



Renovation Wave

Greening our buildings

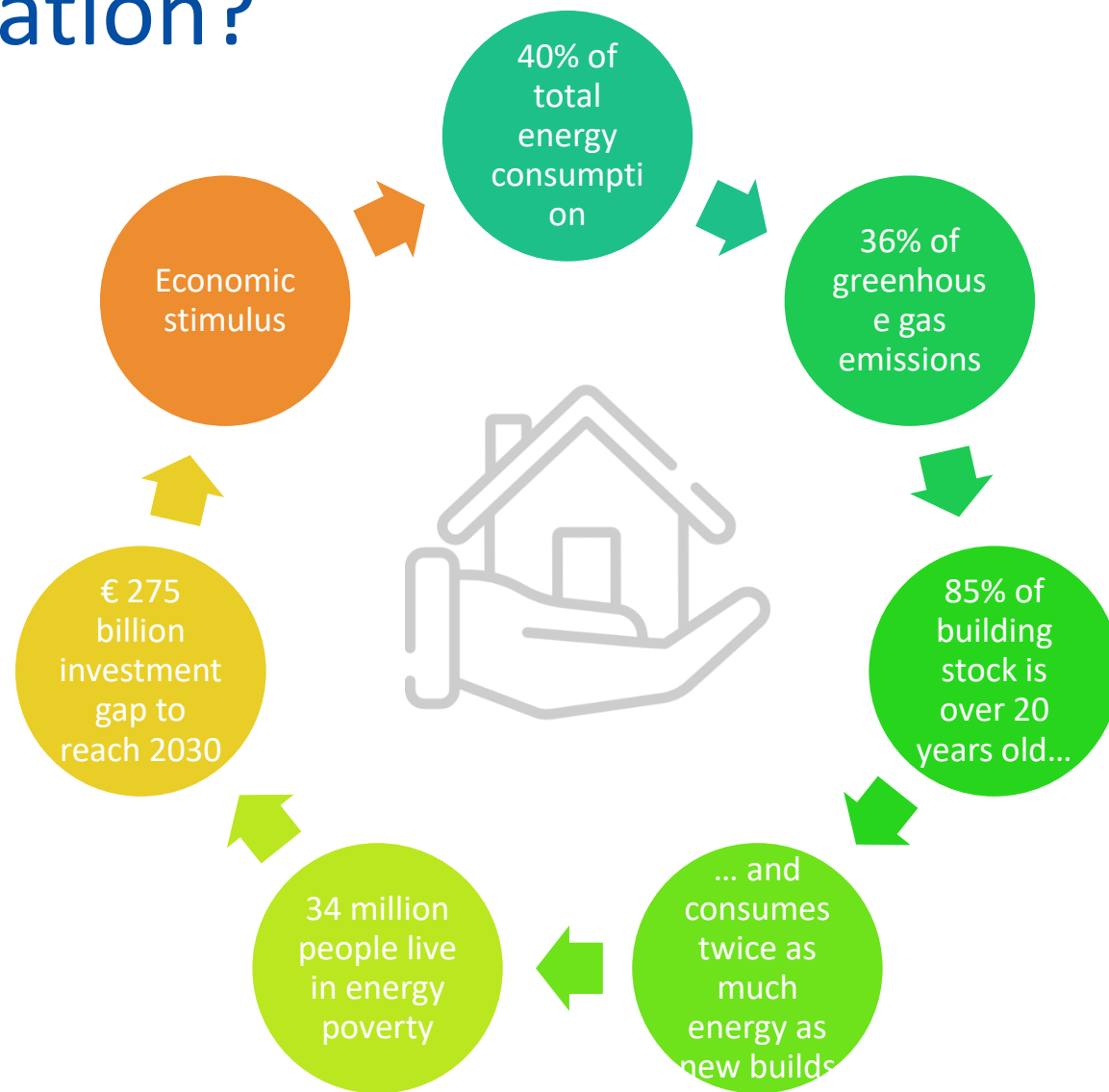
Creating jobs

Improving lives

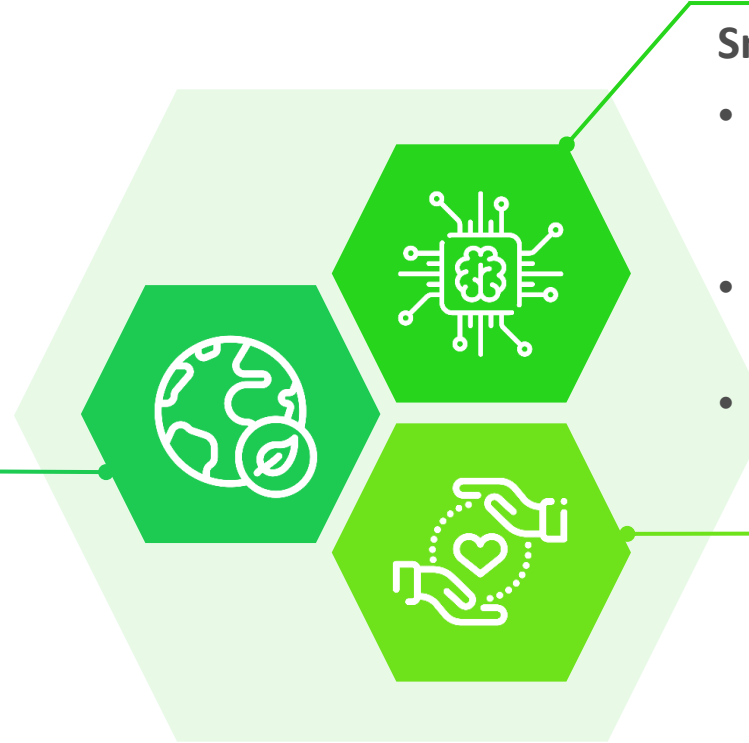
Stefan Moser, Head of Unit, Energy Efficiency of Buildings and Products

Euralarm, 18 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

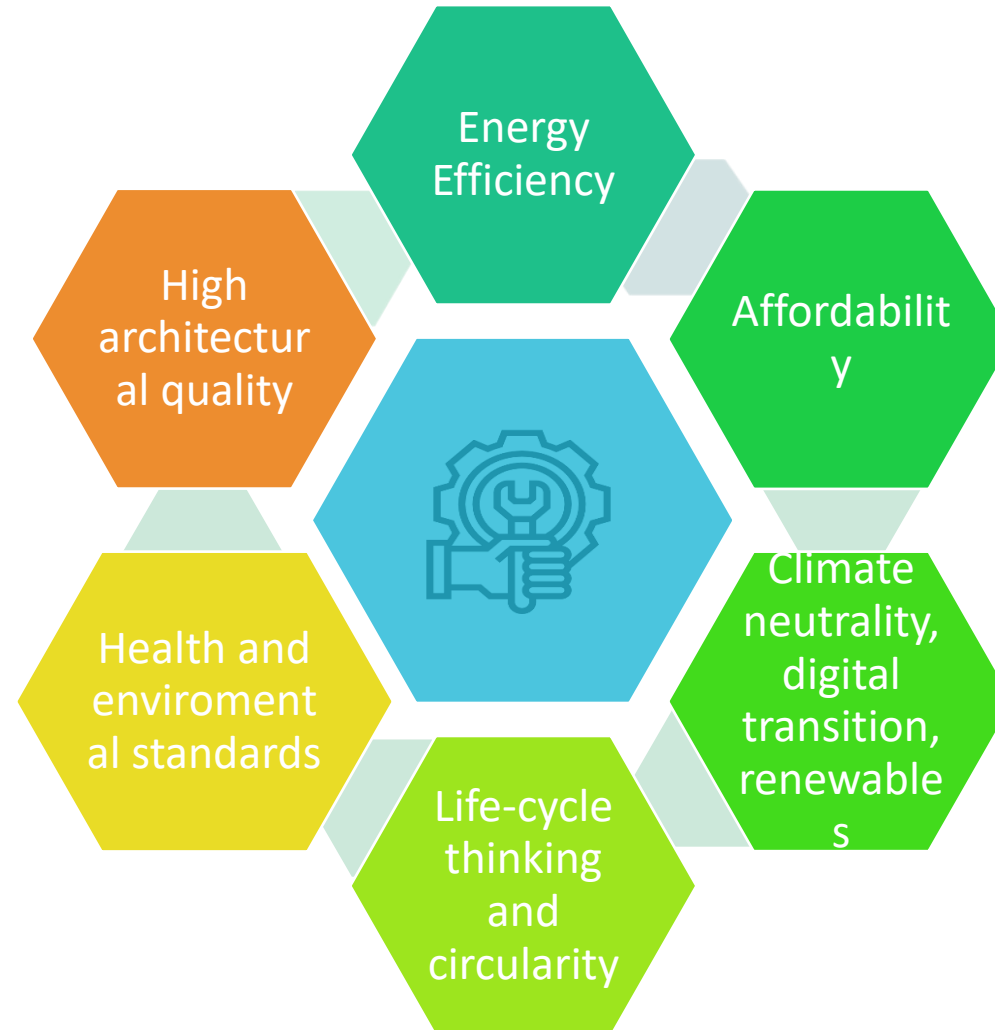
Climate neutral buildings

- 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

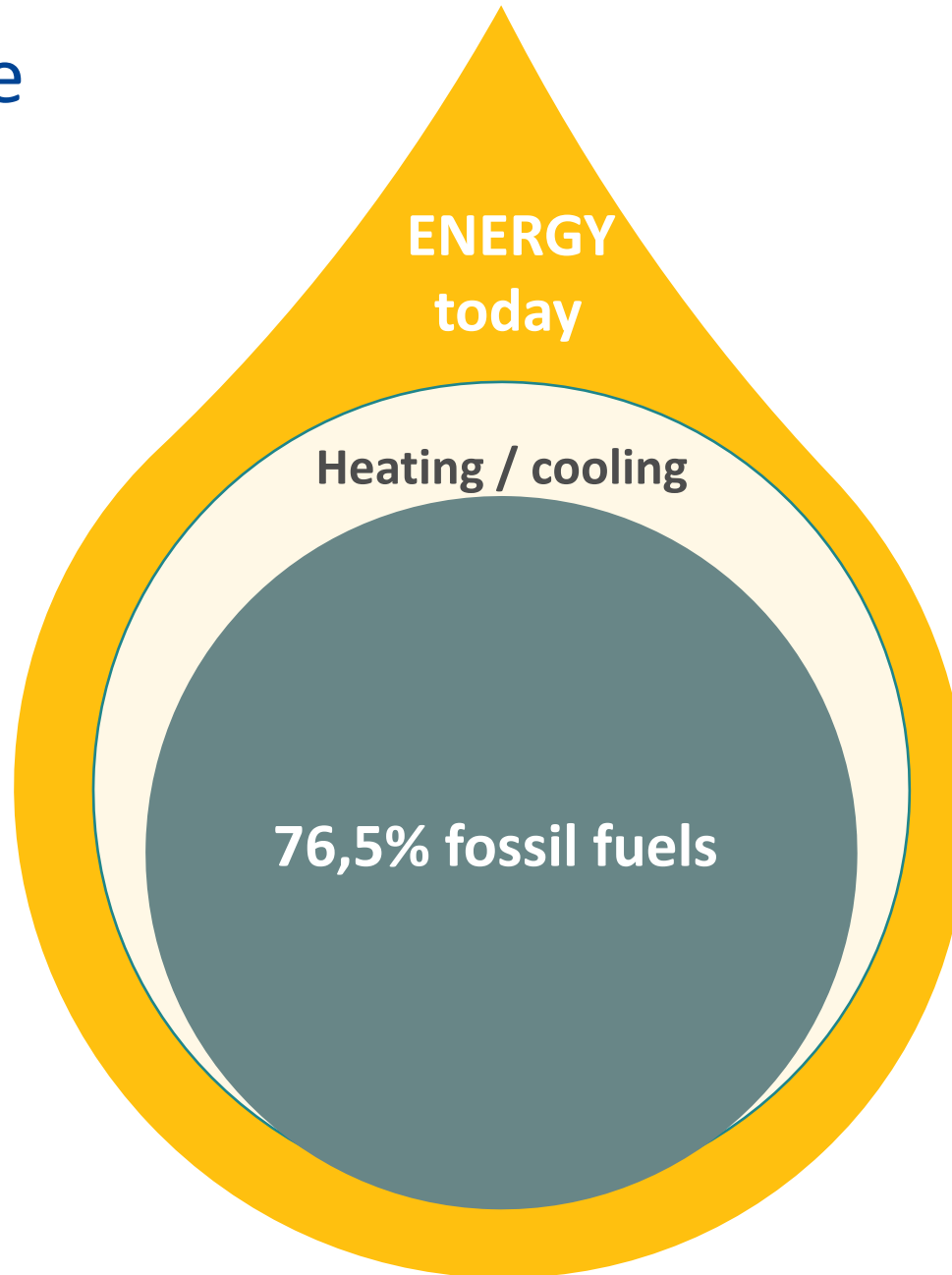
... impact to be scaled up

- 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

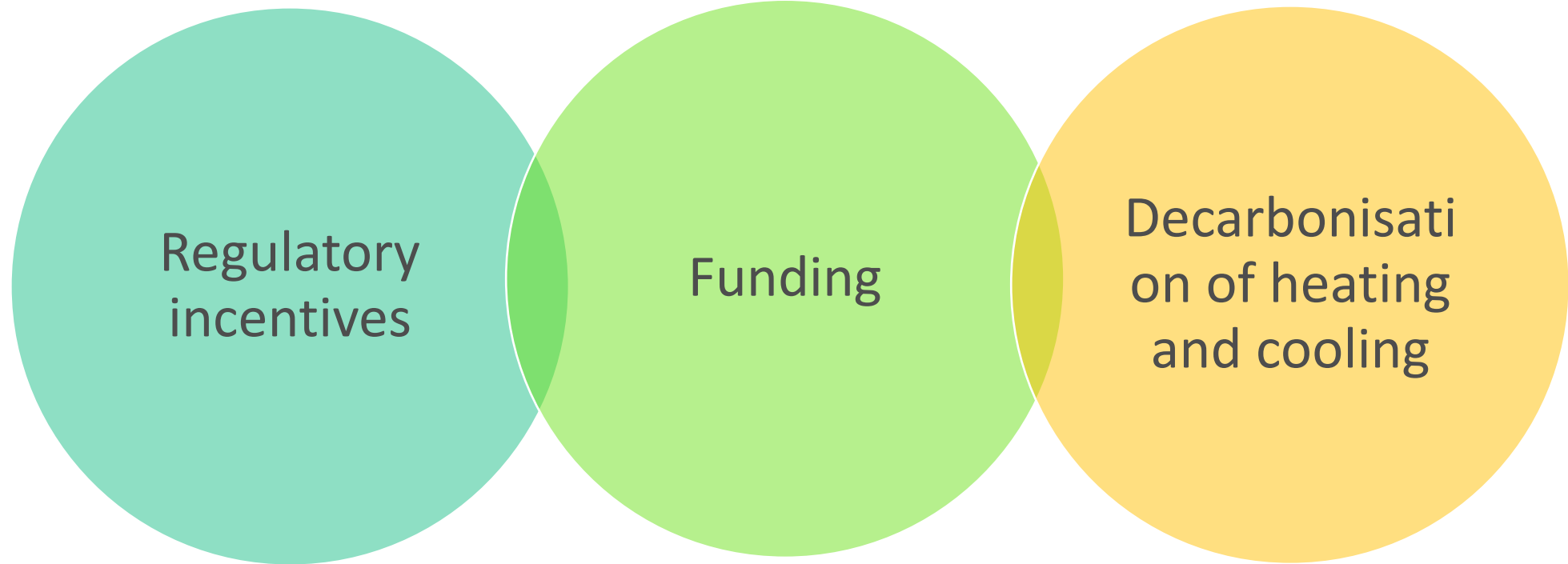
Construction
sector for the
sustainable future

Addressing energy
poverty and
healthy housing

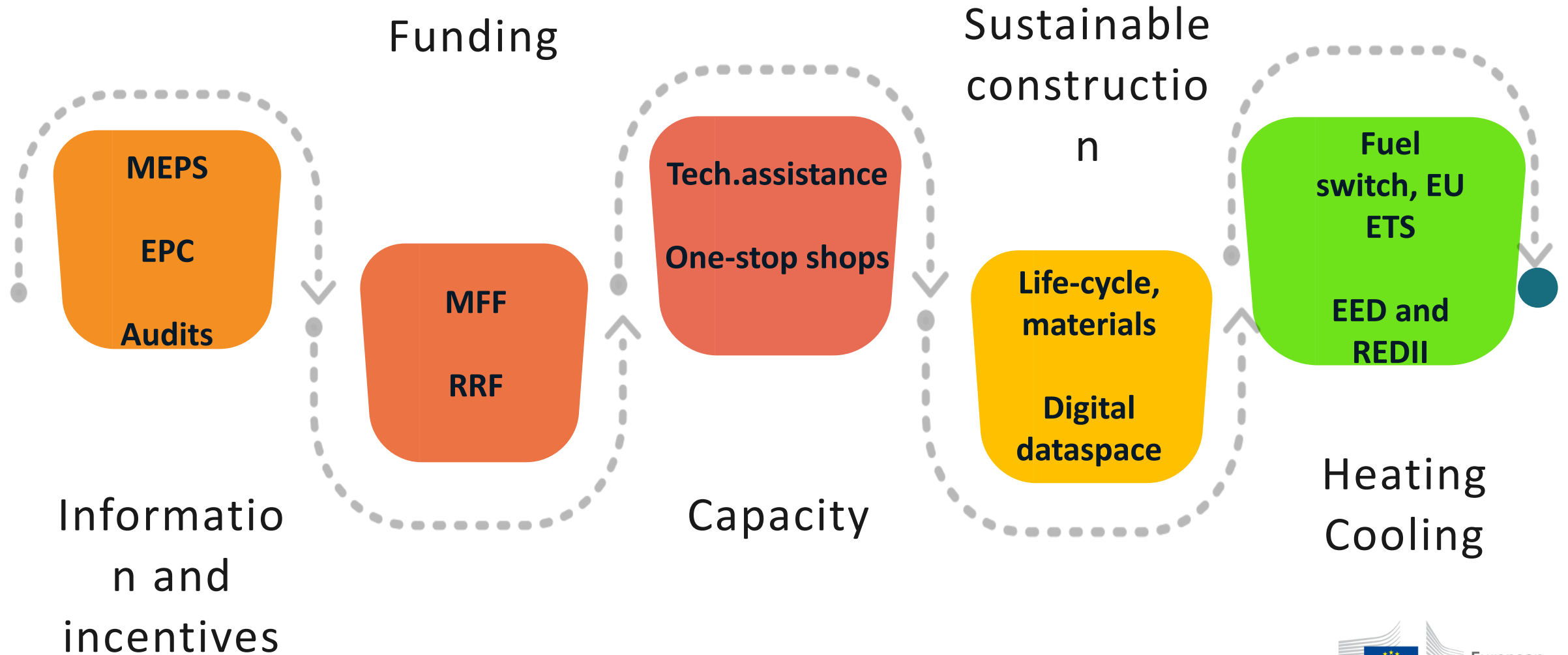
Decarbonisation
of heating and
cooling



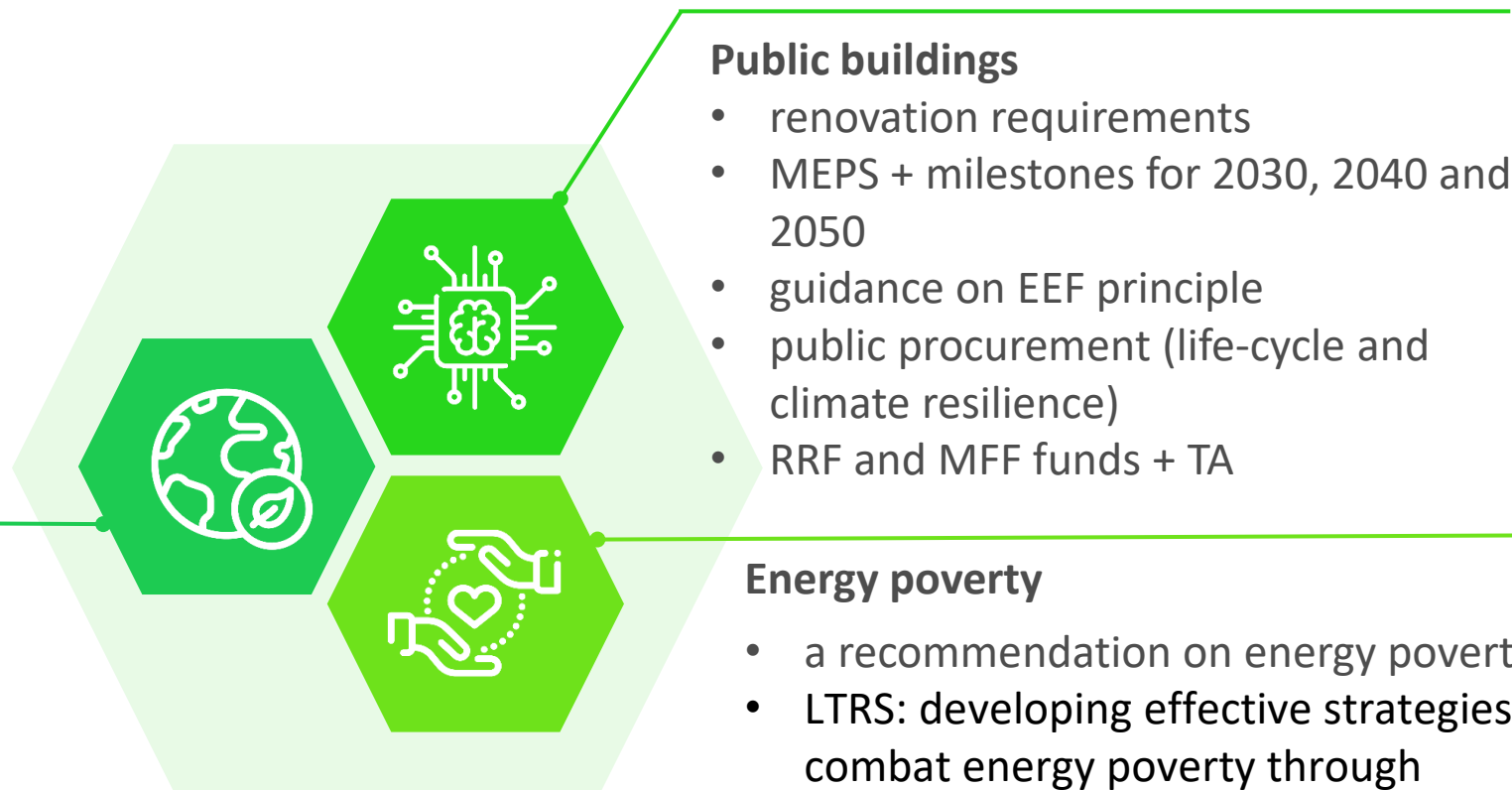
Flagship measures



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