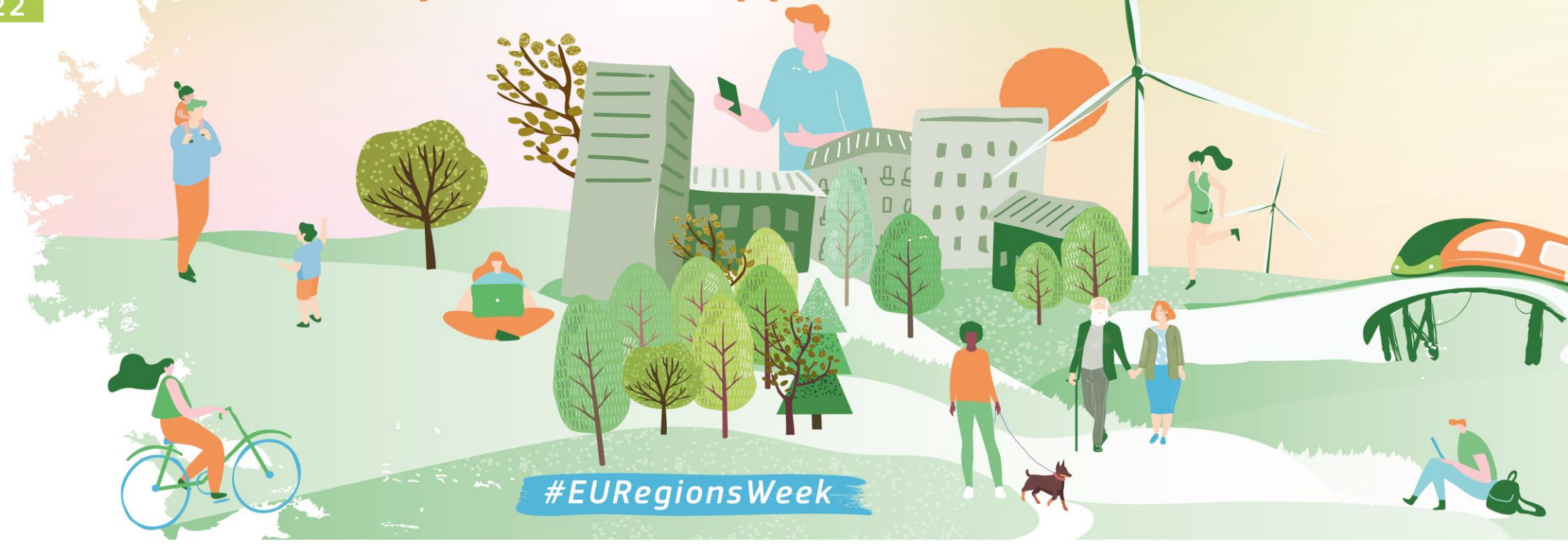


New Challenges for  
Europe's Cohesion

# Greening local sport facilities: EU's policies & support



Serena Pontoglio, European Commission, DG ENER





EUROPEAN WEEK OF  
REGIONS & CITIES

2003 - 2022

New Challenges for  
Europe's Cohesion

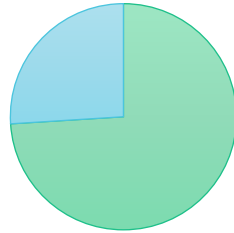
# 1. The policy framework: EU policies to make EU buildings greener and more energy efficient : the Energy Performance of Buildings Directive

#EURegionsWeek

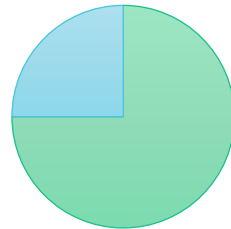


# EU building stock

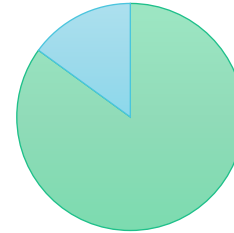
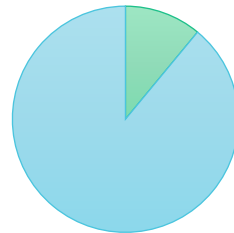
24 billion m2 floor area,  
around **28 % non-residential**



... **75 %** has **poor energy performance** ...



Only **11 %** of existing buildings undergo  
some level of **renovation** each year



**85 %** of existing EU dwellings were  
**built before 2000**, of which ...

... more than **85 %** will still be in  
place in **2050**

# European Green Deal

- ✓ Increased climate ambition with **buildings and their renovation** as a key focus:
  - Big energy consumers -40% of energy consumed
  - Very slow rate of renovation, exposing citizens and businesses to spikes in energy prices and to volatility
  - At the same time, many citizens struggle to keep their homes warm
  - Building renovation creates jobs, reduces green-house gas emission and improves quality of lives



# A zero emission building stock by 2050

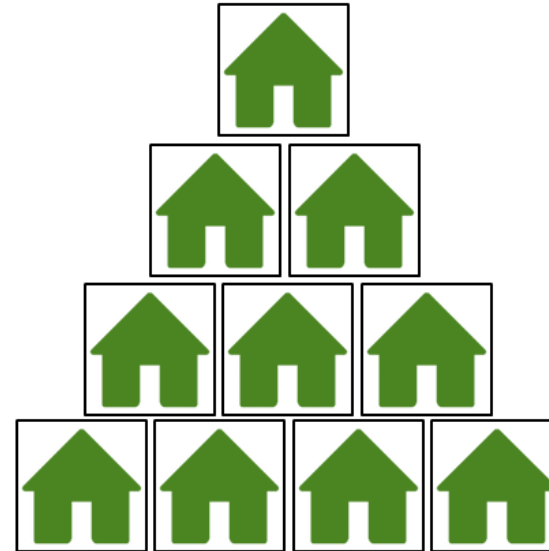
EU avg 2019:  
22% of renewables H&C  
34% renewable electricity\*



G class building



Powered by renewables  
zero direct CO2 emissions



ZEB building



\*according to Eurostat SHARES

# The Renovation Wave strategy and action plan



**Decarbonisation** of heating and cooling



**Tackling energy poverty** and **worst-performing buildings**



**Renovation of public buildings and social infrastructure**  
such as schools, hospitals and administrative buildings

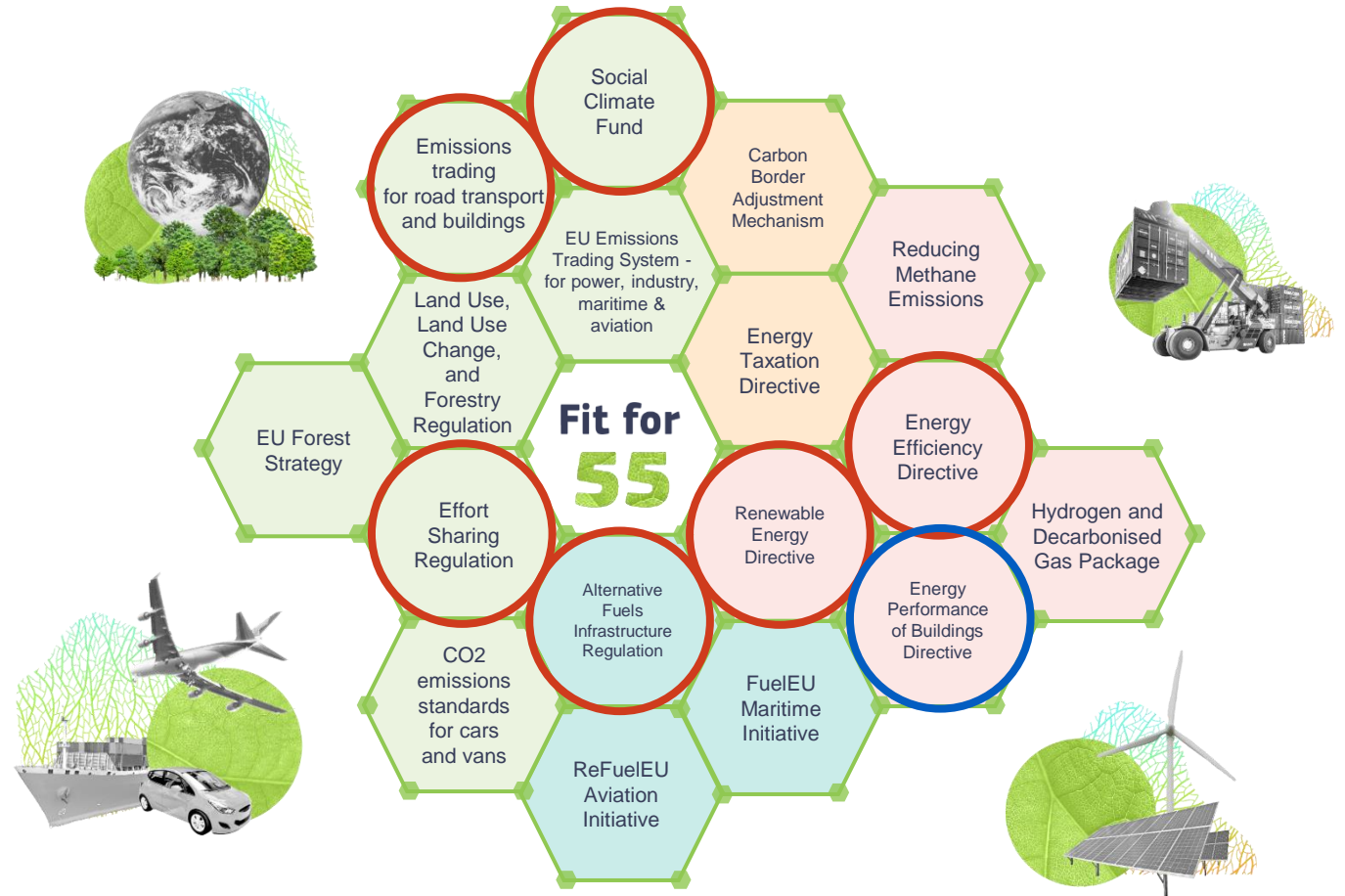
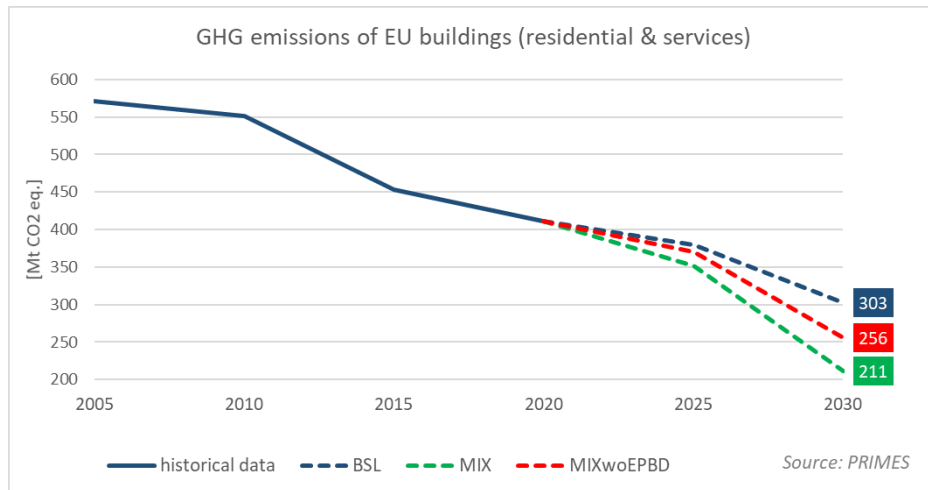


**A set of policy measures, funding tools and technical assistance instruments** to break down of existing barriers throughout the renovation chain – from the conception of a project to its funding and completion

# “Fit for 55”: buildings’ key role

## MAKING OUR HOMES AND BUILDINGS FIT FOR A GREENER FUTURE

- decrease emissions
- save energy
- tackle energy poverty
- improve quality of life
- generate jobs and growth



# The revision of the Energy Performance of Buildings Directive

- **Climate Target Plan:** by 2030 the EU should reduce buildings' GHG emissions by 60%, their final energy consumption by 14% and energy consumption for heating and cooling by 18%.
- **Renovation Wave** aims at doubling renovations by 2030 and foster deep renovations



## Twofold objective:

→ Contribute to **reducing buildings' GHG emissions and final energy consumption by 2030**

→ Provide a long-term vision for buildings and ensure an adequate contribution to achieving **climate neutrality in 2050**



# Focus areas of the EPBD revision

## ***Renovation***

- Minimum Energy Performance Standards
- Energy Performance Certificates
- National Building Renovation Plans and renovation passports for individual buildings

## ***Decarbonisation***

- Introduction of zero-emission buildings as new standard for new buildings
- Consideration of whole life cycle carbon
- Phasing out incentives for fossil fuels and new legal basis for national bans

## ***Financing***

- Sustainable finance and energy poverty alleviation
- Deep renovation standard
- Renovation passports for individual buildings

## ***Modernisation & system integration***

- Infrastructure for sustainable mobility
- Smart Readiness Indicator
- Indoor air quality: ventilation and other technical building systems



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## **2. The EU funding landscape: opportunities to finance the greening of buildings, also in the sport sector**

**#EURegionsWeek**



# Finance for energy efficiency

## EU-funding landscape

- **Direct investments:** Recovery and Resilience Facility (EEF), Cohesion Policy Funds (ERDF/CF), Just Transition Fund (JTF), ETS Revenues, Modernisation Fund.
- **Leverage private capitals, project development assistance and advisory:** InvestEU, [ELENA Facility](#), Technical Support Instrument (TSI).
- **Market uptake, policy enhancement activities, technological development, research and innovation:** [Horizon Europe](#), [Built4People Partnership](#), [LIFE Clean Energy Transition](#), Innovation Fund.

# Built4People Partnership

- Co-programmed partnership under Horizon Europe
- R&I Agenda for a People Centric & Sustainable Built Environment
- Challenges:
  - Improve energy efficiency in buildings and in the construction sector;
  - Decarbonisation: Deployment of RES at the Buildings/District level.
- Resource Efficient and circular economy: Foster circularity in construction. Use greener construction materials/more sustainable building techniques.
- Empower citizens and promote their engagement towards sustainability.



# Horizon Europe - Work Programme 2023-2024

- 4 Calls – 2 per year

17 topics – 10 topics of Built4People and 7 on Energy Efficiency

Total Funding around 170 million

Strong influence of REPowerEU as a political priority

- 1 flagship topic: *Innovative solutions for cost-effective decarbonisation of buildings through energy efficiency*



# LIFE CET – Call 2022 Funding topics

## Citizens in the clean energy transition

- Addressing Building related interventions in vulnerable districts (LIFE-2022-CET-ENERPOV)
- Developing support mechanisms for energy communities (LIFE-2022-CET-ENERCOM)

## Decarbonisation of buildings and H&C

- Towards a zero-emission building stock: deep renovation (LIFE-2022-CET-DEEPRENO)
- Energy performance & Smart Readiness of buildings (LIFE-2022-CET-BUILDPERFORM)
- Deployment and affordability of heat pumps (LIFE-2022-CET-HEATPUMPS)
- Low-grade renewable energy or waste heat in high temperature DH (LIFE-2022-CET-DH)

## Building skills and capacity of industry and the service sector

- BUILD UP Skills – Strategies and training interventions enabling a decarbonised building stock (LIFE-2022-CET-BUILDSKILLS)
- Supporting the clean energy transition of the business sector (LIFE-2022-CET-BUSINESS)



**Thank you**

# Main provisions on new buildings

## From Nearly zero energy to zero emission buildings

- Update based on benchmarks per climatic zones, to be applied by 2030 (2027 for public buildings)
- Stronger incentive to on-site renewables, efficient district heating and energy communities
- Zero-emission buildings become the level to be attained by a deep renovation as of 2030 and the vision for the building stock in 2050



**The life-cycle Global Warming Potential (GWP) of new buildings will have to be calculated as of 2030** in accordance with the Level(s) framework, informing on whole life-cycle carbon emissions (2027 for large buildings)

**Strengthened requirements for recharging of e-vehicles, and mandatory bicycle parking in new buildings**



# Main provisions on existing buildings

## Minimum Energy Performance Standards:

- Union-wide MEPS to phase out worst-performing buildings
  - Public and other non-residential buildings: at least EPC class F by 2027 & EPC class E by 2030
  - Residential buildings: at least EPC class F by 2030 & EPC class E by 2033
- MS to set up timelines for further improvement of their building stock in their building renovation plans
- Supporting framework with a focus on vulnerable households and monitoring of social impact

## National Building Renovation Plans (replacing the long-term renovation strategies)

- BRP to be integrated into the NECP process, except the first plan
- Common template with only national goals and key mandatory indicator, several elements opening to other dimensions beyond energy remain voluntary (accessibility, safety,..)

## Definition of „deep renovation“

**Strengthened requirements for recharging of e-vehicles** in case of major renovation

**Stronger provisions on the removal of obstacles and barriers to renovation** (right to renovate)

**Member States must not subsidise fossil-fuel boilers as of 2027.**

# Main provisions on information tools

## GHG become part of the metrics of the EPBD

### Energy Performance Certificates (EPC)

- by 2025 all energy performance certificates must be based on a harmonised scale of energy performance classes (from A to G, with A = ZEB and G = 15% worst buildings)
- Common template with energy and GHG indicators, while other indicators remain voluntary
- The validity of energy performance certificates of the lower D to G classes is reduced to five years
- Improved quality assurance

## The Smart Readiness Indicator (SRI) is required for large non-residential buildings as of 2026

**New provisions to ensure access to buildings data**, databases of EPCs and data interoperability

The methodology for calculating the energy performance of buildings is updated to clarify the possible use of metered energy and the cost-optimal methodology specifies how to take into account carbon prices

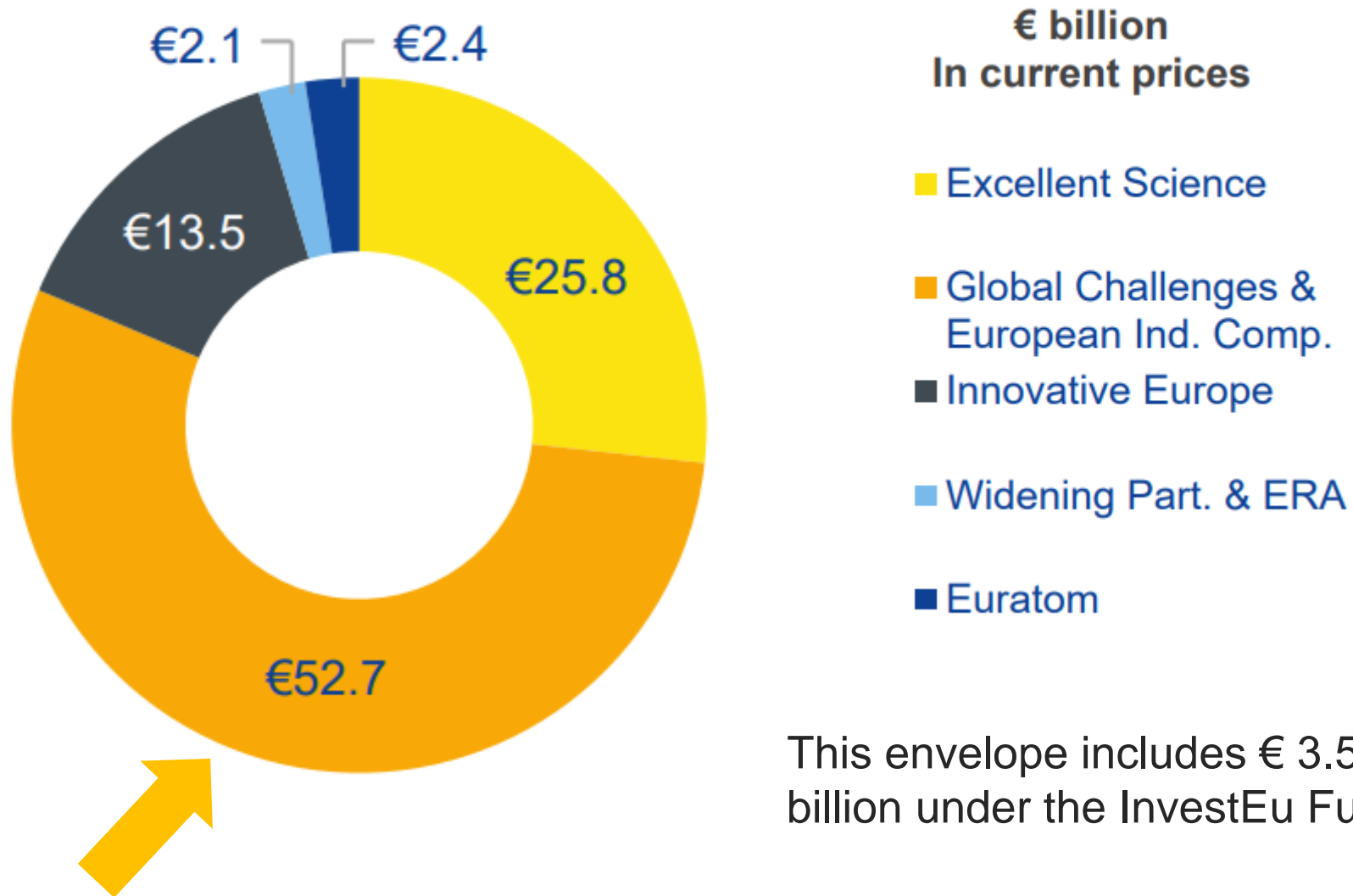


# Horizon Europe

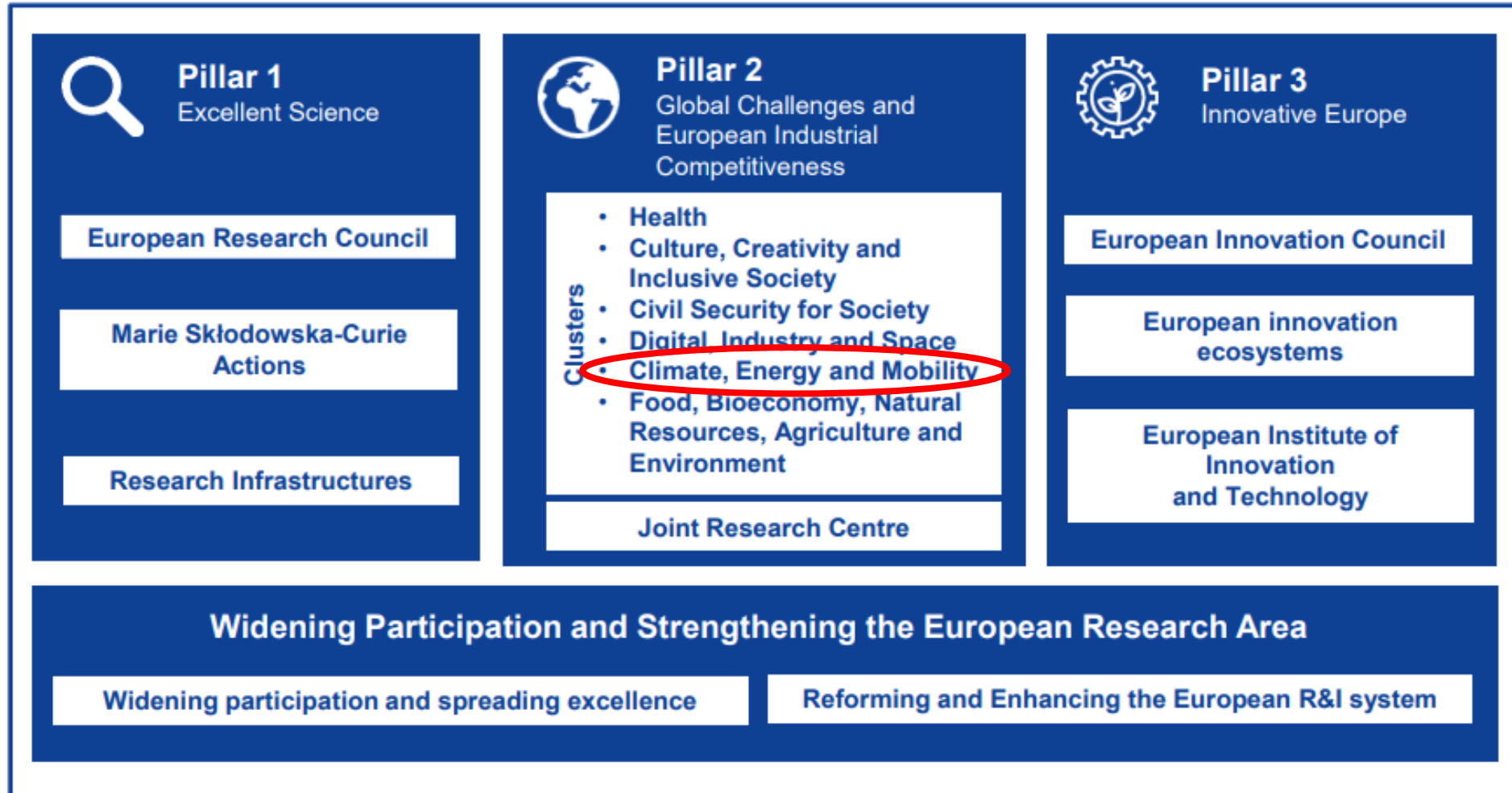
- **Key Funding Programme for R&I**
- **Period 2021-2027**
- **Main Priorities**
  - **Tackle Climate Change;**
  - **Help achieve UN's Sustainable Goals;**
  - **Boost Competitiveness and Growth in the EU.**
- **Financed by the Multi-Financial Framework**
  - **Total Financing for 2021-2027: almost €100 billion.**



# Horizon Europe – Budget 21-27



# Horizon Europe – Cluster 5 / Destination 4



# Horizon Europe Calls 2021

- **Two Calls**
  - 11 projects selected in total**
    - 6 should start in the coming months
    - 5 on grant agreements preparation
    - Total financing of almost 70 million
- **Covered matters in the projects**
  - **Assessment of Energy Performance**
  - **Industrialisation of renovation and pre-fabrication**
  - **Solutions for Building Stock Monitoring**
  - **Specific action for the Support of the B4P partnership**



# Horizon Europe Calls 2022

- **Two Calls**  
8 topics  
Total Funding of 122 million
- **First call open until September 6**
  - Resource efficient solutions for a low-emission cultural-heritage;
  - Digitalisation: smart-grid and smart-network ready buildings
  - Solutions for more sustainable materials



# LIFE Clean Energy Transition - Call 2022

- Deadline **16 November 2022**
- **EUR 98m** available for grants



- 18 policy-driven, **prescriptive** funding topics with **detailed guidance**
- Most topics: **Minimum of 3 (eligible) entities** from **3 different eligible countries** (average number of partners is higher)
- **95% co-funding rate** (no infrastructure cost, mostly labour)
- Apply electronically via the EC's [Funding & Tender opportunities portal](#)

