WELCOME!

DigiPLACE
TOWARDS A EUROPEAN DIGITAL PLATFORM FOR CONSTRUCTION

DigiPLACE online information session

This project has received funding from the European Union's H2020 programme under Grant Agreement N. 856943

Moderation

Carole BACHMANN
ERA Manager

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TOWARDS A EUROPEAN DIGITAL PLATFORM FOR CONSTRUCTION

29/4/2020

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Housekeeping rules

no camera

mute

questions

recording

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AGENDA

10:00 HOUSEKEEPING RULES BY THE MODERATOR
Carole BACHMANN, ERA Manager

10:05 WELCOME MESSAGES
Niklas NILLROTH, CECE President
Rositsa GEORGIEVA, European Commission

10:10 OPENING MESSAGE
Michel PETITJEAN, ERA Secretary General

10:15 DigiPLACE PROJECT PRESENTATION
Claudio MIRARCHI, Politecnico di Milano, DigiPLACE coordinator

10:30 DIGITAL LEVEL AND COMPARISON ANALYSIS
Alain ZARLI, ECTP Secretary General

10:50 OUTLINING THE DIGIPLACE REFERENCE ARCHITECTURE FRAMEWORK
Nicolas NAVILLE, CSTB

11:10 Q&A SESSION

11:25 CONCLUSION
Riccardo VIAGGI, CECE Secretary General

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WELCOME

Niklas **NILLROTH**
CECE President

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WELCOME

Rositsa GEORGIEVA
European Commission

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OPENING MESSAGE

Michel PETITJEAN
ERA Secretary General

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See the video here

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PROJECT PRESENTATION

Claudio MIRARCHI
Politecnico di Milano
DigiPLACE coordinator

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The call

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DigiPLACE

Horizon 2020 work programme 2018/20 - **Information and Communication Technologies**

Call: H2020-DT-2018-2020

Digitising and transforming European industry and services: digital innovation hubs and platform

Topic: DT-ICT-13-2019

Digital Platform/Pilots Horizontal Activities

Project 1st classified:

DigiPLACE (Digital PLAtform for Construction in Europe)

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The starting vision

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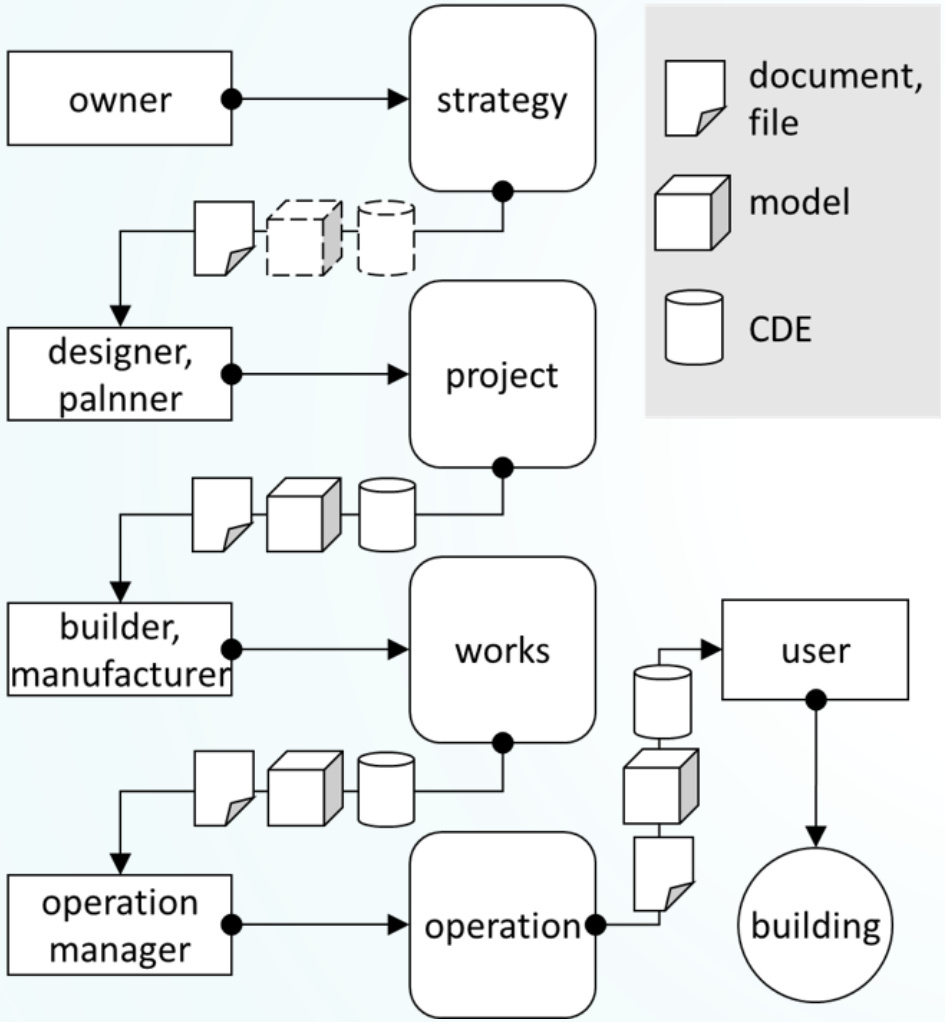
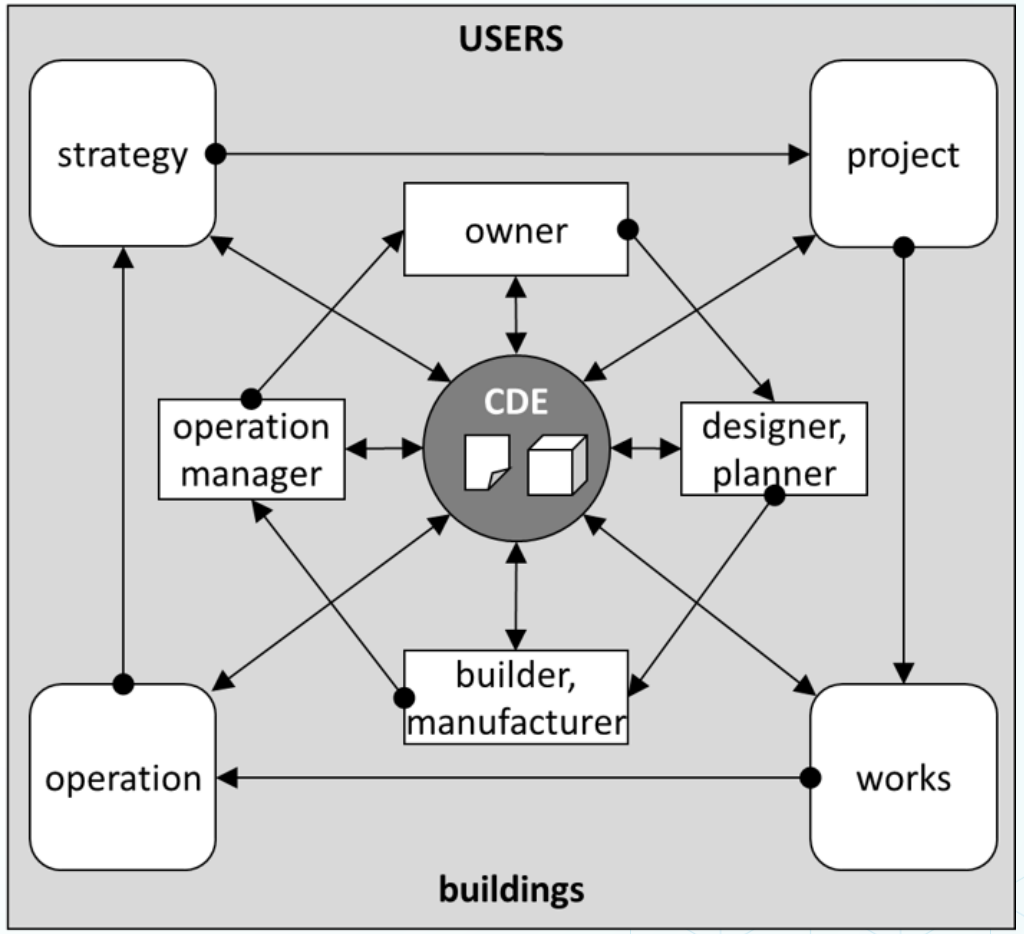
Construction information flow





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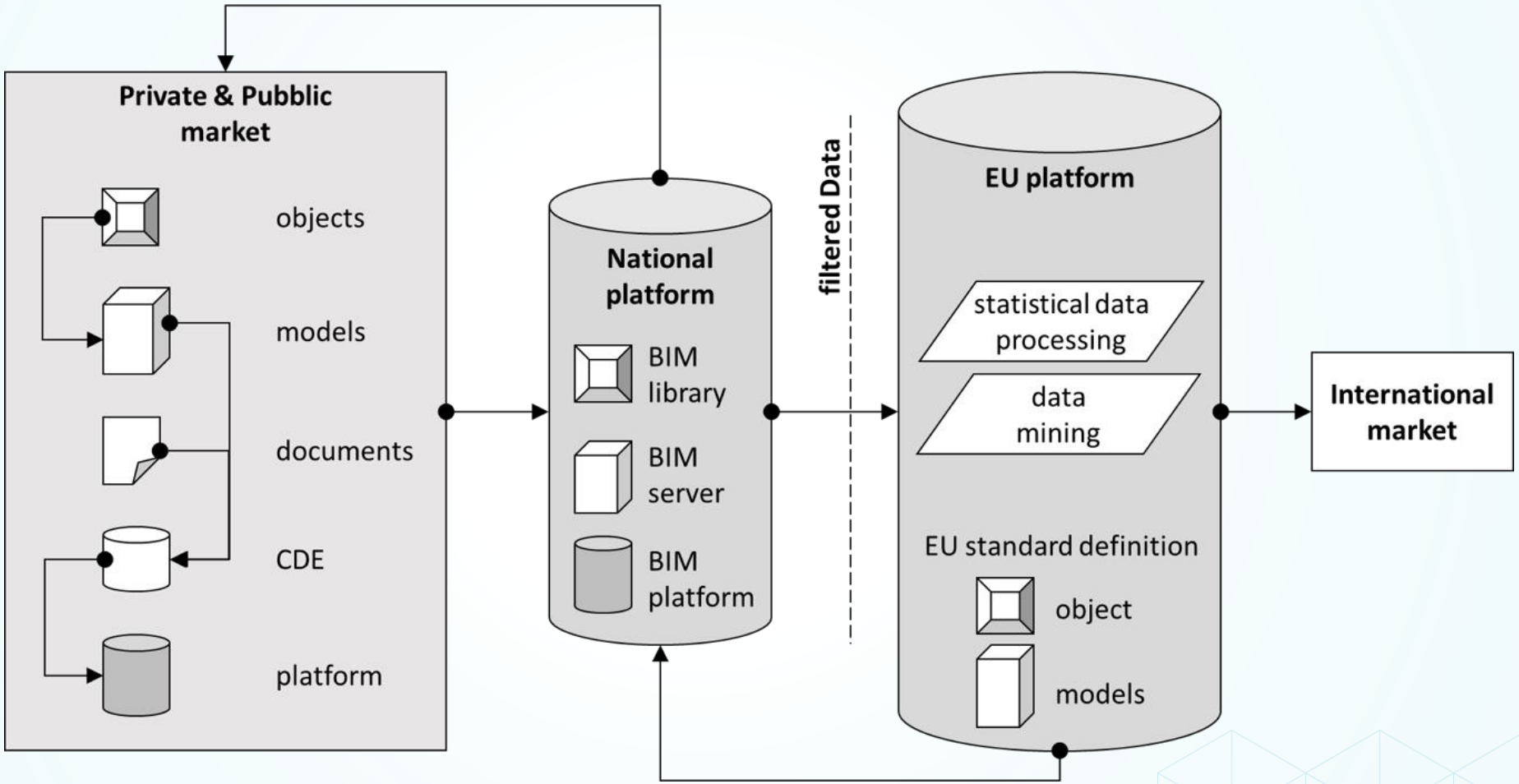
Private, national, EU information repository and platform



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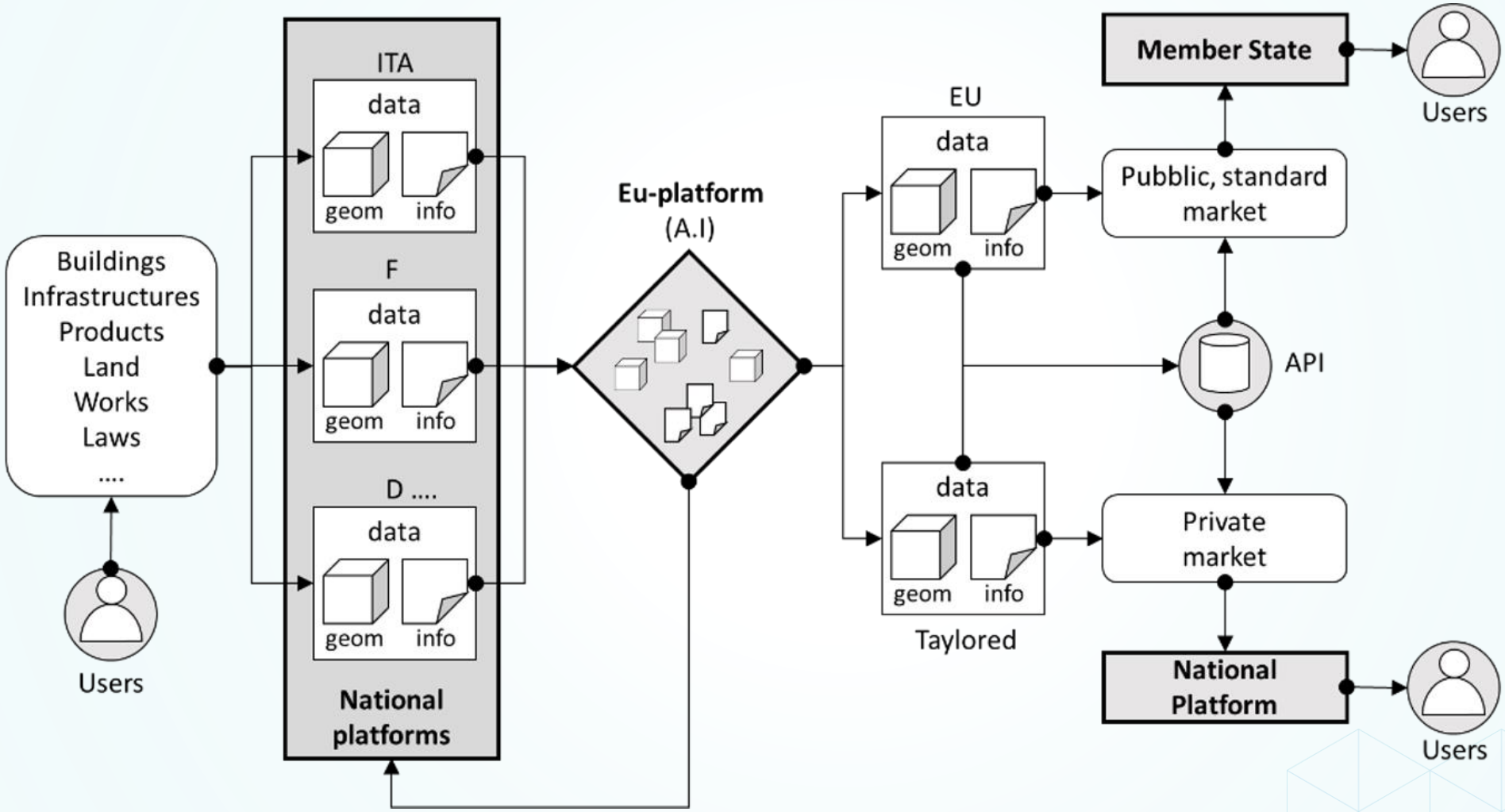
Construction information needs



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The project

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The DigiPLACE project objectives

The highest-level objective of the **DigiPLACE** project is to create a **Reference Architecture Framework (RAF)** for the **digital industrial platform** for the **construction sector** based on a shared consensus along the entire chain

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Expected impacts

01: Increased **productivity and sustainability** of European Construction Industry

02: Facilitate the diffusion of a **common language** in the construction sector

03: Pave the way for the growth of **smart cities** and **smart infrastructures**

04: Strengthening the role of **EU in Global Construction Ecosystem**

05: Accelerated and efficient **collaboration between public authorities and industry**

06: Validation in usage context of usability, **risk and security assessment …and sustainability**

07: Maintaining and extending an active **eco-system** of relevant stakeholders, **including start-ups and SMEs**

08: Promote the diffusion of **knowledge** and facilitate the introduction of **digital practices**…

09: Tangible contributions from European key players to actively engage with the platform building Process

10: Efficient **information sharing** across the programme stakeholders for horizontal issues of common Interests

11: Facilitate the introduction of …**Digital Transformation of the Construction sector**

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DigiPLACE beneficiaries and Linked Third Parties

N.	Beneficiary name	Short name
1	Politecnico di Milano	POLIMI
2	Centre Scientifique Et Technique Du Batiment	CSTB
3	European Construction, Built Environment And Energy Efficient Buildings Technology Platform	ECTP
4	Indra Soluciones Tecnologias De La Informacion Sl	INDRA
5	Conseil Des Architectes D'europe	ACE
6	Buildingsmart International Limited	BSInt
7	Committee For European Construction Equipment	CECE aisbl
8	European Builders Confederation	EBC
9	European Federation Of Engineering Consultancy Associations	EFCA
10	Federation De L'industrie Europeenne De La Construction	FIEC

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DigiPLACE beneficiaries and Linked Third Parties

N.	Beneficiary name	Short name
11	Univerza V Ljubljani	UL
12	Federazione Delle Costruzioni	FederC
13	Centre Scientifique Et Technique De La Construction	CSTC
14	Construction Products Europe	CPE
15	Ministere De L'ecologie Du Developpement Durable Des Transports Et Du Logement	MEEM
16	Associazione Nazionale Costruttori Edili	ANCE
17	Bundesministerium Fuer Verkehr Und Digitale Infrastruktur Dig	BMVI
18	Bam Bouw En Techniek Bv	BAM
19	Italian Ministry Of Infrastructure And Transports	MIT

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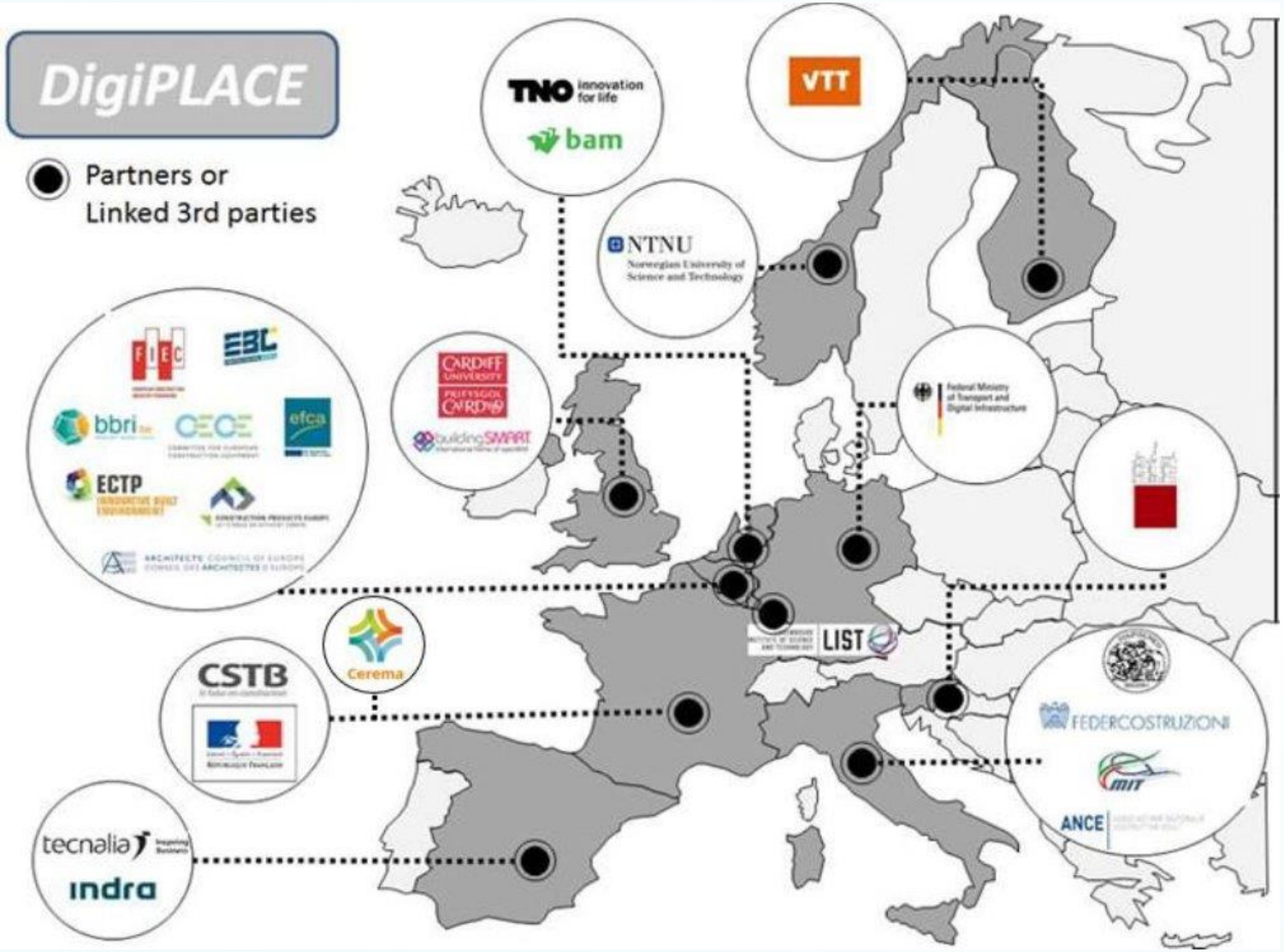
DigiPLACE beneficiaries and Linked Third Parties



N.	Linked 3rd Parties
1	VTT
2	CU/BRE
3	LIST
4	Tecnalia
5	NTNU
6	TNO
7	CEREMA

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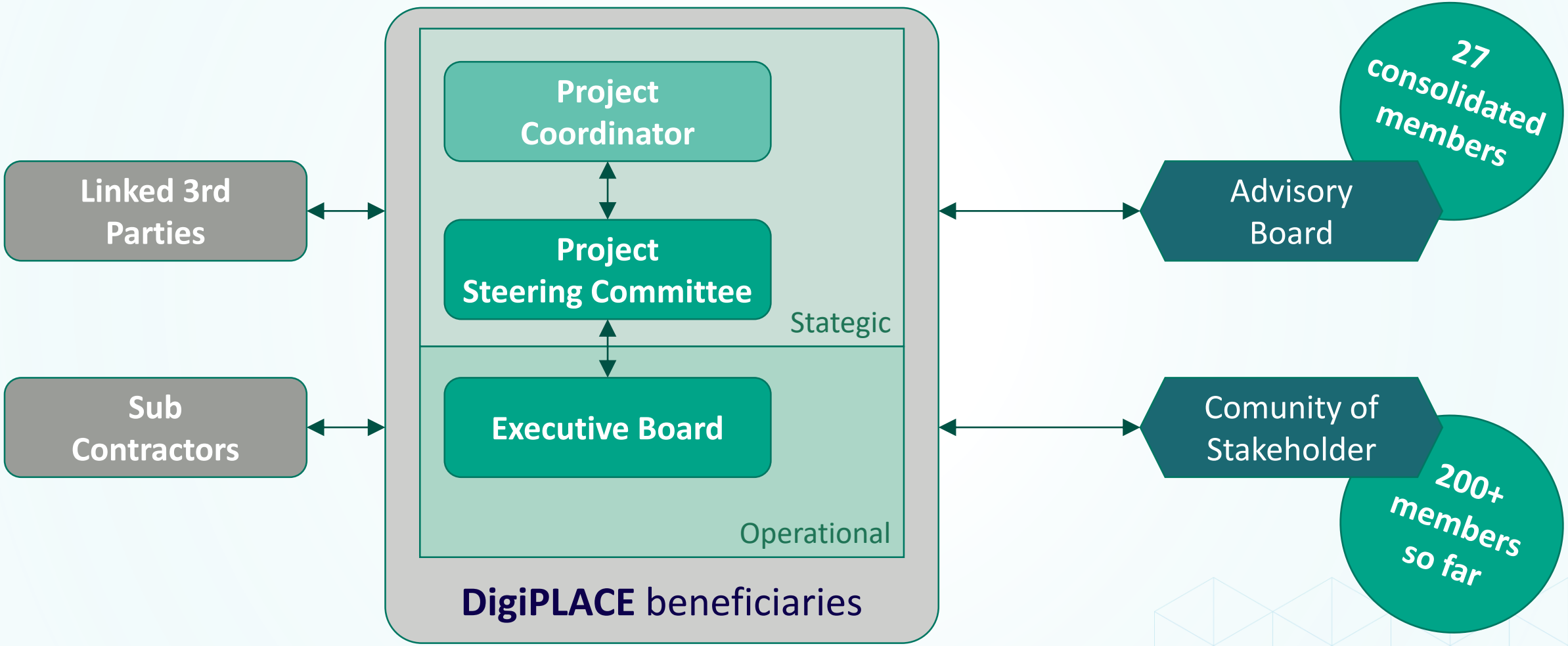
DigiPLACE beneficiaries and Linked Third Parties



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DigiPLACE Advisory Board Members

N.	Company name	Referent name
1	McKinsey & Company	Gernot Strube
2	Dassault Systèmes	Gianluca Gonella
3	Ente italiano di normazione - UNI informatica	Alberto Galeotto
4	ADN Construction	Benoit Senior
5	CoBUILDER International	Lars Christian Fredenlund
6	Acca Software s.p.a	Guido Cianciulli
7	Unismart Padova Enterprise S.r.l.	Stefano Carosio
8	International Data Space Association	Lars Nager
9	Estonian Ministry of Economic Affairs and Communications	Jaan Saar
10	Ministry of Construction and Physical Planning (Croatia)	Maja Marija Nahod

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DigiPLACE Advisory Board Members

N.	Compay name	Referent name
11	Czech agency for standardization (CESKA Agentura Pro Standardizaci)	Jaroslav Nechyba
12	BIM-architecture	Mr Peter Hyttel Sørensen
13	European Rental Association	Carole Bachmann
14	Platform of Trust	Toni Luhti
15	Finnish Association of Civil Engineers RIL	Miimu Airaksinen
16	European Concrete Platform	Francesco Biasioli
17	Chamber of Construction and Building Materials, Chamber of Commerce and Industry, Slovenia	Joze Renar
18	Neumarkt	Marcus Schreyer
19	Engineering Ingegneria Informatica S.p.A	Lafranco Marasso
20	IBM - International Business Machines Corporation	Paul Surin

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DigiPLACE Advisory Board Members

N.	Company name	Referent name
21	Vinci	Marie Claire Coin
22	Trimble	Jean-François Sourdoire
23	ENCORD	Norbert Pralle
24	Autodesk	Emmanuel Di Giacomo
25	Graphisoft (Nemetschek)	Miklós Szövényi-Lux
26	Ecole de Téchnologie Supérieur, Québec	Prof. Conrad Boton
27	Allplan (Nemetschek)	Kevin Lea

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DigiPLACE project Work Packages

WP1 – **Project management** - Politecnico di Milano

WP2 – **Long term community building** - Federcostruzioni

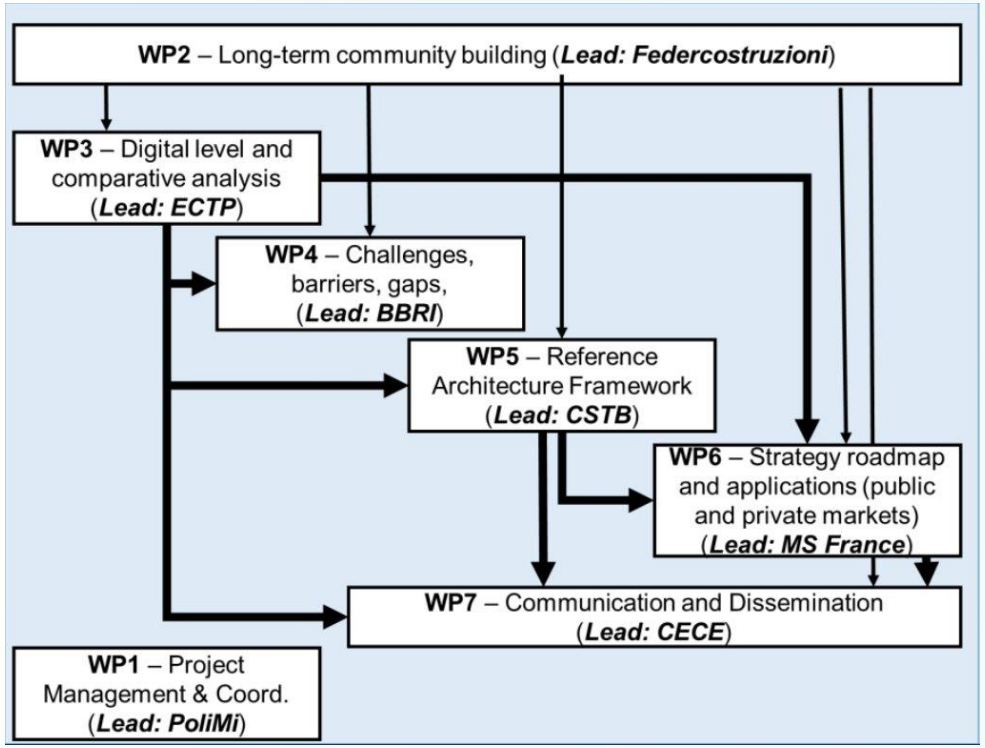
WP3 – **Digital level and comparison analysis** - ECTP

WP4 – **Challenge barriers and gaps** - BBRI

WP5 – **Reference Framework Architecture** - CSTB

WP6 – **Strategy roadmap** (private and public markets) - MEEM

WP7 – **Communication and dissemination** - CECE



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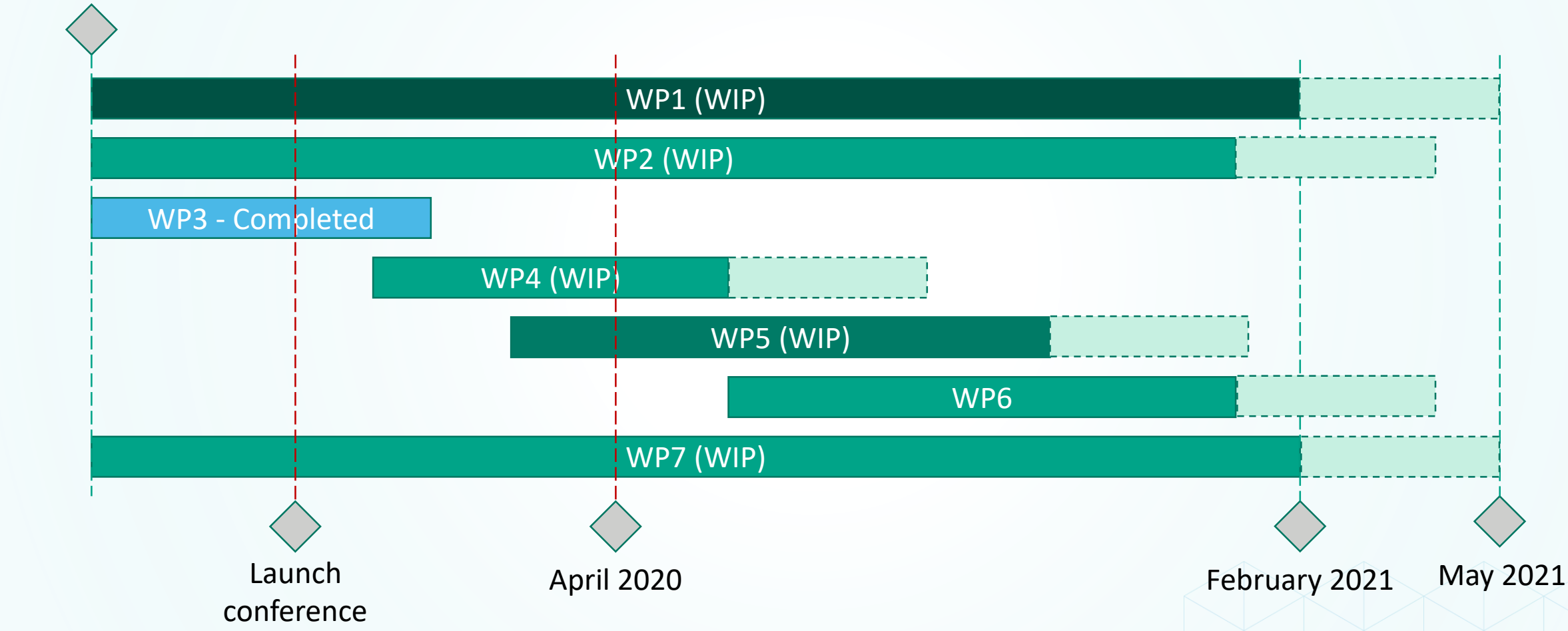
DigiPLACE project Gantt and state of the art



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DigiPLACE project Work Packages

We are waiting you in the community of stakeholder:

https://docs.google.com/forms/d/e/1FAIpQLSdvtdZ_C9N-4QrJfF0ahcL0IJ0-TKP-6sLe1ucW5qLF8dR6mA/viewform?vc=0&c=0&w=1

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DIGITAL LEVEL & COMPARISON ANALYSIS

Alain ZARLI

ECTP Secretary General

29/4/2020

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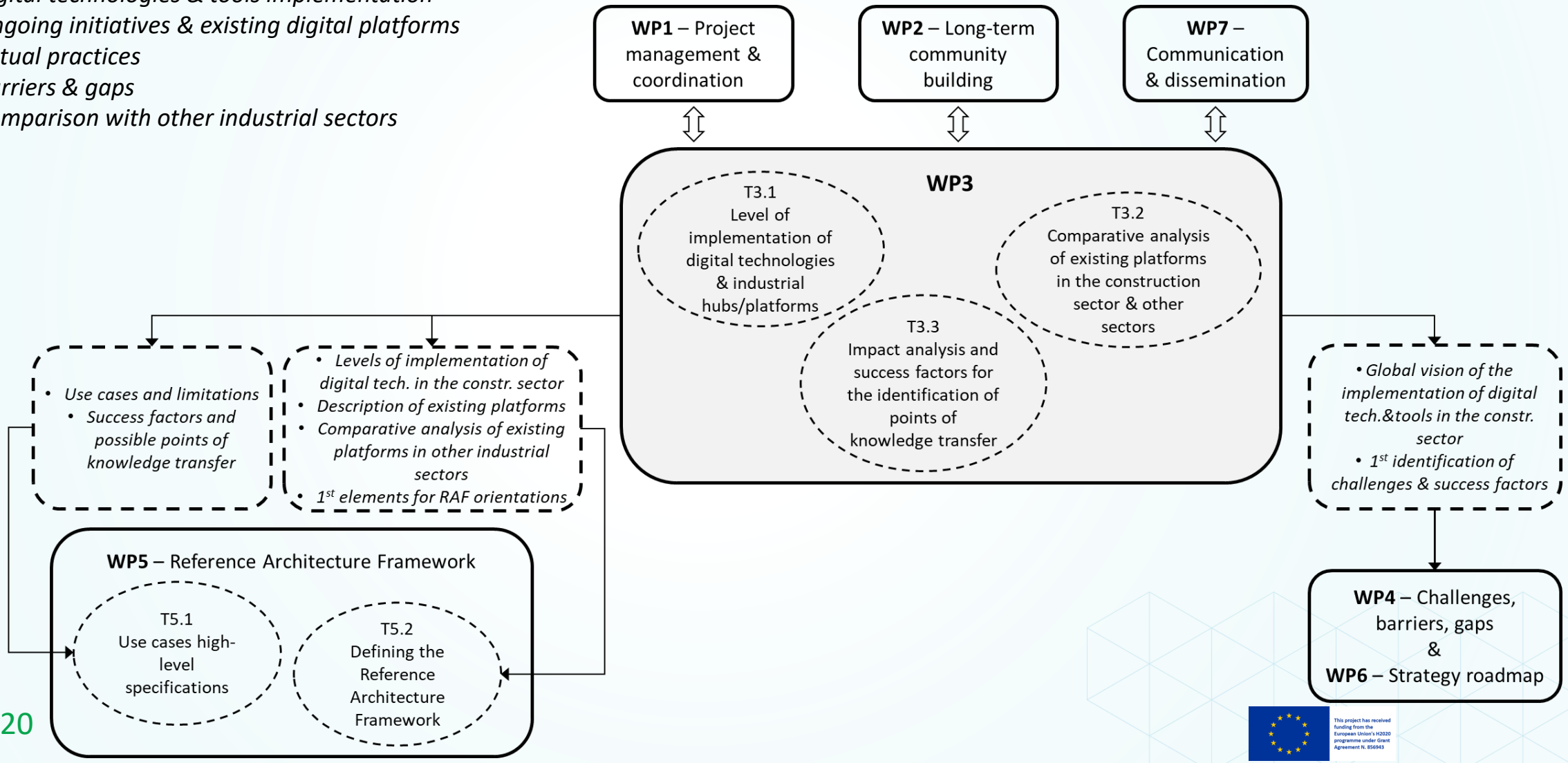
WP3 - Pave the way for DigiPLACE activities

- Provide a global vision of the level of digitalisation of the Construction sector
  - *Digital technologies & tools implementation*
  - *Ongoing initiatives & existing digital platforms*
  - *Actual practices*
  - *Barriers & gaps*
  - *Comparison with other industrial sectors*
  - *…*



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DigiPLACE
TOWARDS A EUROPEAN DIGITAL PLATFORM FOR CONSTRUCTION

T3.1
Level of implementation of digital technologies and industrial hubs/platforms in the EU construction sector and in other industrial sectors

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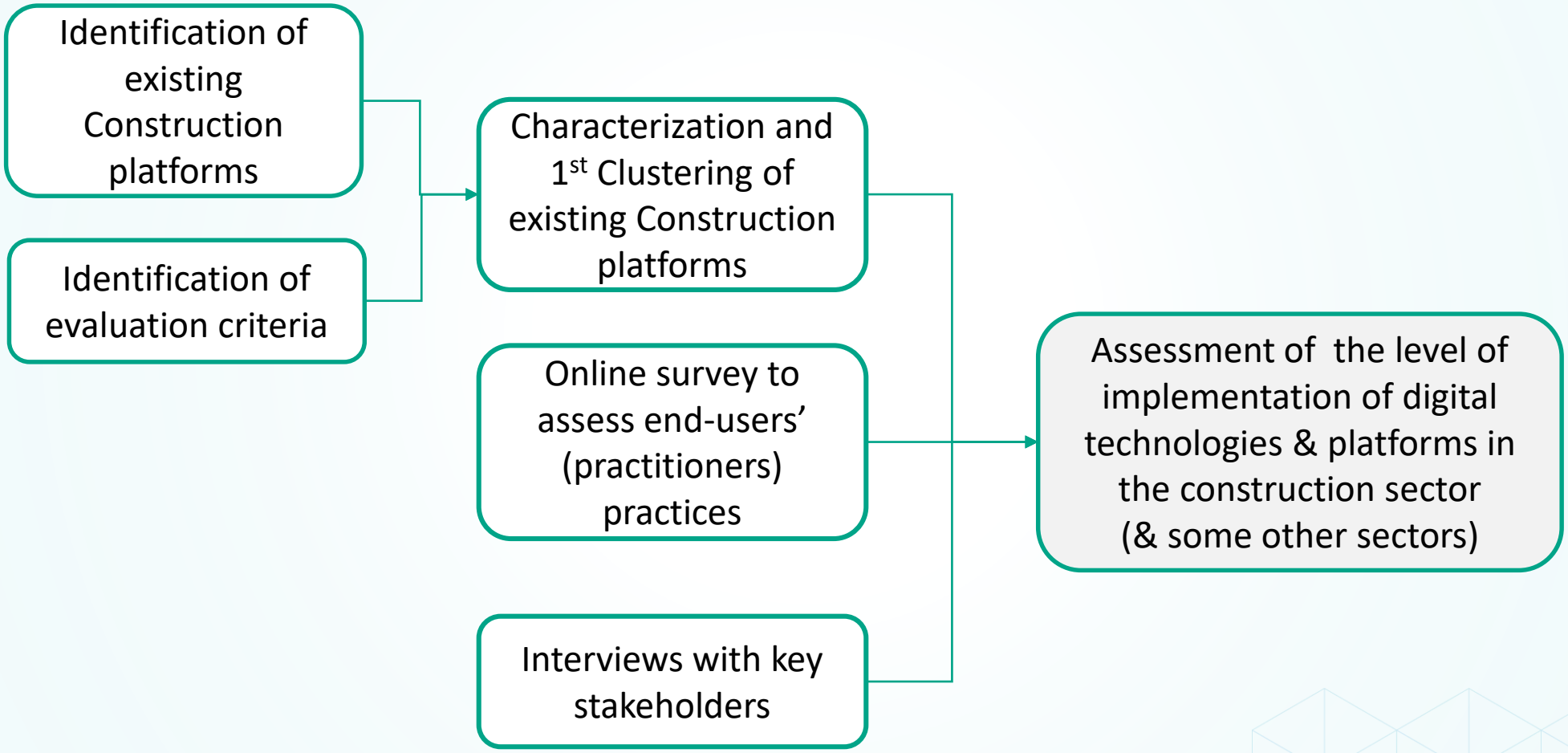
T3.1 – Methodology



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T3.1 – Characterization of existing platforms & 1st clustering

Criteria (15 items)
Name of the platform
Rights holder
Country of origin
Platform category(ies)
Deployment type(s)
Type of users
Type & number of users/licences
Use coverage of the platform
Type of property
Open source?
Cost of the service
…
…

Platform categories (1st clustering)	
Collaborative platforms	Generic (all phases)
	Design phase
	Construction phase
	Operation & maintenance phase
	Demolition & renovation phase
Object catalogues	
Product catalogues	
Data and analytics platform	
Materials re-use (circular economy)	
Inventory & supply chain management	
IoT Platforms	
Marketplace for materials	
Marketplace for digital services	
Risk management	
Other	

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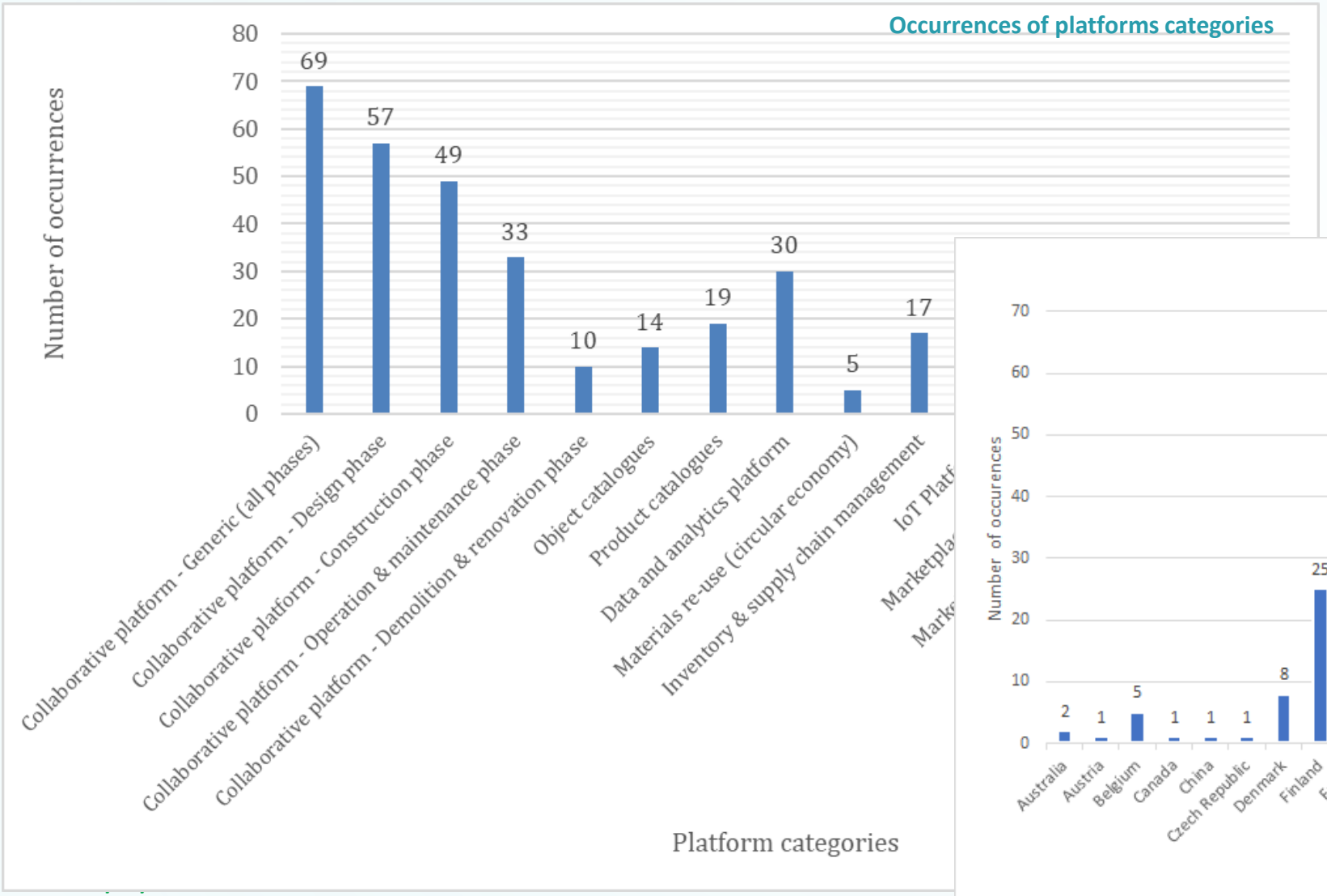
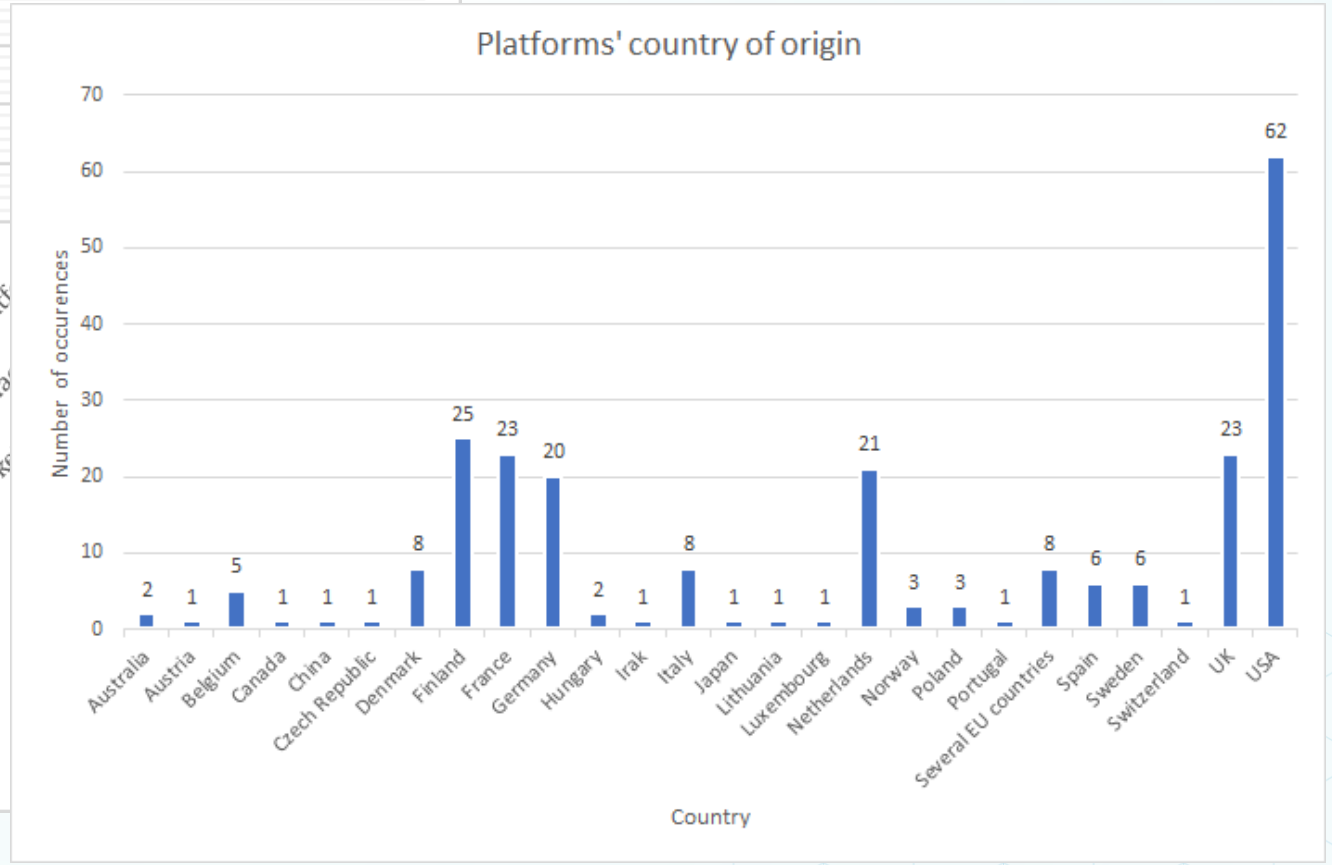
T3.1 – Characterization of existing platforms & 1st clustering



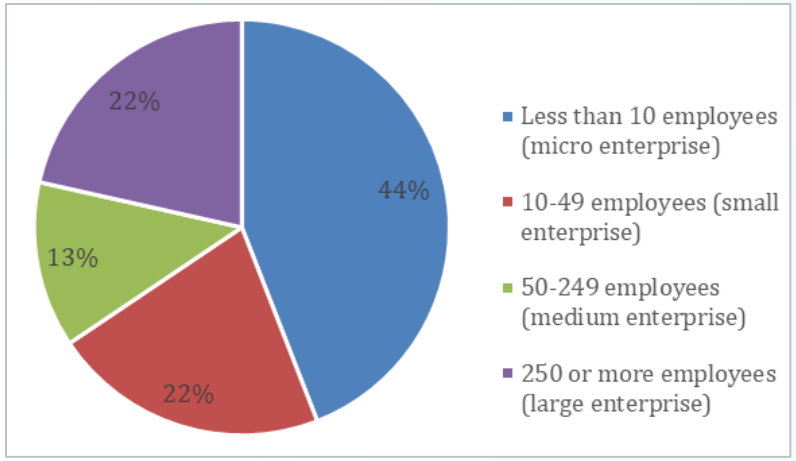
- 300+ digital platforms listed
- Around 200 of them characterised (with the previous criteria) and clustered

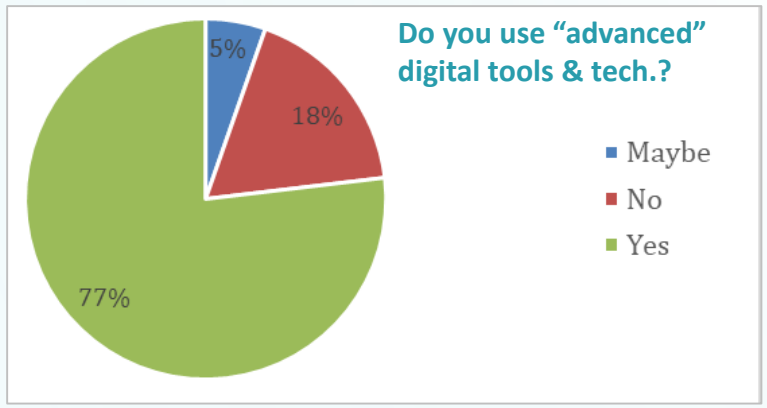


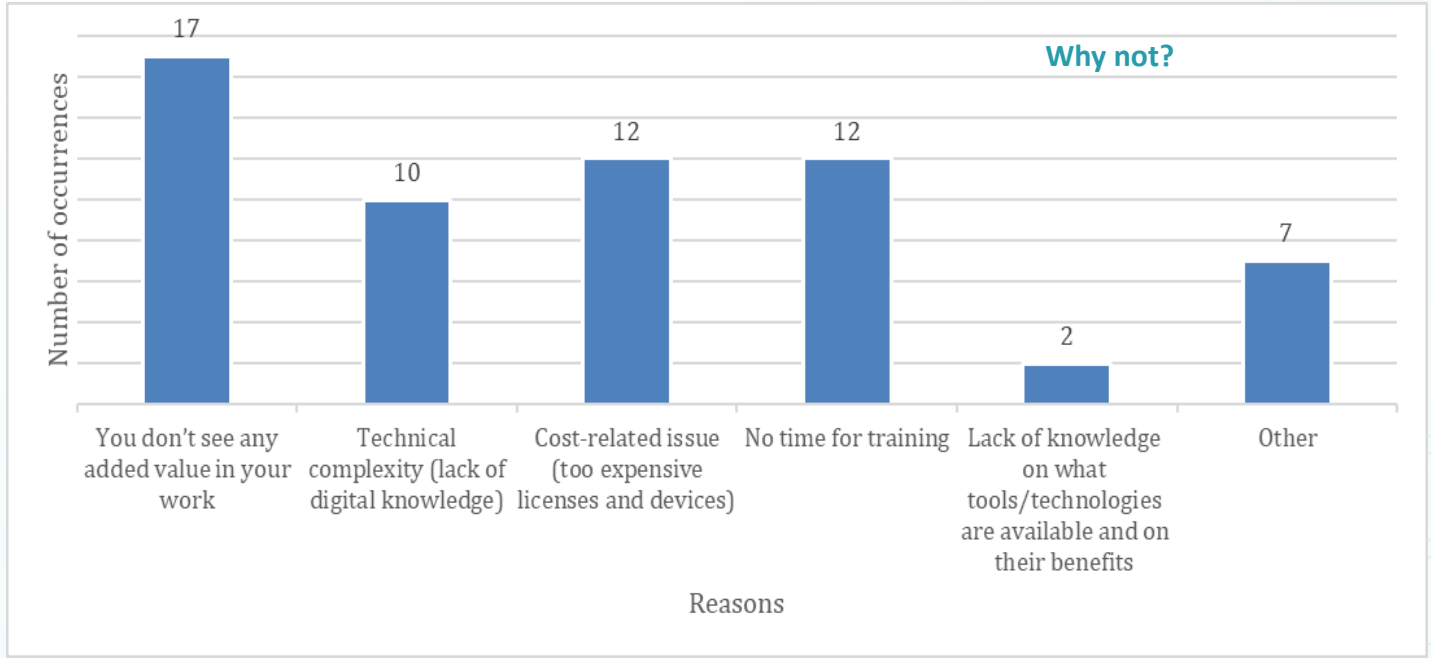
T3.1 – Online survey (1/3)

- Disseminated among “practitioners” of the construction sector *(currently still opened here)*
- 186 responses, in 17 countries
- Provides a snapshot of :
  - Their digital practices in the “real-world”
  - What tools are used, why and how
  - Their vision of digitization and their actual needs
  - Etc.

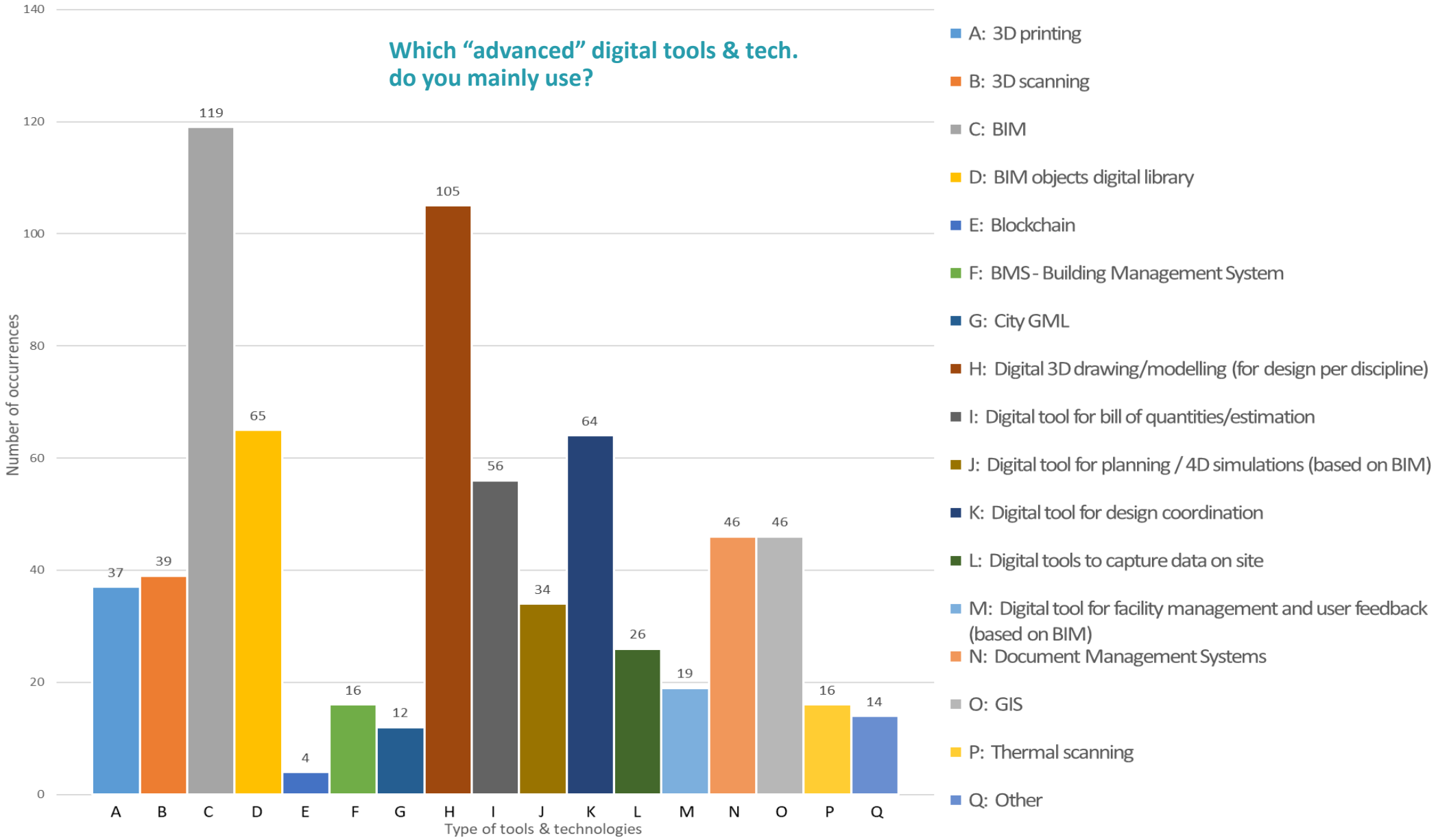
Size of companies/org. who answered the survey







T3.1 – Online survey (2/3)



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T3.1 – Online survey (3/3)

Many inputs received on:

- The added value of digital tools & tech. that practitioners see in their work
- The obstacles faced by practitioners in their digitalisation & the features/functionalities they actually need

	Added value	Obstacles and missing features/functionalities
Main categories of the inputs received	Project efficiency & management *(11 items)*	Standards and formats *(11 items)*
	Business/economics advantage *(6 items)*	Interoperability and connectivity *(3 items)*
	Service to the client *(2 items)*	Technical features *(5 items)*
	Data & technical aspects *(2 items)*	Cost and accessibility *(4 items)*
		Lack of knowledge & openness in the construction sector *(2 items)*

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T3.1 – Interviews with key stakeholders across EU

- **Objectives:**
  - Refine (country by country) the digitalisation context of the Construction sector & other sectors
  - Collect examples & good practices

- **Main observations at EU scale for the Construction sector:**
  - Global low level of digitalisation, due e.g. to the cost of technologies/tools or a certain conservatism
  - Major gaps among companies in terms of size and subsectors:
    - Digitalised large companies vs. non-digitalised SMEs
    - Most digitalised: consultancy firms, then Architects, Planners, Engineers, Contactors...
  - Strong incentive to digitalise to increase margins (when applied on the whole value chain), productivity, quality, …, or simply to comply with clients' demands
  - Need for standards and harmonisation
  - Need to share good practices among public & private stakeholders
  - Large companies (technical & economic capacity)
    Tendering obligations (in part. by public authorities)
    Clients

Can be drivers for digitalisation, by setting digital practices & rules that SMEs and the whole value chain will have to adopt

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TOWARDS A EUROPEAN DIGITAL PLATFORM FOR CONSTRUCTION

T3.2
Comparative analysis of existing platforms in the construction sector and in other sectors

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T3.2 – Methodology

Selection of some representative Construction digital platforms

Identification of evaluation criteria

Detailed characterization of platforms & listing of features they offer/enable

Comparison

Same approach with other sectors (healthcare, agriculture, aerospace, automotive)

Interviews

Collect opinions, consolidate & validate the platforms analysis.
Show potential differences between what platforms offer and how end-users actually use them.

- Detailed & technical comparative analysis of existing platforms
- Key aspects to take into account for the development of DigiPLACE RAF
- Identification of implementation options existing on the market

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T3.2 – Platforms analysed

- Construction digital platforms and tools analysed:

	Company/organisation that developed the platform	Name of the platform analysed
1	ACCA software	PriMus-PLATFORM
2	ACCA software	usBIM.platform
3	Autodesk	BIM 360
4	Autodesk	Revit
5	Cardiff University	CUSP
6	CSTB	KROQI
7	Dassault Systèmes	3DEXPERIENCE
8	IBM	IBM Built Environment Platform
9	GRAPHISOFT	ARCHICAD
10	GRAPHISOFT	BIMcloud
11	TNO	BIMserver.org
12	Trimble	Trimble WorksManager
13	Government of Estonia	E-Construction

- Global context and a few representative digital platforms for each of the sectors considered: healthcare, agriculture, automotive, aerospace.

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T3.2 – Evaluation criteria

- Assess the characteristics of existing platforms (architecture, functionality, services provided, standards, adapted LOD, etc.):
  - **Use case and services**: features proposed by the platform and the way they are implemented (40+ items)
  - **System functioning**: how the platform works in terms of data management, architecture, etc. (30+ items)
  - **Usability**: how the platform is adaptable to different kinds of users and needs (10+ items)
  - **Economic factors**: cost of the platform and potential packages available (8 items)

- Some examples for the “System Functioning” criteria:

Technical features	3D modelling
	Calculation/data capacity
	CDE (Common Data Environment) funtionalities:
	-->Data format convertion tool availability
	-->Data storage
	-->Data viewing
	-->Linked data
	-->...
	Cloud architecture
	Data sharing and diffusion
	Input data
	...

Data security and GDPR	Compliance with the GDPR
	Data property
	Data storage (Where & how? Possible to chose the hosting country?)
	Property of the system
	Possibility to delete all the user's documents (incl. the backup files)
	...
Robustness	Maturity of the system (incl. support, documentation, etc.)
	Compatibility between different versions
	Compatibility between different softwares
	...

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T3.2 – Main observations (1/2)

- The analysis provides a representative listing of what can be found on the market for all these criteria. The RAF will consider them and make recommendations.

- Remarks for Construction platforms:
  - “Collaborative platforms” offer a vast array of use cases & services, under many different forms
  - If not directly integrated in the platform/tool, still often possible to access services through APIs
  - Use of many formats, extensions, linked services, standards, etc. across software

- Major issues for all sectors for the development of a large scale digital platform:
  - lack of standardisation
  - low interoperability of software & services

  Further development of IFC standard could be an answer. But other approaches could be considered, e.g. the protocol-based standards in Healthcare.

- Some services/features are not properly answered in the Construction sector (e.g. Machine Learning, Product Lifecycle Management, Requirements for Documentation) and could take example from developments in other more “advanced” sectors such as Aerospace.

- Some interesting concepts identified, especially from the Healthcare sector:
  - Horizontal platforms
  - Integration & development platforms

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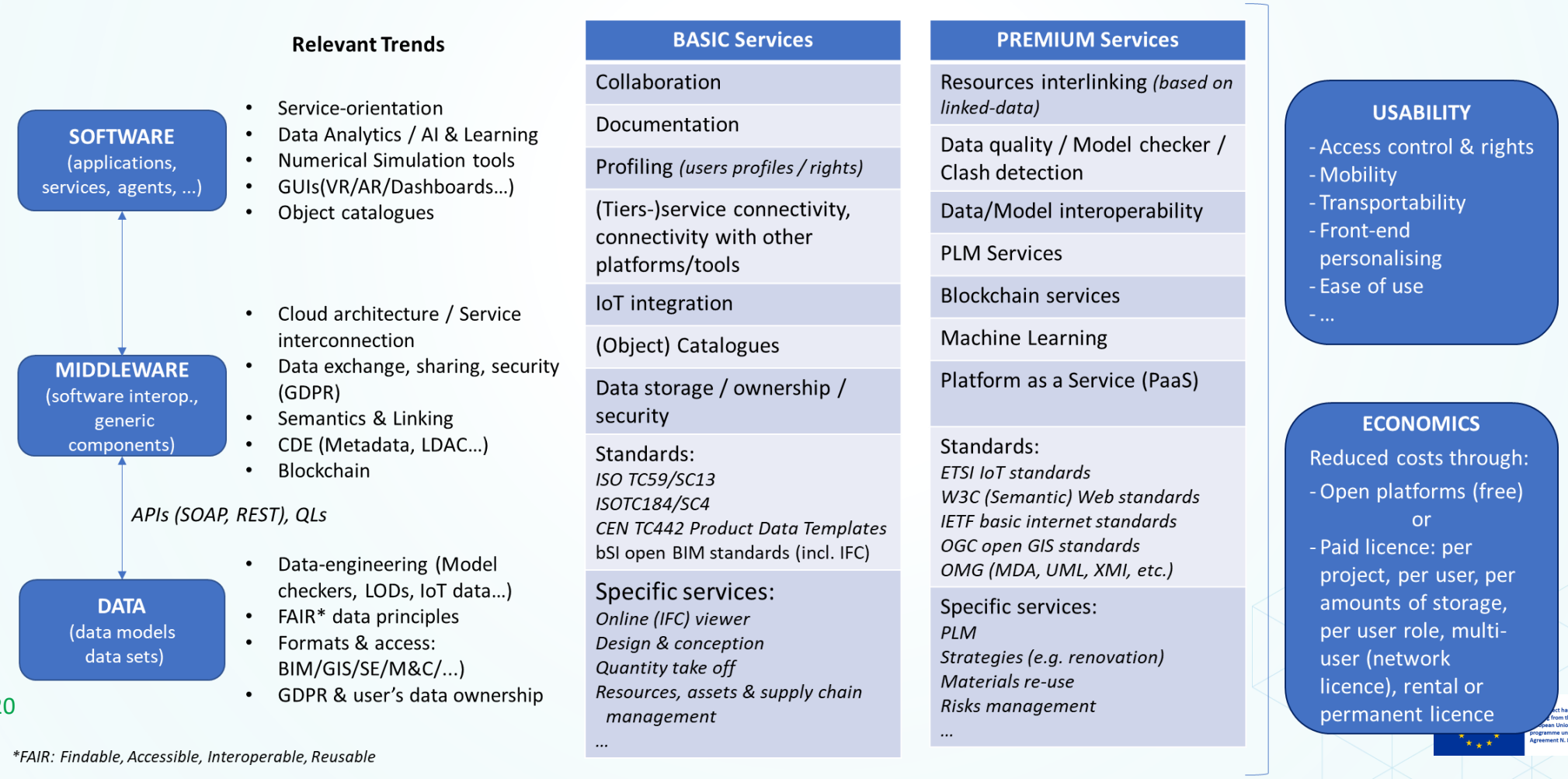
T3.2 – Main observations (2/2)

- Preliminary agreement on the definition of a digital platform - at least in the context of DigiPLACE:

Operating system that enables to plug-in services and to give access to data, with the possibility to connect to other platforms, tools or applications via APIs.



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*FAIR: Findable, Accessible, Interoperable, Reusable

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T3.3
Impact analysis and success factors for the identification of possible points of knowledge transfer

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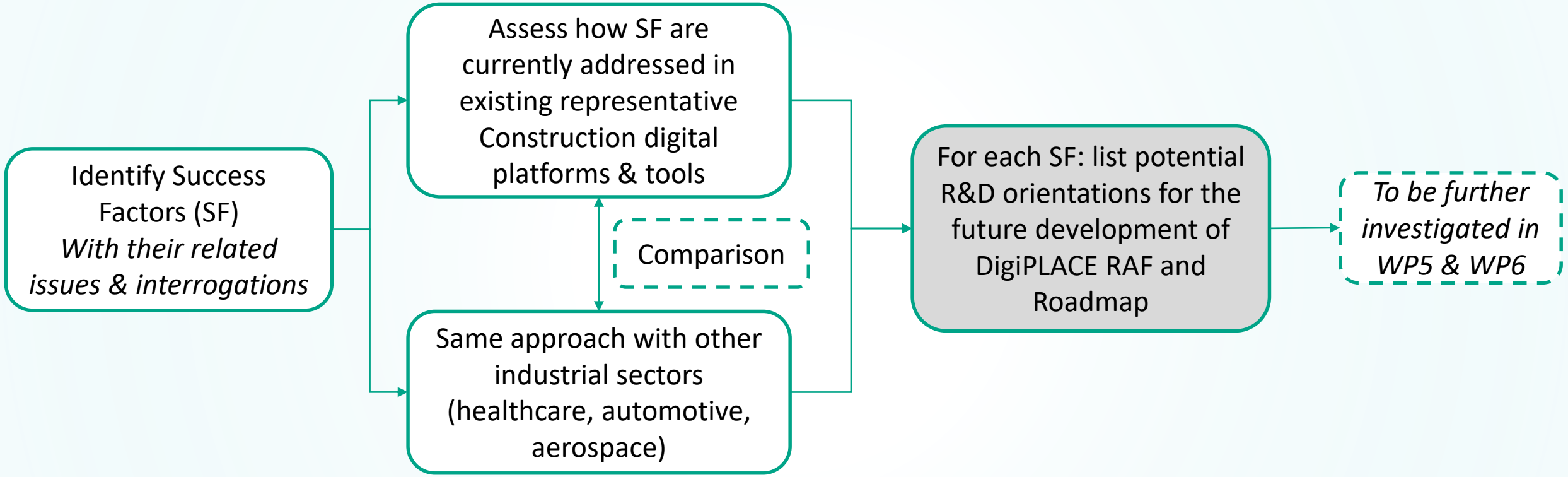
T3.3 – Methodology



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T3.3 – Success Factors

Success Factors: focus points that the DigiPLACE RAF should consider, in order to fulfil the objectives of the DigiPLACE project.

	TECHNICAL ASPECTS
1	Interoperability and sustainability
2	Collaboration enabler
3	Single entry point
4	Capacity to connect several platforms both at regional and national levels
5	Integration of both public and private data
6	Easier circulation of / access to services and products
7	Maintenance of data
8	Maintenance and update of the services
9	Adequate backup of data
10	Be customizable
11	Be scalable and dynamic (provide an environment able to integrate new/existing tools)
12	Efficient and fast data management and data queries

	DEMAND / REGULATORY ASPECTS
13	Capacity to check compliance with regulations & certifications
14	Capacity to answer the demand/needs of every kind of stakeholder
15	Relying on the national level, by interconnecting with national platforms

	ECONOMIC ASPECTS
16	Identification of clear funding mechanisms / systems (analysis of the economic sustainability of the platform)
17	Identification of business cases for all stakeholders
18	Increase of the competitiveness for all the value chain

	SECURITY ASPECTS
19	Information and data security
20	GDPR compliance

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T3.3 – Main remarks on the comparison between sectors (1/2)

- Many industries share common elements of context:
  - impetus for digitalisation
  - need for more cross-boarders/sectors cooperation
  - increasing amount and complexity of the data to deal with
  - need to comply with new regulations
  - need to standardise practices and formats, e.g. to facilitate cooperation projects
  - etc.

- Thus, SF added-value is not limited to Construction. SF are addressed in other sectors, e.g. standardisation:
  - All have adopted - or tend to adopt - international standard formats and APIs.

    E.g. IFC standard, promoted by many stakeholders in the Construction sector, is also used in Healthcare and Aerospace
  - Some sets of standards are very specific to sectors

    E.g. ISO TC184 series for automation process in Aerospace

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T3.3 – Main remarks on the comparison between sectors (2/2)

- Major differences in the comprehension of the purpose & characteristics of platforms:
  - The need for interconnected platforms, with an important role for public authorities at regional/national level, seems more adapted to fragmented sectors (Construction, Agriculture) where the markets and regulations have as well mostly remained national.
  - Interconnected national platforms are not really considered in sectors like Aerospace and Automotive, where the market is dominated by fewer & bigger service providers having their own proprietary solutions.

- Inspiration could be taken from other sector for specific feature. E.g. regarding private data protection in Healthcare.

- The concept of RAF, in the sense of DigiPLACE, does not seem to be existing in the other industrial sectors - at least the ones studied here.

- A structure enabling to fulfil the 20 previous success factors (and maybe others) would certainly help the Construction sector to catch up on digitalisation compared to other sectors, as well as to become more attractive

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T3.3 – R&D orientations and next steps

- For the future development of an EU digital platform concept, T3.3 has exposed a certain number of:
  - Challenges
  - Open questions
  - Possible ways of implementation

Refer to D3.3 for the complete listing

- Based on these observations and on the expertise of the stakeholders involved in the project, a list of R&D orientations for each Success Factor has been made.

From there and from the other WP3 inputs:

- *WP4 → further descriptions and possible solutions to the barriers identified*
- *WP5 & WP6 → further analyses, compare potential ways of implementation, etc., and ultimately to provide final answers through the development of the DigiPLACE RAF and Roadmap.*

- Crucial questions will have to be answered in priority, since they will necessarily orientate the way to consider many Success Factors. E.g.:
  - Should DigiPLACE foresee the possibility of allowing users to work on a collaborative construction project or not (i.e. from an engineering point of view)?

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OUTLINING the DigiPLACE REFERENCE ARCHITECTURE FRAMEWORK

Nicolas NAVILLE
CSTB

29/4/2020

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OUTLINE

- What is DigiPLACE Reference Architecture Framework ?
- Defining DigiPlace key Use Cases

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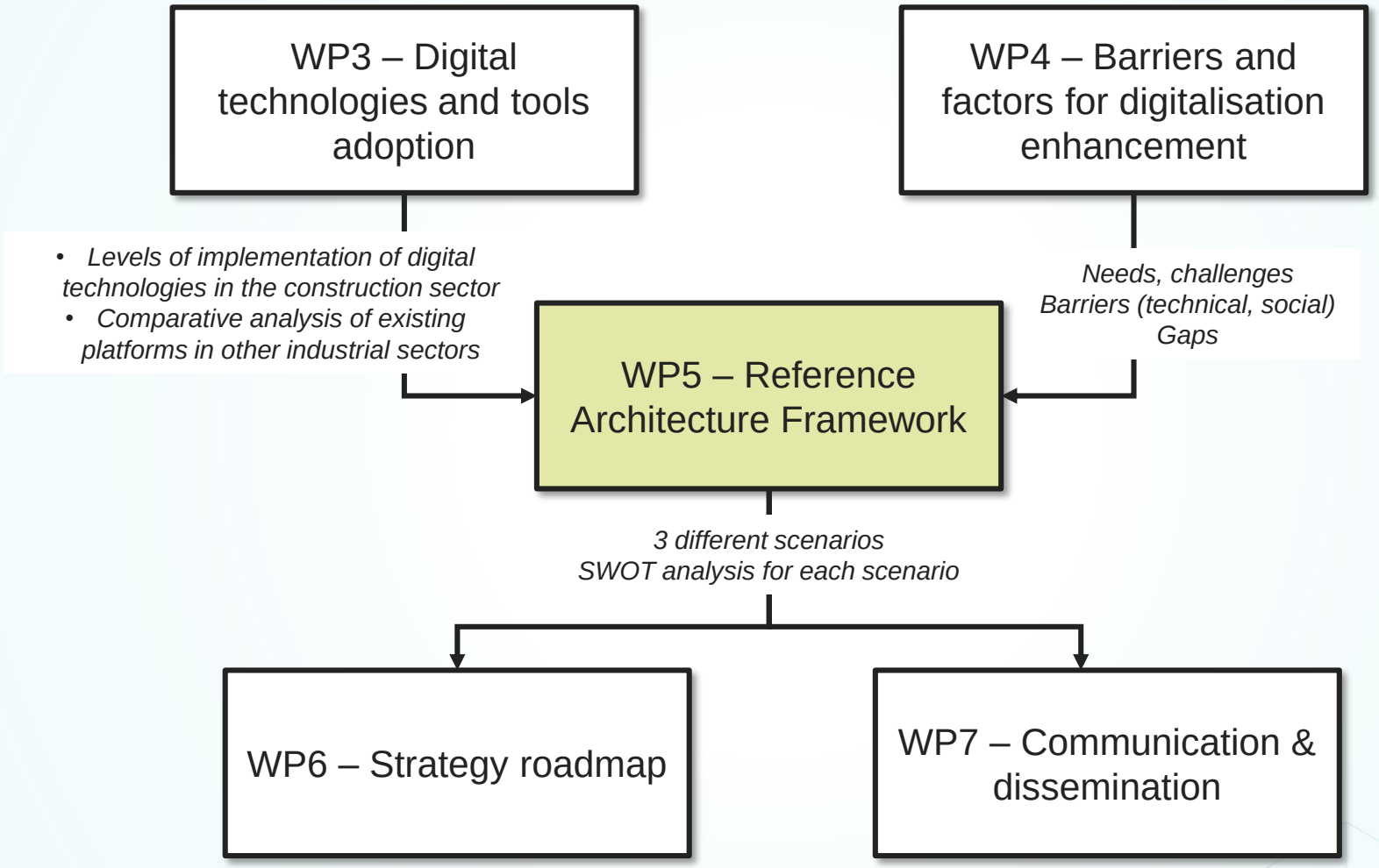
Core of DigiPLACE project



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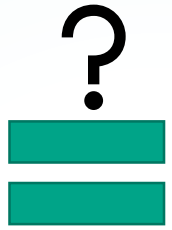
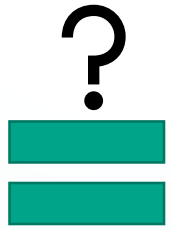
What is the Reference Architecture Framework ?



A new european digital construction platform ?

Reference Architecture Framework



Common guidelines for building and implementing digital platforms for the construction sector across europe (public or private, local or european…)

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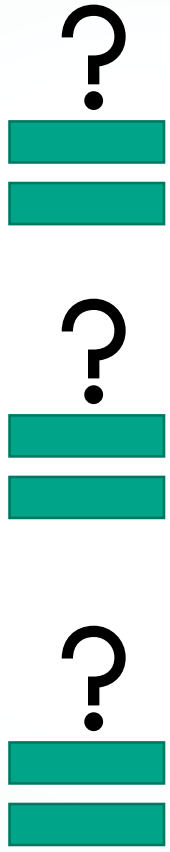
What is the Reference Architecture Framework ?

Reference Architecture Framework



A new european digital construction platform ?

Provide common services and tools to help connect/integrate existing platforms ?

Common guidelines for building and implementing digital platforms for the construction sector across europe (public or private, local or european…)

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What is the Reference Architecture Framework ?

Reference Architecture Framework

=

A new european digital construction platform ?

=

Provide common services and tools to help connect/integrate existing platforms ?

=

Common guidelines for building and implementing digital platforms for the construction sector across europe (public or private, local or european…)

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Identifying DigiPLACE key use cases

- A Reference Architecture Framework … to answer Use Cases

- Key use cases of DigiPLACE : WHAT ? WHAT FOR ? HOW ?

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Use cases : underlying objectives

- Environmental performance, climate change
- Industry 4.0, productivity gains, common language, interoperability
- Digitalization of SMEs
- Knowledge sharing, mutual learning, best pratices exchange
- Data sharing, artificial intelligence tools
- Market integration and strengthening: call for tenders, supply chain management, smart contracts, IPR…
- Integrating other European initiatives : LEVELS, CPR, Building Passport, European Building Stock 2.0…

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Use cases definition : several inputs

WP3

3.1	Implementation level of digital technologies
3.2	**Comparative analysis of existing platforms**
3.3	**Impact analysis of technology transfers**

WP4

4.1	Social and technical barriers
4.2	**Sharing data : willingness and tools**
4.3	**Needs & expectations of stakeholders, SMEs**
4.4	**Measures to mitigate barriers**
4.5	Pilot case studies for proposed measures

T5.1 : Use Cases and specifications

A	Key use cases : Identification, investigation
B	Technical expectations and specifications
C	High level specifications

Questions to answer :

- Do existing services answer the core objectives, the needs and barriers identified ?
- What is missing in the current situation ? Where are the shortcomings ?
- How to fill the gap ?
- How better european integration can improve things ?
- What should be replicated from other sectors ? Generalized at European scale ?

T5.2 : Reference architecture framework
(3 scenarios)

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Use Cases definition : overview of identified topics

Area	Examples of use case categories
Common language, interoperability	Interoperable product/object data databases
	Provide a map of existing digital standards
Regulations	Access to national construction rules, rules checking tools
	Cadastre, urban and real estate data retrieval
Knowledge sharing	Sharing of private data with AI analytics
	Best practices exchange on BIM projects
Collaboration tools	Common guidelines for BIM services to improve interoperability
Business, market	Supply chain management (industry 4.0, off-site, link between conception and manufacturing)
	Dedicated tools/servicse for SMEs digitalization
Environmental performance (transversal)	Ease access to Environmental Produc Data
	Provide LCA tools, collect and analyse LCA data

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Next steps

- In progress : brainstorming for the definition and description of key use cases
  > Identify use cases and build a consensus among European stakeholders
  > By September 2020

- Building scenarios for the Reference Architecture Framework (T5.2)

- Strategy Roadmap (WP6)

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DigiPLACE
TOWARDS A EUROPEAN DIGITAL PLATFORM FOR CONSTRUCTION

Q&A

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CONCLUSION

Riccardo VIAGGI

CECE Secretary General

29/4/2020

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Community of Stakeholders

DigiPLACE
TOWARDS A EUROPEAN DIGITAL PLATFORM FOR CONSTRUCTION

Join the DigiPLACE Community of Stakeholders and actively contribute to building the European Digital Platform for the construction ecosystem.

You have the opportunity to be heard and have your inputs valued!

Go to the registration page
or use the QR code

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THANK YOU!

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