

Business from technology

European perspectives on Smart Cities and Communities – the European Innovation Partnership Model and Methodology

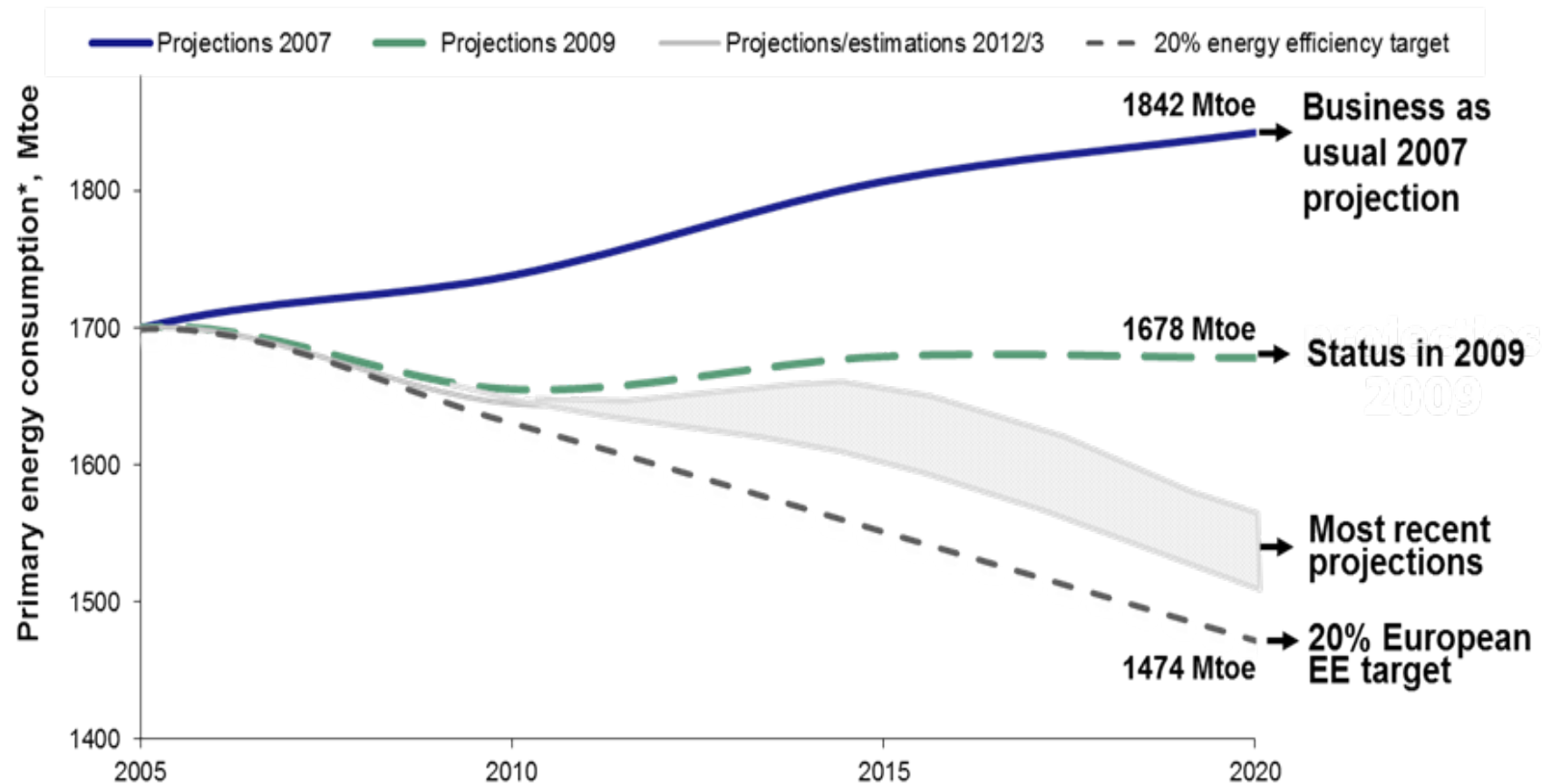
“Get smarter together in the Baltic Sea Region – taking
innovation and smart specialisation across borders”

6-7 November 2013 Sankt Gertrud Konferens, Malmö

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In order to achieve 20/20/20 goals and beyond, EU needs to shift to sustainable production and use of energy, to sustainable mobility, and sustainable ICT infrastructures and services



Cities transformation

Given urbanisation trends, on-going transformations towards increasingly knowledge-intensive economies as well as their growing share of resource consumption and emissions, cities are becoming even more of a focal point for our economies and societies at large. To meet public policy objectives under these circumstances, cities need to change but in times of tight budgets this change needs to be achieved in a smart way: cities need to transform themselves into 'smart cities'.



EIP, European Innovation Partnership

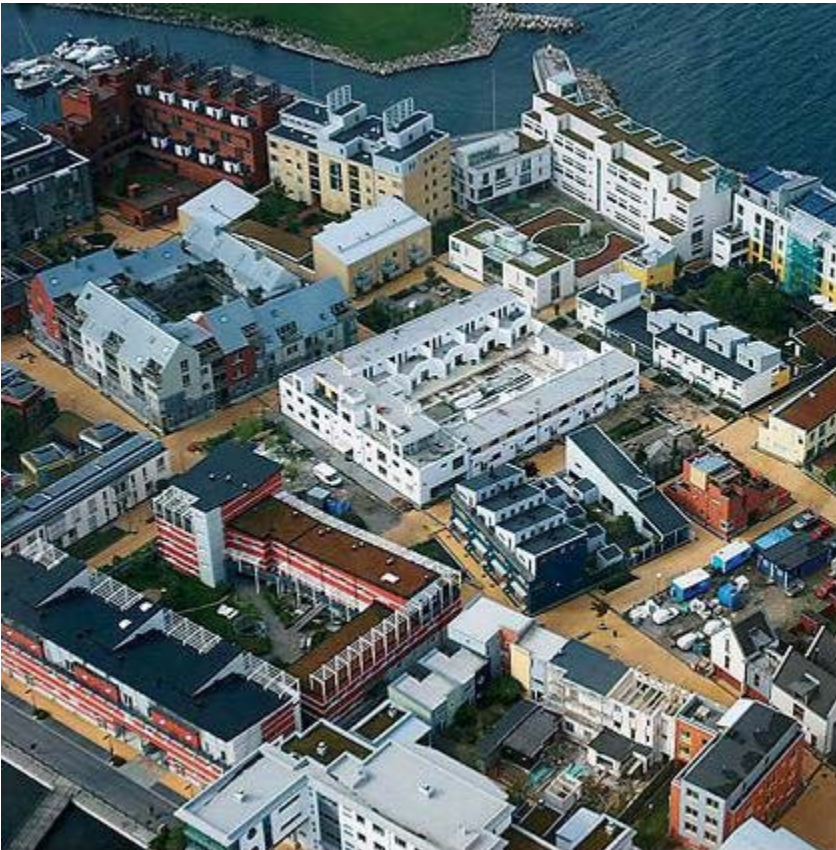
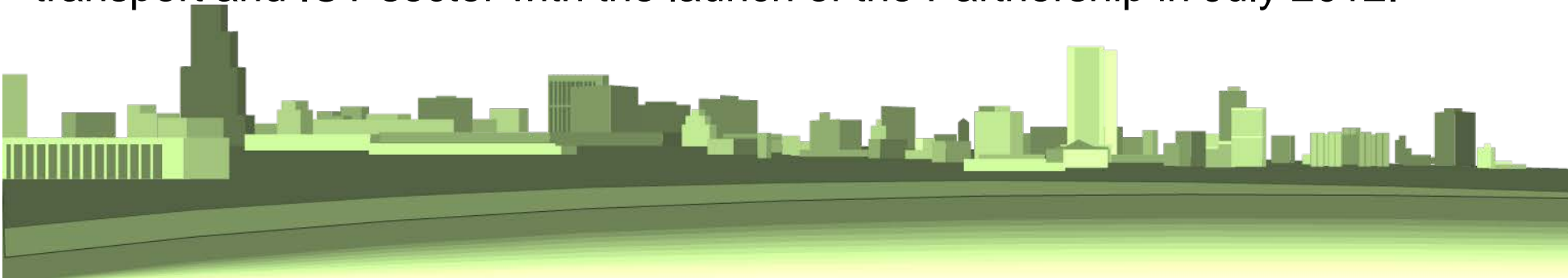


Photo: YM

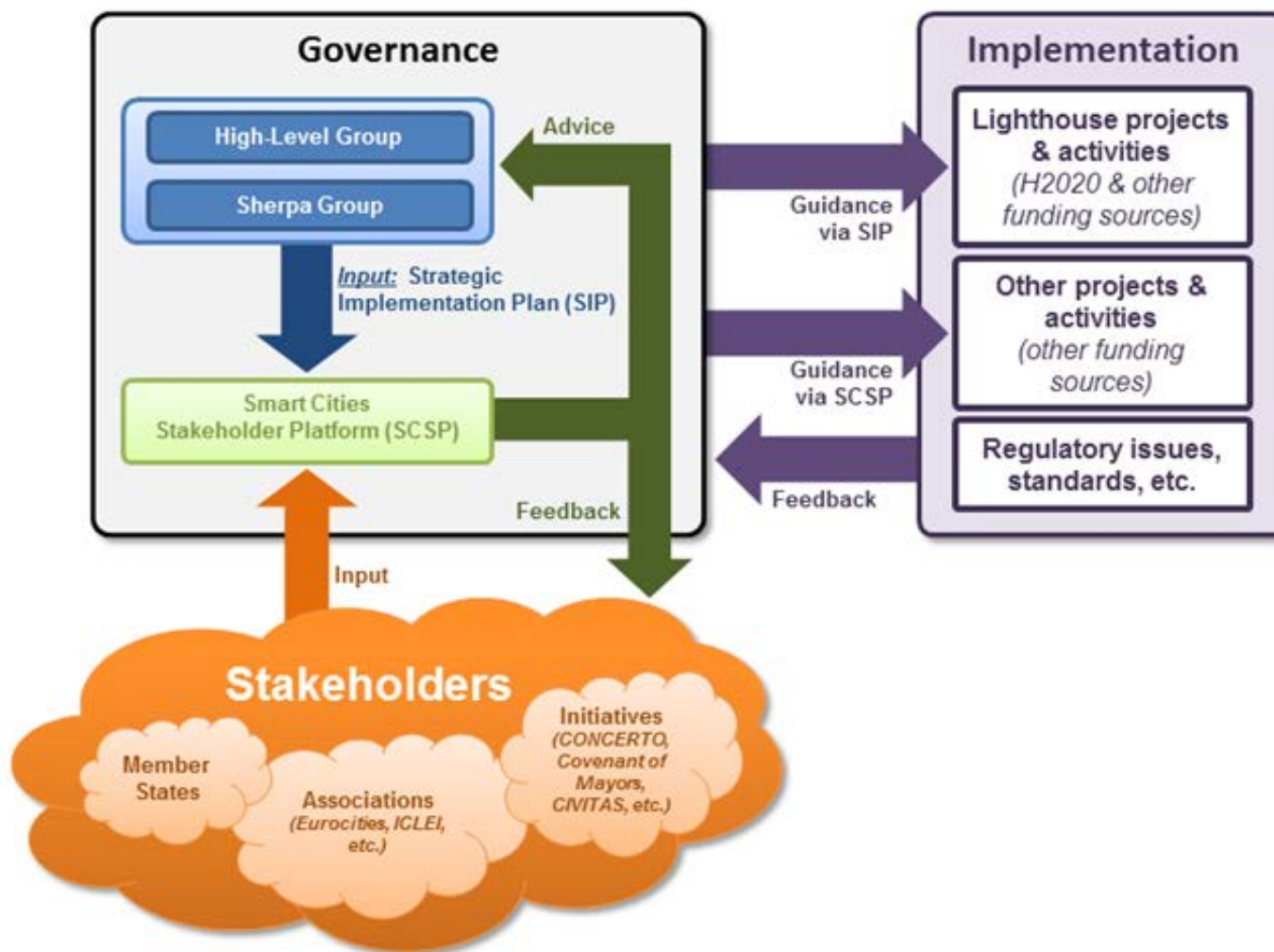
- The European Innovation Partnership for Smart Cities and Communities combines Information and Communication Technologies (**ICT**), **energy** management and **transport** management to come up with innovative solutions to the major environmental, societal and health challenges facing European cities today.
- With the aim of coming up with **scalable and transferable solutions** to contribute to the **EU's 20/20/20 climate action goals**, it looks to reduce high energy consumption, greenhouse-gas emissions, bad air quality and congestion of roads.

EIP, European Innovation Partnership

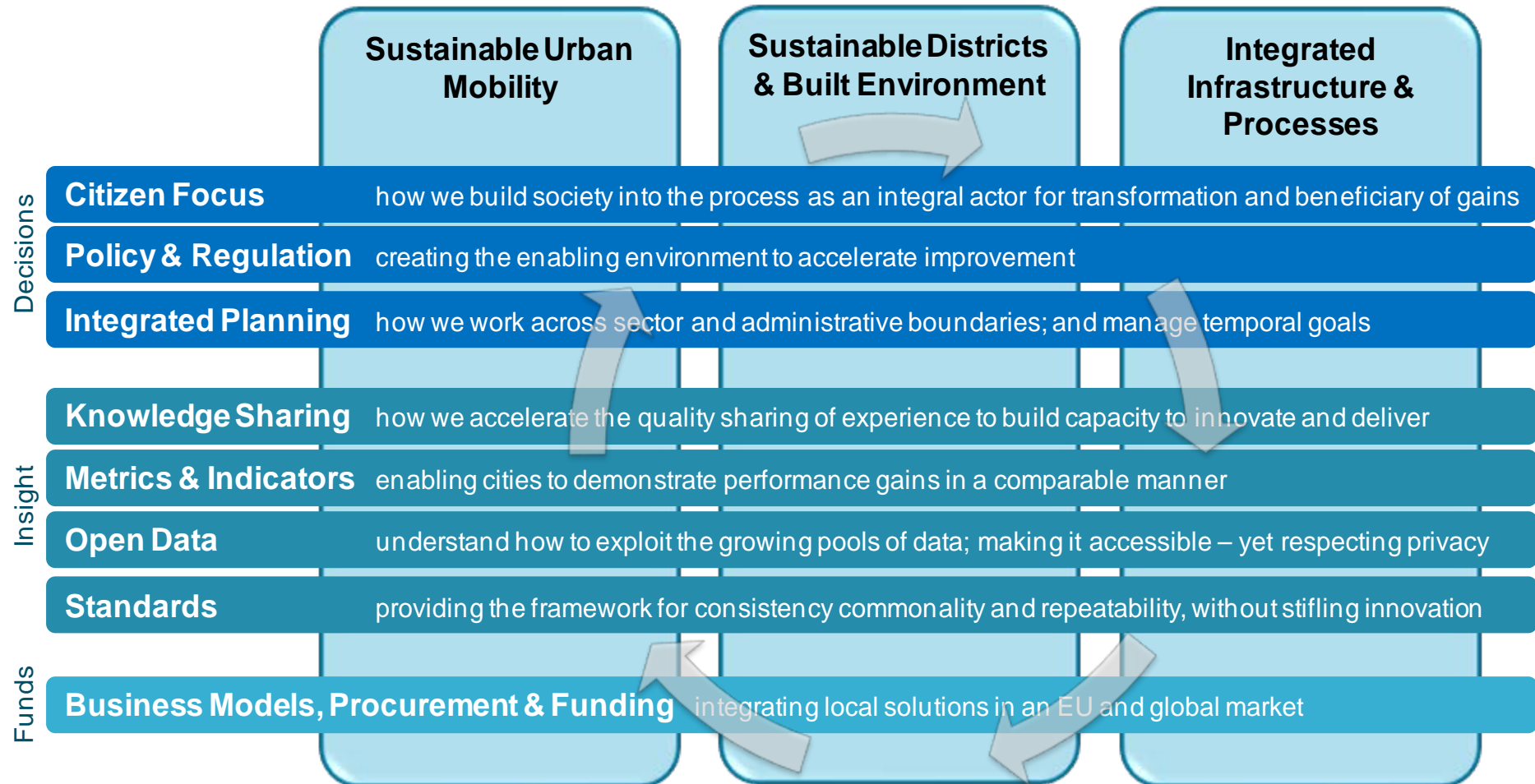
- The Partnership aims to overcome bottlenecks impeding the changeover to smart cities, to co-fund demonstration projects and to help coordinate existing city initiatives and projects, by pooling its resources together.
- It ultimately looks to establish strategic partnerships between industry and European cities to develop the urban systems and infrastructures of tomorrow.
- The Partnership follows the Smart Cities and Communities Initiative which was launched in 2011. This initiative initially only covered energy and had a budget of €81 Million, which grew to €365 Million and extended to include the transport and ICT sector with the launch of the Partnership in July 2012.



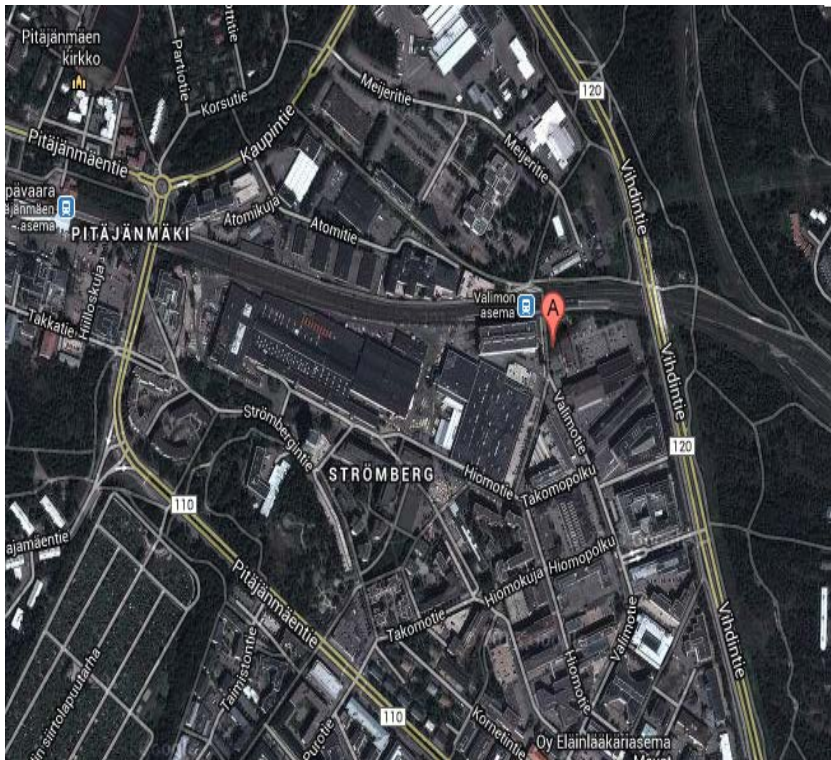
EIP structure



EIP Strategic Implementation Plan

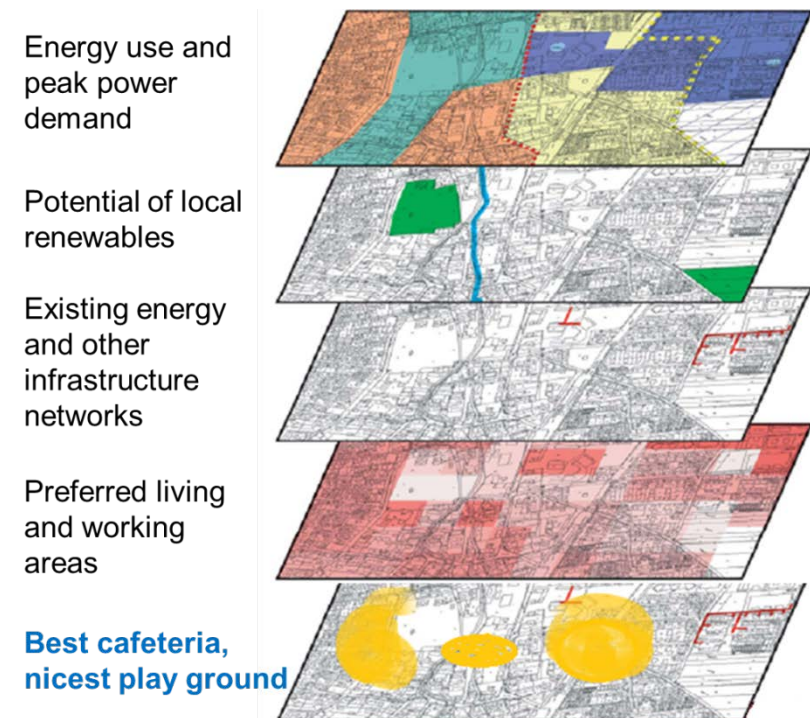


Strategic Implementation Plan, SIP



- Creating a number of “Lighthouse Initiatives” that bring together groups of cities and their collaborators to deliver common solutions (creating scale and confidence for decision makers and investors; supporting implementation in other EU cities; showcasing for European Industry).
- Apply new business and financial models, public-private partnerships, and other innovations to deliver rapid evidence-based improvements across the three vertical areas (transport/mobility, districts/built environment, integrated infrastructures)

Strategic Implementation Plan, SIP



- Develop tools for scalable integrated design, simulation and multi-criteria optimisation to enable multi-stakeholder analyses of different spatial and sectorial perspectives (i.e. performance and life-cycle assessments, sustainability assessment, and visualisation of impacts).
- Develop infrastructure platforms and common architectures for smart city information.
- Implement collaborative integrated smart city planning (city planning forums) and operation, that maximises city-wide data to deliver more agile processes; employing modern multi-criteria simulation and visualisation tools.

Strategic Implementation Plan, SIP



- Create ‘innovation zones’ that free cities from the constraints of policy and regulation in selected domains and for limited duration. Scale up the lessons learned.
- Drive culture change by assuming an “open data by default” principle in cities.
- Create a common framework to develop citizen insight and share rapidly amongst EU cities.
- 100 short staff exchanges in 2014 between cities, industries and relevant NGOs to crowd-source the best ideas. To be repeated annually.

Strategic Implementation Plan, SIP

- Create a smart cities standards coordination group with a common technical committee between CEN-CENELEC-ETSI that will develop a common landscape and programme for smart city standards, and have more influence globally.
- Agree a common indicator framework for smart cities to help cities self-evaluate, and more reliably compare with other cities.



Photo: Pekka Lahti



Photo: YM



Photo: Pekka Huovila



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