European Commission

Horizon 2020

Smart Cities & Communities

GrowSmarter

#H2020SCC

Energy

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Energy

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Low energy districts

Smart solutions:

1. *Efficient and smart climate shell refurbishment*

Low energy districts

Smart solutions:

1. *Efficient and smart climate shell refurbishment*
2. *Smart Building logistics and alternative fuelled vehicles*

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Low energy districts

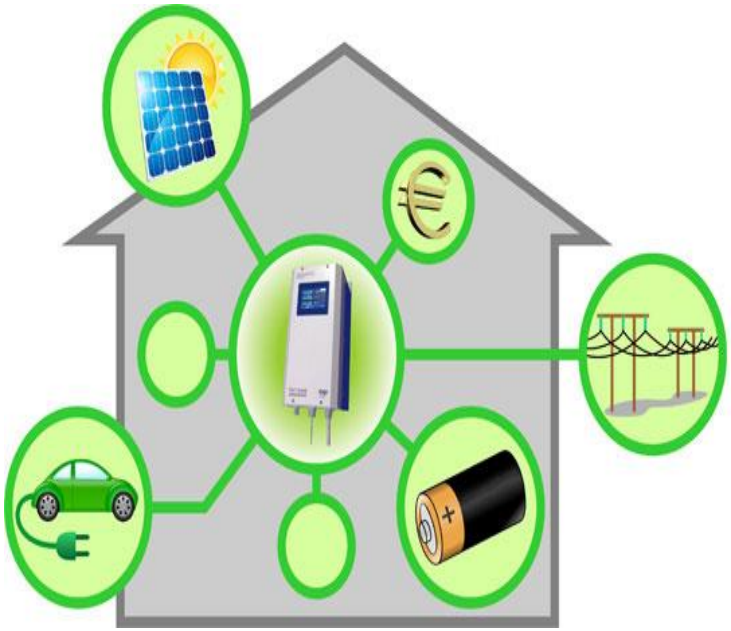
Smart solutions:

1. *Efficient and smart climate shell refurbishment*
2. *Smart Building logistics and alternative fuelled vehicles*
3. *Smart, energy saving tenants through information*

Low energy districts

Smart solutions:

1. *Efficient and smart climate shell refurbishment*
2. *Smart Building logistics and alternative fuelled vehicles*
3. *Smart, energy saving tenants through information*
4. *Smart local production of electricity and integration with power grid*



Integrated infrastructures

Smart solutions :

5. *Smart lighting, lamp & traffic-posts as hubs for communication*

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Integrated infrastructures

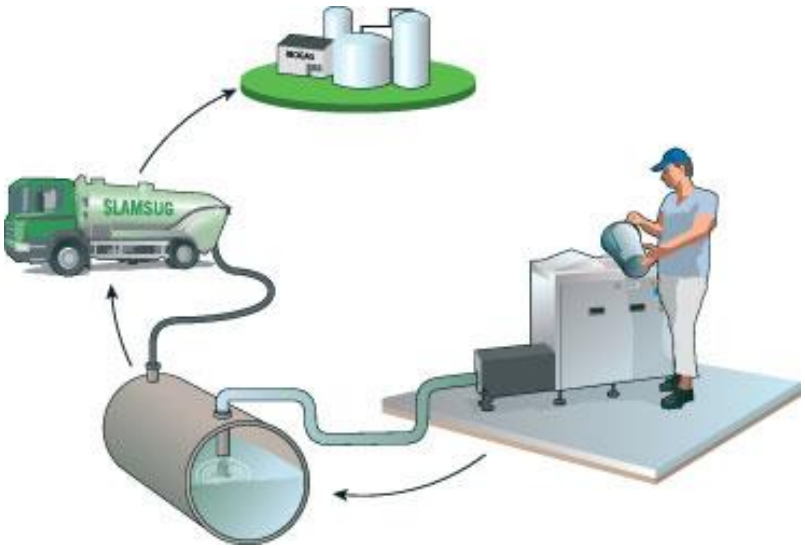
Smart solutions :

5. *Smart lighting, lamp & traffic-posts as hubs for communication*
6. *Waste heat and local heat inte-gration by new business models*

Integrated infrastructures

Smart solutions :

5. *Smart lighting, lamp & traffic-posts as hubs for communication*
6. *Waste heat and local heat inte-gration by new business models*
7. *Smart waste handling turning waste to electricity, heat and biogas for vehicles*



Integrated infrastructures

Smart solutions :

5. *Smart lighting, lamp & traffic-posts as hubs for communication*
6. *Waste heat and local heat inte-gration by new business models*
7. *Smart waste handling turning waste to electricity, heat and biogas for vehicles*
8. *Big data protocol for saving energy and improving the quality of life*

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Sustainable mobility

Smart solutions :

9. Sustainable delivery

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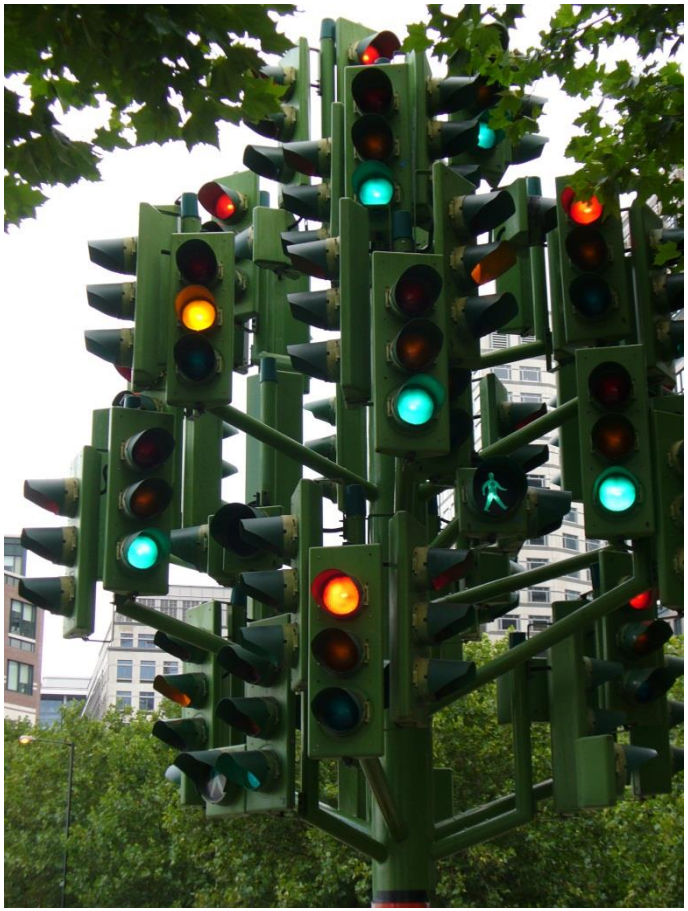
Sustainable mobility

Smart solutions :

9. Sustainable delivery

10. Smart traffic management



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Sustainable mobility

Smart solutions :

9. *Sustainable delivery*
10. *Smart traffic management*
11. *Alternative fuel driven vehicles*

Sustainable mobility

Smart solutions :

9. *Sustainable delivery*
10. *Smart traffic management*
11. *Alternative fuel driven vehicles for decarbonizing and better air quality*
12. *Smart mobility solutions*

Research partners

Do the smart solutions meet the goals?

Energy/climate:

- *Energy*
- *Climate*
- *Decarbonize energy system*
- *Local air quality*

Economy/growth

- *Short pay-back for investments*
- *Trigger large scale economic investments*
- *Create growth in Europe*

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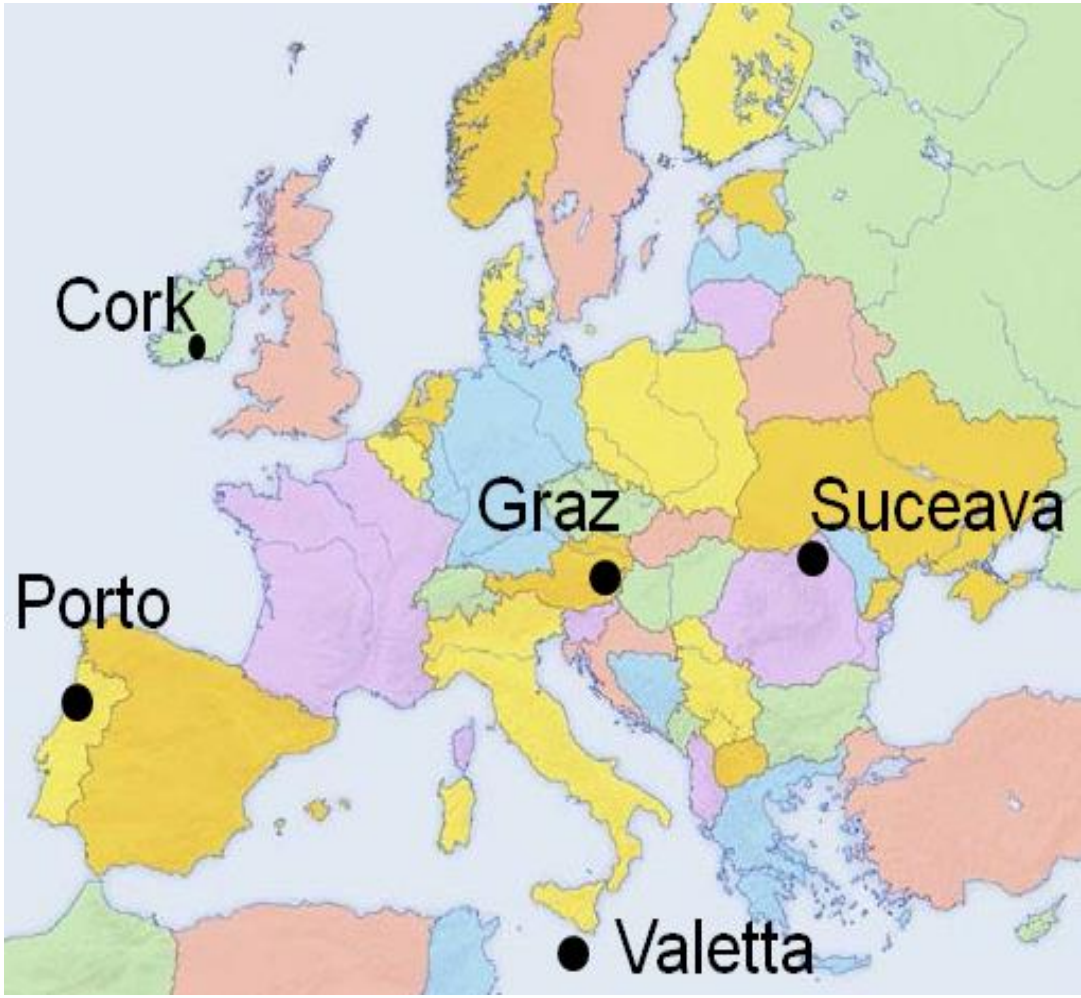
Follower Cities

Integral part of the team - replicating successfully tested solutions

→ **Communication and dissemination strategy**



What information needs to be collected and shared?

- **Performance** of the solutions in terms of developed energy, environmental, economic and social metrics
- The **business cases/models**
- **Factors affecting replicability** - key success factors, impact of local specifics on success, key stakeholders to be involved, standardisation and interoperability issues.
- Detailed information on the **implementation** of each solution – including stakeholder involvement and relevant policy frameworks

- Prepare **Baseline Assessment** of current situation, interest and needs
- Develop **Replication Plan**
- Receive tailor-made **capacity building** activities

City Interest Group

20 additional cities to expand the potential replication impact of the project

- **Activities:**
  - Participation in Lighthouse City study visits/capacity building workshops
  - Regular updated information on implementation
  - Helpdesk
  - Tailored capacity building workshop for first 3 to produce a Baseline Assessment

Co-operation

- All SmartCity Lighthouse projects
- FP7 projects
- EIP on Smart Cities and Communities
  - Online marketplace (https://eu-smartcities.eu/)
- Covenant of Mayors (e.g. follower cities SEAPs)
- International standard organizations (ISO, CEN, …)

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