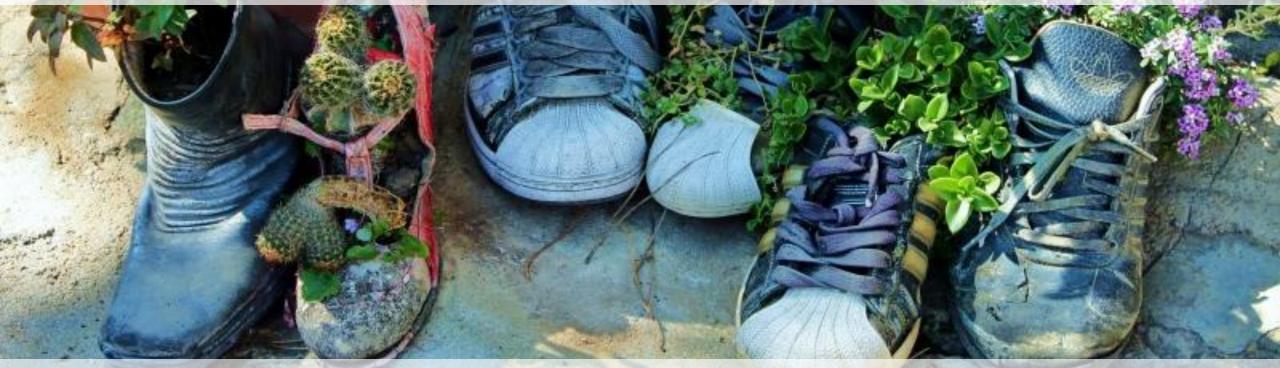
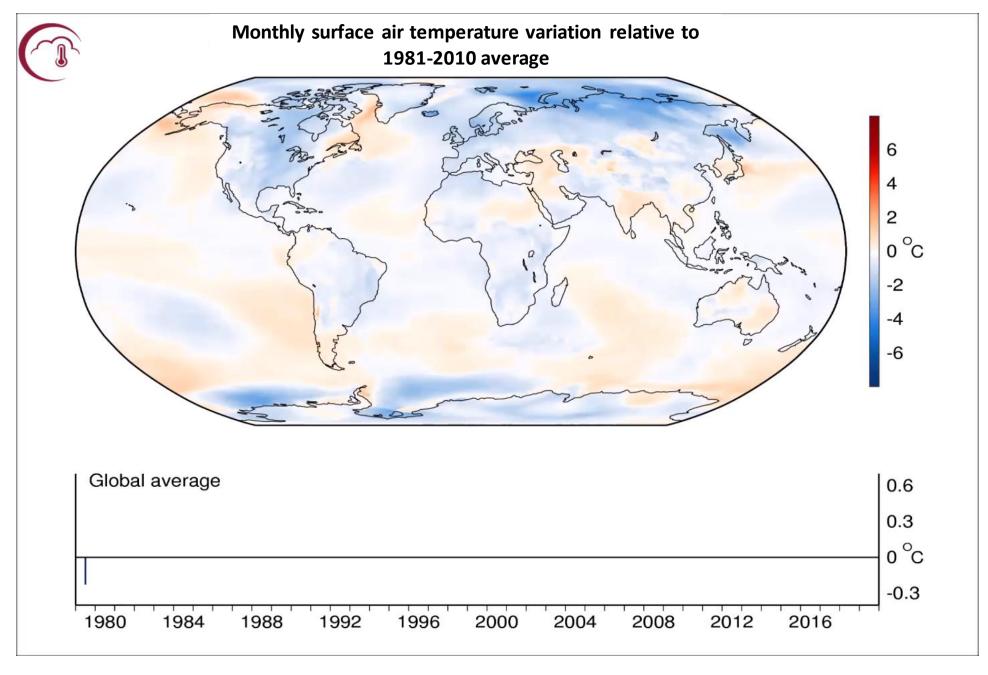
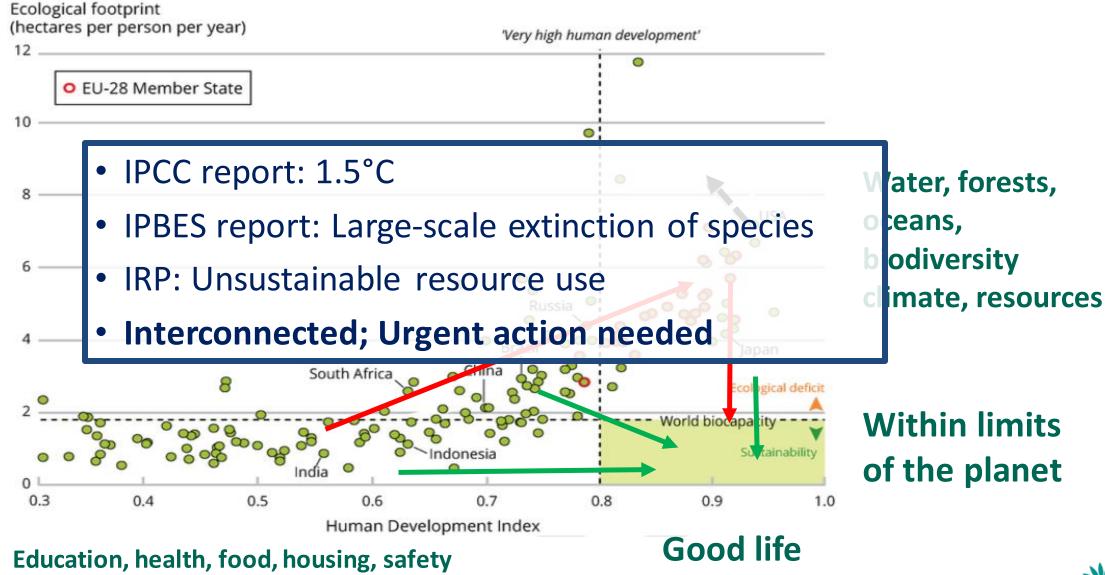
Knowledge, skills and governance approaches for systemic (circular) transitions





Source: Copernicus Climate Change Service

Challenge of 21st century: 10 billion people, 1 planet





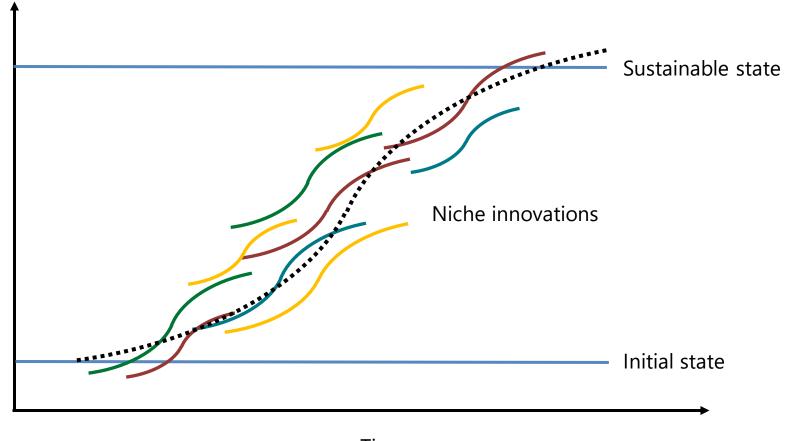






Systemic change involves multiple innovations

Environmental performance

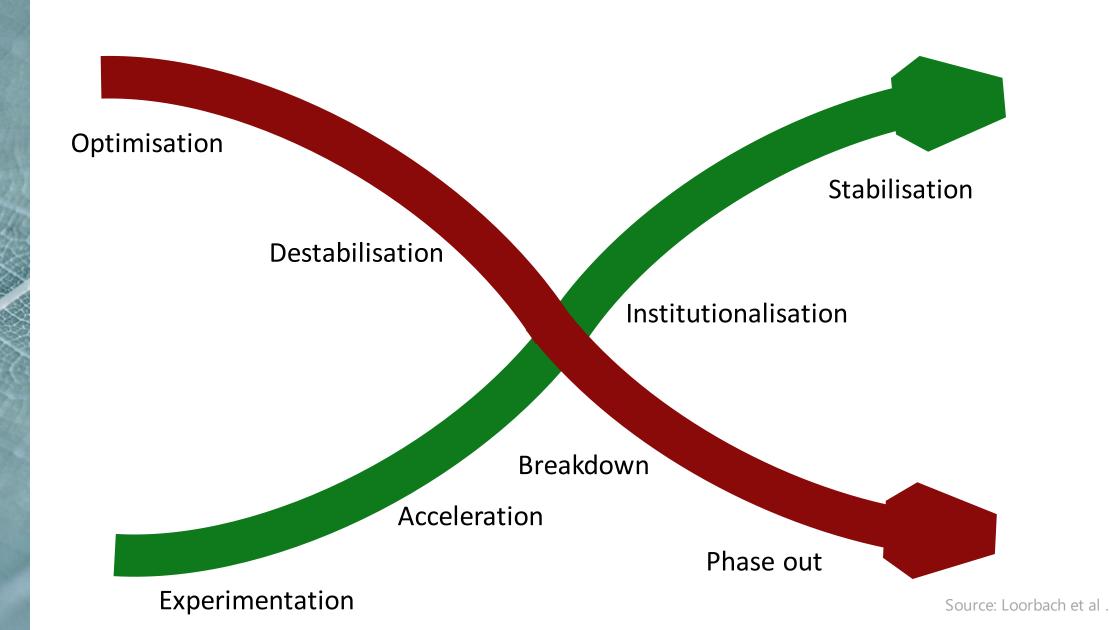


Time

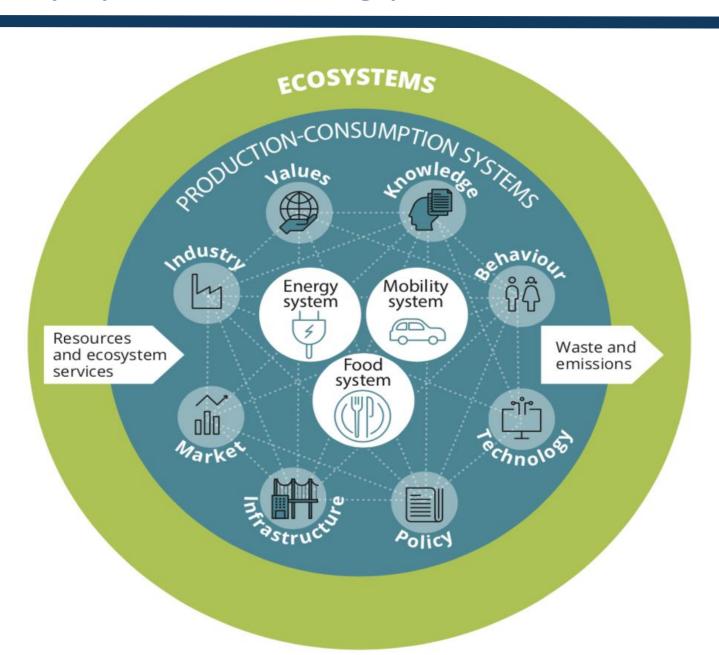
Source: Loorbach



Systemic change is disruptive: the 'x-curve'



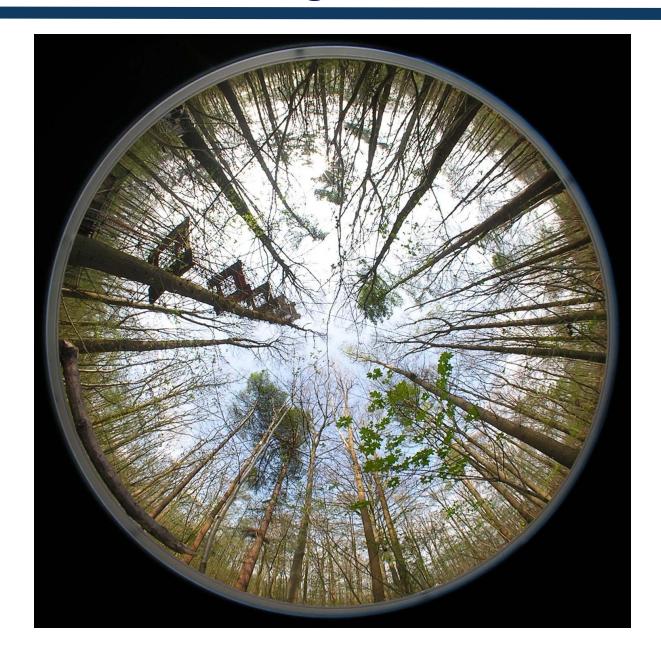
Key systems driving persistent sustainability problems



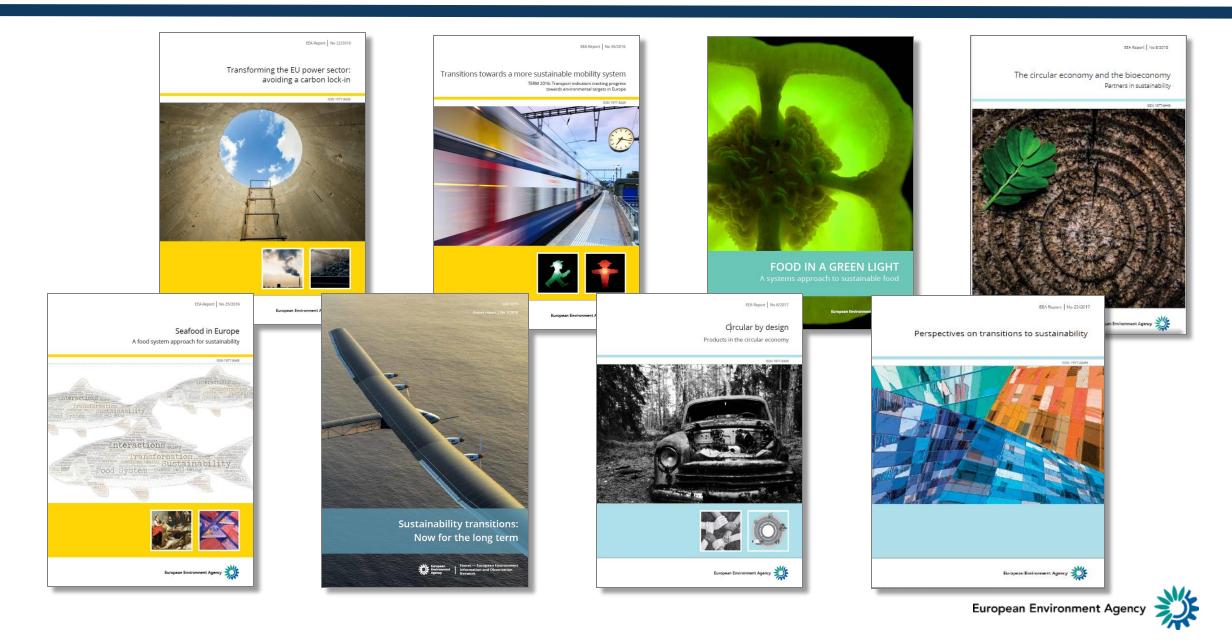
In a circular, low carbon economy:

- Maximum value extracted from resources
- Resource extraction, emissions and waste are minimised

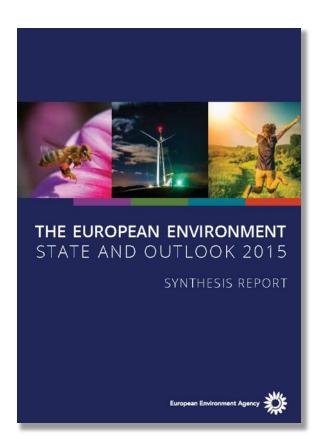
Circular transitions: knowledge to action



EEA knowledge on transitions and the circular economy



SOER 2020: Integrated knowledge on circular economy



Identifies need for more solutions-oriented knowledge





Presents knowledge, skills and governance approaches for sustainability transitions



New circular economy report published today

Examining:

- Circularity in Europe: what do we know?
- Enabling systemic change
- Governance for transitions
- Monitoring circularity in the 21 th century

Download the report:

https://www.eea.europa.eu/publications/circular-economy-in-europe-insights/



Designing products and systems that change behaviours

Probably negative

Increasingly complex products

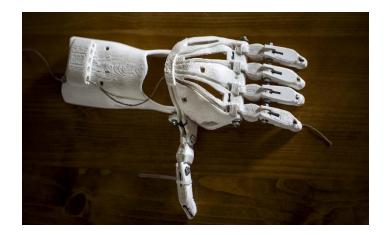


Modular design

Still unclear

Home delivery systems

Internet of things



Sharing economy



3D printing



Markets for recycling

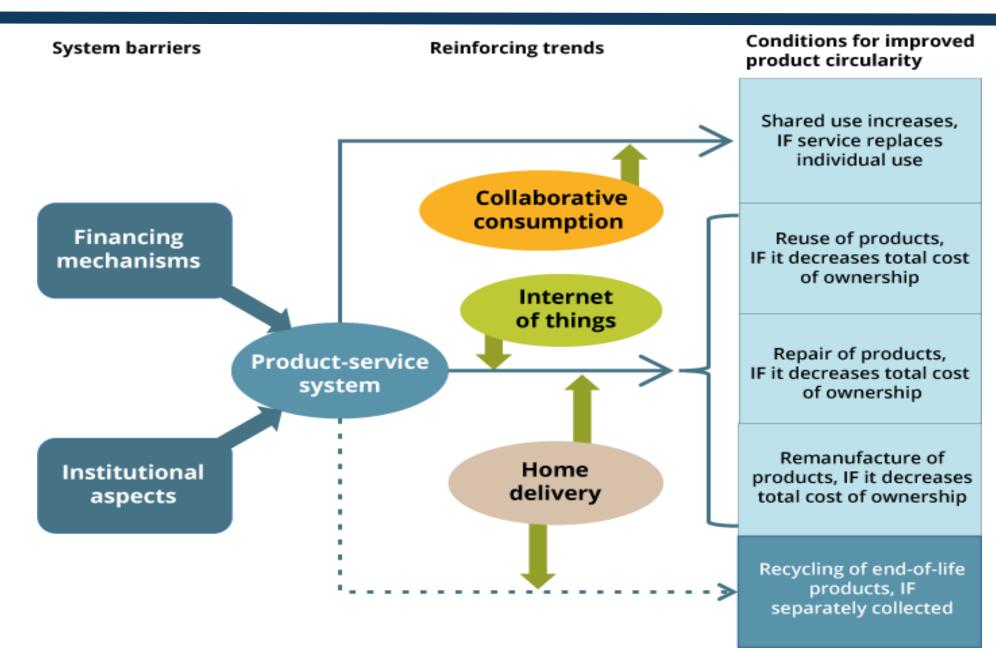






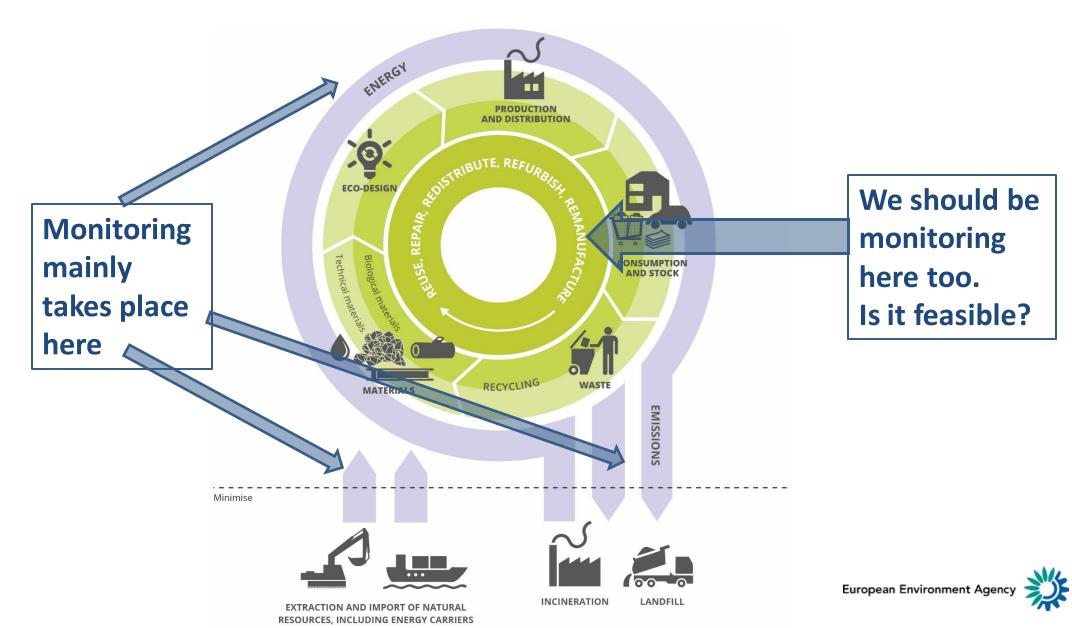


Enabling product circularity: the big "IF"

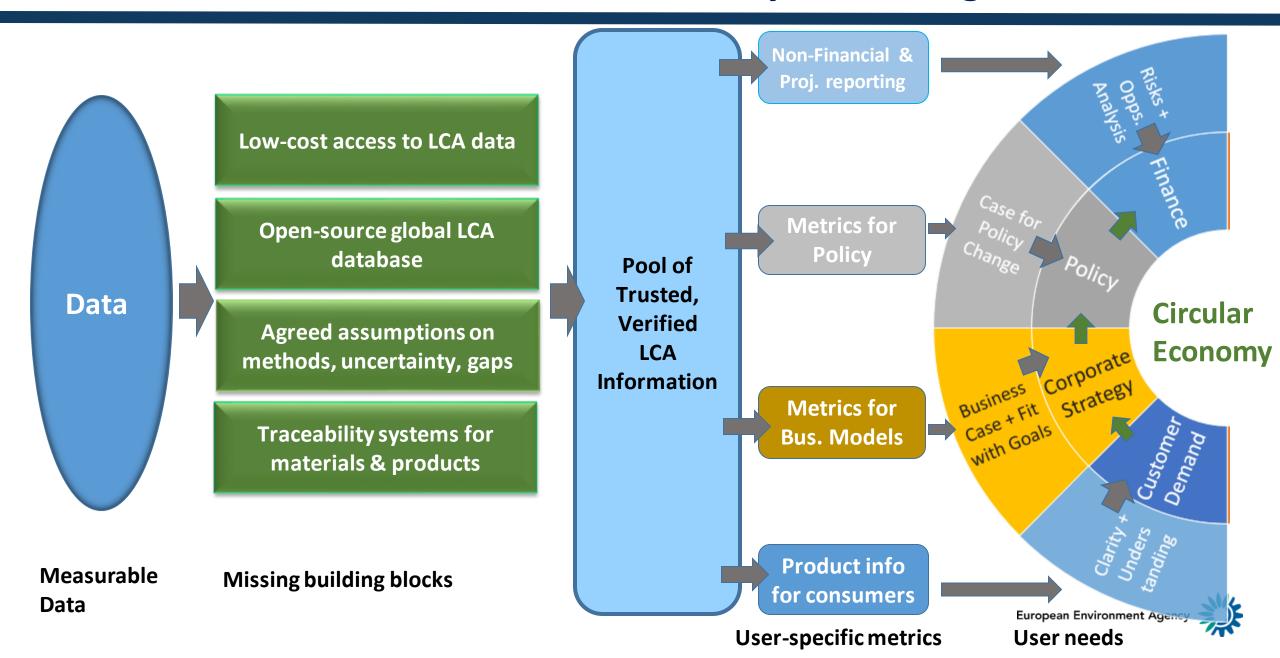




Circular economy monitoring currently not fit for purpose



Data and metrics for the Circular Economy: knowledge to action



Reflecting on the core of the system?



EU policy frameworks begin to address systemic challenges



- Focus on systems, not sectors
- Emphasis on economic transformation
- Long-term targets (2030, 2050 +)
- #EnergyUnion
- Not only environment, also competitiveness, fair access, earnings, jobs, society
- Multiple stakeholders and platforms











Hans Bruyninckx, Executive Director, European Environment Agency
Helsinki, 1 October 2019