

Built4People
(B4P)
Partnership
(Co-Programmed)



Towards a Smart and Decarbonised Future for European Buildings: ECTP perspective

Anastasiya Yurchyshyna

Project Officer

ECTP

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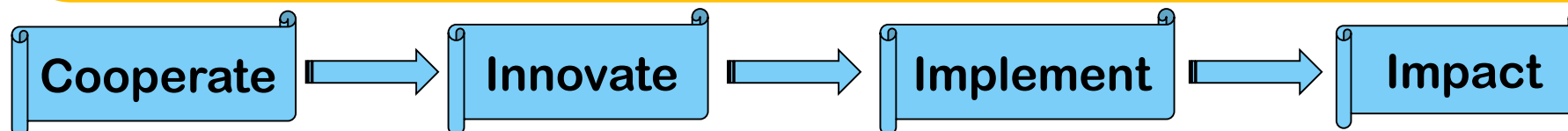
ECTP in a nutshell



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-organisations 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



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

MATERIALS SUSTAINABILITY
AN **ECTP** COMMITTEE



ECTP
INNOVATIVE BUILT
ENVIRONMENT



HERITAGE REGENERATION
AN **ECTP** COMMITTEE

BUILT FOR LIFE
AN **ECTP** COMMITTEE



DIGITAL BUILT ENVIRONMENT
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 Environment 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

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.

- European partnership under Horizon Europe aiming to catalyse the transition to a people-centric, climate-neutral, sustainable and smart built environment

Scope:

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

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 environment
- 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 - 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 behavioural 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 industrialisation 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 Contact details



info@built4people.eu

<https://built4people.eu>

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



www.ectp.org

Alain Zarli
Secretary General
secretariat@ectp.org

Anastasiya Yurchyshyna
Project Officer
anastasiya.yurchyshyna@ectp.org

<https://www.worldgbc.org/our-regional-networks/europe>



Stephen Richardson
**Europe Regional Network
Director**
srichardson@worldgbc.org

Laura Pallares
**Head of Projects Europe
Regional Network**
lpallares@worldgbc.org

SmartBuilt4EU highlights

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 956936.



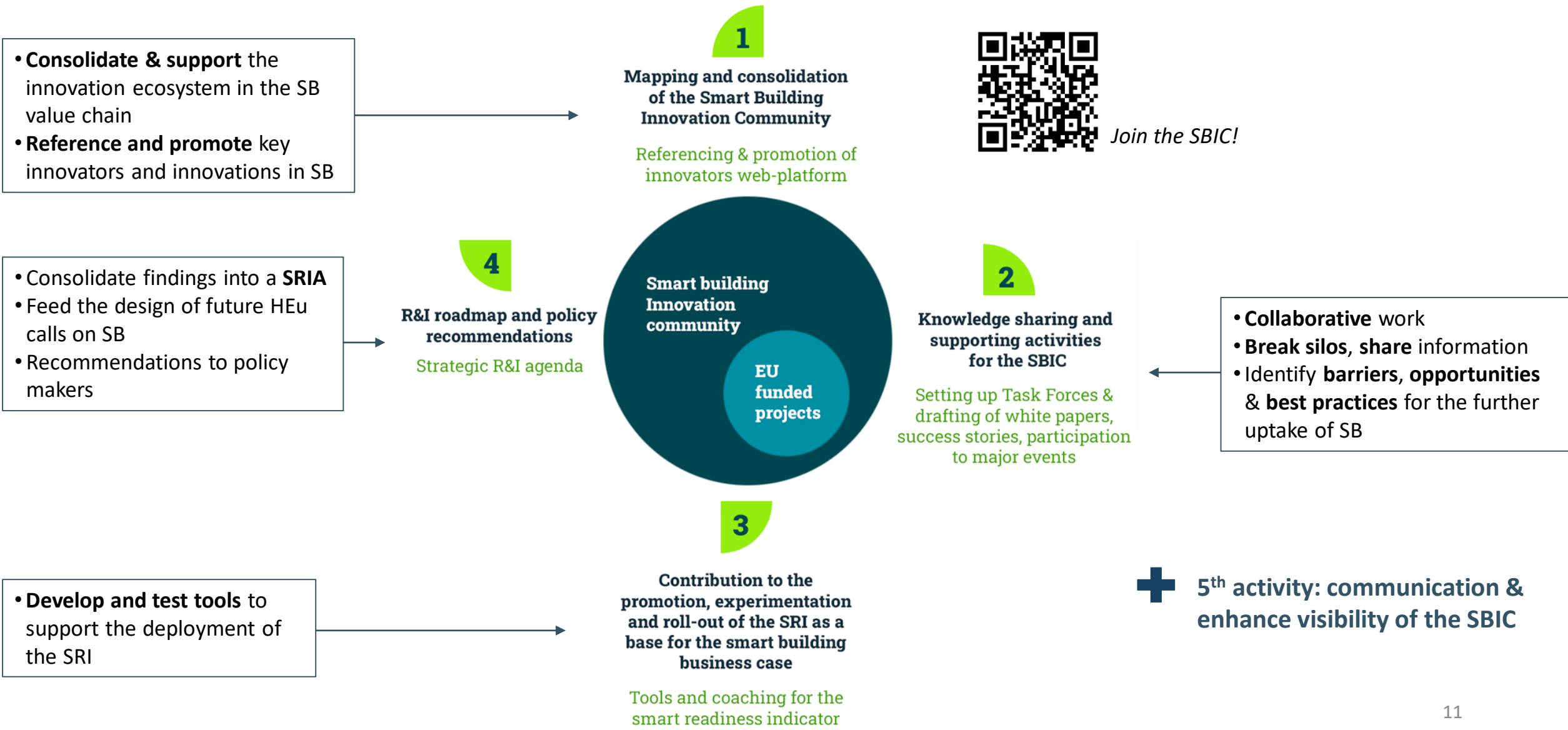
SmartBuilt4EU in a nutshell

Support to the coordination of European smart buildings innovation community

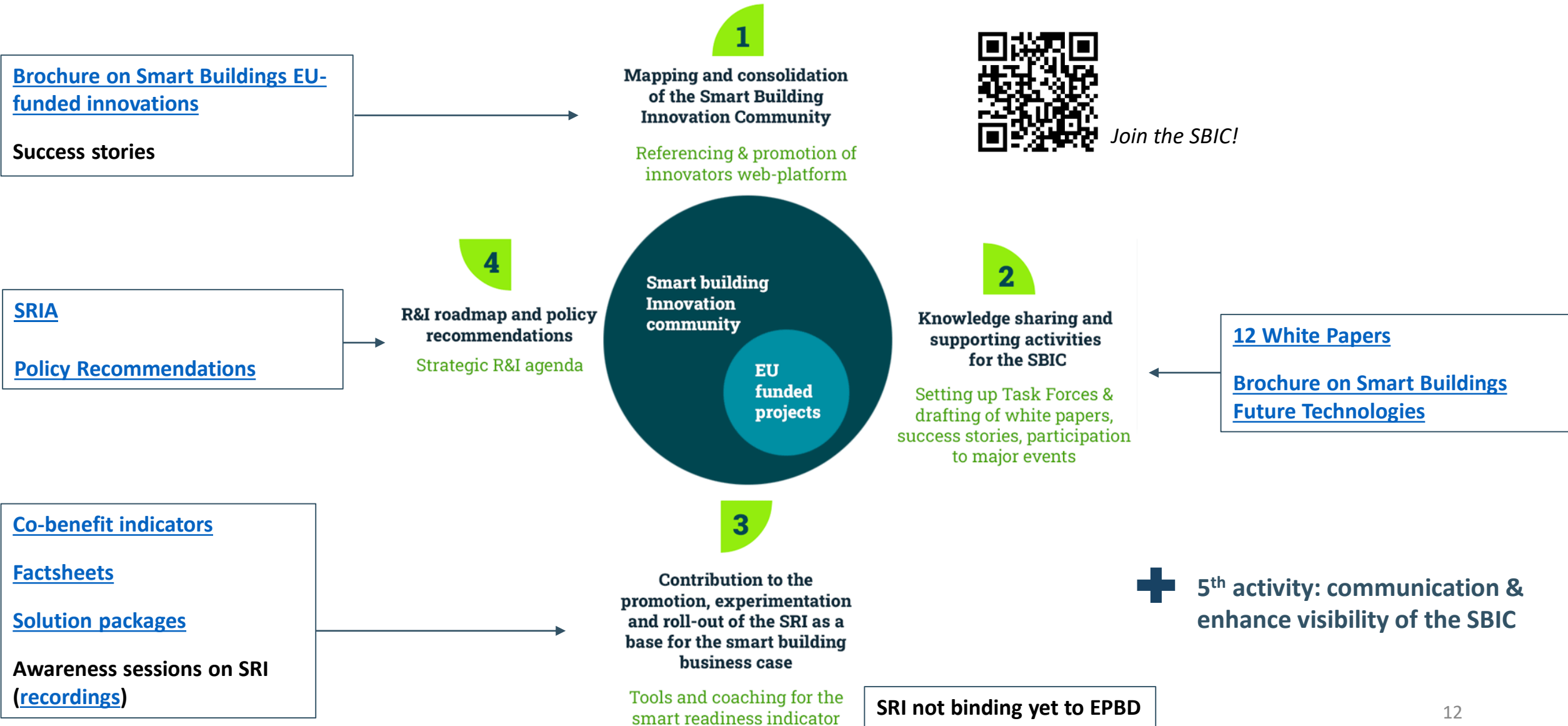
- *Call: Building a low-carbon, climate resilient future: secure, clean and efficient energy*
- 01/10/2020 – 31/03/2023
- Duration: 30 months
- SmartBuilt4EU has supported the emergence of a smart buildings market in Europe. In addition to promoting exchanges between innovators, the project has coordinated a large stakeholder's community in promoting and testing the Smart Readiness Indicator (SRI).



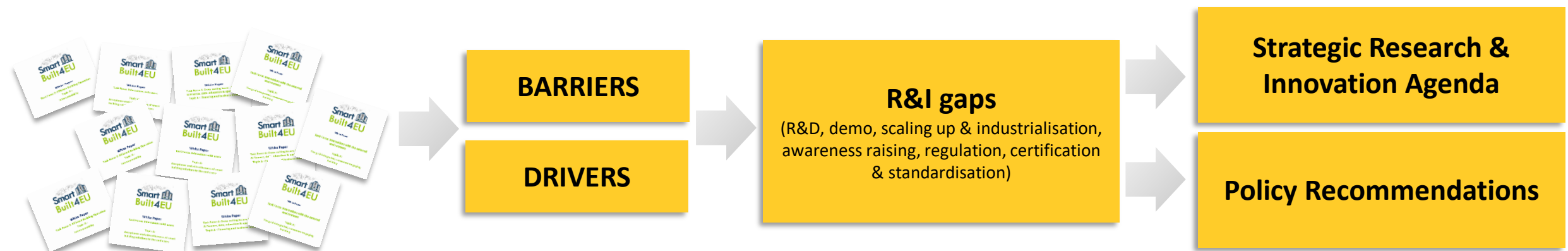
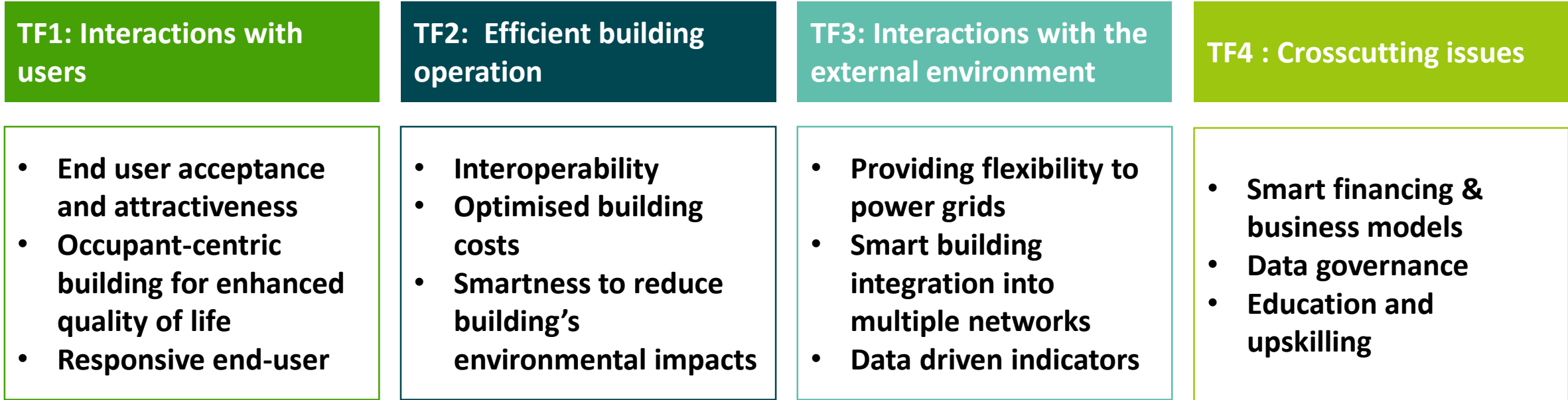
Main objectives & activities



Key results and outcomes



12 White papers – 4 Task forces



White papers available [here](#).

SRIA – overview of topics covered

- 1 Interoperability in buildings
- 2 Interoperability for grid flexibility
- 3 Innovative Business Models
- 4 Testing Facilities And Living Labs
- 5 Co-benefits
- 6 Life Cycle Environmental Impacts
- 7 Making Better Use Of The Data
- 8 Supporting Increased Public Awareness
- 9 Dataprivacy And Cybersecurity
- 10 Support Policy Developments

Policy Recommendations – overview of topics covered

- 1 smart buildings data governance
- 2 open data culture/framework
- 3 dynamic building certificates (e.g. logbook)
- 4 national or local regulations supporting the smartening of the building stock
- 5 interoperability of smart solutions and flexibility of smart buildings
- 6 SRI implementation support
- 7 labelling of devices and building certification
- 8 regulatory sandboxes
- 9 (green) public procurement
- 10 upskilling

Thank you for the attention!

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