



# HORIZON EUROPE

## THE EU RESEARCH & INNOVATION PROGRAMME

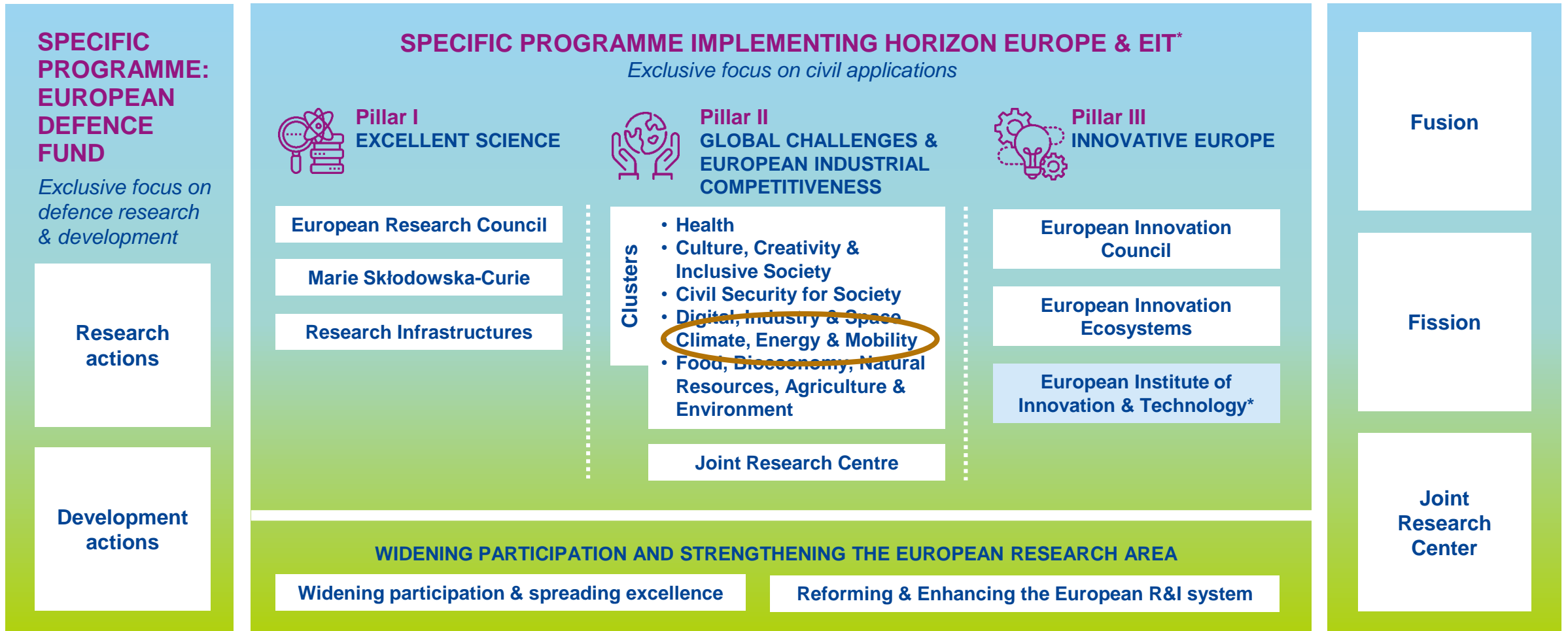
2021 – 2027

**PIERO DE BONIS**

**Matchmaking Heat Pumps and Stakeholders  
no. 2: Research, Innovation and Projects  
18 November 2021**

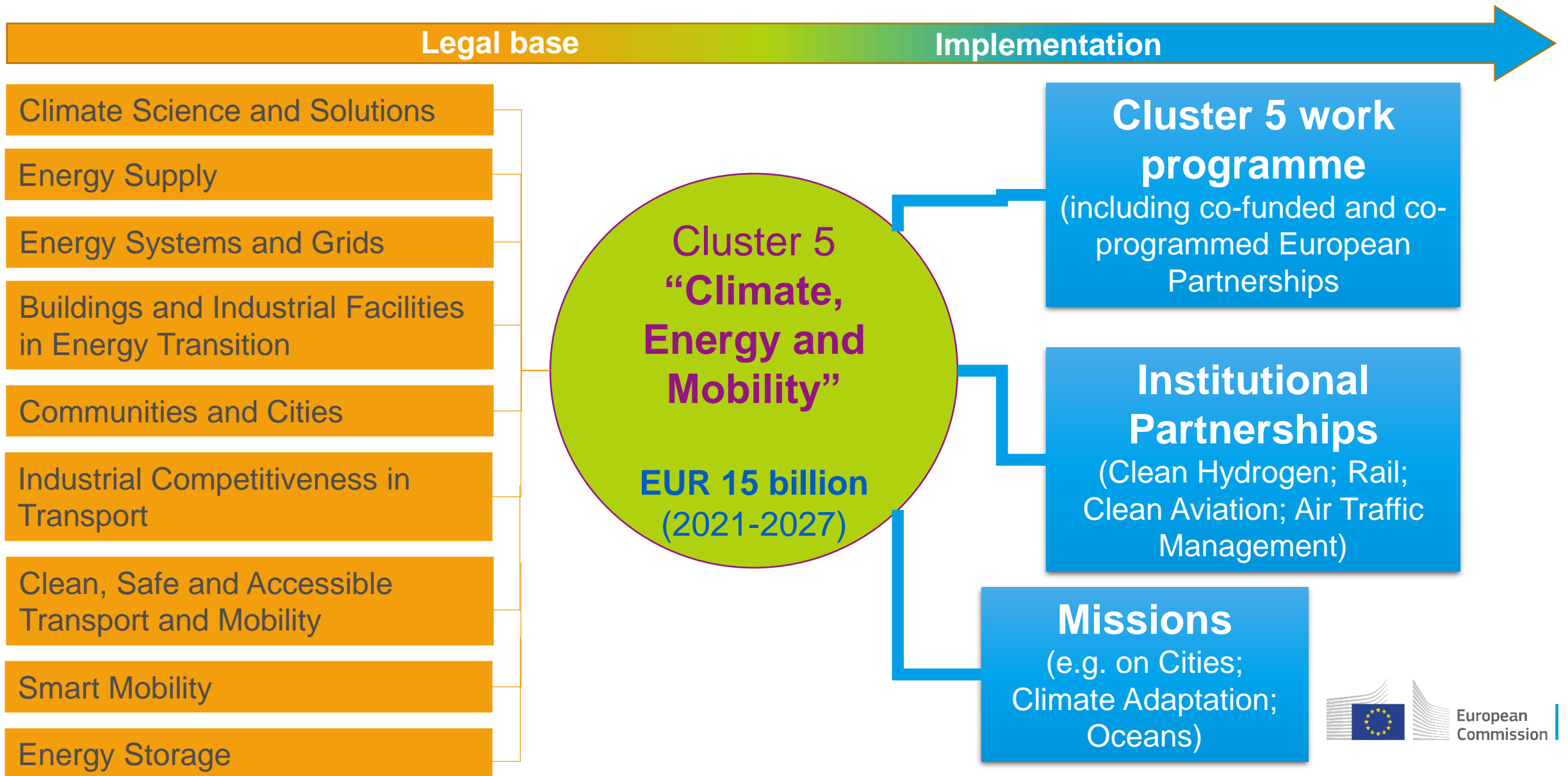
# HORIZON EUROPE

# EURATOM



\* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

# Cluster 5 - overview



# Cluster 5 Partnerships

## Institutional Partnerships

- Transforming Europe's rail system
- Integrated Air Traffic Management
- Clean Aviation
- Clean Hydrogen

## Co-funded Partnerships

- Driving urban transitions to a sustainable future (DUT)
- Clean Energy Transition

## Co-programmed Partnerships

- Built4People | People-centric sustainable built environment
- Towards zero-emission road transport (2ZERO)
- Batteries: Towards a competitive European industrial battery value chain for stationary applications and e-mobility
- Zero-emission waterborne transport
- Connected, Cooperative and Automated Mobility (CCAM)

# Destination - Efficient, sustainable and inclusive energy use

## Buildings

- **Technological and socio-economic breakthroughs** for achieving climate neutrality and the transition to zero pollution of the building stock by 2050, based on **inclusive and people-centric R&I**
- Implementing co-programmed Partnership “People-centric, Sustainable Built Environment” (Built4People)

## Industry

- Increased energy efficiency in industry and **reducing industry’s Greenhouse Gas (GHG) and air pollutant emissions** through recovery, upgrade and/or conversion of industrial excess (waste) heat and through electrification of heat generation



# Examples of relevant topics

HORIZON-CL5-2021-D4-02-02: Cost-effective, sustainable multi-functional and/or prefabricated holistic renovation packages, integrating RES and including re-used and recycled materials (Built4People) **[deadline 25 January 2022]**

HORIZON-CL5-2022-D4-01-02: Renewable-intensive, energy positive homes **[deadline 6 September 2022]**

HORIZON-CL5-2022-D4-01-04: Development and pilot demonstration of heat upgrade technologies with supply temperature in the range 150-250°C **[deadline 6 September 2022]**

HORIZON-CL5-2022-D4-02-03: Sustainable and resource-efficient solutions for an open, accessible, inclusive, resilient and low-emission cultural heritage: prevention, monitoring, management, maintenance, and renovation (Built4People) **[deadline 24 January 2023]**



## HOW WILL THE APPLICATION PROCESS WORK?

- October 2021: Publication of comprehensive info kit for cities to help cities prepare for the Call
- November 2021: Publication of Call for Expression of Interest addressed to cities (questionnaire)
- January 2022: Call closes
- By March 2022: Selection of participating cities
- As of mid 2022: Mission Platform works with first cities to develop Climate City Contracts

## WHAT ARE THE BENEFITS OF BEING AMONG THE 100 CITIES?

- Tailor-made advice and support by the Mission Platform
- Help with access to funding and financing via a Mission label
- R&I demonstrators (NB: Horizon Europe open calls will not be restricted to Mission cities.)
- Support through a national coordination network
- High visibility – raised political profile, attractiveness for investment and skilled workers

BUT this requires full commitment in Climate City Contract.



# Follow us and keep up to date via:

## HorizonEU

*Commissioner Mariya Gabriel:* @GabrielMariya

*Director-General Jean-Eric Paquet:* @JEPaquetEU

**DG Research and Innovation:** @EUScienceInnov @EU\_H2020

<https://www.facebook.com/EUScienceInnov/>

**Horizon Magazine:** @HorizonMagEU

**Horizon Europe website:** <http://ec.europa.eu/horizon-europe>

**European Innovation Council:** <http://ec.europa.eu/research/eic>

**European Research Council:** <https://erc.europa.eu/>





# Thank you!

## # HorizonEU

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



© European Union 2021

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

Image credits: © ivector #235536634, #249868181, #251163013, #266009682, #273480523, #362422833, #241215668, #244690530, #245719946, #251163053, #252508849, 2020. Source: Stock.Adobe.com. Icons © Flaticon – all rights reserved.