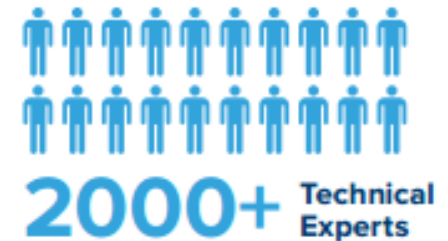


EU funding for smart cities towards a greener future

Guillaume Corradino
Director of Operations

Kozani, 20/09/19





- Independent, not for-profit membership organisation
- Members include innovation consultants, research centres, communication experts and clusters (Hello CluBe!), who co-operate in green innovation projects

Our mission:

- To pool eco-innovation expertise
- To support the dissemination and uptake of eco-innovative solutions in key areas: **bioeconomy**, **energy**, **smart cities**, **industry**

What EU funding for smart cities ?

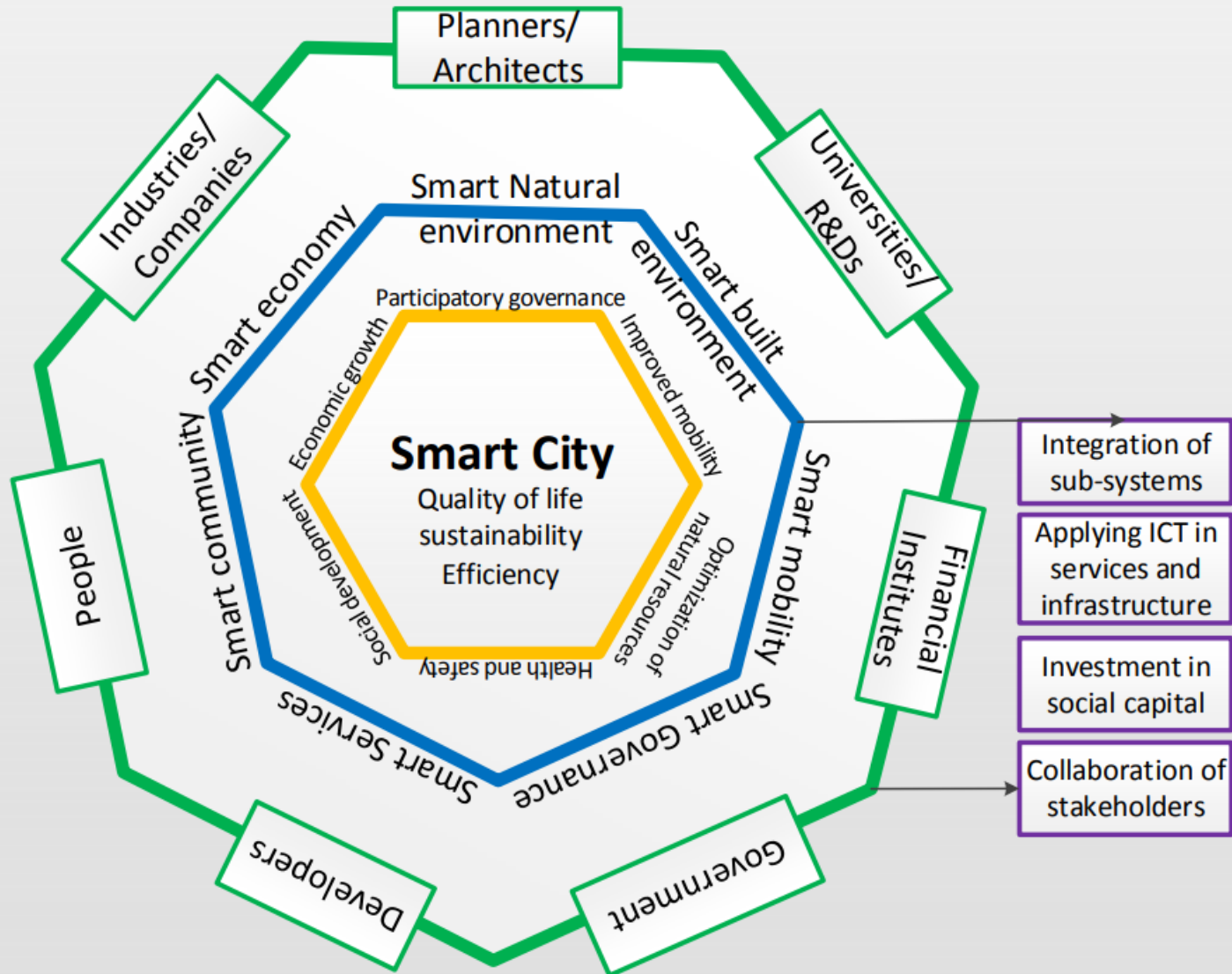


Starting point: what is a smart city?

« A Smart City is a sustainable and efficient City with high Quality of life that aims to address Urban challenges (improve mobility, optimize use of resources, improve Health and safety, improve social development, support economic growth and participatory governance) by **application of ICT** in its infrastructure and services, **collaboration** between its key stakeholders (Citizens, Universities, Government, Industry), **integration** of its main domains (environment, mobility, governance, community, industry, and services), and investment in Social capital. »

FF. Mosannenzadeh, D. Vettorato

Defining smart city: a conceptual framework based on keyword analysis, TeMA Journal of Land Use Mobility and Environment INPUT 2014



F. Mosannenzadeh, D. Vettorato – Defining smart city: a conceptual framework based on keyword analysis
TeMA Journal of Land Use Mobility and Environment INPUT 2014

Horizon 2020

- One funding opportunity that seems to best capture the Smart City concept:

LC-SC3-SCC-1: Smart Cities and Communities



Horizon 2020

- **LC-SLC-SC3-SCC-1: Smart Cities & Communities**
 - Innovation Action (70% funding)
 - Maximum EU Contribution 20M €
 - **Scope:** Demonstrate integrated innovative solutions for Positive Energy Blocks/Districts
 - 2 Lighthouse cities + at least 5 Fellow Cities
 - Focus on integration , energy management, user interaction, and scaling up / replication potential

Horizon 2020

- **LC-SC3-SCC-2: Positive Energy Districts and Neighbourhoods for urban energy transitions**
 - ERA-NET Cofund (P2P partnerships, 33% funding)
 - Maximum EU Contribution 5M €
 - **Scope:** to set up joint calls for proposals on positive energy blocks (demonstration, development, capacity building)
 - Calls will be open to third parties

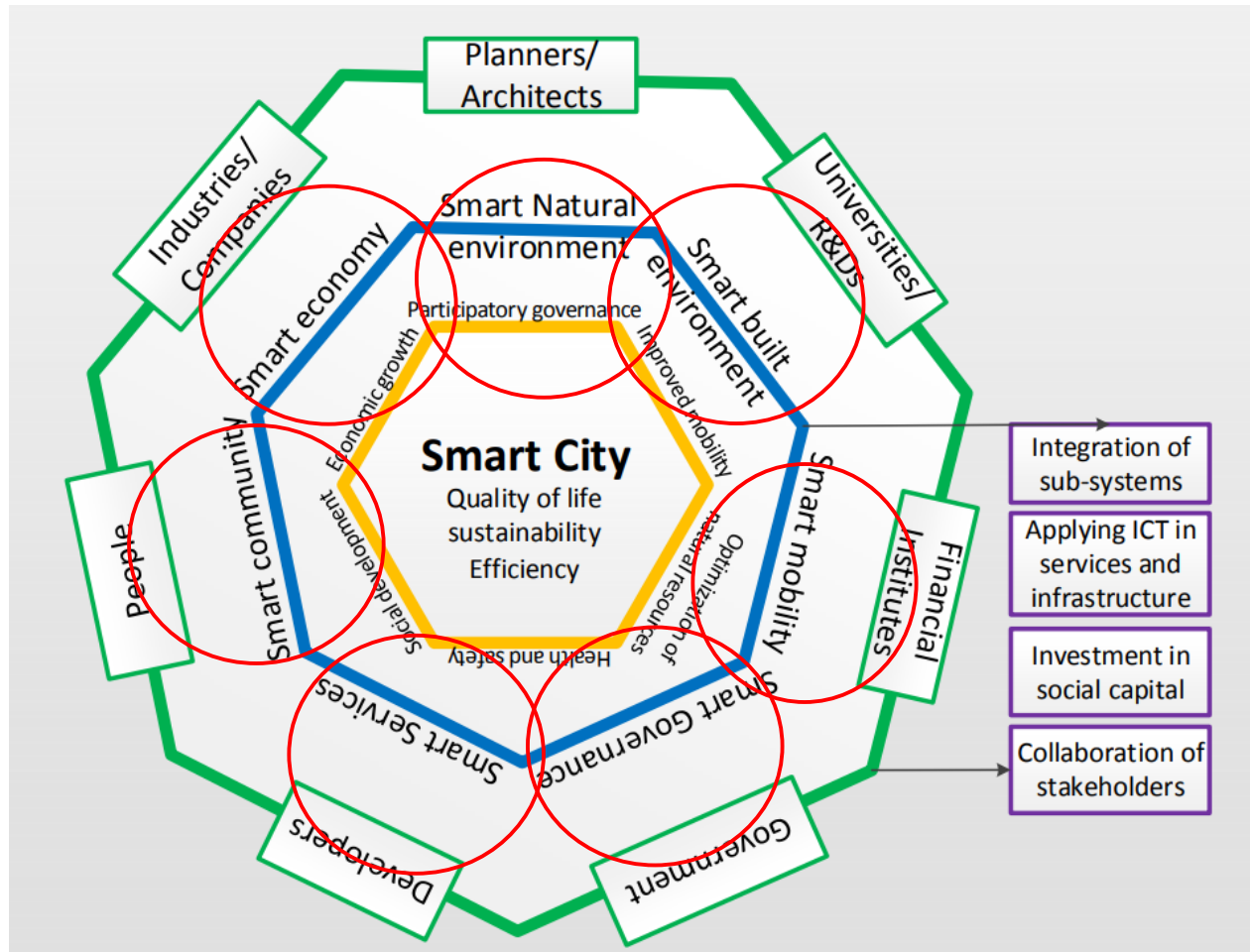
Horizon 2020

- **Special mention:**
 - **LC-SC3-SA-1-2020: Smart Airports**
 - New, based on Smart Cities approach
 - Focus: uptake of alternative fuels by the aviation sector
 - 1 Lighthouse + 2 Fellow airports

What else in Horizon 2020?



What else in Horizon 2020?



Horizon 2020

- Innovative actions for improving urban health and wellbeing (SC1-BHC-29)
- Supporting public authorities in driving the energy transition (LC-SC3-EC-5)
- Towards highly energy efficient and decarbonised buildings (LC-SC3-B4E-1)
- Stimulating demand for sustainable energy skills in the building sector (LC-SC3-B4E-2)
- Financing for energy efficiency investments - Smart Finance for Smart Buildings (LC-SC3-B4E-11)

Horizon 2020

- Innovative nature-based solutions for carbon neutral cities and improved air quality (LC-CLA-11)
- Cities as climate-resilient, connected multimodal nodes for smart and clean mobility (LC-MG-1-12)
- Next generation electrified vehicles for urban and suburban use (LC-GV-08)
- Pilot circular bio-based cities – sustainable production of bio-based products from urban biowaste and wastewater (CE-FNR-17)

and more...

Horizon 2020

- How to find the right funding opportunity under H2020?
 - <https://ec.europa.eu/programmes/horizon2020/en/h2020-sections>
 - Have a look at the most relevant “workprogrammes”
 - Secure, Clean and efficient energy
 - Smart Green, integrated transport
 - Climate action, environment, resource efficiency and raw materials

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

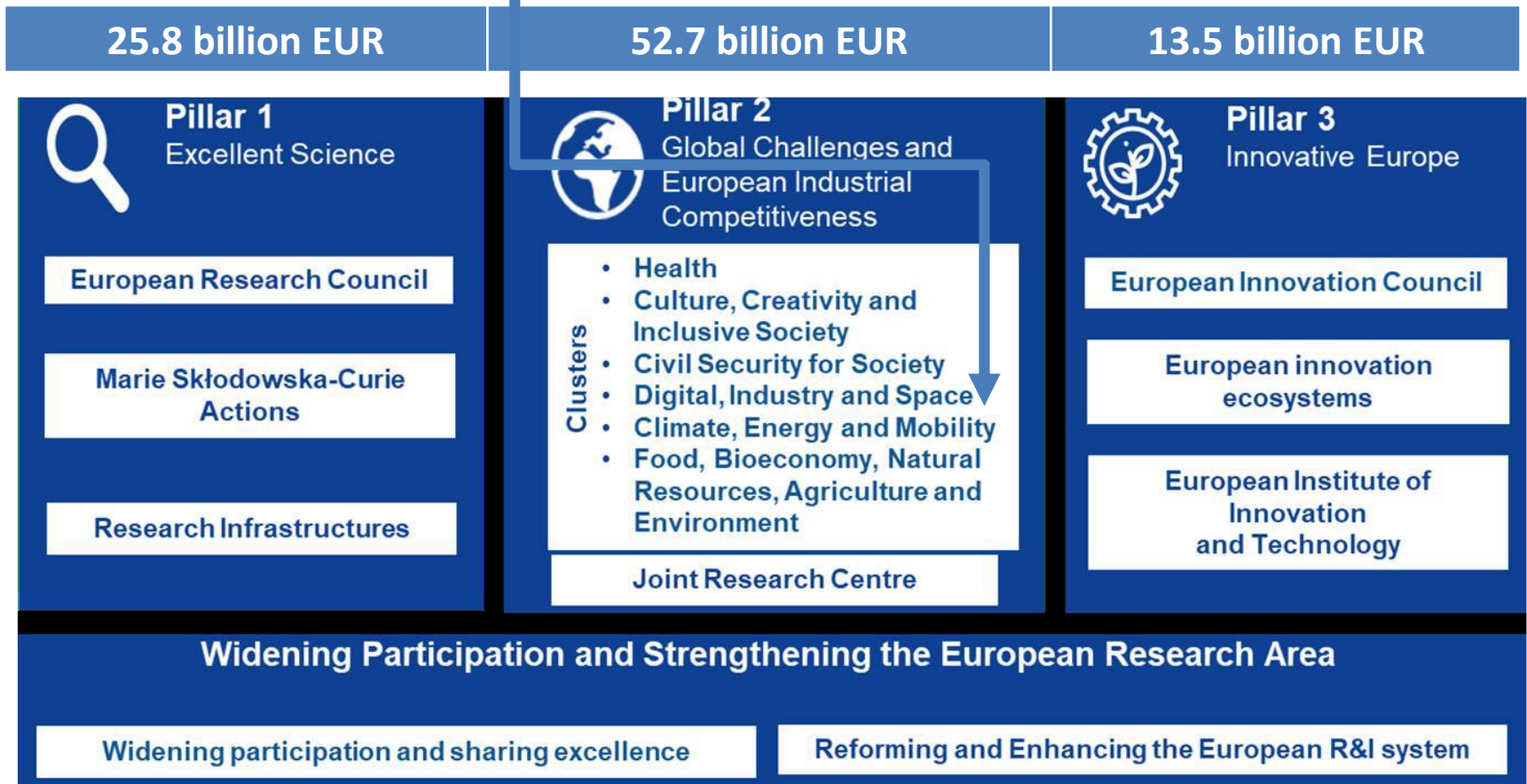


**Horizon
Europe**

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)

MISSION
Climate-neutral and Smart Cities

Horizon Europe



Cluster – Climate, Energy and Mobility

- Develop sustainable infrastructure, services and systems for smart and sustainable communities and cities
 - City/district energy and mobility systems for deployment of low-carbon Positive Energy Districts and Energy Communities
 - Quality of life for citizens through demand based mobility
 - Nature-based solutions and circular material
 - Urban land use and integrated planning, including new governance and public sector innovation
- Develop flexible, zero GHG emissions and citizen-centred energy systems and grids
 - Technologies and tools for electricity networks to integrate renewables
 - Solutions for integration of energy systems and coupling of different energy vectors, networks and infrastructures
 - Integrated local energy systems, microgrids and modular solutions
 - Innovative grid services through demand response, storage and small-scale production from renewables

Cluster – Climate, Energy and Mobility

- Achieve a highly energy-efficient and decarbonised EU building stock
 - Cost-effective renovation for nZEBs
 - Digital tools for monitoring and optimising energy performance of buildings
 - Cost-effective integration of renewables
 - Socio-economic aspects of innovation
- Develop the future transport network and integrated traffic management
 - Architecture and concept of multi-modal network and traffic management (NTM) system
 - Integration of service chains with co-operative and connected vehicles
 - Data sharing issues; rules and regulations
 - Traffic optimisation
 - Technical and non-technical enablers of automated transport

Process



Topics TBC

Strategic orientations document gives proposals for first Strategic Plan

- Strategic Plan 2021-2024
 - Work Programme 2021-2022
 - Work Programme 2023-2024
- Strategic Plan 2025-2027 will set new directions

Beyond Horizon

European Structural and Investment Funds

- European Regional Development Fund (ERDF)
 - Direct aid for investment in SMEs to create and safeguard jobs
 - Productive investments for strengthening RTD (TO1), competitiveness of SMEs (TO3), and **shift to a low-carbon economy (TO4)**
 - Investment in infrastructure for energy, environment, transport and ICT
 - Investment in social, health, research, innovation, business and educational infrastructure

- Cohesion Fund (CF):
 - Investment in the environment, including sustainable development and energy
 - Technical assistance

Operational Programmes defined for 2014-2020, but can be modified through the national Managing Authorities

50 to 85% funding rate

Thematic Objective 4

Supporting the **shift towards a low-carbon economy** in all sectors by:

- a) promoting the production and distribution of energy derived from renewable sources
- b) promoting energy efficiency and renewable energy use in enterprises
- c) supporting energy efficiency, smart energy management and renewable energy use in public infrastructure, including in public buildings, and in the housing sector
- d) developing and implementing smart distribution systems that operate at low and medium voltage levels
- e) promoting low-carbon strategies for all types of territories, in particular for urban areas, including the promotion of sustainable multimodal urban mobility and mitigation-relevant adaptation measures
- f) promoting research and innovation in, and adoption of, low-carbon technologies
- g) promoting the use of high-efficiency co-generation of heat and power based on useful heat demand

After 2020

- OPs for 2021-2027 to be drafted by Managing Authorities
- DRAFT POLICY OBJECTIVES:
 - a) A smarter Europe by promoting innovative and smart economic transformation;
 - b) A greener, low-carbon Europe by promoting clean and fair energy transition, green and blue investment, the circular economy, climate adaptation and risk prevention and management;
 - c) A more connected Europe by enhancing mobility and regional ICT connectivity;
 - d) A more social Europe implementing the European Pillar of Social Rights;
 - e) A Europe closer to citizens by fostering the sustainable and integrated development of urban, rural and coastal areas and local initiatives.

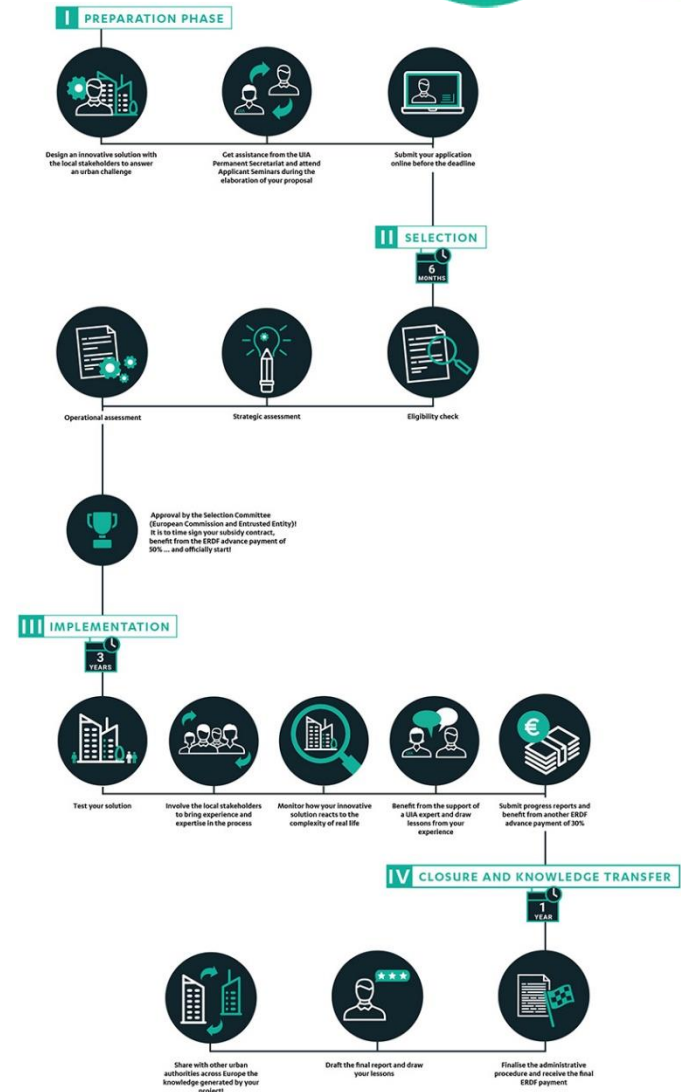
Time to speak with your Managing Authority to influence the next Operational Programmes

Urban Innovation Actions

- Funded via the ERDF to test new solutions to address urban challenges
 - For cities 50,000+
 - 80% of project costs, up to €5 million
 - Must be innovative, involve stakeholders, have realistic ambition, clear targets, be transferable, and bring clear benefits to citizens

- 5th (and final) call closure: **12 December 2019**

www.uia-initiative.eu



Closing words

- Many opportunities aligned with the concept of Smart Cities, both at EU level and regionally (with EU funds).
- Innovation projects such as “Smart Cities and Communities” are supposed to show the way, not pay for the actual transition of European cities.
- Don't forget other supporting tools:
 - European Investment Bank => investment
 - European Energy Efficiency Fund => technical assistance



500+

Innovation Advisers



2000+ Technical Experts



From **14** EU Member States



Founded in Brussels



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