THE EUROPEAN ENVIRONMENT STATE AND OUTLOOK 2015



1 October 2015 – Science and the Environment Conference, Aarhus

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What is the European environment – state and outlook 2015 (SOER 2015)?

SYNTHESIS REPORT GLOBAL MEGATRENDS EUROPEAN BRIEFINGS COUNTRY COMPARISONS COUNTRIES & REGIONS

A comprehensive assessment of past trends and future outlooks that informs EU policy implementation and reflects on opportunities to recalibrate EU policies and knowledge investments to meet the 2050 vision of the 7th Environment Action Programme.

SOER 2015 Synthesis report							
SOER 2015 Assessment of global megatrends							
Global megatrends	European briefings	Cross-country comparisons	Countries and regions				
11 briefings	25 briefings	9 briefings	39+3 briefings				

Vision of the 7th Environment Action Programme

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COUNTRIES & REGIONS

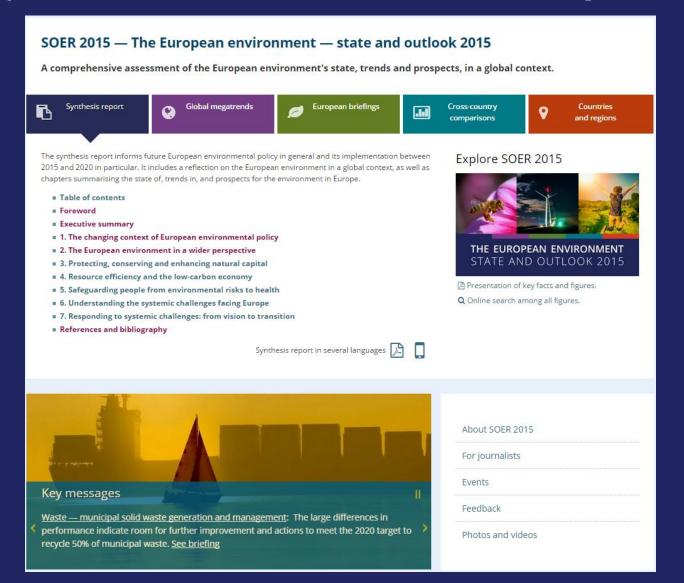
'In 2050, we live well, within the planet's ecological limits.

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



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





Over time our understanding of environmental challenges has evolved

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Characterisation Specific		Diffuse	Systemic	
Key features large (point) sources; multi		Cumulative causes; multiple sources; often regional	Systemic causes; interlinked sources; often global	
In the spotlight in	1970s/1980s (and continuing today)	1980s/1990s (and continuing today)	1990s/2000s (and continuing today)	
Inclines issues such as I hights tirbah		Agriculture pollution; Eutrophication	Climate change; Ecosystem degradation	
Dominant policy response	Targeted policies, abatement technologies, single instruments	Policy integration, multiple instruments, raising public awareness	Strategies, visions, foresight, coherent policy packages	







Assessment of past trends and future outlooks

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The SOER 2015 Synthesis report addresses the three thematic priority objectives of the 7th EAP:

- 1. Protecting, conserving and enhancing natural capital
- 2. Resource efficiency and the low-carbon economy
- 3. Safeguarding from environmental risks to health

Two overall patterns emerge:

- Resource efficiency improvements have been notable but have not translated into increased ecosystem and social resilience
- The long-term outlook is often less positive than recent trends

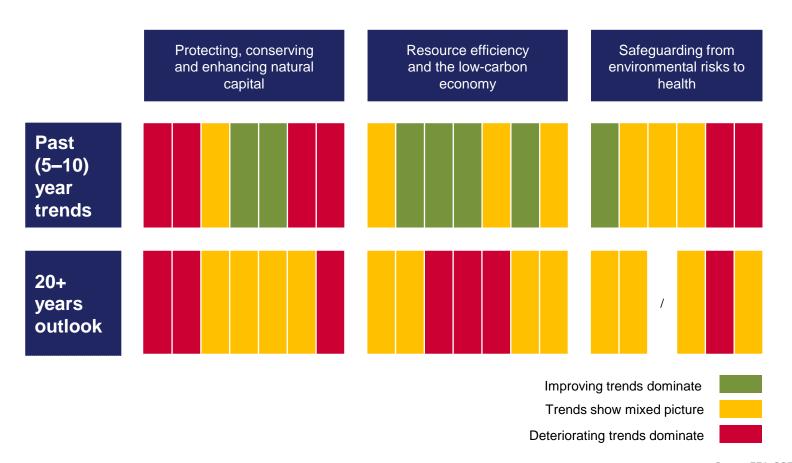


The overall picture: Efficiency improvements have not secured long-term ecosystem and social resilience

SYNTHESIS REPORT

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Source: EEA. SOER 2015 Synthesis report.





Understanding past trends and future outlooks

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Two major factors explain the uneven progress and prospects:

The changing global context

- Competition for resources
- Pressures from outside Europe
- Planetary boundaries

Systemic characteristics of environmental challenges

- Complexity
- Uncertainty
- Environmental, social and economic interdependencies



Looking ahead: Systemic challenges require systemic solutions

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COUNTRY COMPARISONS COUNTRIES & REGIONS





Source: Tesla

but fundamental transitions in food, energy, mobility, urban, finance and fiscal systems through profound changes in dominant practices, policies and knowledge.



What does it all mean for the knowledge base?

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- Further integrated monitoring and spatial data assimilation – satellites, in-situ, statistics
- More use of « unconventional » data citizen science, BIG data - to support policy
- Improved indicators on environment economy
 social interactions (ref. UN SDGs)
- More research investments towards insights on long-term, systemic risks and opportunities
- More emphasis on solution-oriented knowledge than the problem-focused base of today



Knowledge management at the EEA

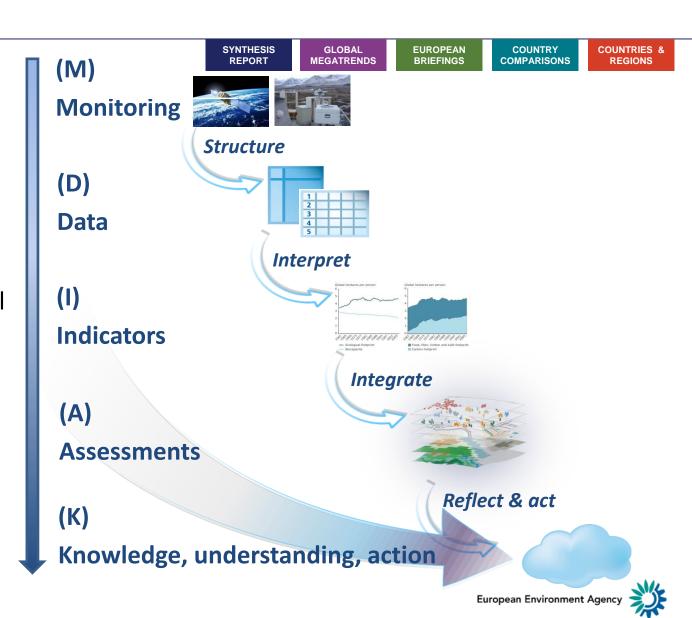
Satellite images, in-situ monitoring, statistics

European data centres,

Indicators, environmental accounting, ...

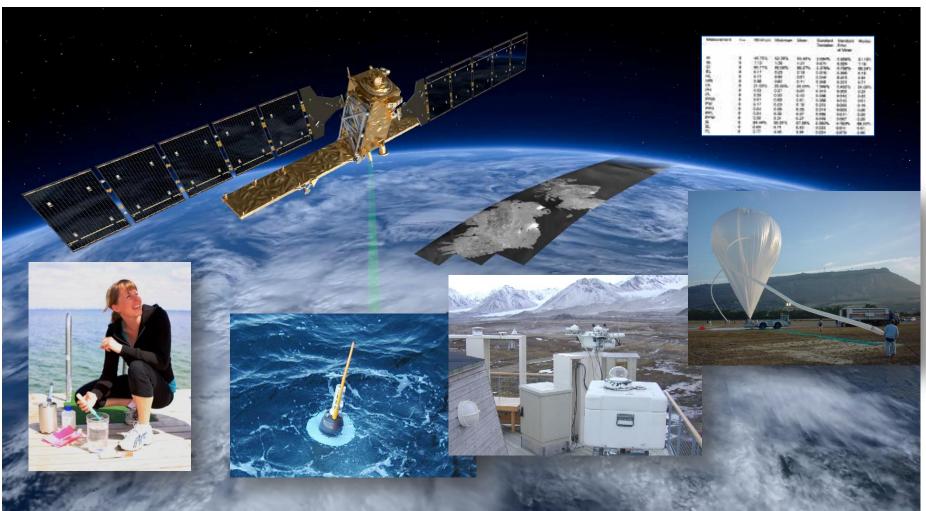
Integrated assessments across time and scales

Policy, business, local communities,

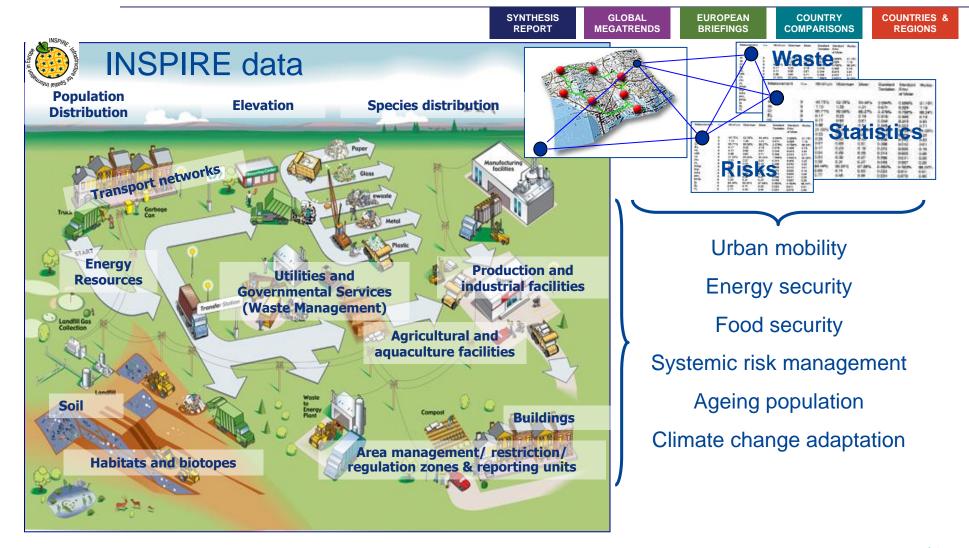


A monitoring challenge: integration of satellite images, in-situ data and statistics

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Data challenge: cross-sector operability, integrated modelling, communicating uncertainties



Assessment challenge: indicator framework to measure progress towards living well within the limits of the planet

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Resources/capital	Green economy dimension					
	Efficiency	Resilience	Well-being	Equity		
Economic resources						
Manufactured resources						
Natural resources						
Human resources						
Social resources						

And finally...a quote about knowledge and wisdom

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