

## URBAN-LEDs II

*Webinar: Smart Cities Strategies to Accelerate Low-Carbon and Climate Resilience Development.*

### Smart City Initiatives and Success Stories in Europe

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## URBAN-LEDs II

*Help us share best practices from cities!*

*Engage with @ICLEI\_Europe  
@Ruggedised @EUGrowSmarter  
@EUSmartCities using  
#UrbanLEDs #SmartCities*



# Smart cities taking relevance in the global energy and climate action agenda.

|   |   |   |  |   |   |   |
|---|---|---|--|---|---|---|
|  |  |  |  |  |  |  |
| Paris Agreement   | Sustainable Development Goals SDG 7, 9, 11, 13                                    | New Urban Agenda Habitat III  | Covenant of Mayors of Climate and Energy   | New EU Green Deal   | The European Digital Strategy   | Horizon Europe. Mission on carbon neutral and smart cities                          |



# European Innovation Partnership on Smart Cities and Communities (SCC1) for a low carbon and climate-resilient development

- Europe's largest smart city initiative
- Funded by the Horizon 2020 research and innovation programme.
- Brings together cities, industry and citizens to demonstrate solutions and business models that can be scaled up and replicated, and create jobs

7

years of funding for  
lighthouse projects

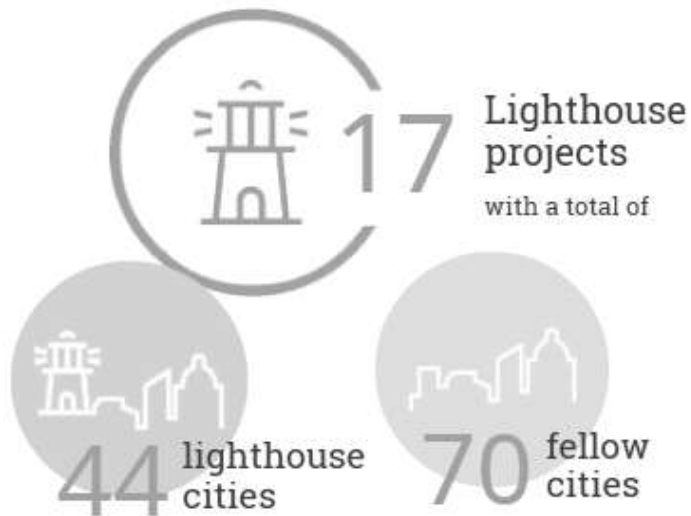
>100€

million available for  
projects

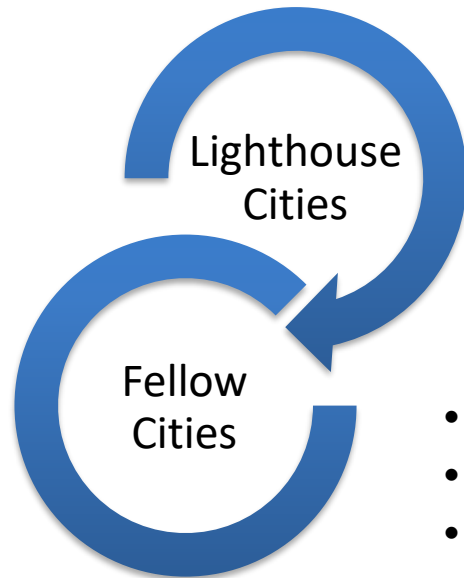
>300€

million co-funds

# EU Smart Cities and Communities Projects



# Smart City solutions for low carbon and climate resilient development

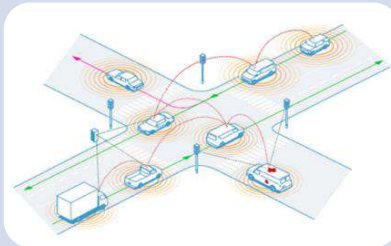


- Innovative solutions
- First-mover-risk
- New business models
- Citizens engagement

- Active collaboration with LC
- Replication of solutions
- Scalable solutions
- Impact-based upscaling

Smart cities solutions to support the achievement of local sustainability goals.

# Smart city solutions in the core of urban sustainability and sustainable energy and climate action process



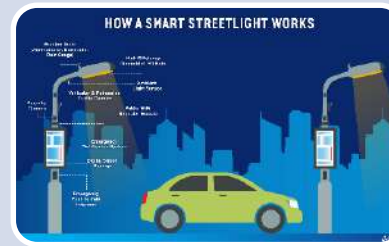
## Sustainable Mobility

- Mobility as a service
- Electric mobility
- Smart traffic management
- Car/ Bike Sharing



## Sustainable Districts and Built Environment

- Smart buildings
- Smart thermal grids
- Smart energy tenants




## ICTs and Integrated Infrastructures.















- Smart lighting (+EV charging)
- Open Data Platforms
- Smart Waste Mgmt.

Replication of smart city solutions to accelerate action

SEAPs (energy efficiency), SECAPs (Mitigation Actions), SUMP, others..

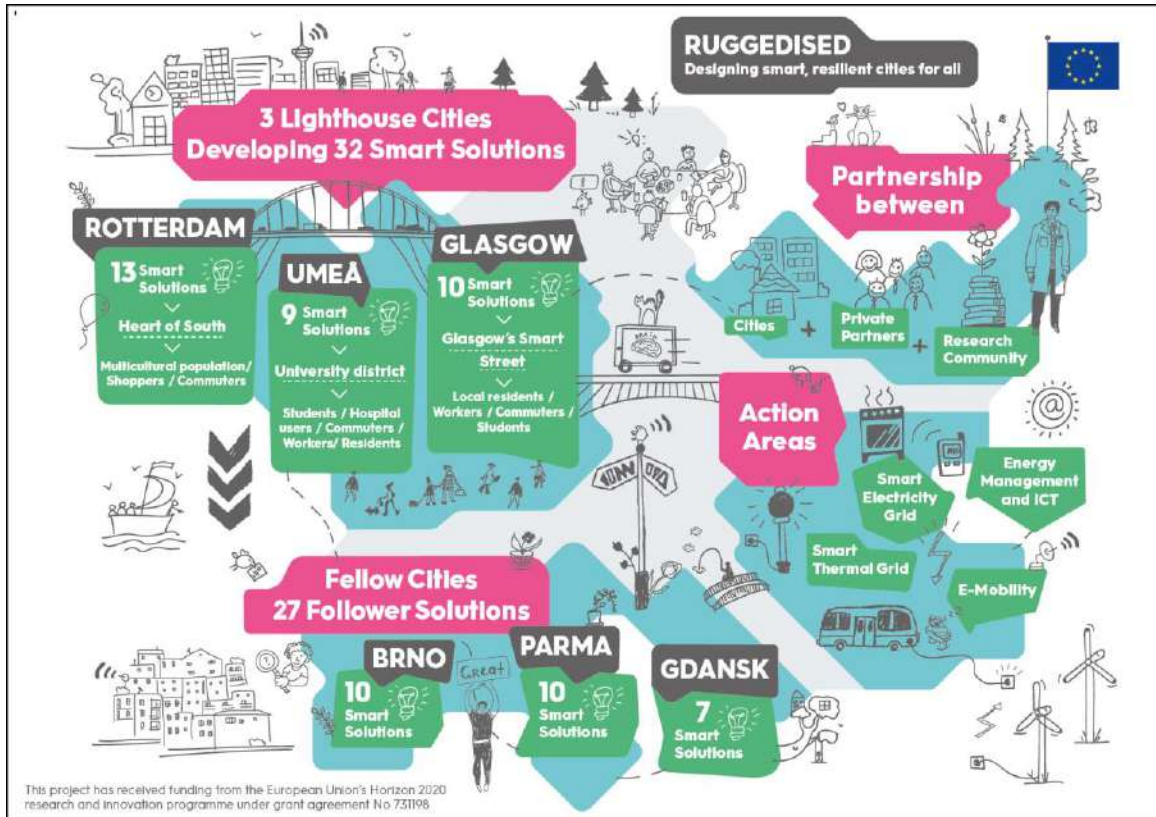
# GrowSmarter smart solutions for energy and climate

 **12 SMART SOLUTIONS: SELECTED IMPACTS**

|   |   |   |  |
|---|---|---|--|
|  <b>LOW ENERGY DISTRICTS</b>         |  <b>1. ENERGY RETROFITTING OF BUILDINGS</b><br><i>Up to 76% energy consumption saved</i>   |  <b>2. SMART BUILDING LOGISTICS</b><br><i>56% less time spent by delivery trucks in traffic</i>                                 |  |
|   |  <b>3. SMART, ENERGY SAVING TENANTS</b><br><i>Raised awareness of energy consumption led to 15% electricity savings</i>  |  <b>4. LOCAL RENEWABLE ENERGY PRODUCTION</b><br><i>Up to 65% of communal space energy consumption provided by photovoltaics</i> |  |
|   |  <b>INTEGRATED INFRASTRUCTURES</b>   |  <b>5. SMART LIGHTING, LAMPPOSTS AND TRAFFIC POSTS AS HUBS FOR COMMUNICATION</b><br><i>CO<sub>2</sub> reduced by up to 31%</i>   |  <b>6. NEW BUSINESS MODELS FOR DISTRICT HEATING AND COOLING</b><br><i>73% of excess heat recovered</i> |
|   |   |  <b>7. SMART WASTE COLLECTION, TURNING WASTE INTO ENERGY</b><br><i>Unsorted waste reduced by 66%</i>                             |  <b>8. BIG OPEN DATA PLATFORM</b><br><i>Shared data used more efficiently</i>                          |
|  <b>SUSTAINABLE URBAN MOBILITY</b> |  <b>9. SUSTAINABLE DELIVERY</b><br><i>Air pollution reduced in urban areas</i>  |  <b>10. SMART TRAFFIC MANAGEMENT</b><br><i>Reduces time spent in traffic</i>   |  |
|   |  <b>11. ALTERNATIVE FUEL-DRIVEN VEHICLES FOR DE-CARBONISING AND BETTER AIR QUALITY</b><br><i>CO<sub>2</sub> reduced by more than 100 tons per year with 36 e-vehicle charging points</i> |  <b>12. SMART MOBILITY SOLUTIONS</b><br><i>CO<sub>2</sub> reduced between 60 and 99%</i>                                      |  |



# Ruggedised smart solutions for energy and climate



# Best practices in Europe



**EIP-SCC**  
European Innovation Partnership  
on Smart Cities and Communities

**The Marketplace:  
Matchmaking and Action Clusters**

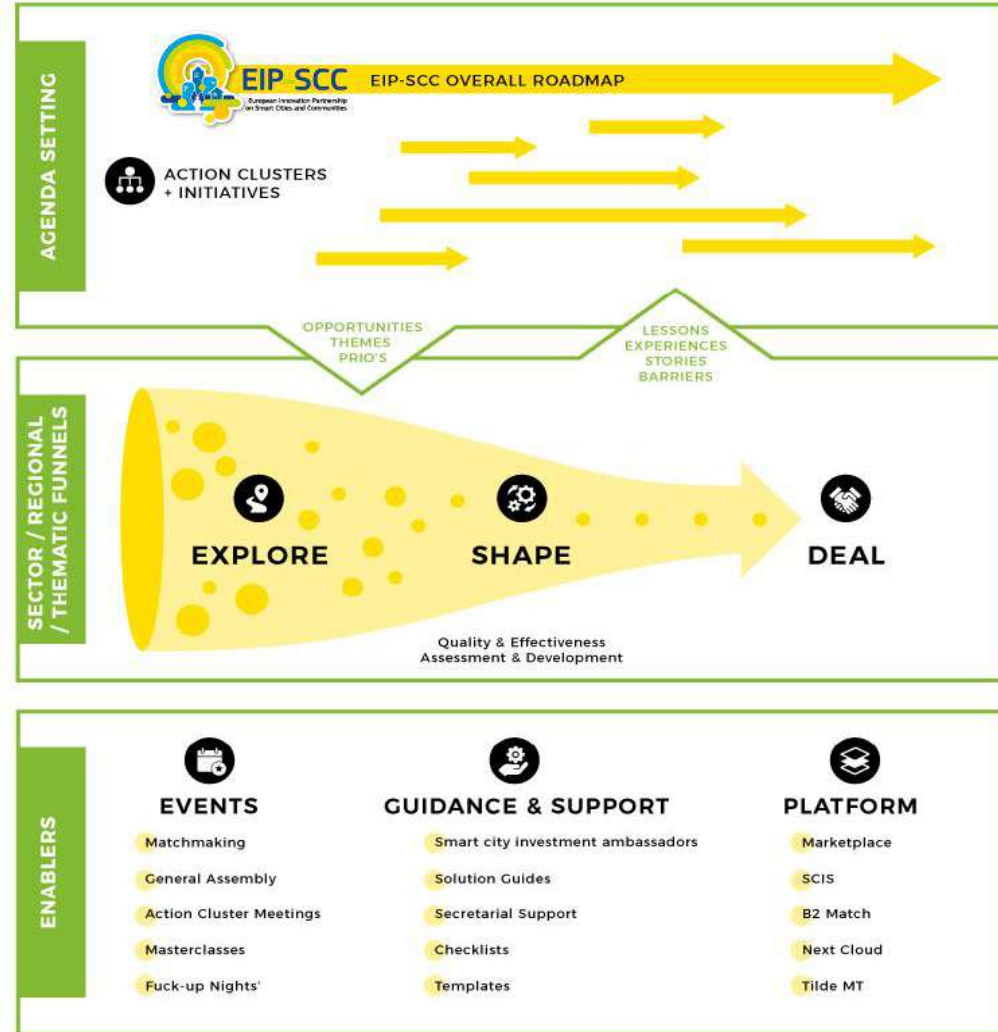


European  
Commission

<https://eu-smartcities.eu>  
<https://smartcities-infosystem.eu/>

# The Marketplace

- Knowledge repository of EU smart cities projects *(combined with the Smart Cities information System)*
- One-stop-shop for those who look to bring smart city solutions / projects to the market.
- Action Clusters



<https://eu-smartcities.eu>

# Urban-LEDS II project

Time frame: 1/04/2017 – 30/04/2021

Lead partner



Implementing partner



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