



# Renovation Wave

Greening our buildings

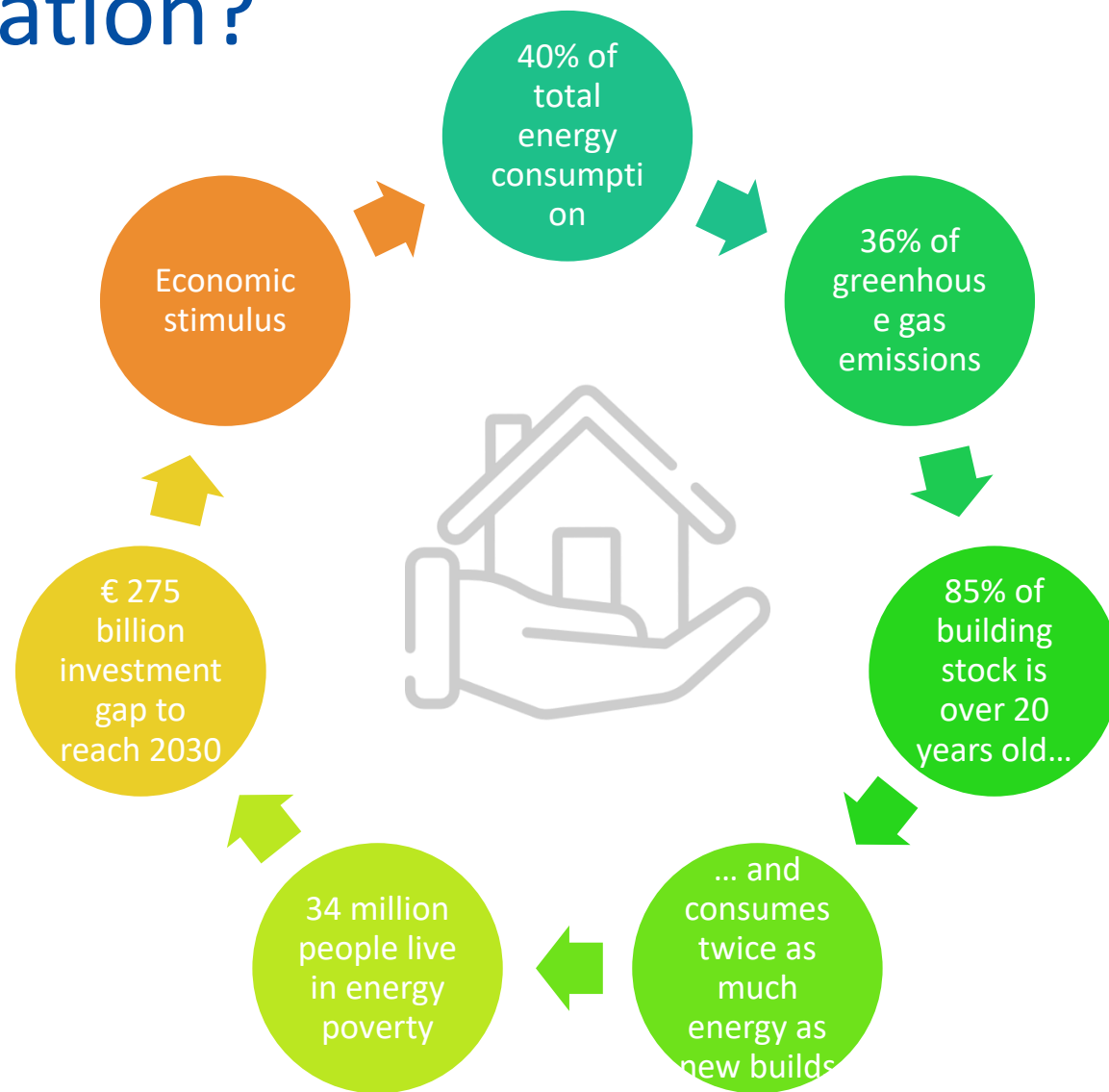
Creating jobs

Improving lives

Stefan Moser, Head of Unit, Energy Efficiency of Buildings and Products

REHVA Brussels Summit, 5 November 2020

# Why renovation?



# A transformative agenda



## Smart and healthy buildings for better lives

- Buildings producing energy, with recharging points for e-mobility and bike parking
- Smart buildings providing essential data for city planning and services
- Style, affordability and sustainability

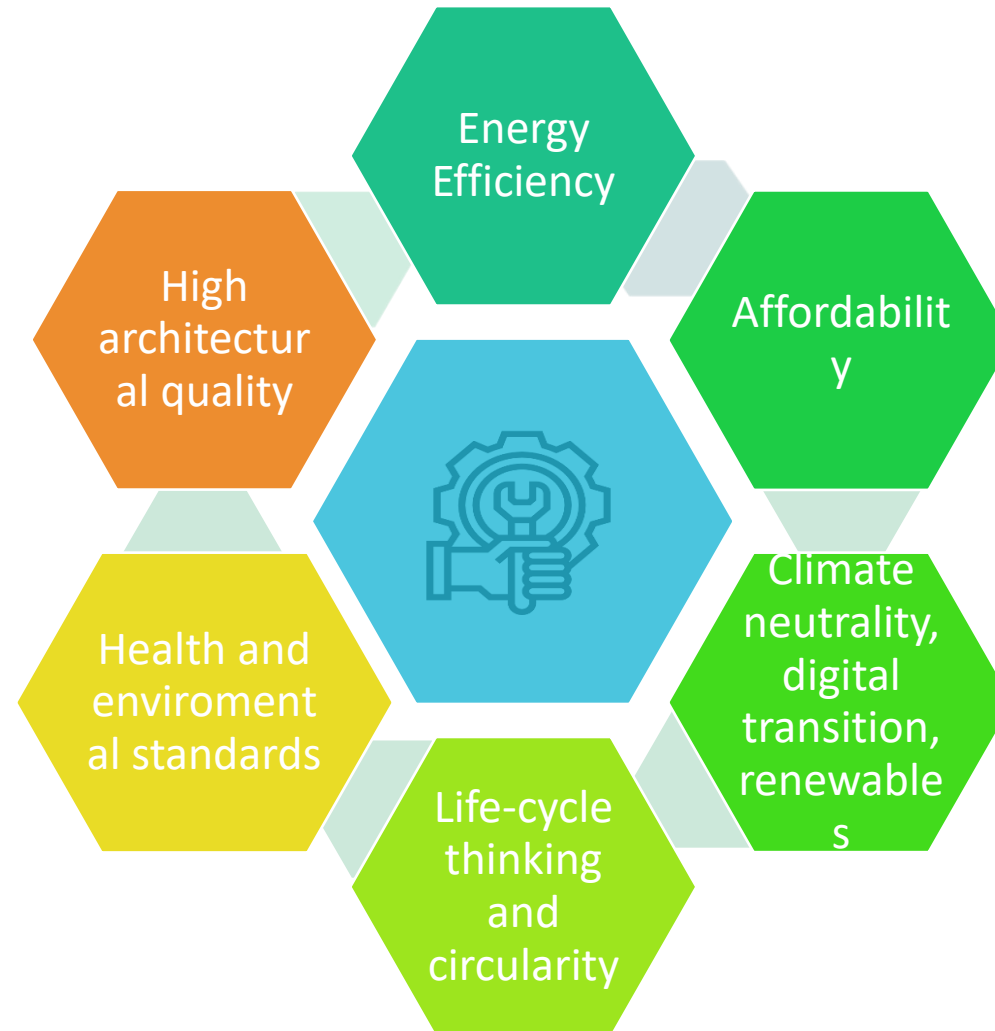
## Climate neutral buildings

- Reduced pressure for natural resources and greenfield construction
- Adaptable buildings resilient to extreme natural events

## Neighbourhood and communities

- Healthier, greener & more accessible buildings
- Interconnected neighbourhood districts
- Energy communities

# Key principles for an integrated approach



# Objectives

**Double the annual energy renovation rate by 2030 and increase renovation depth**

**Create**

**12-18** local jobs per million euro invested

**160,000** green jobs in construction

**-60%** greenhouse gas emissions

**-14%** energy consumption

**-18%** heating and cooling

**Reduce**

Renovation of **35 million** building units



# Where are we now?

## An established framework ...

- Clean Energy for All Europeans Package 2018 and 2019
- A solid basis for energy market integration, renewables deployment and energy efficiency promotion
- Existing regulatory framework and funding instruments to promote energy efficiency, building renovation and renewables deployment at building, neighbourhood and district level

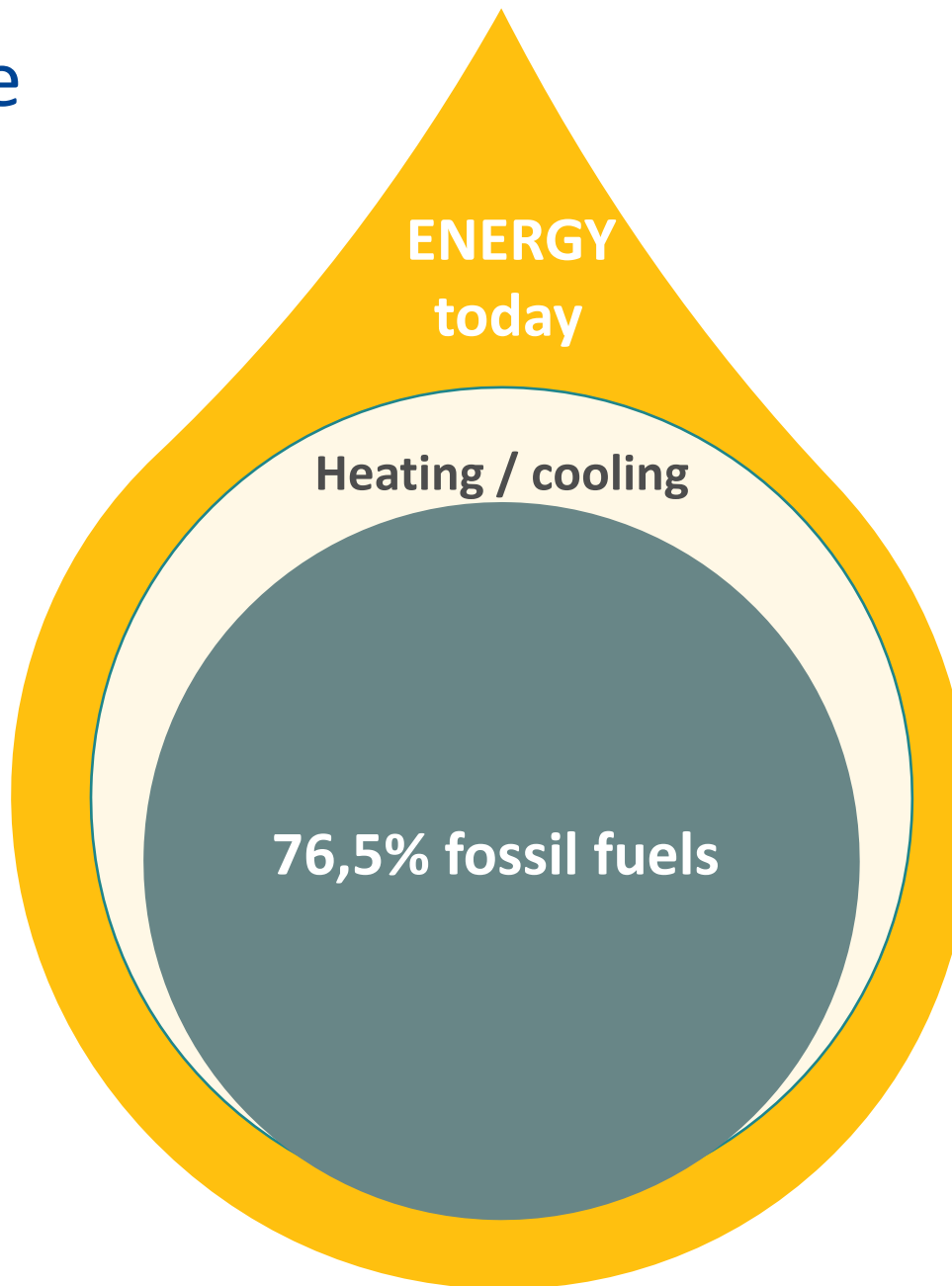
## ... impact to be scaled up

- Only 11% of existing building stock undergoes renovation each year
- Renovation works only rarely address energy performance of buildings
- Currently, annual weighted average of energy renovation is only 1%
- Renovation is held back by barriers throughout the value chain

# Decarbonisation challenge

## What is needed by 2030 (55% GHG)

- **Reduce GHG by 60%** (to 1990)
- Reduce buildings' FEC by **14%**
- Reduce energy consumption for heating and cooling by **18%**
- Reach **38-42% RE** in heating and cooling



# 7 lead intervention areas

Information, legal  
certainty and  
regulation

Accessible and  
well-targeted  
funding

Project and  
technical  
assistance

Integrated  
interventions for  
smart buildings

Construction  
sector for the  
sustainable future

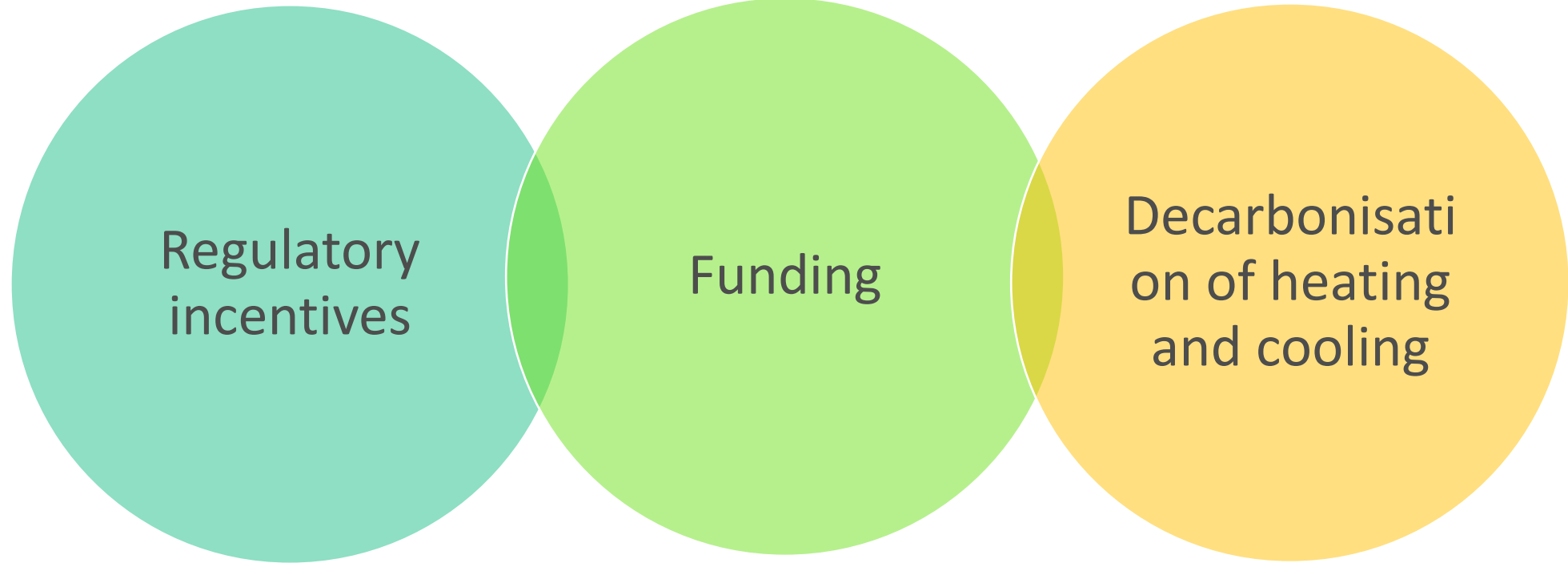
Addressing energy  
poverty and  
healthy housing

Decarbonisation  
of heating and  
cooling

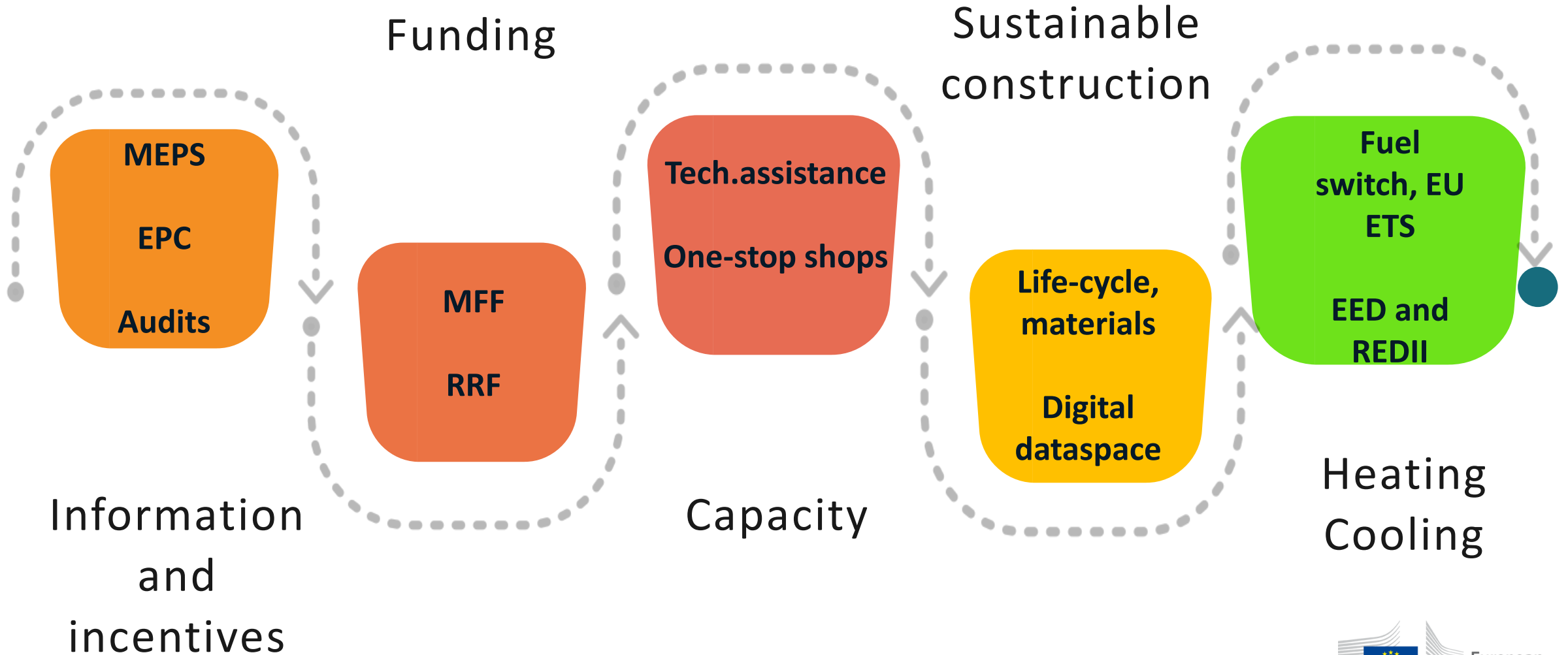




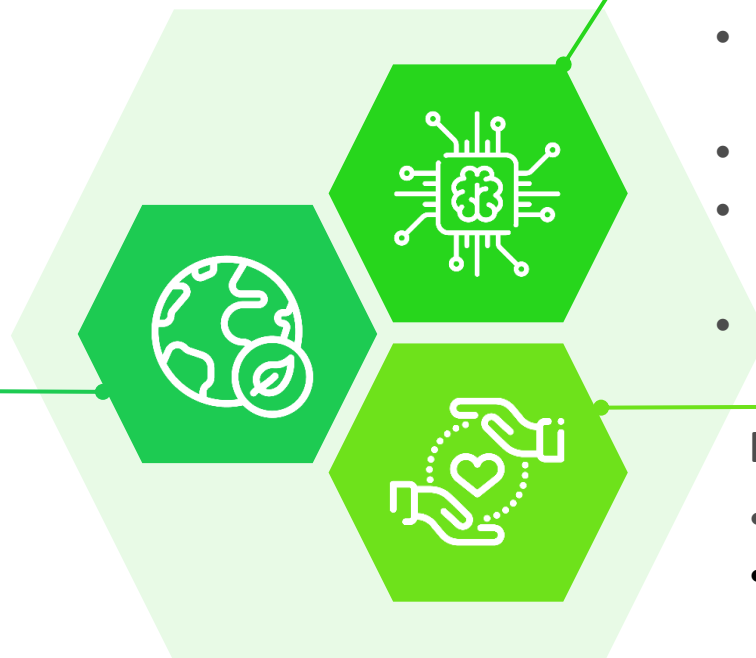
# Flagship measures



# Actions to remove barriers



# Focus areas



## Heating and cooling

- efficient and low-CO2 tech
- target for RE supply
- minimum threshold of RE

## Public buildings

- renovation requirements
- MEPS + milestones for 2030, 2040 and 2050
- guidance on EEF principle
- public procurement (life-cycle and climate resilience)
- RRF and MFF funds + TA

## Energy poverty

- a recommendation on energy poverty
- LTRS: developing effective strategies to combat energy poverty through renovation
- mandatory minimum energy performance standards
- One-stop-shops, standardised solutions (financing, technology)
- Affordable Housing Initiative

# EU budget to kick-off the Renovation Wave

## for Direct Investments

- Recovery and Resilient Facility
- Cohesion Policy Funds (ERDF, ESF, EU-REACT)
- Just Transition Mechanism - JTF

## To leverage private investments

- InvestEU
- Private Financing 4 Energy Efficiency
- European Energy Efficiency Fund

## for Research & Innovation

- Horizon Europe
- Built 4 people
- EGD Calls
- Smart Cities

## To address Market Barriers

- LIFE – Clean Energy Transition
- LIFE – Circular Economy & Quality of Life

## For Technical Assistance and Advisory

- ELENA Facility
- Technical Support Instrument
- Technical Support – Cohesion Policy

Thank you