



HORIZON 2020

Smart Cities & Communities SCC1 – 2016

Jens BARTHOLMES DG ENER C2

Why Smart Cities and Communities?

- Improving quality of live, competitiveness and sustainability
- Exporting European knowledge in a strong growth market estimated globally at €1.3 trillion in 2020



SCC1 call 2015 – huge interest

- **42 proposals** (37 eligible) – twice as much as 2014
- **Over 1000 entities** represented in the proposal consortia (average 29/proposal)
- **96 proposed Lighthouse cities** in 25 countries (20 Member States and 5 Associated States)
- **113 proposed follower cities** in 33 countries, (24 Member States, 4 Associated States and 5 Third countries)

SCC1 call 2016

- **Smart and Sustainable Cities**
- **sustainable, cost-effective and replicable** district-scale solutions at the intersection of energy, transport enabled by ICT
- **intelligent, user-driven and demand-oriented** city infrastructure and services
- **'Lighthouse project'** approach continued

Scope

- Develop and test **integrated innovative solutions** at large scale
- Become the most advanced cities in Europe and act as **exemplars** for their region by **paving the way for replication** of these solutions

Integration

Balanced combination

Replication

- smart **buildings**,
- smart **grids**
- **energy storage**,
- **electric vehicles** and smart charging
- latest generation **ICT platforms** based on open specifications

Capitalizing on synergies between components to increase efficiency and reduce costs.

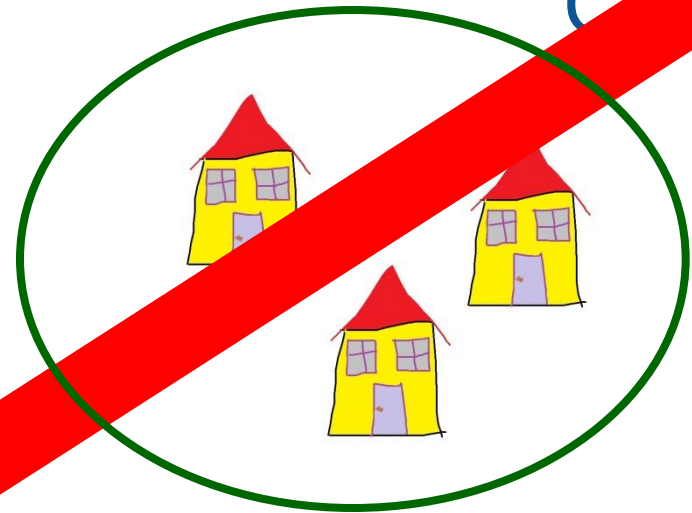
Each project must:

- Be realised in **3 new lighthouse** cities that are situated in different EU Member states or associated countries.
- Involve **at least 3 follower cities** from at least 3 different EU Member states or associated countries (that are different also from the countries of the lighthouse cities of the project).

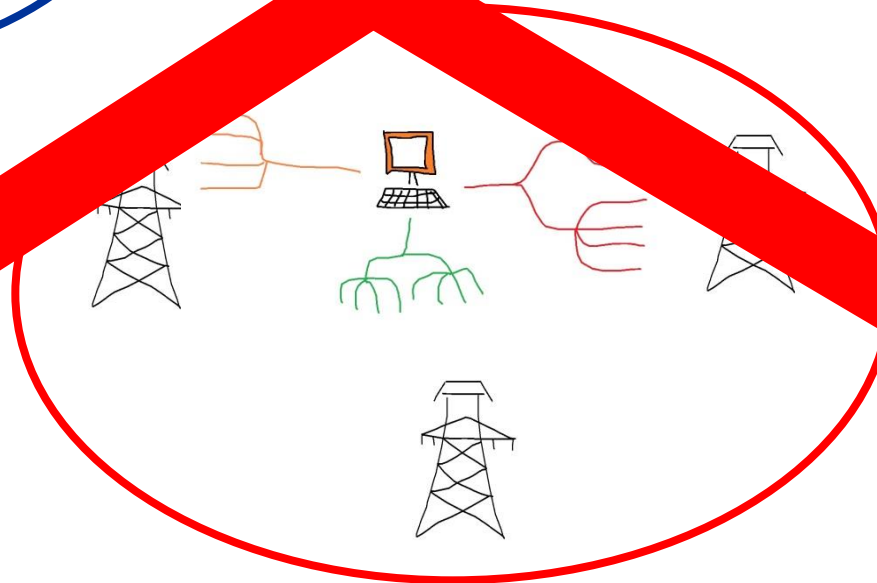
City 1



City 2



City 3

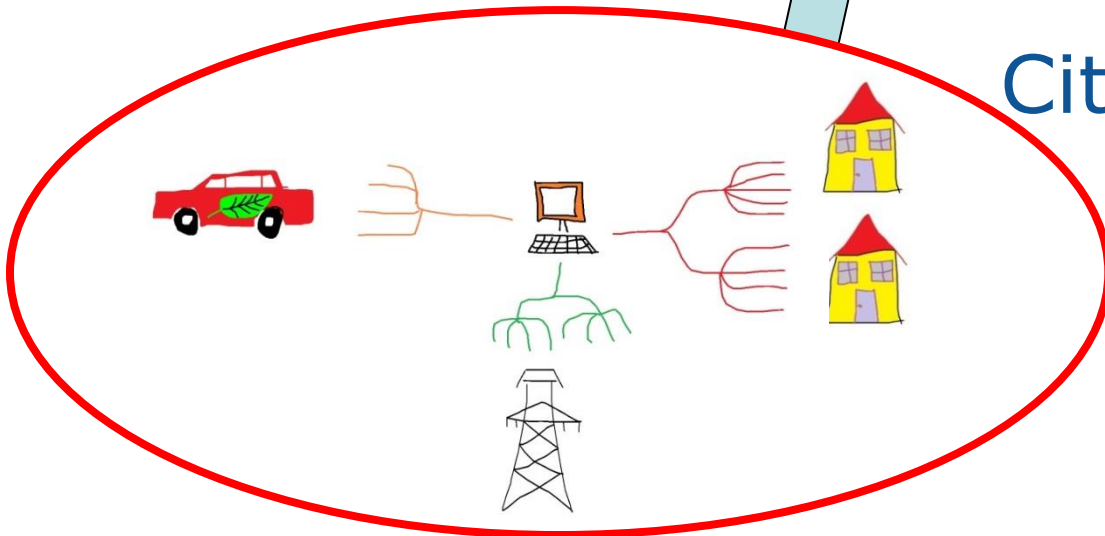
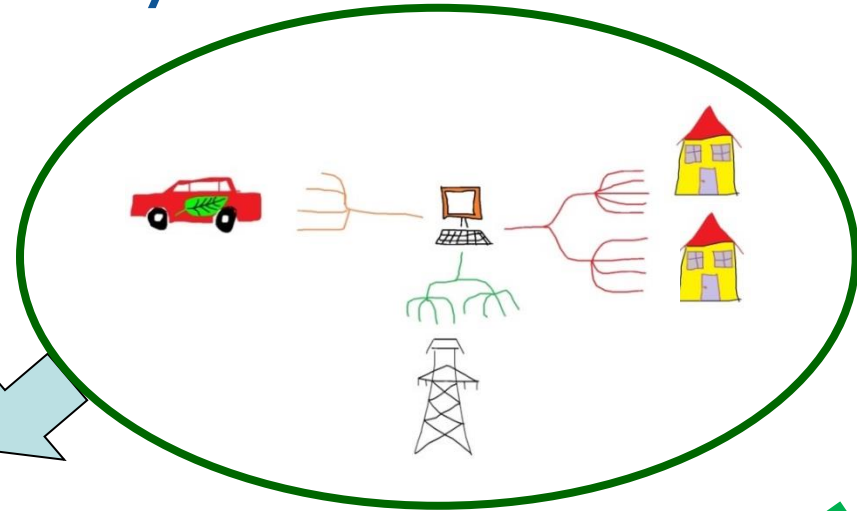
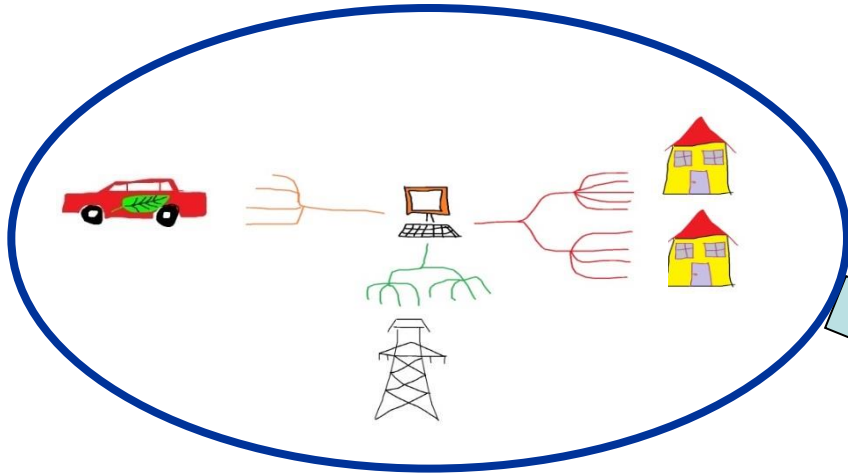




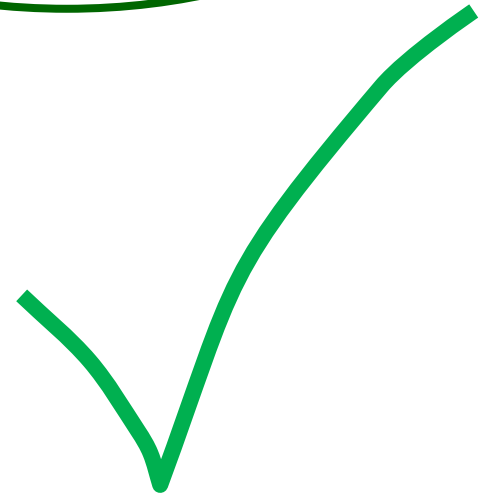
European
Commission

City 1

City 2



City 3



Include area maps in proposals



Indicate boundaries of affected areas

Long term political commitment

- Sustainable Energy Actions Plans approved by the Covenant of Mayors initiative are obligatory
- Links with the broader Sustainable and Integrated Urban Development Strategies in the framework of the European Structural and Investment Funds

Important details

- A city can be funded as a lighthouse city only once under Horizon2020
- Follower cities are defined as cities that have not yet acquired the full technical competence to become a lighthouse city
- Performance monitoring for at least 2 years
- Convincing and realistic work, replication and investment plans
- Incorporate all performance data into SCIS

Non-eligible costs

- Costs of construction (including scale of unit costs),
- Costs of retrofitting (including scale of unit costs),
- Cost of purchasing electric vehicles,
- Costs of acquisition of standard ICT tools, conventional RES and their mounting
- Insulation of the building envelope, good windows; heat pumps, and other appliances

Eligible costs (1)

All those innovative aspects that transform the city into a smart city, such as for example:

- Integration of storage with all grids
- Innovative part of building management that is leading to a deep integration with the local energy system
- Smart integration of the electricity grid with RES, with electricity storage and heat storage at the district level

Eligible costs (2)

- Only the innovative parts of RES, suited for smart integration
- Integrated approaches and testing of "business" models for the local production and distribution of electricity together with electric vehicle fleets, to create the conditions for market take up
- Smart electricity, heat or cold storage and its management for maximising self-consumption

Eligible costs (3)

- only ICT platforms based on open specifications
- Economic research and development of new business models that avoid lock-in situations
- Training and education within and between cities



Foreseen contribution from the EU

between EUR 12 to 18 million / selected project

Submission deadline 05. April 2016

Evaluation Criteria

Excellence	Impact Factor 1.5 !	Quality & efficiency of implementation
<p>Clarity and pertinence of the objective</p> <p>Credibility of the approach</p>	<p>Concerning the expected impacts listed in the work programme</p>	<p>Coherence and efficiency of the work plan – allocation of tasks and resources</p> <p>Competence of participants</p> <p>Appropriateness of the management structure and procedures including risk and innovation management</p>

Facilitate the reading of your proposals

- Make information easy to find
- Use summary tables
- Justify budget – detail distribution
- Keep page limits
- Use graphs, pictures





Dedicated Info Day "Smart Cities" 6 November 2015