

*Opportunity for OITBs to increase innovation and competitiveness in
the EU construction sector*

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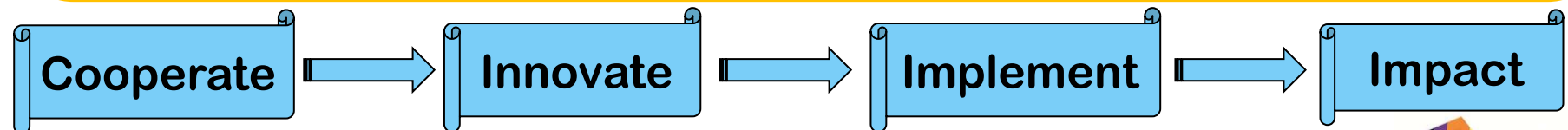
ECTP
**INNOVATIVE BUILT
ENVIRONMENT**

ECTP in a nutshell

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

Paramount challenges such as **energy, climate change, efficiency & more generally sustainability** prove to become of utmost importance for the **Built Environment (buildings, infrastructures, utility networks...)** and **Construction sector** and need to be tackled within an **integrated approach**

- ECTP - an *AISBL* legal entity – based in Brussels
- It gathers **145+** member-organizations from the Construction sector and other sectors from the whole supply chain of the **Built Environment**.
- Its main mission is to develop new **R&D&I** strategies to improve **competitiveness**, meet **societal needs** & take up **environmental challenges**.



Integrated
innovation in
Construction is
an absolute
necessity

Context, industrial & technological trends

- **The built environment and related industries** must evolve towards carbon neutrality (resource efficiency, circularity, sobriety in usage)
- **Buildings as proactive part of the city:** interactive, re-natured **districts, infrastructures** integration, valorisation of **cultural heritage**
- **Ageing infrastructures** must evolve & adapt to new uses and hazards → *Resilience*
- **Biobased and advanced materials** must be integrated to achieve more resilience, comfort, health, safety, resource efficiency, and carbon neutrality.
- The **industrial (r)evolution** is still to be implemented, by integrating mature technologies (AI, automation, etc) into all processes from design to manufacturing and construction
- **Digitalisation** is to be generalised in the construction processes and in the built environment

OITB
Why?

Revisiting innovation ecosystem for Construction in Europe

*≈98% **SMEs** in the Construction industry → a key target!*

Still the Construction generate far more physical goods than software / apps (≈85% of deep tech SMEs developing physical items)

- Help SMEs to demonstrate their innovative technologies
- Trans-national knowledge and technology transfer
- SME-oriented new types of innovation services
- Knowledge of European/National/Regional programmes for business innovation
- Production & use of comprehensive, comparable data sets and a common data repository that may inform EU- & European countries-wide policies at all levels

OITB
What for?

Generating an IMPACT enhancement...

- Need for revisited Construction innovation ecosystem:
 - Nurture 'deep tech' and innovation, and speed development and scale-up of innovation across Europe – leading to twin green and digital transitions
 - Unlock Construction innovation potential with deep tech innovation:
 - creating cutting-edge solutions across the continent
 - seeking solutions to the most pressing societal and economic challenges.
- Take-up of environmental technologies
- Eco-innovation **networks** and **clusters**
- New and integrated approaches i.e environmental management, environmental-friendly design off products, processes and services
- Co-investment / de-risking with focus on eco-innovation

OITB
In which R&I
framework?

Sector-specific innovation: clustering is KEY!

- ECTP intends to capitalise on clustering to benefit its members and in particular SMEs
 - **Common collaborative environment** between clusters representing countries/regions and/or sectors
 - Rapid access to references/project outcomes of cluster members
 - Facilitate technology and market watch across countries and sectors
 - Share opportunities with other clusters (e.g. focused on IT, NBS, AM, etc.) → Cross-sectorial / multi-disciplinary approach
- A unique environment for OITB deployment!



Cluster Management



The network of National Construction Technology Platforms has the role to promote synergies between initiatives of the NTPs, identifying potential collaborations between members in different countries.

Starting with 13 countries followed by all the others:



OITB How?

Providing with a new vision for innovation development & roll-out

- At the centre of a complex innovation ecosystem:
 - scientists, engineers, entrepreneurs, academic institutions, venture capital and big enterprises
 - as well and customers, local authorities, etc.
- Importance of delivering an OITB common structured process through a one-stop shop:
 - for evaluation & assessment of innovations
 - and for all European innovation ecosystem players → clustering!
- Supporting deep tech innovation through:
 - Experimentation spaces and facilities that could be utilised in collaboration with all innovative Construction SMEs / deep tech SMEs
 - Regulatory sandboxes helping to keep up with the rapid evolution of technology / allowing deep tech breakthroughs to be evaluated and then marketed in the EU