

FUTURE POLICY MODELLING (FUPOL) MAY 2012

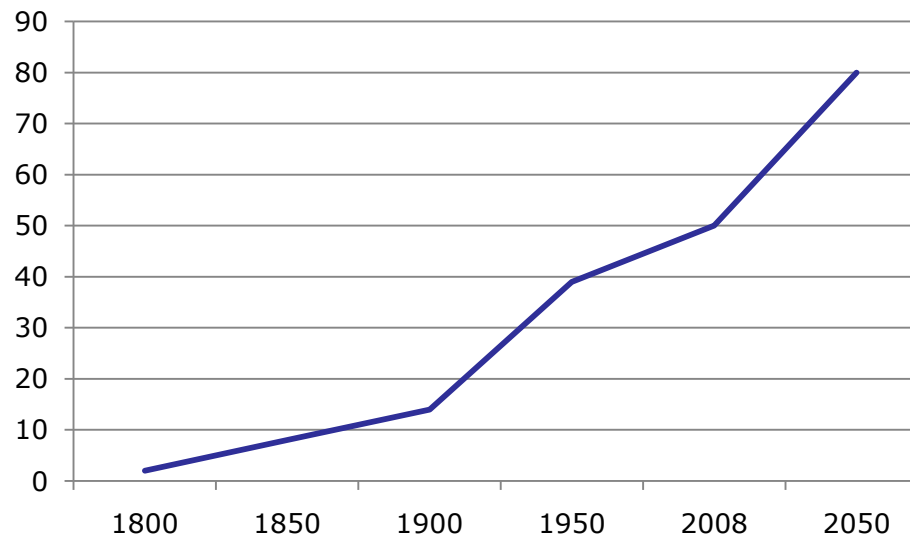
FUPOL: Facts and Figures

- FP7 Research Project 2011 – 2015 with a budget of 9,0 Mio EUR
- Objective: An **integrated governance model** for **cities** based on **social media policy simulation** and related **IT tools**
- Good balance of international ICT companies, universities and political institutions
- 17 Partners from Austria, Croatia, China, Cyprus, France, Germany, Italy, Latvia, Romania, Spain, UK



Starting point: Urbanization as a 21st century megatrend

- 1800: 2 percent of the world was urban.
- 1900: 14 percent urban.
- 2008, the world crossed the 50 percent threshold.
- 2050, it is expected that the world will be 80 percent urban.



Resulting urban policy challenges and topics as a project focus

2011/2012

Land Use Policy



Urban Sprawl
Efficient land use

Housing Policy



Affordable Housing
Slums

Integration Policy



Segregation
Exclusion

2012/2013
(currently being evaluated)

Environment



Pollution
Low Carbon

Tourism Policy



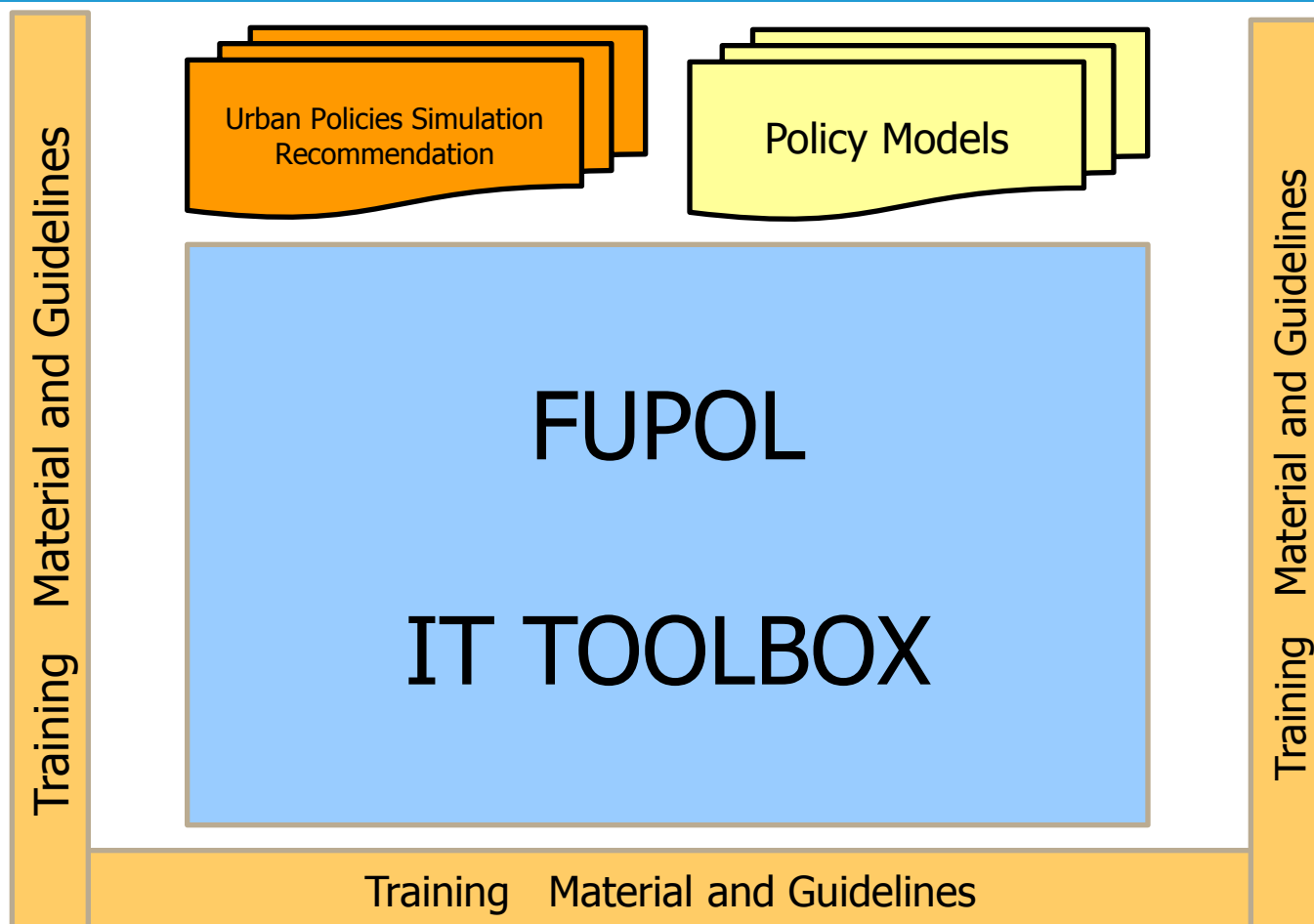
Sustainable
Tourism

Budget Policy

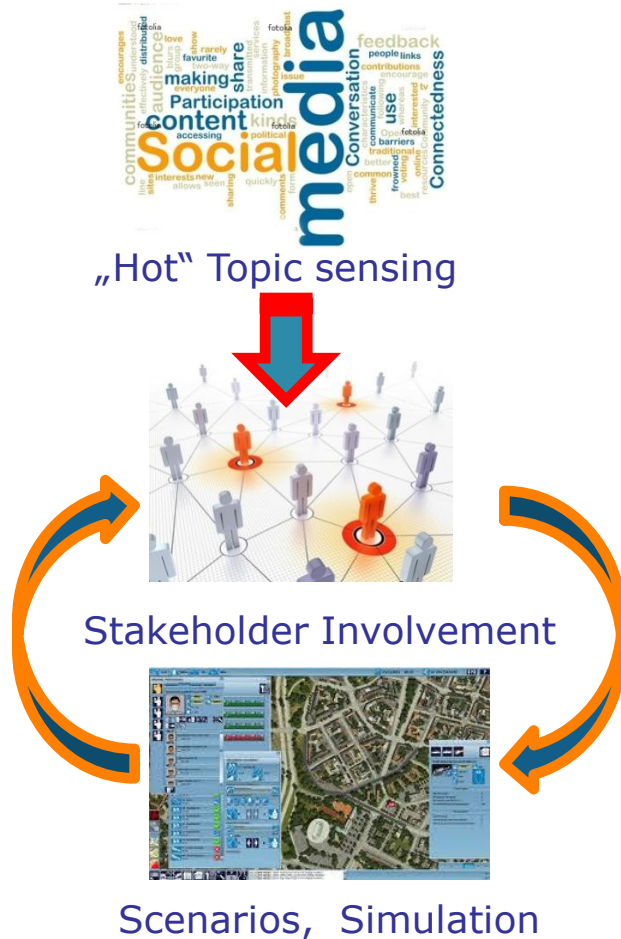


Participative Budgeting
Impact Forecast

Objective: A comprehensive solution to support policy design



Application Scope: Policy Design Process (simplified)



Automatically collect, analyze and interpret opinions expressed on a large scale from the Internet

Involve Stakeholders through Multichannel social computing and crowd sourcing to change the way politicians communicate with citizens

Simulate the effects of policies and laws and to assist governments in the whole policy design process and get feedback again

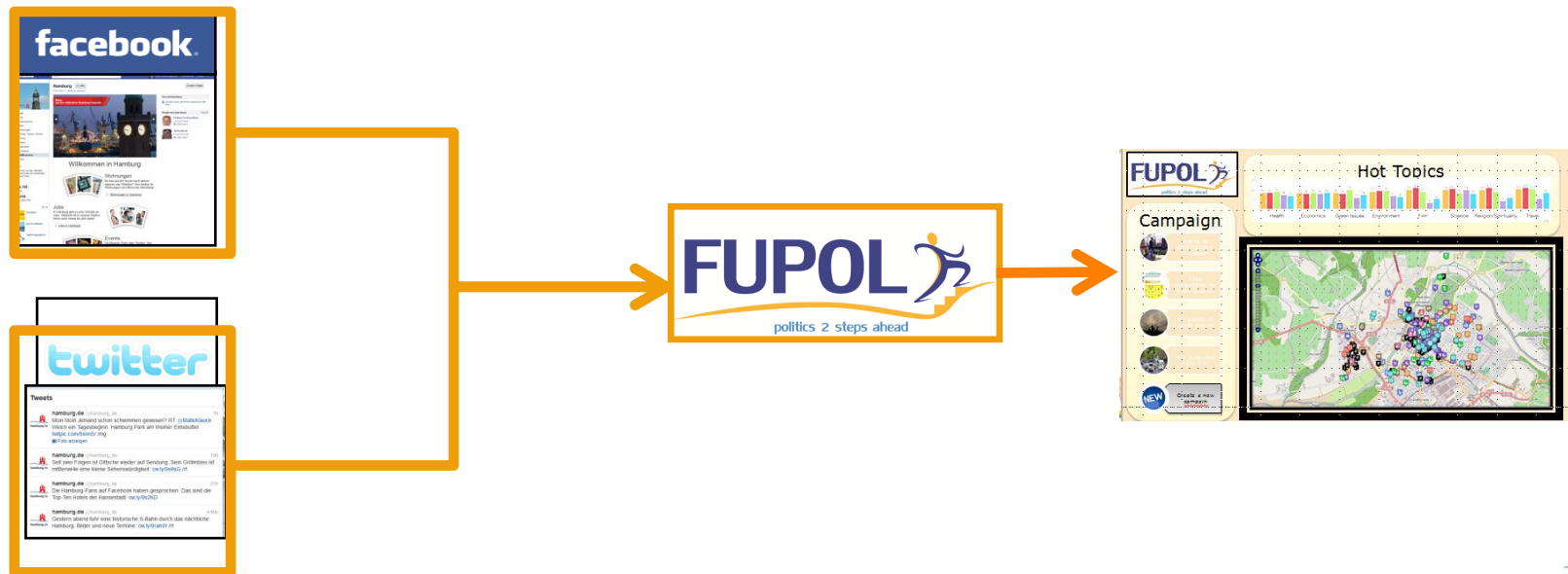
Automatically collect and analyze opinions from social media

- What is the current concern of citizens „**Hot Topics**”
- Social Media offer new opportunities complementing „traditional” channels such as surveys, face to face meetings



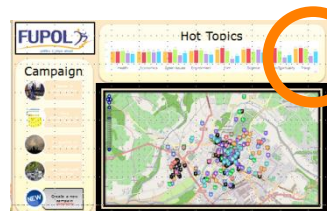
Backend to existing social media presence of a city

- **Hot Topic Sensing** complements existing social media presence
- Backend to automatically analyze messages and group them
- FUPOL method based on statistical algorithms (LDA) and machine learning – works with any European language



Select priority topic and initiate public deliberation

- Decision maker selects priority topic
- Initiates public discussion through various social media
- „Single Window“ through central dashboard



Malibu Square
Renovation



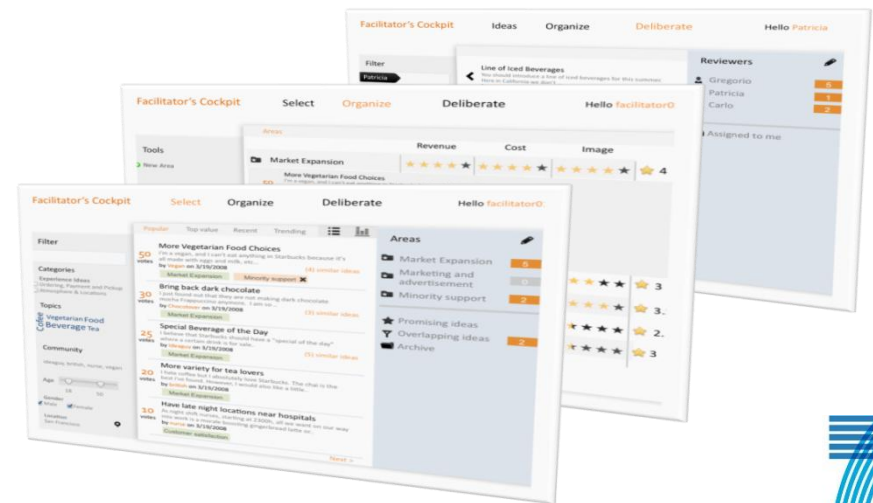
central
dashboard

We intend to renovate
Malibu square,. What
should be done ?
Send us your ideas !



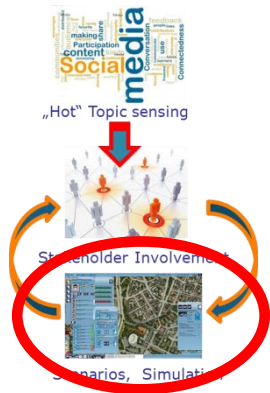
Crowdsourcing : Get feedback and ideas from e-citizen

- Location based feedback from e-citizens
- Rating and selection of best ideas with idea management system
- Improves acceptance by e-citizen

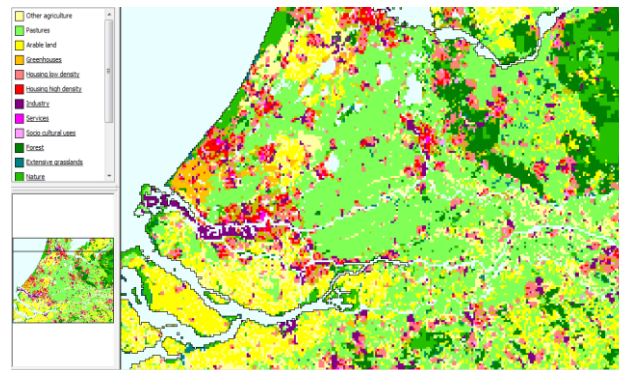


Simulate and optimize scenarios

- Simulation: Anticipate the impact of policies
- More transparency for decision makers, administration and citizen

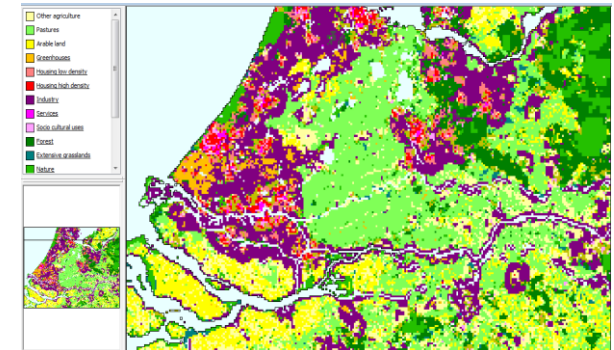


Land Use Schiphol 2012



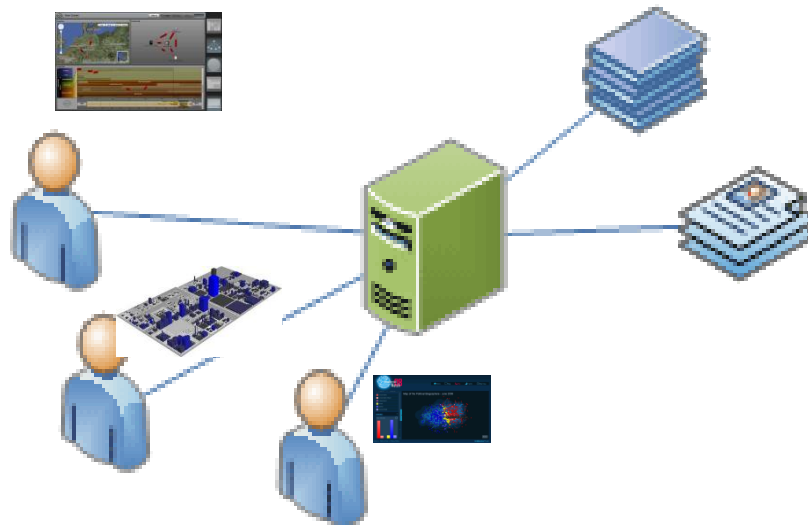
Source: RIKS

2030 after implementing a policy to attract industrial investment



Find and visualize knowledge to evaluate scenarios

- FUPOL-Knowledge database
- Identify and visualize urban data (statistics)
- Identify related studies
- Find best practice
- Evaluate scenarios



Implementation strategy (I)

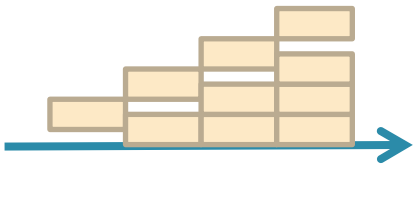
User driven innovation

- User driven innovation means
 - thorough understanding of requirements and current challenges in city administrations drives R & D
 - close contact to pilot cities and potential users in other cities through F2F meetings and workshops
 - Major Cities of Europe (www.majorcities.eu) in the consortium



Implementation strategy (II)

Agile based on SCRUM



- **Incremental delivery** of **working software**
- Continuous multi-level **integration**
- High level of **test automation**

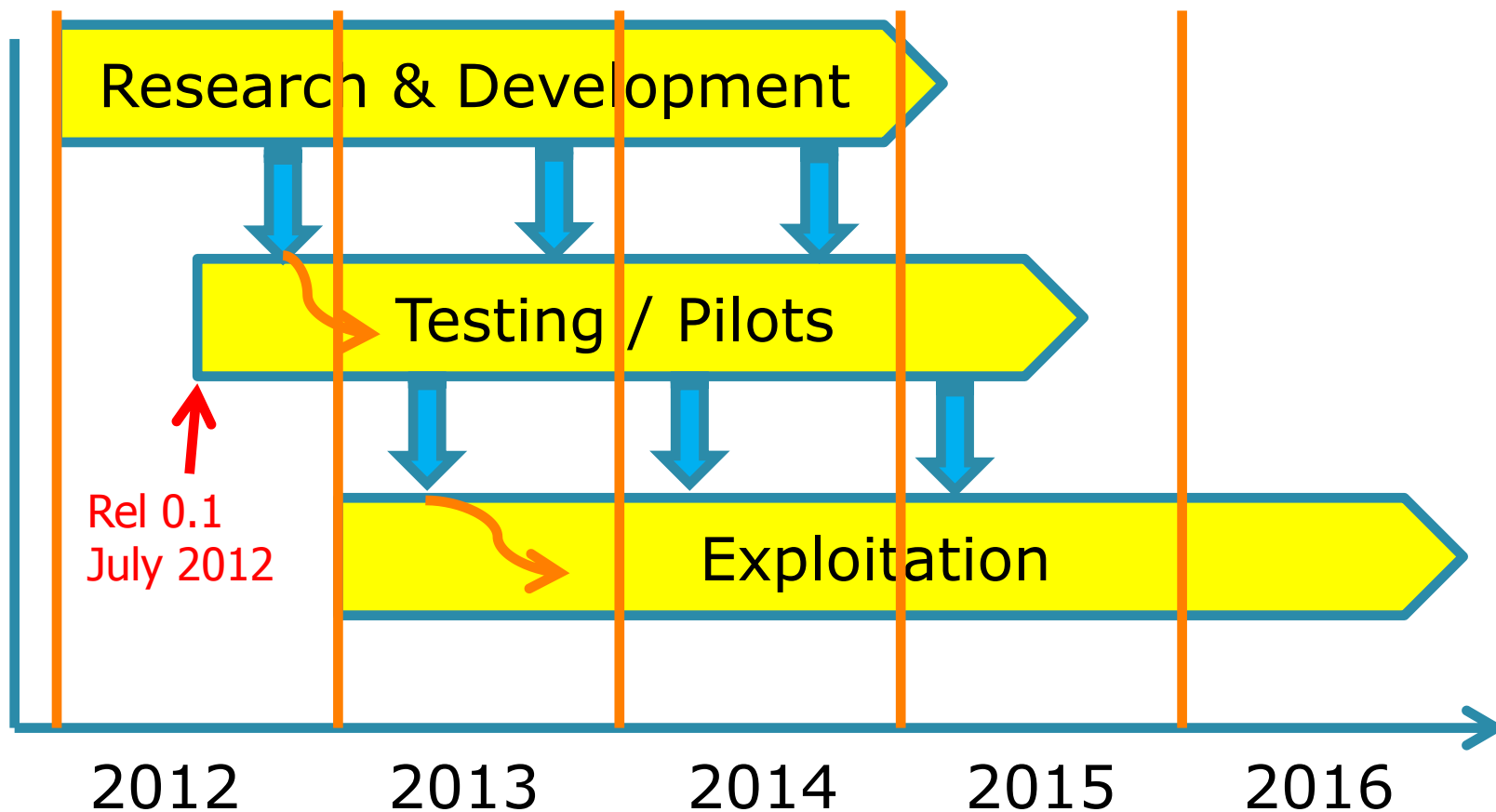


- **Iterative** approach
- **Short** controlling cycles (monthly or 2 weeks, tbc)
- **Timeboxed**



- **Output** planning based on **user stories**
- Priority of work based on „**value added**“ (business value, risk mitigation, knowledge gained, ...)
- Valuable work has a **higher priority** than less valuable work

Continuous release of results



THANK YOU
FOR YOUR ATTENTION