

# **Smart Cities Innovation Partnership Chalenges and oportunities for EU cities**



International Conference Smart energy solutions for sustainable development 10 May 2017

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New energy technologies, innovation and clean coal



#### **Cities – Key for Europe**

- 78% of EU's population lives in cities.
- 85% of EU's GDP is generated there.
- Cities deliver on jobs, growth, investments, innovation and CO<sub>2</sub> reduction, to name a few ...

# EU Challenges





Modernise our economy by bringing down greenhouse gas emissions while creating jobs and growth

The EU as the world leader on renewable energy and placing energy efficiency first based on new technologies and industrial leadership

Ensure a socially fair transition where regions, cities and consumers play an active role GUIDING DIMENSIONS



# **Cities – Drivers of policy**

# 2020

# 2030

- 20% less greenhouse gases
- 20% renewable Energy
- 20% Energy savings

 40% less greenhouse gases

27%
renewable
Energy

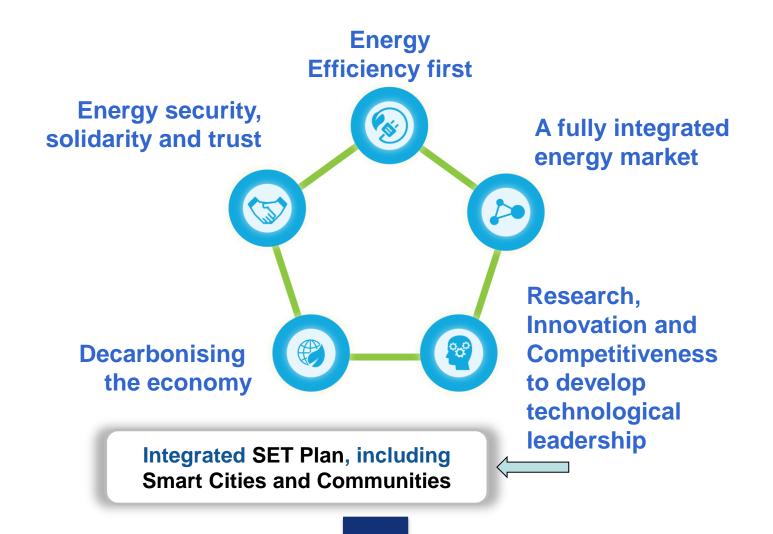
 27% Energy savings Energy Union

5 GUIDING DIMENSIONS

4

European Commission

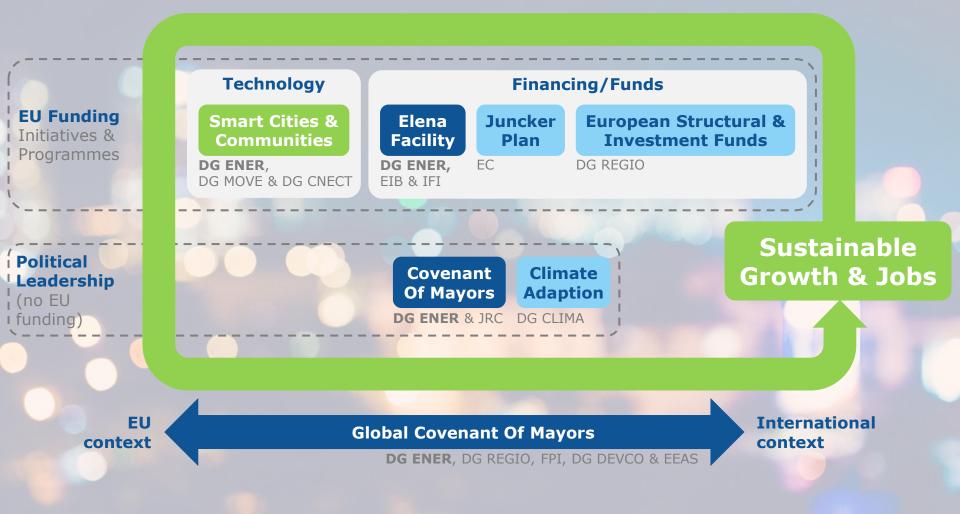
The Energy Union aims at secure, sustainable, competitive, affordable energy.





# **Synthesis Smart Cities EU Context**







#### **Stakeholders**

- Cities & Regions
- Industry
- Research
- Associations
- etc. ...

#### **EU Initiatives**

- CIVITAS
- Green Digital Charter
- CONCERTO

**Lighthouse Projects** 

Implementation & replication with EU funding

Smart Cities & Communities EU actions

8

Covenant of Mayors Political commitments without EU funding

SCC-EIP Market Place Commitments Implementation without EU funding

#### **Smart City Information System**





The Strategic Energy Technology (SET) Plan



## The Strategic Energy Technology (SET) Plan

Adopted in 2008

Set-up of European Industrial Initiatives for technologies

And Coordinates the research actions of EU and Member States

For technologies with market impact up to 2020 and beyond



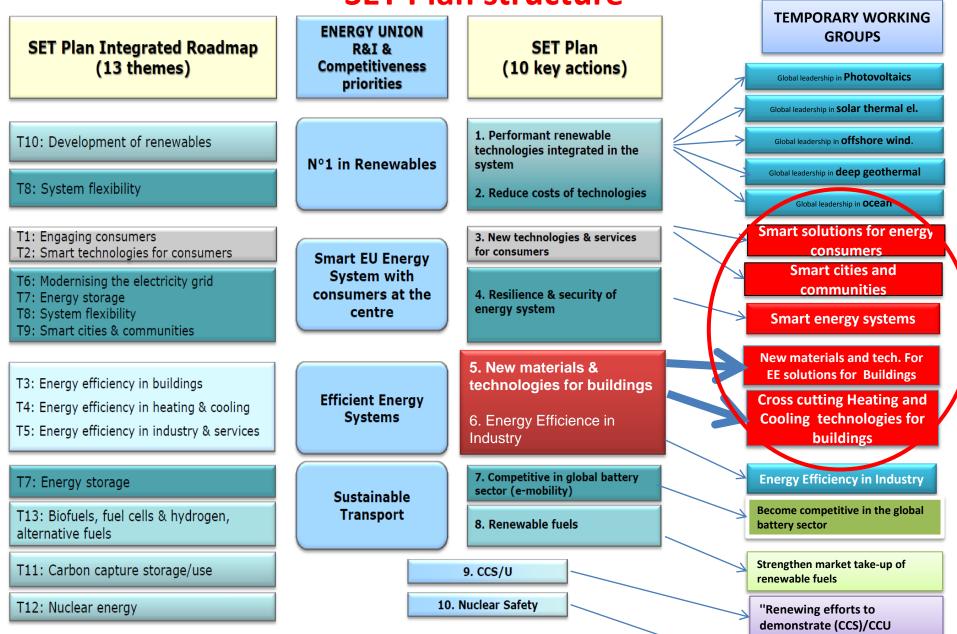


#### **Integrated SET Plan Communication (2015)**

**Four core priorities** (RES, consumers, energy efficiency, sustainable transport – in line with Energy Union) + CCS and nuclear

**10 Actions**: for each action a **Declaration of Intent** among countries (EU, EEA and Turkey) and with stakeholders

#### **SET Plan structure**



Maintaining a high level of safety of nuclear reactors



#### **SET plan Working Groups relevant to Smart Cities**

**Smart solutions for energy consumers** 

**Smart cities and communities** 

Smart energy systems

New materials and technologies for EE solutions for Buildings

Cross cutting Heating and Cooling technologies for buildings



# The European Innovation Partnership on Smart Cities & Communities (EIP-SCC)

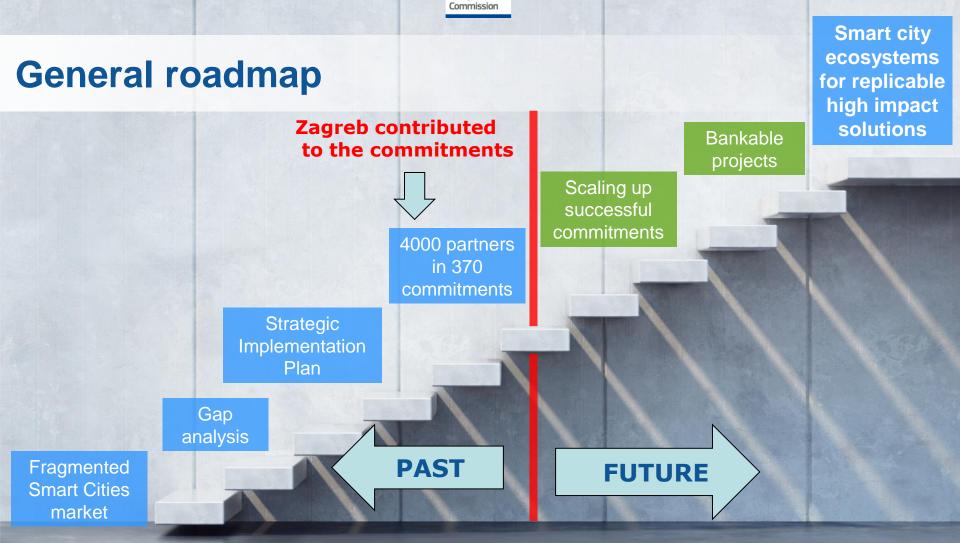


# Smart Cities and Communities (EIP-SCC)

establishes strategic partnerships between industry and European cities for the development of the urban systems of tomorrow









# The Marketplace" of the EIP-SCC

features physical meetings and a virtual collaboration via the Marketplace webpages. The Marketplace aims to **build a bankable project pipeline** that shall trigger smart city project investments of up to 1Billion Euro by 2020.





## **The 6 Action Clusters**

5100 partners,370 commitments,31 countries.

It is all about scale, acceleration, impact, common solutions, integrated approaches and collaboration.

# **Action clusters**



# Initiatives (1/2)

#### **Citizen focus**

- Start from Existing Habits and Identify the Needs: Co-
- Design & Co-Creation as Tools
  - Citizen-Centric Approach to Data
  - Citizen & Stakeholders Communication Platforms

# Policy and regulations/

- From Planning to Implementation
- Tools for Decision Making and Benchmarking
- Six Nations Forum
- Governance for Cultural Heritage (coming soon)

# Sustainable districts and built environment

- Small giants
- Positive energy blocks

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# **Action clusters**



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Initiatives (2/2)

# Business models, finance & procurement

Innovative business model use cases

#### Integrated infrastructures and processes (including Open Data)

- Humble lampposts
- Urban platforms

#### Sustainable urban mobility

- Electromobility
- New mobility services

• Further scale-up of the initiatives

**Outlook 2017** 

- New interactive and collaborative tools for the Market Place's web site
- Next General Assembly end of 2017

European Commission

€

#

COMMERCE

..........



## in fall 2017 possible re-Launch of the High Level Group of the EIP-SCC

a mix of very active smart city mayors, CEO, Finance, etc smart city relevant personalities whose members act as EIP-SCC ambassadors and advisors





## Why being involved?



- Capacity building
- Partnering for EU or other projects
- Bundling of demand enables easier access to all funding sources
- Gaining visibility for your city, project, association, company, etc.



#### How to join?

- Create a public profile at https://eu-smartcities.eu/user/register.
- Join an existing commitment or an initiative.
- Join an Action Cluster to provide your specific expertise on a certain issue.



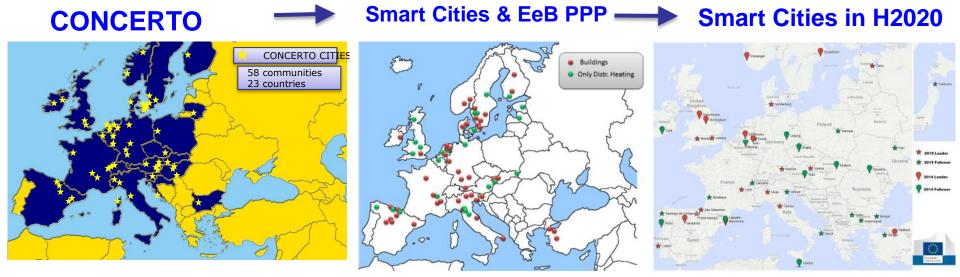
€ 5.9 billion For ENERGY

€80 billion In total HORIZON 2020

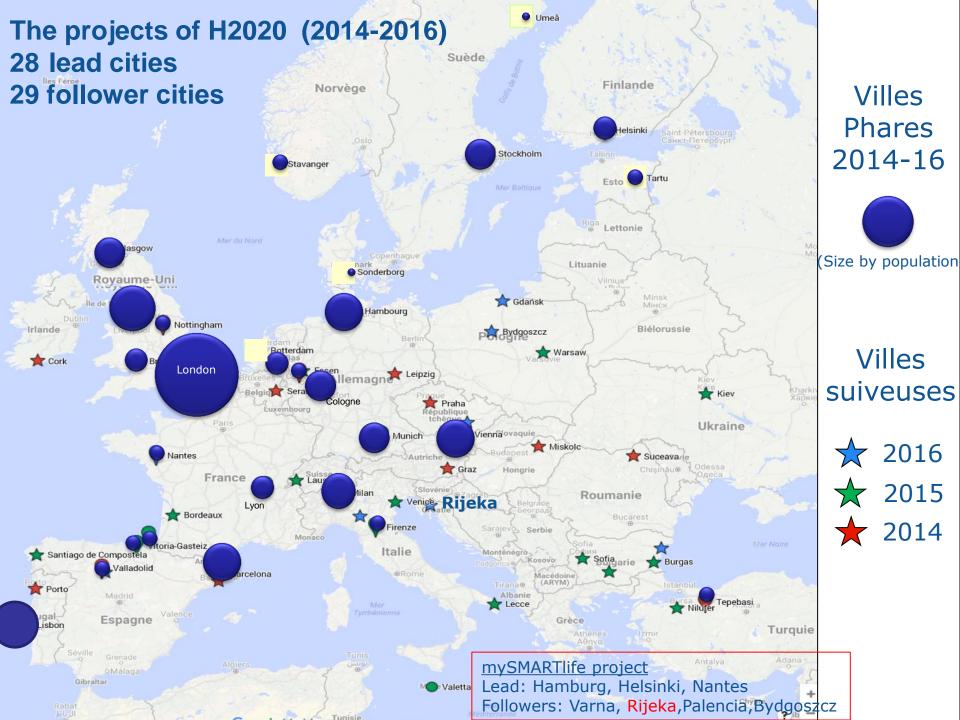
THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION



#### **EVOLUTION OF SMART CITIES & Communities CONCEPT**



	CONCERTO (2005-2009)	EeB PPP (2010-2013)	Smart Cities and Communities (2014 - )
Support	175,5 M€	216 M€	190 M€
Projects/sites	19/58	21/63	9/28
M€/year	35,1 M€/y	54 M€/y	72 M€/y





#### Next relevant events (1/6)

#### **EUSEW2017 – Clean Energy for All Europeans**



#### 19 June 2017 to 25 June 2017 Brussels, Belgium http://www.eusew.eu/



#### Next relevant events (2/6)

## 15<sup>th</sup> CIVITAS FORUM Conference 2017



#### 27-29 September 2017 Torres Vedras, Portugal

http://civitas.eu/content/save-date-civitas-forum-conference-2017



#### Next relevant events (3/6)

#### **Smart Cities Information system conference**



Budapest, Hungary 2&3 October 2017

http://www.smartcities-infosystem.eu/newsroom/news/save-date-scis-conference-empowering-smart-solutions-better-cities



#### Next relevant events (4/6)

#### **European Week of Regions and Cities**

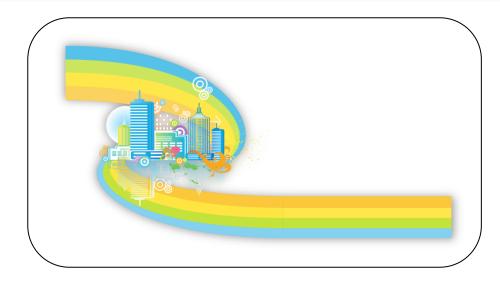


http://ec.europa.eu/regional\_policy/regions-and-cities/2017/index.cfm



#### Next relevant events (5/6)

#### General Assembly of the European Innovation Partnership on Smart Cities and Communities



Tuesday, 12th October, 2017 Brussels, Belgium



#### Next relevant events (6/6)

## 10th SET-Plan Conference 2017



30/11/2017 to 01/12/2017 Bratislava, Slovakia



# Mercil

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Join us at http://eu-smartcities.eu!