

Horizon Europe Missions

Climate Neutral and Smart Cities

#HorizonEU #EUmissions

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This presentation is based on the Commission Proposals for Horizon Europe and the draft legal texts on Horizon Europe agreed between the European Parliament and the Council in March/April 2019. It does not represent the official view of the European Commission.



Horizon Europe – Investing to shape our future

Lessons Learned

from Horizon 2020 Interim Evaluation



Support breakthrough innovation



Create more impact through mission-orientation and citizens' involvement



Strengthen international cooperation



Reinforce openness



Rationalise the funding landscape



Encourage participation



Key Novelties

in Horizon Europe

European Innovation Council

R&I Missions

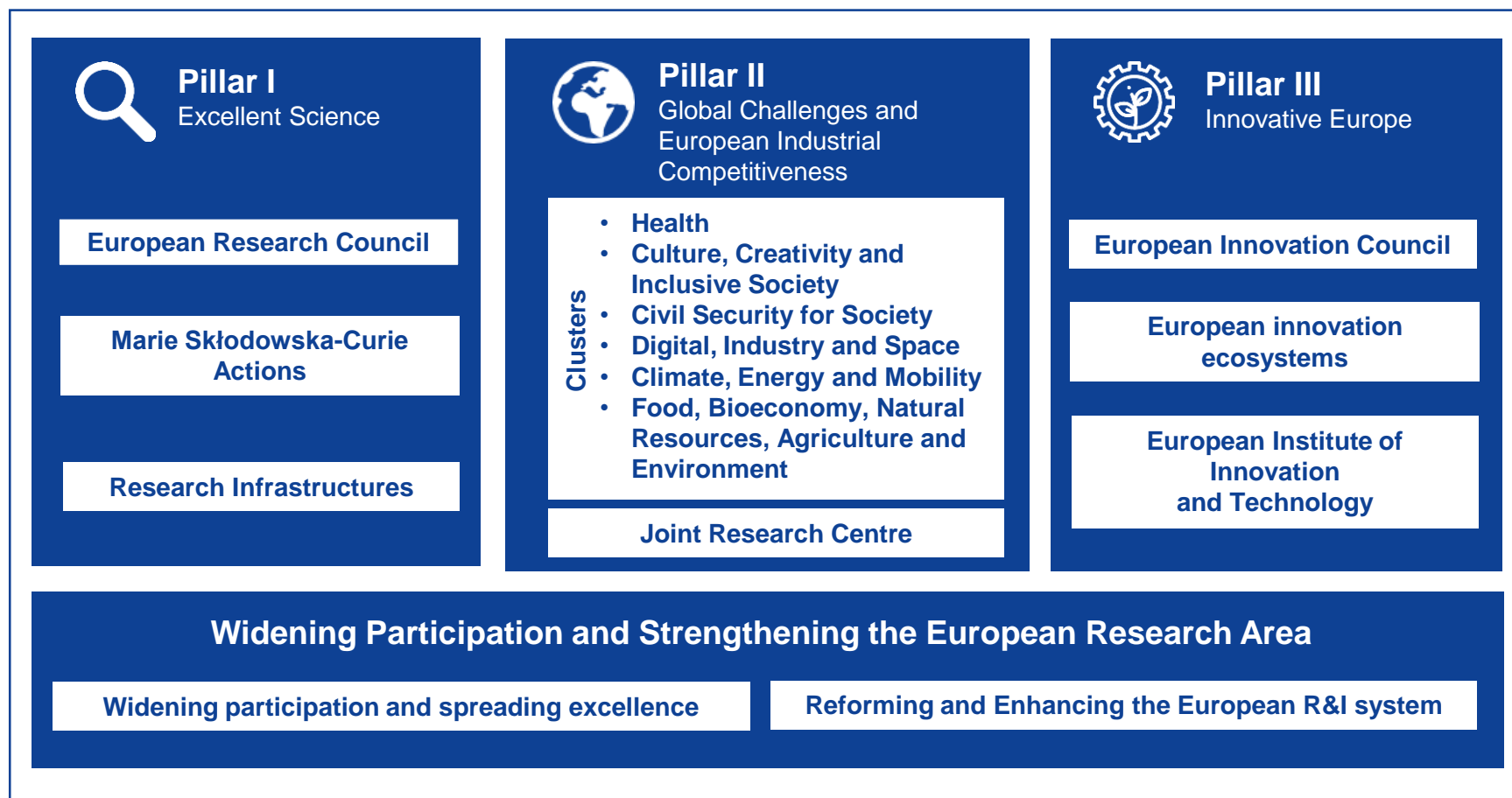
Extended association possibilities

Open science policy

New approach to Partnerships

Spreading Excellence

Horizon Europe Structure



Missions shall be programmed within the **Pillar II**, 'Global Challenges and European Industrial Competitiveness', but may also benefit from actions carried out within other parts of the Programme as well as complementary actions carried out under other Union funding programmes.

Missions

R&I Missions

- Be **bold and inspirational**, with wide societal relevance;
- Indicate a **clear direction**: targeted, measurable and time-bound;
- **Engage citizens** in co-designing, co-creating, co-implementing and co-assessing missions



**Adaptation to climate
change, including societal
transformation**



Cancer

**5 mission
areas**



**Healthy
oceans,
seas, coastal
and inland
waters**



**Climate-neutral
and smart cities**



**Soil health
and food**

Climate Neutral and Smart Cities – Definition and issues at stake



Climate Neutral and Smart Cities Definitions

- **Cities in the EU:**

- 800 cities of more than 50,000 inhabitants
- 150 cities of more than 250,000 inhabitants
- 2 metropolitan areas above 10 Million



- **Climate Neutral cities:** A city with no carbon emissions from direct sources or with some (close to zero) emissions that are compensated through carbon removal activities.
- **Smart cities:** A smart city is a place where traditional networks and services are made more efficient with the use of digital and telecommunication technologies for the benefit of its inhabitants and business.

Climate Neutral and Smart Cities – Mission Board

Mission Board

- Top-level independent experts (max 15 per mission area)
- Sectoral, gender and geographical balance
- Mix of high level profiles from research and academia, industry, innovation and business, policy, public sector, citizens associations, public engagement and science education, international agencies, civil society organisations, foundations, finance and communication

Mission Board for Climate Neutral and Smart Cities



**Hanna
GRONKIEWICZ-WALTZ**



**Allan
LARSSON**



**Katrine Krogh
ANDERSEN**



**Anna Lisa
BONI**



**Paulo
FERRAO**



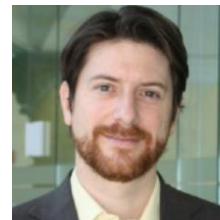
**Emmanuel
FOREST**



**Romana
JORDAN**



**Barbara
LENZ**



**Julio
LUMBRERAS**



**Chrysses
NICOLAIDES**



**Joakim
REITER**



**Martin
RUSS**



**Anne
SULLING**



**Maria
VASSILAKOU**

Climate Neutral and Smart Cities – State of Play



Climate Neutral and Smart Cities

State of play

- Five Board meetings in 2019 - discussions focused on mission scoping
- Mission Board report finalised in December 2019

Climate Neutral and Smart Cities – Report – December 2019



Climate Neutral and Smart Cities

Mission working title

100 Climate Neutral Cities by 2030 by and for citizens

- Establish a mission that will support and promote 100 European cities in their systemic transformation towards climate-neutrality by 2030;
- Direct impact on climate and associated benefits on citizens' wellbeing (air quality, healthier lifestyle...) and job creation.



Climate Neutral and Smart Cities

« By and for citizens »

Citizens are:

- Political actors in the city governance structure

As well as

- Users, producers, consumers and owners

»» Citizens and civil society have a primary role in driving systemic transition towards climate neutrality of cities



Climate Neutral and Smart Cities Mission objectives

- Promote climate neutrality by 2030;
- Offer cities financial means to achieve the mission goals through Horizon Europe and other EU instruments;
- Collaborate with European businesses in order to contribute to innovation and improve their global competitiveness.



Climate Neutral and Smart Cities

Climate City Contract

Will the Climate City Contract be a binding document to be signed by the local government, the Commission and the respective national or regional authorities?



Climate Neutral and Smart Cities

Climate City Contract

New forms of governance:

- Propose a systemic transformation: on-the-ground coordination with stakeholders to jointly agree upon a vision, targets and measures and finding synergies to share and reduce their climate impact;
- The involvement of citizens is pivotal for the success of the mission;



Climate Neutral and Smart Cities

Climate City Contract

A new economic model for climate action:

- Combine financing from different European, national and local resources, across the whole “value chain” from R&I to planning, investment and implementation;
- Propose that all relevant EU funding programmes should be designed with a “window” to allocate resources to the mission for climate neutral cities.



Climate Neutral and Smart Cities

City definition

A city can refer to a:

- City district, neighbourhood or zone of special interest of a city administered or governed by a type of “district council”;
- City represented by a government unit (e.g. municipality);
- Conglomeration or a functional area consisting of many neighbouring cities or government units, represented by the respective government units;

The 100 cities will be encouraged to include in their Climate City Contracts partner cities with significant structural challenges, which will be supported in achieving climate neutrality.



Climate Neutral and Smart Cities Monitoring

- Mitigating and offsetting all GHG (in CO₂-eq) within a city by 2030, is the key target of the mission;
- Other anthropogenic impact to the climate, environment, energy transition, resilient cities and smart cities will be part of a monitoring and reporting framework;
- Biennial reporting, using possibly the “deep decarbonisation pathways” approach;
- Help move from production-based (scope 1 and 2) to consumption-based carbon accounting (inclusion of Scope 3 emissions in the measurement).

Climate Neutral and Smart Cities – Next steps



Climate Neutral and Smart Cities

Next steps

- Consultations with stakeholders and citizens engagement activities will be launched in first half of 2020
- Consolidation of the Mission concept and its implementation by Mid 2020
- Identification of R&D activities to be implemented in the first Work Programme (2021-2022) of Horizon Europe

Timeline

Steps towards Horizon Europe Strategic Plan & Missions in the Work Programme



The European Green Deal

Objectives

- Achieving Climate neutrality: Comprehensive plan to increase the EU climate ambition for 2030 and 2050
- Clean, reliable and affordable energy
- Sustainable transport: strategy for sustainable and smart mobility by 2020, alternative fuels supply, more stringent air pollutant emission standards...
- Zero-pollution Europe: air pollution action plan...
- Financing the transition: facilitate the identification of a robust pipeline of projects

Mobilising research and fostering innovation

- 35% of Horizon Europe will fund new solutions for implementing the Green Deal
- 4 Green Deal Missions will help deliver large scale changes
- Partnerships with industry and Member States will support R&I on strategic sectors such as transport, energy...
- EIC dedicate funding to achieve breakthrough Green Deal innovation

Conventional approaches will not be sufficient



Thank you!

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<http://ec.europa.eu/horizon-europe>