Creation of eco-friendly and age-friendly cities in IT based networked societies: European Initiatives on Smart Cities

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European Commission

DG CONNECT

Smart Cities and Sustainability

- # Context

  - ## Current level of urbanisation in EU:
    Today 75%, to rise to 80% by 2020

  - ## Smart cities can be seen as systems with people, flows of energy, materials, services and financing that catalyse sustainable economic development and high quality of life through the wise use of technology and innovative transparent, urban planning that is closely related to the economic and social activity of communities.

- # Europe's 20-20-20 goals

  - ## Minus 20% GHG by 2020 (baseline 1990)
  - ## 20% renewable energy use

- # Objective

  - Accelerate development and deployment of integrated energy, transport and ICT solutions at local level to serve EU climate/energy targets

- # Ultimate target

  - Transform a number of European cities to Smart Cities

- # How

  - Provide funding for selected large-scale demonstration projects

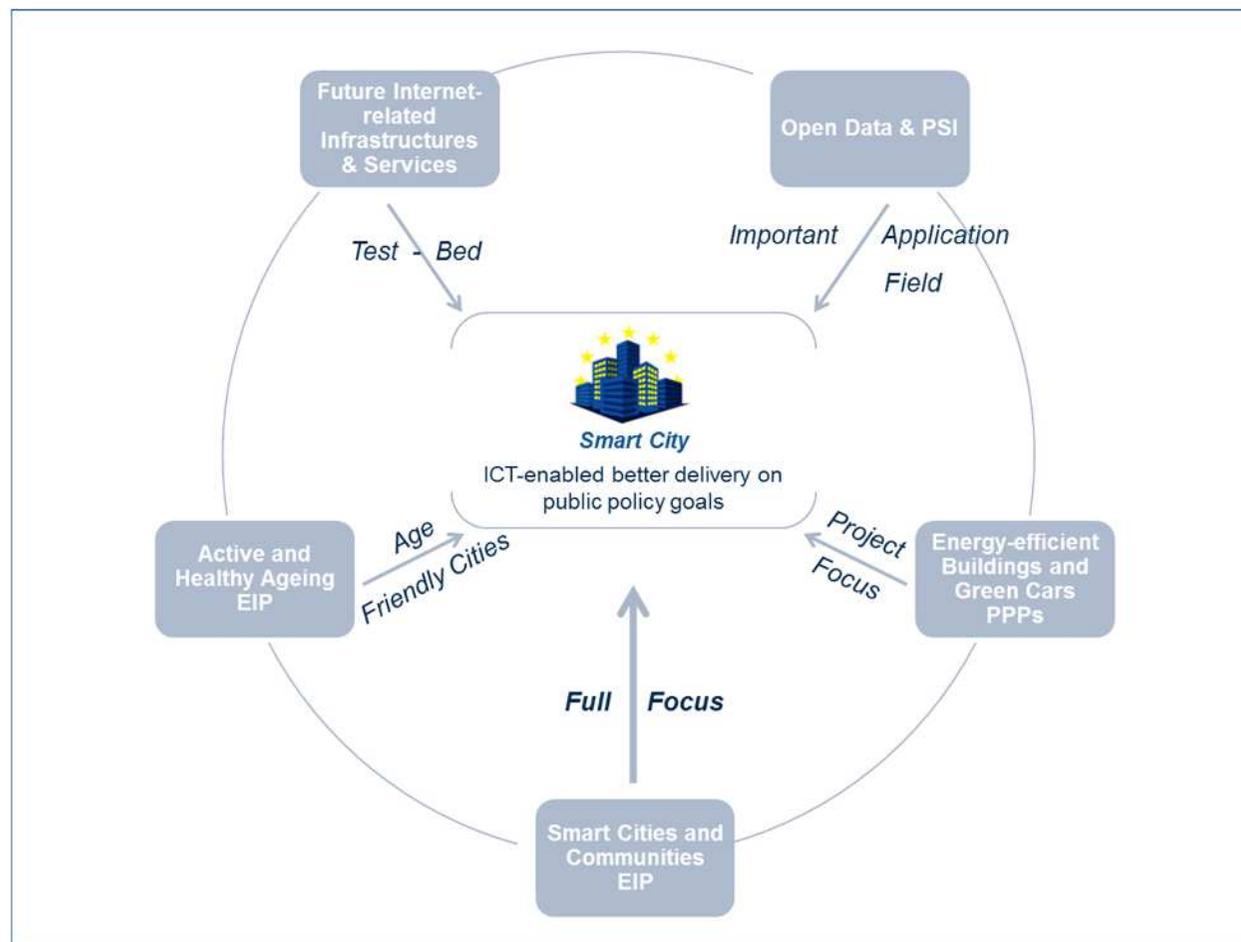 - Prepare for scale-up through focused horizontal activities
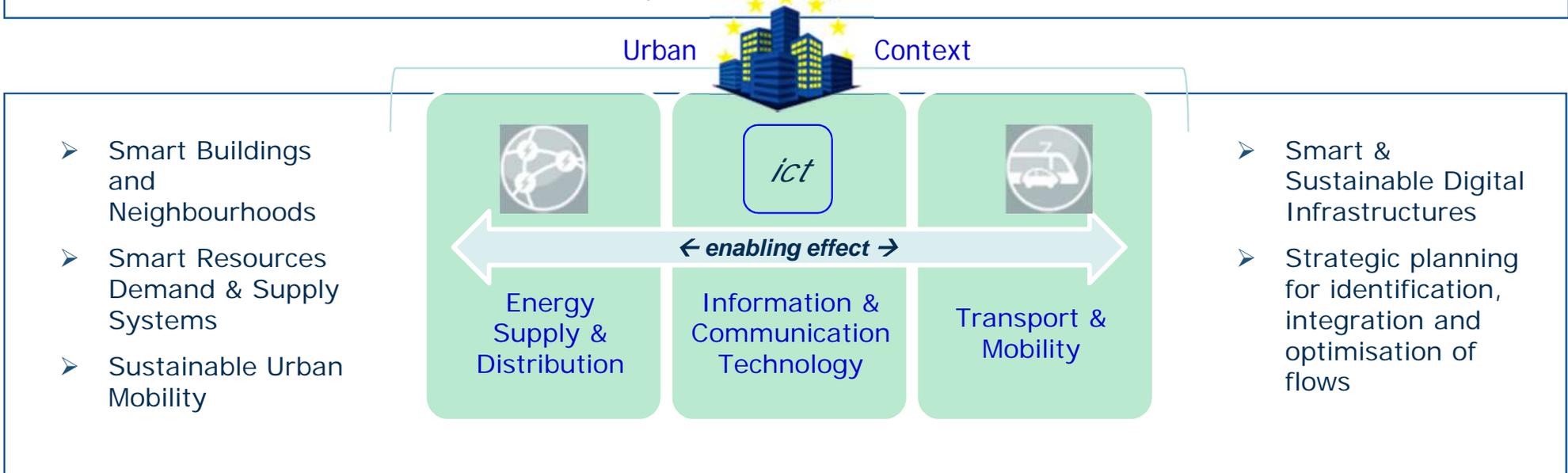
- # Novelties

  - No "silos" between the energy, transport and ICT sectors

  - European Commission's initiatives under "one single roof"

  - Focus on innovation through integration of technologies/ business models rather than research into new technologies

  - Coordinated call for proposals

  - Joint leadership by three Commissioners responsible for energy, transport and ICT

  - Climate goals supplemented interoperability of service infrastructures, open data, harmonized metrics, etc.

A number of policy and research & innovation actions contribute to our Smart Cities approach in a complementary fashion.

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Our energy and climate challenges will be won or lost in cities. This EIP is about accelerating full deployment of solutions that help us answering these challenges.

Political Goal
Significant contribution to 20/20/20

Headline Target
Significant number of Smart City solutions, highly transferable, that enable the city to outperform on 20/20/20

Operational Focus
Transferable solutions at the intersection of ICT, energy and transport sectors for urban context

Urban   Context

- ➤ Smart Buildings and Neighbourhoods
- ➤ Smart Resources Demand & Supply Systems
- ➤ Sustainable Urban Mobility

ict

← *enabling effect* →

Energy Supply & Distribution

Information & Communication Technology

Transport & Mobility

- ➤ Smart & Sustainable Digital Infrastructures
- ➤ Strategic planning for identification, integration and optimisation of flows

Operational Goal - Achieving industrial scale development and deployment

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Progress in the EIP's priority areas depends on operating the right common levers.

Priority Areas …

➢ *Urban Sustainable Mobility*

Multi-modal transport planning, alternative energy carriers, smart logistics, ...

➢ *Districts and Built Environment*

Integration of renewables, positive energy districts, deep retrofitting, ...

➢ *Integrated Infrastructures*

Cross-sectoral infrastructures integration, joint planning and business models, common standards, ...

… and Common Challenges and Levers across them

Insights & Governance	Funding & Finance	Information & Decisions
▪ *Citizen focus* ▪ *Integrated planning & management* ▪ *Knowledge Sharing*	▪ *Procurement* ▪ *Financing & Business Models*	▪ *Open Data* ▪ *Standards* ▪ *Baselines, Performance Indicators and Metrics*

Thank you for your attention!

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More info on http://ec.europa.eu/eip/smartcities