# A user perspective: reflections based on recent work at EU level and in some Member States

- a) Brief overview of current approaches in the EU
- b) Thoughts on scope for developing 'proper' SEEA EEA accounts for ES supply & use
- c) Some final reflections



# **Current EU (KIP INCA) Proposal for ES Accounts**

Service	Physical unit							
Provisioning services								
Crops	Harvest (ton per ha)							
Timber	Timber growth and harvest (ton per ha)							
Marine fish	Catch (ton per fishing zone)							
Water	Water abstraction for public, industrial and agricultural use (m3 per unit area)							
Livestock	Amount of animal feed (grass) provided							
Regulating services								
Pollination	Share of the crop harvest pollinated (ton per ha)							
Erosion control (soil protection)	Avoided erosion in ton/ha/year compared to bare soil							
Water purification	Removal of in-stream nitrogen (ton per km river)							
Air filtration	Deposition of air pollutants (ton per ha)							
Carbon sequestration	C sequestration in ton/ha/year							
(in vegetation and soil)								
Flood control	Land area protected							
Cultural services								
Recreation	Number of visits in ecosystems (person-days) / ha, include budget for surveys in some countries							
Tourism	Number of overnight stays generated per ha/year							

### Finnish example: Indicators across the cascade

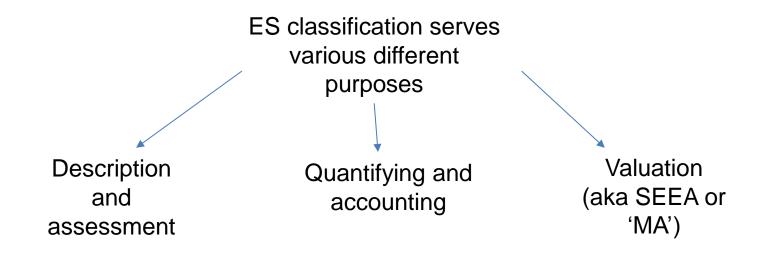
CICES						CASCADE								
Sec.	Div.	Group	Class		1. \$	1. Structure2. Function4. Benefit				it	5. Value			
<b>ONING SERVICES</b>	Nutrition	Biomass				erry and mushroom abitats (ha)		Average annual production (kg/A or kg/ha/A)		Harvest (kg)		Sales, picking income (€) berry and mushroom pickers (n, %), health and intrinsic values		
SER	2		Game	Game Gam		me naniais mai		Game population (n), wildlife richness		Game bag (kg)		Game bag (€), social, health and intrinsic values		
ONING			Reinde	eer	Reir	ndeer pastures (h	າລາ	Reindeer popu <b>l</b> a (n), birth rate (%		Cu <b>ll</b> ed rein (kg)	deer	employr	f reindeer meat (€) ment (n), intrinsic alth values	
Preferred natural areas Natural events, participation health val										health value, participation in outdoor activities (n), intrinsic value				
Indicators, 61, 2						37	ed natural areas	Natural events, phenology		Employ recreati experie		Tourism revenue (€), health value, employment (n), intrinsic value		
	Materials Biomass	EGULATI	uLTUR		Intellectual and representative intreactions	Science and Areas of particular education			Natural events, Source phenology knowle			Social, economic, intrinsic and health value of knowledge and innovations		
	Energy Biomass		C C	nd inte osyster			outer of the second		reaction over100,				Social, intrinsic, economic and health values of nature-related cultural heritage.	
				/sical a viota, ec Inte		Landscape Valuable/prefer landscapes (n,					Aesthet experie		Identity and aesthetics, marketing value of landscape (€ intrinsic and health values	
						Arts and Emblematic species and landscapes (n)		Natural events, experi		Aesthet experie recreati	nce,	Market value (€), identity and aesthetics, intrinsic and health values of cultural representation		
			ti Solo	ğ Soil qua	lity	of soil organisms	subst	tances Soil q	uality	harvest (€),	health, intri	nsic		

## **Overview of approaches used:**

- SEEA EEA was not always the explicit conceptual framework
- 'Common sense' understanding and data constraints as key drivers for chosen approach
- Most attempts at practical implementation do what is feasible on the basis of available data
- Outcome is a lot of variance around the concept of 'final ecosystem services'



# ES: understanding – measuring – valuing

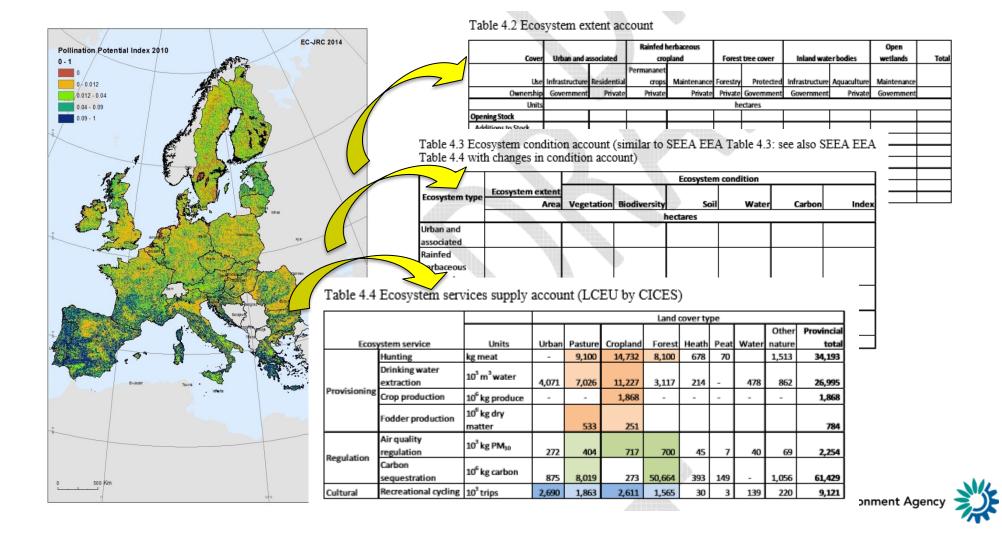


The definition of the 'production boundary' or what are 'final services' differs between these different analytical approaches.

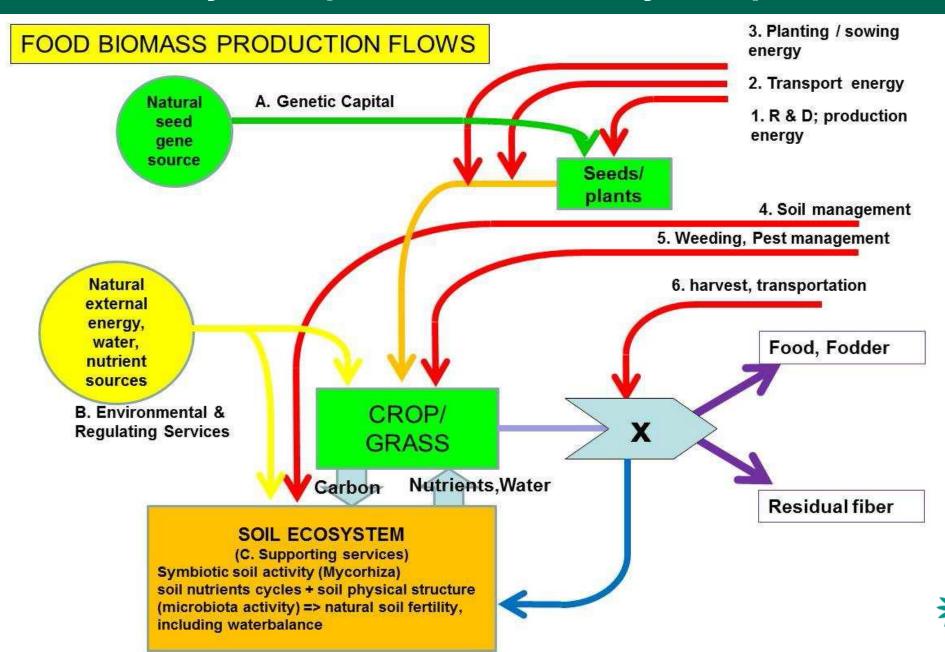


# **Developing an integrated accounting system:**

#### The concept looks very neat and logical..



### 'Real' ecosystem processes are very complex ..

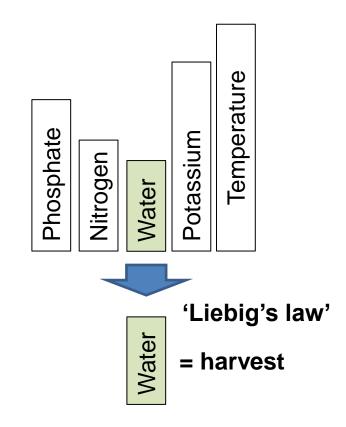


### Can we really disentangle the different production factors?

# What is the % share of different car parts in making it run?



#### Agronomy / ecosystems :





## **Some final reflections**

- Users in the CICES survey stressed the need to keep the system simple for practical use
- We need to have data constraints in mind when further reviewing ES classifications in an application perspective
- Data and knowledge needs are important aspects for further developing SEEA EEA methodology
- Data foundation and data architecture are identified as critical elements for developing an EU system of ecosystem accounts





#### Proposal for looking at share of 'nature' in

