

ECTP Conference 2021

December 3, 2021 (8:40 – 10:15 CET)

hybrid meeting



DIGITAL BUILT ENVIRONMENT
AN **ECTP** COMMITTEE

ECTP's DBE Committee Position Paper

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Main objectives of the document

The Position Paper aim is to establish the foundations of the European digitalization strategy towards a digital built environment putting special focus on the digitalization process (including SME's since it considers that SME's are at the core of the construction sector and have a critical role) in the future of the sector.

The Position Paper undertakes the following lines:

- **Scope and Approach:** ECTP Long term vision towards 2030, transversal link with other ECTP Committees and engagement with 3rd parties and programmes.
- **Priority topics:** Defined based on the Identification of the current barriers and limitations in the introduction of digital technologies and techniques.
- **Implementation:** Action plan to create a global European ecosystem strategy , engagement with 3rd parties and expected outcomes and impacts in HE (e.g. Built4People).

ECTP 2030 long-term vision

Establishing the foundations for a twin-transition

Our proposal

Main enablers for a competitive
Construction eco-system

-  Generalised Digitalised platforms and Apps for construction projects
Seamless integration of innovation (materials, components, systems)
-  Engaging all actors in sustainable development and impact
-  Trained and skilled labour force & high quality employment and working environment
-  Mobilising the financial resources for massive investments in knowledge

New Value Chain

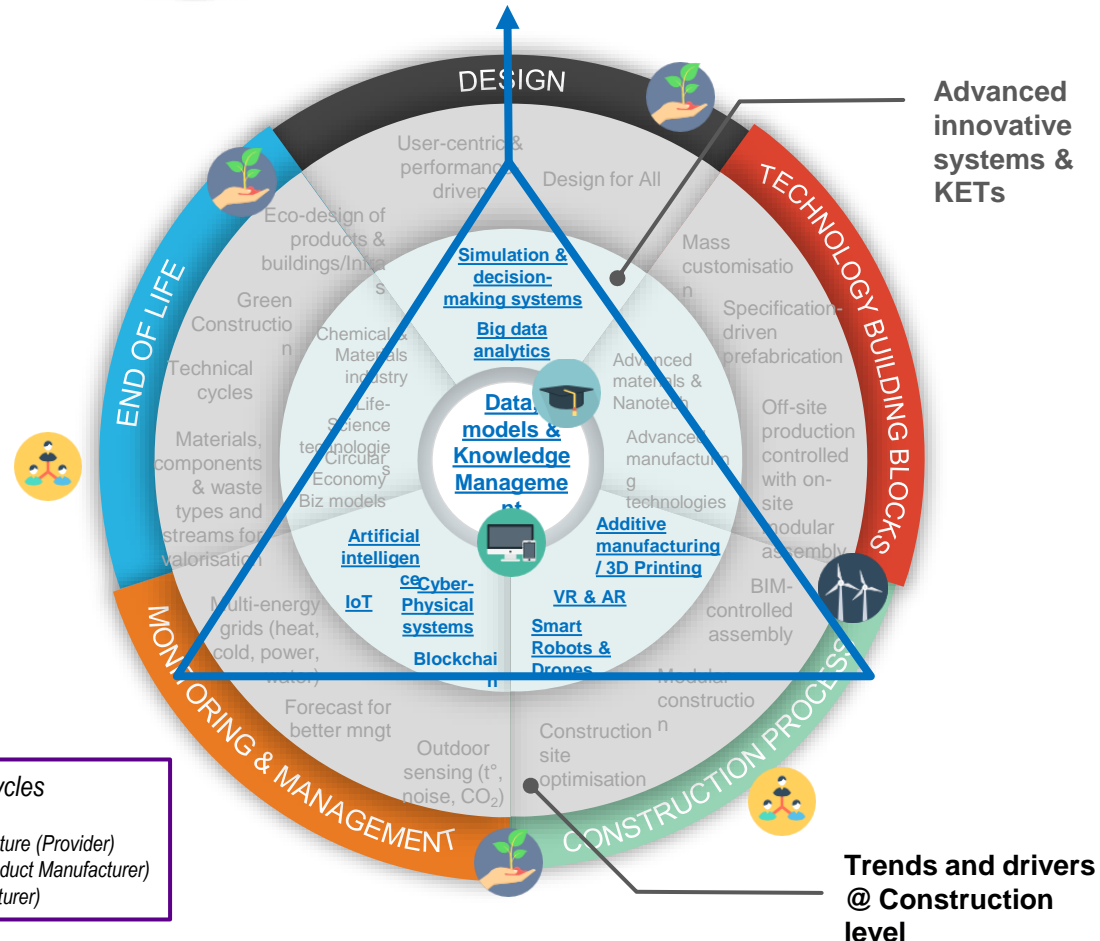
Technical cycles

- Maintain (Customer)
- Refurbish / Remanufacture (Provider)
- Reuse / Refurbish (Product Manufacturer)
- Recycle (Part Manufacturer)



Digitalisation & Automated Construction Committee

AN ECTP COMMITTEE FOR INNOVATIVE BUILT ENVIRONMENT



The Digital challenge of the Build Environment

**Future trends and priorities
in the application of digital
technologies o the build
environment**



**Priorities in
application areas –
The Twin Transition**



COMMITTEES



Future trends and priorities in the application of digital technologies of the build environment

- Governance models for secure data and information delivery across lifecycle and supply chains
- Design technologies/tools
- Transition from the IoT to the Semantic Construction Web of Things
- IoT and integration with BIM-enabled platform
- User-centred Building to Urban Intelligence based in AI technologies
- BIM and Digital Infrastructures
- New Standards

Priorities in application areas Twin Transition

- Smart Asset Management
- Digitalization in support of massive renovation of the building stock
- Integration in the Energy system – energy efficiency
- Value Chain integration
- The Built Environment as part of the sustainable urban transition
- Multi-modal transport hubs and urban mobility infrastructures
- Intelligent and highly customised Industrialised construction
- Digital construction site and digital construction

Closure of ECTP DBE Committee Session



Thank You!