



# HORIZON EUROPE

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## THE EU RESEARCH & INNOVATION PROGRAMME

2021 – 2027

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Cluster 5, Destination 4, Built4People  
European Partnership

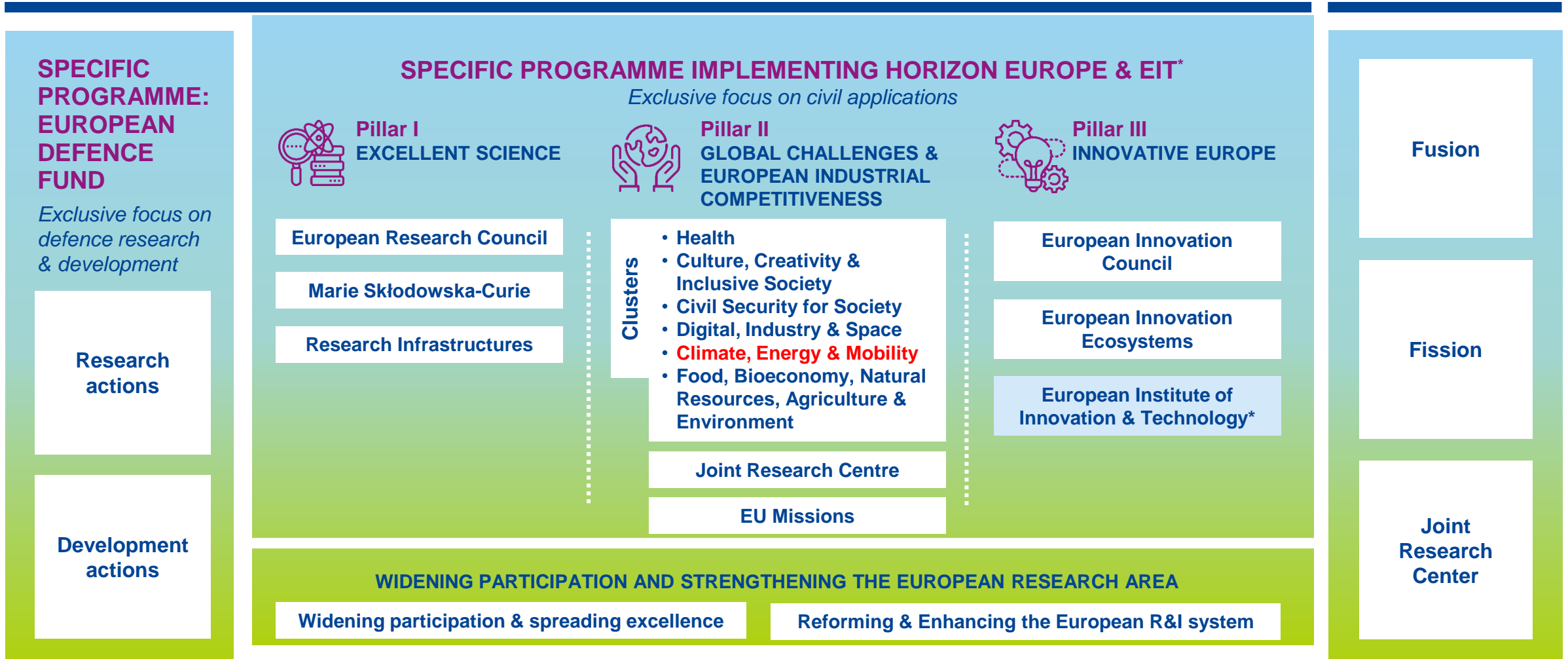
P. De Bonis  
European Commission

Event: Strengthening Industrial Relations in the  
Construction Sector in Central and East  
European Countries - EU funds use at national  
level & best practices - 25 May 2023

Research and  
Innovation

# HORIZON EUROPE

# EURATOM



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

# European Partnerships

Partners other than the Union:  
ECTP, WorldGBC Europe

## INSTITUTIONAL

### Transforming Europe's rail system

(0.6 bn€ EU contribution;  
0.6 bn€ private contributions)

### Integrated Air Traffic Management

(0.6 bn€ EU contribution; 0.5 bn€ private contributions;  
0.5 bn€ from Eurocontrol)

### Clean Aviation

(1.7 bn€ EU contribution;  
2.4 bn€ private contributions)

### Clean Hydrogen

(1.0 bn€ EU contribution;  
1.0 bn€ private contributions)

Total: 3.9 bn€ EU contribution

## CO-FUNDED

### CET | Clean Energy Transition

(210 M€ EU contribution)

### DUT | Driving urban transitions to a sustainable future

(130 M€ EU contribution)

Total: 0.34 bn€ EU contribution

## CO-PROGRAMMED

### Built4People | People-centric sustainable built environment

(380 M€ EU contribution; 400 M€ private contributions)

### ZEWT | Zero-emission waterborne transport

(530M€ EU contribution; 3300 M€ private contributions)

### CCAM | Connected, Cooperative and Automated Mobility

(500 M€ EU contribution; 500 M€ private contributions)

### 2ZERO | Towards zero-emission road transport

(615 M€ EU contribution; 615 M€ private contributions)

### Batt4EU | Towards a competitive European industrial battery value chain

(925 M€ EU contribution; 925 M€ private contributions)

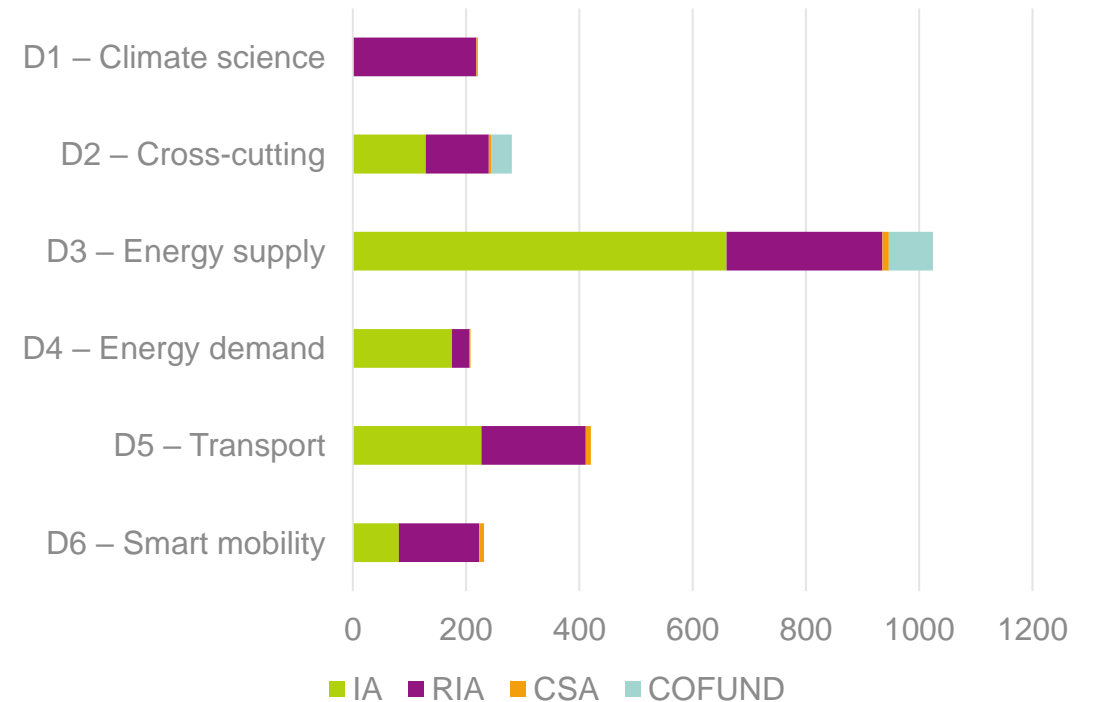
Total: 2.95 bn€ EU contribution

Total: 7.2 bn€

# Budget distribution in calls for proposals for 2023-2024

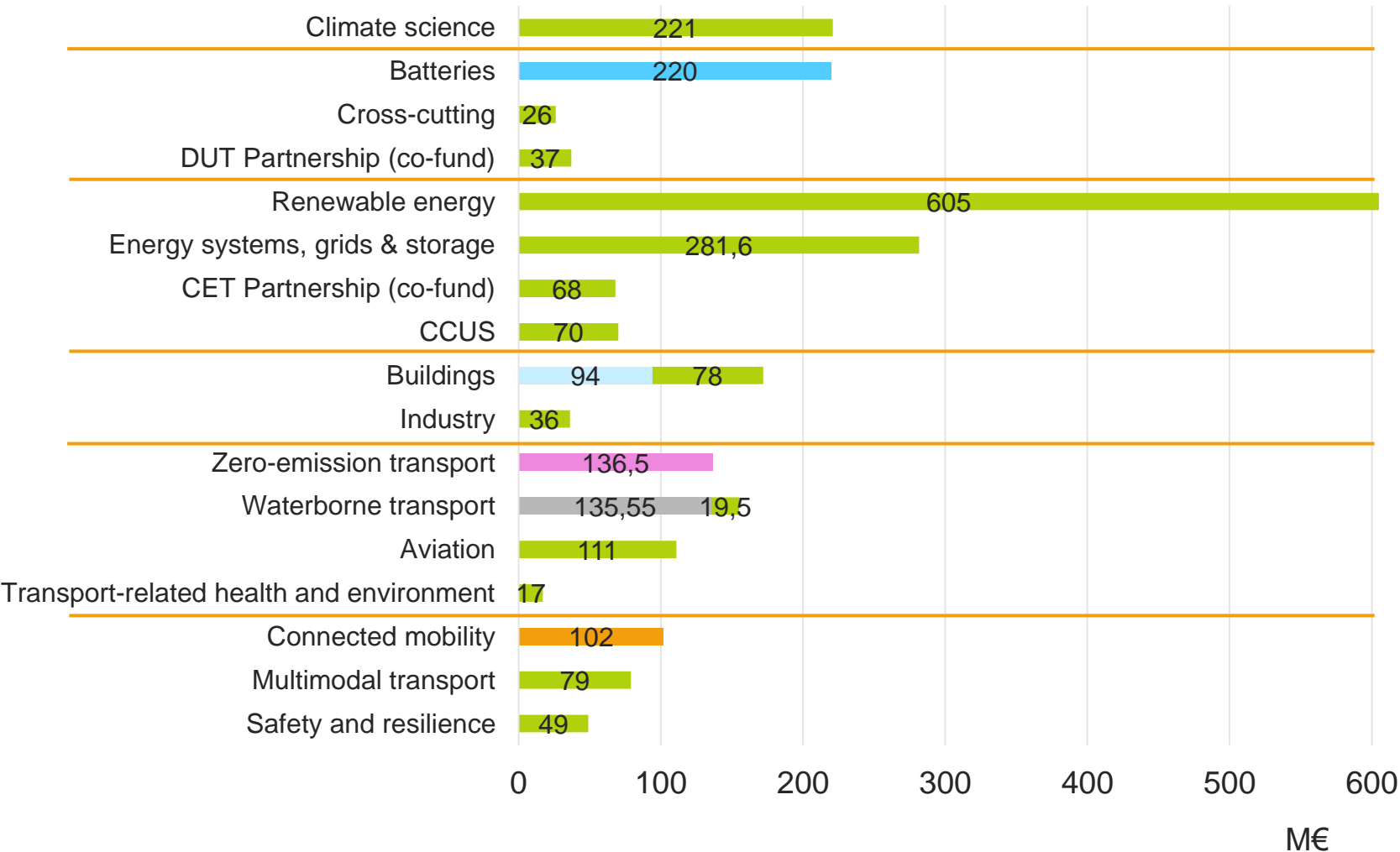
	Budget (M€)	Budget share	Number of topics	Topics share
<b>D1 – Climate science</b>	220,5	9%	20	11%
<b>D2 – Cross-cutting</b>	281,0	12%	19	10%
<b>D3 – Energy supply</b>	1.023,6	43%	69	37%
<b>D4 – Energy demand</b>	208,0	9%	19	10%
<b>D5 – Transport</b>	419,1	18%	37	20%
<b>D6 – Smart mobility</b>	231,0	10%	25	13%
<b>TOTAL</b>	<b>2.383,2</b>	<b>100%</b>	<b>189</b>	<b>100%</b>

EU contribution per Destination and type of action (2023-2024, in M€)



# Budget distribution

EU contribution per thematic area (2023-2024, in M€)



## European Partnerships:

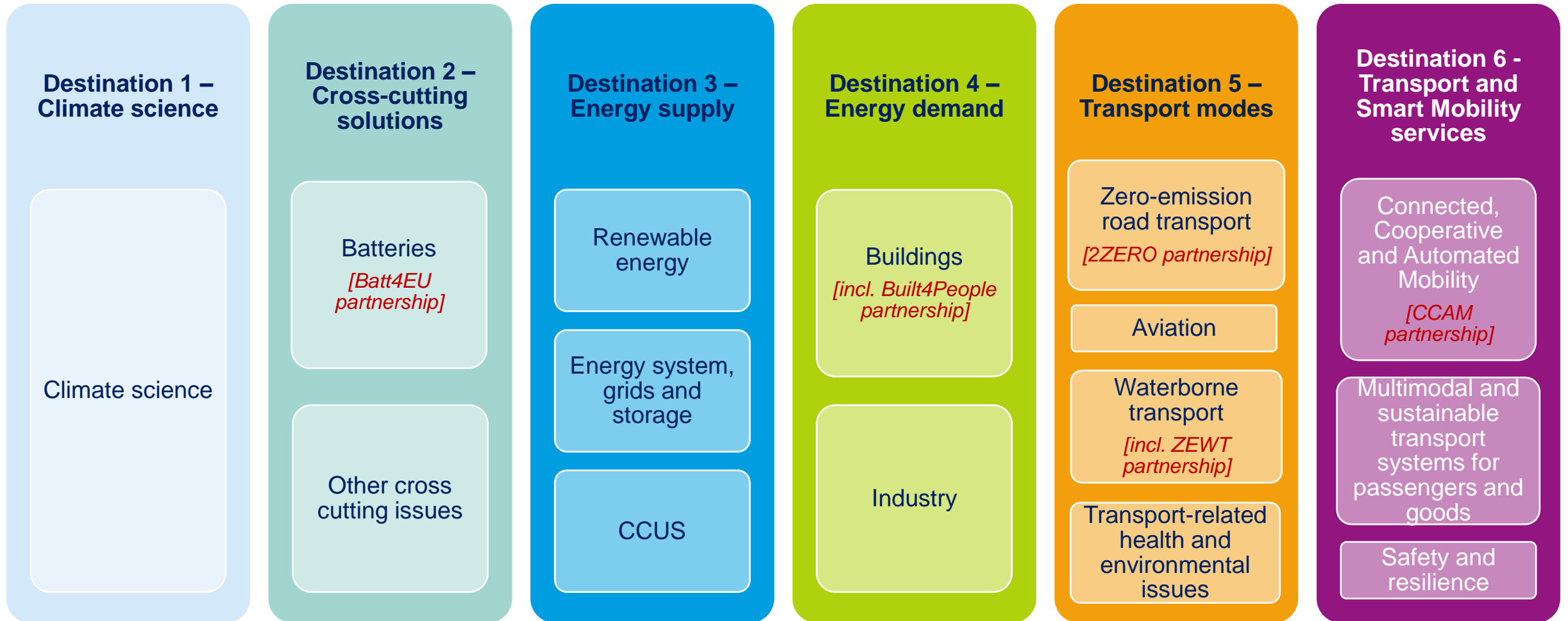
- 60 out of 189 topics (32% of all cluster 5 topics)
- 688 M€ out of 2 383 M€ (29% of cluster 5 budget)

■ standard topics

## Co-programmed Partnerships:

- CCAM
- 2ZERO
- Batt4EU
- Built4People
- ZEWT

# Cluster 5 work programme – Overview



# Destination 4 – Highly energy-efficient and climate neutral EU building stock

## Objectives

- Support **EU ambition** on energy **efficiency** and **independence**, with a stronger link between **innovation in technology** and **practices, policy drivers and instruments**
- 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**

## Issues covered in topics 2023-2024

- Energy performance assessment and monitoring, industrialisation of deep renovation, integrated technology solutions, prefabricated renovation packages, demand response, renewable intensive homes, smart buildings, design, materials, sustainability of life-cycle

## Implementation

- 2 calls in 2023 – 10 topics (total budget: 102 M€)
- 2 calls in 2024 – 7 topics (total budget: 70 M€)



Many topics contribute to the co-programmed partnership **Built4People**



# Built4People topics (deadline 5 September 2023)

- HORIZON-CL5-2023-D4-02-01: Innovative uses of lifecycle data for the management of buildings and buildings portfolios (IA)
- HORIZON-CL5-2023-D4-02-02: Solutions for the identification of vulnerable buildings and people-centric built environment, and for improving their resilience in disruptive events and altered conditions in a changing climate (IA)
- HORIZON-CL5-2023-D4-02-03: Demonstrate built-environment decarbonisation pathways through bottom-up technological, social and policy innovation for adaptive integrated sustainable renovation solutions (IA)
- HORIZON-CL5-2023-D4-02-04: Fast-tracking and promoting built environment construction and renovation innovation with local value chains (CSA)
- HORIZON-CL5-2023-D4-02-05: Supporting the creation of an accessible and inclusive built environment (IA)



# Built4People topics (deadline 21 January 2025)

- HORIZON-CL5-2024-D4-02-01: Industrialisation of sustainable and circular deep renovation workflows (IA)
- HORIZON-CL5-2024-D4-02-02: Robotics and other automated solutions for construction, renovation and maintenance in a sustainable built environment (RIA)
- HORIZON-CL5-2024-D4-02-03: BIM-based processes and digital twins for facilitating and optimising circular energy renovation (IA)
- HORIZON-CL5-2024-D4-02-04: Design for adaptability, re-use and deconstruction of buildings, in line with the principles of circular economy (RIA)
- HORIZON-CL5-2024-D4-02-05: Digital solutions to foster participative design, planning and management of buildings, neighbourhoods and urban districts (IA)

# Built4People ongoing projects

- **AEGIR**: Digital and physical incremental renovation packages enhancing environmental and energetic behaviour and use of resources
  - **EBENTO**: Energy efficiency building enhancement through performance guarantee tools
  - **FORTESIE**: CBDC powered smart performance contracts for efficient, sustainable, inclusive, energy use
  - **REHOUSE**: Renovation packages for holistic improvement of EU's buildings efficiency, maximizing RES generation and cost-effectiveness
  - **RE-SKIN**: Renewable and environmental-sustainable kit sustainable kit for building integration
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- **NEBULA**: New European Bauhaus unlocked through Built4People-endorsed local actions



# Thank you!

## #HorizonEU

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



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