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Accelerating BIM adoption

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WELCOME
TO ATHLONE
for the 6th CitA BIM Gathering

"Support of the digitalisation of the built environment, public procurement and SMEs in construction"

1	Project background
2	Project overview
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1 Project's background

EISMEA

European Commission

pwc   carsa   TUS

Project's Advisory Group

- EU BIM Task Group
- EUnet4DBP
- buildingSMART
- Construction IT Alliance (CitA)
- Member States' Municipalities
- TU Delft

- European Federation of Engineering Consultancy Associations (EFCA)
- Architects' Council of Europe ACE – CAE
- European Construction Industry Federation (FIEC)
- KiraHub
- Sova3D

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EU new Industrial Strategy

High Level Construction Forum

Transition pathway

Digitalisation

European Commission, through the new European Industrial Strategy, identified 14 ecosystems of the European economy, including the **construction sector** among them. The strategy suggested the development of a transition pathway for each ecosystem.

The High Level Construction Forum, an initiative from DG GROW, was established, as a **communication platform** with more than 700 construction stakeholders (participants), aiming to co-create the construction ecosystem's **transition pathway**.
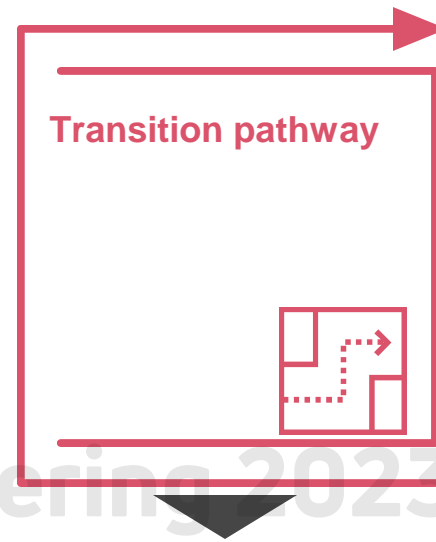
Digital transformation is one of the key pillars of the construction ecosystem's transition pathway, as it is expected to improve the competitiveness and increase transparency and trust in the sector. Transition pathway has been **developed** and **published** by DG GROW in March 2023.
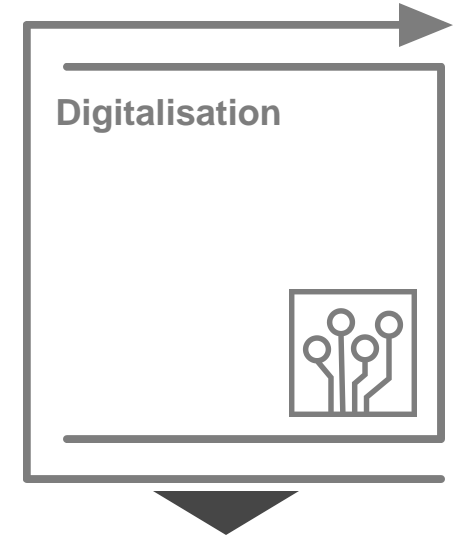
Today, among others, **BIM adoption, digitalisation of building permit systems, digital logbooks, construction dataspaces and construction products** are recognised as **key enablers** for the digitalisation of the construction sector.

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HLCF: https://digital-construction.ec.europa.eu/news/2/the-high-level-construction-forum
Transition pathway: https://ec.europa.eu/docsroom/documents/53854

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Public sector's role

The public sector maintains a key role in construction as:

approximately **30% of the money spend in construction are public**

also, it is estimated that there are approximately **250.000 public authorities in EU that procure for construction**

Therefore, public sector can have an **integral role in promoting the digitalisation** of the construction sector.

Challenges

There are several challenges that hinder digitalisation of the construction sector across EU:

❖ **National progress relies on national willingness** and voluntary exchange of good practice.

❖ There is **no accurate image of the actual progress and challenges** across Member States.

❖ Member States **need guidance and support**.

❖ At EU level there is a **need to align efforts among different digital initiatives** and make sure that logbooks, building permits and BIM communicate.
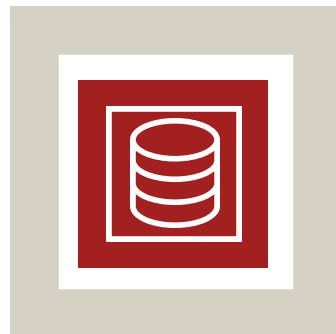
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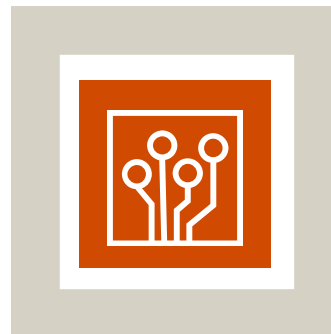
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Project overview

Objective 1

Preparing the ground for a **construction data space**

- Map existing initiatives and analyse recommendations from DigiPLACE
- Collect requirements on data space development
- Deliver recommendations and propose cooperation mechanisms

Objective 2

Support the **digitalisation of building permit systems** allowing digital maturity and automatisation

- Map the state of play and analyse international frontrunner cases
- Prepare a Toolkit to support Public Authorities in the transition to digitalisation
- Organise trainings across Member States

Objective 3
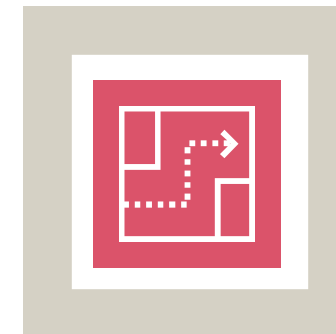
Support the adoption of **BIM in public procurement**

- Map the state of play in BIM adoption in MS
- Define levels of BIM maturity and assign countries to them
- Collect use cases of public projects using BIM

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Timeline

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Months

Dec **2023** Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec **2024** Jan | Feb | Mar | Apr | May | Jun

Today

Delivery Plan

Analysis of existing initiatives and DigiPLACE recommendations

Work Package 1: *Towards a construction data space*

Collect functional and non-functional requirements for the European Construction Data Space

Design alternative scenarios for the development of the construction data space

Recommendations for the setting of the data space

Map the state of play on building permit systems across the EU and maturity categorisation of the different systems

Analysis of 10 international best practise cases and identify gaps and needs regarding digitalisation of processes

Work Package 2: *Digitalisation of building permits*

Prepare Toolkit for public authorities and e-learning platform for trainings in all MS

Delivery of trainings in all MS

Analysis of state of play in BIM adoption across all EU MS

Maturity methodology and tool, assignment of EU27 MS

Work Package 3: *BIM, digitilisation and sustainability*

Scan of the field of public buyers and raise awareness about the launch of the BIM and public procurement CoP

Collect and present 30 use cases of public projects using BIM

Consultations with the EU BIM Task Group and other stakeholders

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Project's impact

Project impact

Construction data space

Strengthen **the construction data flow** within EU Member States

Promote the **efficient use of data** and **data-based decision making** in the construction sector

Digitalisation of building permits

Develop a **solid understanding** in terms of the **progress made** in digitalising the building permits systems across EU

Support Local Authorities and provide **relevant tools and trainings** to digitalise building permit systems

BIM in public procurement

Increase awareness of Public Authorities around the digitalisation of the construction sector

Monitor and **evaluate** the progress made in BIM adoption across EU (maturity evaluation methodology)

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Vision: This community aims to bring together public sector stakeholders, share knowledge, and give them access to documents and examples of BIM in Public Procurement leading to mainstreaming, streamlining and inspiration for the use of BIM in Public Procurement.

Member's benefits:

- Continuously updated resources around digitalisation of the construction sector
- Latest news and events
- Collaborative space and open discussion forum

https://public-buyers-community.ec.europa.eu/communities/bim-and-public-procurement/about-bim-and-public-procurement

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Deep knowledge and expertise related to the development and function of **dataspaces**

Expertise in modernising processes of Local Authorities, within and outside EU, with a special focus on digitising building permits systems

Knowledge in the area of BIM adoption by Member States and the role of public sector (national BIM strategy, funding schemes, collaboration with industry, etc.)

BIM use cases, within the EU, focused on sustainability and energy efficiency, circular economy, openBIM, BIM in the whole lifecycle of the asset etc.

Willingness for participation in European Commission's BIM and Public procurement Community of Practice

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THANK YOU