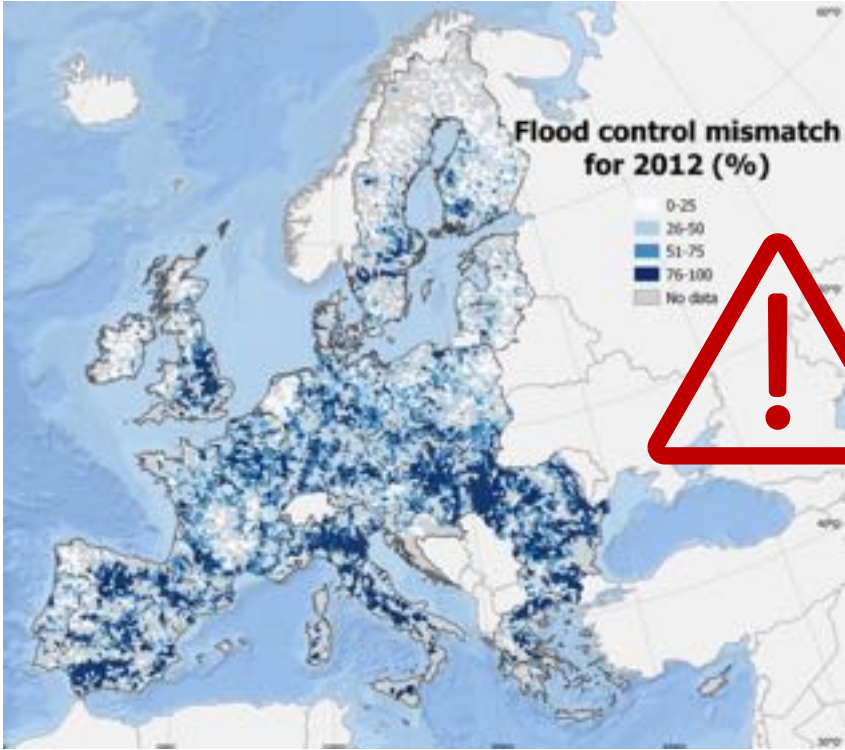
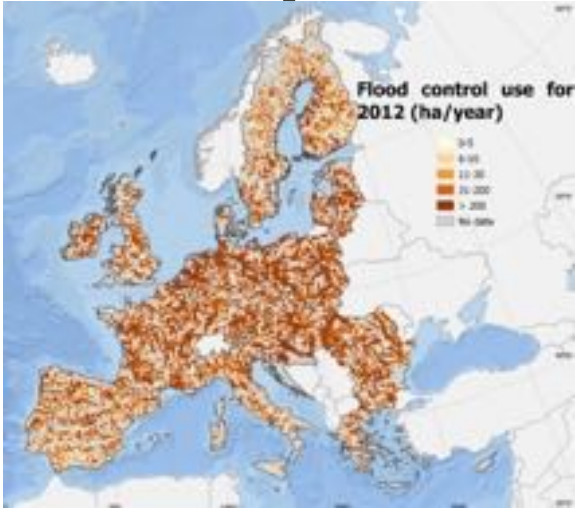
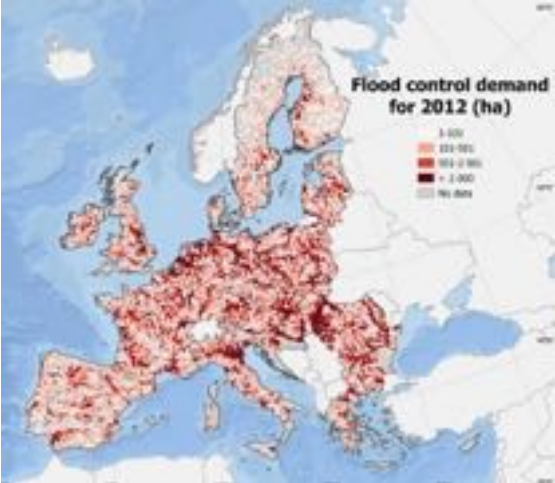
The vulnerabilities created by the unmet demand for crop pollination



The vulnerabilities created by soil erosion



The vulnerabilities created by lack of protection



INCA Platform

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How ecosystem services are assessed in INCA

The diagram illustrates the assessment process in INCA. It starts with two parallel paths: the 'Ecological side' (represented by icons of a butterfly, trees, and a pond) and the 'Socio-economic side' (represented by icons of people and a power line). Both paths lead to 'Ecosystem Service use'. From there, the process branches into two outcomes: 'Match' (represented by icons of trees and people) and 'Mis-match' (represented by a warning triangle over icons of people).

Ecosystem services map tool

START

Accounting tables
-- Select --

Complementary tables
-- Select --

News

Thank you for your attention