



Environmental economic accounts – a statistical framework

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SCB The System of Environmental Economic Accounting (SEEA)

- An internationally agreed statistical framework to **measure the environment and its interactions with economy**
- The SEEA **Central Framework** was adopted as an international statistical standard by the UN Statistical Commission in 2012
- The SEEA **Experimental Ecosystem Accounting** complement the Central Framework and represent international efforts toward coherent ecosystem accounting



The System of integrated Environmental and Economic Accounts (SEEA)

- **A satellite system to the national accounts**
- **Development since 1990, in 2012 the UNSC adopted SEEA CF as an international standard**
- **International cooperation, UN-based**
- **Eurostat harmonises and collects data.**

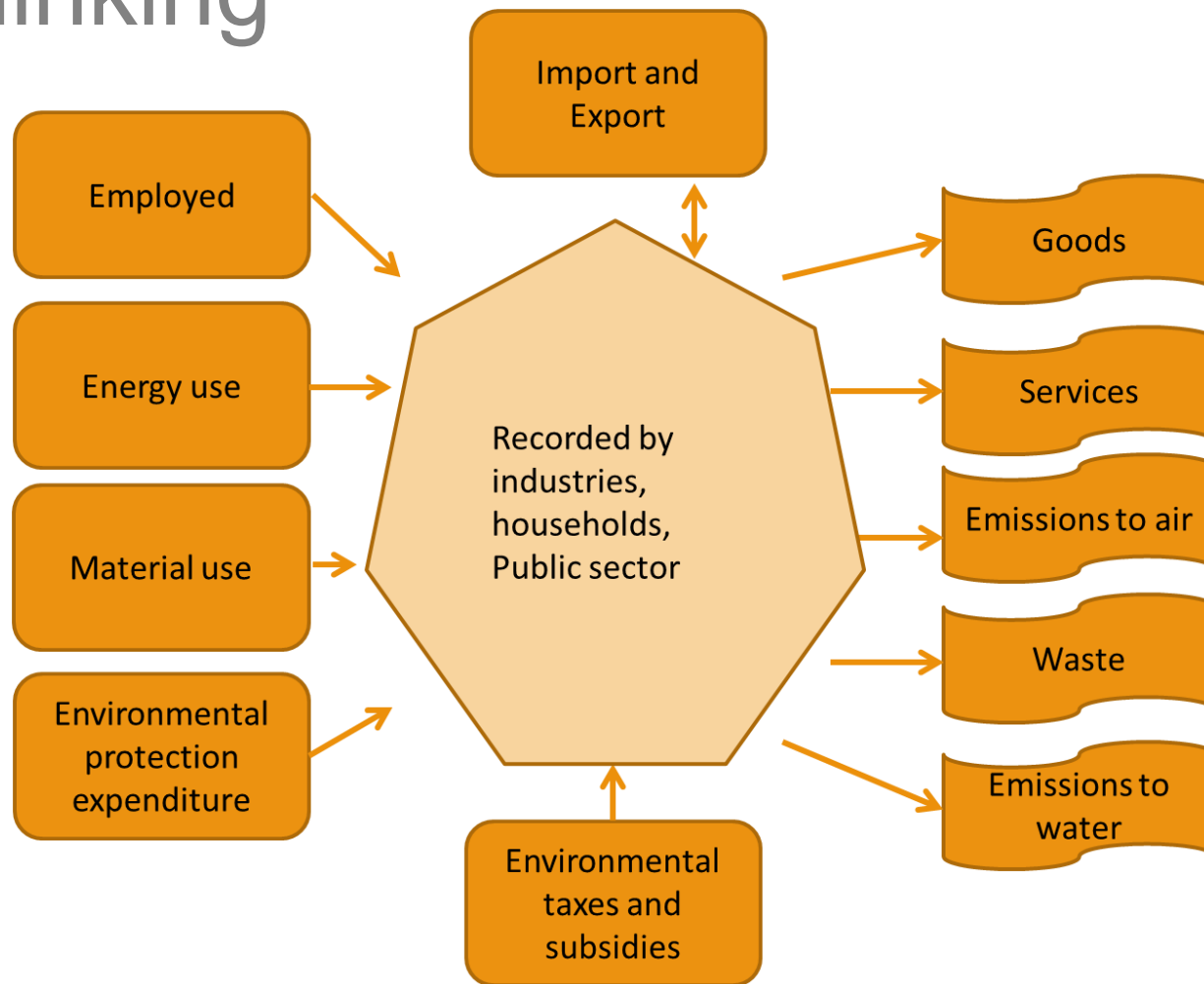


Advantages of linking physical flow data to the national accounts

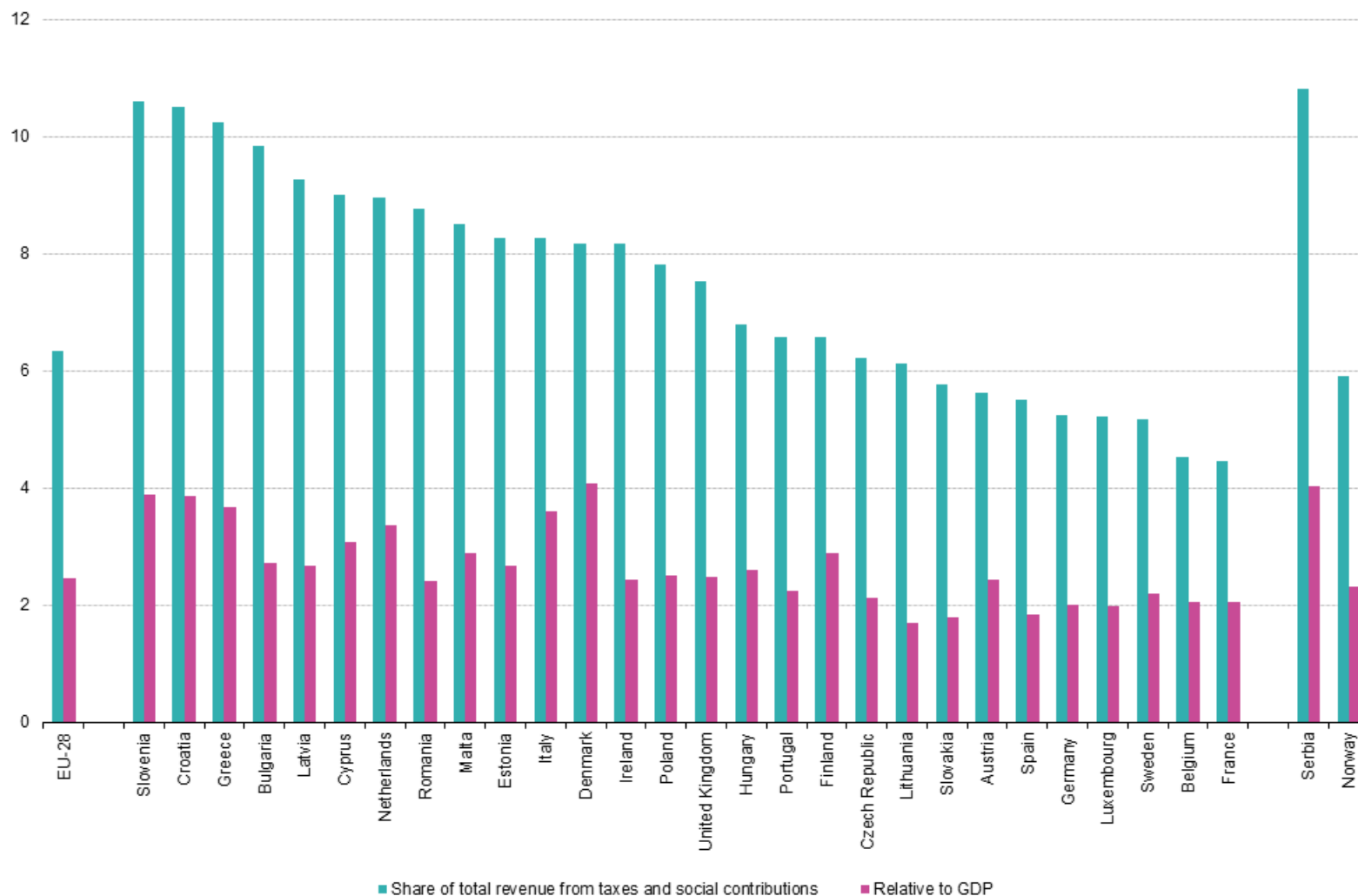
- Relevance of national accounts definitions
- Consistent comparability of economic and environmental indicators
- Analytical uses: IO-analysis, decomposition analysis, general equilibrium modelling



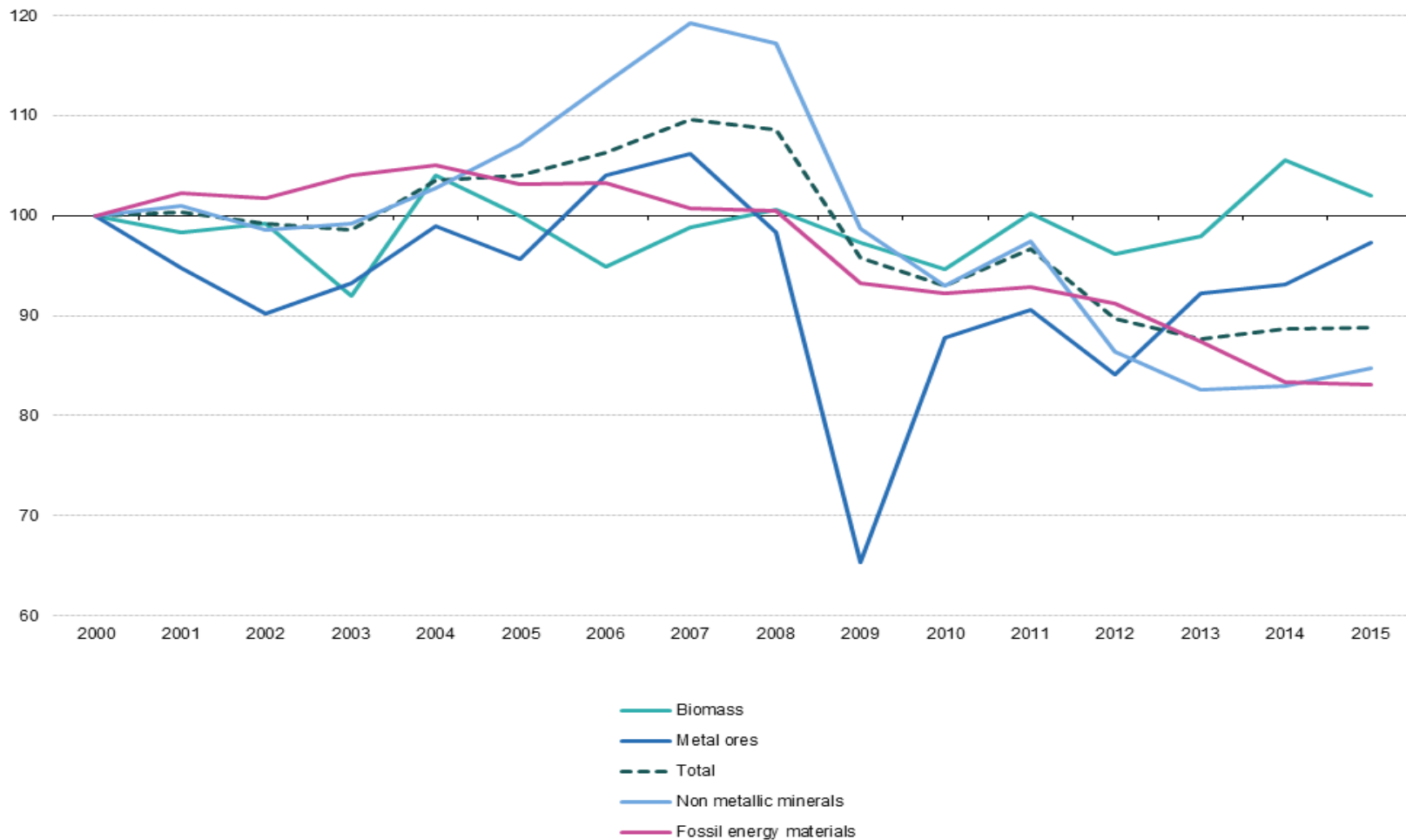
The concept – a Swedish way of thinking



Total environmental tax revenue, 2014 (%)



Development of domestic material consumption by main material category, EU-28, 2000–15 (2000 = 100)





Extending towards ecosystems

Ecosystem assets has long been part of the SEEA CF, such as forests, agricultural areas, water and land through tables measuring stocks and changes in stock.

Now extending it:

- (i) Information on ecosystem assets (i.e. ecosystem extent, ecosystem condition, ecosystem services and ecosystem capacity),
- (ii) Existing accounting information on economic and other human activity dependent upon ecosystems and the associated beneficiaries (households, businesses and governments) are an integrated part of the system.

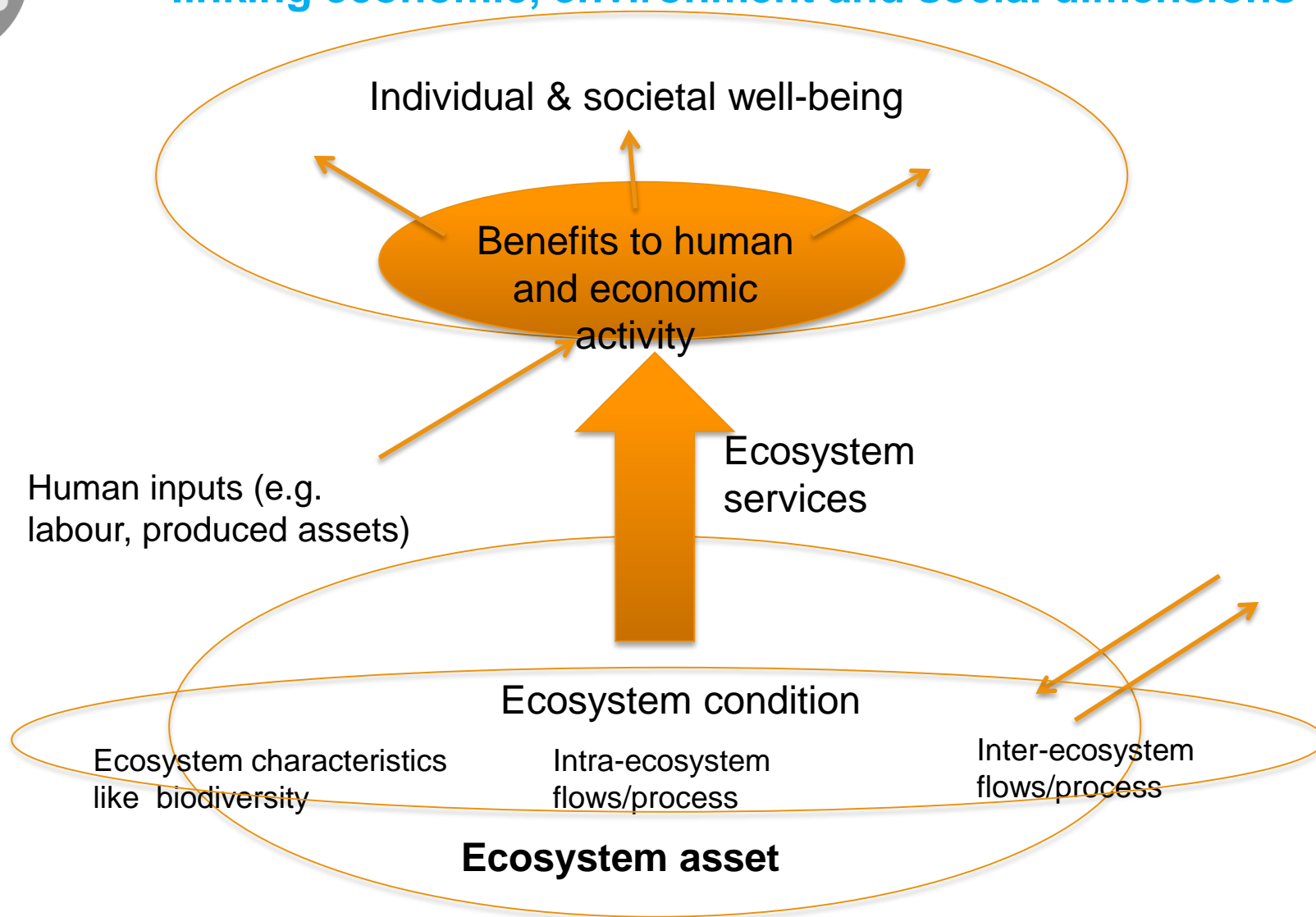




SEEA Experimental Ecosystem Accounting

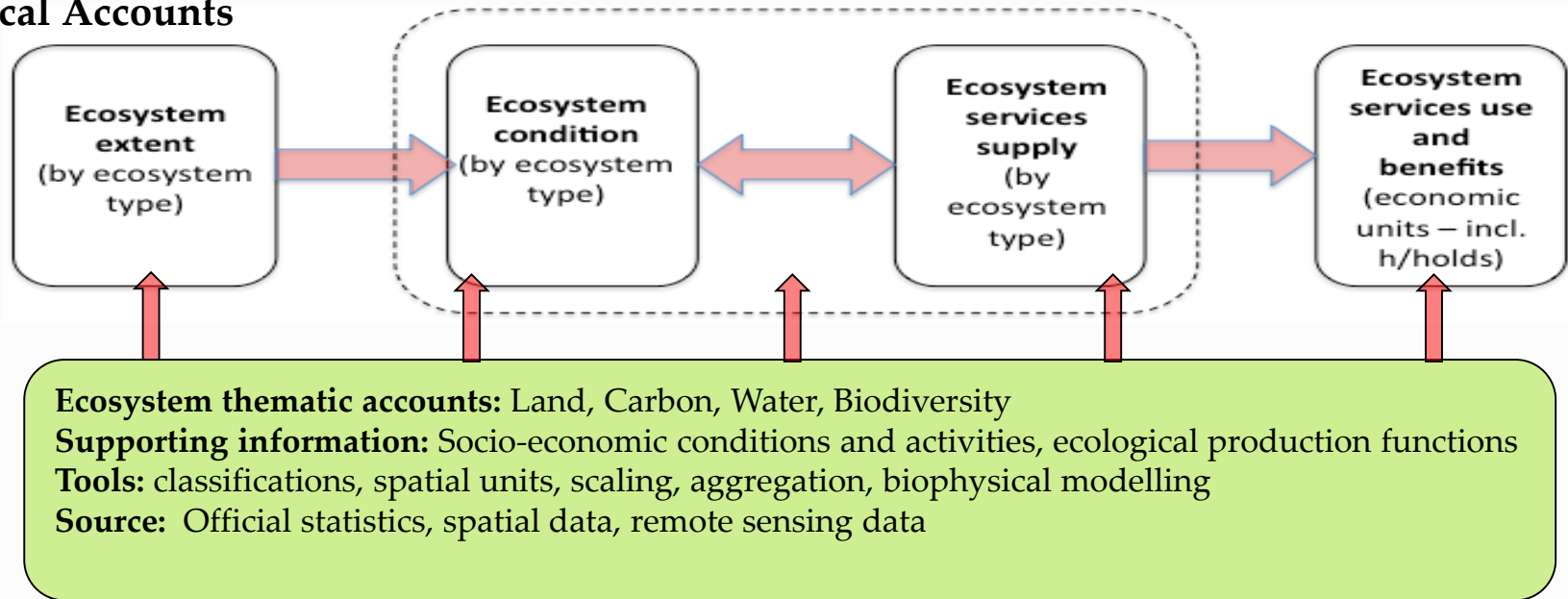
System based coherence

linking economic, environment and social dimensions



Broad steps in ecosystem accounting

a. Physical Accounts



b. Monetary Accounts

