



Researching the technical, social & economic factors impacting the energy performance of Smart Buildings (Built4People Partnership)

HORIZON-CL5-2026-09-D4-01

Program:	Horizon Europe Cluster 5.
Típus:	Research and Innovation Action
TRL szint:	4-5
Támogatás projektenként:	15.75 M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	2026. május 5.
Beadási határidő:	2026. szeptember 15.
Felhívás linkje:	

[LINK](#)

Research and quantify how existing and novel smart building solutions meet the needs of different social and economic groups. Identify major barriers and enablers for the use of smart building solutions among different socio-demographic and socio-economic groups, and research how it impacts the energy performance of buildings; Validate of findings in at least three different categories of existing buildings each one in a different country. Develop actionable recommendations tailored to key stakeholders to support the design, deployment and operation of inclusive, user-centric smart building solutions.

NKFIH Horizont Európa NCP Hálózat



ncp@nkfi.gov.hu



[Horizont Europa NCP Magyarország](#)



horizonteuropa.nkfi.gov.hu





Low disturbance prefabrication approaches for deep renovation of multi-storey buildings (Built4People Partnership)

HORIZON-CL5-2026-09-D4-02

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	6-8
Támogatás projektenként:	28.00 M EUR
Támogatott projektek száma:	4
Pályázati felület megnyílik:	2026. május 5.
Beadási határidő:	2026. szeptember 15.
Felhívás linkje:	

[LINK](#)

Project results are expected to contribute to all of the following expected outcomes:

1. Measurable reduction in the costs of deep renovation compared to current best practices;
2. Measurable increase in resource and energy efficiency compared to current best practices;
3. Measurable reduction in the number of days when occupants are disturbed due to renovation works;
4. Measurable reduction of dust, noise, waste and pollutant and greenhouse emissions on the construction site compared to current best practices.

NKFIH Horizont Európa NCP Hálózat



ncp@nkfi.gov.hu



[Horizont Europa NCP Magyarország](#)



horizonteuropa.nkfi.gov.hu





Advanced data platforms to integrate whole life carbon in building information tools, assessments, and certification (Built4People Partnership)

HORIZON-CL5-2026-09-D4-03

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	6-8
Támogatás projektenként:	16.50 M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	2026. május 5.
Beadási határidő:	2026. szeptember 15.
Felhívás linkje:	

[LINK](#)

Proposals are expected to address all of the following:

Demonstrate digital data exchange platforms for buildings to enable the development of comprehensive building information tools, assessments and/or certificates. These platforms should incorporate a wide range of data from, for example, whole life carbon assessments, national/international databases of embodied flow coefficients for construction materials and products, Digital Product Passports, Energy Performance Certificates, Smart Readiness Indicators, Building Renovation Passports, and Digital Building Logbooks. Use advanced data analytics and wherever possible existing recognised data standards to exchange data and ensure the interoperability with real-time digital twins and BIM-based models. Validate the proposed platforms in at least three large scale pilots. These pilots must encompass a range of building types and address diverse use cases.

NKFIH Horizont Európa NCP Hálózat



ncp@nkfi.gov.hu



[Horizont Europa NCP Magyarország](#)



horizonteuropa.nkfi.gov.hu





Validating policies and business models for affordable and sustainable housing (Built4People Partnership)

HORIZON-CL5-2026-09-D4-04

Program:	Horizon Europe Cluster 5.
Típus:	Research and Innovation Action
TRL szint:	4-5
Támogatás projektenként:	15.00 M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	2026. május 5.
Beadási határidő:	2026. szeptember 15.
Felhívás linkje:	

[LINK](#)

Proposals are expected to address all of the following:

Research the effectiveness and implications of existing policies at different levels of governance (from local to European), regulations, support instruments and business models on the renovation and provision of rental properties in the affordable housing sector.

Validate a methodology for comparing the affordability of different types of rented properties located in different local housing markets, with different climate conditions, and for different demographic groups, including vulnerable ones;

Design and validate new or improved solutions (policies, regulations, support instruments and/or business models) that improve affordability while still meeting decarbonisation targets for the housing sector. Quantify the effects of those solutions on the cost of a 'deep renovation' of rental properties in the affordable housing sector, considering the scale of the renovation (e.g. small multi-apartment buildings, large multi-apartment buildings; groups of buildings) and the type of governance and ownership models.

NKFIH Horizont Európa NCP Hálózat



ncp@nkfi.gov.hu



[Horizont Europa NCP Magyarország](#)



horizonteuropa.nkfi.gov.hu





On-site robotic and automated techniques for building renovation and new construction

HORIZON-CL5-2027-05-D4-05

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	6-8
Támogatás projektenként:	20.25 M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	2027. május 5.
Beadási határidő:	2027. szeptember 15.

Felhívás linkje:

[LINK](#)

Demonstrate innovative on-site robotic and automated techniques for building renovation and the construction of new buildings. At least one of the proposed techniques should involve 3D printing;

Develop techniques that are specifically for building-site flexible to adapt to various building typologies and, where possible, to materials and components already on the market;

Ensure that the proposed techniques appropriately take into account aspects of on-site workers' safety and human-robot collaboration;

Demonstrate the proposed techniques in at least three demonstrations to investigate their applicability for a variety of building typologies and climatic conditions, duly justified to represent a relevant part of the European building stock.

NKFIH Horizont Európa NCP Hálózat



ncp@nkfi.gov.hu



[Horizont Europa NCP Magyarország](#)



horizonteuropa.nkfi.gov.hu





Thermal energy optimisation and waste heat recovery of high-energy demand IT rooms in buildings or small edge data centres

HORIZON-CL5-2027-05-D4-06

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	6-7
Támogatás projektenként:	15.75 M EUR
Támogatott projektek száma:	3
Pályázati felület megnyílik:	2027. május 5.
Beadási határidő:	2027. szeptember 15.
Felhívás linkje:	

[LINK](#)

Project results are expected to contribute to all of the following expected outcomes:

1. Improved open access to performance data, sharing of best-practices and useful knowledge and information for owners and operators of IT infrastructure, as well as the IT and building sectors;
2. New designs of IT rooms in buildings or small edge data centres valorise waste heat through thermal management techniques, processes and tools.

NKFIH Horizont Európa NCP Hálózat



ncp@nkfi.gov.hu



[Horizont Europa NCP Magyarország](#)



horizonteuropa.nkfi.gov.hu





Integrating circularity in LCA-based modelling frameworks for renovation of buildings (Built4People Partnership)

HORIZON-CL5-2027-05-D4-07

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	4-5
Támogatás projektenként:	27.00 M EUR
Támogatott projektek száma:	4
Pályázati felület megnyílik:	2027. május 5.
Beadási határidő:	2027. szeptember 15.
Felhívás linkje:	

[LINK](#)

Project results are expected to contribute to all of the following expected outcomes:

1. Demonstration of measurable reductions in material flows, life cycle energy use and GHG emissions in building renovations that integrate circularity strategies to contribute to achieving net-zero whole life carbon buildings;
2. More robust approach to current modelling frameworks to comprehensively reflect the complexity of circularity strategies in life cycle assessments at building scale.

NKFIH Horizont Európa NCP Hálózat



ncp@nkfi.gov.hu



[Horizont Europa NCP Magyarország](#)



horizonteuropa.nkfi.gov.hu





Full-scale demonstration of heat upgrade solutions in industrial processes

HORIZON-CL5-2026-09-D4-08

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	7-8
Támogatás projektenként:	18.00 M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	2026. május 5.
Beadási határidő:	2026. szeptember 15.
Felhívás linkje:	

[LINK](#)

This topic aims to satisfy the need for process heat in the more industrial sectors by upgrading excess/waste heat from the process itself, possibly combined with heat recovered in nearby locations or local renewable heat, as a cost-efficient way to improve energy efficiency and reduce the GHG emissions and the use of fossil fuels. Thermal and/or electrical energy storage can be integrated, if it can contribute to better matching heat sources with process needs and/or to offer more flexible electricity consumption from the grid.

The temperature of the heat supplied to the process is not specified, but the proposals will be evaluated on their potential to enable the deployment of heat upgrade solutions in more sector(s) and process(es), where they are not yet state-of-the art.

NKFIH Horizont Európa NCP Hálózat



ncp@nkfi.gov.hu



[Horizont Europa NCP Magyarország](#)



horizonteuropa.nkfi.gov.hu





Demonstration of industrial excess/waste heat conversion to mechanical or electrical power

HORIZON-CL5-2027-05-D4-09

Program:	Horizon Europe Cluster 5.
Típus:	Innovation Action
TRL szint:	7-8
Támogatás projektenként:	13.50 M EUR
Támogatott projektek száma:	2
Pályázati felület megnyílik:	2027. május 5.
Beadási határidő:	2027. szeptember 15.
Felhívás linkje:	

[LINK](#)

Based on the results of the project, at least one industrial sector with a significant heating demand in the EU and Associated Countries develops pathways and business models to measurably increase the industrial excess/waste heat recovery and conversion to power.

Measurable improvement of industrial excess/waste heat recovery and conversion to power, possibly combined with energy storage, in terms of energy efficiency, flexibility of electricity production, climate and environment protection, reliability and safety, physical and cyber security, and profitability.

NKFIH Horizont Európa NCP Hálózat



ncp@nkfi.gov.hu



[Horizont Europa NCP Magyarország](#)



horizonteuropa.nkfi.gov.hu

