

Built4People
(B4P)
Partnership
(Co-Programmed)



Introduction to the Built4People (B4P) Co-Programmed Partnership

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*ECTP Secretary General
B4P Management Team*

May 2023



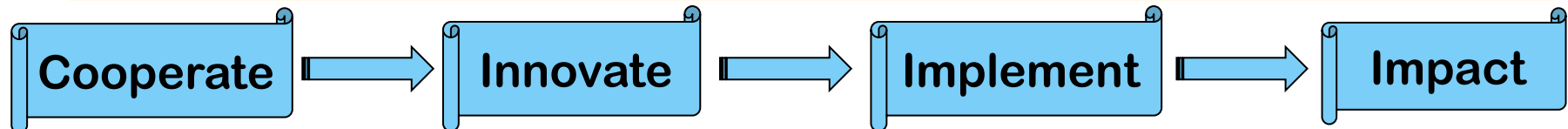
ECTP in a nutshell

European Construction, built environment & energy-efficient buildings Technology Platform

Continuously nurturing an integrated vision, roadmap and development approach on challenges such as **climate change, resources, efficiency & sustainable development** for the **Built Environment (buildings, infrastructures, utility networks...)** and **Construction sector**



- ECTP: *AISBL* legal entity, based in Brussels
- **150** member-organizations from the Construction sector and other sectors from the whole supply chain of the **Built Environment**.
- Main mission: develop new **R&D&I** strategies to improve **competitiveness**, meet **societal needs** & take up **environmental challenges**.

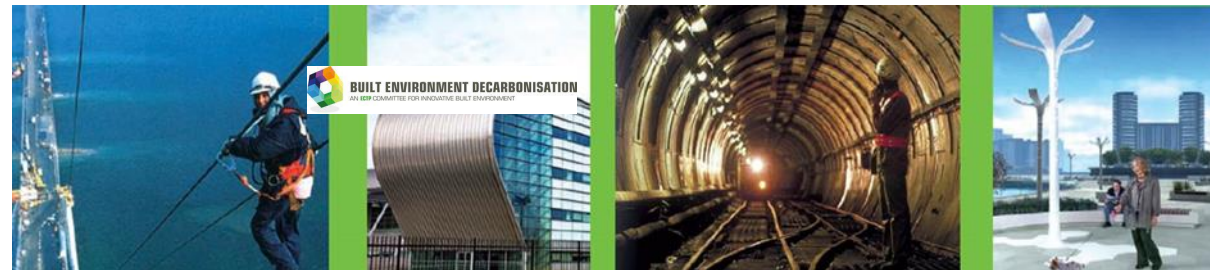


ECTP with 6 thematic Committees

INFRASTRUCTURE  **MOBILITY**
AN **ECTP** COMMITTEE

HERITAGE  **REGENERATION**
AN **ECTP** COMMITTEE

MATERIALS  **SUSTAINABILITY**
AN **ECTP** COMMITTEE



 **BUILT ENVIRONMENT DECARBONISATION**
AN **ECTP** COMMITTEE FOR INNOVATIVE BUILT ENVIRONMENT



 **BUILT ENVIRONMENT DECARBONISATION**
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 **DIGITAL BUILT ENVIRONMENT**
AN **ECTP** COMMITTEE

 **BUILT FOR LIFE**
AN **ECTP** COMMITTEE

ECTP & its ecosystem

- EMIRI - Energy Materials Industrial Research Initiative
- ENCORD - European Network of Construction Companies for Research & Development
- ETIP PV – European Technology and Innovation Platform for Photovoltaics
- FEHRL – Forum of European National Highway Research Laboratories
- IWBI – International WELL Building Institute

Memorandum of understanding (MoU) / Agreements



- IWG Action 3.2 – Positive Energy District
- IWG Action 5 – Energy Efficiency Solutions for Buildings

SET Plan IWG – Implementation Working Groups

- DG Connect
- DG Energy
- DG Environment
- DG Growth
- DG REGIO
- DG Research & Innovation
- CINEA

European Commission



- AIOTI
- BEA-SE4ALL
- CoolingEU
- EUMAT
- MANUFUTURE

Friends

ECTP

ECTP Members

- Industry: 23 Members
- SMEs: 35 Members
- Research organisations: 80 Members
- Other organisations: 12 Members

ECTP Committees (composed of ECTP Members)

- Built4Life Chairing: Eindhoven University of Technology (Faculty of Built Environment)
- Digital Built Environment Chairing: INDRA
- Built Environ. Decarbonisation Chairing: ACCIONA Construcción
- Heritage & Regeneration Chairing: TECNALIA
- Infrastructure and Mobility Chairin: DRAGADOS
- Materials & Sustainability Chairing: HeidelbergCement

Built4People Co-Programmed Partnership

- European Commission
- ECTP & World Green Building Council (WGBC)

NTP Network – National Construction Technology Platforms

Countries: Austria, Belgium, Cyprus, Denmark, France, Germany, Greece, Hungary, Italy, Lithuania, Netherlands, Norway, Poland, Portugal, Slovenia, Spain, Sweden, UK

ECTP - Reasons to join...



Influencing innovation and strategic research

- Participate in the definition of the European Strategic Research Agendas
- Interact with the Built4People Partnership Board
- Close links with key representatives from the European Commission
- Take advantage of ECTP's strategic presence in the heart of Brussels

Access to knowledge, resource and expertise

- Information on upcoming European funding calls and programmes
- Access to ECTP publications and research
- Contribute to technology transfer and research exploitation
- Participate in experts and Committees meetings
- Private access to a Collaborative Workspace (CWS)
- Access to the dataset of sectorial projects funded by the H2020, Horizon Europe and LIFE framework programmes

Opportunities for networking, training & development

- Discount for participants in the ECTP Biennial Conference to disseminate project outcomes
- Seminars and workshops to discuss technical challenges and facilitate networking
- Meet potential partners for your research projects

Built4People (B4P) Partnership (Co-Programmed)

A policy cross-cutting initiative, addressing buildings climate-neutrality but also broadly speaking sustainability, reducing resource intensity and increasing recyclability, taking into consideration other policies relevant to buildings, including the need to preserve our European Cultural Heritage.

Scope:

- Decarbonisation, sustainability and better living (Europe & beyond)
- Gather partners across the built env. value chain for a *cleaner, safer, affordable, smarter, decarbonised & sustainable Built Env.*

Aim:

- Produce & deliver on the market holistic innovation
- long-lasting transformations & behavioural change
- deliver long-term goals set by the EGD

Approach:

- People-centric holistic innovation
- High quality architecture → low carbon, highly energy & resource efficient built env.
- Drive the societal and economic transition towards sustainability.

Coordination:

- EC: DG ENER Lead contact → co-creation process among 12 EC services responsible for the policies focusing on the BE: ENER.B2, B3, B5; RTD.D1; GROW.C1; ENV.B2; MOVE.B3; CLIMA.C1; CNECT.H5; EAC.D1, D2; EMPL.C3.
- Partners others than the EU:



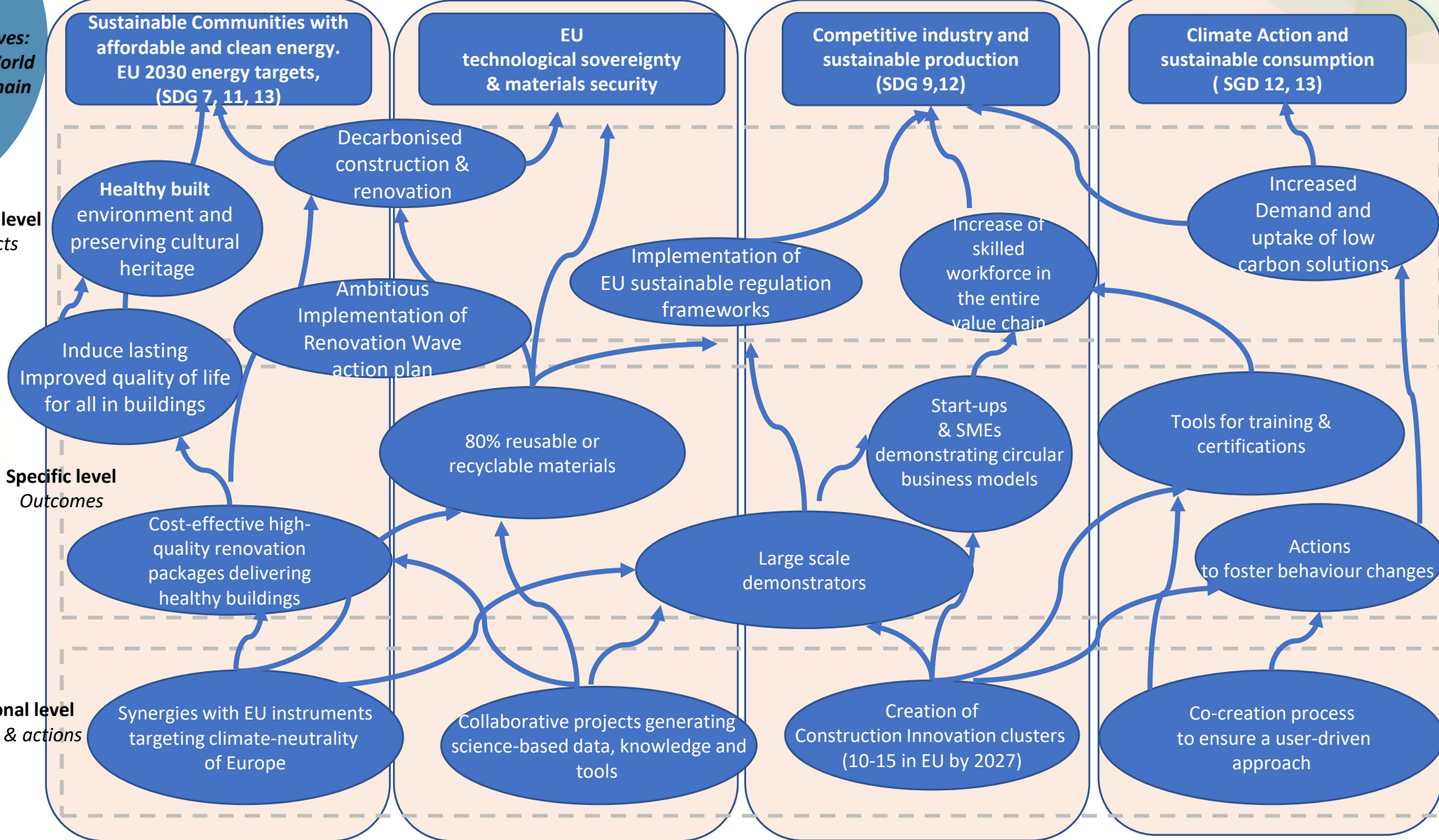
<https://www.ectp.org/built4people/>

Built4People PSIP (Partner-specific Impact Pathway)

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

Built4People Partnership vision

General level
Impacts



Operational level
Resources & actions

Specific level
Outcomes

Built4People - Summary of objectives in MoU



3 general objectives

GO1 **Generate holistic innovation in the built environment towards sustainability by 2027/28**

GO2 **Revitalise the sector through decarbonisation and sustainability transition by 2030**

GO3 **Induce lasting behavioral change towards sustainable living by 2030**

10 specific objectives

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

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

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

10 operational objectives

OO1 Cost-effective multi-functional and/or prefabricated holistic renovation packages

OO2 Set of smart-grid ready and smart-network ready buildings acting as active utility nodes

OO3 Tools and applications to facilitate a life cycle-based approach

OO4 New design models for buildings, infrastructure, public spaces and efficient and resilient cultural heritage

OO5 New protocols and approaches to zero-carbo construction and retrofitting and circular and bio-based economy

OO6 New services from home and in the community, incl. solutions for healthier indoor and outdoor environment

OO7 New solutions and tools for public and private (green) as well as new business/financing/risk mgt models

OO8 Solutions for smart and responsive buildings exploiting an improved knowledge of user experience (BaaS)

OO9 EU-wide open databases and digital Data Management Platforms on the performance of the built environment

OO10 Innovation clusters /ecosystems integrated with the construction value chain and other sectors

Built4People - Summary of KPIs in MoU



KPI's on general objectives

GO1

Generate holistic innovation in the built environment towards sustainability

1. R&I investment in the sustainable built environment area catalysed by the partnership
2. # innovative products/services/processes linked to sustainability that are catalysed by the partnership and number of jobs created
3. Contribution to the successful deployment of relevant EU instruments and frameworks
4. # training programmes developed for the sustainable built environment

GO2

Revitalise the sector through decarbonisation and sustainability transition

5. Energy savings (MWh)
6. GHG emission reduction (tCO2e) / Pollution reduction
7. Share of reused/recycled materials used in construction (%)
8. Share of buildings designed and constructed based on a life cycle approach.
9. # buildings with on-site RES production
10. # of workers trained on working methods and tools in the fields covering the B4P objectives

GO3

Induce lasting behavioural change towards sustainable living

11. Share of the EU population living and working in green neighbourhoods
12. # of private and public building owners with sustainable behaviour in their building stock

KPI's on specific objectives

SO1

SO2

SO3

SO4

SO5

SO6

SO7

SO8

SO9

SO10

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

Built4People Overall governance



B4P Stakeholders Forum

A balanced representation of experts and stakeholders from across Europe to advise on priorities and suggest adjustments and re-orientations where necessary

- ≈200 persons (or more) meeting
- At least once per year
- Besides B4P representatives, a focus on involving of interested stakeholders

Other EU-level initiatives

Aim to cooperate and achieve synergies in overlapping domains

- Representatives from other co-programmed or co-funded Partnerships & Missions, or from relevant research and innovation initiatives

B4P Partnership Board

Main forum for dialogue and steering to reach the objectives set out in the MoU

- ~60 representatives, 3-4 annual meetings, co-chaired by EC and non-EC partners
- Representatives of partners: EC (all involved DGs), ECTP and WGBC
- Observers can join upon invitation

State Representatives Group

Advise and support the achievement of the B4P objectives and ensure complementarity with national policies, priorities and programmes and provide information or make proposals to the Partnership Board

- Representatives from Member states and associated countries (including from SET-Plan IWG5)

Ad hoc request for input and support on:

- *SRIA*
- *Draft call topics Work Programme*
- *Additional Activities Plan*
- *KPIs (informal subworking group)*
- *Innovation clusters (informal subworking group)*
- *Stakeholders Forum*

B4P team

Coordination and operational management and preparation of meeting and support in deliverables and B4P Partnership's activities

- Representatives from ECTP and WGBC
- Currently: Alain Zarli, Anastasiya Yurchyshyna, Stephen Richardson, Laura Pallares

←

← (Invitation as observers)

← (operational alignment between management teams where relevant)

Built4People Partnership Board

2022-2023

- PB members:
 - **EC** representatives
 - **ECTP** representatives
 - Innovation / industry, Academic research (& RTOs), Technologies
 - **WGBC** representatives
 - Environmental sustainability, Social sustainability, Financial / Investment, Impact reporting & MLE

Permanent		Substitute		Affiliation
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Built4People States Representatives Group (SRG)



- **20 confirmed Countries**

- Austria
- Belgium
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Germany
- Hungary
- Ireland
- Italy
- Luxembourg
- Malta
- Netherlands
- Poland
- Portugal
- Slovenia
- Spain
- Sweden
- Turkey

- SRs invited as observers in the B4P PB (2022, cont. in 2023):
 - **Annett KUHN (Germany)** – Chair of the SET-Plan IWG (5) on energy efficiency in buildings
 - **Annabelle RONDAUD (France)**
 - FR holding the rotating presidency of the European council Q1-Q2 '22
 - Overall interesting to consider linking (to some extent) one observer to the MS holding the presidency of the Council
 - 20 confirmed countries (@01/05/2023)
 - *New countries can join at any time*
 - First SRG online meeting: April 20 2022, 2:30-4:30pm (CET)

Built4People Stakeholders Forum



• Objective:

- Advise and review on the priorities to be addressed, in line with the SRIA and the Horizon Europe strategic planning
- Provide with suggestions & recommendations for adjustments or re-orientations to the PB, where and when necessary

• Members:

- should reflect a balanced representation of experts and stakeholders from across Europe within the scope of the priorities of the European Partnership
 - including e.g. from academia, industry, SMEs, end-users, non-governmental and civil society organisations, stakeholder associations and regulatory bodies
- The Stakeholders Forum will elect a chairperson from among its own members, who will be invited as an observer to the PB meetings

→ *objective is to create a strong community around B₄P!*

- ECTP & WGBC affiliated entities, MS/AC via SRG...
- DG ENER, ECTP, WGBC media channels (News,...)
- Participants through European associations (not affiliated): CECE, EUREC, UIPI,...
- ...

• 1st B₄P Stakeholder Forum meeting

- Online – Wed 1st June 2022
- Attendance: 350 registrations & more than 170 joining live

*Next meeting
planned in
Q4 2023*

Built4People Additional Synergies (1/2)

• Synergies → SET-Plan

- Exchange of information:
 - Through the B4P SRG
 - Through the IWG5-CSA in support to IWG5 activities
 - Working on common policy recommendations
 - Organising common events
 - ...



Smart PEBs

- Positive-energy Buildings / Blocks
- Producing on a **yearly basis** more primary energy than used.
- Bioclimatic architecture, advanced materials, ICT...

Energy-driven Urban renovation

- Renovation wave
- Building Retrofitting
- Decarbonisation heating & cooling in Buildings



SET-Plan IWG 5
Energy Efficiency in Buildings

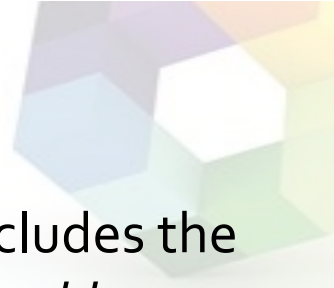
Built4People Additional Synergies (2/2)

• Synergies with Partnerships

• Example: Process4Planet

• built environment deals with a complex value chain which includes the process industry → *Making the built environment more sustainable requires collaboration with the process industry and vice versa*

• In the future: *CET, DUT, Made in Europe?, ...*



Main synergies

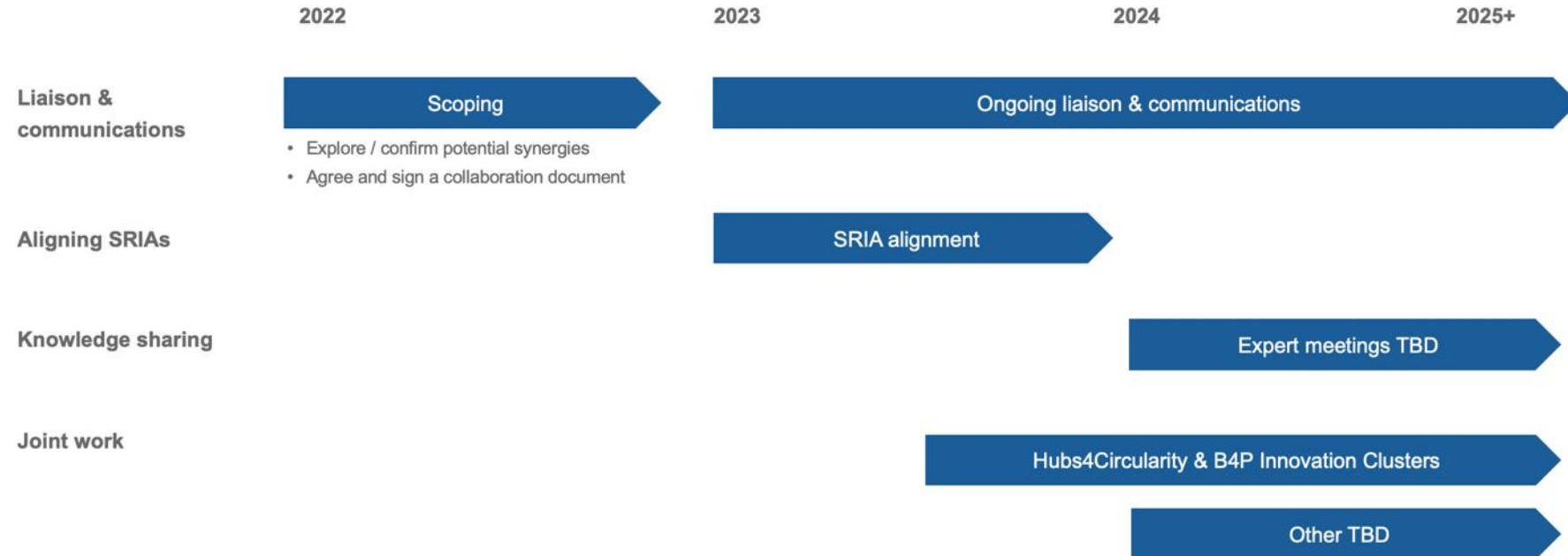
Embodied energy/carbon: reduce energy/carbon embodied in construction materials

CO2 Capture and use (CCU): develop materials that capture and store CO2

Circularity and new materials: re-use, re-cycle, up-cycle waste streams from both sectors

Industrial Urban Symbiosis: collaborations between hubs4circularity and innovation clusters

Collaboration plan



Built4People - Horizon Europe WP preparation



Built4People

SRIA



Built4People

≈2 weeks

Chance to materially influence call topics and way they have been elaborated



Built4People

≈1 week

Chance to give input on budget / final wording (no material changes possible)



Built4People

≈1 week

Final input - more of a sanity check



Member State and associated states



input



Internal EC alignment

input



1st draft Work Programme

Call topics description without budgets



Internal EC alignment



2nd draft Work Programme

Revised call topic description with budgets



Internal EC alignment



3rd draft Work Programme

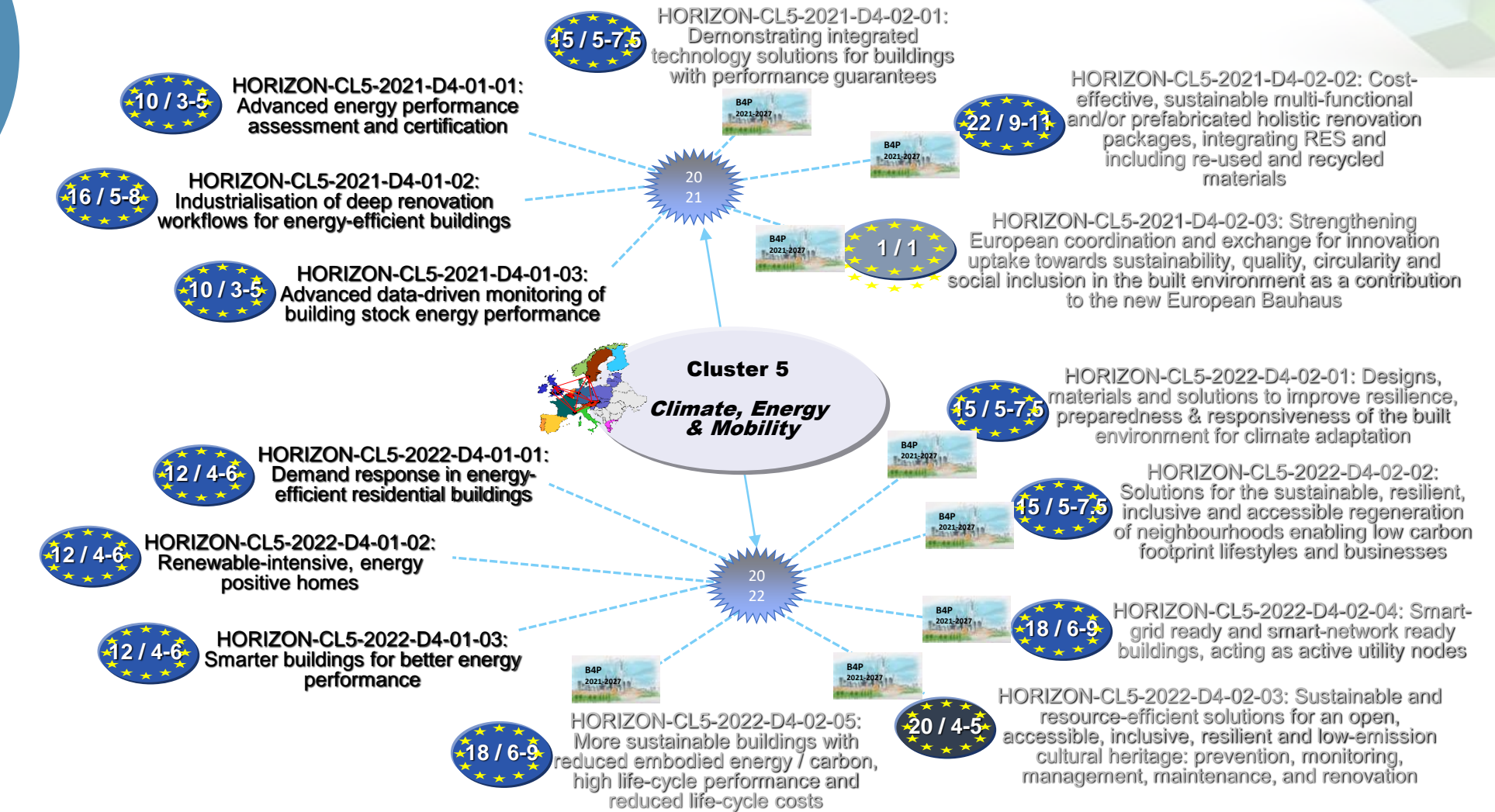
Final draft call topics



Final Work Programme

Published and open for participation

Built4People - Horizon Europe WP2021-2022



Built4People
- Horizon
Europe
WP2021-2022
Funded projects
(2021 topics)



Topic	Type of Action	Proposal Number	Acronym	Title	Coordinating organisation
HORIZON-CL5-2021-D4-02-01 : Demonstrating integrated technology solutions for buildings with performance guarantees (Built4People)	HORIZON-IA	101079888	EBENTO	Energy efficiency Building Enhancement through performance guarantee Tools	ETRA INVESTIGACION Y DESARROLLO SA (ES)
HORIZON-CL5-2021-D4-02-01 : Demonstrating integrated technology solutions for buildings with performance guarantees (Built4People)	HORIZON-IA	101080029	FORTESIE	CBDC powered Smart PerFORrmance contracTs for Efficiency, Sustainable, Inclusive, Energy use	EUROPEAN DYNAMICS LUXEMBOURG SA (LU)
HORIZON-CL5-2021-D4-02-02 : Cost-effective, sustainable multi-functional and/or prefabricated holistic renovation packages, integrating RES and including re-used and recycled materials (Built4People)	HORIZON-IA	101079961	AEGIR	DigitAl and physical incrEmental renovation packaGes/systems enhancing environmental and energetic behaviour and use of Resources	FUNDACION TECNALIA RESEARCH & INNOVATION (ES)
HORIZON-CL5-2021-D4-02-02 : Cost-effective, sustainable multi-functional and/or prefabricated holistic renovation packages, integrating RES and including re-used and recycled materials (Built4People)	HORIZON-IA	101079951	REHOUSE	Renovation packagEs for HOlistic improvement of EU's bUildingS Efficiency, maximizing RES generation and cost-effectiveness	FUNDACION CARTIF (ES)
HORIZON-CL5-2021-D4-02-03 : Strengthening European coordination and exchange for innovation uptake towards sustainability, quality, circularity and social inclusion in the built environment as a contribution to the new European Bauhaus (Built4People)	HORIZON-CSA	101079859	NEBULA	New European Bauhaus Unlocked through Built4People-endorsed Local Actions	DOWEL INNOVATION (FR)

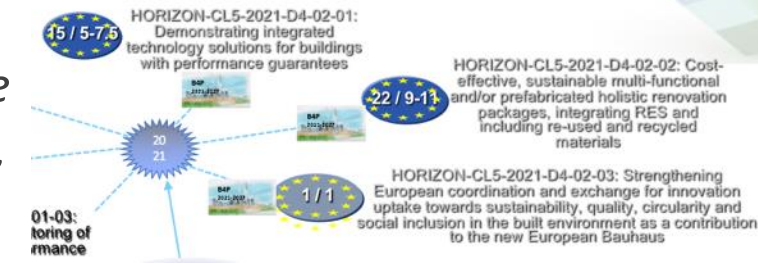


+ 1 new project (from Reserve list):

RE-SKIN (101079957)

Built4People
- Horizon
Europe
WP2021-2022
Main Focus
(1/2)

- *Highly energy-efficient and climate neutral EU building stock*
- *Addressing energy demand side & a more efficient use of energy as regards buildings and industry.*
- *Promoting an open strategic autonomy by leading the development of key digital and enabling technologies, sectors and value chains*
- **2021**

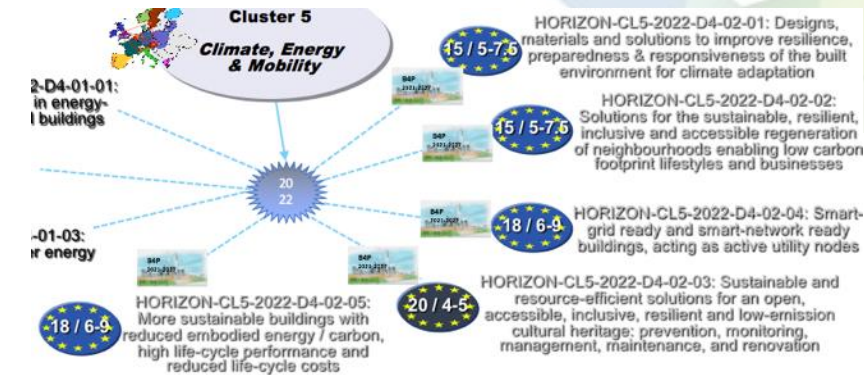


- Proven integrated technology solutions for performance guarantees and performance-based contracts to increase buildings energy performance
- Enhanced awareness of end users and capacity building of businesses on performance-based contracts + enhanced trust in guarantees of performance & related contracts
- Construction / renovation processes for sustainable multi-functional and/or prefabricated holistic renovation packages – demonstrating:
 - reduction of embodied energy and CO2 of renovation over LC
 - affordability of sustainable renovation and RES systems in buildings & multi-purpose (heating, cooling, electricity) renewable energy generation
 - improvement of insulation and air-tightness compared to standard renovation solutions
 - Faster uptake of EU-wide standards or certification of reused and / or recycled construction materials / products
 - *3 large-scale demonstration of the solutions in diverse geographical areas, with various local environmental, social, and economic conditions, addressing both residential and non-residential buildings*
- (CSA) support to the network of B4P Innovation Clusters



Built4People
- Horizon
Europe
WP2021-2022
Main Focus
(2/2)

- *Highly energy-efficient and climate neutral EU building stock*
- *Addressing energy demand side & a more efficient use of energy as regards buildings and industry.*
- *Promoting an open strategic autonomy by leading the development of key digital and enabling technologies, sectors and value chains*



• 2022

- Designs, materials and solutions (including digital interoperable tools) to improve resilience and climate proofing of the built environment (new and existing buildings) in a cost-effective and reliable manner - making use of natural, easy to manage, advanced, evolutive materials and technologies to combat the effects of global warming (cooling demand, heat island effects, etc.)
- Methods and solutions for the regeneration of neighbourhoods with focus on energy efficiency, sustainability, resilience, health, inclusiveness and accessibility, based on participatory planning processes and innovative (IT-based) decision-making procedures
- Innovative, sustainable, energy and resource-efficient solutions for the cost-effective improvement and preservation of cultural heritage built environment along all relevant aspects: inclusiveness, accessibility, resilience, environmental and energy performance
- Smart-grid ready and smart-network ready buildings – improving interoperability and synergies between electricity/energy carriers & buildings as flexible assets for grid/network management
- Sustainable buildings with reduced embodied energy / carbon, high LC performance and reduced life-cycle costs – with Mainstreamed affordable high life-cycle performance, and improved circularity of buildings in construction and renovation



Built4People
- Horizon
Europe
WP2023-2024
Main Focus

Acknowledgement: not an official view from B4P Partnership!

- Keep on the renovation needs, with more industrialised processes (for construction or renovation, as well as deconstruction / reuse) and a focus on circular renovation as well as principles of circular economy
- Improve the role / coordination of construction stakeholders value chains towards innovation in renovation
- Innovative design(s) and decarbonisation pathways for people-centric / people-inclusive new & renovated buildings
- Resilience of buildings towards changing climate / disruptive events
- A strong accent is continuously put on Digitalisation at every stage of the construction process - e.g.
 - BIM, DTs, Automation (including e.g. Drones, Robotics) to improve renovation & optimise maintenance in a twin transition (green & digital)
 - Increased use of LC data / data lakes to manage buildings, data validation / certification
 - Increased involvement of users in participative design, planning, management, renovation, of buildings and districts



Built4People - Horizon Europe WP- 2023



10 / 5 HORIZON-CL5-2023-D4-01-01:
Innovative cost-efficient solutions
for zero-emission buildings

9 / 4.5 HORIZON-CL5-2023-D4-01-02:
Future-proofing historical buildings for
the clean energy transition

8 / 4 HORIZON-CL5-2023-D4-01-03:
Interoperable solutions for positive energy
districts (PEDs), including a better
integration of local renewables and local
excess heat sources

6 / 3 HORIZON-CL5-2023-D4-01-04:
Thermal management and energy
optimisation of high energy demand
IT systems equipment in tertiary
buildings

25 / 12.5 HORIZON-CL5-2023-D4-01-05:
Innovative solutions for cost-effective
decarbonisation of buildings through
energy efficiency and electrification



Cluster 5
*Climate, Energy
& Mobility*

Legend



Funding (M€)

Open: 4 MAY 2023

Closed: 5 SEPT 2023



HORIZON-CL5-2023-D4-02-01:
Innovative uses of lifecycle data for
the management of buildings and
buildings portfolios



HORIZON-CL5-2023-D4-02-02:
Solutions for the identification of vulnerable
buildings and people-centric built environment,
and for improving their resilience in disruptive
events and altered conditions in a changing
climate



HORIZON-CL5-2023-D4-02-03: Demonstrate
built-environment decarbonisation pathways
through bottom-up technological, social and
policy innovation for adaptive integrated
sustainable renovation solutions



HORIZON-CL5-2023-D4-02-04:
Fast-tracking and promoting built
environment construction and renovation
innovation with local value chains



HORIZON-CL5-2023-D4-02-05:
Supporting the creation of an accessible
and inclusive built environment

Built4People - Horizon Europe WP- 2024

Open: 17 SEPT 2024

Closed: 21 JAN 2025



HORIZON-CL5-2024-D4-01-01:
Low-disruptive renovation processes using
integration of prefabricated solutions for
energy-efficient buildings



HORIZON-CL5-2024-D4-01-02:
Smart grid-ready buildings



HORIZON-CL5-2024-D4-01-03: Alternative
heating systems for efficient, flexible and
electrified heat generation in industry



Cluster 5
**Climate, Energy
& Mobility**

Legend



Funding (M€)



HORIZON-CL5-2024-D4-02-01:
Industrialisation of sustainable and
circular deep renovation workflows



HORIZON-CL5-2024-D4-02-02:
Robotics and other automated solutions for
construction, renovation and maintenance in a
sustainable built environment



HORIZON-CL5-2024-D4-02-03:
BIM-based processes and digital twins for
facilitating and optimising circular energy
renovation



HORIZON-CL5-2024-D4-02-04:
Design for adaptability, re-use and
deconstruction of buildings, in line with the
principles of circular economy



HORIZON-CL5-2024-D4-02-05:
Digital solutions to foster participative
design, planning and management of
buildings, neighbourhoods and urban
districts

Built Environment - LIFE Programme



- **LIFE Clean Energy Transition (CET) sub-programme**
 - Support the delivery of EU policies in the sustainable energy field, in particular:
 - the European Green Deal
 - the Energy Union (2030 energy and climate targets)
 - the European Union's 2050 long-term decarbonisation strategy
 - LIFE CET budget of ≈EUR 1 billion over 2021-2027 – targeted at:
 - breaking market barriers that hamper the socio-economic transition to sustainable energy;
 - engaging multiple small and medium-sized stakeholders, multiple actors including local and regional public authorities and non-profit organisations, as well as consumers
 - 2022 – examples of topics targeting construction/Built Env.:
 - **TOPIC ID: LIFE-2022-CET-BUILDPERFORM:** *topic specifically dedicated to energy performance and smart readiness of buildings*
 - **TOPIC ID: LIFE-2022-CET-DEEPRENO:** *topic addressing challenges related to the energy performance of the European building stock, e.g. on building renovation*
 - 2023 - LIFE Calls for proposals 2023 published ≈Mid-April @ https://cinea.ec.europa.eu/programmes/life/life-calls-proposals_en
And calls for LIFE CET sub-programme published ≈Mid-May

Built4People Innovation Cluster

(under elaboration)

1/7



- Shaping and maturing innovation clusters in European countries:
 - ...for a widespread change of practices in the construction and renovation of the built environment as defined in the B4P objectives
- An innovation cluster (IC):
 - is a local or regional socio-technical ecosystem bringing together actors of the built environment sector
 - where pools of capital, tacit knowledge, expertise and talent foster
 - the development of new innovations
 - their demonstration (e.g. how innovations are implemented, demonstrating their added value, etc.)
 - their market uptake (regional, national or beyond)
 - is based on an existing national/regional cluster organisation or a grouping of various organisations of this type (a 'meta-cluster')
 - has both
 - a geographic focus
 - a focus on one or more SRIA topics

Built4People
Innovation
Cluster
(under elaboration)
2/7



- A Built4People Innovation Cluster (B4PIC):
 - a group of innovation-driven stakeholders, typically formed by one or two local/regional cluster(s), that engage in a maturing process to foster EU-scale, multidisciplinary and sustainable innovation in the Built Environment
 - this process is supported and monitored by the B4P Partnership partners (ECTP and/or WGBC)
- B4PIC address, as a group and on a negotiated timeline, the following six dimensions / B4PIC success factors:
 - whole value chain
 - cross-sectoral
 - multi-objectives
 - locally anchored with national and European outreach
 - cross-border
 - access to testbeds and demonstration spaces

Built4People Innovation Cluster

(under elaboration)

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- The B4P network is composed of the B4PICs that have formally engaged in the B4P maturing process (i.e. signed the Charter), assures the exchange of good practices and fosters the collaboration between B4PICs
- The Charter:
 - is a brief document presenting the objective of the Charter signature, including maturity defined by the Innovation Cluster on the number of dimensions achieved at signing, and/or to be achieved according to a given timeline
 - presenting the objective of the Charter signature, by clarifying and aligning expectations
 - describing the various engagements from the clusters under the form of a list of actions to be undertaken on their side

The Charter is signed when a cluster becomes a member of the network of B4P Innovation Clusters (network of B4PICs)

Built4People Innovation Cluster

(under elaboration)

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The Charter sets out the basic requirements for a three-tiers membership:

- **Prospective B4PIC** (candidate, *optional status*): a cluster has expressed interest and is exploring becoming a B4PIC, in relationship with the B4P Partnership
- **Emerging B4PIC** (Stage 1): a cluster has applied and been accepted (charter is signed) on the basis of a commitment in the charter to progress towards required maturity (but is not yet meeting these minimum requirements)
- **Established B4PIC** (Stage 2): an accepted B4PIC has demonstrated it meets the required maturity level in the defined timeline, as agreed in the charter the IC has signed.

Built4People Innovation Cluster

(under elaboration)

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B4P Innovation Clusters network - value proposition

**INCREASE VISIBILITY IN
HIGH-LEVEL EUROPEAN
NETWORKS**

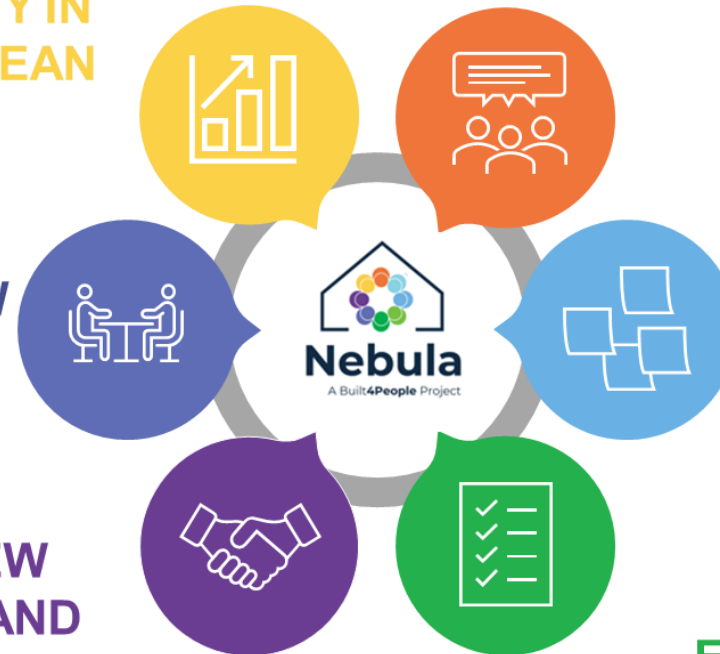
**MEET WITH OTHER
NATIONAL
CLUSTERS**

**TAKE A BROADER
APPROACH TO
RESEARCH AND
INNOVATION**

**BENEFICIATE FROM NEW
SERVICES TO ENGAGE
MEMBERS**

**ATTRACT NEW
RESOURCES AND
FUNDINGS**

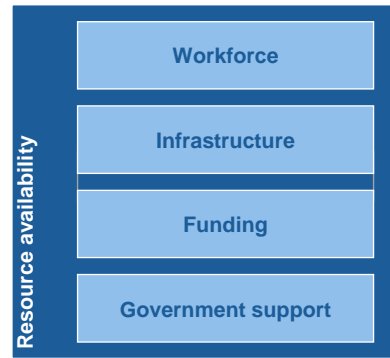
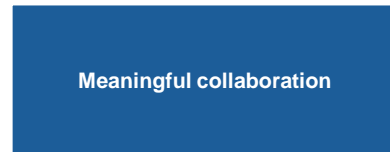
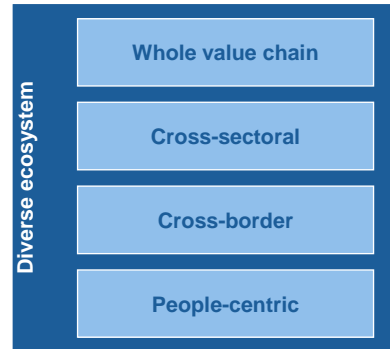
**COMMUNICATE KEY
MESSAGES TO THE
EUROPEAN COMMISSION**



Built4People Innovation Cluster (under elaboration) 6/7



Impact drivers



Definition of high impact contribution

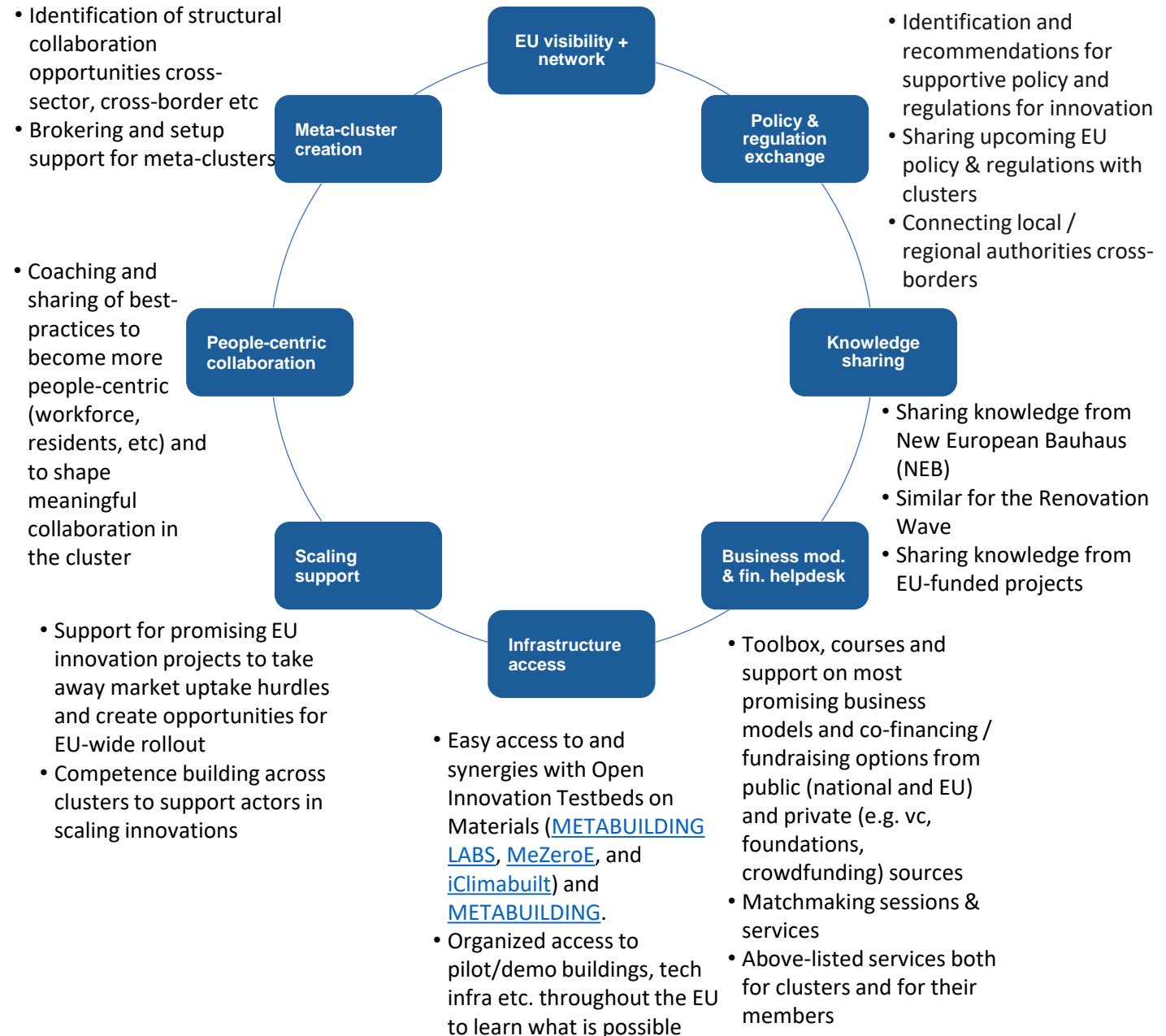
- All value chain players are represented: academic & industrial innovators, architects, contractors, planners, local authorities, developers, investors, end user associations. Ample focus on SMEs.
- There are anchors for and meaningful exchanges with other sectors, e.g. additive manufacturing, ICT, nature-based solutions, and others related to the new Bauhaus
- There are ongoing relationships, rich exchanges, and partnerships with clusters in other regions / Member States to stimulate innovation and scaling
- Residents and construction workers participate in priority setting, innovation development and other decision-making and brainstorming.
- Goal-guided & well facilitated exchanges that engage key stakeholders, build trust, connections, collaborations, and stimulate flow of ideas, knowledge, and opportunities. E.g. personalized messages, thematic groups / brainstorm, on-site visits, hackathons, joint projects, online platforms, co-working, social mingling, job hopping (no spamming to hit communication KPIs)
- Well-trained workforce including in SMEs. Creation of new jobs. Cluster is a magnet for innovation talent and business leadership. Cluster provides training & knowledge sharing.
- Easy access to test-beds, demo-spaces, pilot buildings, living labs, training facilities, commercial buildings, transport infrastructure, tech infra. Generalise learnings beyond unique test cases.
- Sustainable funding model for the innovation cluster ensuring longevity
- Innovation ideas get help and find it easy to get funding from venture capital, philanthropic foundations, government, banks
- Cluster works with local and national authorities for simplified access to their buildings/infra, flexible adaptation of building standards, zoning regulations; export support; tax cuts and grants
- There is a widely agreed theme/core competency and a roadmap for development for the cluster, developed with high participation from stakeholders (not just vested interests).
- A young and dynamic, risk-seeking mindset, through involvement of start-ups and younger generation professionals, residents and workers
- A focus on going beyond research and help innovations scale by supporting market/business development to respond to market demand (focus on pull, not push)

Built4People Innovation Cluster (under elaboration)

7/7



• Enhanced visibility and networking among all B4P ICs, their members, EU funded projects, EU / national /local policy makers, clusters in related fields, and media.



Built4People Innovation Cluster – *The Roadmap*

2025-2028

**Minimum 10-15 fully mature B4P
Innovation Clusters
by 2028**

2023-2025



Test the added value of B4PIC with 'test clusters'



Select additional 'follower clusters'



Provide 'maturity push' services to these 5-7 clusters



Elaborate replication plan



Involve OITB & EDIH to support B4PICs network

Continuous support to push the maturity of new clusters



Building blocks to be created by the project

Building blocks to be created later by the B4P partnership



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