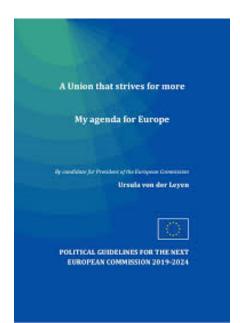




The vision



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



Green Deal 8EAP





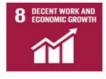






















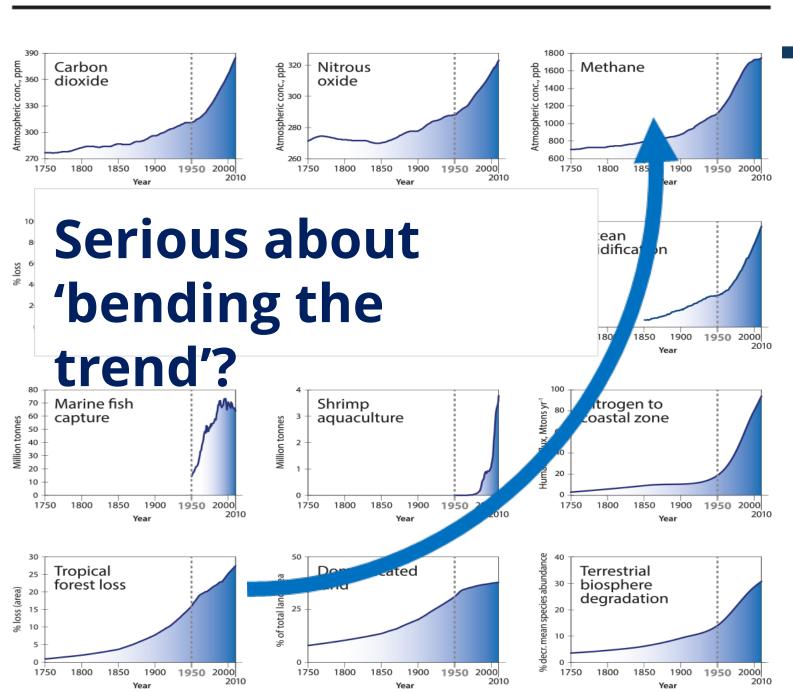












The reality

Expectations/
policy promises



How credible?
How feasible?
What sort of
policies and
knowledge?

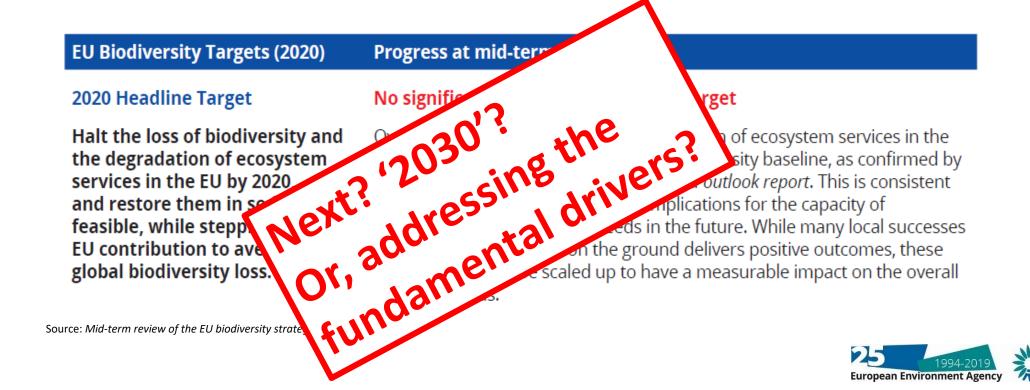


Major challenges for established policy approaches

Are EU policies addressing the underlying drivers of environmental degradation?

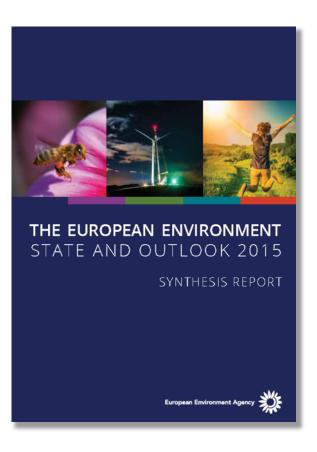
In **2001**, the EU set itself the target to halt biodiversity loss in the EU by **2010**.

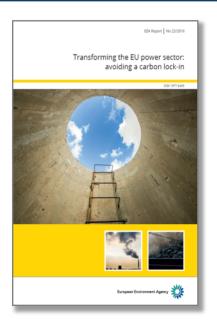
In **2011**, the EU set the target to 'halt loss of biodiversity and degradation of ecosystem services in the EU by **2020**'.

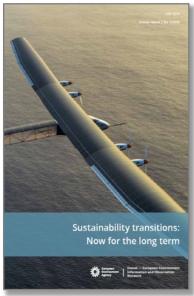


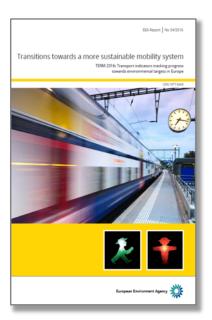


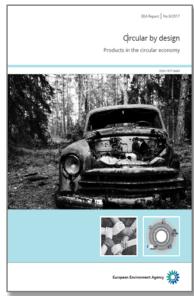
Sustainability transitions: novel concepts and uncertain implications

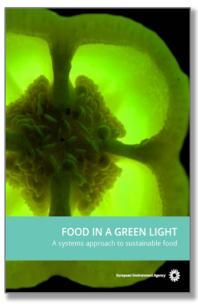




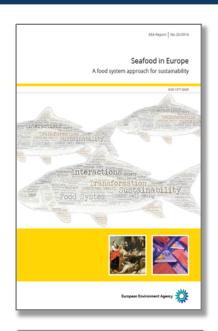






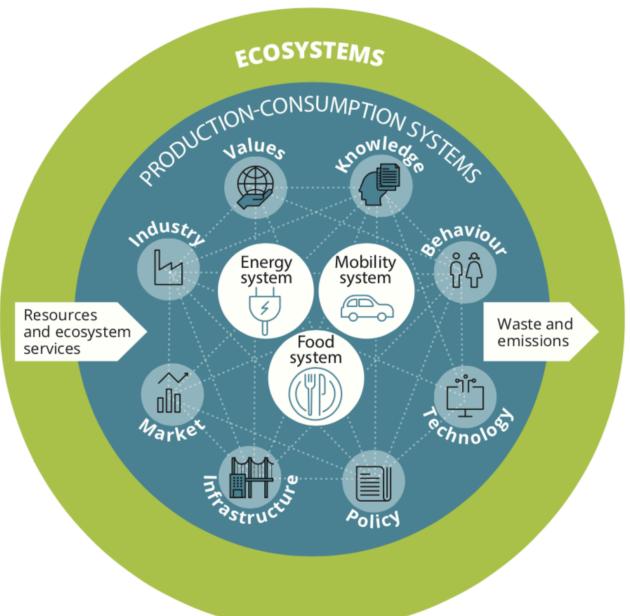






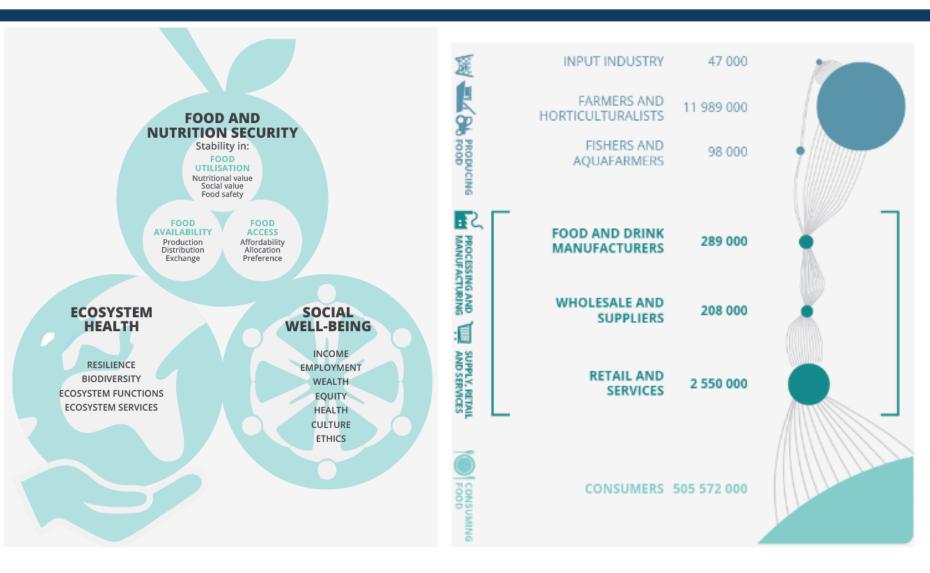


Key systems driving persistent sustainability problems





Complex, multifunctional systems, diverse lock-ins



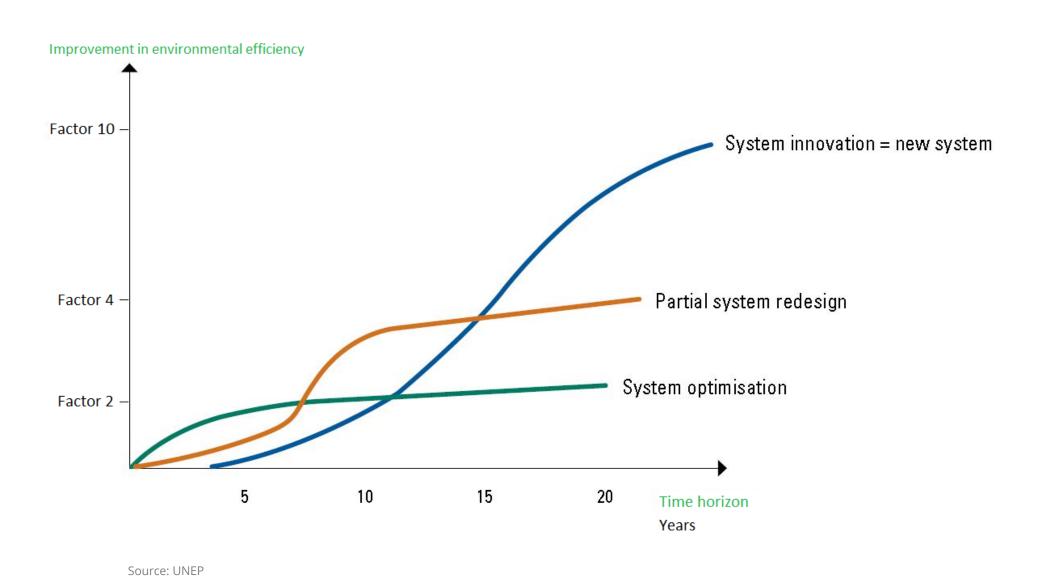








The scale of needed change requires system innovation





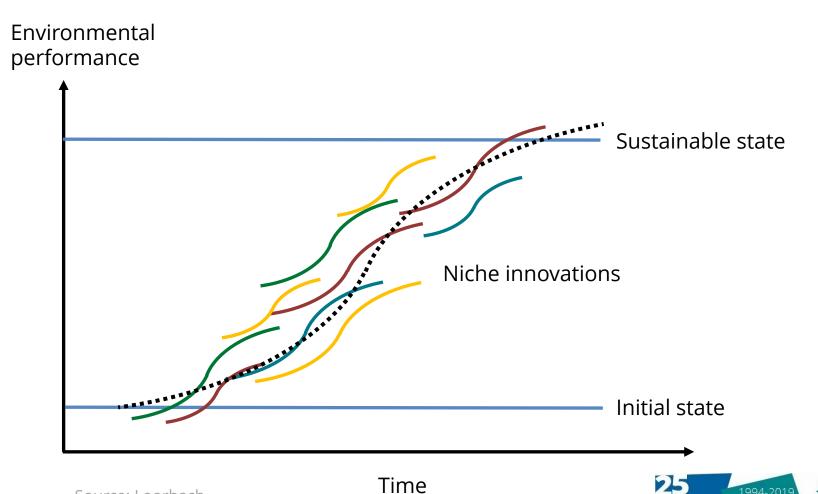






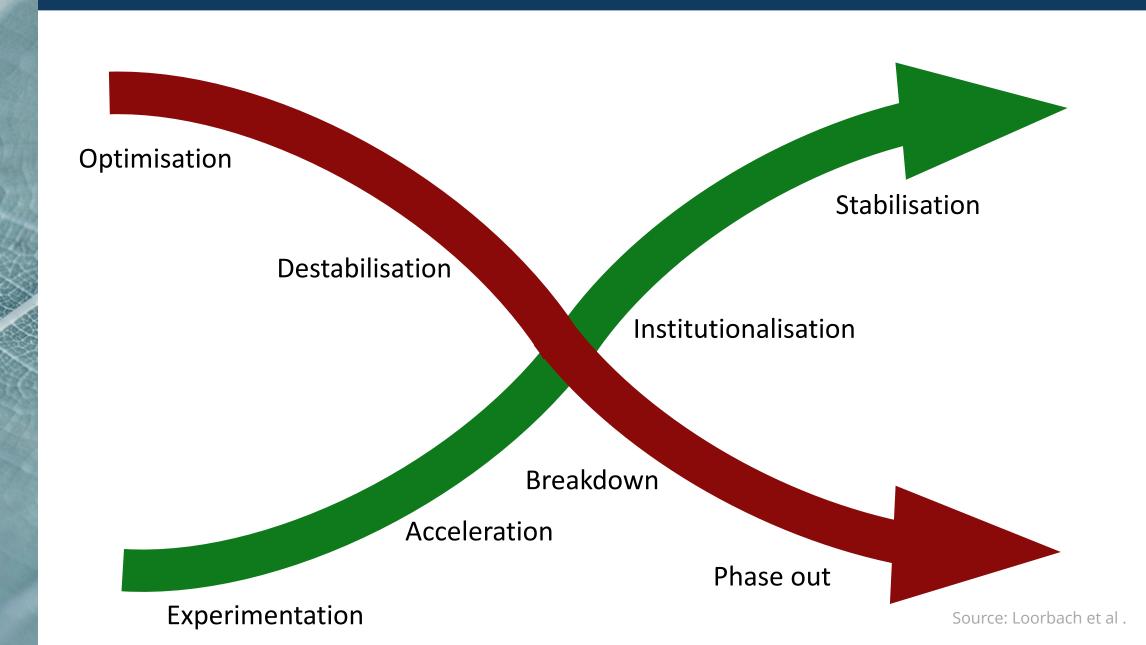
Rethinking how we meet societal needs

Systemic change involves multiple innovations – entailing a fundamental rethinking of how to perform societal functions



Source: Loorbach

Systemic change is disruptive: the 'x-curve'



Trade-offs between sustainability outcomes



₫





































Guiding systemic change

- Promote clear direction of change through ambitious visions, targets and missions
- Transformative policy frameworks
- Aligning policies between different domains
- Promoting coherence of actions across European, national, regional and local governance levels



I want Europeans to build the future of our Union. They should play a leading and active part in setting our priorities and our level of ambition.



Enabling innovation and system change

- Many seeds for transitions exist: technologies, social practices, business models, institutions, etc.
- Innovation policy needs to promote diversity, explore impacts and build coalitions of stakeholders
- Diverse policies can help new innovations and practices to spread and compete with established approaches
- Cities as hubs of innovation and networking with the potential to transform systems at local scales
- Governments can promote networking, learning, knowledge sharing





Enabling society wide action and a 'just transition'



Transitions bring surprises, trade-offs and unintended consequences

Requires governance that is anticipatory and adaptive

Diverse policy areas are needed to enable socially fair transitions: sectoral, education, employment, welfare, regional, etc.

Mobilising finance for systemic change

 Aligning public budgets with sustainability goals

Reorienting the financial sector

 Predictable pathways and incentives – getting price right

 Support for experimentation, innovation, upscaling, diffusion



Developing knowledge and skills for transitions







An EU knowledge strategy could help create, organise and use diverse knowledge:

- societal systems actors, lock-ins, trends, etc.
- big data, artificial intelligence
- practice-based evidence: innovations, impacts, successes, failures
- early warning: harms and opportunities
- new skills, infrastructures, institutions





In conclusion

- Europe has opportunities to transform its economy to make it fit for the challenges of the 21st century.
- Sustainability needs to become the overarching principle guiding coherent policies and actions across society.
- Environment and climate policies alone cannot deliver needed change. Enabling transitions requires coherent actions across all levels of government to unleash the creativity and power of citizens, businesses and communities.
- Building on the 'Political guidelines for the European Commission 2019-2024' the EU can take global leadership in achieving transitions if it seizes the opportunity.

