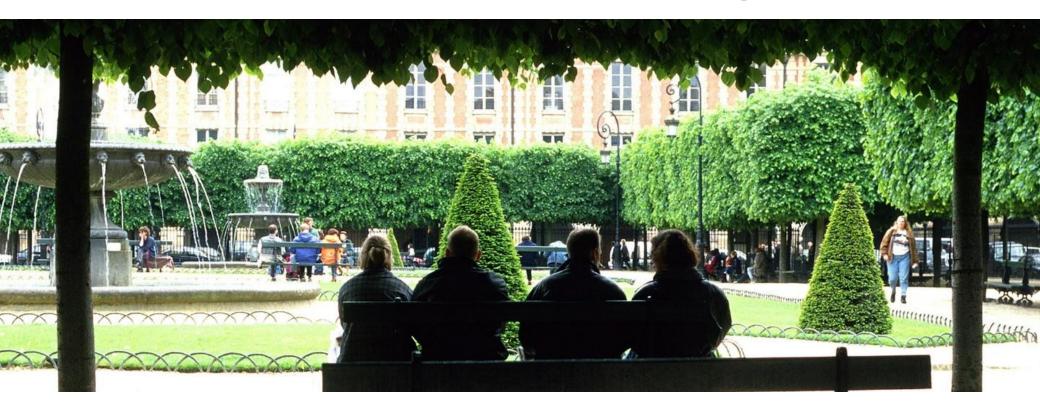
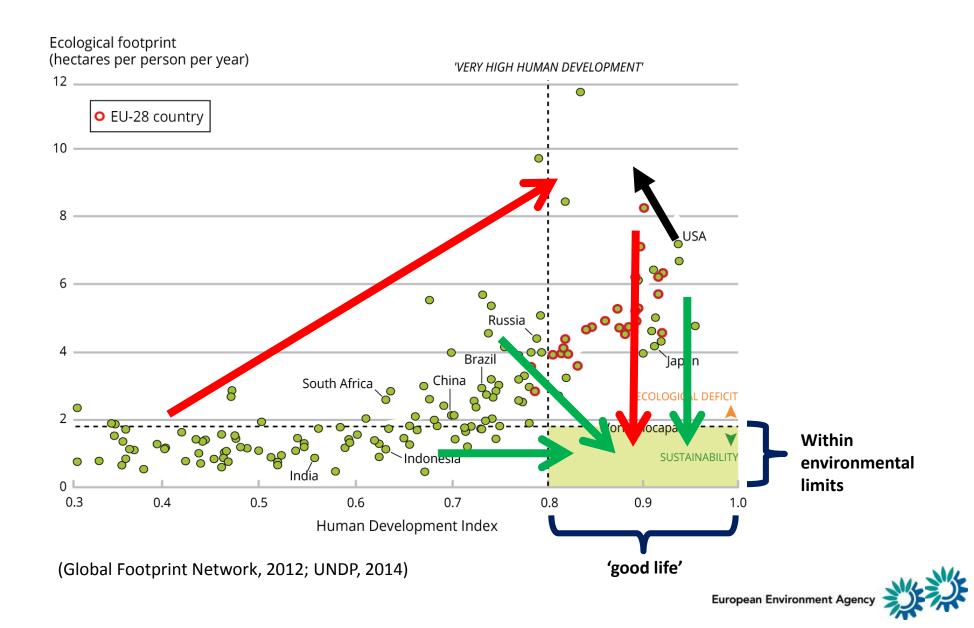
Urban Quality of Life in Europe: Environmental and Climate Challenges



Dr Hans Bruyninckx, 30 June 2017
The Foundation for the Urban Environment (FFUE), Brussels



10 billion people, one planet



Vision of the 7th Environment Action Programme

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

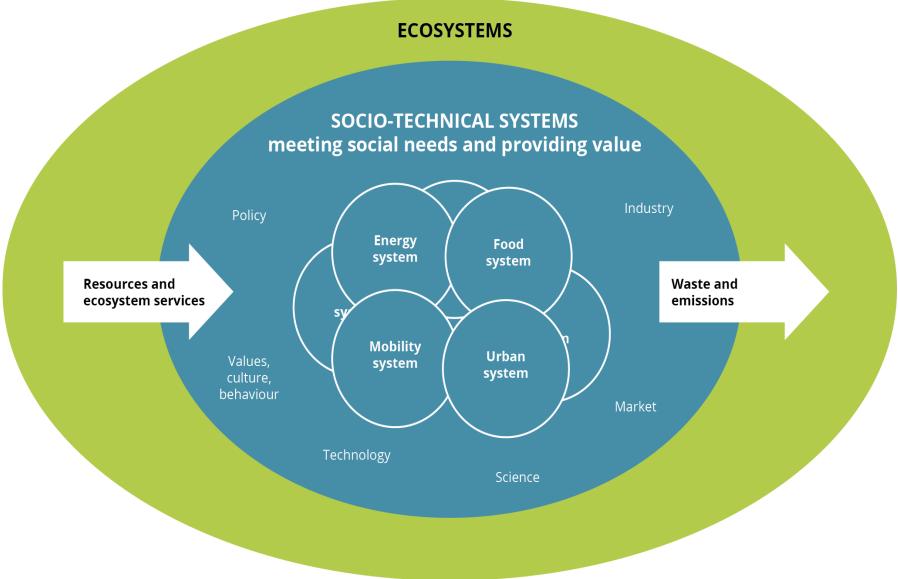
Our prosperity and healthy environment stem from an innovative, circular economy where nothing is wasted and where natural resources are managed sustainably, and biodiversity is protected, valued and restored in ways that enhance our society's resilience.

Our **low-carbon growth** has long been decoupled from resource use, setting the pace for a global safe and sustainable society.'

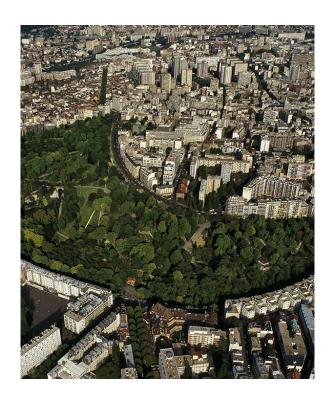
Source: 7th Environment Action Programme, European Commission, 2013



Living well, within the limits of he planet



Challenges can be seen throughout the urban system







Challenge 1: Ecosystems

Challenge 2: Social systems

Challenge 3: The "grey" urban system

The European context



12 PRIORITY THEMES





















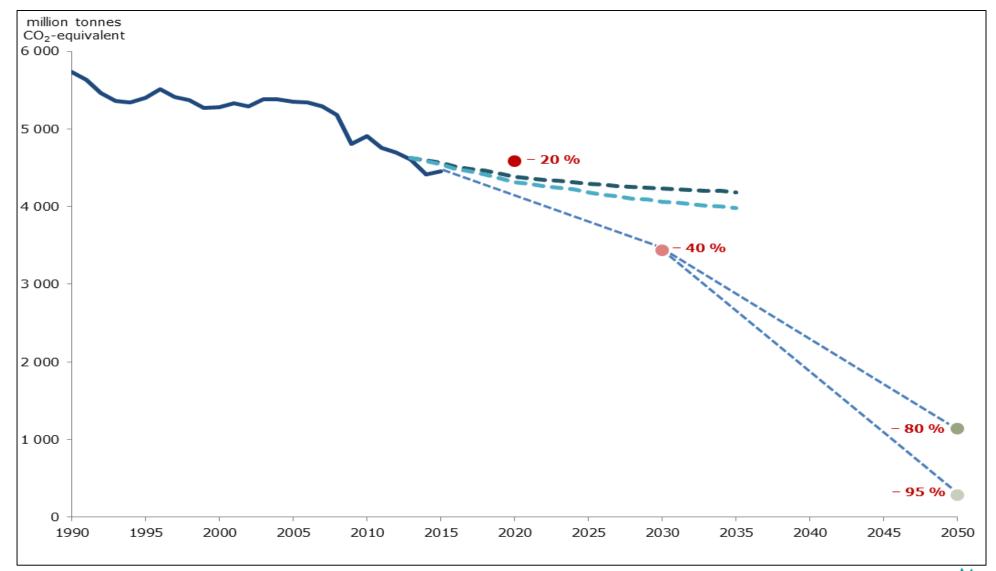
IN LOCAL ECONOMY



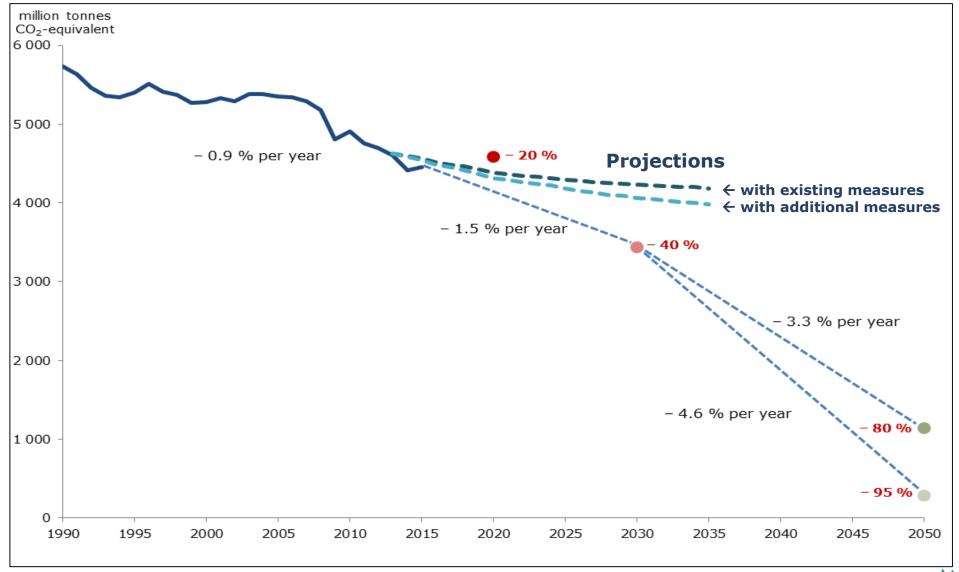


Source: European Commission, 2017

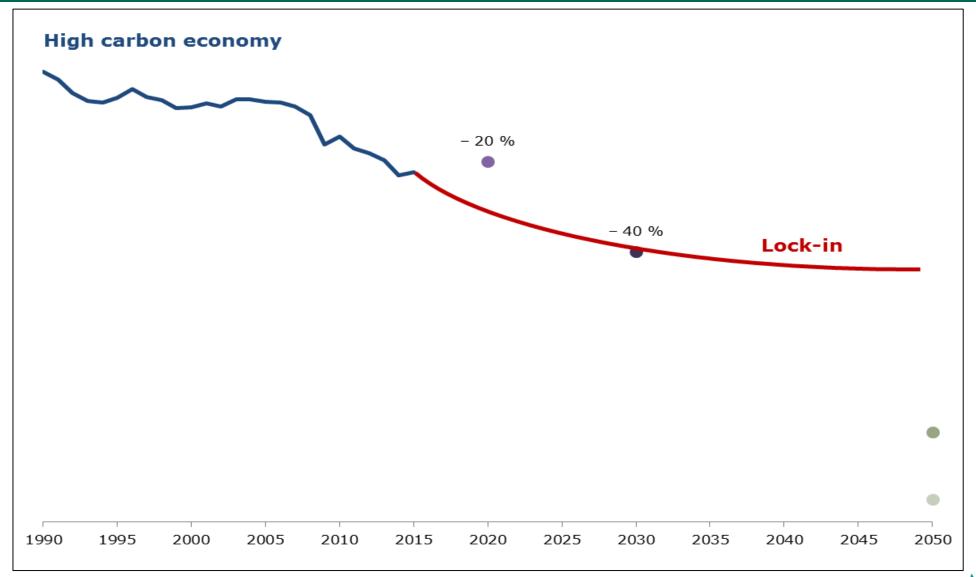
De langetermijnuitdaging: uitstootvermindering versnellen I



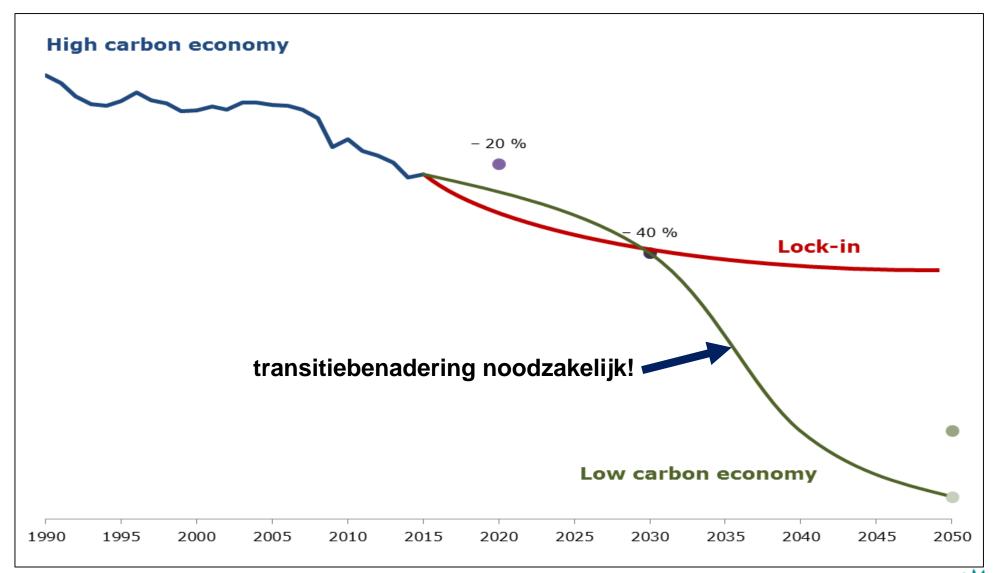
De langetermijnuitdaging: uitstootvermindering versnellen II



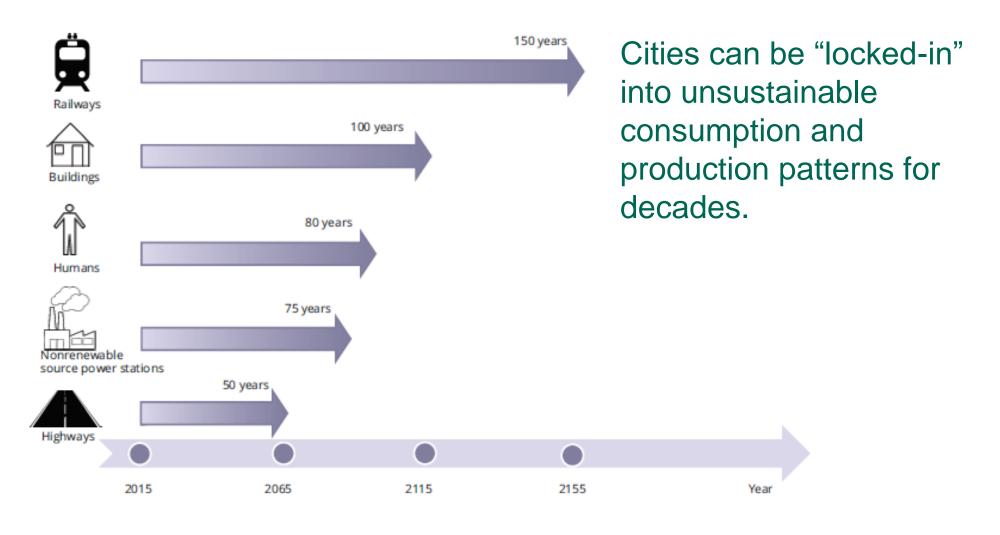
2030 als eindpunt? Gevaar voor "lock-ins"!



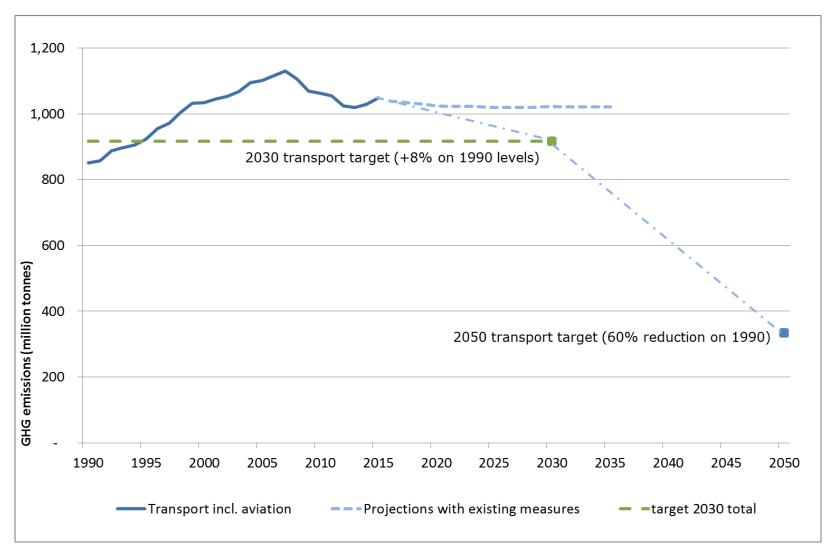
2030 als tussenstap naar 2050



The "grey" urban system

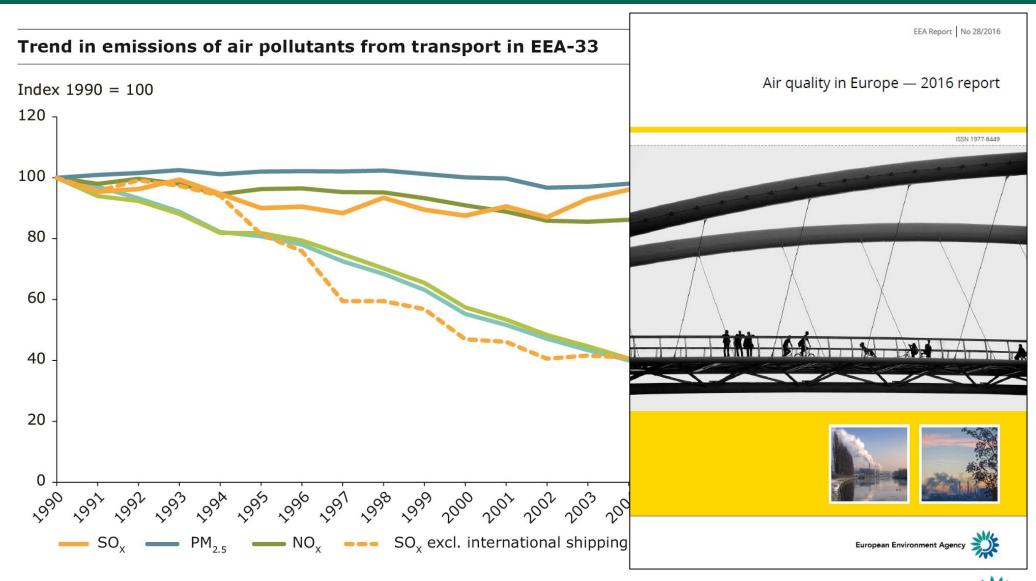


The policy context: EU GHG emissions from transport



Source: EEA, 2017.

More than GHG: emissions of air pollutants



Source: EEA, 2015

Despite reductions PM concentrations have not yet declined to safe levels

Share of urban population exposed to dangerous levels of particulate matter in Europe

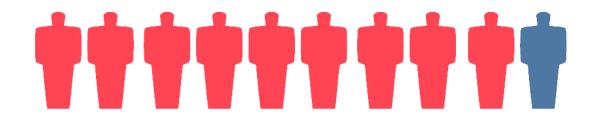
3 out of 10

exposed to exceedances of the EU daily limit value



9 out of 10

exposed to exceedances of the WHO guideline value



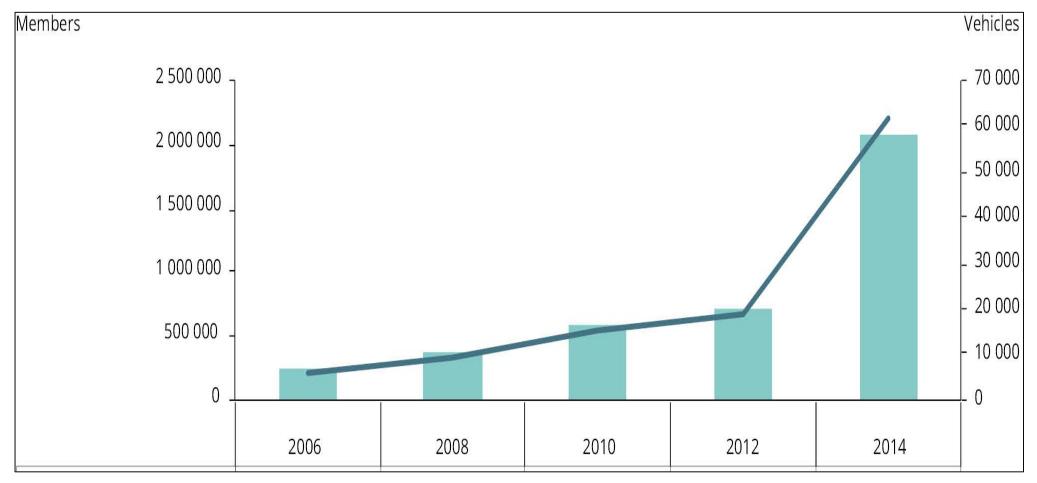
European Environment Agency

Limits to efficiency and technological gains



Niches and policies that can create change

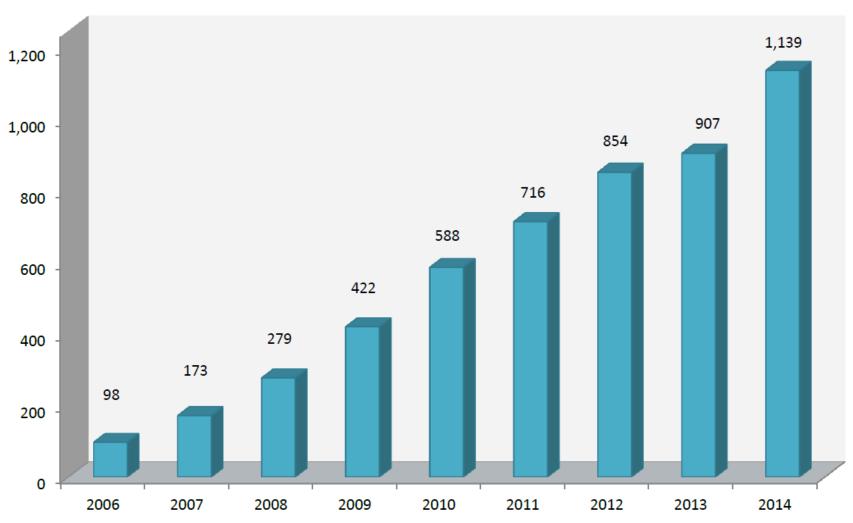
European trends in car sharing



— Members ■ Vehicles

Niches and policies that can create change II

European electric bicycle sales (EU 28) (1 000 units) 2009 – 2014



Ecosystems / green areas inside and around cities

Local climate regulation

Carbon sequestration

Flood regulations



Ecosystem services

Economic/recrea -tional value

Aesthetic values

Groene daken in Hamburg

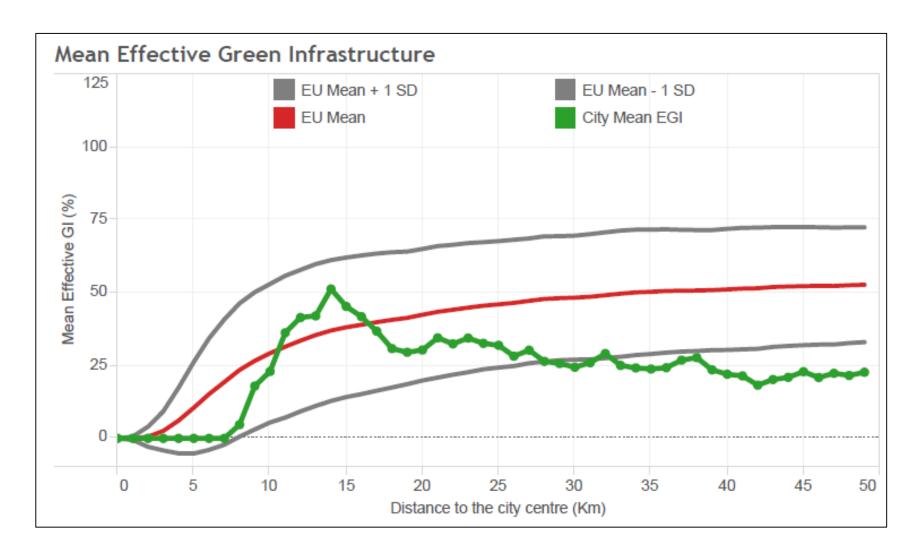


The green roofs programme helps to keep the costs for storm water management manageable.

Visualisation: TH Treibhaus Landschaftsarchitektur; Image: Matthias Friedel



Is Gent een groene stad?



Lock-ins and barriers for change



Systemic approach

- Spatial planning
- (Urban) infrastructure
- Fiscal system
- Pricing of externalities
- R&D
- Lack of long-term vision (Pact idea)
- Behaviour
- Attractive alternatives
- SMART



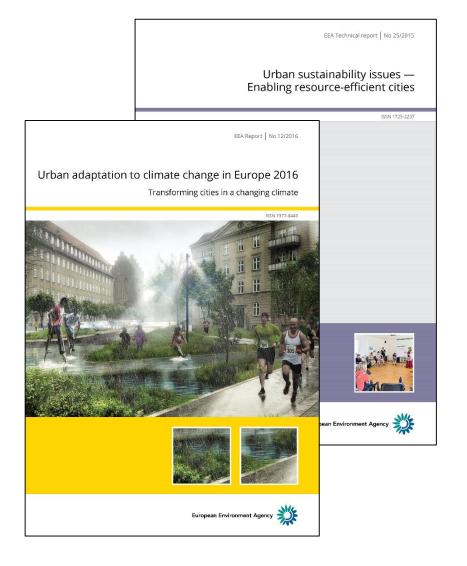
Alternatives?

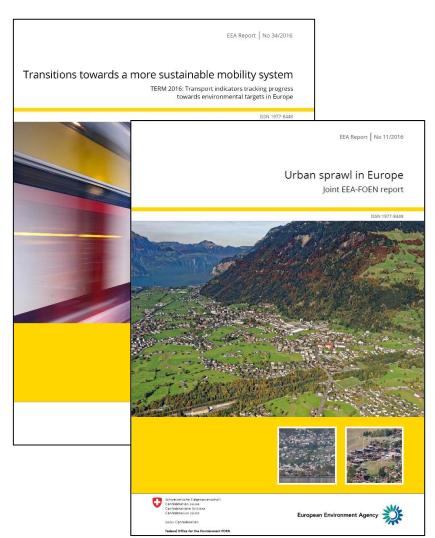


Noodzakelijke en ondersteunende beleidsfactoren

- Consistentie
- Coherentie
- Implementation
- Sense of urgency
- Visionair en wervend

EEA reports on urban issues







Sources: EEA, 2015-2016

Thank you

Hans.Bruyninckx@eea.europa.eu

Sign up to receive EEA news, reports and alerts on your areas of interest at http://eea-subscriptions.eu/subscribe

