

# Smart Cities Concept

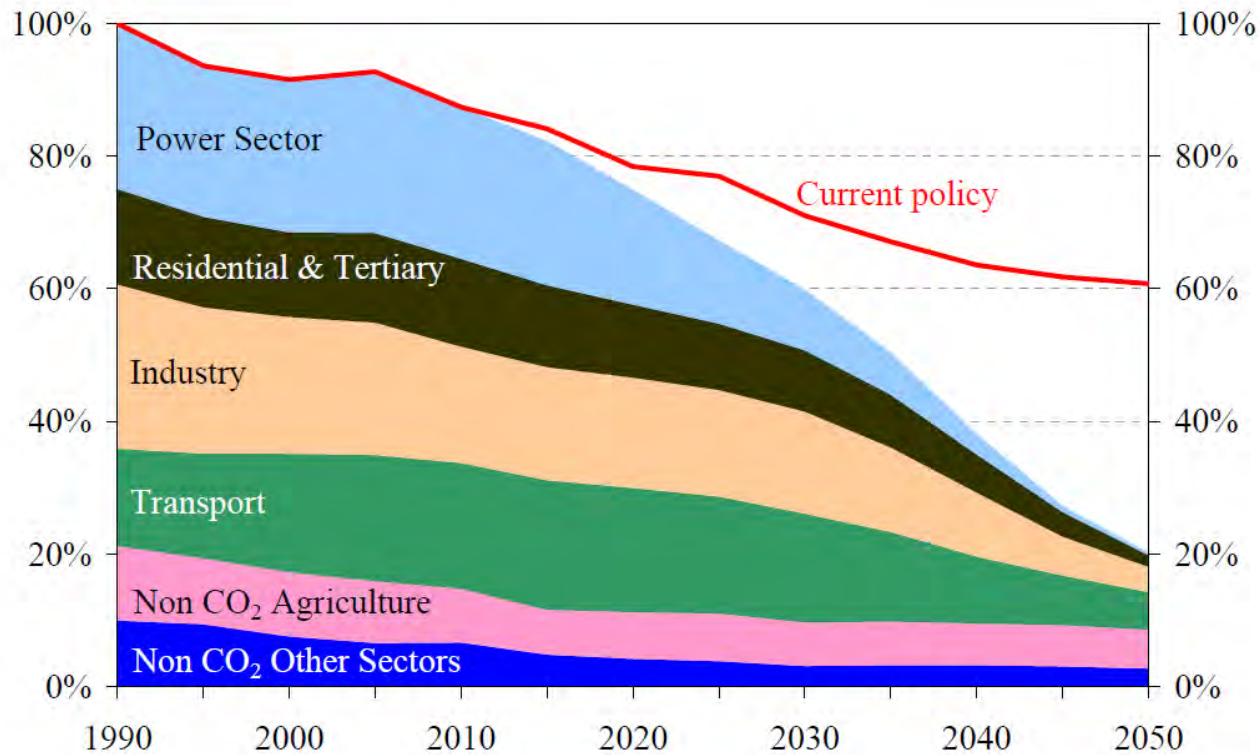
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From Energy Efficient Buildings to Smart Cities

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# Vision 2050 - Low Carbon Economy Roadmap

- 85 % GHG Emissions

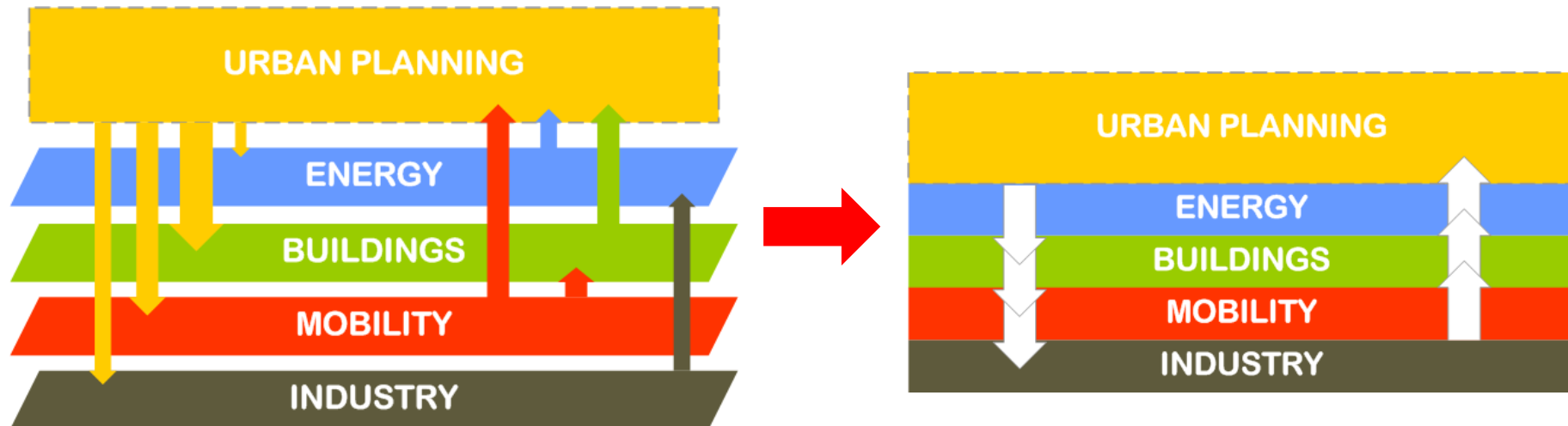


EU GHG emissions towards an 80% domestic reduction (100% =1990)

# What do we need to achieve

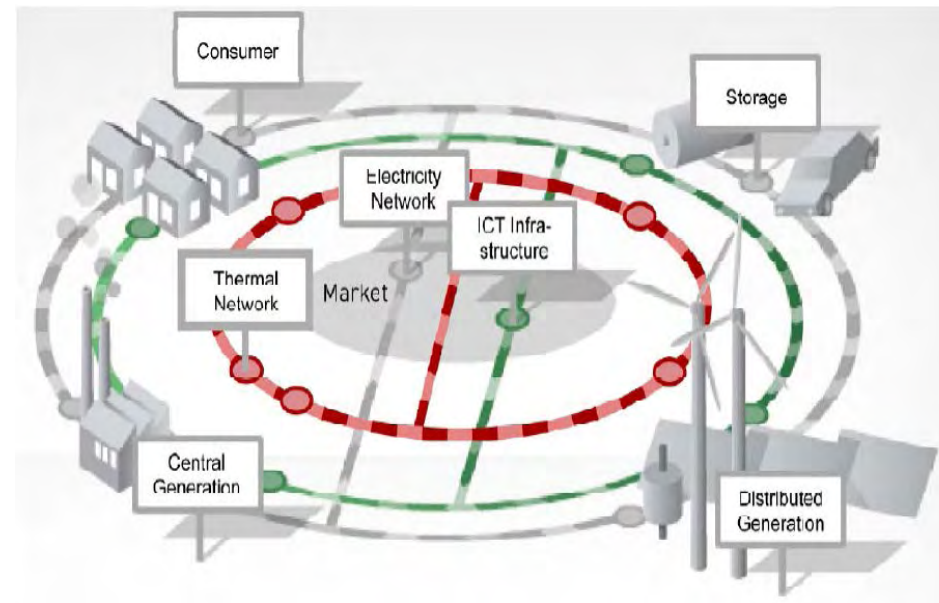
## Understanding + optimising the **city** on a system level ...

....by developing methods and concepts which focus on a comprehensive approach targeting all energy related aspects of a city



# Radical Innovation for Urban Energy Supply

- Smart Cities require new approaches
  - Fully integrated designed and intelligent managed energy systems
  - From a single technology perspective to multi technology perspective
  - Multi-stakeholder involvement
  - Transdisciplinary approaches



# Smart City Concept

ICT & Energy Technologies are merging  
Intelligent energy management on regional & city level

## **New integrated planning approach**

- Energy Planning
  - Smart Grids
  - Active Buildings
  - Supply Technologies
  - Mobility
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- New Business Models
  - New innovation processes (testing field, stakeholders etc)



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