THE EUROPEAN ENVIRONMENT STATE AND OUTLOOK 2015



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

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.

SYNTHESIS

REPORT

GLOBAL

MEGATRENDS

EUROPEAN

BRIEFINGS

COUNTRY

COMPARISONS

COUNTRIES 8

REGIONS

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

'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.'

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Source: 7th EU Environment Action Programme

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





SOER2015 / Synthesis /

Over time our understanding of environmental challenges has evolved

SYNTHESIS GLOBAL REPORT MEGATRENDS

EUROPEAN BRIEFINGS COUNTRY COMPARISONS COUNTRIES & REGIONS

Characterisation	Specific	Diffuse	Systemic
Key features	Linear cause-effect; large (point) sources; often local	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)
Includes issues such as	Pollution from power plants, urban wastewater	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

Overall summary table



Assessment of past trends and future outlooks

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

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- 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



Trends show mixed picture

Deteriorating trends dominate

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



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

EUROPEAN

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- 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





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

SYNTHESIS	GLOBAL	EUROPEAN	COUNTRY	COUNTRIES &
REPORT	MEGATRENDS	BRIEFINGS	COMPARISONS	REGIONS

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

GLOBAL EUROPEAN COUNTRY SYNTHESIS REPORT MEGATRENDS BRIEFINGS COMPARISONS

COUNTRIES REGIONS



