

BUILDING SMART CITIES TOGETHER

SHARINGCITIES

Sustainable urbanization, Smart
Cities and Nature Based Solutions

Building Smart Cities Together

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Lisboa E-Nova

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LISBOA e-nova

Private association aiming to contribute to the sustainable development of the city of Lisbon.

Main Activities

- Energy efficiency and renewables
- Environmental resources management
- Mobility
- Urban planning
- Environmental awareness
- Education for Sustainable Development

Associates



Facing Challenges Common to Many Cities

- Population Growth
- Economic Growth & Financial Constraints
- Sustainability and Resilience
- Brownfield Development
- Mass use of individual automobile
- Citizens engagement
- Massive Tourism
- ...

SHARING CITIES Key Facts

H2020: SCC-1 - Smart Cities and Communities lighthouse projects



01 01 2016

Start date



60

Months



25 M

EC funding



35

Partners



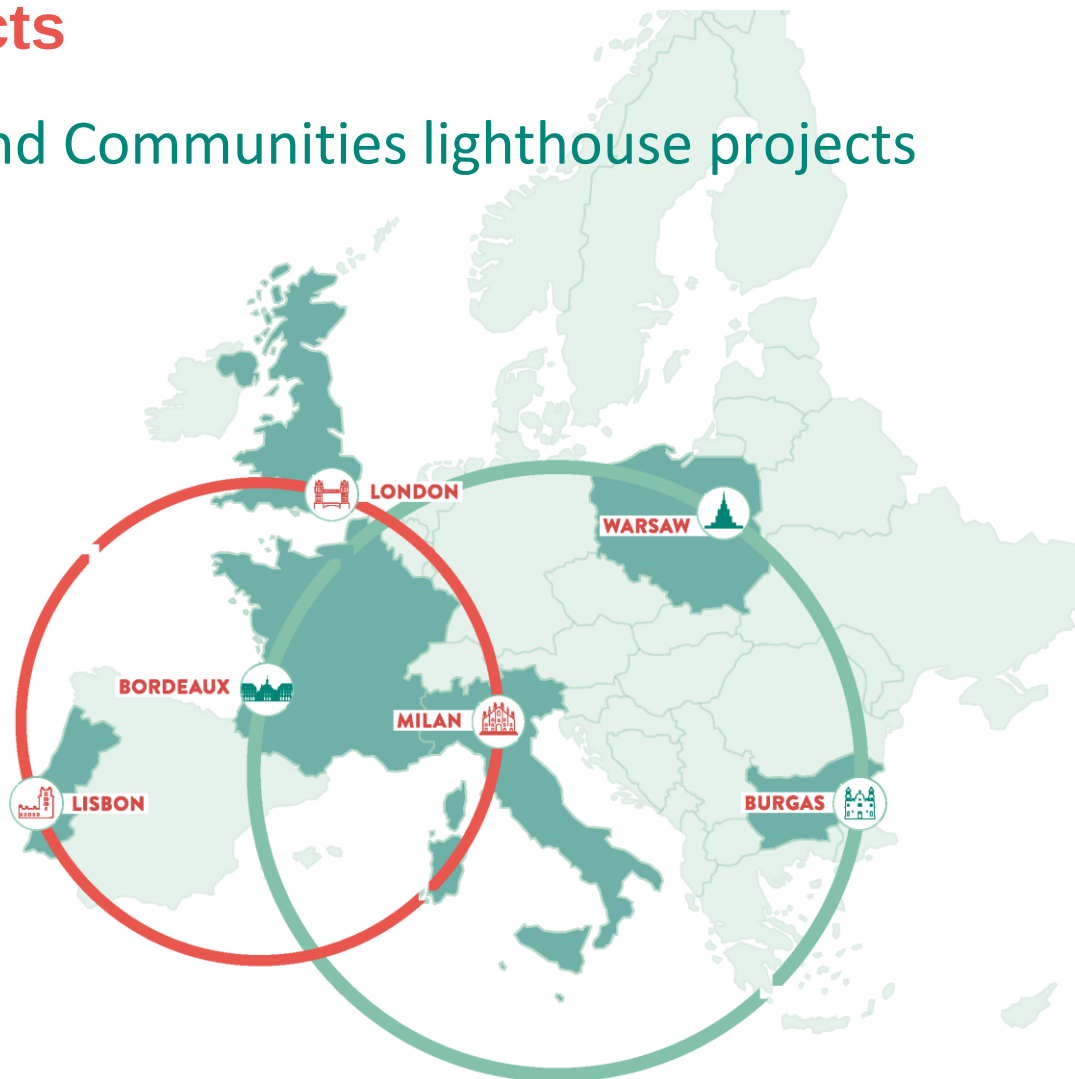
100 cities

Scale-up



500 M

Expected private capital



The 'Lighthouse' and 'Fellow' Cities



LISBON

BORDEAUX



LONDON

BURGAS



MILAN

VARSAW



Sharing Cities Activities

PEOPLE



engage with the **people**, we will develop **participatory** mechanisms for the **co-design** of smart city solutions

PLACE



demonstrate the significant **benefits** of smart city concepts and solutions by **focusing** on the **needs** of **low-energy neighbourhoods**: retrofitting buildings, installing integrated energy management systems and smart lamp posts, and introducing shared-use electric vehicle services

PLATFORM



Manage **city data** from a wide range of sources. Rely on **common principles, open technologies and standards**

10 Measures - 'Building Block' Repeatable Solutions



Citizen Engagement



Building Retrofit



**Sustainable energy
management systems**



eV Car Sharing



eBike Sharing



eV Charging



Smart Parking



eLogistics



Smart Lamp Posts

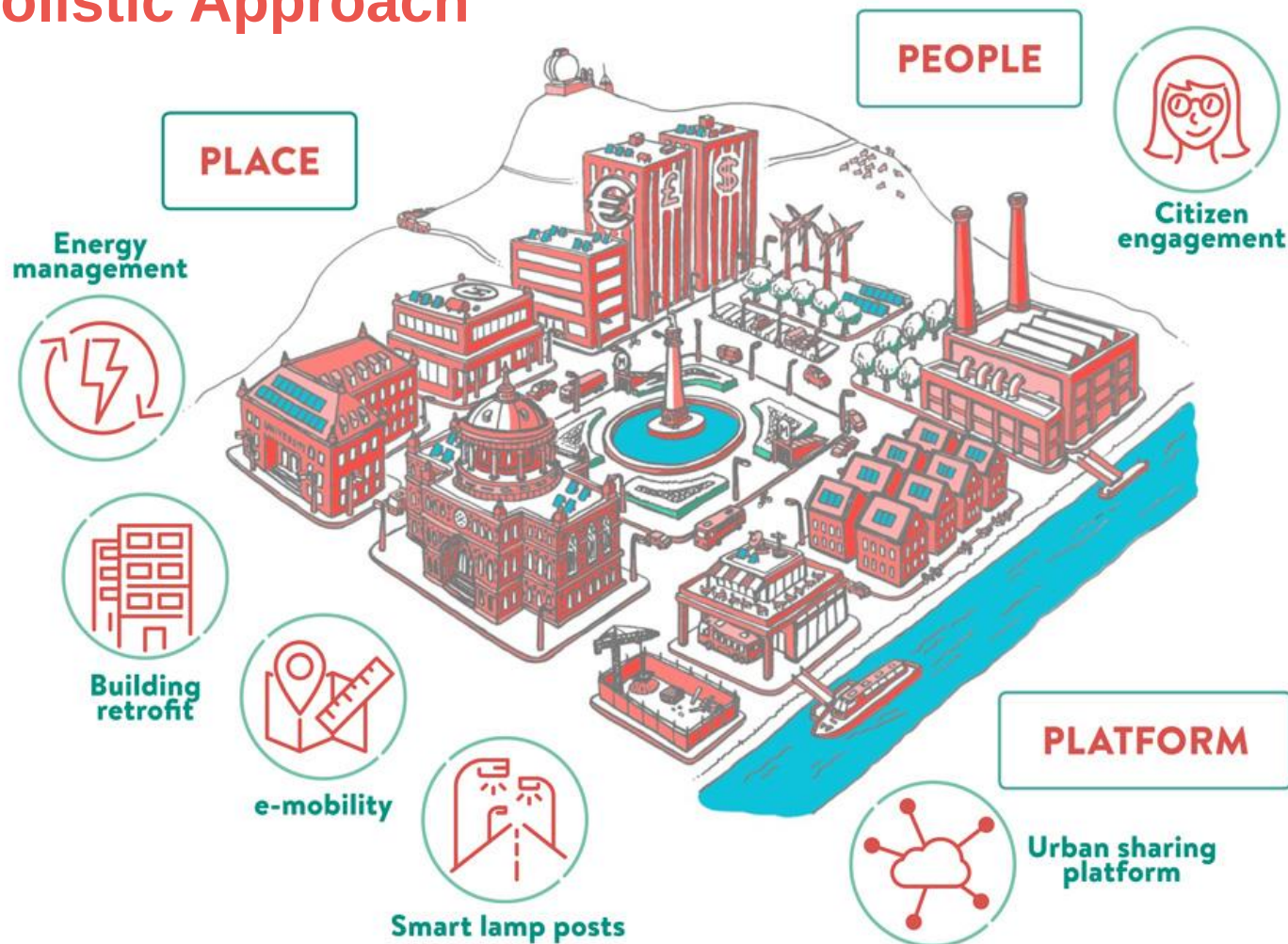


Urban Sharing Platform

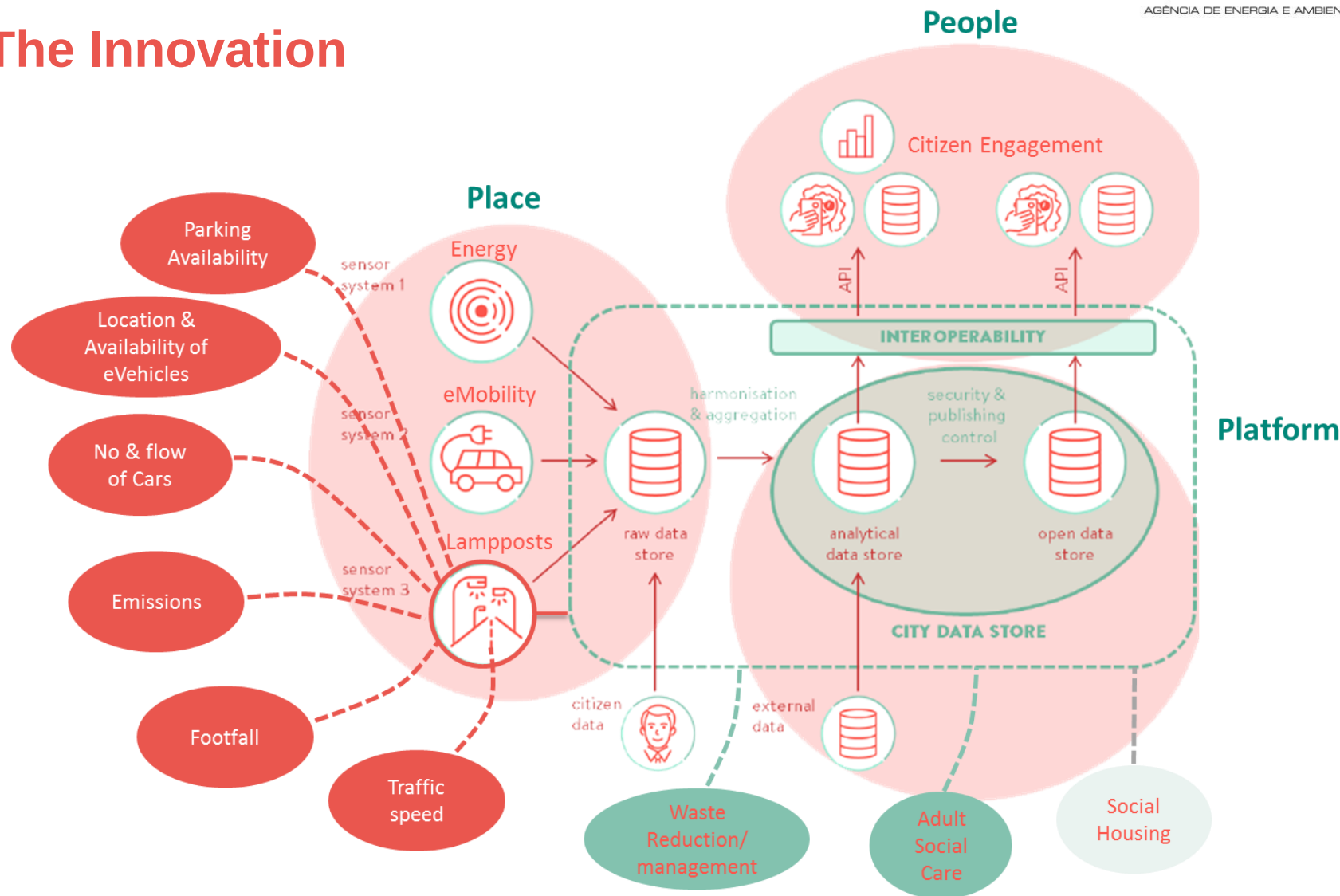
The Demonstration

	Citizen Engagement	Co-creation & co-design of digital services and interfaces by and for citizens and companies Design of incentives schemes - “District Bond”
	Building Retrofit	+600 social houses; 30 private housing blocks; 5 mixed owner blocks; 3 public buildings;
	Energy Management	Implementation and maintenance of a online interoperable Sustainable Energy Management System (SEMS) and a Building Energy Management System (BEMS)
	eMobility	+400 eVehicles; 200 new charging stations; +1100 tons of CO ₂ /year saved for e-mobility implementation in the pilot areas
	EV Car Sharing	+150 new eVehicles for public and community shared use; 7 Autonomous vehicles for public services
	eBikes	+ 200 e-bikes (+1500 expected)
	EV Charging	+180 Charging Points to be installed
	Smart Parking	+1000 parking spaces
	EV Logistics	+160 Logistics eVehicles
	Smart Lamp Posts	+3500 Smart Lamp Posts (light automation sensors; wi-fi sensors; environmental sensors; geofencing; traffic)
	Urban Platform	Open Standard reference architecture - “designed by three cities, built for many” Integration facilitator

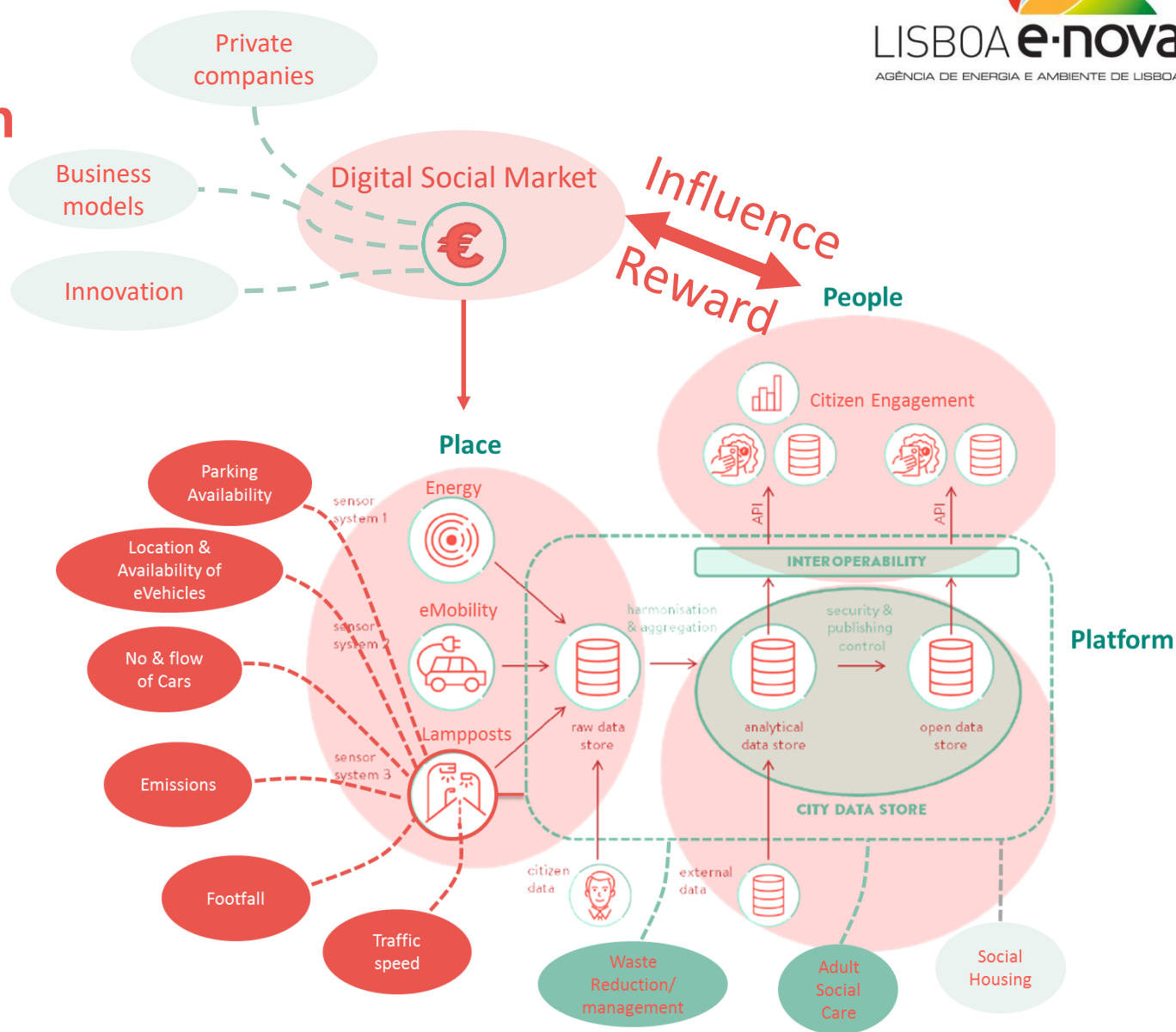
An Holistic Approach



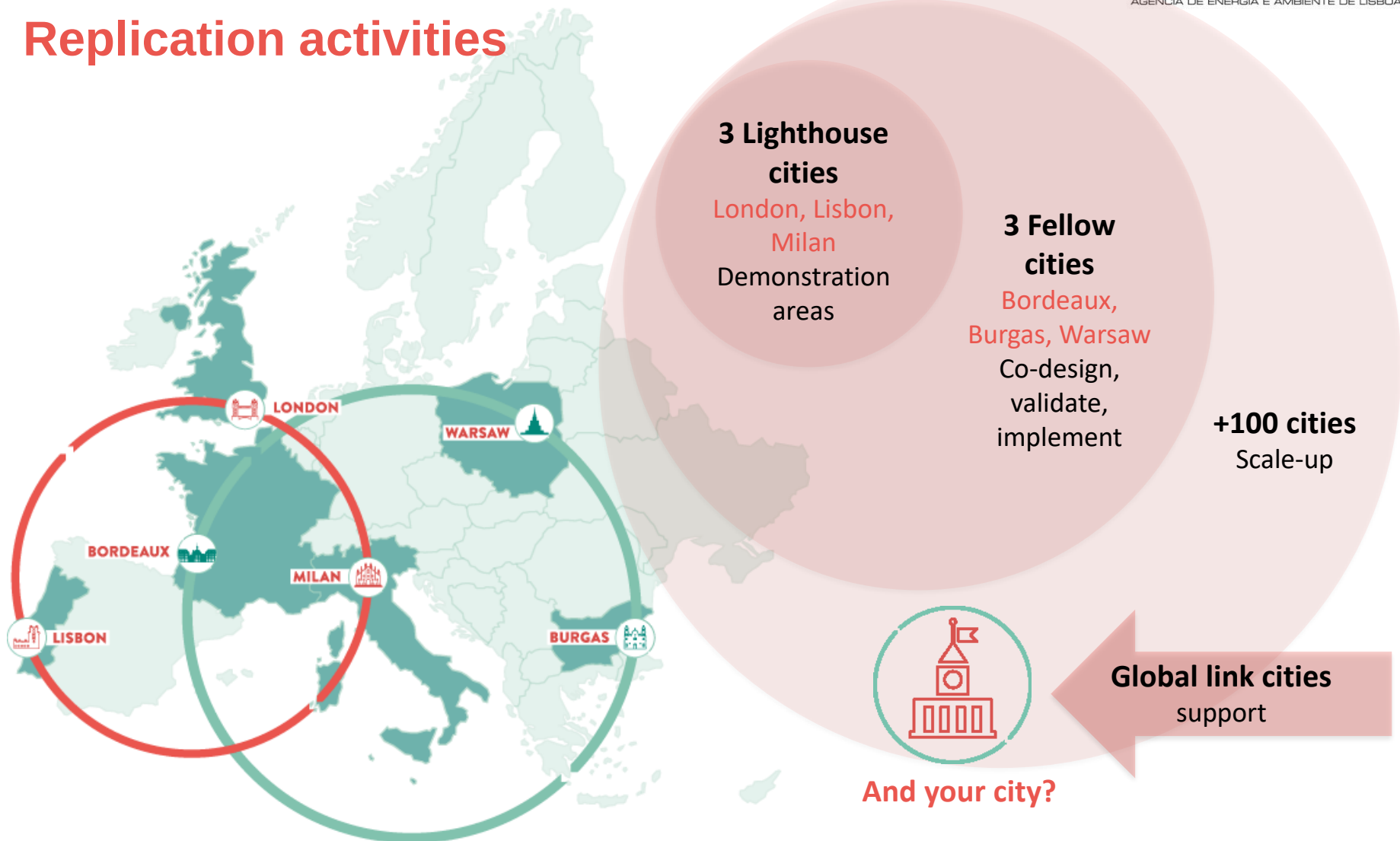
The Innovation



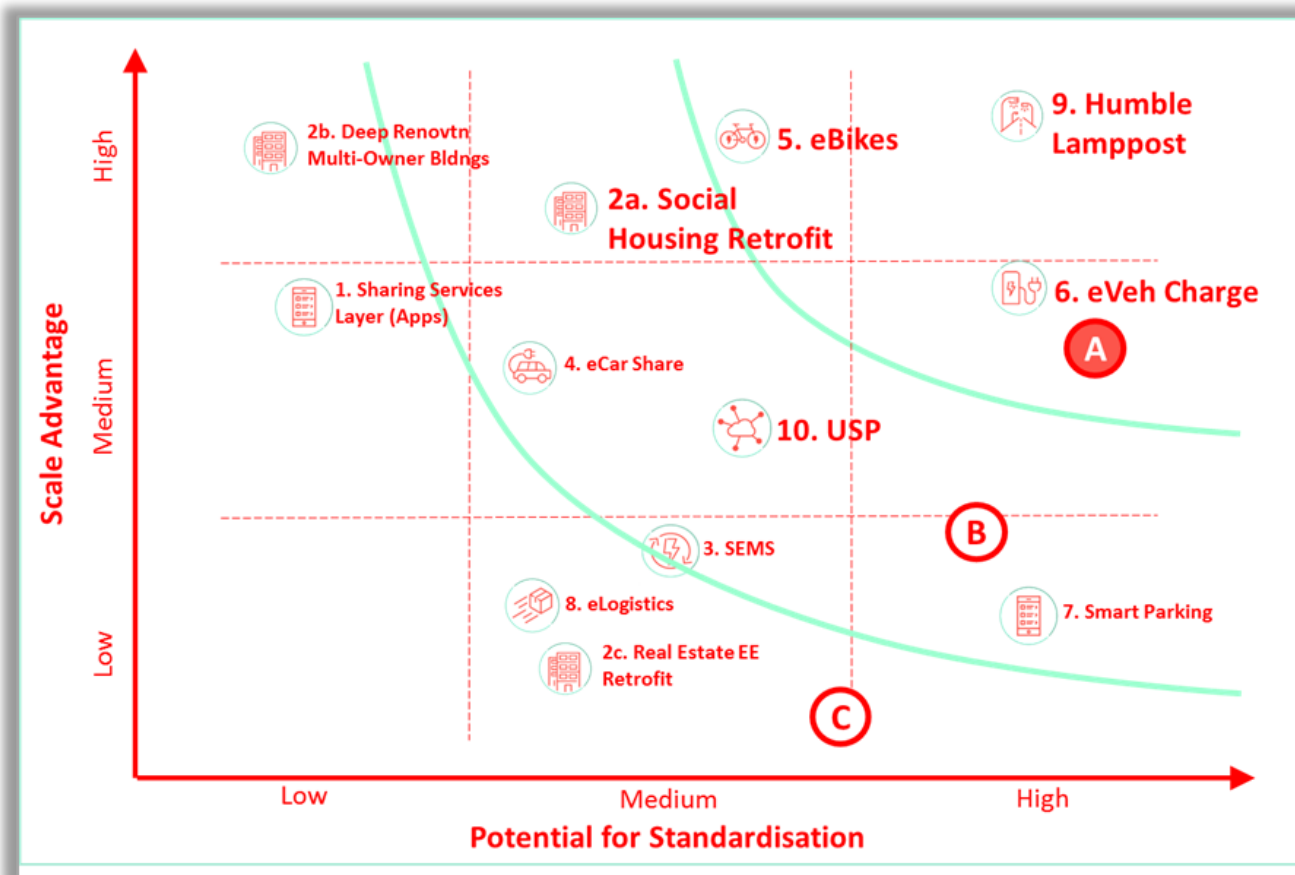
The Innovation



Replication activities

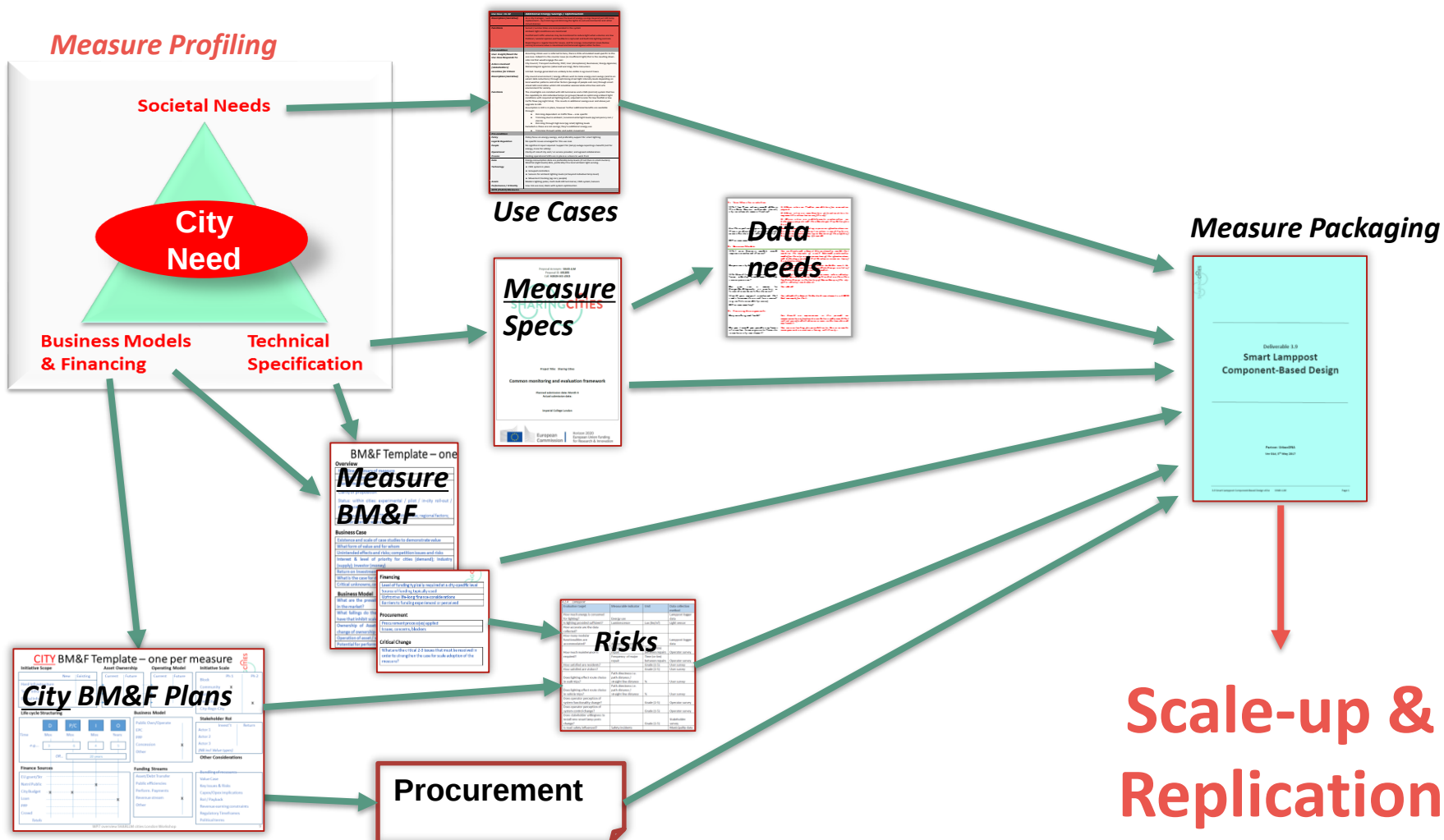


Measures Delivery – ‘Packaging’

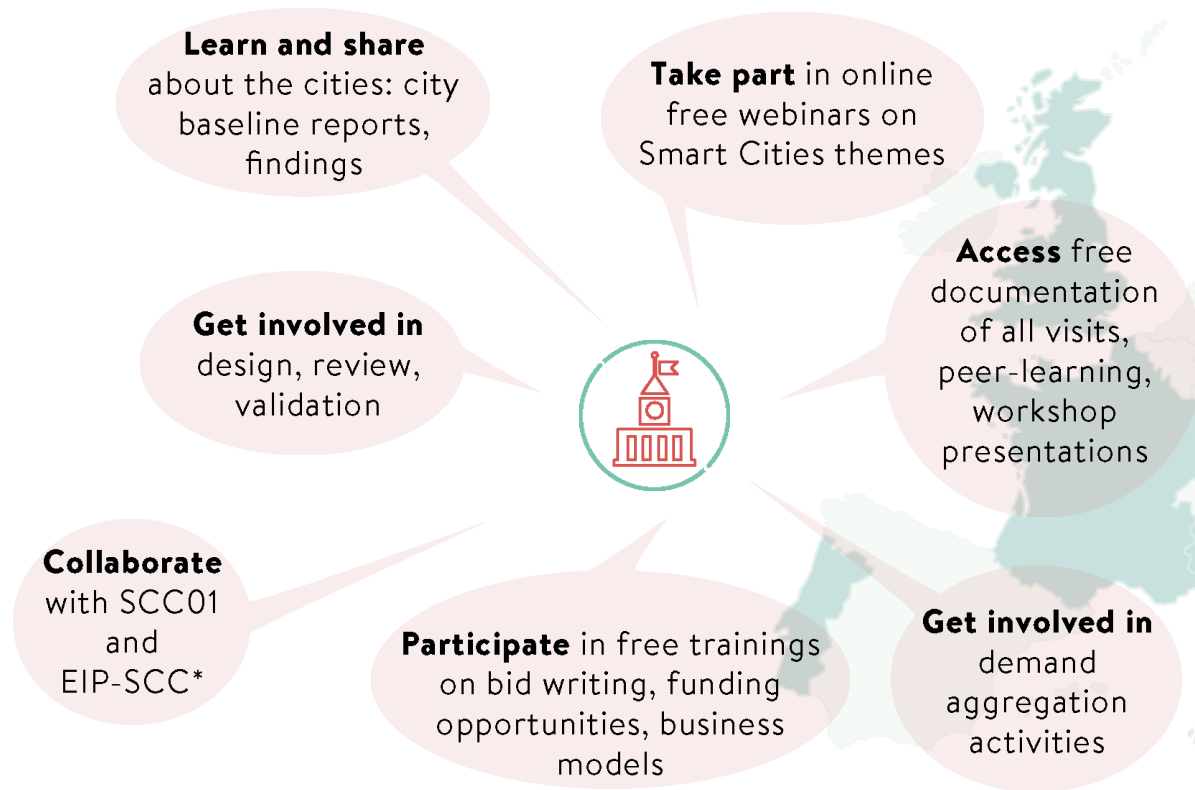


Provide substance for ‘Scale-Up’ cities to review, challenge, build on, plan for, & apply.

Measures Delivery – ‘Packaging’



Cities and Stakeholders Engagement



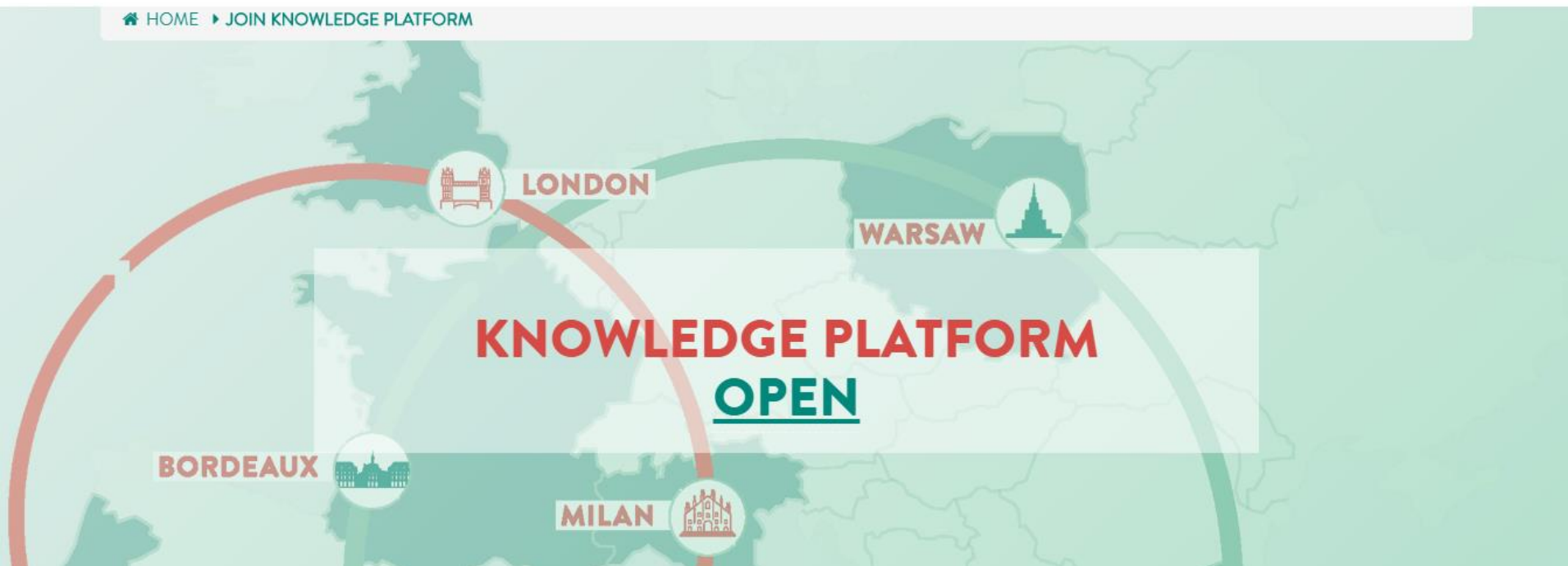
* European Innovation Partnership on Smart Cities and Communities

Join our Knowledge Platform



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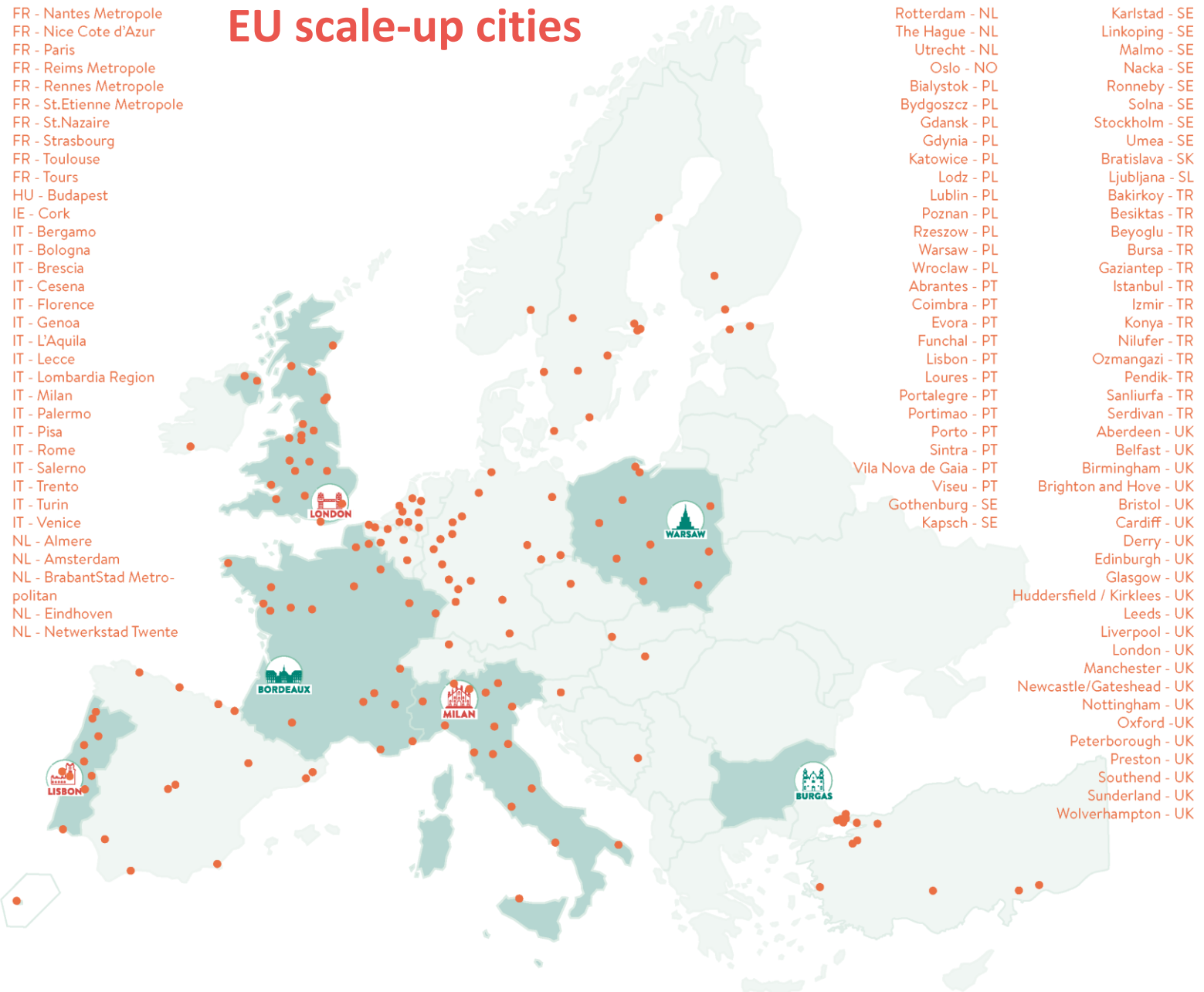
<http://www.sharingcities.eu/sharingcities/knowledge-platform>

EU scale-up cities

BA - Sarajevo
 BE - Antwerp
 BE - Brussels Region & City
 BE - Charleroi
 BE - Ghent
 BE - Kortrijk
 BE - Ostende
 BG - Burgas
 CH - Geneva
 CH - Zurich
 CZ - Prague
 DE - Berlin
 DE - Bonn
 DE - Bremen
 DE - Chemnitz
 DE - Cologne
 DE - Dortmund
 DE - Dresden
 DE - Dusseldorf
 DE - Essen
 DE - Frankfurt
 DE - Hagen
 DE - Hamburg
 DE - Karlsruhe
 DE - Leipzig
 DE - Mannheim
 DE - Munich
 DE - Munster
 DE - Nuremberg
 EE - Rakvere
 EE - Tallinn
 ES - Barcelona
 ES - Bilbao
 ES - Fuenlabrada
 ES - Gijon
 ES - Madrid
 ES - Malaga
 ES - Murcia
 ES - Santander
 ES - Saint Sebastian
 ES - Seville
 ES - Terrassa Metropolitan Area
 ES - Zaragoza
 FI - Espoo
 FI - Tampere
 FR - Amiens Metropole
 FR - Angers Loire Metropole
 FR - Bordeaux
 FR - Brest Metropole Oceane
 FR - Grand Nancy
 FR - Grenoble Alpes Metropole
 FR - Lille Communaute Urbane
 FR - Lyon
 FR - Marseille

FR - Nantes Metropole
 FR - Nice Cote d'Azur
 FR - Paris
 FR - Reims Metropole
 FR - Rennes Metropole
 FR - St.Etienne Metropole
 FR - St.Nazaire
 FR - Strasbourg
 FR - Toulouse
 FR - Tours
 HU - Budapest
 IE - Cork
 IT - Bergamo
 IT - Bologna
 IT - Brescia
 IT - Cesena
 IT - Florence
 IT - Genoa
 IT - L'Aquila
 IT - Lecce
 IT - Lombardia Region
 IT - Milan
 IT - Palermo
 IT - Pisa
 IT - Rome
 IT - Salerno
 IT - Trento
 IT - Turin
 IT - Venice
 NL - Almere
 NL - Amsterdam
 NL - BrabantStad Metropolitan
 NL - Eindhoven
 NL - Netwerkstad Twente

Rotterdam - NL
 The Hague - NL
 Utrecht - NL
 Oslo - NO
 Bialystok - PL
 Bydgoszcz - PL
 Gdansk - PL
 Gdynia - PL
 Katowice - PL
 Lodz - PL
 Lublin - PL
 Poznan - PL
 Rzeszow - PL
 Warsaw - PL
 Wroclaw - PL
 Abrantes - PT
 Coimbra - PT
 Evora - PT
 Funchal - PT
 Lisbon - PT
 Loures - PT
 Portalegre - PT
 Portimao - PT
 Porto - PT
 Sintra - PT
 Vila Nova de Gaia - PT
 Viseu - PT
 Gothenburg - SE
 Kapsch - SE
 Karlstad - SE
 Linkoping - SE
 Malmo - SE
 Nacka - SE
 Ronneby - SE
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 Gaziantep - TR
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 Konya - TR
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 Ozmangazi - TR
 Pendik - TR
 Sanliurfa - TR
 Serdivan - TR
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 Belfast - UK
 Birmingham - UK
 Brighton and Hove - UK
 Bristol - UK
 Cardiff - UK
 Derry - UK
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 Huddersfield / Kirklees - UK
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 Oxford - UK
 Peterborough - UK
 Preston - UK
 Southend - UK
 Sunderland - UK
 Wolverhampton - UK







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