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MILANO 1863

tecnalia



THERMOWATT



Solintel



WATT+VOLT  
ELECTRICITY | NATURAL GAS

IZNAB Sp. z o.o.  
"Innovation Oriented To Business"

FAHRENHEIT  
Cooling Innovation.



HEAT4COOL

Sunamp  
Heat Batteries™



Symelec  
ENERGIAS RENOVABLES

HOCHSCHULE  
LUZERN

EC update on current policy support for the  
renovation of buildings  
Eleftherios BOURDAKIS, Policy Officer  
(European Commission)



Heat4COOL project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No 723925



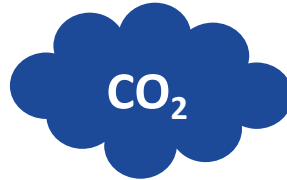
# Key facts for EU buildings



Buildings account  
for 40% of EU  
energy  
consumption



90% of our  
time indoor



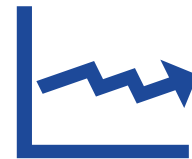
Buildings  
account for 36%  
of CO<sub>2</sub> emissions



75% of EU citizens  
live in cities



75% of EU buildings  
is energy inefficient



1% renovation rate



**The European Green Deal** is our new growth strategy – for a growth that gives back more than it takes away. It shows how to transform our way of living and working, of producing and consuming so that we live healthier and make our businesses innovative.





# RENOVATION WAVE





# Renovation wave



- Address low decarbonisation and renovation rates
- Improve energy efficiency of the EU building stock
- Stimulate economic growth
- Provide jobs and boosts the construction sector
- Strengthen Europe's industrial competitiveness



- Roadmap published in May 2020
- Public consultation closed on 9 July 2020
- Strategic communication and an action plan published on 14 October 2020

[https://ec.europa.eu/commission/presscorner/detail/en/IP\\_20\\_1835](https://ec.europa.eu/commission/presscorner/detail/en/IP_20_1835)



# Renovation Wave - Aim



- At least double renovation rates in the next ten years and make sure renovations lead to higher energy and resource efficiency
- Renovate at least 35 million buildings and create 160,000 additional green jobs in construction sector by 2030
- Response to energy poverty





# **HORIZON EUROPE – MISSION ON CITIES**





# R&I Missions



## R&I Missions

Relating EU's research and innovation better to society and citizens' needs; with strong visibility and impact

A mission is a portfolio of actions across disciplines intended to achieve a **bold, inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

Horizon Europe defines mission characteristics and elements of governance, and 5 missions areas.





# Mission on Climate-neutral and smart cities



## Mission Aim

Support, promote and showcase **100 European cities\*** in their systemic transformation towards climate neutrality by 2030 and make these cities into **experimentation and innovation hubs** for all cities, thus leading on the European Green Deal and on Europe's efforts to become **climate neutral by 2050**.

3% of land – 72% of global GHG – 85% of European living in cities by 2050

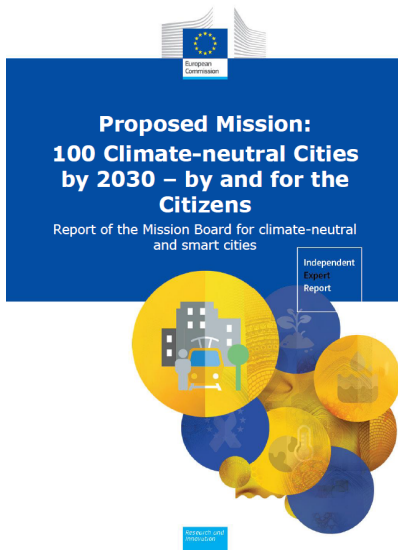
## OBJECTIVES

- Build a multi-level and co-creative process formalized in a Climate City Contract that will aim at the shared goal of the mission
- Help cities access the financial means to achieve the mission aim
- Create synergies with and between existing European climate initiatives and stakeholders

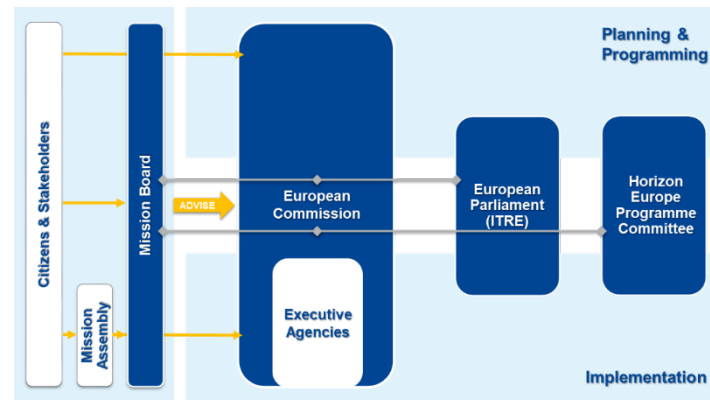
\*A City can be a city district, neighbourhood, zone of interest (airports, ports, university, etc.)



# Mission on Climate-neutral and smart cities



Final report was handed over to the European Commission during European R&I Days 2020 (22-24 September 2020)



<https://op.europa.eu/en/publication-detail/-/publication/bc7e46c2-fed6-11ea-b44f-01aa75ed71a1/language-en/format-PDF/source-160480388>



# **HORIZON EUROPE – BUILT4PEOPLE PPP**





# Current (Horizon 2020) contractual PPP on Energy efficient buildings (EeB cPPP)

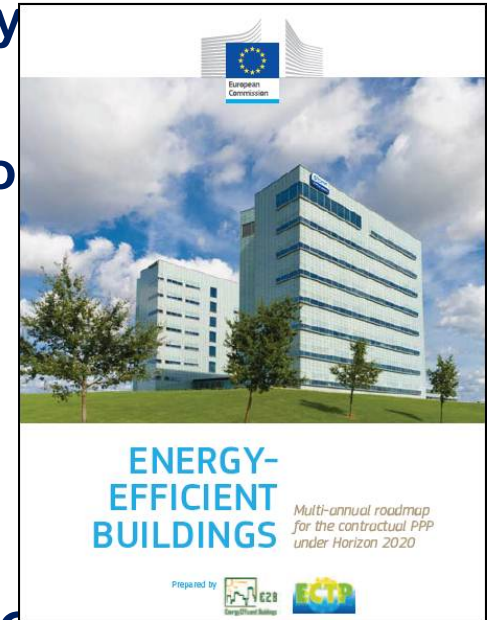


➤ Partners are mainly construction sector industry

**Scope:** Energy performance of buildings

**Approach:** Technology-driven innovation focusing on

- ✓ Design
- ✓ Advanced materials and nanotechnology
- ✓ Technology Building Blocks
- ✓ Construction Processes
- ✓ Energy performance monitoring & management
- ✓ Information and Communication Technologies (ICT)
- ✓ BIM, Data, and interoperability





# Future (Horizon Europe) co-programmed partnership on People-centric sustainable built environment



- Partners represent various actors across the building value chain

**Scope:** Decarbonisation, sustainability and better living

**Approach:** People (user)-centric holistic innovation aiming at lasting behavioural change to deliver under the long-term goals set by the Green Deal

**Focus:** Primarily on the renovation of existing buildings





# **NEW EUROPEAN BAUHAUS**





# New European Bauhaus



Shaping a  
movement

- to explore how to live better together
- to make the Green Deal a positive, tangible experience, for all of us
- to connect people from different disciplines and backgrounds and weave different perspectives and cultures
- to move beyond “form follows function”, factoring in the planet and social purposes
- to support the development of lead markets in sustainability
- to make EU think and deliver “out of the box”





# New European Bauhaus



## New European Bauhaus Info session

Info session slides: <https://europa.eu/new-european-bauhaus/system/files/2021-02/New-European-Bauhaus-Info-Session-slides.pdf>

Website: <https://europa.eu/new-european-bauhaus>

Instagram: @neweuropeanbauhaus

Pinterest: <https://www.pinterest.com/eucommission/new-european-bauhaus/>

Follow: #NewEuropeanBauhaus



Thank you.

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 @ebourdakis



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