



European
Commission

Smart Cities & Communities

11 July 2012



Energy

Smart Cities EIP : Energy, ICT, Transport

1. Integrated approach

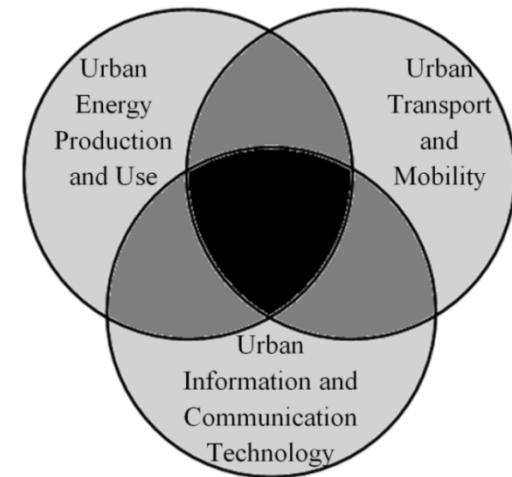
- Energy, Transport and ICT

2. Energy efficiency

- ICT both as enabler and consumer

3. Focus on industry involvement

- Focus on demonstration projects
- Aiming at market solutions
- Business case



Implementation

Supply side:

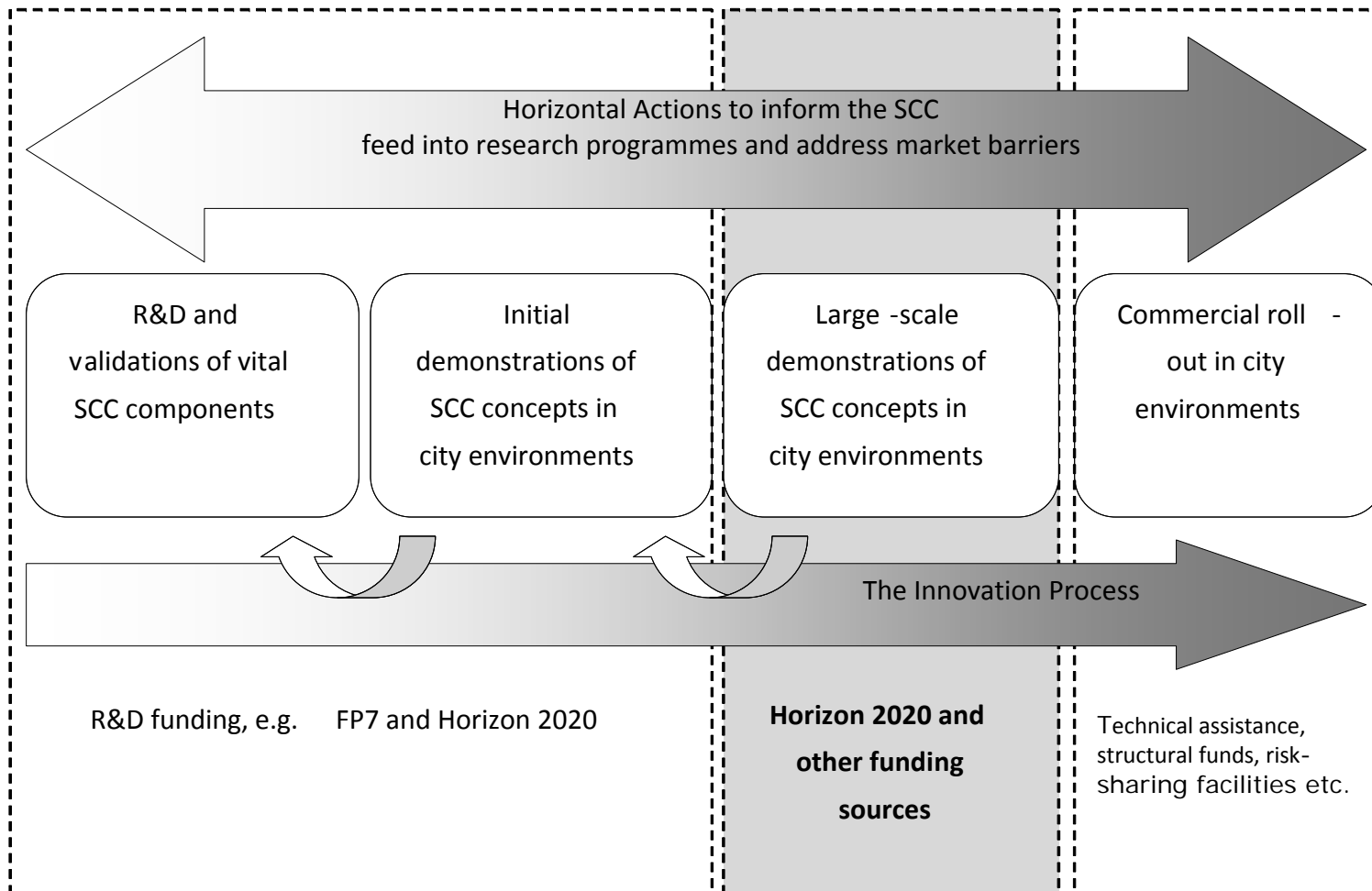
- Large-scale demo projects ('lighthouse projects')

Demand side:

- Business models
- Public procurement
- Regulatory measures (e.g. standards)



Innovation process and financing





European
Commission

Governance

High Level Group

- *advise the Commission*

Stakeholder Platform

- *develop strategic implementation plan*
- *exchange of knowledge*
- *create partnerships*
- *Europe-wide outreach*



Parameters

Financing 2012

- Energy: 90 € million
- ICT: 95 € million
- Transport : 24 € million

Indicators (e.g.)

- Energy performance
- Urban transport management
- Shared use of infrastructures
- Environmental performance



topic	Short title	type	Budget Million €	Projects
7.1.1	Distribution network-RES integration	research	24	no indication
7.3.1	Evs to grid	research		1
7.3.2	EV-grid conformance testing	research		1
8.1.1	High Performance Energy districts	Demo	90	3-5
-	Smart Cities stakeholder platform	tender	1	1
	Total Energy part		115	

Projects

➤ Consortia

- Innovation-driven industries from 3 Member States
- Average one to two cities per project

➤ Objective - innovative integrated energy systems

➤ Energy topic –all three areas should be covered

- Retrofit of districts towards near zero energy houses
- Distribution grid
- Heating/Cooling networks





Areas I

➤ Retrofit of districts

- Coherent district, clearly identifiable, geographic zone
- Easy to measure in/out of primary energy and CO2 emissions
- Easy to measure success (before/after)
- All buildings eligible, but ...preference to residential buildings



Areas II

➤ Distribution Grid

- Medium/low voltage interface + low voltage/house interface
- Smart Grids with ICT, smart meters, local RES (maximise self-consumption), storage
- EV demo is possible (in addition)



Areas III

➤ Smart Heating/Cooling systems

- Innovative use of existing/upgrading of networks
- ICT
- smart use of all available (waste) heat sources
- Integration with industrial parks
- Etc... Optimised according to local conditions and needs



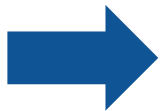
Other elements

- *About 3 to 5 projects*
- *Average one to two cities per project*
- *About 3 to 10 cities (for € 90 million)*
- *About 9 to 30 million per city*
(EC co-funding; % of innovation))
- *Max: € 30 million per city*
- *Max: € 10 million for scale of unit costs*

Next steps

10 July 2012

- Joint Communication for energy, transport and ICT
- FP7 call for proposals (three sectors)



Ensuring the link between technology projects and market roll-out through **regional policy**

Thank you!

