European Innovation Partnership – the European landscape, main challenges & opportunities
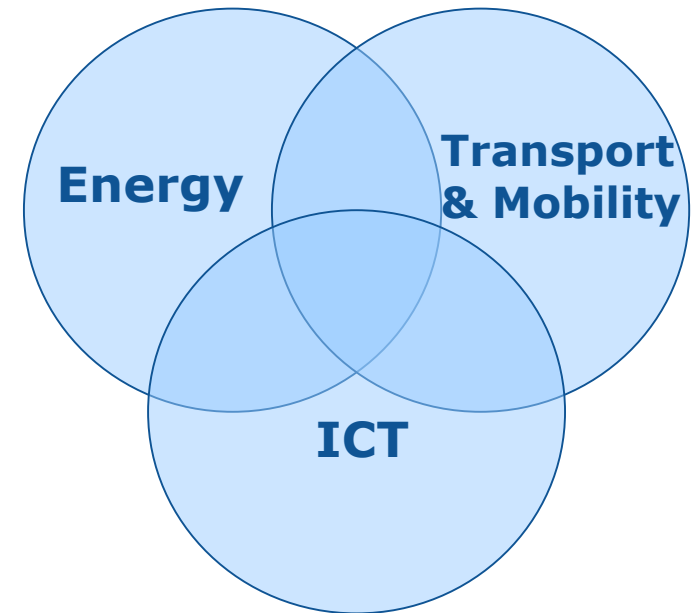
Mercè Griera i Fisa

**Head of Sector Research and Innovation
Smart Cities and Sustainability
Directorate-General for Communications
Networks, Content and Technologies
(CONNECT)
European Commission**

Smart Cities

Integrated approach to complement sector policies

- o Focus on the intersection of Energy, Transport and ICT
- o Integrate energy, transport, and ICT infrastructure
- o Roll-out of mature innovative technologies at large scale
- o Innovation driven process
- o Serving energy and climate policy
- o An integral part of the Urban Agenda

Key European Support

Mobilising & partnering stakeholders

The European Innovation Partnership on Smart Cities and Communities

Seed funding for demonstration & market uptake

Horizon 2020
- **Smart Cities and Communities Focus Area**
- Smart Urban Mobility, IoT Pilots, EeB PPP.

Other funding
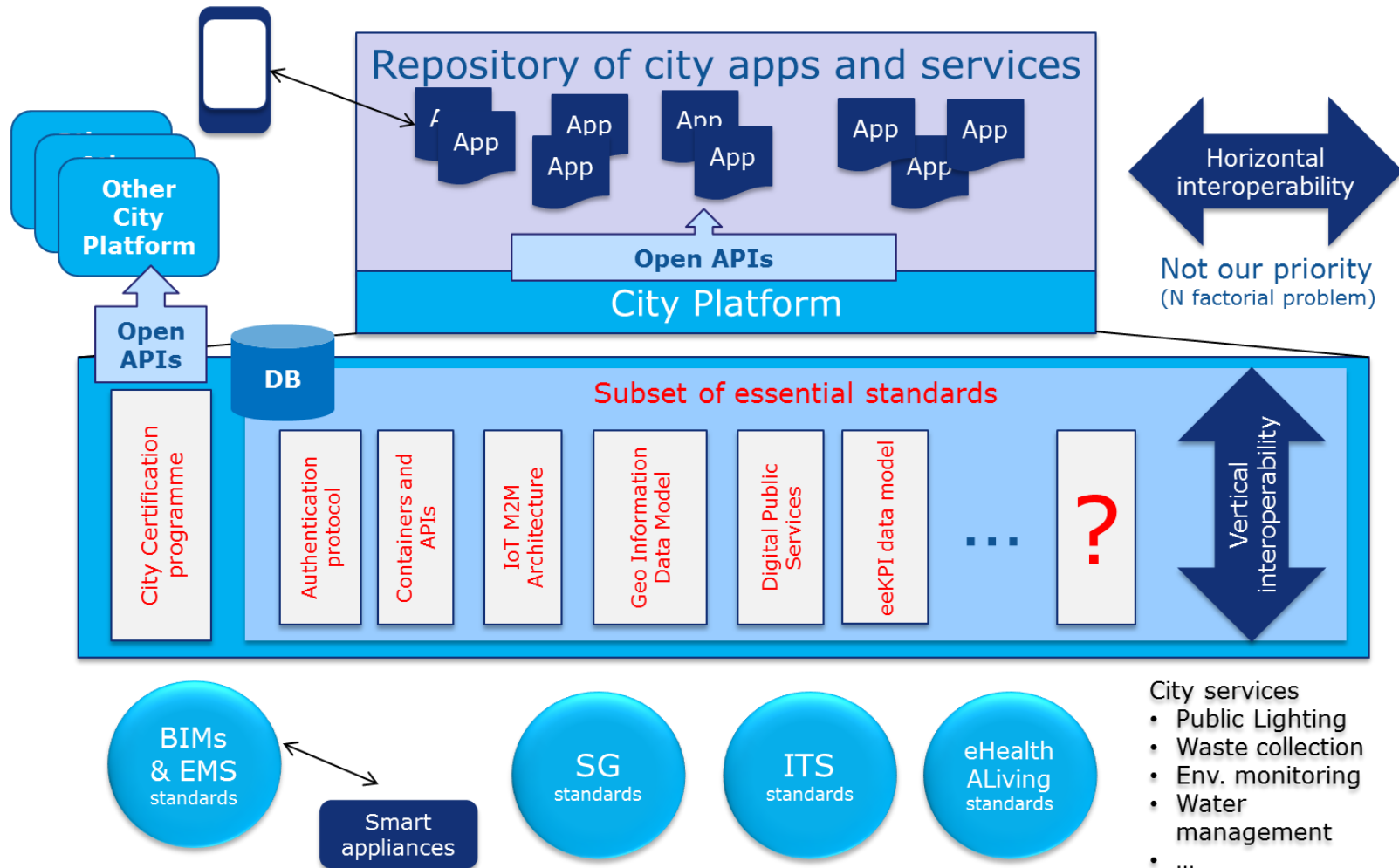
e.g.
- European Structural Investment Funds
- CEF
- **European Fund for Strategic Investments**

1.- The European Innovation Partnership

October 2013: Strategic Implementation Plan

↓

Operational Implementation Plan

↓

February- June 2014: Invitation for Commitments

→

370 commitments

3000 partners from 31 countries

↑

October 2014: 6 Action Clusters

Sustainable Urban Mobility |
Sustainable Districts & Built Environment |
Integrated Infrastructures |
Citizen Focus |
Integrated Planning & Management and Policy & Regulation |
Business Models, Finance & Procurement

Urban Platforms – Connecting Infrastructures

MoU on Urban Platforms - Goals

Develop a set of principles and a joint **reference architecture** framework to enable interoperability, scalability and open interfaces to integrate different solutions

Develop a joint **data and service ontology** to be used by individual Smart cities commercial products and solutions

Accelerate the adoption of the developed framework by standardisation bodies

Comply with any joint standards and framework when developing individual Smart Cities commercial products and solutions

Work with cities to develop tailored operational frameworks (both for installation and servicing phases) based on different business models (e.g., own city infrastructure, cloud-based solution, etc.)

MoU on Urban Platforms

Industry Initiative facilitated by the European Commission

1st signatures in Berlin – May 2015

Ambitious objectives:

- **By 2018, create a strong EU city market for Urban Platforms**
- **By 2025 300m residents of EU cities use Urban Platform**

http://ec.europa.eu/digital-agenda/en/news/memorandum-understanding-towards-open-urban-platforms-smart-cities-and-communities
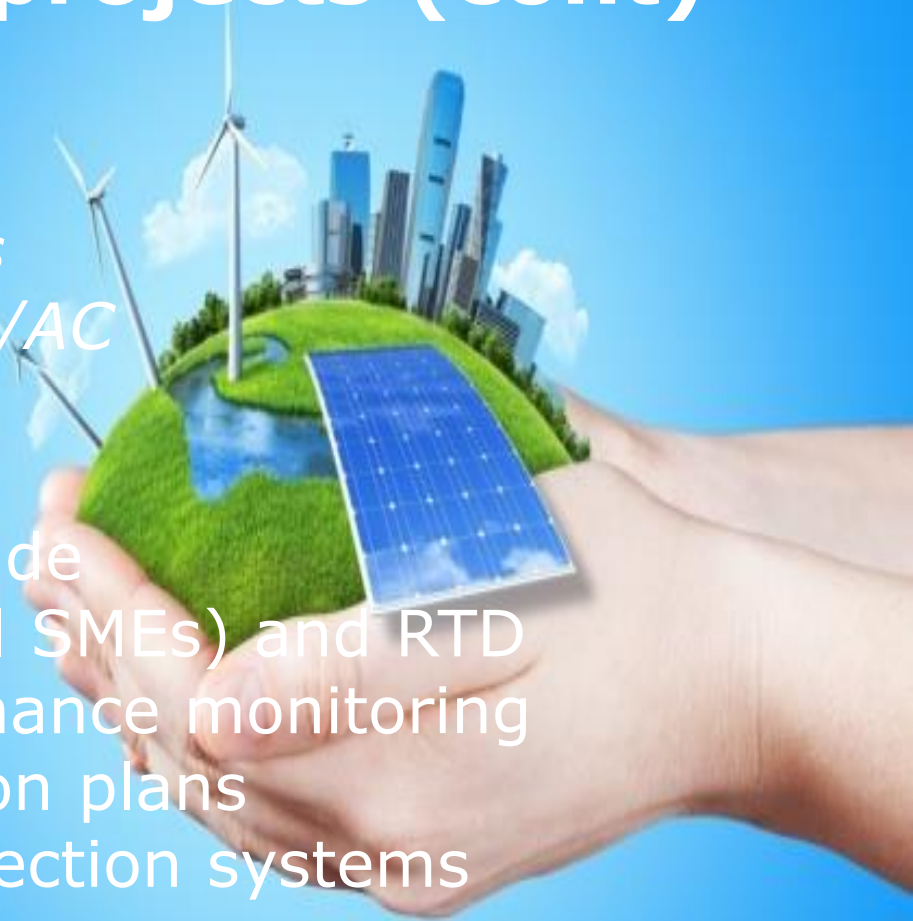
2- H2020: Lighthouse projects

Conditions:

- *Cover 3 areas:*
    District of Smart Buildings
    Energy at district level
    Low carbon ICT
    Electro-mobility
- Part of CoM *Action Plan (annex)*
- ICT platforms based on open specifications
- Funding for scaling-up and replication from other parts (ESFI)
- TRL 7 and more – Innovation is integration of technologies and new business models

H2020: Lighthouse projects (cont)

- *Consortia -* cities
  3 lighthouse cities
  at least 3 follower cities
  the 6 from different MS/AC
  Lighthouse only once
  geographical coverage
- Consortia should also include industry (in particular local SMEs) and RTD
- At least 2 years of performance monitoring
- Describe detailed replication plans
- Contribute to the data collection systems

H2020: Lighthouse projects (cont)

- Non-eligible Costs:
  Construction, retrofitting, insulation purchasing EVs, standard ICT, conventional RES, appliances

- Eligible costs:
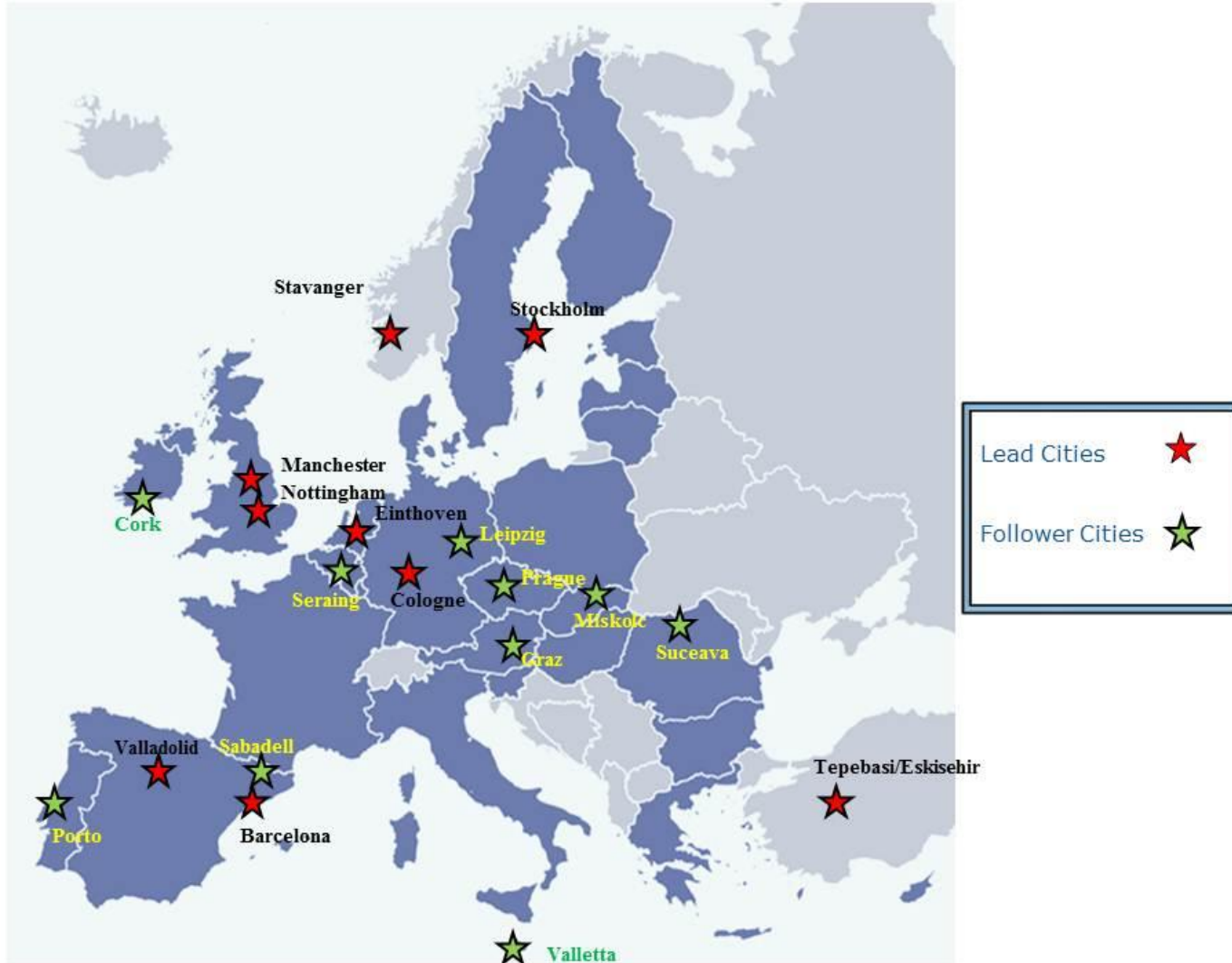 Integration of storage and RES, BEMs, ICT Platforms, economic research, replication plans, training,

  Funding: between EUR 12 to 18 million
  Innovation Action
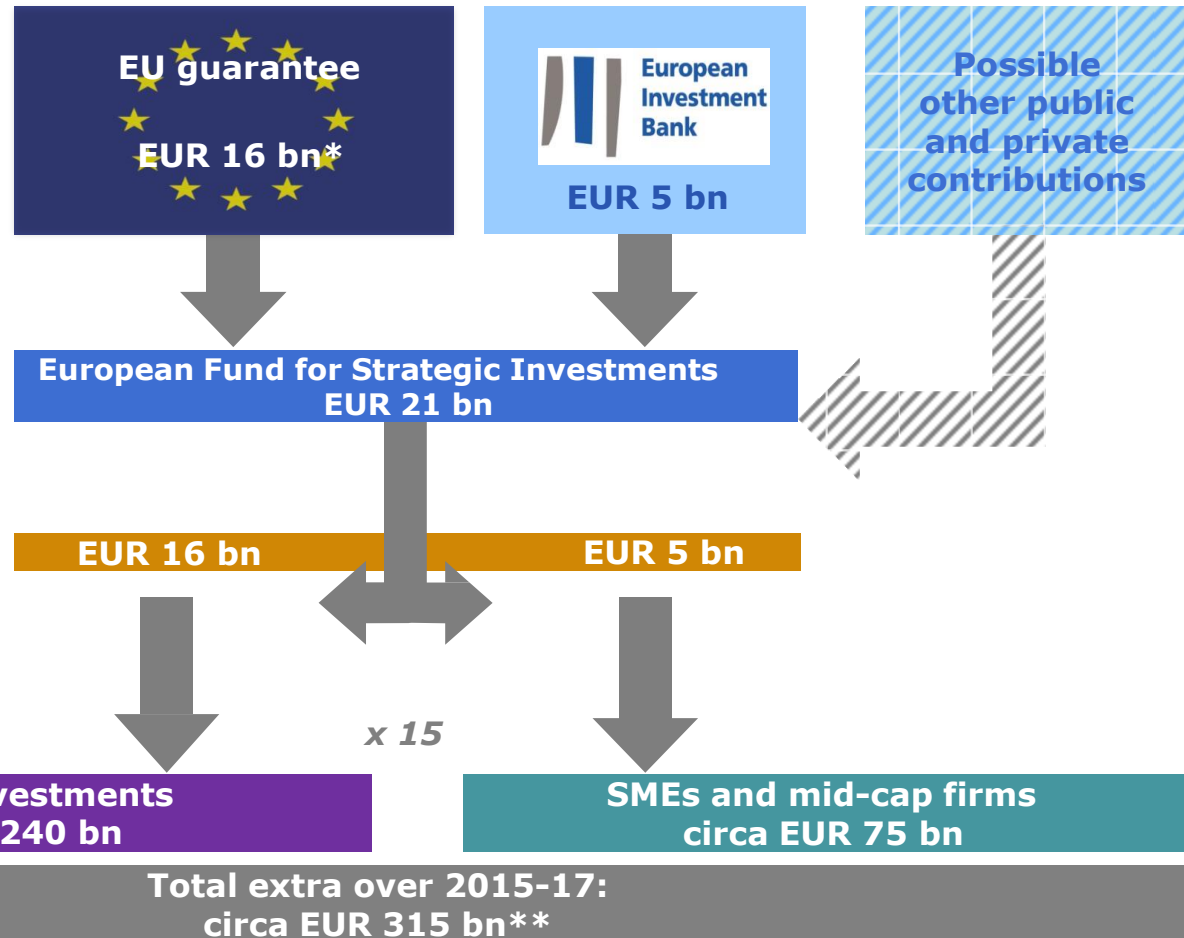 Opening 8 December 2015
  Deadline: 5 April 2016

HORIZON 2020 – Selected cities in **Lighthouse projects** in 2014 Call

3.- European Fund for Strategic Investments

EU guarantee

EUR 16 bn*

European Investment Bank

EUR 5 bn

Possible other public and private contributions

European Fund for Strategic Investments
EUR 21 bn

EUR 16 bn   EUR 5 bn

x 15

Long-term investments
circa EUR 240 bn

SMEs and mid-cap firms
circa EUR 75 bn

Total extra over 2015-17:
circa EUR 315 bn**

* 50% guarantee = EUR 8 bn from Connecting Europe Facility (3.3), Horizon 2020 (2.7) and budget margin (2)
** Net of the initial EU contributions used as guarantee: EUR 307 bn

More information

SCC EIP:
http://ec.europa.eu/eip/smartcities/

Towards Open Urban Platforms for Smart Cities:
http://ec.europa.eu/digital-agenda/en/news/memorandum-understanding-towards-open-urban-platforms-smart-cities-and-communities

European Fund for Strategic Investments:
http://ec.europa.eu/priorities/jobs-growth-investment/plan/index_en.htm

H2020 Participant Portal:
http://ec.europa.eu/research/participants/portal/desktop/en/home.html

Thank you!

http://ec.europa.eu/eip/smartcities
http://ec.europa.eu/research/participants/portal/desktop/en/home.html

European
Commission