

The EEA, knowledge for transitions and SOER 2020

Michael Asquith, PATHWAYS-SOER 2020 workshop, 20 November 2016

The EEA's SOERs both reflect and inform EU environmental policy

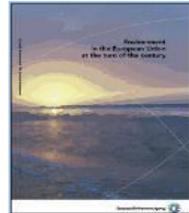
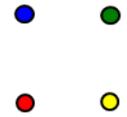


SOER 1995

Focus
Addresses 5EAP targets, sectoral integration

Input to EU environmental policy

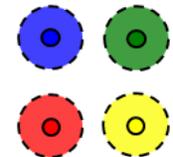
Report for the mid-term review of the 5EAP (1993–2000)



SOER 1999

Focus
Addresses environmental trends, interconnections

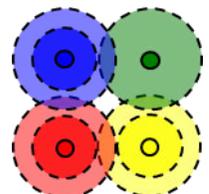
Input to the assessment of the 5EAP (1993–2000)



SOER 2005

Focus
Addresses air, water, land, core indicators

Input to the mid-term review of the 6EAP (2002–2012)



SOER 2010

Focus
Addresses 6EAP priorities, systemic challenges

Input to the final assessment of the 6EAP (2002–2012)



SOER 2015

Focus
Addresses 7EAP priorities, need for transitions

Input to implementation of the 7EAP and a baseline for future reference

From specific to systemic understanding of Europe's environmental challenges

Key messages from SOER 2015



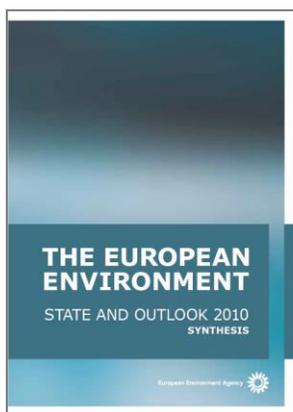
Based on a detailed analysis of the European environment's state, trends and outlook, SOER 2015 concluded that the outlook for Europe's environment in coming decades is worrying.

Achieving the EU's 2050 vision of 'living well within environmental limits' (EU, 2013a), will require that Europe achieves **fundamental transitions in its core societal systems**, in particular those related to **food, energy, mobility** and the **built environment**.

From understanding problems to identifying responses

Understanding systemic challenges and the need for transitions

Identifying knowledge, skills and governance approaches for transitions



PROBLEM-FOCUSED

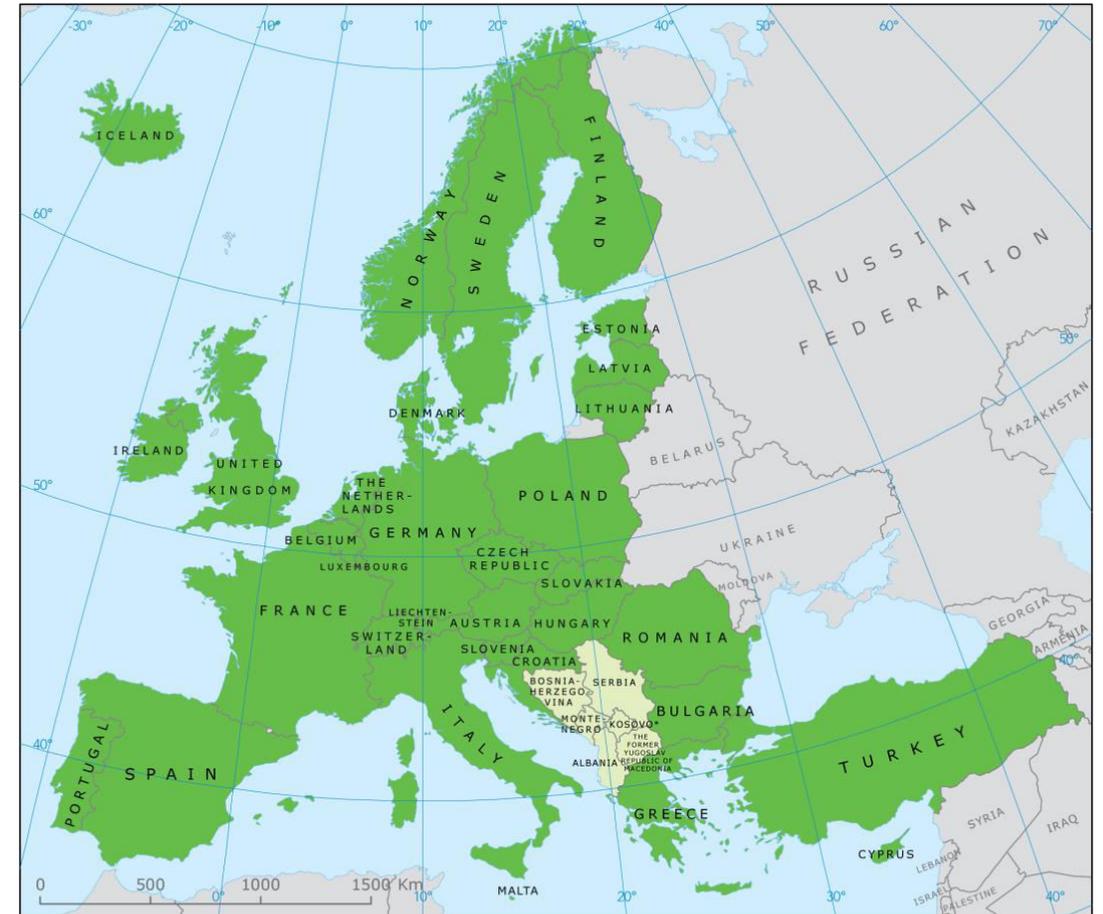
MORE SOLUTIONS-ORIENTED

The EEA: a network organisation with direct links to policy

The European Environment Agency is an EU institution that operates at the interface of science and policy.

The EEA has c. 200 staff, while its **network** 'Eionet' comprises more than 1000 experts and 350 institutions in 39 European countries.

The EEA gathers data and information from across Europe and **translates** them into assessments and knowledge to inform **policy** and decision-making.



EEA coverage

Member countries

Cooperating countries

*Kosovo under UNSCR 1244/99



Possible roles for the EEA in supporting transitions

- **Convener** of actors from the different research and governance communities, to facilitate integration and co-creation of different forms of knowledge
- **Translator** both across disciplines and from complex academic theory into the language of policy
- **Networker**, helping link local innovations, or 'scaling up' local practices to higher institutional or policy levels
- **Analyst** of specific aspects of systems of particular importance for transition processes



EEA work on transitions in 2016

Engaging with transitions and transformations communities, e.g.

- STRN, Transformations 2015, Future Earth, etc.
- PATHWAYS workshop at the EEA in February
- EEA Scientific Committee seminar on knowledge for transitions

Reports and analysis addressing

- Global context (e.g. megatrends and planetary boundaries)
- Transitions theory and concepts
- Specific socio-technical and socio-ecological systems
- Local initiatives and practice-based knowledge

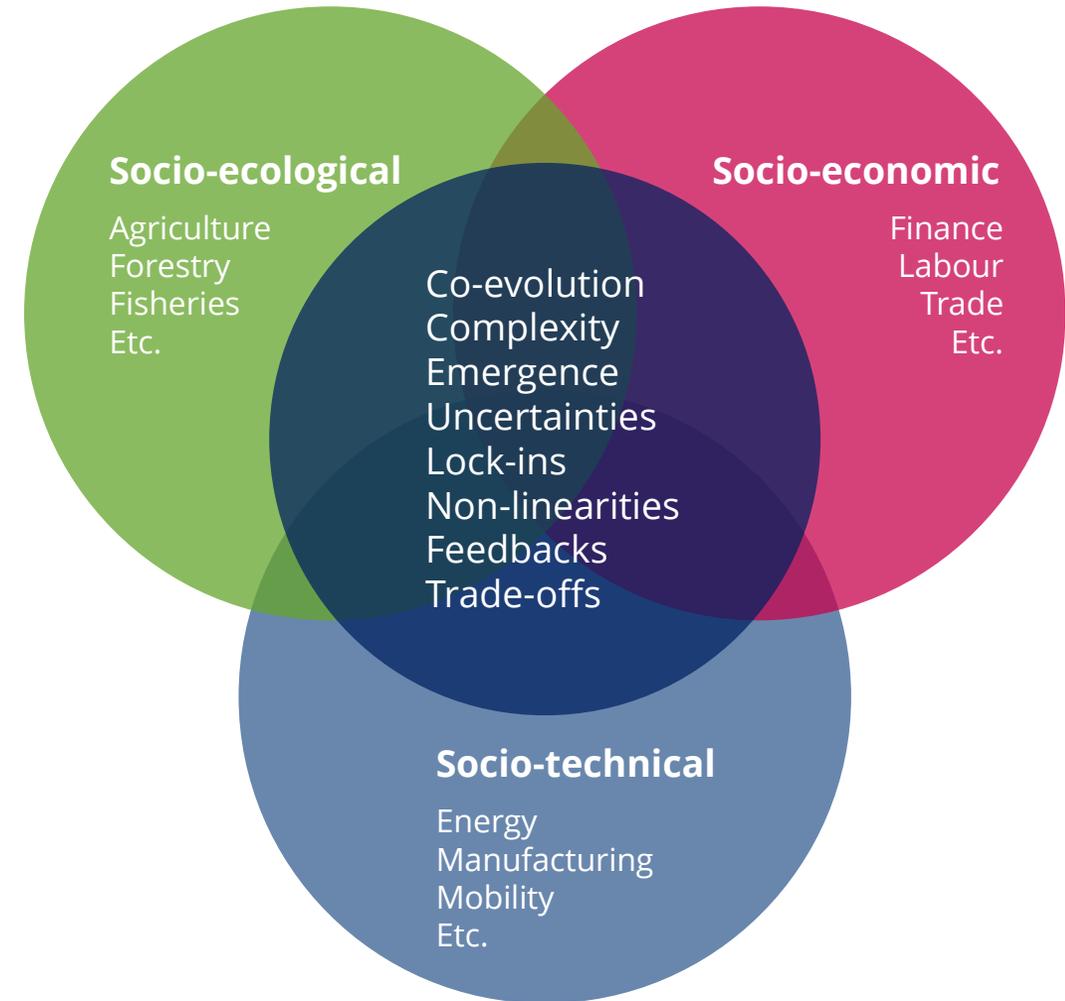
Transitions knowledge base report

Presents **five perspectives on systemic change**, how they fit together and what they offer in terms of **knowledge for transitions**:

- Socio-technical
- Socio-ecological
- Socio-economic
- Integrated assessment modelling
- Practice-based approaches

Next steps

- Technical report and seminar: spring 2017
- EEA report: early 2018



Source: Loorbach (2015)

Eionet transitions report



Sustainability transitions:
Now for the long term



75 CASE STUDIES

26 COUNTRIES

5 EUROPEAN TOPIC CENTRES

9 SECTORS

- **Shared learning** process: engaging Eionet as we build towards SOER 2020
- **Explaining and illustrating** complex concepts
- **Engaging and inspiring** with empirical examples

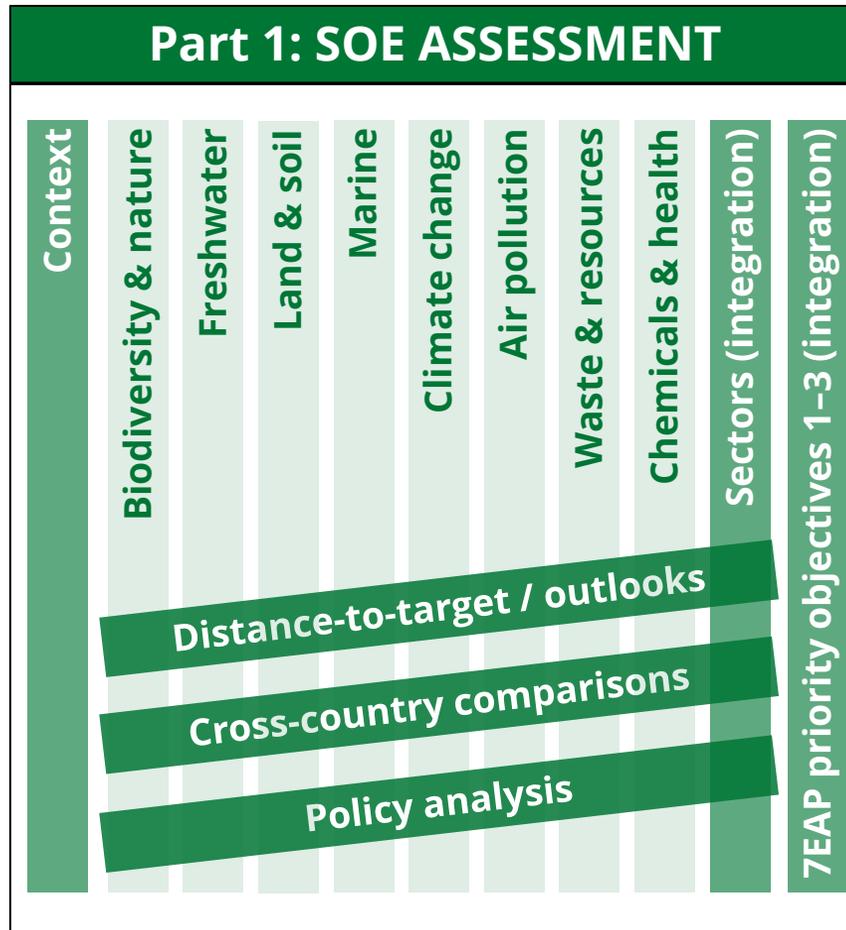
But gathering and analysing practice-based knowledge in a scientifically rigorous way is **resource intensive**.

Understanding impacts, scaling, networking, etc. could well require tapping into existing knowledge and networks (e.g. ARTS, PATHWAYS, TESS, ICLEI, etc.)

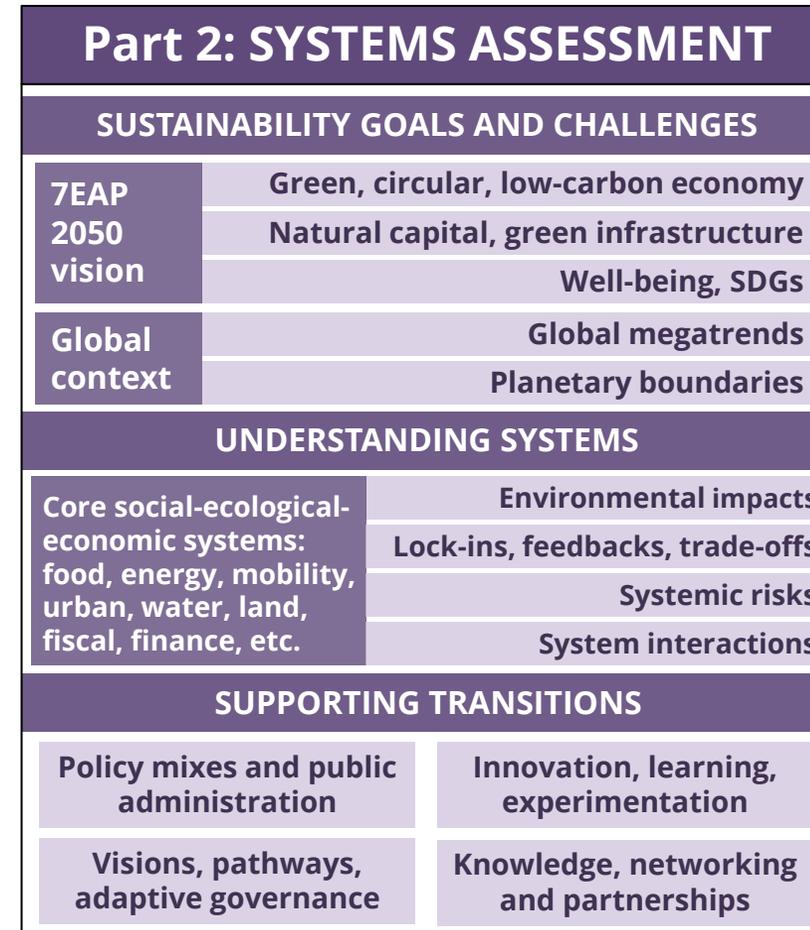
SOER 2020: proposed structure and building blocks

Part 3: SYNTHESIS = 1 + 2 + stakeholders

Part 1: SOE ASSESSMENT



Part 2: SYSTEMS ASSESSMENT



Part 2 responds to the challenges identified in SOER 2015

“The systemic nature of the problems and dynamics identified here necessitates systemic solutions.”

SOER 2015 Synthesis

Part 2: SYSTEMS ASSESSMENT	
SUSTAINABILITY GOALS AND CHALLENGES	
7EAP 2050 vision	Green, circular, low-carbon economy
	Natural capital, green infrastructure
	Well-being, SDGs
Global context	Global megatrends
	Planetary boundaries
UNDERSTANDING SYSTEMS	
Core social-ecological-economic systems: food, energy, mobility, urban, water, land, fiscal, finance, etc.	Environmental impacts
	Lock-ins, feedbacks, trade-offs
	Systemic risks
	System interactions
SUPPORTING TRANSITIONS	
Policy mixes and public administration	Innovation, learning, experimentation
Visions, pathways, adaptive governance	Knowledge, networking and partnerships

Why do we need change?

Long-term sustainability goals and the changing global context

What do we need to change?

Understanding core societal systems and barriers to transformation

How can we achieve needed change?

Initiatives, policies, knowledge and governance approaches to support transitions

What can PATHWAYS, ARTS and TESS tell us?

- **Environmental and socio-economic characteristics** of the key systems (e.g. ecosystem impacts, systemic risks, emerging issues, scale of needed change)
- **Obstacles and opportunities for change** (e.g. lock-ins, feedbacks, trade-offs, burden-shifting; leverage points, tensions, cracks)
- **Promoting experimentation and innovation, and enabling systemic change** (e.g. quantification of systemic impacts of local initiatives; factors enabling innovation, learning and upscaling)
- **Evidence of opportunities for policymakers** to overcome barriers and support systemic transitions (to be expanded on in the next session)

In considering these questions it will be useful to distinguish system-specific lessons from more general insights