

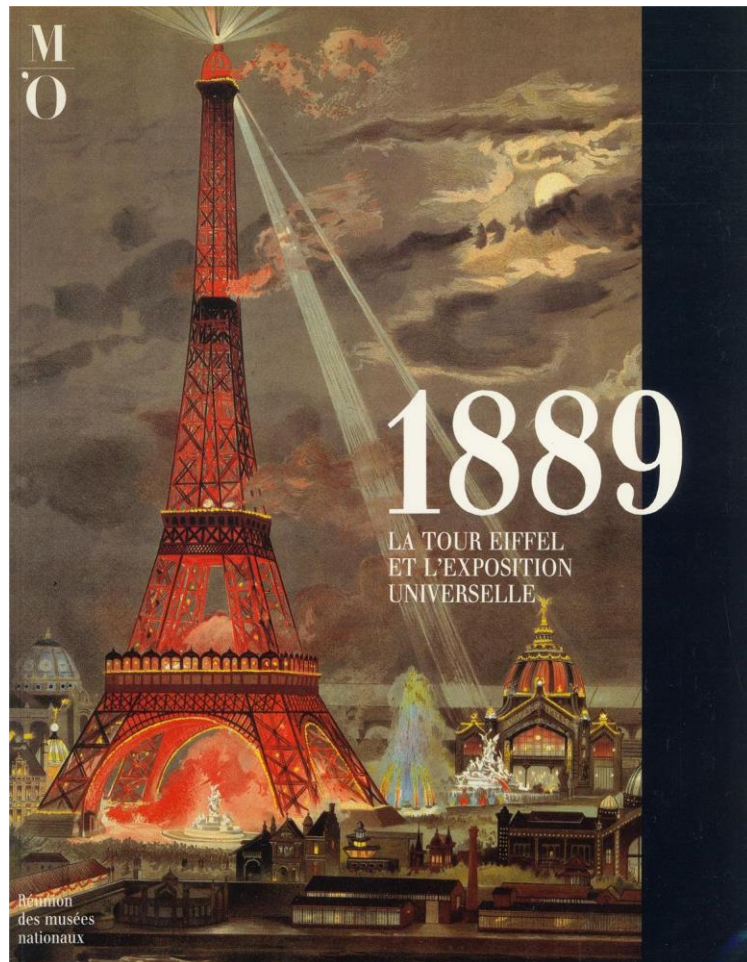


The Construction Sector – Adapting to the Digital Times

*Digital construction
R&D funding needs and
opportunities by the EU*

*Fulvia Raffaelli – Head of Unit
Clean Technologies & Products-European Commission,
Directorate General for Internal Market, Industry,
Entrepreneurship and SMEs
Bauma, 11 April 2019*

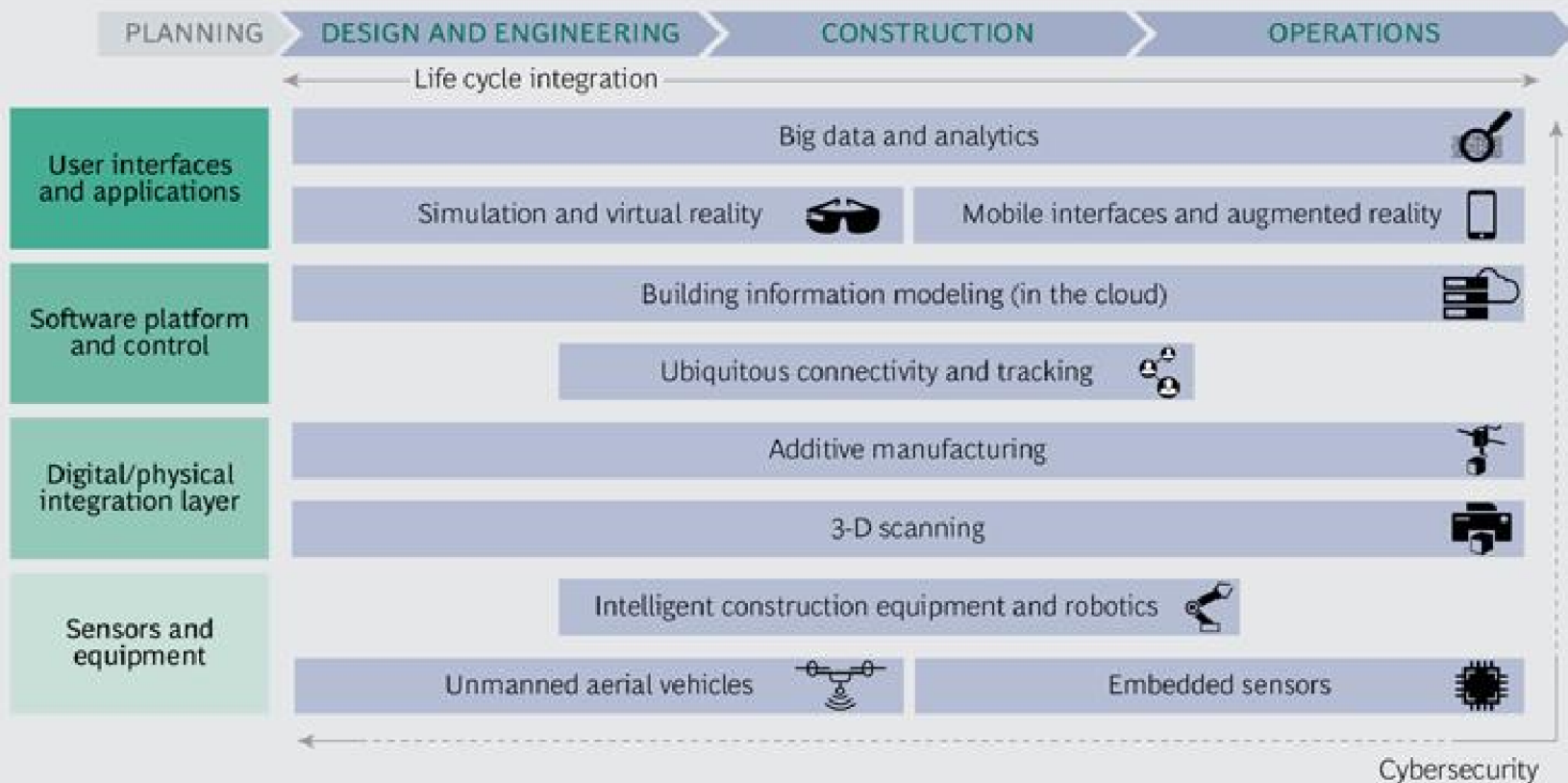
Construction has always innovated!



- Solutions exist
- There are good examples to follow
- Collaboration can be fruitful
- Talents are essentials

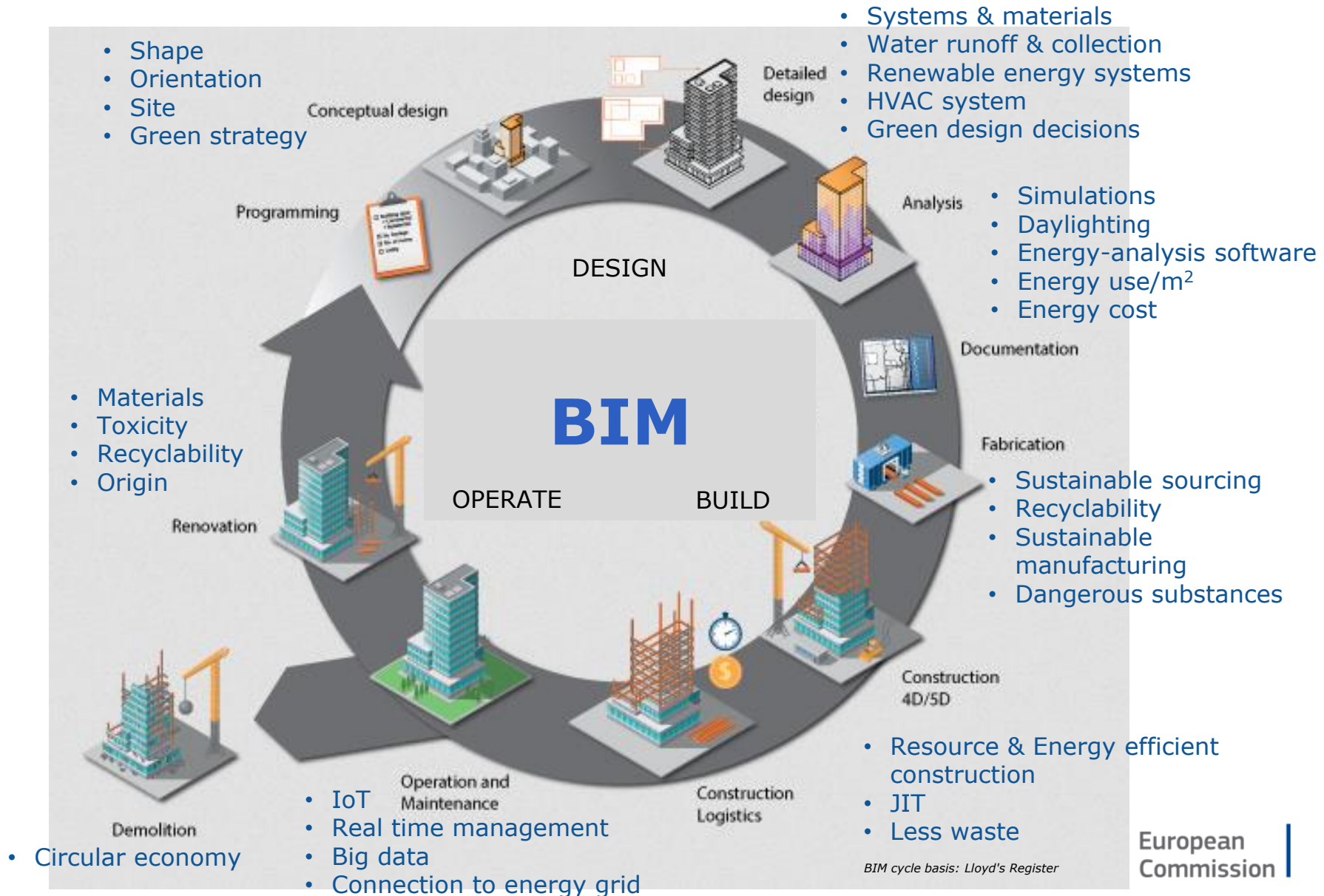
Technology is already here

EXHIBIT 1 | Many Digital Technologies Can Be Applied Along the E&C Value Chain

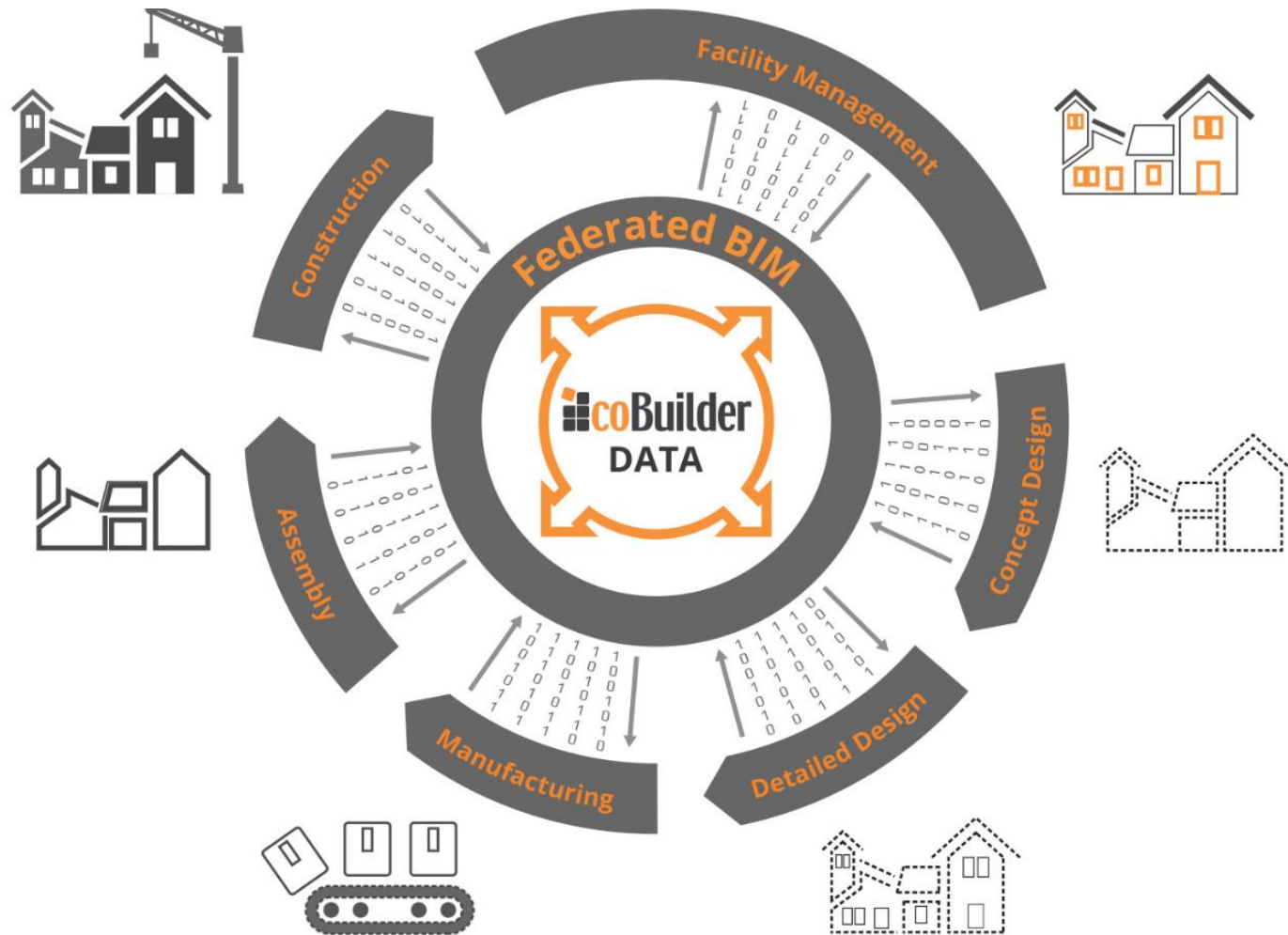


Source: BCG analysis.

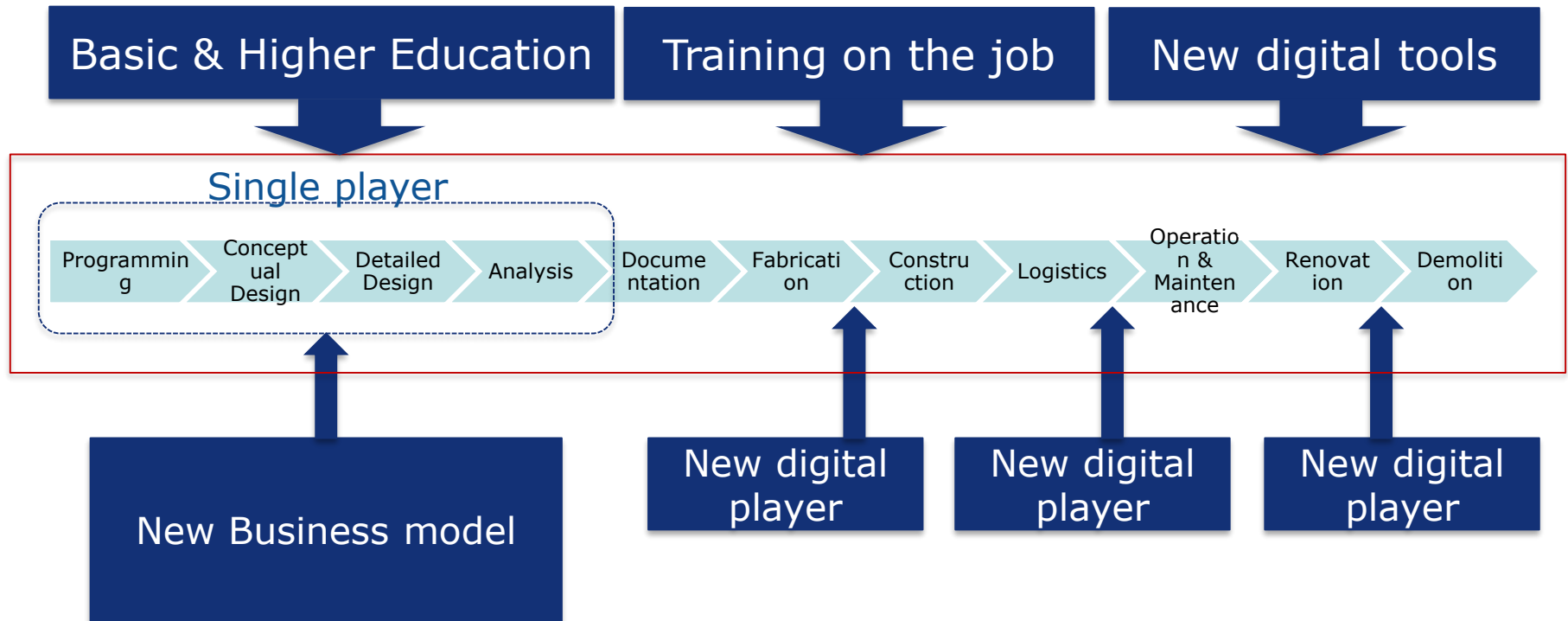
Digitalisation contributes to sustainable buildings



...but there are issues about uptake and interoperability



Digital change in the construction value chain

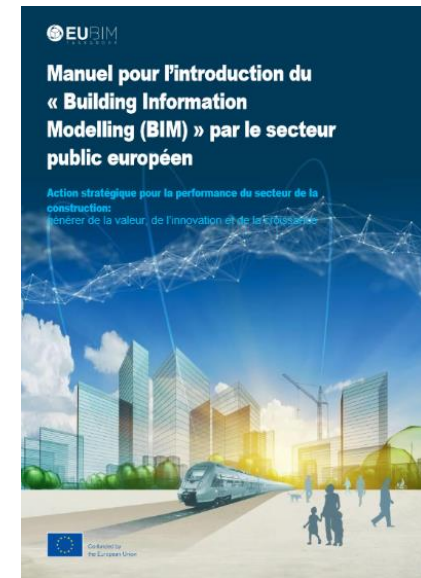


Current EC initiatives on uptake



Support public sector take-up

- EU BIM Task Group
 - *23 member states: how to introduce BIM in the public sector: handbook in 18 languages.*
- Encourage alignment on the understanding of BIM in public contracts



Free download at www.eubim.eu

Support the construction value chain and SMEs

- *Introduce a campaign with best practices for the adoption and implementation of digital technologies by smallest companies*
- *Facilitate the setup of Digital Innovation Hubs and link them in a pan-European network*
- *Provide lifelong digital learning and skill development*

Support horizontal activities

- *Smart CE marking: digitising construction product performance data (with CPE and CEN TC 442)*
- *BIM standardisation: CEN/Cenelec TC 442*
- *Digital platform for the construction sector (concept)*

Digitalisation sets the future skills demand Blueprint for Sectoral Cooperation on Skills – Construction Sector



Construction

- *a project supported by EUR 4 million (80%), 4-year long*
- *a sectoral strategy for skills intelligence and labour-market relevant skills development*
- *improving the sector human capital basis - a new generation of digitally aware multi-skilled workers (digitalisation, energy efficiency, sustainability)*

European Construction Sector Observatory

- *Launched in 2015*
- *Individual country profiles, fact sheets on individual national and/or regional policy measures, trend and analytical reports*
- *Trend reports on digitalisation:*
 - *3D printing and drones in construction*
 - *Building information modelling in the EU construction sector*

https://ec.europa.eu/growth/sectors/construction/observatory_en

The context of modernisation: base for our actions

Challenges

- *Ageing populations*
- *Migration*
- *Skills evolution*
- *Service orientation*
- *User-centric thinking*
- *Customisation*
- *Real-time*
- *Climate*
- *Natural resources*
- *Energy transition*
- *New business models/players*
- *Life-time approach to assets*
- *Innovative materials*
- *Increased usage of BIM*
- *Weight of the sector*

Approach

- *The Energy & Decarbonisation transition*
- *The digital transition*
- *The Circular Economy & industrialisation*

**Sustainable
Competitive
ness**

- *Smart and sustainable growth and jobs*

What's next?

Commission policy areas and financial instruments to define a common policy vision for the EU built environment



Thank you!