ESPP – BioRefine workshop, in cooperation with the European Commission 'Nutrient data monitoring to support decision making'

Ghent (Belgium), 3-4 September 2015

Session 'Institutional nutrients monitoring and how nutrients data "could" feed current indicators'

Nutrient data, a crucial input to environmental assessments

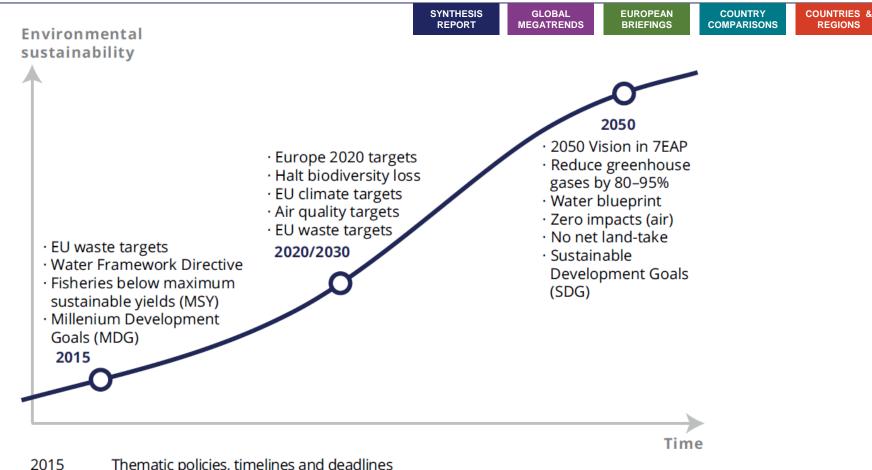
Geertrui Louwagie
Ecosystems assessment group



THE EUROPEAN ENVIRONMENT STATE AND OUTLOOK 2015



The policy context



2015 Thematic policies, timelines and deadlines

2020/2030 Comprehensive policies (Europe 2020, 7th Environment Action Programme), or specific target

2050 Long-term visions and targets with a societal transition perspective

European Environment Agenc

Source: EEA Multiannual Work Programme 2014–2018

Vision of the 7th Environment Action Programme

SYNTHESIS REPORT GLOBAL MEGATRENDS EUROPEAN BRIEFINGS COUNTRY COMPARISONS COUNTRIES & REGIONS

'In 2050, we live well, within the planet's ecological limits.

Our prosperity and healthy environment stem from an innovative, circular economy where nothing is wasted and where natural resources are managed sustainably, and biodiversity is protected, valued and restored in ways that enhance our society's resilience. Our low-carbon growth has long been decoupled from resource use, setting the pace for a global safe and sustainable society.'

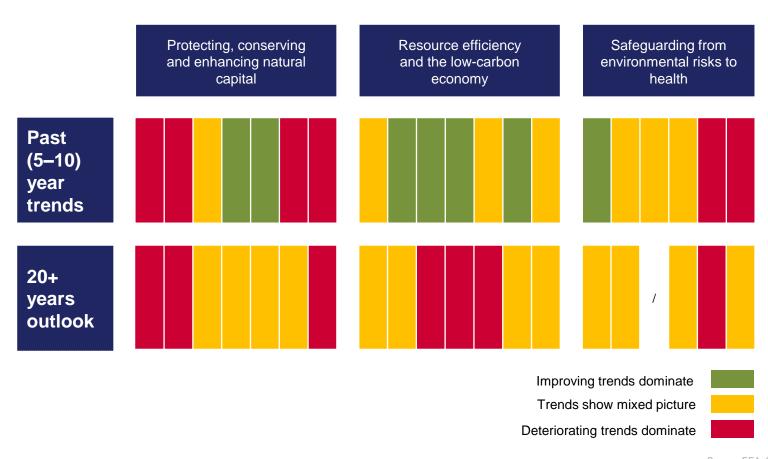


Source: 7th EU Environment Action Programme



The overall picture: Efficiency improvements have not secured long-term resilience

SYNTHESIS REPORT



Source: EEA. SOER 2015 Synthesis report.



Ecosystem Accounting Ecosystems mapping & assessment

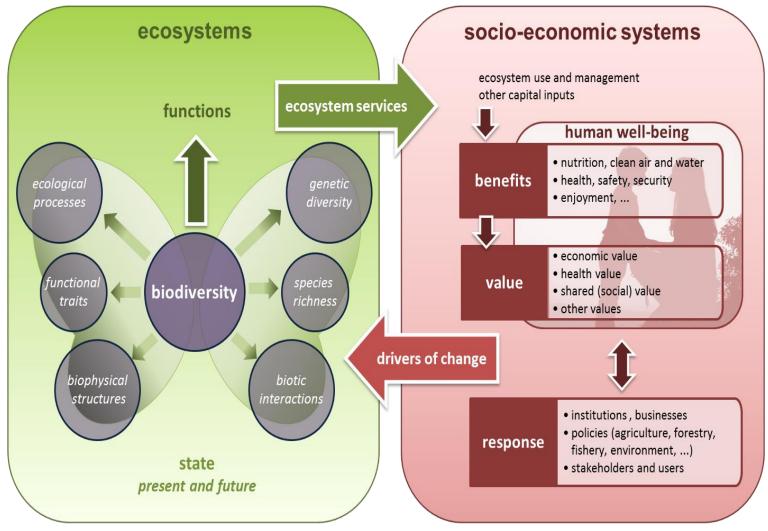
Experimental Ecosystem Accounting Proposed accounts – Structure

	Primary ecosystem accounts	Ecosystem component accounts and related information
Feasibility and structure of accounts well advanced	Ecosystem extent account	Land cover account
	Ecosystem condition account	Carbon account
	Ecosystem services supply account	Water resources account
	Ecosystem services use account	Biodiversity account
		Drivers of ecosystem condition & change
Structure of accounts under development and discussion	Ecosystem capacity account	Valuations of ecosystem services
	Ecosystem asset account	Reference conditions
	Augmented input-output table*	
	Integrated sector accounts & balance	
	sheets*	

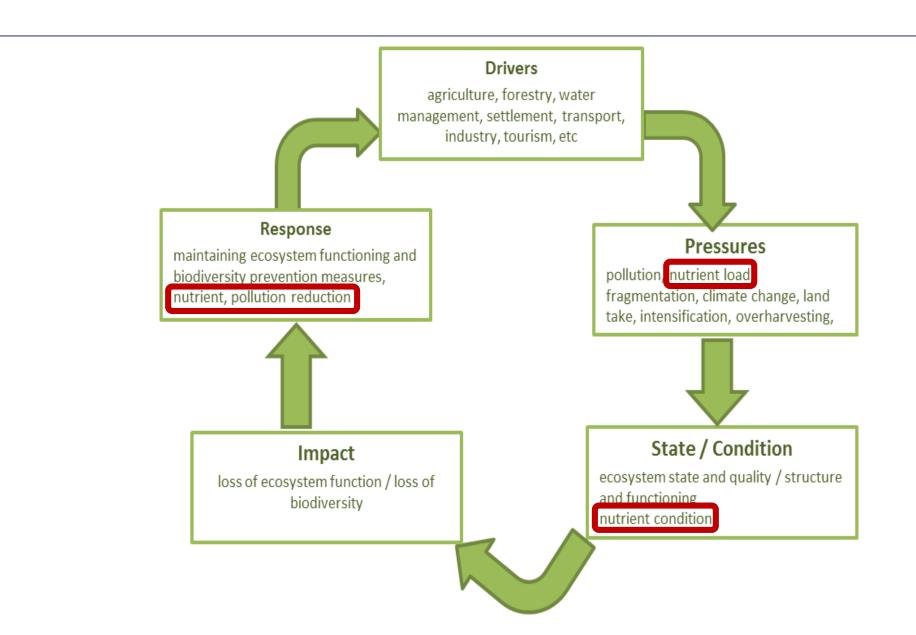
^{*} These accounts reflect the integration of ecosystem accounting based information into the standard set of national accounts



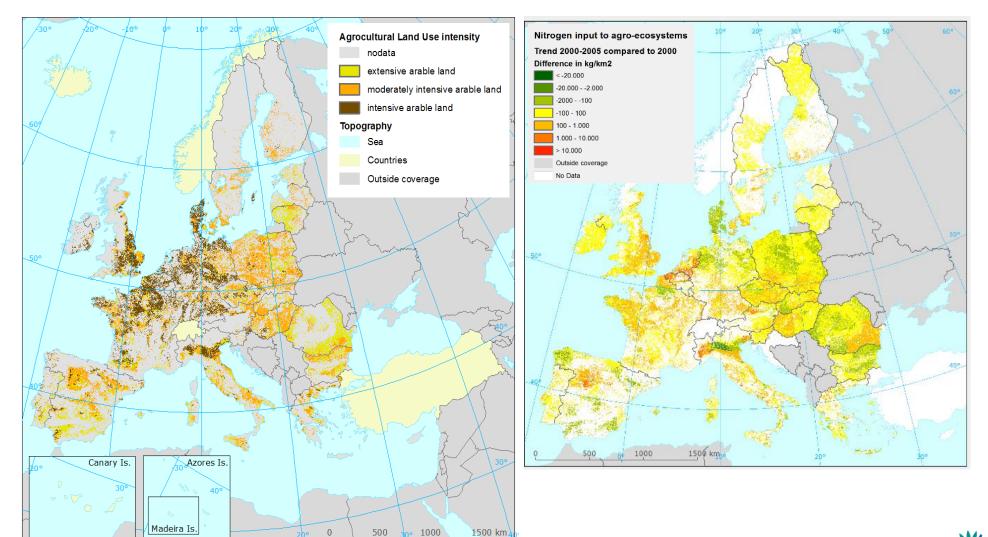
EU Biodiversity Strategy to 2020 Mapping of ecosystems and their services (MAES) – Framework



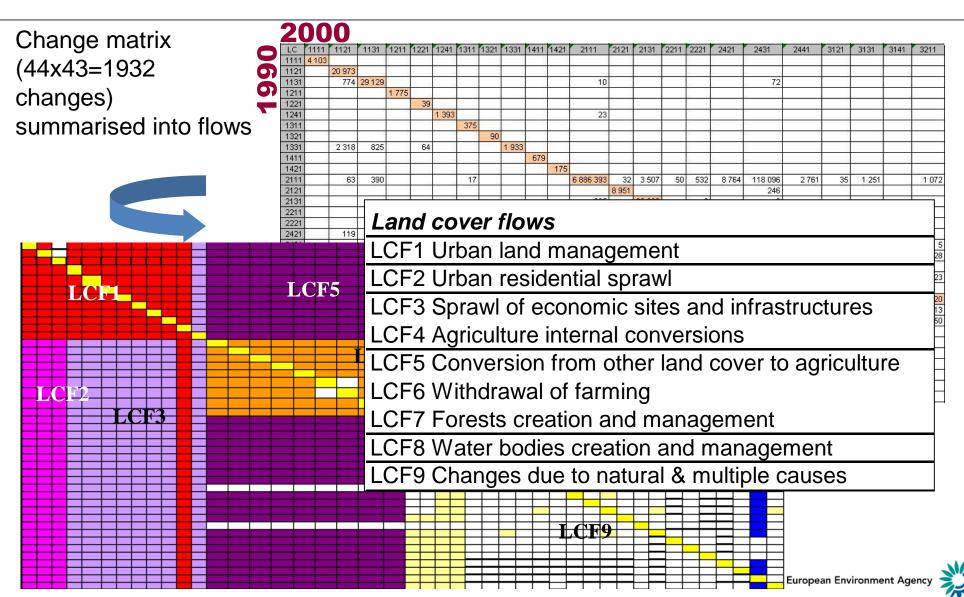
Cause-effect framework for ecosystems



Pressure on agro-ecosystems functioning Land use intensity (2006) and trends (2000-06 versus 2000)



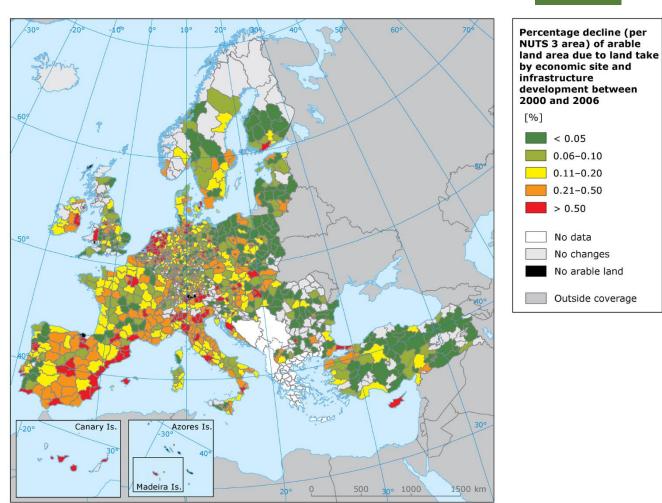
Land accounts – from land cover mapping to accounting





Land cover changes – 'Land take' Pressure on soil and ecosystem functioning

EUROPEAN BRIEFINGS



Source: EEA, 2015, The European Environment: State & Outlook 2015 (SOER 2015), European briefing 'Soil'.



Nutrient data/information & EEA

- EEA is user
- Data/information feeds into
 - ecosystems assessment
 - ecosystem capital accounting
 - food systems assessment (across economy)
- Time series and geographical coverage required



Thank you!

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Explore SOER 2015 online: eea.europa.eu/soer

