## DG ECFIN-OGWG workshop on natural capital measurement and modelling – input to session 1

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European Environment Agency

#### Approach to review of issues and advances presented:

- a) Brief initial comments on the presentations
- b) Review of knowledge needs for managing natural capital better
- c) Some personal comments on resource needs for natural capital knowledge base



#### **Brief reflections on the presentations I**

- 1) Approaches and data needs for modelling the contribution of natural capital to economic production (Döhring & Thum-Thyssen)
  - a) Well-structured & clear; some acronyms a challenge for non-economists
  - b) Slide 12: the 9 'ESTAT' ESS accounts overlap with 7 proposed in new EU ecosystem accounting module
  - c) Data needs review builds on perspective of macro-economic modellers, ie (simplified) aggregates at national level
  - d) Feedback: natural capital measurement requires very detailed bio-physical data

#### 2) SEEA accounts & their integration with national accounts (de la Fuente)

- a) Good review of historical development of SEEA & current status
- b) No explicit review of data foundation many SEEA accounts build on re-use of existing data (whether public or private activity records)
- c) Point to consider: ecosystem accounting requires <u>geo-spatial</u> data

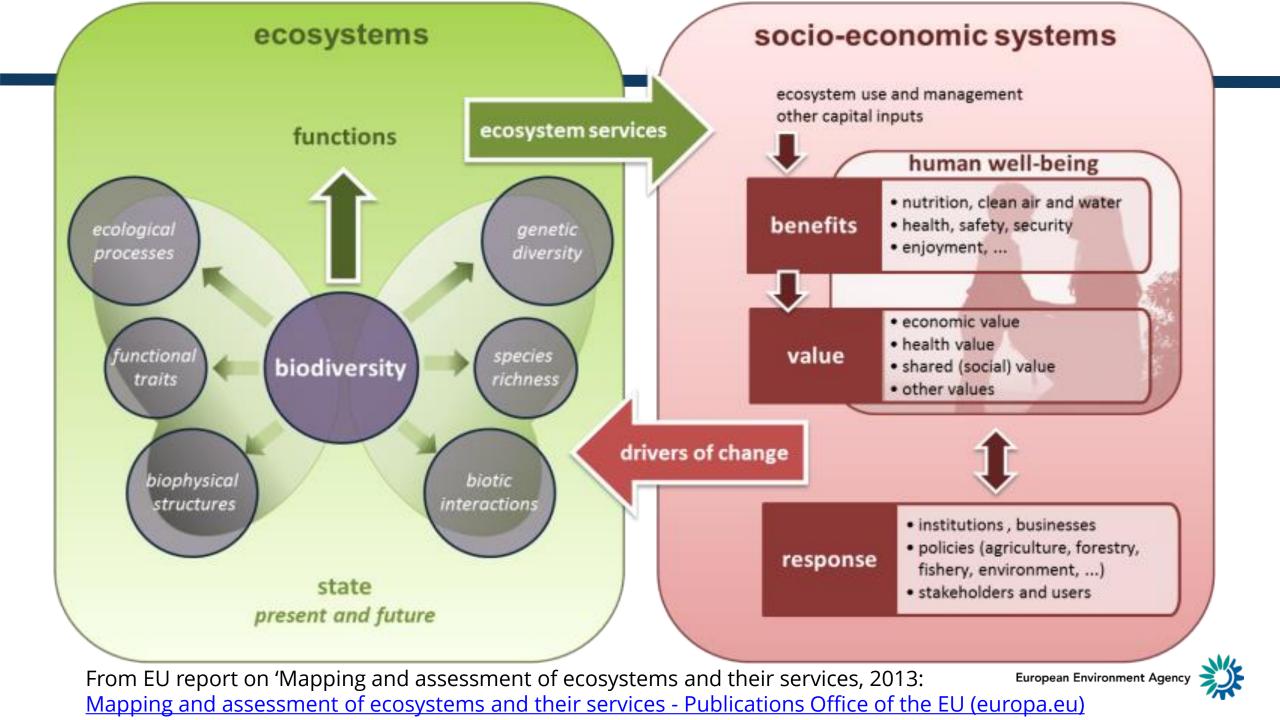


#### **Brief reflections on the presentations II**

#### 3) Measurement of ecosystem services (Tamborra & La Notte)

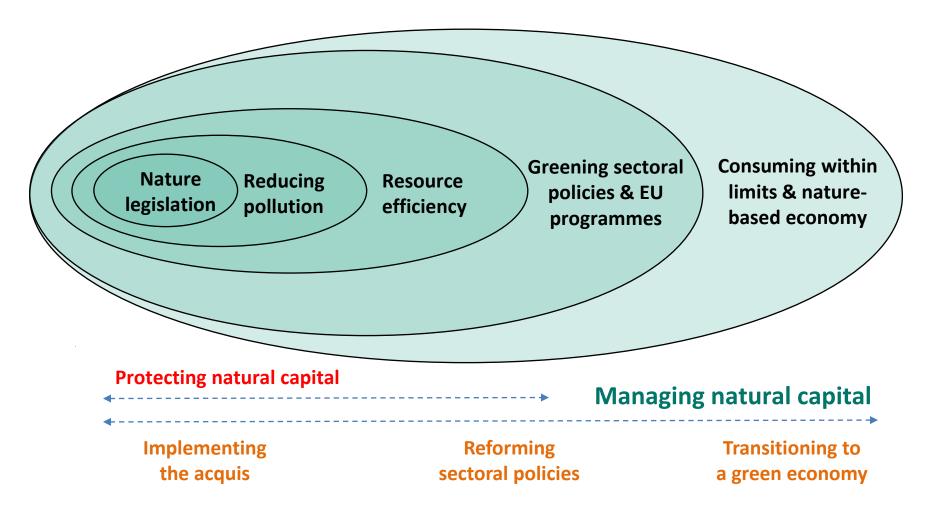
- a) A very comprehensive review of work by JRC in INCA project & beyond
- b) This is a world-leading effort though not yet complete or perfect : )
- c) Idea of 'ecosystem service vulnerability' a nice conceptual development
- d) Slide 11 shows input input <u>variables</u> to modelling but actually not all input <u>data sets</u> (a wide range of mostly geo-spatial data, as far as available)
- e) 'ESS actual flow' as interesting new application strengths & weaknesses
- f) Conclusions presented in slides 18 23 is the data foundation good enough?





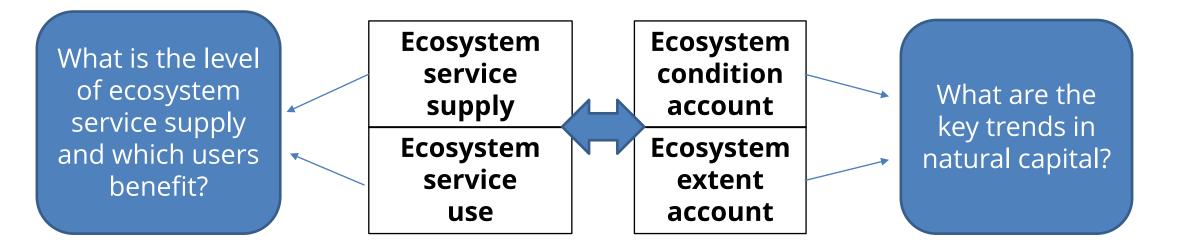
#### **Different aspects of managing natural capital**

### require different policy approaches



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# **Analytical framing from EEA report on 'Natural capital accounting in support of policy-making'**

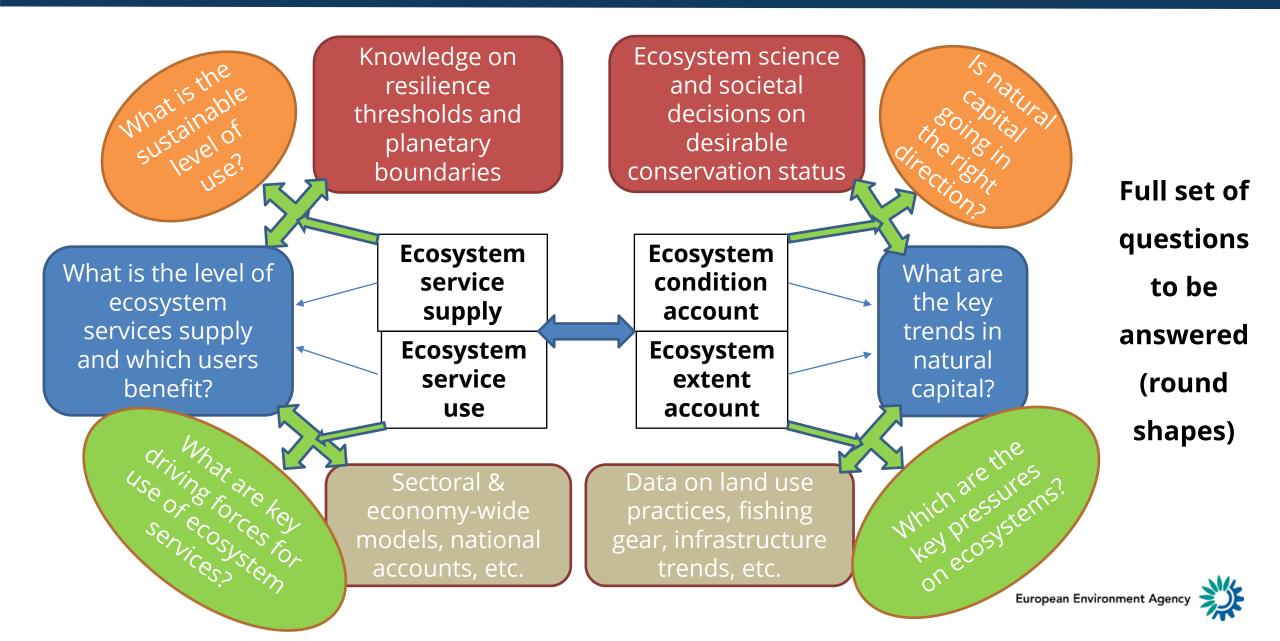


Blue shapes represents core outputs and insights from ecosystem accounts

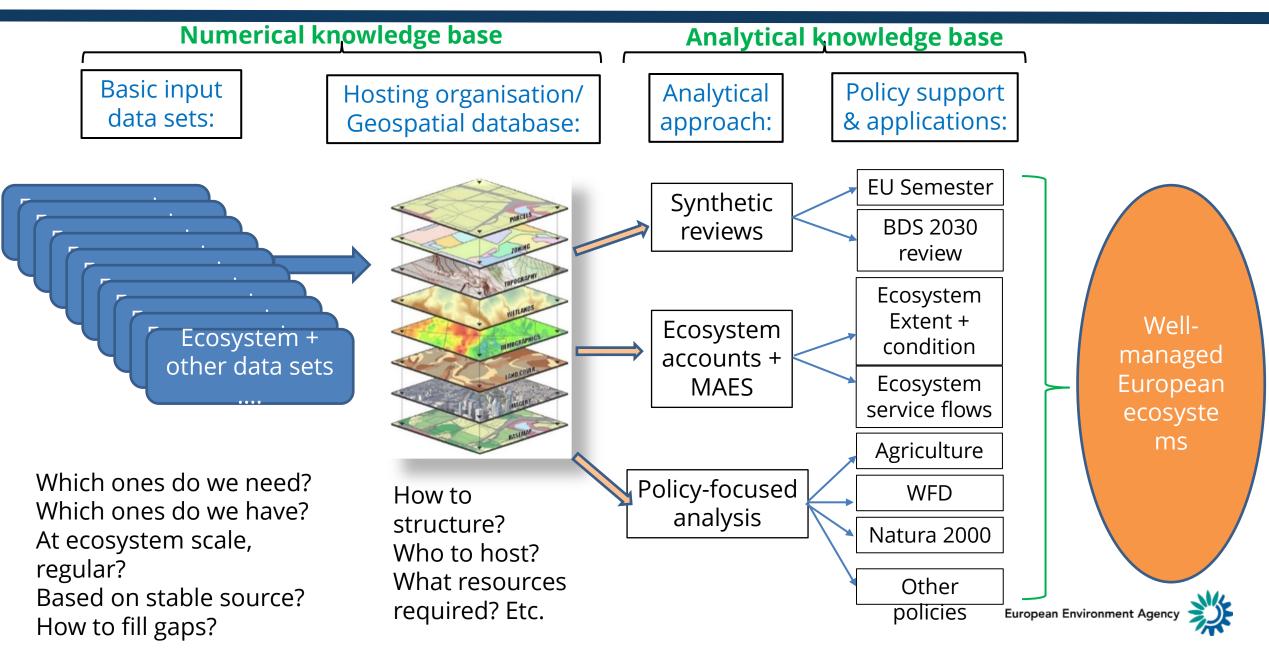
Reference: <u>Natural capital accounting in support of policymaking in Europe —</u> <u>European Environment Agency (europa.eu)</u>



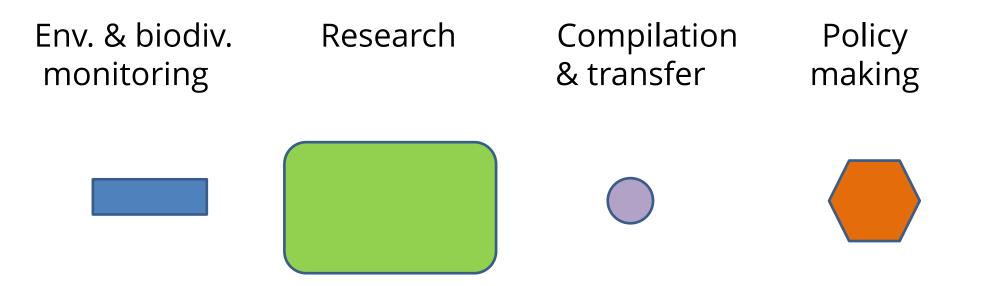
### **Knowledge framework for managing natural capital**



#### The data-to-knowledge chain



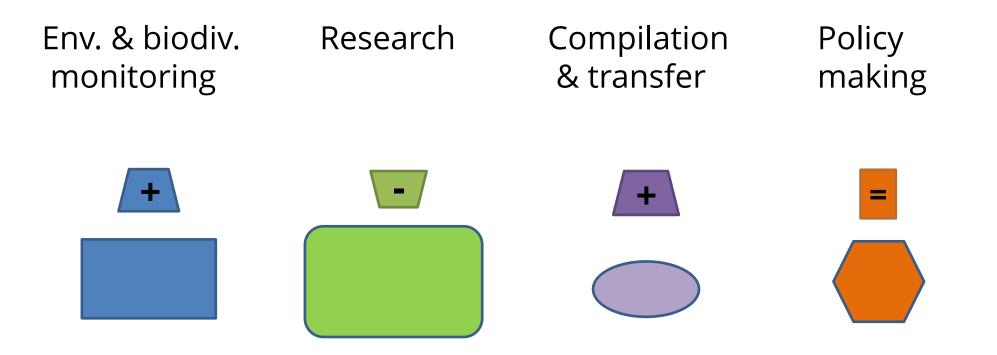
#### A personal view: resources in data-to-decision chain



*Current situation*: focus of resource investment is on research, outside of Copernicus there is relatively little investment in basic monitoring, the resources of environment agencies and similar bodies are often small compared to number of staff in research or policy making/implementation bodies.



#### A personal view: resources in data-to-decision chain



**Future situation (?)**: a more balanced distribution of resources in the knowledge chain; critical is to increase resources for monitoring and for the transfer capacity in environment agencies & similar bodies



## Thank you for your attention.

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