

The European Innovation Partnership on Smart Cities and Communities

How to build Smart Energy Regions TechnologieRegion Karlsruhe & European Commission 4-5 July 2016

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Why Smart Cities and Communities?





 Exporting European knowledge in a strong growth market estimated globally at €1.3 trillion in 2020



SCC-EIP
Smart Cities and Communities
European Innovation Partnership

4600 partners, 370 commitments, 31 countries.

It is about scale, acceleration, impact, common solutions, integrated approaches and collaboration.

Focus on Energy, Transport and ICT





Action clusters





Citizen focus

- Start from Existing Habits and Identify the Needs: Co-**Design & Co-Creation as Tools**
- Citizen-Centric Approach to Data
- Citizen & Stakeholders Communication Platforms

Policy and regulations/ integrated planning

- From Planning to Implementation
- **Tools for Decision Making and Benchmarking**
- **Six Nations Forum**
- **Governance for Cultural Heritage (coming** soon)

Sustainable districts and built environment

- **Small giants**
- Positive energy blocks

Action clusters



Initiatives (2/2)

Business models, finance & procurement

- Innovative business model use cases

Integrated infrastructures and processes (including Open Data)

- Humble lampposts
- Urban platforms

Sustainable urban mobility

- Electromobility
- New mobility services





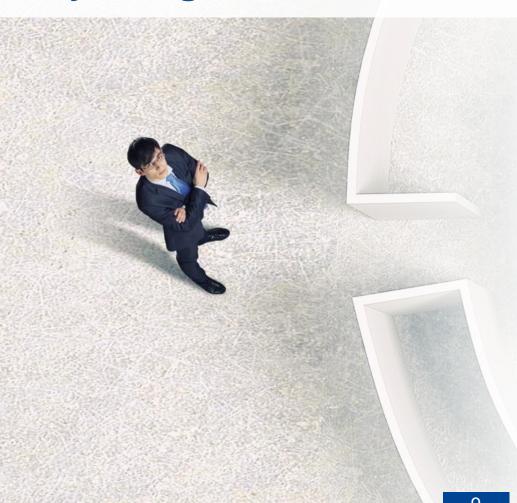
Agenda for 2016



- 100 cities will collaborate in different groupings to align and subsequently bundle demand for tested solutions.
- 100 key industry partners will cooperate with these cities in developing innovative solutions, the respective business models and innovative financing solutions to derisk city investments and benefit SME growth.
- General Assembly held on 24 May 2016 in Eindhoven (NL)



Why being involved?



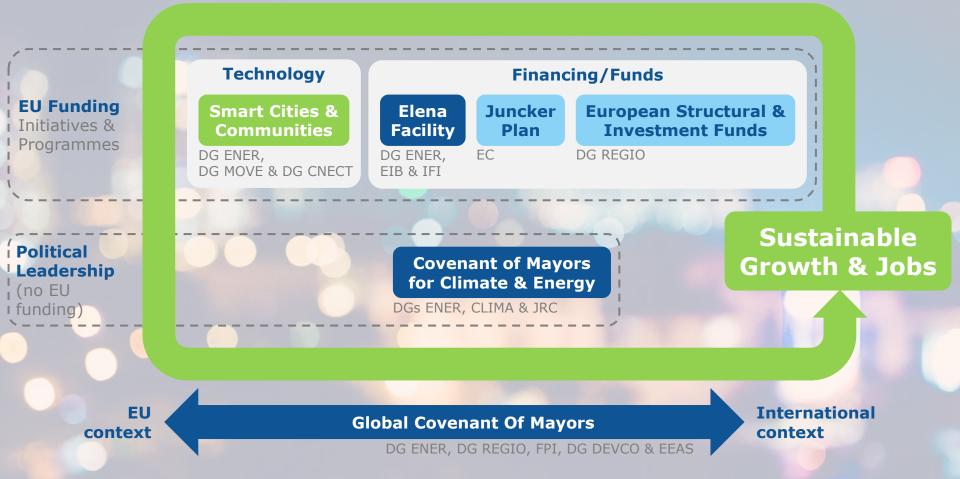
- Practical knowledge sharing
- Capacity building
- **Partnering for EU or other** projects
- **Bundling of demand** enables easier access to all funding sources
- Gaining visibility for your city, project, association, company, etc.



How to join?

- Create a public profile at https://eu-smartcities.eu/user/register
- Join an existing commitment.
- Join an Action Cluster to provide your specific expertise on a certain issue.







Evolution of projects





Evolution of calls

2012

Integrated Planning

Demonstration

Buildings OR
Heating & Cooling
OR Smart Grids

2013

Demonstration Only

Buildings AND Heating & Cooling AND Smart Grids 2014 ...

Lighthouse Projects

Energy AND
Transport AND
ICT

- Growing focus on integration and replication
- Demand for business models to foster market uptake
- Essential part of the wider Smart Cities policy context



Horizon 2020 Lighthouse Projects

- Low energy districts
- Integrated infrastructures
- Sustainable urban mobility
- € 231.5 million foreseen for all topics, out of which € 131.5 million for lighthouse projects in 2016 and 2017

Conditions

- Consortia: industry & cities
- 2-3 cities involving 2-3 follower cities
- Part of ambitious urban plan
- Funding from other parts secured
- Next call: opening 4/11/2016

Other topics:

- nature based solutions (next call opening 8/11/2016)
- new governance, business and financing models
- sustainable urbanisation
- More info:

 http://ec.europa.eu/rese
 arch/participants/portal/
 desktop/en/opportunitie
 s/h2020/calls/h2020

 scc-2016-2017.html



Project example 1: SmartenCity (2015 call)

- EU contribution: € 28,1 million
- Impacts
 - 165.181 m² of nearly Zero Energy Buildings (nZEB) (2494 houses)
 - 6,6 MW of newly installed Renewable Energy Sources
 - About € 56,5 million invested → leverage factor 2
 - 960 new jobs created
- Success factors
 - Good balance between Energy, Transport & ICT
 - Very good deployment plan
 - Positive evaluation of the ICT concept
 - High ambition → 100% renewable energy in Sonderborg
- 35 partners / lighthouse cities: Vitoria, Tartu, Sonderborg / follower cities: Asenovgrad, Lecce



Project example 2: Replicate (2015 call)

- EU contribution: € 25,4 million
- Impacts
 - 58.750 m² of nZEB (696 houses)
 - Up to 90% energy savings in buildings
 - o About € 158 million invested → leverage factor 6,5
- Success factors
 - Very good balance and integration between the 3 domains
 - Very good data handling (→ collection and processing)
 - Lots of innovative and ambitious actions
 - Direct follow-up of an inegrated planning project → realisation of that plan within Replicate
- 36 partners / lighthouse cities: San Sebastian, Florence, Bristol / follower cities: Essen, Lausanne, Nilufer



Thank you

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http://eu-smartcities.eu