Built4People (B4P) Partnership (Co-Programmed)

Introduction to the Built4People (B4P) Co-Programmed Partnership

Alain ZARLI

ECTP Secretary General

B4P Management Team

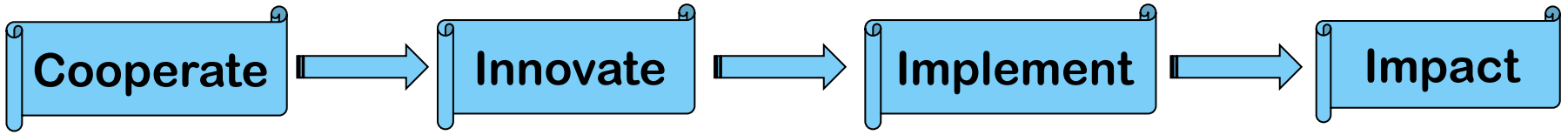
October 2022

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
- **147** 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

ENERGY EFFICIENT BUILDINGS
AN ECTP COMMITTEE

MATERIALS SUSTAINABILITY
AN ECTP COMMITTEE

HERITAGE REGENERATION
AN ECTP COMMITTEE

BUILT FOR LIFE
AN ECTP COMMITTEE

DIGITAL BUILT ENVIRONMENT
AN ECTP COMMITTEE

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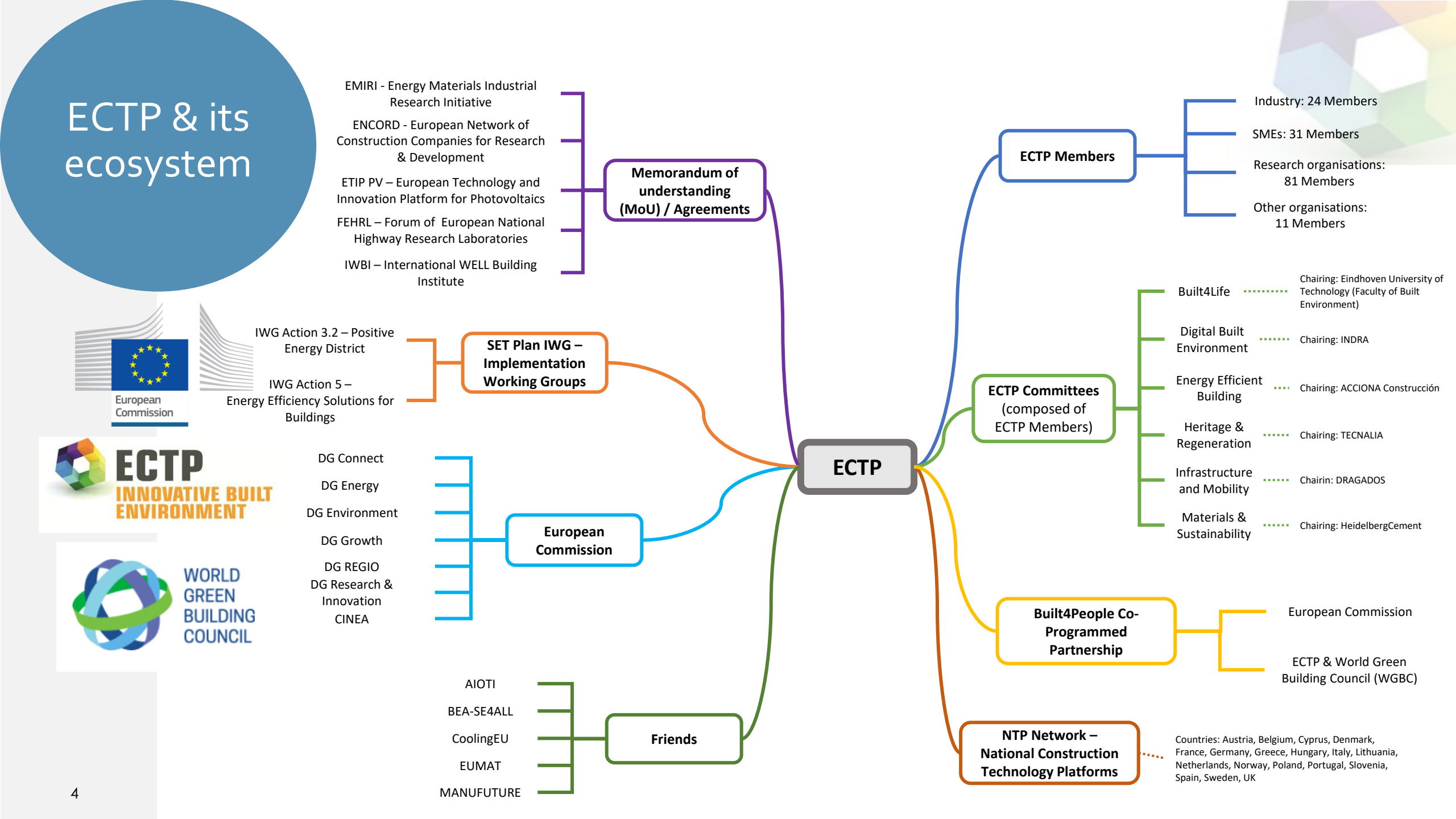
ECTP
INNOVATIVE BUILT ENVIRONMENT

WORLD GREEN BUILDING COUNCIL

ECTP & its ecosystem



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 and Horizon Europe 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

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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:

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

Specific level
Outcomes

Operational level
Resources & actions

Sustainable Communities with affordable and clean energy. EU 2030 energy targets, (SDG 7, 11, 13)

EU technological sovereignty & materials security

Competitive industry and sustainable production (SDG 9,12)

Climate Action and sustainable consumption (SGD 12, 13)

Healthy built environment and preserving cultural heritage

Decarbonised construction & renovation

Increased Demand and uptake of low carbon solutions

Implementation of EU sustainable regulation frameworks

Increase of skilled workforce in the entire value chain

Induce lasting Improved quality of life for all in buildings

Ambitious Implementation of Renovation Wave action plan

80% reusable or recyclable materials

Start-ups & SMEs demonstrating circular business models

Tools for training & certifications

Cost-effective high-quality renovation packages delivering healthy buildings

Large scale demonstrators

Actions to foster behaviour changes

Synergies with EU instruments targeting climate-neutrality of Europe

Collaborative projects generating science-based data, knowledge and tools

Creation of Construction Innovation clusters (10-15 in EU by 2027)

Co-creation process to ensure a user-driven approach

Built4People - Summary of objectives in MoU

3 general objectives		10 specific objectives		10 operational objectives	
GO1	**Generate holistic innovation in the built environment towards sustainability** by 2027/28	SO1	Develop holistic solutions that break "technological silos" in built environment, lower carbon and resource intensity and mainstreaming LCA-based approach	OO1	Cost-effective multi-functional and/or prefabricated holistic renovation packages
		SO2	Develop solutions that enable/increase interactions of building with networks or increase sectors integration	OO2	Set of smart-grid ready and smart-network ready buildings acting as active utility nodes
GO2	**Revitalise the sector through decarbonisation and sustainability transition** by 2030	SO3	Demonstrate profitability and job creation potential of new sustainable and circular business models	OO3	Tools and applications to facilitate a life cycle-based approach
		SO4	Demonstrate sector decarbonisation pathways across all the players in the value chain	OO4	New design models for buildings, infrastructure, public spaces and efficient and resilient cultural heritage
		SO5	Demonstrate industrialization potential and economies of scale, as well as applicability to a large share of the EU buildings stock/infrastructure	OO5	New protocols and approaches to zero-carbo construction and retrofitting and circular and bio-based economy
		SO6	Develop strategies, methods and tools to adapt skills, culture and way of working to the opportunities arising from the new solutions	OO6	New services from home and in the community, incl. solutions for healthier indoor and outdoor environment
GO3	**Induce lasting behavioral change towards sustainable living** by 2030	SO7	Engage the whole value chain as well as policy makers and civil society in the design, development and implementation of the new solutions	OO7	New solutions and tools for public and private (green) as well as new business/financing/risk mgt models
		SO8	Orientate and demonstrate innovation to achieving outcomes for users in terms of functionality, comfort, convenience, accessibility, health etc	OO8	Solutions for smart and responsive buildings exploiting an improved knowledge of user experience (BaaS)
		SO9	Demonstrate safeguarding and promotion of architectural elements that represent cultural / historical value and heritage	OO9	EU-wide open databases and digital Data Management Platforms on the performance of the built environment
		SO10	Develop strategies, solutions and tools to reduce time to market of the new technologies	OO10	Innovation clusters /ecosystems integrated with the construction value chain and other sectors

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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

(Invitation as observers)

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*

(operational alignment between management teams where relevant)

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, Stephen Richardson, Laura Pallares

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Built4People Partnership Board

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

2022

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Built4People States Representatives Group (SRG)

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

- SRs invited as <u>observers</u> in the B4P PB (2022):
  - **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
  - 19 confirmed countries (@01/10/2022)
    - *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
  - Feedback from delegates quite positive

Built4People - Summary of KPIs in MoU

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KPI's on general objectives			KPI's on specific 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	SO1 SO2 SO3 SO4
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	SO5 SO6 SO7 SO8
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	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 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
      - …

IWG5 BUILDINGS

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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
- Decarbonasition 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

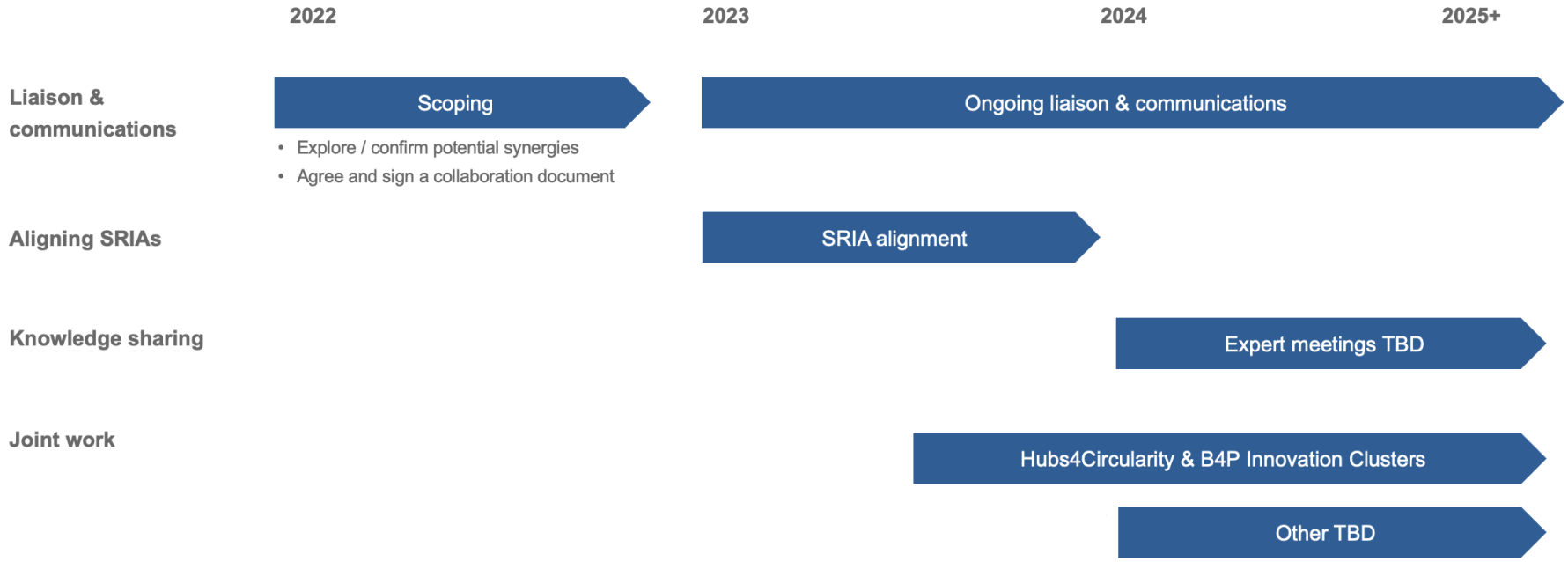
Embodied energy/carbon: reduce energy/carbon embodied in construction materials

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

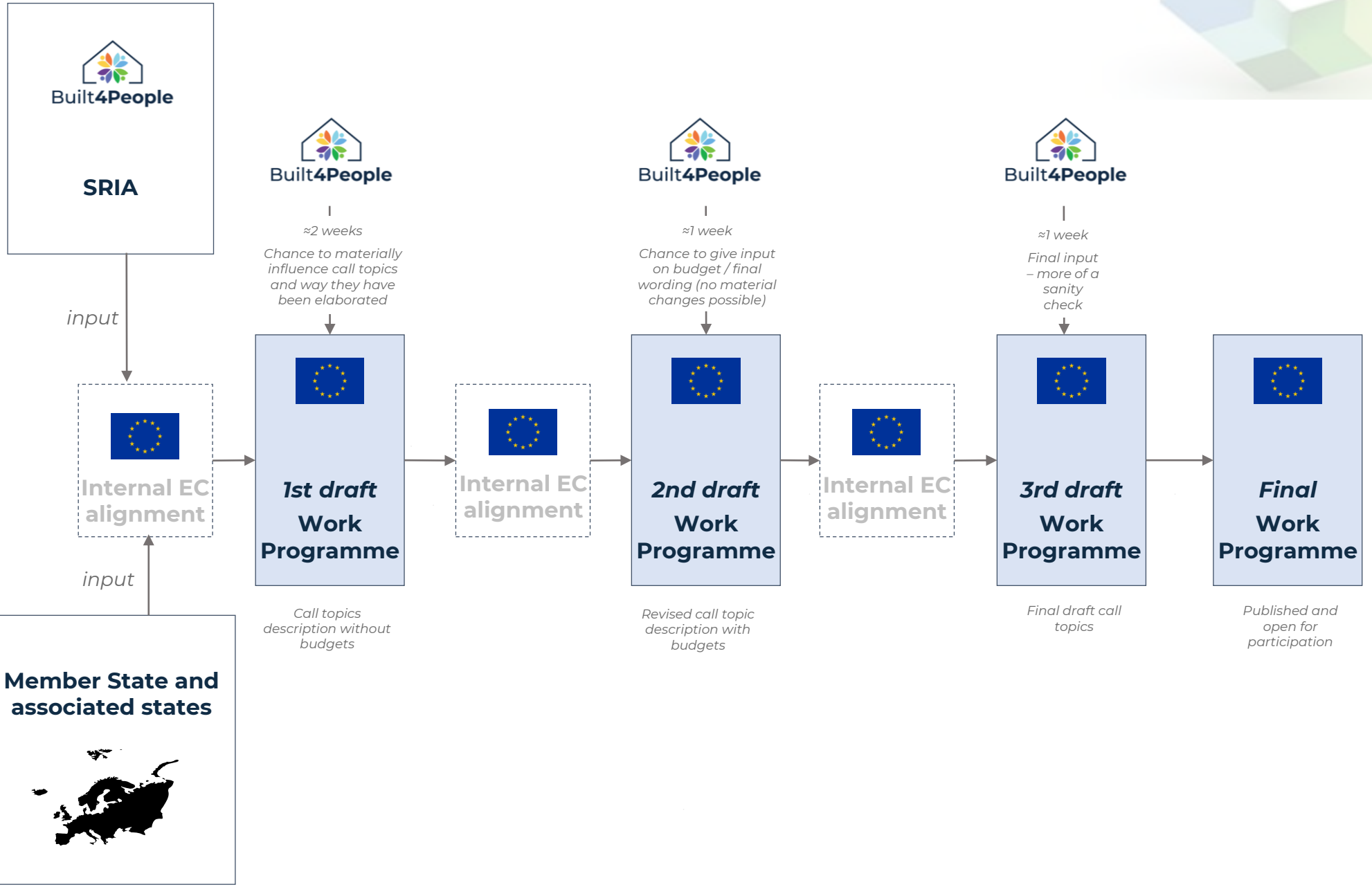
Circularity and new materials: re-use, re-cycle, up-cycle waste streams from both sectors

Industrial Urban Symbiosis: collaborations between hubs4circularity and innovation clusters

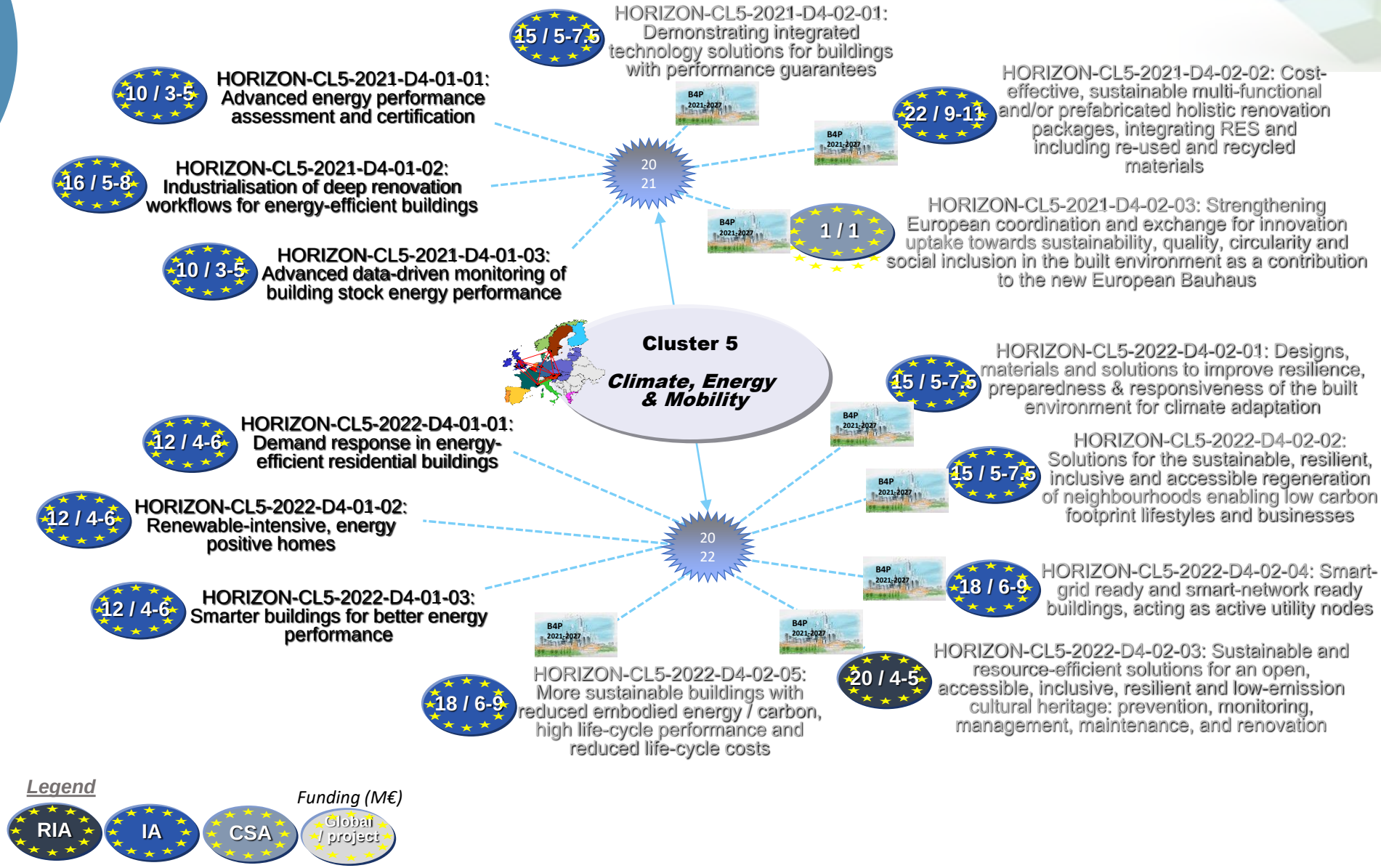
Collaboration plan



Built4People - Horizon Europe WP preparation

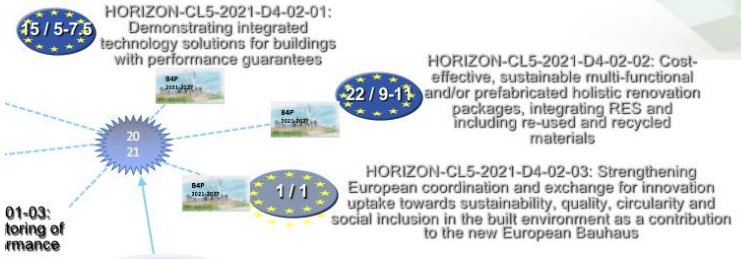


Built4People - Horizon Europe WP2021-2022



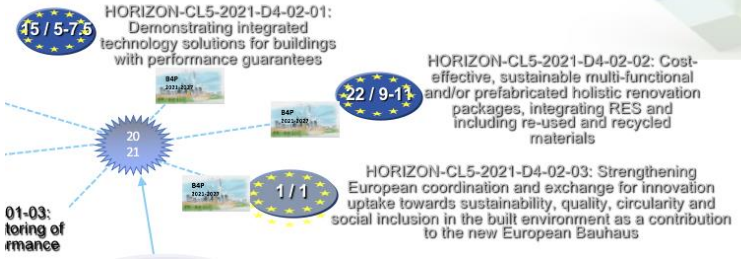
Built4People - Horizon Europe WP2021-2022 *Funded projects (2021 topics)*

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)



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 <u>performance guarantees and performance-based contracts</u> to increase buildings energy performance
  - Enhanced <u>awareness of end users and capacity building of businesses</u> on performance-based contracts + enhanced trust in guarantees of performance & related contracts
  - Construction / renovation processes for sustainable multi-functional and/or prefabricated <u>holistic renovation packages</u> – 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

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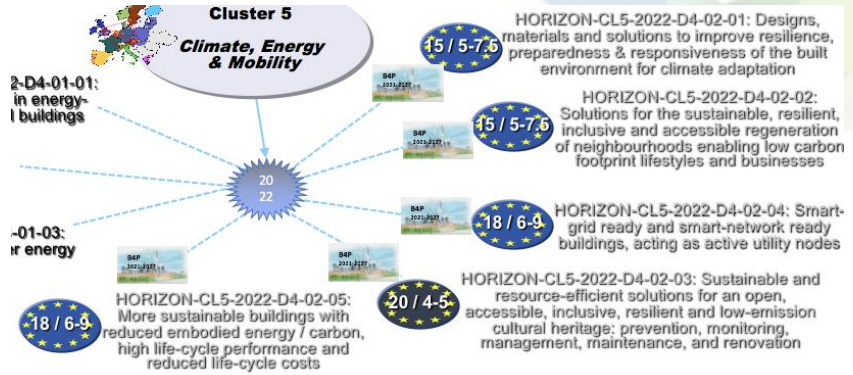
Built4People - Horizon Europe WP2021-2022 ***Main Focus (2/2)***

- *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

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Built4People - Horizon Europe WP2023-2024 ***Anticipated 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

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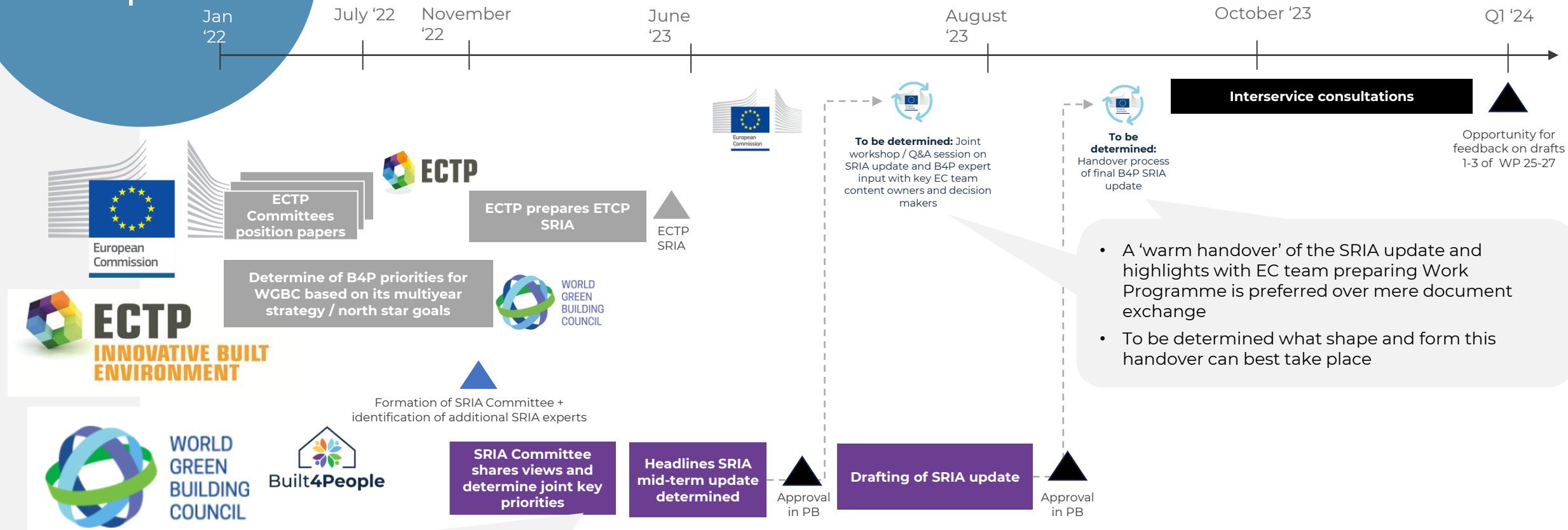
Built4People - Fine-tuning the B4P SRIA

Acknowledgement: waiting for agreement by the B4P Partnership Board



- A 'warm handover' of the SRIA update and highlights with EC team preparing Work Programme is preferred over mere document exchange
- To be determined what shape and form this handover can best take place

- SRIA Committee of 4-8 B4P Partnership Board members lead the drafting and coordination of input for a B4P SRIA fine-tuning – **in preparation of WP '25-27**
- Update along four thematic lenses: climate neutral built assets, circular and climate-neutral construction, people centricity and renovation
- SRIA Committee may be supported by additional experts (other PB member or other experts in the ECTP and WGBC networks)

Built4People Innovation Cluster
(under elaboration)
1/3

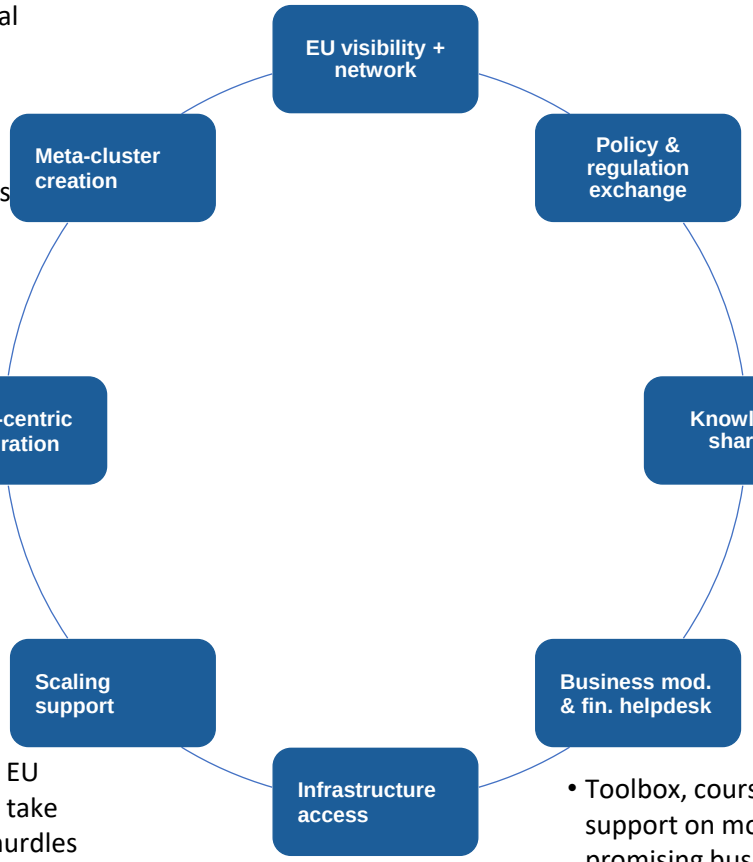
- Shaping and maturing Innovation clusters in European countries
  - …for a widespread change of practices in the construction and renovation of the built environment as defined in the B4P objectives
- An innovation cluster:
  - is to be a local or regional ecosystem bringing together actors of the built environment ecosystem
  - where pools of capital, expertise and talent foster the development of new innovations, their demonstration and market uptake
  - can form based on an existing national/regional cluster organisation or a grouping of various existing such organizations (a ‘meta-cluster’)
  - has both a geographic focus and a focus on one or more SRIA topics
- Potentially signing a charter:
  - the charter clarifies and aligns expectations
  - It is signed when a cluster becomes a member of the network of B4P Innovation Clusters

Built4People Innovation Cluster
(under elaboration)
2/3

Impact drivers		Definition of high impact contribution
Diverse ecosystem	Whole value chain	• All value chain players are represented: academic & industrial innovators, architects, contractors, planners, local authorities, developers, investors, end user associations. Ample focus on SMEs.
	Cross-sectoral	• 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
	Cross-border	• There are ongoing relationships, rich exchanges, and partnerships with clusters in other regions / Member States to stimulate innovation and scaling
	People-centric	• Residents and construction workers participate in priority setting, innovation development and other decision-making and brainstorming.
Meaningful collaboration		• 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 / brainstorms, on-site visits, hackathons, joint projects, online platforms, co-working, social mingling, job hopping (no spamming to hit communication KPIs)
Resource availability	Workforce	• 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.
	Infrastructure	• 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.
	Funding	• 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
	Government support	• 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
Results focus	Theme & Roadmap	• 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).
	Innovation culture	• A young and dynamic, risk-seeking mindset, through involvement of start-ups and younger generation professionals, residents and workers
	Scaling focus	• 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) 3/3

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



- Identification of structural collaboration opportunities cross-sector, cross-border etc
- Brokering and setup support for meta-clusters

- Identification and recommendations for supportive policy and regulations for innovation
- Sharing upcoming EU policy & regulations with clusters
- Connecting local / regional authorities cross-borders

- Coaching and sharing of best-practices to become more people-centric (workforce, residents, etc) and to shape meaningful collaboration in the cluster

- Sharing knowledge from New European Bauhaus (NEB)
- Similar for the Renovation Wave
- Sharing knowledge from EU-funded projects

- Support for promising EU innovation projects to take away market uptake hurdles and create opportunities for EU-wide rollout
- Competence building across clusters to support actors in scaling innovations

- Easy access to and synergies with Open Innovation Testbeds on Materials (METABUILDING LABS, MeZeroE, and iClimabuilt) and METABUILDING.
- Organized access to pilot/demo buildings, tech infra etc. throughout the EU to learn what is possible

- Toolbox, courses and support on most promising business models and co-financing / fundraising options from public (national and EU) and private (e.g. vc, foundations, crowdfunding) sources
- Matchmaking sessions & services
- Above-listed services both for clusters and for their members

Built4People Contact details

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