

STRUMENTI OPERATIVI E OPPORTUNITA' PER LE PMI: L'ECOSISTEMA METABUILDING PER L'INNOVAZIONE DELLA FILIERA DELLE COSTRUZIONI



Le opportunità per le PMI delle costruzioni: I bandi Built4People



Marco Caffi - Green Building Council Italia

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- **La partnership B4P**
- I progetti Horizon Europe afferenti a B4P
- Nebula
- Conclusione



Il più vasto programma di ricerca e innovazione transnazionale al mondo

1. Cancro
2. Adattamento al cambiamento climatico, compresa la trasformazione della società
3. Oceani, mari, acque costiere e interne sani
4. Città climaticamente neutre e intelligenti
5. Cibo e terreni sani

- Durata **7 anni** (2021-2027)
- Dotazione finanziaria complessiva di **95,5 miliardi** (a prezzi correnti)
- Finanzia attività :
 - di **ricerca e innovazione** – o attività di sostegno a R&I - attraverso *call for proposals* aperte e competitive.
 - esclusivamente su **applicazioni civili**.

Horizon Europe – I tre pilastri principali

Excellent Science

“ Excellent Science” è il primo dei tre pilastri del Programma Quadro Horizon Europe. Il suo obiettivo generale è di **rafforzare ed estendere l'eccellenza della base scientifica** dell'Unione Europea.

Global Challenges & European Industrial Competitiveness

“Sfide globali e competitività industriale” è il nome del pilastro con il budget più cospicuo di Horizon Europe. Oltre la metà del finanziamento totale del programma è dedicata a tutte quelle **azioni orientate a rafforzare l'impatto della ricerca e dell'innovazione per migliorare le problematiche della società e le tecnologie industriali.**

Innovative Europe

Il pilastro *Innovative Europe* intende stimolare le innovazioni pionieristiche, creatrici di mercato ed ecosistemi favorevoli all'innovazione, **identificando e “nutrendo” innovazioni e tecnologie breakthrough** (di rottura, dirompenti...).



EUROPEAN PARTNERSHIPS FOR THE DIGITAL AND INDUSTRIAL TRANSITION

Public and private sectors **mobilise research and innovation funding** to address **global challenges** that matter to EU citizens

COVID-19 pandemic, resource scarcity and uncertain supply chains highlighted the importance of ensuring Europe's open strategic autonomy and leadership in key enabling technologies

33% of **HORIZON EUROPE** Partnership R&I funding is expected to contribute to the EU's digital goals

CONTRIBUTION TO THE UN SUSTAINABLE DEVELOPMENT GOALS



10 Partnerships for the digital transition and industrial leadership



EUROPEAN PARTNERSHIPS FOR THE GREEN TRANSITION

Public and private sectors **mobilise research and innovation funding** to address **global challenges** that matter to EU citizens

European Green Deal – climate neutral by 2050, green technology, sustainable industry and transport, cut greenhouse gas emissions and pollution, put biodiversity on path to recovery by 2030

67% of **HORIZON EUROPE** Partnership R&I funding is expected to contribute to a greener, sustainable future

CONTRIBUTION TO THE UN SUSTAINABLE DEVELOPMENT GOALS



19 Partnerships for the green transition



Obiettivi e sfide

#EUGreenDeal



#RenovationWave



Due sono le principale sfide critiche per l'ambiente costruito:

- Diventare più sostenibile e **resiliente** di fronte ai **cambiamenti climatici** e alla **riduzione della biodiversità**
- Diventare più "**incentrato sulle persone**" per migliorare il benessere individuale e la **coesione sociale**



Servono innovazioni tecnologiche e sociali, **combinare**

I fattori abilitanti: il nuovo Bauhaus europeo

#NewEuropeanBauhaus



Beautiful Inclusive
Sustainable

Un **movimento creativo e transdisciplinare** per:

- **creare un ponte** tra il mondo della **scienza e della tecnologia**, dell'arte e della cultura
- sfruttare le nostre sfide verdi e digitali per **trasformare le nostre vite in meglio**
- affrontare **problemi sociali complessi insieme** attraverso la co-creazione.

« *If the European Green Deal has a soul, then it is the New European Bauhaus which has led to an explosion of creativity across our Union* ».

Ursula Von der Leyen, President of the European Commission

I fattori abilitanti: la Built4People partnership



KEY FACTS AND FIGURES

Horizon Europe Pillar and Cluster: Pillar II – Cluster 5 Climate, energy and mobility

Type of partnership: Co-programmed

Coordinating entity: ECTP and WGBC

Total estimated budget: EUR 780 m

EU commitments: EUR 380 m

Partners' commitments: EUR 400 m

Predecessor under Horizon 2020: Energy-efficient Buildings (EeB) cPPP

- Un partenariato pubblico-privato nell'ambito Horizon Europe per **accelerare l'innovazione incentrata sulle persone verso una vita sostenibile e un ambiente edificato di alta qualità**, a basse emissioni di carbonio, efficiente dal punto di vista energetico e delle risorse.
- Mira a riunire l'intera catena del valore **alimentando una rete di cluster di innovazione** che integrerà e sfrutterà i risultati dei progetti finanziati dalla CE
- I **partner consigliano alla commissione dove investire** il proprio budget per la ricerca e l'innovazione

La partnership B4P

I partner

EUROPE REGIONAL NETWORK  WORLD GREEN BUILDING COUNCIL



Progettazione

Costruzione

Gestione

- Committenti
- Investitori
- Amministrazioni pubbliche

- Progettisti
- Ingegneri
- Architetti

- Produttori di materiali
- Costruttori
- Immobiliaristi

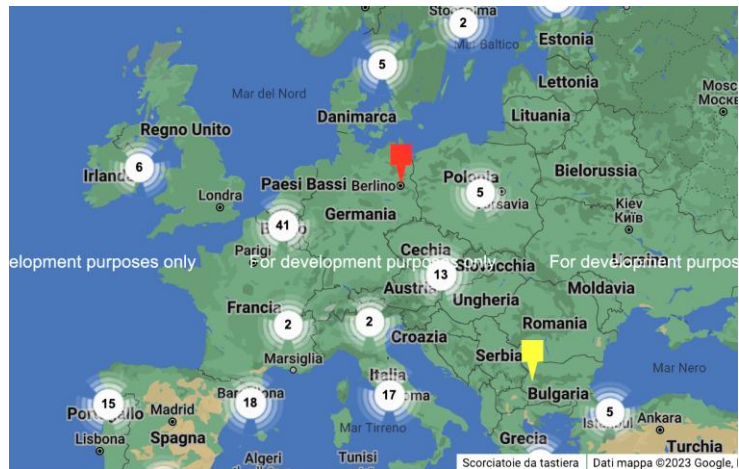
- Impiantisti
- Utenti
- Servizi immobiliari

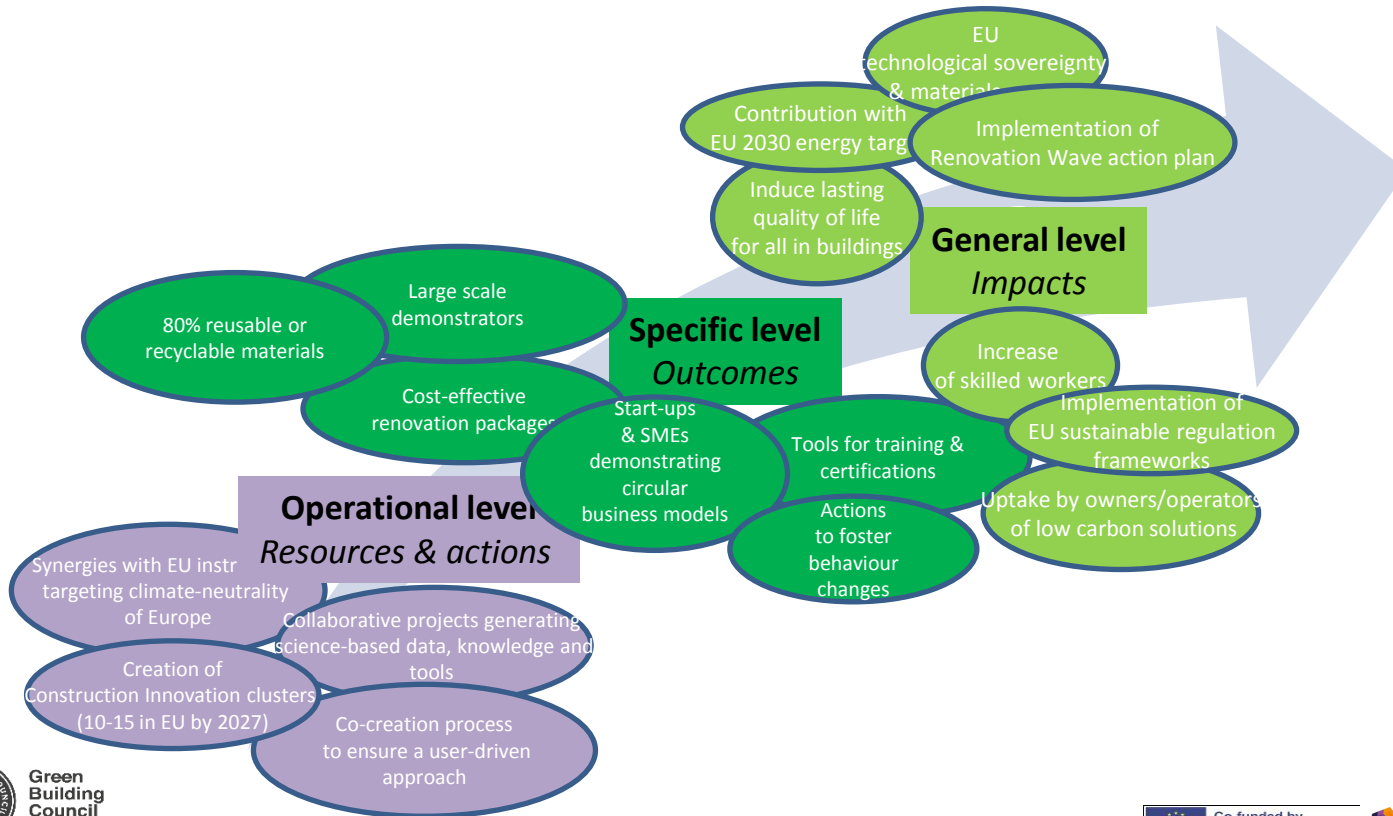
> 350 soci

> 250 professionisti aderenti

La partnership B4P

I partner





Lead to macro-level objectives: SDGs, Green Deal, OECD, World Bank, WEF, EU specific domain:

- Healthy built environment and preserving cultural heritage
- Decarbonised construction & renovation
- Competitive construction industry
- Increased Demand and uptake of sustainable solutions

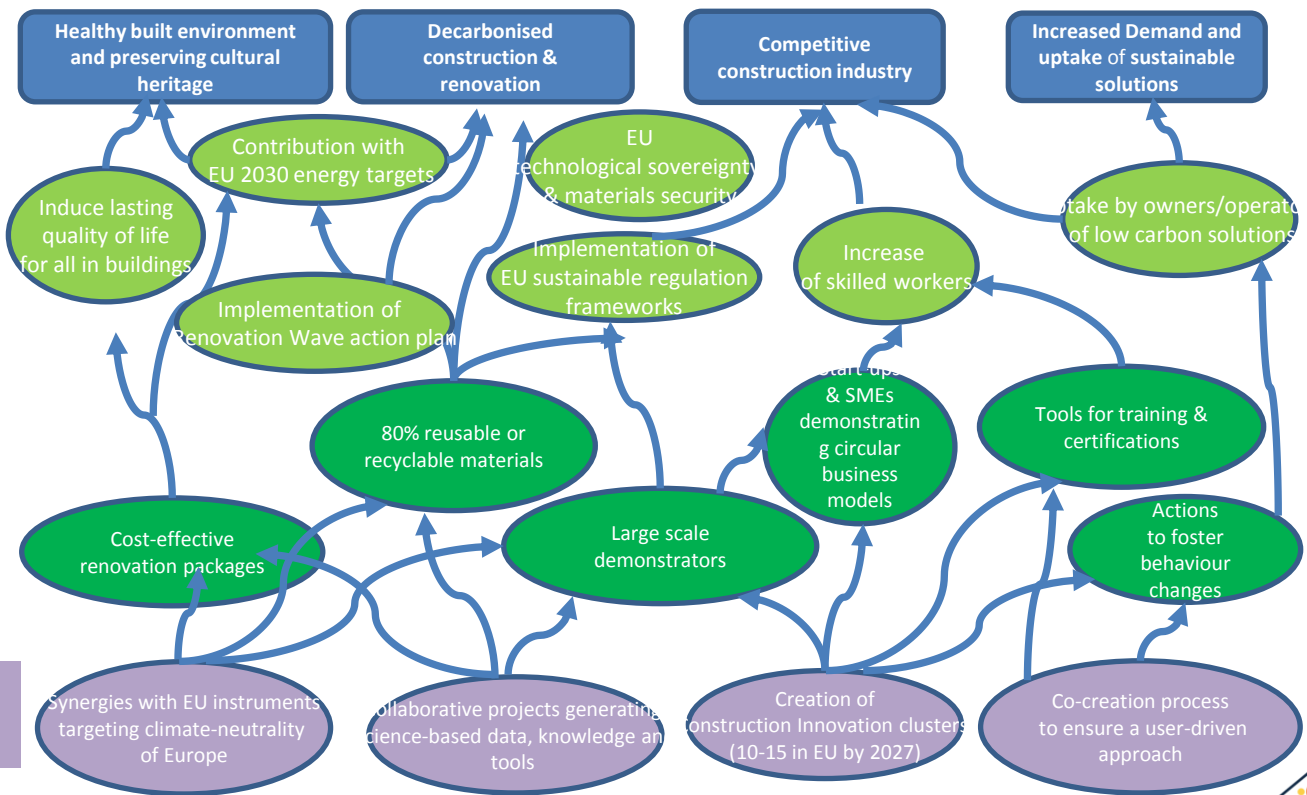
Azioni, risultati e impatti – interazione e correlazione con macro obiettivi

Link to macro-level objectives:
SDGs, Green Deal, OECD, World Bank, WEF, EU specific domain

General level
Impacts

Specific level
Outcomes

Operational level
Resources & actions



Vision

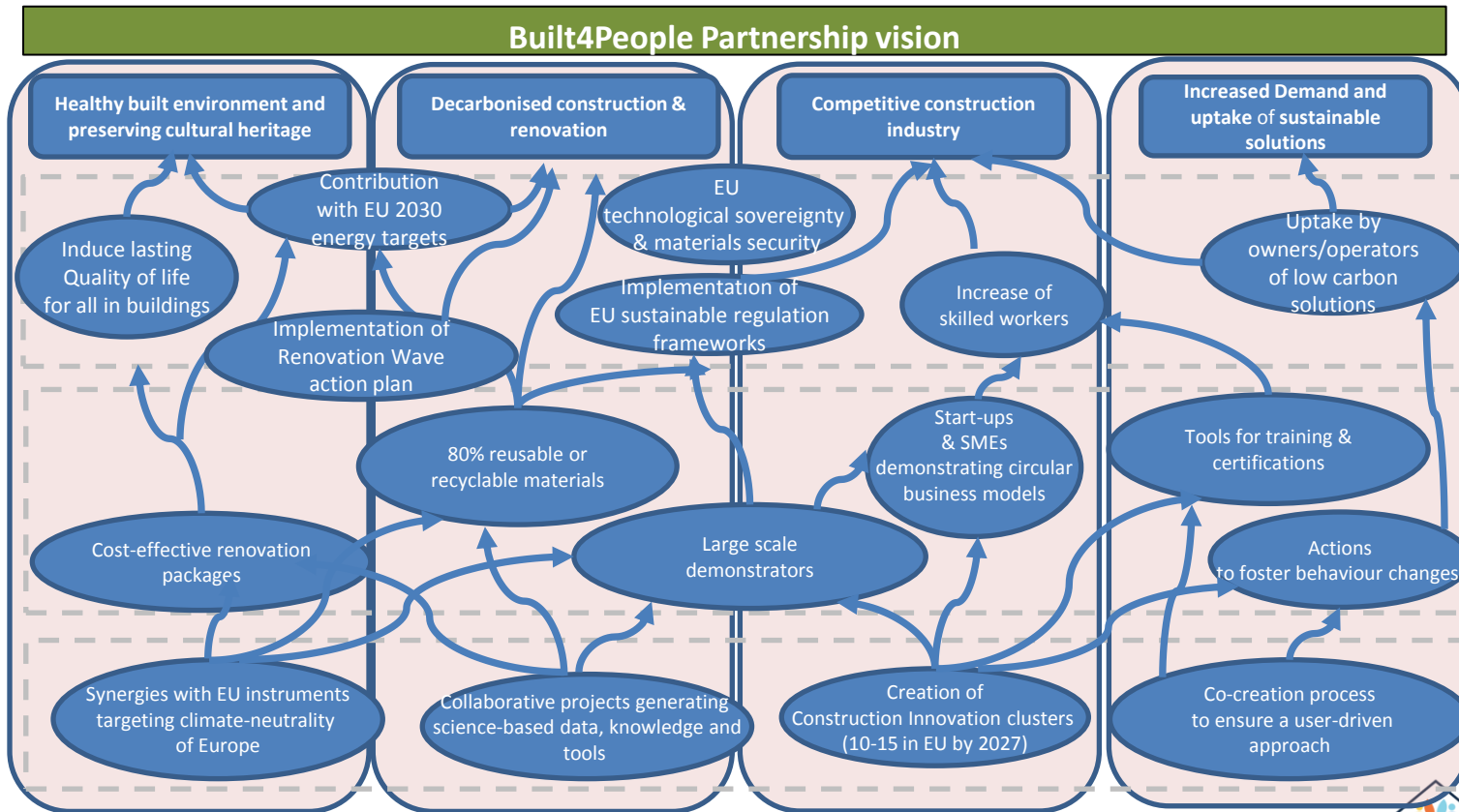
Built4People Partnership vision

Link to macro-level objectives: SDGs, Green Deal, OECD, World Bank, WEF, EU specific domain

General level
Impacts

Specific level
Outcomes

Operational level
Resources & actions



3 general objectives		10 specific objectives	
GO1	Generate holistic innovation in the built environment towards sustainability	SO1	Develop holistic solutions that break “technological silos” in built environment, lower carbon and resource intensity and mainstreaming LCA-based approach
		SO2	Develop solutions that enable/increase interactions of building with networks or increase sectors integration
GO2	Revitalise the sector through decarbonisation and sustainability transition	SO3	Demonstrate profitability and job creation potential of new sustainable and circular business models
		SO4	Demonstrate sector decarbonisation pathways across all the players in the value chain
		SO5	Demonstrate industrialization potential and economies of scale, as well as applicability to a large share of the EU buildings stock/infrastructure
GO3	Induce lasting behavioral change towards sustainable living	SO6	Develop strategies, methods and tools to adapt skills, culture and way of working to the opportunities arising from the new solutions
		SO7	Engage the whole value chain as well as policy makers and civil society in the design, development and implementation of the new solutions
		SO8	Orientate and demonstrate innovation to achieving outcomes for users in terms of functionality, comfort, convenience, accessibility, health etc
		SO9	Demonstrate safeguarding and promotion of architectural elements that represent cultural / historical value and heritage
		SO10	Develop strategies, solutions and tools to reduce time to market of the new technologies






KPI's on general objectives

GO	Description	KPIs
GO1	Generate holistic innovation in the built environment towards sustainability	<ol style="list-style-type: none"> R&I investment in the sustainable built environment area catalysed by the partnership # innovative products/services/processes linked to sustainability that are catalysed by the partnership and number of jobs created Contribution to the successful deployment of relevant EU instruments and frameworks # training programmes developed for the sustainable built environment
GO2	Revitalise the sector through decarbonisation and sustainability transition	<ol style="list-style-type: none"> Energy savings (MWh) GHG emission reduction (tCO2e) / Pollution reduction Share of reused/recycled materials used in construction (%) Share of buildings designed and constructed based on a life cycle approach # buildings with on-site RES production # of workers trained on working methods and tools in the fields covering the B4P objectives
GO3	Induce lasting behavioral change towards sustainable living	<ol style="list-style-type: none"> Share of the EU population living and working in green neighbourhoods # of private and public building owners with sustainable behaviour in their building stock

KPI's on specific objectives

SO	Description
SO1	13. # demonstrated innovative solutions and packages for sustainable construction and renovation
SO2	14. # demonstrated innovative solutions for the sustainability of the built environment value chain
SO3	15. # innovative services developed and demonstrated
SO4	16. # living labs established and involved in the partnership's projects
SO5	17. Total floor area and # buildings (residential or non-residential) directly involved in the partnership's projects demonstration activities
SO6	18. # and type of heritage buildings involved / enhanced by the partnership's projects, in line with the safeguarding of the historical environment and architectural values of the building stock
SO7	19. # building occupants and users involved in the partnership's projects demonstration activities
SO8	20. # people trained across the whole value chain in the deployment of innovative sustainable technologies, systems and methods
SO9	
SO10	

Legend

- XXX = Proposed operational definition fits very well with KPI description in MoU
- XXX = Proposed operational definition deviates from KPI description in MoU, usually for measurability reasons
- XXX = Difficulties encountered to come to a meaningful operational definition of KPI
-  = Preliminary assessment: unambiguous definition / measurement may be difficult
-  = Preliminary assessment: questions on data availability
-  = Proposed through project reports
-  = Proposed measurement through EU-wide datasets
-  = Proposed measurement partner survey

Built4People – la mappa delle strategie per perseguire gli obiettivi

10 specific objectives

SO9

Demonstrate safeguarding and promotion of architectural elements that represent **cultural / historical value** and heritage

R&I topic	State of the art	Topic scope	Nature of activities required	Linked outputs	Budget (M€)
<p>20</p> <p>Sustainable renovation for a more open, accessible and inclusive cultural heritage, in a sustainable urban development</p> <p>Note: Topics 20 & 21 should be merged and pushed in 2021-2022</p>	<ul style="list-style-type: none"> - Market available ICT technologies - numerous ongoing projects related to Cultural Heritage apps 	<ul style="list-style-type: none"> ↳ Sustainable renovation solutions to preserve cultural heritage assets with minimum environmental impact ↳ Use of ICT technologies to allow increase accessibility and inclusiveness of cultural sites (3D modelling, virtual reality, augmented reality), ↳ New cultural contents, services and 3D digital (and VR) reconstruction of cultural assets for public access, as well as proposals for hybrid use (digital combined with physical solutions) ↳ “Open sites” to citizens/tourists enabling a better understanding of interventions for the safeguarding of the built heritage. ↳ Approaches to foster a better understanding by citizens of cultural heritage and its sociocultural value ↳ Strategies for sustainable renewal and operation of cultural heritage assets ↳ Sustainable tourism strategies at local, regional, national and transnational level, increasing local economic development, while respecting and improving citizen’s way of life ↳ Development of monitoring campaigns to measure the influence of over-tourism in the interior climate of built heritage 	<p>Integration & demo (scaling up, industrialisation) – IA 2021-2023</p> <p>Socio-economic studies - CSA 2023-2025</p>	<p>11.1, 14.4</p>	55

La partnership B4P

Il processo

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[Call for proposal](#)
Grant

Sustainable and resource-efficient solutions for an open, accessible, inclusive, resilient and low-emission cultural heritage: prevention, monitoring, management, maintenance, and renovation
(Built4People)

HORIZON-CL5-2022-D4-02-03

Programme	Horizon Europe (HORIZON)	Status	Closed
Type of action	HORIZON Research and Innovation Actions	Deadline model	single-stage
Opening date	06 September 2022	Deadline date	24 January 2023 17:00:00 Brussels time



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I progetti Horizon Europe afferenti a B4P

Proposte della prtnership

Highly energy-efficient and climate neutral European building stock

D4-1-1. Industrialisation of deep circular renovation workflows, with as-a-service solutions for sustainable, circular renovation (Built4People) (2024)

Specific conditions	
<i>Expected EU contribution per project</i>	The Commission estimates that an EU contribution of between 3-5.5 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
<i>Indicative budget</i>	The total indicative budget for the topic is EUR 11 million.
<i>Type of Action</i>	IA
<i>Technology Readiness Level</i>	6-8

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

- Streamlining resource-efficient nearly zero-energy performance renovation processes.
- Renovations with reduction of at least 30 % waste, 25% cost, and 30% work time (to 1-2 days per dwelling/building unit), compared to current deep renovation processes.
- Reduced performance gap between as-built and as-designed (difference between theoretical and measured performance), and higher construction quality.
- Innovative, tailored business models for deep renovation, generating economies of scale and contributing to an increased rate of renovation.
- Improved comfort, Indoor Air Quality and Indoor Environmental Quality.

Scope: In line with the Renovation Wave and in order to meet long-term climate and energy targets, more action is needed to increase the rate and depth of building renovation. Several recent projects and calls have focused on prefabrication for deep renovation, but more work is needed to develop innovative, seamless workflows from design to off-site prefabrication, to installation, construction on-site, maintenance and future dismantling, reuse and recycling of pre-fabricated elements, duly considering life cycle performance, sustainability, and the potential to use the buildings as carbon sinks.

Proposals are expected to address all of the following:

I progetti Horizon Europe afferenti a B4P

type of action

Highly energy-efficient and climate neutral European building stock

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Azione di ricerca e innovazione (RIA) che stabilisce nuove conoscenze o esplora una tecnologia, un prodotto, un processo, un servizio o una soluzione nuovi o migliorati. Il finanziamento UE copre fino al 100% dei costi del progetto.

Azione di innovazione (IA) che produce piani o progetti per prodotti, processi o servizi nuovi o migliorati, tra cui prototipazione, test, dimostrazione, sperimentazione, convalida di prodotti su larga scala e replica sul mercato. Il finanziamento UE copre fino al 70% dei costi del progetto.

Azioni di coordinamento e sostegno (CSA) che migliorano la cooperazione tra l'UE e i paesi associati per rafforzare lo Spazio europeo della ricerca, comprese, ad esempio, attività di standardizzazione, diffusione, sensibilizzazione, comunicazione e messa in rete, dialoghi politici, apprendimento reciproco o studi. Il finanziamento UE copre fino al 100% dei costi del progetto.

I progetti Horizon Europe afferenti a B4P

Livello di sviluppo della tecnologia «TRL Technology Readiness Level»

Highly energy-efficient and climate neutral European building stock

D4-1-1. Industrialisation of deep circular renovation workflows, with as-a-service solutions for sustainable, circular renovation (Built4People) (2024)

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<i>Technology Readiness Level</i>	6-8

Mezzo per misurare o indicare la maturità di una data tecnologia.

- TRL 1 – Principi fondamentali osservati
- TRL 2 – Concetto di tecnologia formulato
- TRL 3 – Prova sperimentale del concetto
- TRL 4 – Tecnologia validata in laboratorio
- TRL 5 – Tecnologia convalidata in un ambiente rilevante
- TRL 6 - Tecnologia dimostrata in un ambiente
- TRL 7 – Dimostrazione del prototipo del sistema in ambiente operativo
- TRL 8 – Sistema completo e qualificato
- TRL 9 - Sistema effettivo collaudato in ambiente operativo (produzione competitiva nel caso di tecnologie abilitanti chiave; o nello spazio)

I progetti Horizon Europe afferenti a B4P

Il portale EU

The screenshot shows the top section of the European Commission's 'Funding & tender opportunities' portal. At the top left is the European Commission logo. The main title is 'Funding & tender opportunities' with the subtitle 'Single Electronic Data Interchange Area (SEDIA)'. On the right, there are language options ('English EN') and buttons for 'Register' and 'Login'. Below this is a dark blue navigation bar with a home icon, a search bar, and menu items: 'SEARCH FUNDING & TENDERS', 'HOW TO PARTICIPATE', 'PROJECTS & RESULTS', 'WORK AS AN EXPERT', and 'SUPPORT'. A 'Get started' button with an information icon is also present. A 'clear filter' button is located on the right side of the navigation bar. A warning banner in orange states: 'Grant Management Services will be experiencing issues on Thursday 30.03.2023 between 07:0 and 08:10 CET. We apologise for any inconvenience this may cause'. Below the banner is the 'Horizon Results Platform TV' section, which includes a navigation menu with 'Home', 'Interviews', 'About', and 'Contact'. The main banner for HRP TV features the text: 'HRP TV Share Knowledge • Find Mentors • Seize Opportunities • Innovate A service provided by the Horizon Results Platform' against a background of a starry night sky with a globe and colorful data charts.

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities>

I progetti Horizon Europe afferenti a B4P

Il portale EU



Funding & tender opportunities

Single Electronic Data Interchange Area (SEDIA)

English

Register

Login



SEARCH FUNDING & TENDERS

HOW TO PARTICIPATE

PROJECTS & RESULTS

WORK AS AN EXPERT

SUPPORT



Get started

clear filter



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Built4People



Match whole words only

GRANTS

TENDERS

Submission status

Forthcoming (10)

Open for submission

Closed (8)

Programming period

Funding and tenders (18)

Need help?



Sort by:

Submission status



Industrialisation of sustainable and circular deep renovation workflows (Built4People Partnership)

HORIZON-CL5-2024-D4-02-01

Call for proposal

Grant

Programme Horizon Europe (HORIZON)

Status Forthcoming

Type of action HORIZON Innovation Actions

Deadline model single-stage

Opening date 07 May 2024

Deadline date 05 September 2024 17:00:00 Brussels time

Supporting the creation of an accessible and inclusive built

Call for proposal

Grant



Green Building Council Italia

Co-funded by the European Union



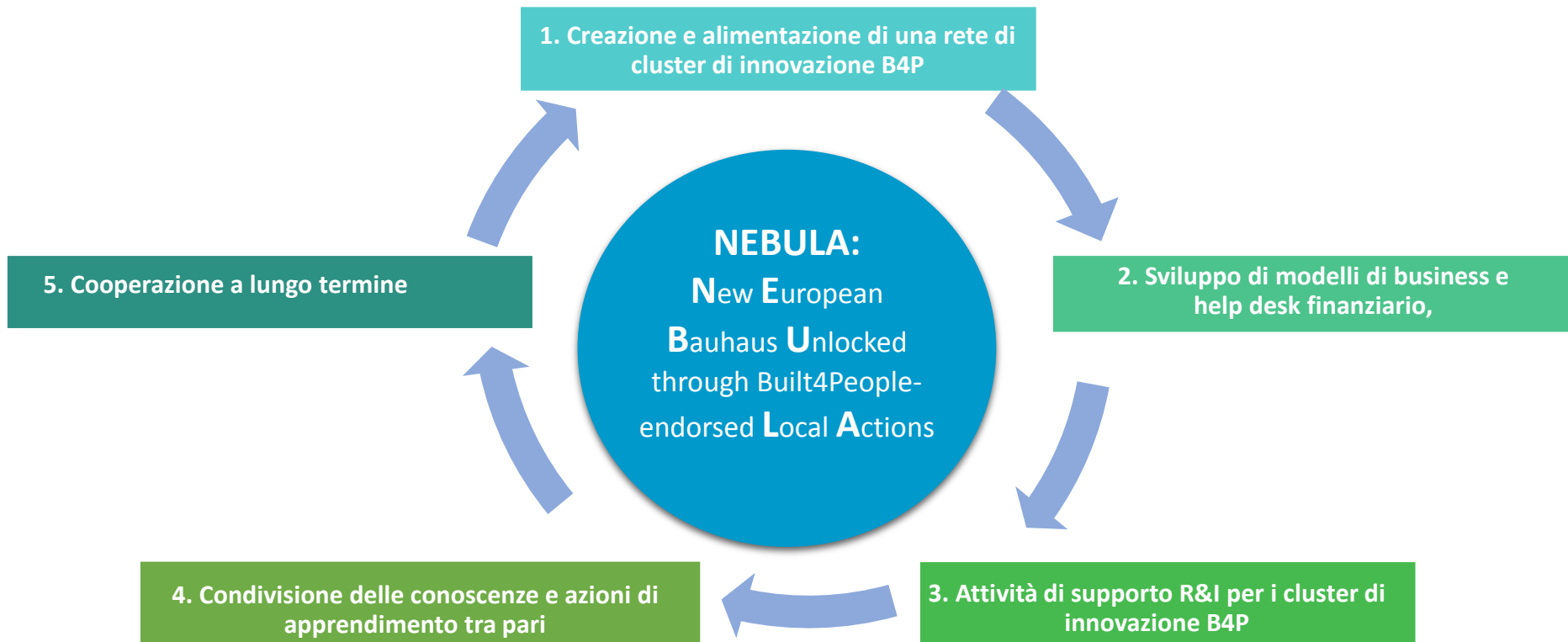
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Il progetto NEBULA e i cluster innovativi



La partnership **Built4People** lancia il progetto **NEBULA** che sosterrà una **rete europea di cluster di innovazione**



Gli obiettivi

NEBULA attiverà e alimenterà una rete di **cluster di innovazione B4P (B4PIC)** e fornirà loro un pacchetto di attività di supporto.

Farà da ponte tra la partnership Built4People e l'iniziativa New European Bauhaus (NEB), con **tre obiettivi**:



Nebula

Project partner e i Project affiliates



Project Partners



Project Affiliates



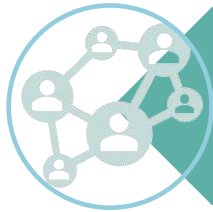
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- **Conclusioni**

Built4People – Get involved!



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Join the stakeholder forum:
info@built4people.eu



View open calls and apply for funding:
www.worldgbc.org/built4people

**STRUMENTI OPERATIVI E OPPORTUNITA' PER LE PMI:
L'ECOSISTEMA METABUILDING
PER L'INNOVAZIONE DELLA FILIERA DELLE COSTRUZIONI**



Grazie dell'attenzione!
internazionale@gbccitalia.org