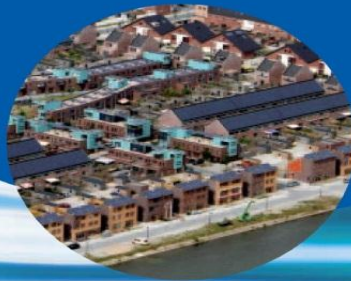




European
Commission



Smart Cities & Communities

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Outline

- Concept: What makes a city smart and green?
- Addressing the challenge:
 - ✓ Connecting and enabling European cities
 - ✓ Moving beyond the silos
- European Innovation Partnership on Smart Cities and Communities
- H2020
- Cooperation with China

A city becomes 'smart' and 'green' through strategic deployment of ICT infrastructure and services to achieve sustainability policy objectives.

Energy and Resource Efficiency

ICT deployed to increase energy efficiency in buildings and beyond, including urban planning; ICT-optimised water and waste management;

...

Carbon Neutrality

ICT deployed to decrease carbon footprint of private and public real estate, to feed distributed renewables into the grid, to optimise traffic management; ...

Cost-Effectiveness

ICT deployed to realise savings through reduced peak energy demand, to turn consumers into prosumers, to optimise logistics; ...

?

ICT deployed to enable achieving further public policy objectives

Connecting and enabling European cities:

The Green Digital Charter means political commitment and specific actions towards ICT-enabled sustainability targets and greening ICT itself.

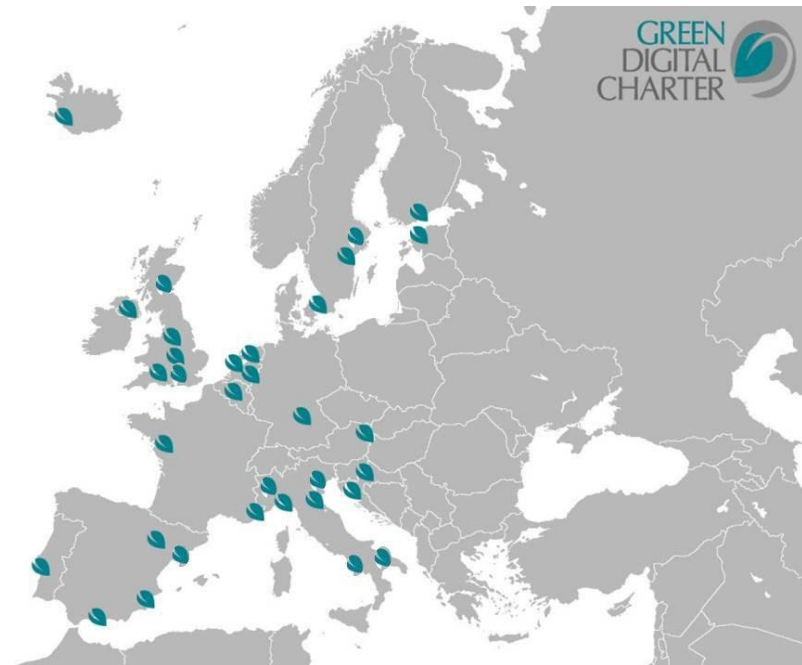
Overall Objectives

Since November 2009, to encourage cities to:

- (i) reduce the carbon footprint of their ICT and
- (ii) roll-out ICT solutions leading to more energy and resource efficiency, carbon neutrality and further public policy goals

Signatory Mayors' Commitments

- Closely cooperate on ICT deployment towards public policy goals
- Deploy 5 large scale ICT projects within 5 years
- Decrease ICT's direct carbon footprint by 30% within 10 years




Connecting and enabling European cities:

'NiCE – Networking intelligent Cities for Energy Efficiency' is the EC's support action to promote and advance the Green Digital Charter.




Key Objectives

- *Objectives: establishing an ICT footprint Reporting Tool drawing on existing international standards to measure, compare and report ICT's direct carbon footprint at city level*
- *Supporting the Green Digital Charter in moving from political commitment to action:*



Define a set of monitoring and reporting tools



Deliver practical support to the signatory cities



Knowledge exchange beyond GDC



Cooperation with China

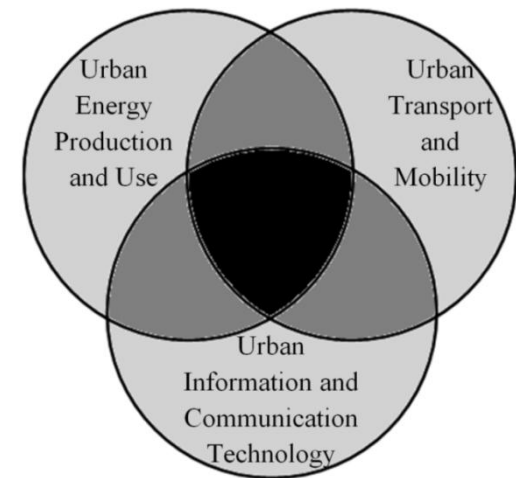
EIP on Smart Cities - Moving beyond the silo:

The European Commission will focus its efforts on smart cities across portfolios to optimise outputs and ensure public policy coherence.



Smart Cities European Innovation Partnership : Energy, ICT, Transport

- 1. 20/20/20 goals for 2020*
- 2. Integrated approach
Energy, Transport and ICT*
- 3. Focus on the intersection*
- 4. ICT both as enabler and as consumer*
- 5. Key role for industries and cities*



Implementation

Supply side:

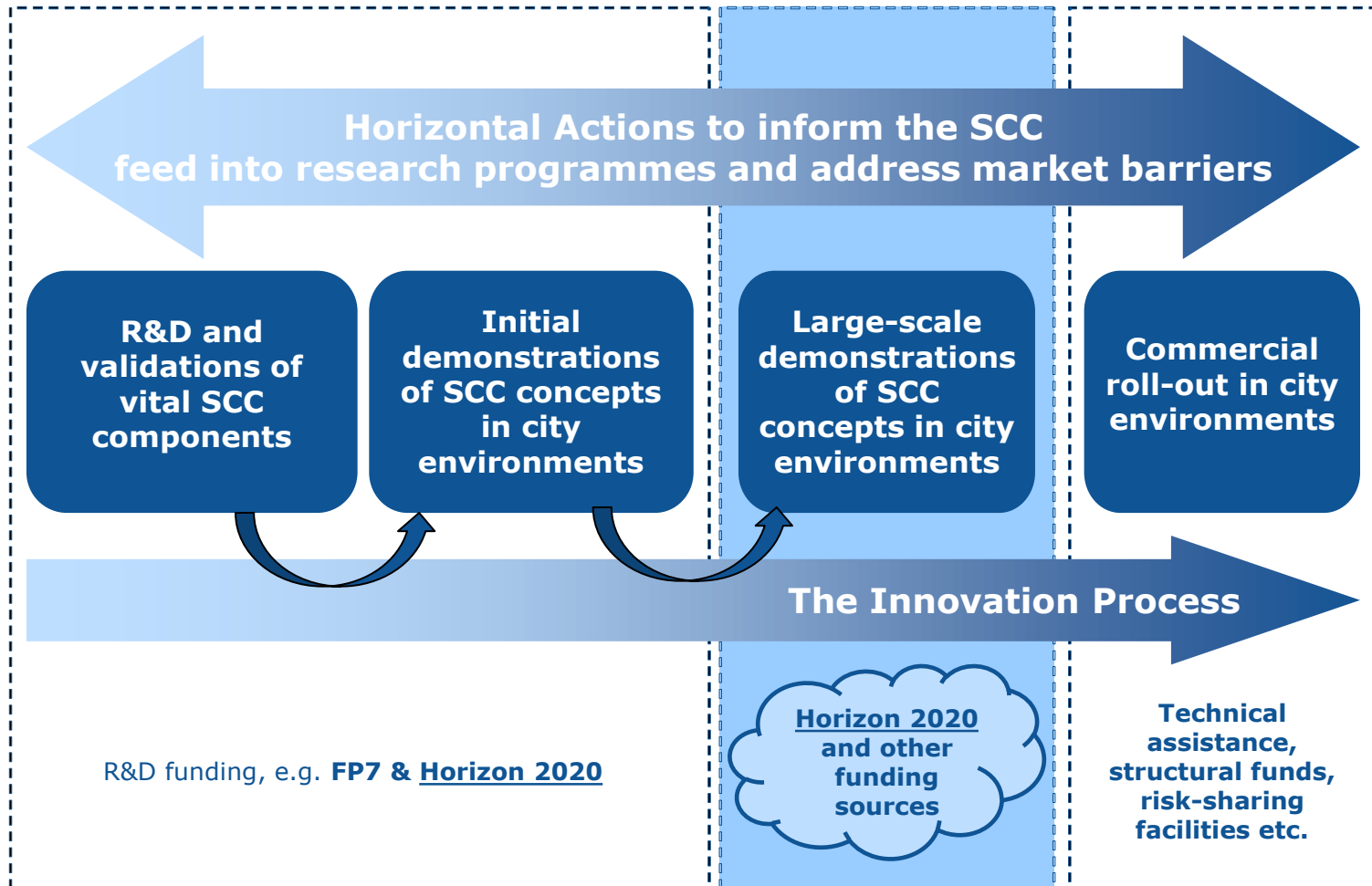
- *Large-scale demo projects ('lighthouse projects')*

Demand side:

- *Business models*
- *Public procurement*
- *Horizontal actions (e.g. regulatory measures, standards, common measurement frameworks)*



Innovation process and financing



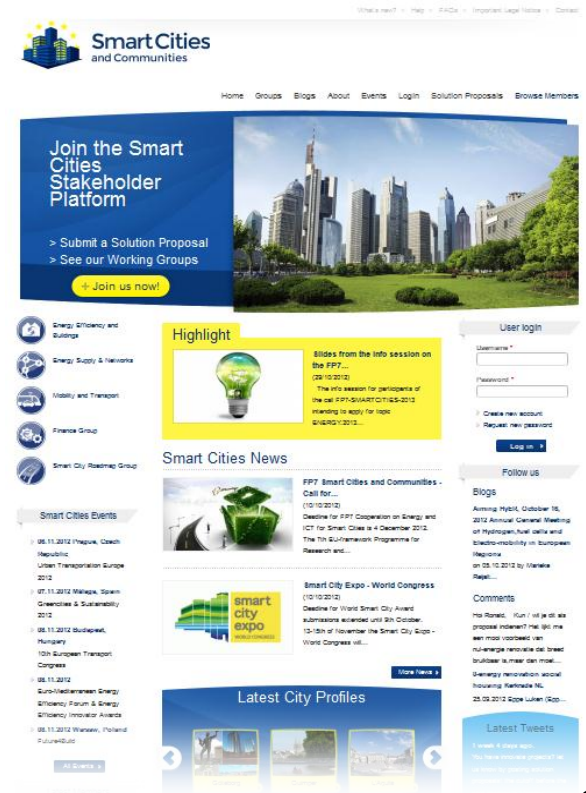
Governance

High Level Group

- guide Strategic Implementation Plan (SIP)
- steer implementation SIP
- take commitments, lead by example
- Supported by a "Sherpas" Group

Stakeholder Platform

- provide input to SIP
- exchange of knowledge
- create partnerships



The screenshot shows the homepage of the Smart Cities and Communities website. The header includes the logo and navigation links: Home, Groups, Blogs, About, Events, Login, Solution Proposals, Browse Members. The main banner features a cityscape and the text "Join the Smart Cities Stakeholder Platform" with buttons for "Submit a Solution Proposal", "See our Working Groups", and "Join us now!". Below the banner is a "Highlight" section with a lightbulb icon and text about the FP7 Smart Cities and Communities Call for... (10/10/2012). A "Smart Cities News" section follows, listing various events and calls for proposals. On the right side, there is a "User login" section with fields for Username and Password, and a "Follow us" section with a "Blogs" link. The bottom of the page features a "Latest City Profiles" section with a carousel of city images and a "Latest Tweets" section.

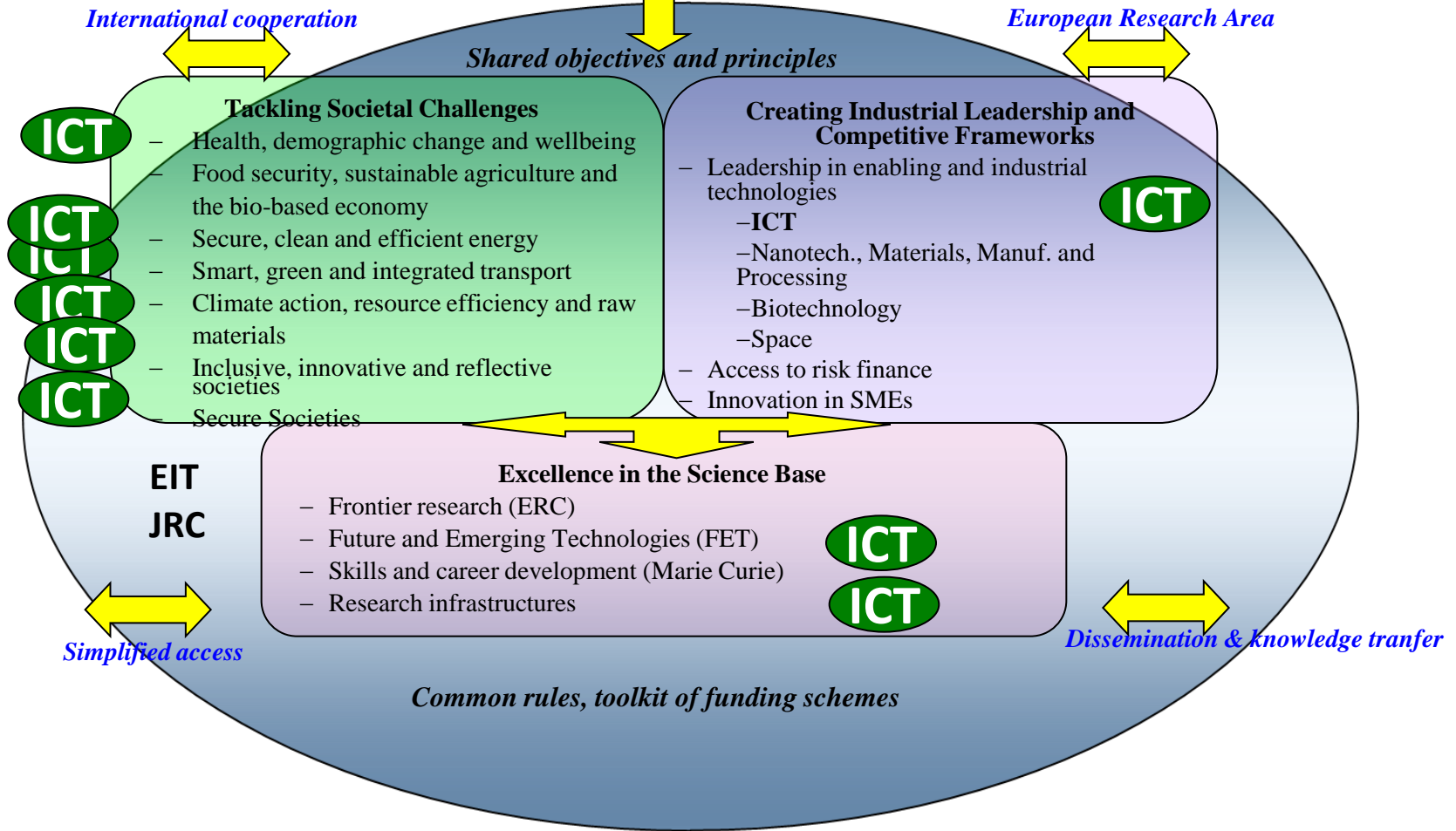
Horizon 2020

- A European Research & Innovation funding programme (2014-20) with a considerable size (77 billion Euro)
- Part of proposals for next EU budget, complementing Structural Funds, education, etc.
- A core part of Europe 2020, Innovation Union & European Research Area:
 - **Responding to the economic crisis** to invest in future jobs and growth
 - **Addressing peoples' concerns** about their livelihoods, safety and environment
 - **Strengthening the EU's global position** in research, innovation and technology



European Commission

Europe 2020 priorities



Horizon 2020 – Funding Models

- **1 reimbursement rate** by action:

Up to 100% for RTD actions

Up to 70% for innovation and programme co-fund actions (non-profit entities up to 100%)

- **1 method for calculation of indirect costs:**

Flat rate of 25% of total direct costs, excluding subcontracting, costs of third parties and financial support to third parties

- **Certificate on financial statements:**

When cumulated amount \geq 325,000EUR (actual costs + average personnel costs)

To be submitted with the request for payment of balance

Horizon 2020 – Next Steps

1. September-October: Consultations with national experts
2. October-November: Finalisations of WP2014-15
3. November 6-8: ICT 2013 in Vilnius
4. December 10: WP adoption
5. December 11: Publication of first calls
6. Spring 2014: closing of first call

Cooperation with China

1. EU-China ICT Policy Dialogue

2013

- China-EU Green Smart Cities Cooperation launched May this year
- Expert Group established
- 15 pilot cities in each side selected
- Link with the EU-China Urbanisation Partnership
- Event in Beijing 20-24 November this year

2014

- Exchange of visits between China and EU pilot cities
- Preparation of Reports on China-EU Smart Cities Dialogue

Cooperation with China

- 2.- Reinforce co-operation with NICE:
The Green Digital Charter in fast growing countries;
contribution to the toolset.
- 3.- Involvement in the EIP through the Stakeholders Platform
- 4.- Continue technical and research oriented cooperation via H2020.

Thank you!

