



SUSTAINCITY final meeting

Micro-simulation for the prospective of sustainable cities in Europe

ETHZ, Zurich, 19 April 2013

EU Research and Innovation on Land-Use: Towards Horizon 2020

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*** Personally speaking**

EU activities on Land-Use



EU policy context on Cities

- **“Subsidiarity” and concrete actions**
- **Several Commission DGs interest**
- **European Parliament (MEP constituencies)**
- **Committee of the Regions**
- **Regional and urban representation in Brussels**
- **Pan-European city associations**

20 years of EU efforts for resilient cities

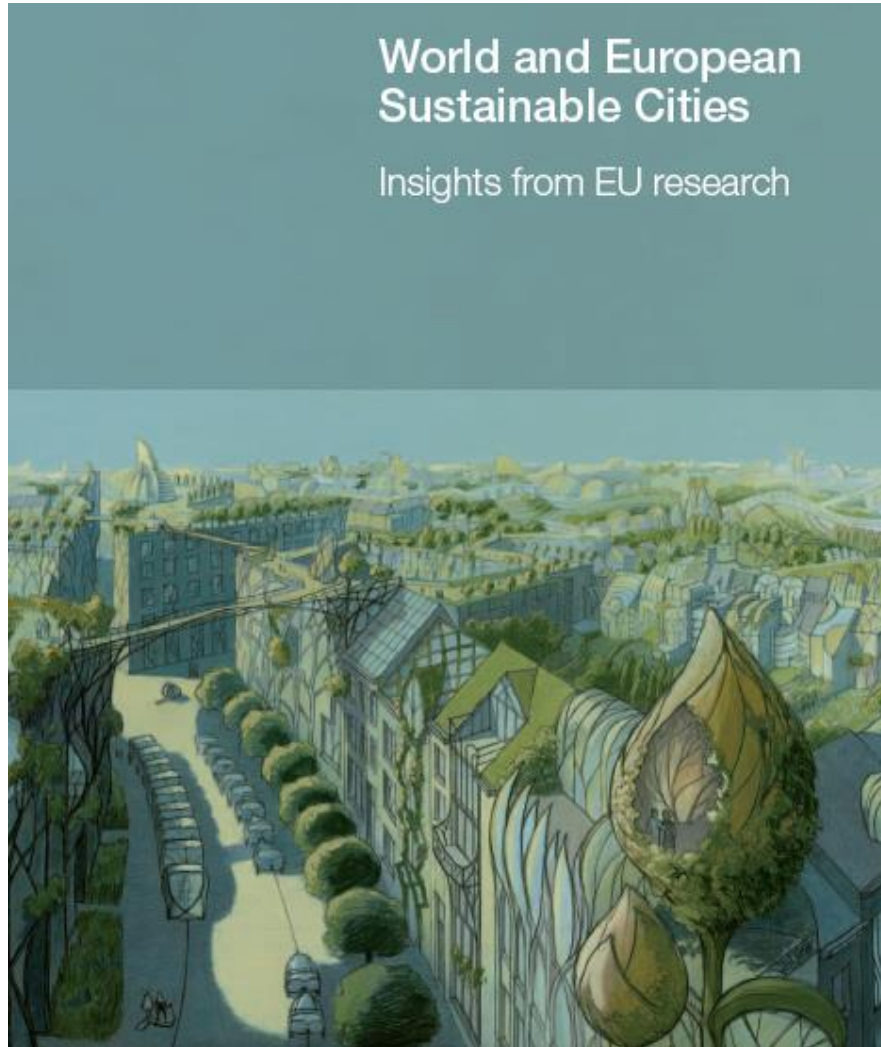
- **URBAN** Community Initiative – ERDF (DG XVI – REGIO)
- **City of Tomorrow** Key Action in FP5 and Urban sustainability in FP6 (DG RTD)
- **Sustainable cities** (DG ENV)
- **CONCERTO** and **CIVITAS** for energy, efficiency, renewables and clean transport (DG TREN)
- **Projects on Cities** in the programmes “Environment” and “Socio-economic Sciences and Humanities” in FP7 (DG RTD)
- **Covenant of Mayors** (DG TREN)
- **EU Innovation Partnership *Smart Cities and Communities*** (DG ENER and DG MOVE)
- **Joint Programming Initiative – *Urban Europe*** (MS)



European
Commission

World and European Sustainable Cities

Insights from EU research



Source: EC; DG RTD (image from L. Schuiten)

FP7 - SSH projects

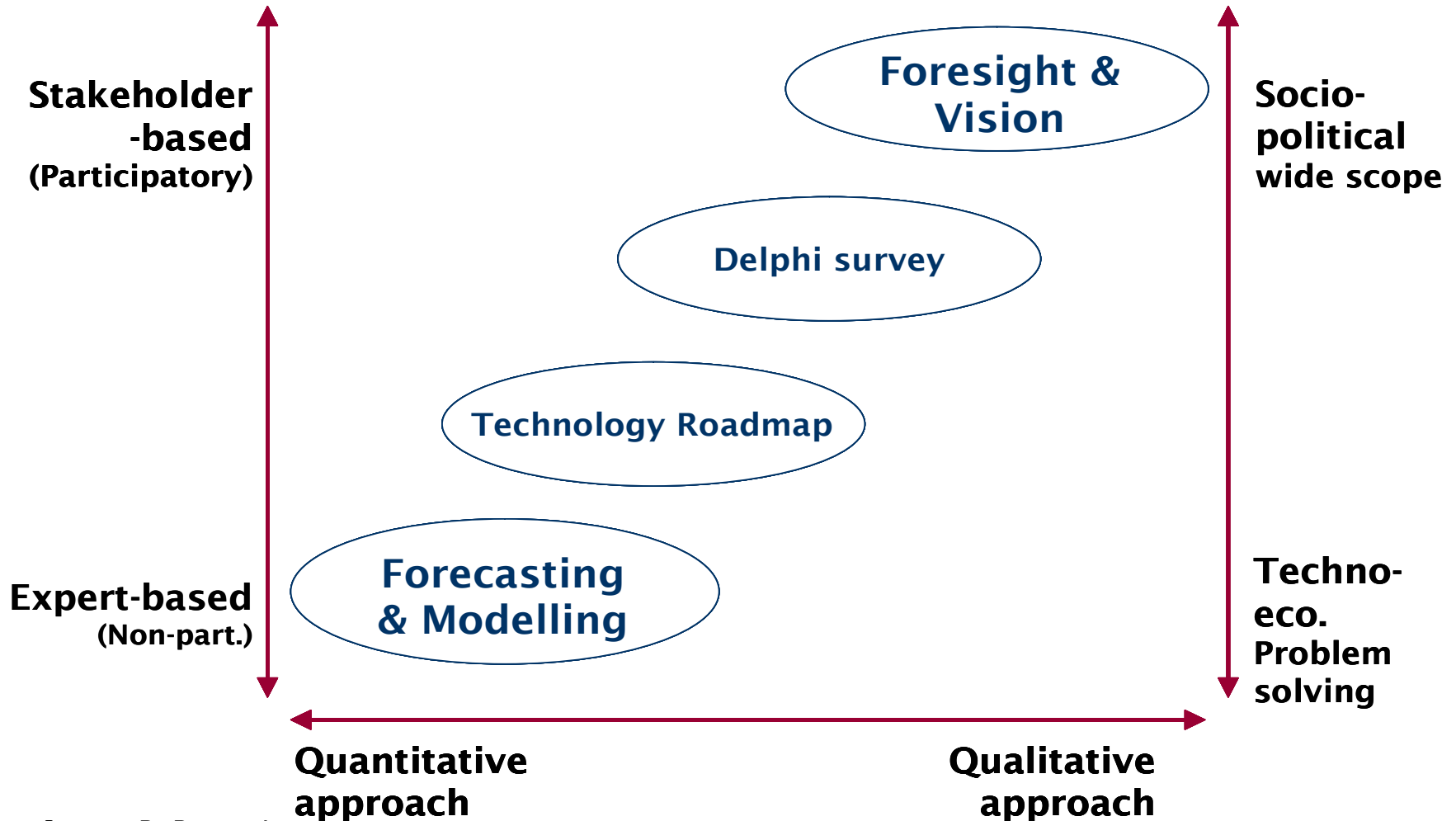
- **SUSTAINCITY - Prospective of sustainable cities in Europe**
- **SOCIAL POLIS - Social platform on cities and social cohesion**
- **CHANCE2SUSTAIN - Urban chances: city growth and the sustainability challenge; growing cities in growing economies**
- **PLACES - Platform of local authorities and cities engaged in science**
- **GEITONES – Interethnic tolerance and neighbourhoods integration in European urban spaces**
- **SPREAD - Social platform on sustainable lifestyles**

FP7 - SSH projects

- **URBACHINA - Sustainable urbanisation in China: historical and comparative perspectives; mega-trends towards 2050**
- **SHRINK SMART - The governance of shrinkage within a EU context**
- **DIVERCITIES – Governing urban diversities**
- **LOCALISE – Local worlds of social cohesion**
- **COPE – Combating poverty in Europe – Inclusion through participatory multilevel governance**
- **WILCO – Welfare innovations at local level**
- **CITISPYCE – Combating inequalities for young people in cities**

Foresight and Forecast

Methods: Foresight and Forecast



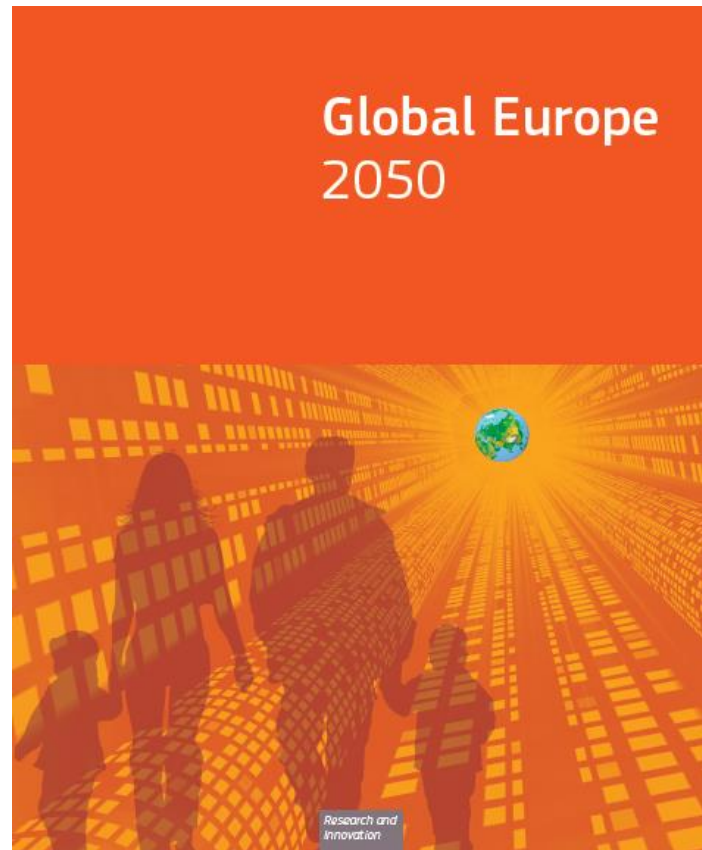
Global Europe 2050 Scenarios

- ***Nobody cares***
 - ***Global urbanization***

- ***EU under threat***
 - ***Increasingly vulnerable and unsustainable cities***

- ***EU Renaissance***
 - ***A Polycentric Europe***
 - ***Sustainable cities***
 - ***Smart and sustainable mobility***

Global Europe 2050



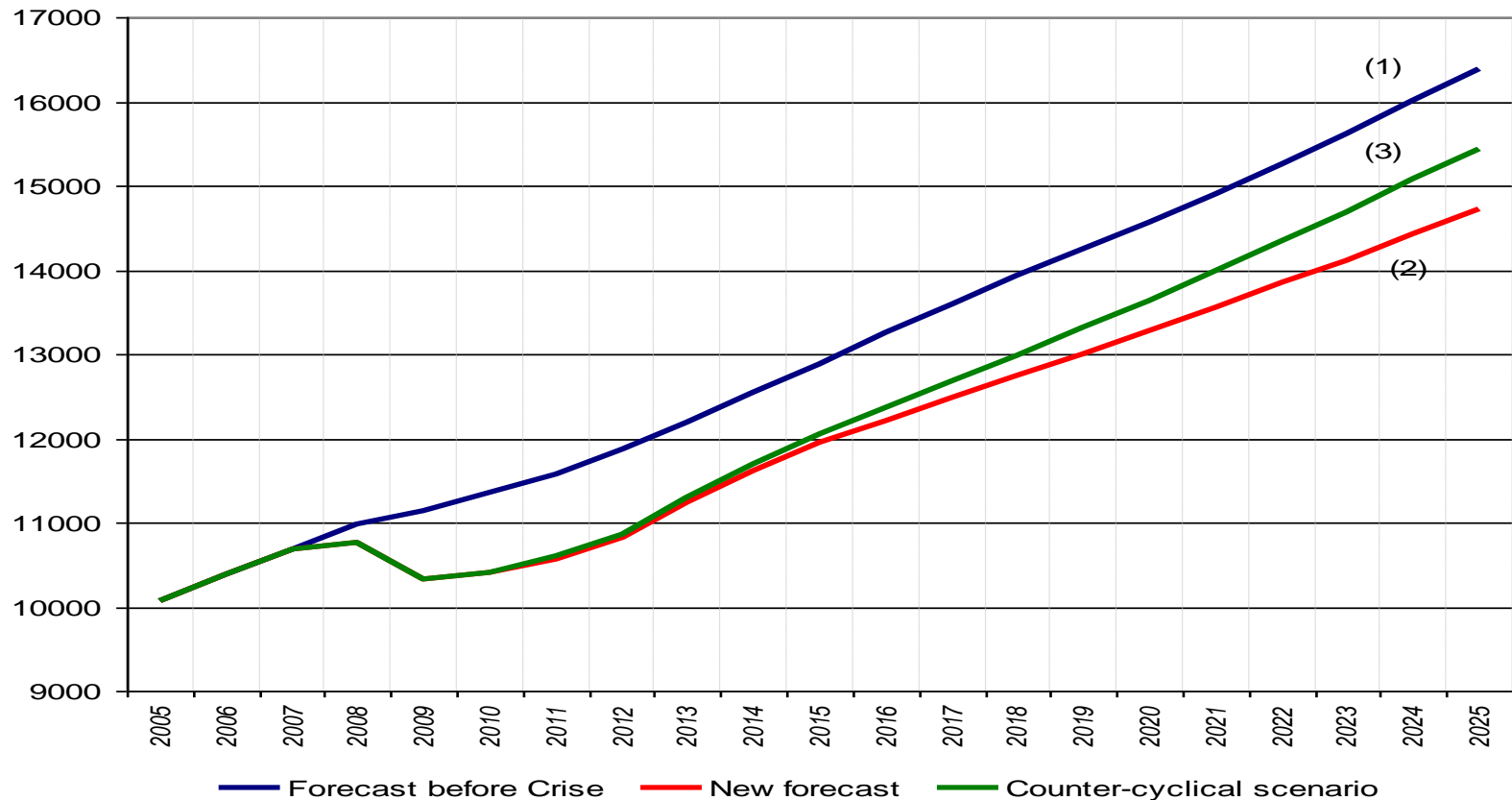
http://ec.europa.eu/research/social-sciences/pdf/global-europe-2050-report_en.pdf

Innovation

- **Technological innovation**
But the value of manufactured products is increasingly based on intangibles
- **Open innovation**
Firms do not develop innovation in a closed system
- **Global innovation**
Not only the production but also the innovation networks are now globalized
- **Social innovation and demand-side innovation**
Social scope, customer's-employee interface, marketing and organisational innovation

Role of R&I (3% GDP target)

Evolution of GDP (Billion € 2000)





European
Commission

Horizon 2020

EU budget 2014-2020 & Horizon 2020

Commission proposals

29 June 2011 & 30 November 2011

MFF
€ 1,025 bn

Horizon 2020
€ 80 bn

European Council conclusions

8 February 2013

MFF
? € 908 bn ?

Horizon 2020
? € 70 bn ?

The next EU R&I FP: Horizon 2020

- **Excellent science**
- **Industrial leadership**
- **Societal challenges**

Horizon 2020 Societal Challenges

Health, demographic change and wellbeing

European **bioeconomy challenges**: Food security, sustainable agriculture and forestry, marine and maritime and inland water research

Secure, clean and efficient **energy***

Smart, green and integrated **transport**

Climate action, **resource efficiency** and raw materials

Inclusive, innovative and reflective societies

Secure societies: Protecting freedom and security

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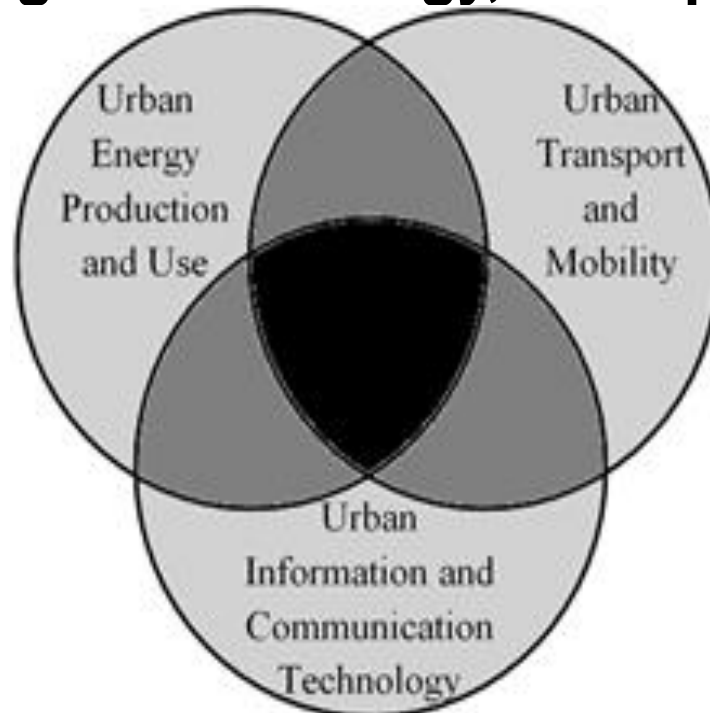
Does not include ITER

Resilient cities

Horizon 2020 opportunities

SC 3.1.3 Foster EU Smart Cities & Communities

Convergence of Energy, Transport and ICT



Resilient cities

Horizon 2020 opportunities

SC 4.1.3 Improving transport & mobility in urban areas

- **Interaction between transport & other urban systems**
- **New mobility concepts, transport organisation, multimodality, innovative vehicles and urban public services**
- **Planning solutions to reduce congestion, pollution and noise**

Resilient cities

Horizon 2020 Societal Challenge 6

6.1.5 Innovative spatial and urban planning and design

- **Sustainable, open, innovative & inclusive urban design**
- **Dynamics of urban societies and social changes**
- **Public spaces within cities (social inclusion, less crime)**
- **Reduce pressures on natural resources & eco. growth**
- **Cities as hubs of innovation**
- **Forward-looking vision**