



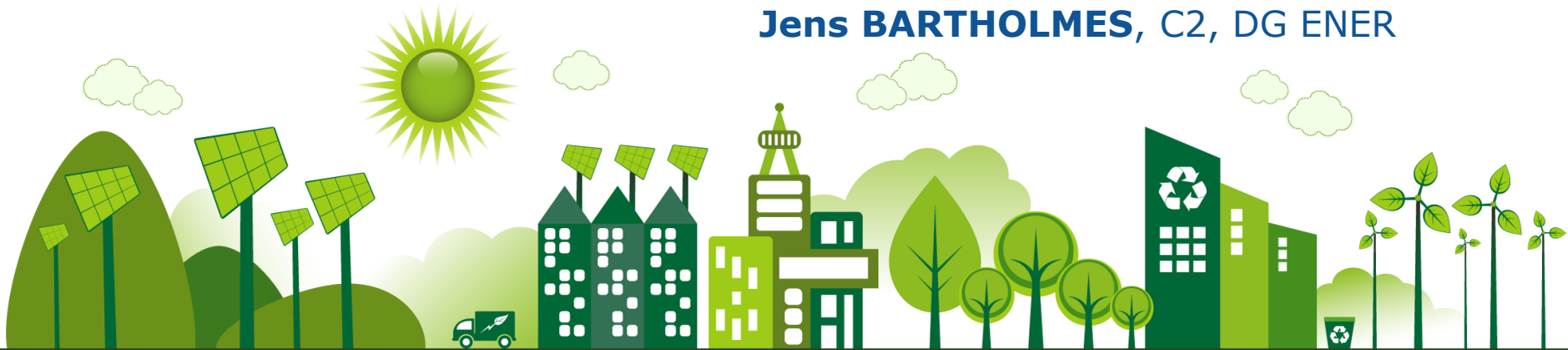
H2020 SCC1 - 2017

Horizon 2020

**Smart Cities & Communities
Info Day**

#H2020SCC1

Jens BARTHOLMES, C2, DG ENER



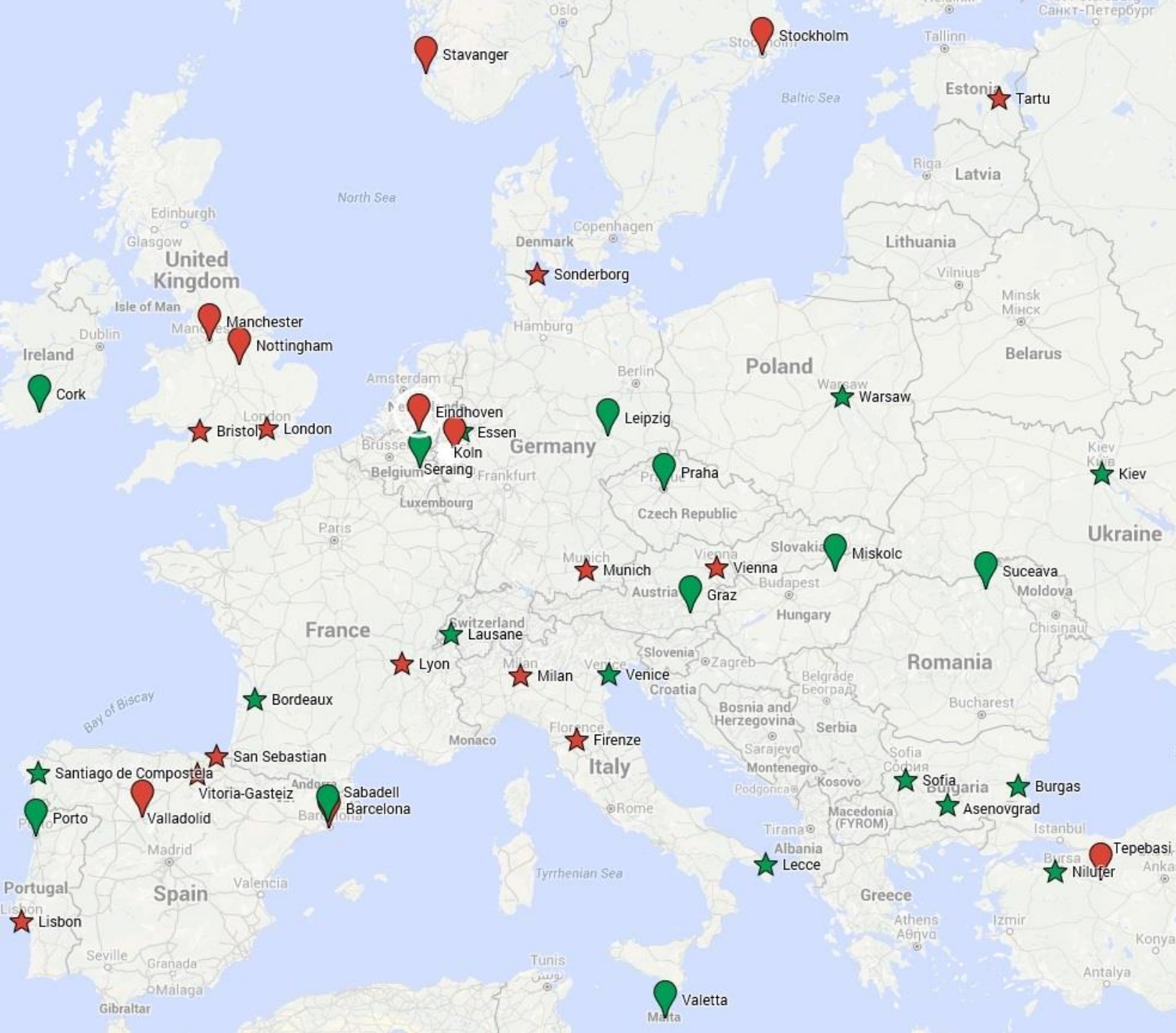
Energy

Smart Cities and Communities (SCC)

- **Smart and Sustainable Cities** – cross-cutting
- **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

H2020 - SCC1 calls

- 2017 will be the **4th year** of lighthouse projects and the network is steadily growing.
- We already have **27 Lighthouse cities** and **30 Follower cities**.
- They do not operate in isolation but are now forming a **lighthouse collaboration** network.



- ★ **2015 Leader**
- ★ **2015 Follower**
- 📌 **2014 Leader**
- 📌 **2014 Follower**

To be updated
end of 2016
once the Grant
Agreements
are signed.



H2020 - SCC1 call 2017

- **'Lighthouse project'** approach continued
- SCC-1-2017 has been **updated** following stakeholder feedback
- **Not identical** with the text of topic SCC-1-2016
- Text passages covered by Frequently Asked Questions (FAQ) were edited for clarity
- Important aspects re-emphasized

Scope

- Develop and test:
 - **integrated innovative solutions** at district scale.
 - **innovative business models** that enable deployment at large scale
- Act as **exemplars** for their region by **helping to plan the replication of solutions**, adapted to different local conditions.

Integration & 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).
- Have **Sustainable Energy Action Plan (SEAP)**, positively evaluated by the Covenant of Mayors **before submitting** a proposal.

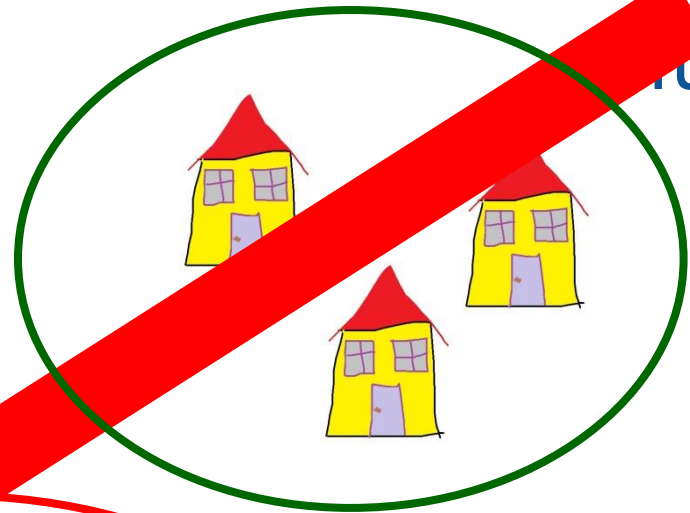


European
Commission

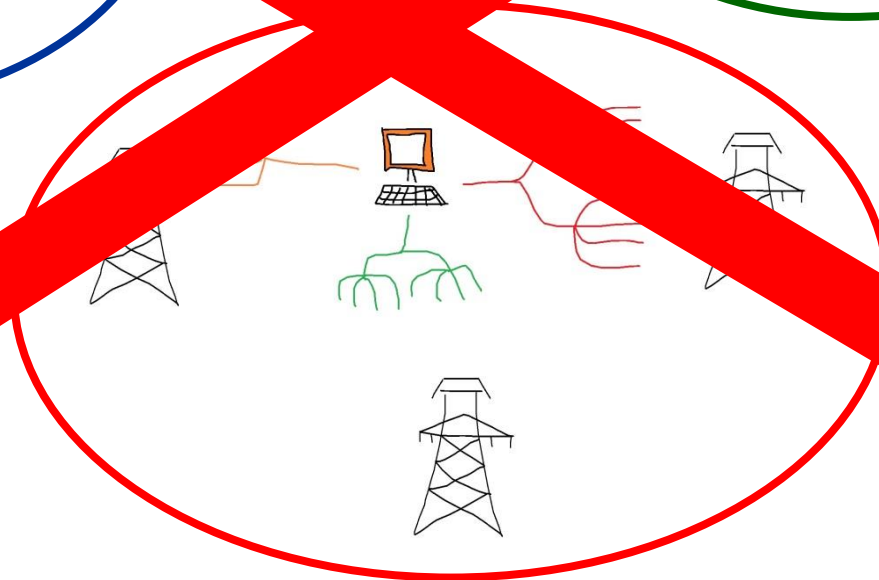
City 1



City 2



City 3

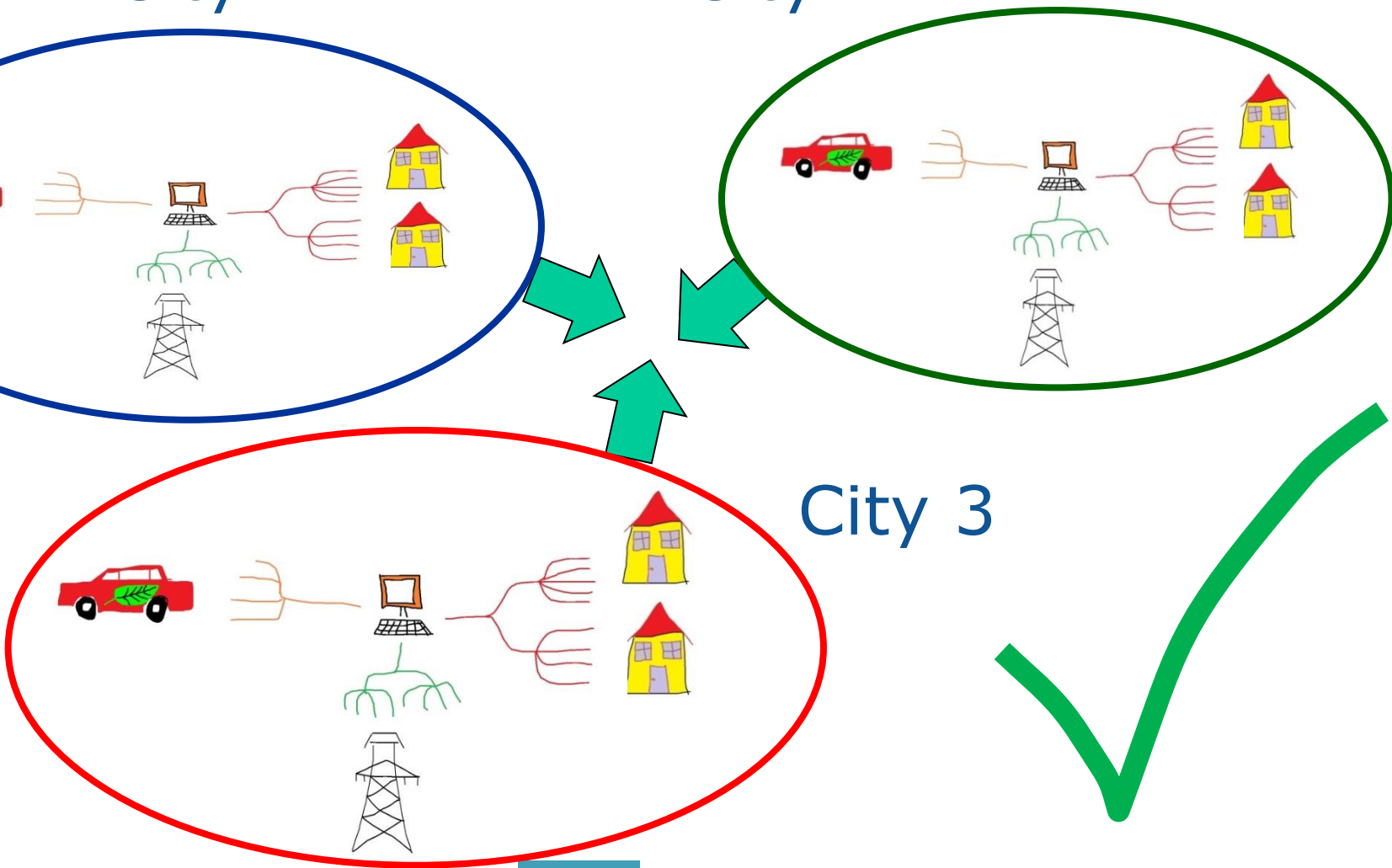




European
Commission

City 1

City 2



Include area maps in proposals



Indicate boundaries of affected areas

Important details

- A city can be funded as a **lighthouse city only once under Horizon2020**
- **Follower cities** are defined as cities that have yet to acquire the full technical competence needed to become a lighthouse city.
- **Performance monitoring** for at least 2 years during the project.
- Convincing and realistic work, **replication and investment plans**

Important details

- Incorporate all **performance data** into Smart Cities and Communities Information System SCIS
- The initial **investment plans** (to be refined during the execution of the project) shall show that after successful demonstration **private capital** can take over further investments at low technical and financial risks
- foresee about 2 % to 3% of the requested funds for **inter-project cooperation**

Non-eligible costs

- Costs of construction (including scale of unit costs)
- Costs of retrofitting (including scale of unit costs)
- Cost of purchasing/leasing 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
- Economic research for and development of highly innovative approaches and testing of integrated business models
- Smart storage (electricity, heat or cold) and its management for maximising self-consumption
- Platforms based on open specifications with open application program interfaces (API)

Eligible costs (3)

- Further refinements of the initially submitted replication plans
- Training and education within and between cities



Foreseen contribution from the EU

between EUR **12** to **18** million / selected project

Submission deadline: **14 February 2017**

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>

Expected Impacts

- Put in practice a **bankable solution** for a challenge identified by the city
- Increase the **energy efficiency** on district scale
- Increase significantly the share of renewable energies and their **integration** into the energy system
- Roll-out of **electric vehicles** in cities
- Increase local **air quality**
- Create stronger links and **active cooperation between cities** in a large number of Member States

Facilitate the reading of your proposal

- M
- Ju
- Pr
- U
- U
- U
- K



well



European
Commission

Official call text

<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/scc-1-2016-2017.html>



European
Commission

Questions?

#H2020SCC1



Energy