



# The Construction Sector – Adapting to the Digital Times

## *Youth Employment and the Digitalisation of the Energy Renovation Sector*

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28 March 2018*

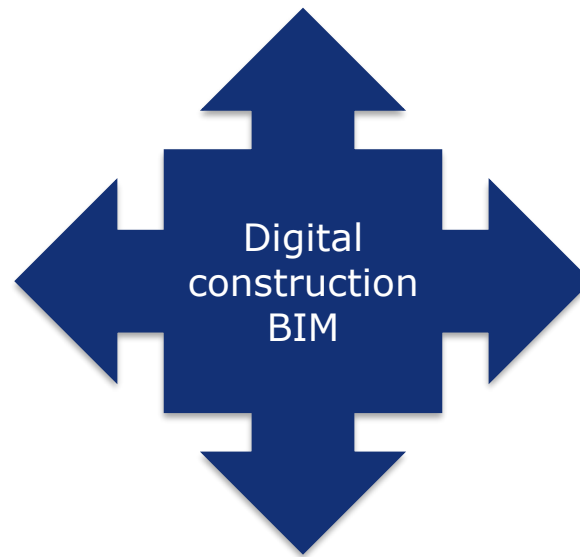
# The context of innovation and jobs

- *The construction sector needs to undergo transformation.*
  - *Buildings have an important impact on energy, climate change and the environment.*
  - *Construction is at the very heart of smart and sustainable growth and jobs.*
- *Digitalisation plays a key role in facing these challenges.*

# What is digitalisation and how will it impact skills?

Improve planning, construction and renovation processes  
Robots, 3D printers, 3D scanners, satellite imaging, drones

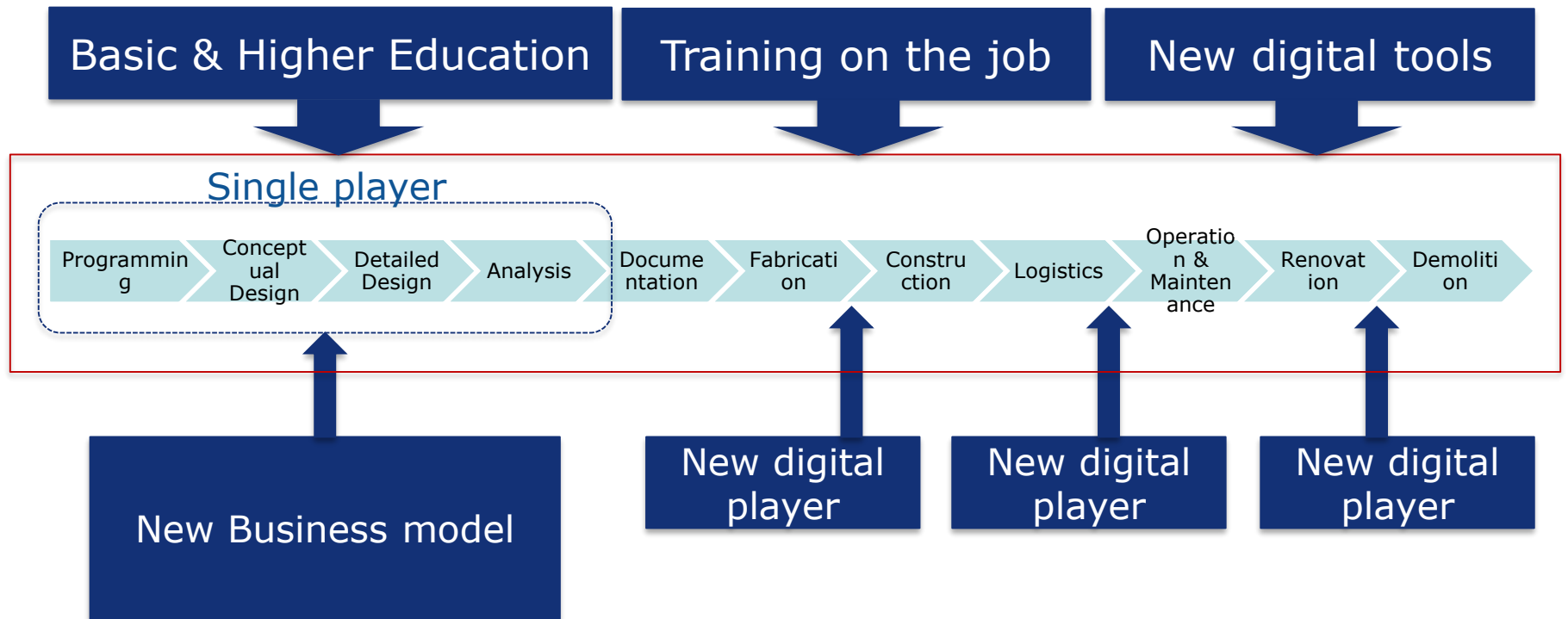
Sustainable energy and environment  
Smart materials,  
Circular economy



Improve operation and maintenance of buildings  
Sensors, IoT

Smart analysis  
Big data

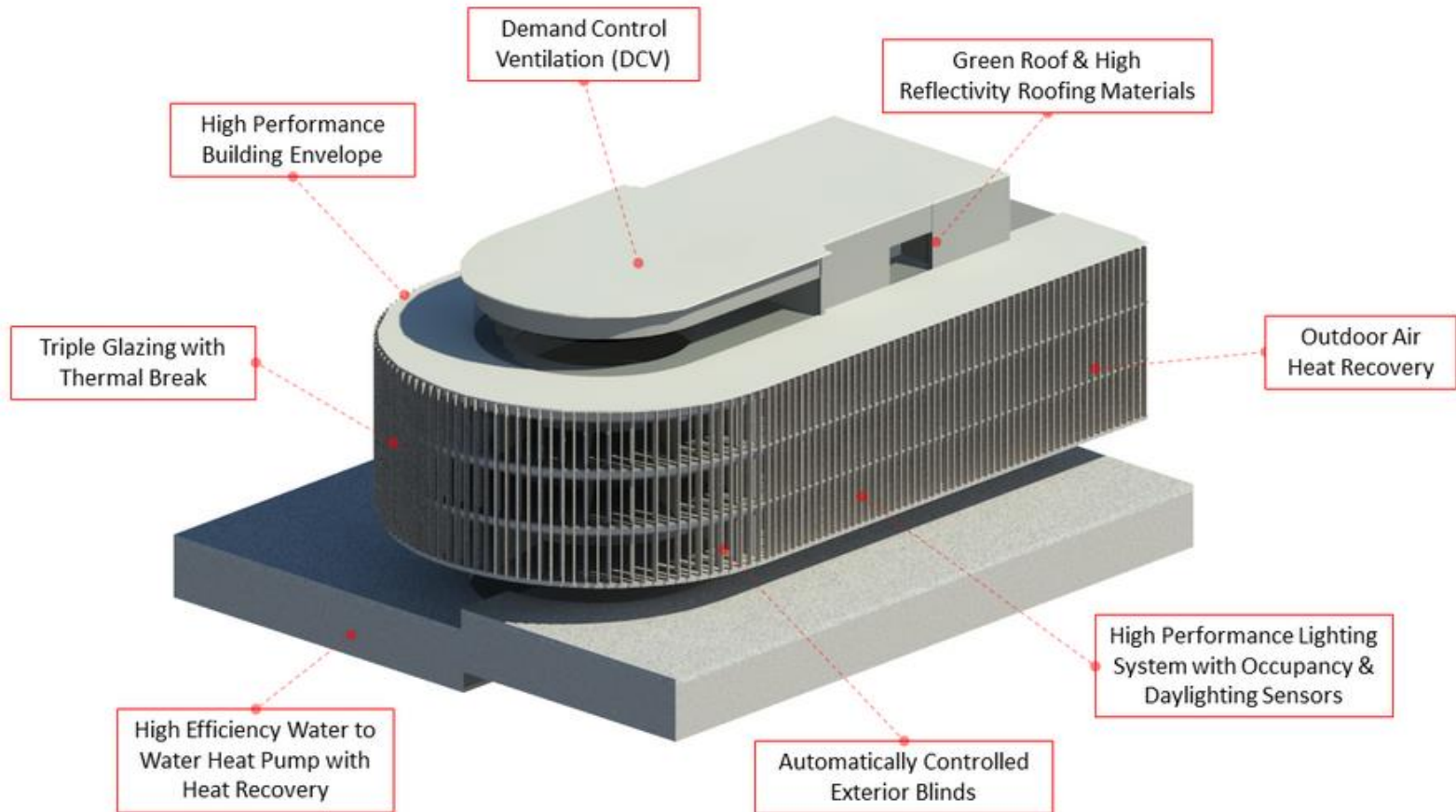
# Digital change in the construction value chain and impact on skills



# Commission initiatives & support

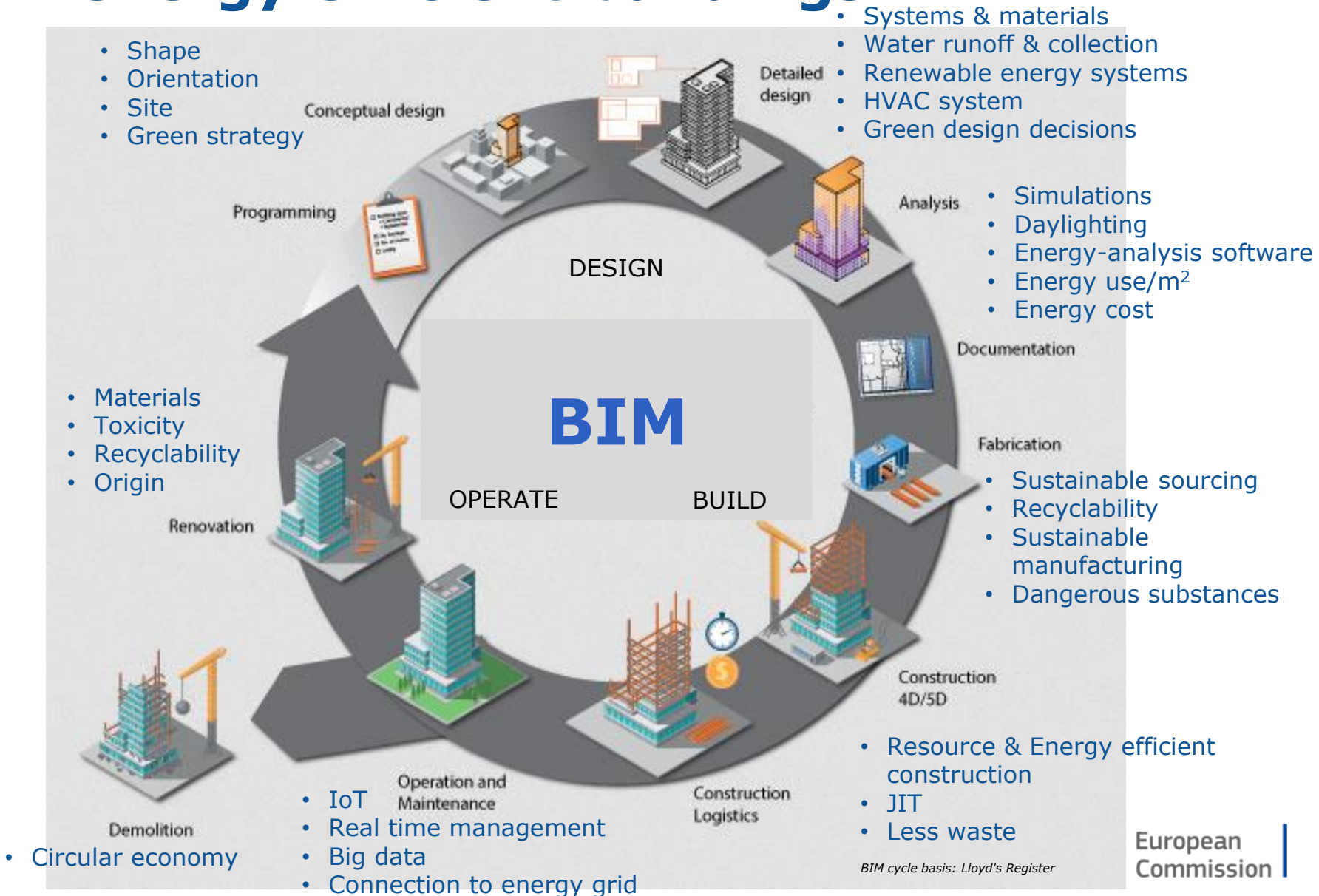


# A sustainable building





# How BIM contributes to sustainable and energy efficient buildings





# Digitalisation sets the future skills demand

## Blueprint for Sectoral Cooperation on Skills – Construction Sector

- *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)*



Construction

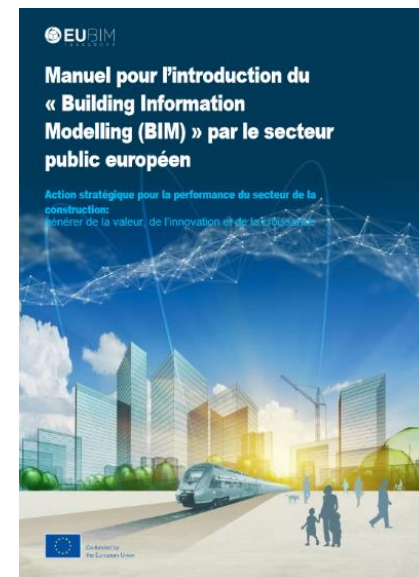
# APPENDIX

# Commission initiatives for innovation in construction (1/4)

## *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*



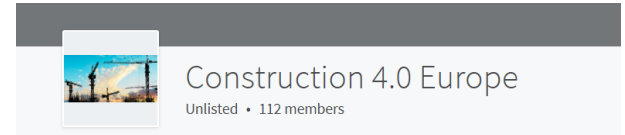
Free download at [www.eubim.eu](http://www.eubim.eu)

# Commission initiatives for innovation in construction (2/4)

## ***Support the construction value chain and SMEs***

- *Study: support digitalisation of construction and its SMEs: Ongoing call*
- *Smart CE marking: Digitising construction product performance data: with CPE and CEN TC 442.*

# Commission initiatives for innovation in construction (3/4)



## ***Create momentum around digitalisation of construction***

- *Thematic Group 1: High level Group on Construction*
- *LinkedIn Group: Construction 4.0 Europe*



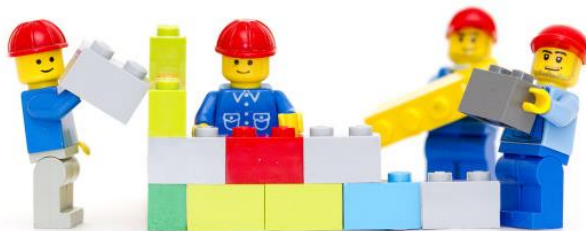
## ***Support horizontal activities***

- *BIM standardisation: with CEN/Cenelec TC 442*
- *Digital platform for the construction sector: Call – need for and potential content of a digital industrial platform for construction*
- *BIM dictionary*

# Commission initiatives for innovation in construction (4/4)

## *Support Research & Innovation*

- *Smart buildings, data, IoT, AI, age friendly housing and robotics in construction.*
- *PPPs, research on smart building materials, BIM in renovation and energy efficiency in buildings, pre-fabrication, etc.*



**Thank you!**