



EDIH

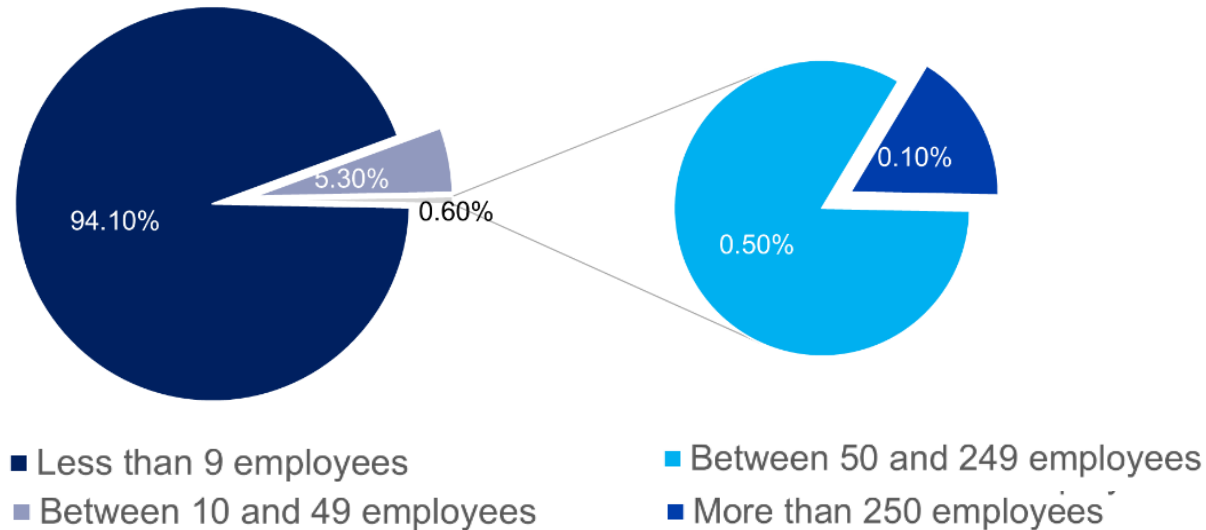
European
Digital Innovation
Hubs Network

Webinar on Construction sector

EDIH experience

12/12/23

The construction sector is large and very **fragmented**, with 99% of the companies being SMEs



European Construction Sector Observatory

In Belgium, the sector involves +- 280.000 employees (30% of total employees), with 80.000 persons in Wallonia.



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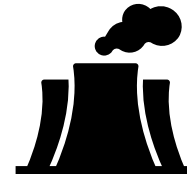
Construction faces tremendous environmental challenges



50%



33%



37%




25-33%

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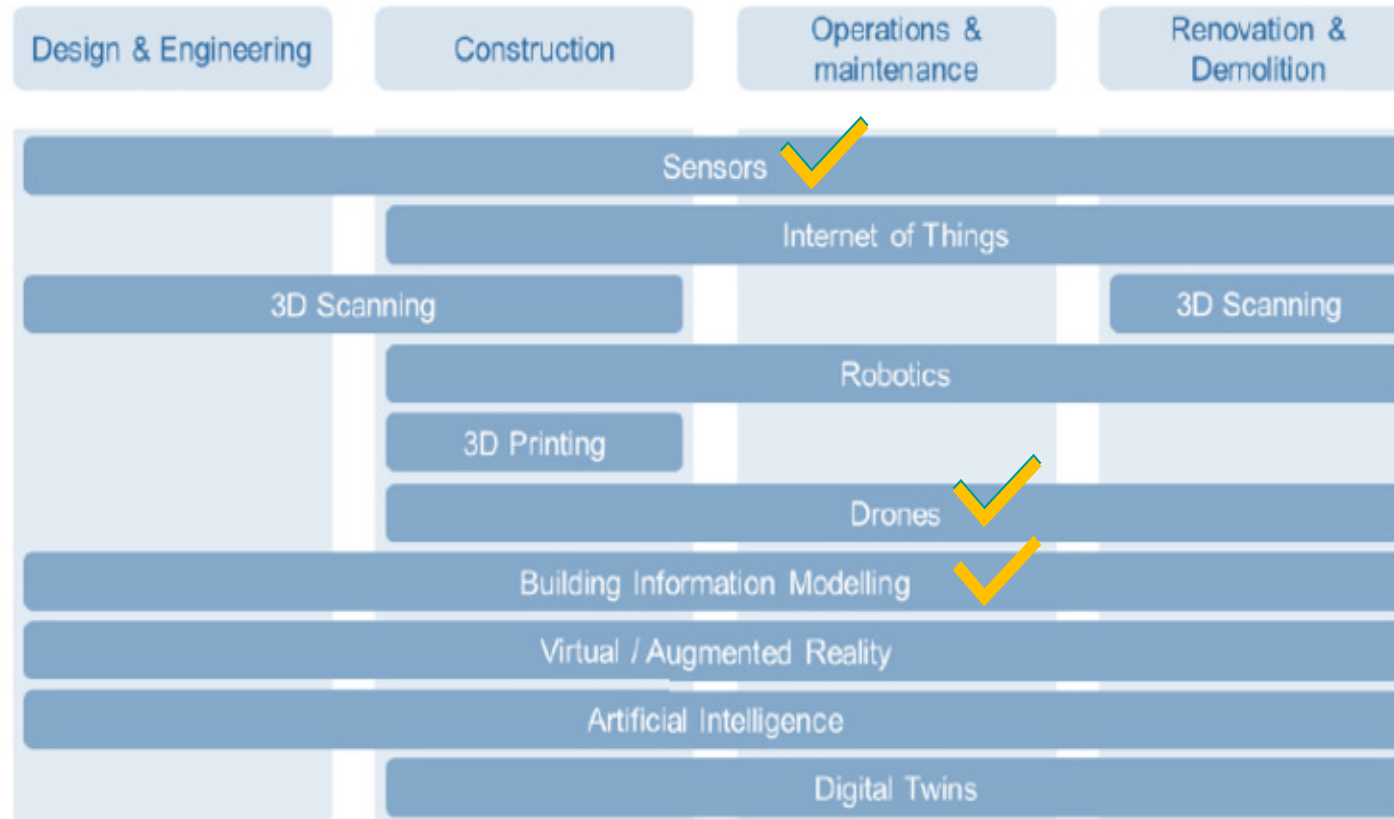
The construction sector is among the least digitized

McKinsey Global Institute industry digitization index; 2015 or latest available data

Relatively low digitization  Relatively high digitization
 ● Digital leaders within relatively undigitized sectors

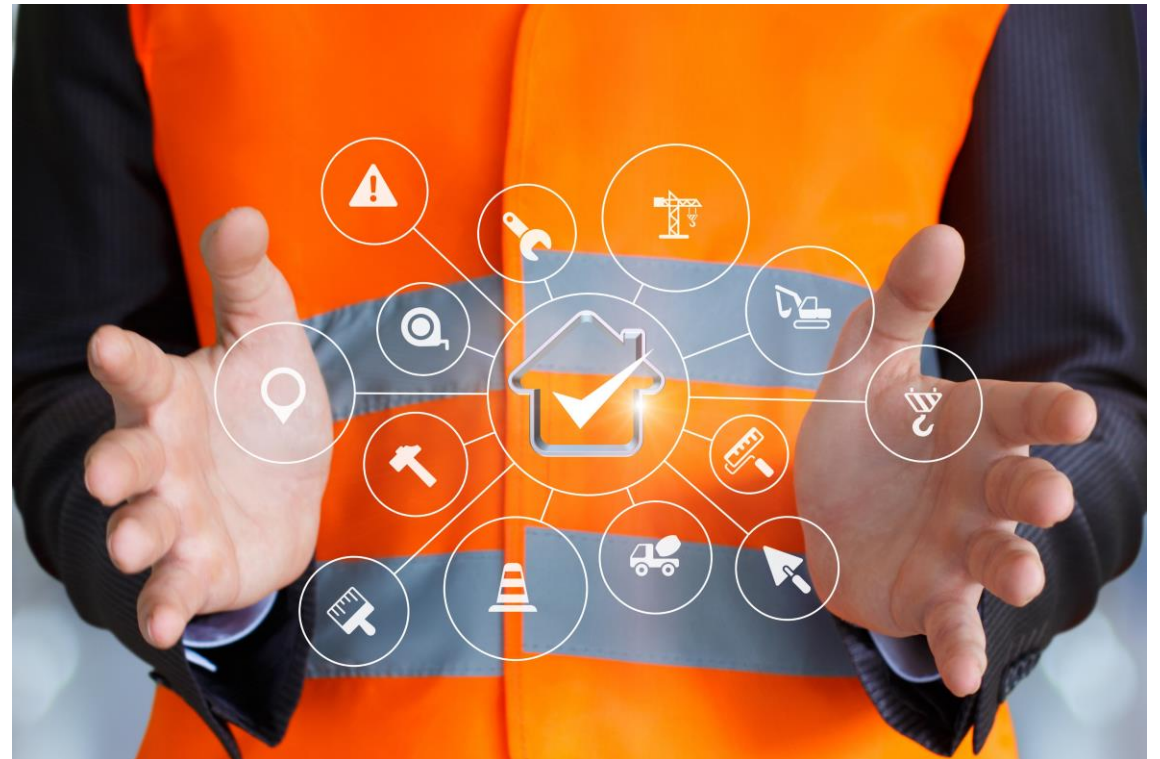


Multiple digital technologies along the value chain,
with very different market maturity



Digitalization is a key strategy to

- **Decarbonize** the built environment
- Digitalize and **integrate** the construction industry
- Ensure **security** of citizens against physical and cyber threats
- Address ageing of **infrastructures**
- Preserve and valorize cultural **heritage**
- **4-6% cost reductions**
- **14-15% productivity gains**



Our Commitment

To accelerate the adoption of digital technologies by **increasing the level of EU collaboration**



WORKING GROUP
ON
CONSTRUCTION





Presentation of the WG Construction



EDIH

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9 EDIHs

fully dedicated or with
a strong focus on **the
construction sector**





Connect

Moderator of the
working group



FAIR
Finnish AI Region | EDIH


EDIH-EBE

Connect

 **EDIH**
Südwestfalen


KIELCE
TECHNOLOGY PARK


Asturias Digital
Innovation Hub
AsDIH

DB
DIGITALBUILT
DIGITAL INNOVATION HUB

 **DIHCUBE**

 **DIGITAL
CONSTRUCTION
HUB**



Objectives of the WG

The thematic **working group on construction** is made of a dynamic group of EDIHs, with a strong focus on constructions, which have agreed on **collaborating and create added value for their companies** by accessing and sharing at EU level their experience, know-how and tools, with the ultimate goal of providing companies the most appropriate support, increase their knowledge on concrete digital applications and services, provide better access to regional, national and European funding and **to enhance SME and PA their digital maturity.**

Foreseen activities of the WG

- Share the challenges encountered for the construction sector in their respective countries
- Share the issues related to the project implementation and to provision services to SMEs
- Share strategy, tools and services to address these issues
- Share best practices, services and initiatives in a cross country mode
- Discuss how to integrate the DMA for the construction sector
- Identify and share EU funding opportunities,
- Boost the generation of new collaborations among EDIHs stakeholders
- Cascade communication between EDIHs
- Facilitate the connection to other EU and country based- initiatives dedicated to the construction sector.
- Create a common digital innovation ecosystem at EU level



EDIH

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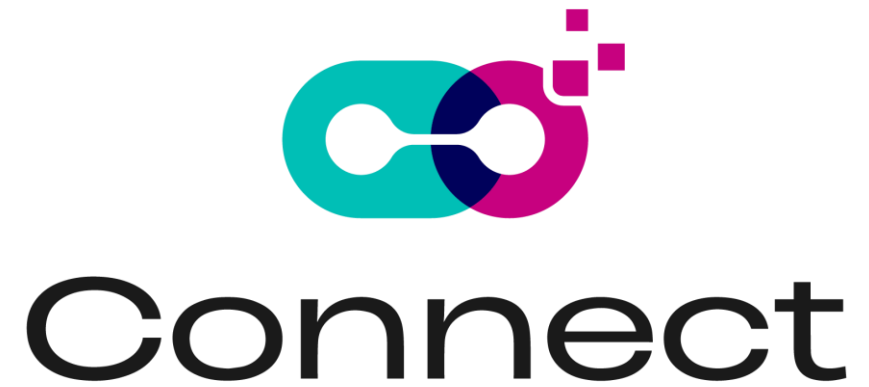
Latest activities

- Share best practices on the digital maturity assessment
- Discuss the implementation of DMA for the construction sector
- Share issues related to national funds, divergence between regional and EU criteria, reporting,...
- Search for international experts
- Share funding opportunities opened to other countries

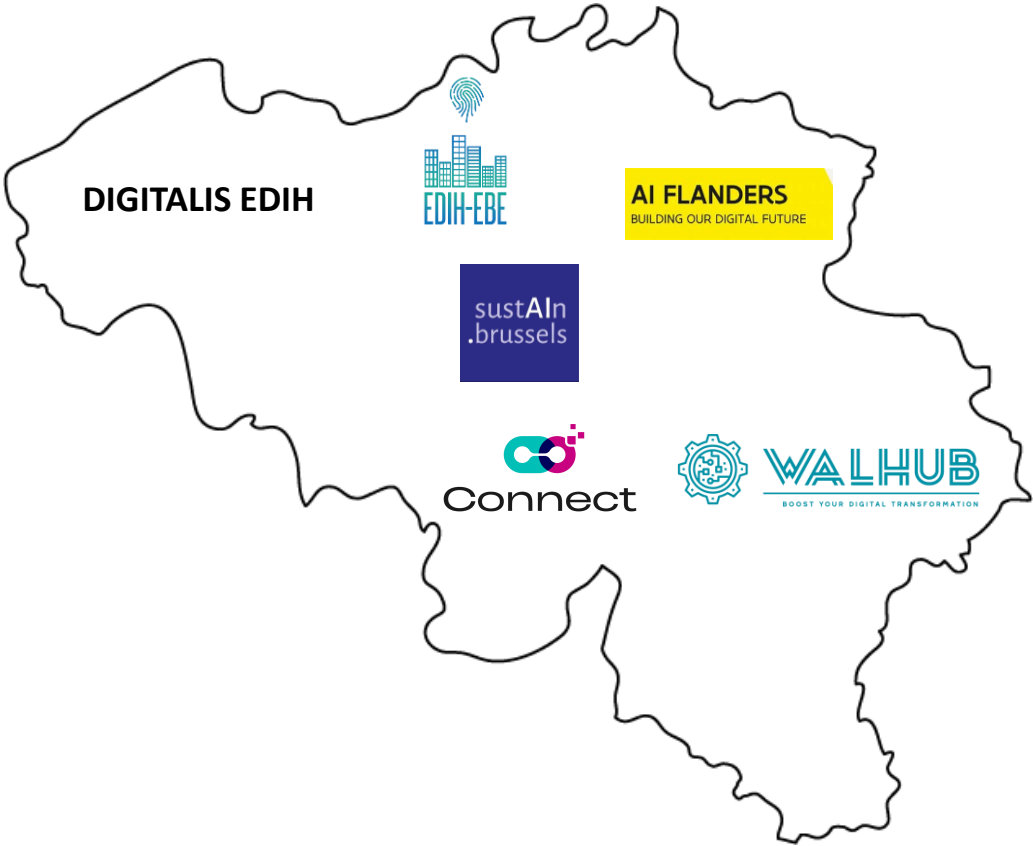


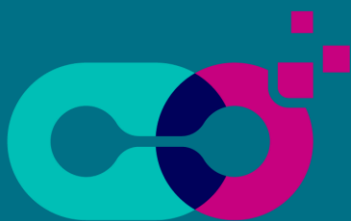


Presentation of EDIH Connect



EDIHs IN BELGIUM





Connect

A European Digital Innovation Hub
dedicated to the **construction sector**

Avec
le soutien de la

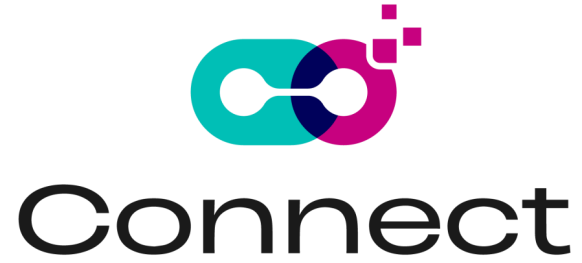


Wallonie

digital
wallonia
.be



Co-funded by
the European Union



Project starting date: December 22

Duration: December 25

Funded

90%

Avec
le soutien de la



Wallonie

digital
wallonia
.be

10%



Co-funded by
the European Union

PARTNERS



OUR TARGETS

1° - **Contractors**

2° - AECO sector

(architecture, engineering, construction, & operations)

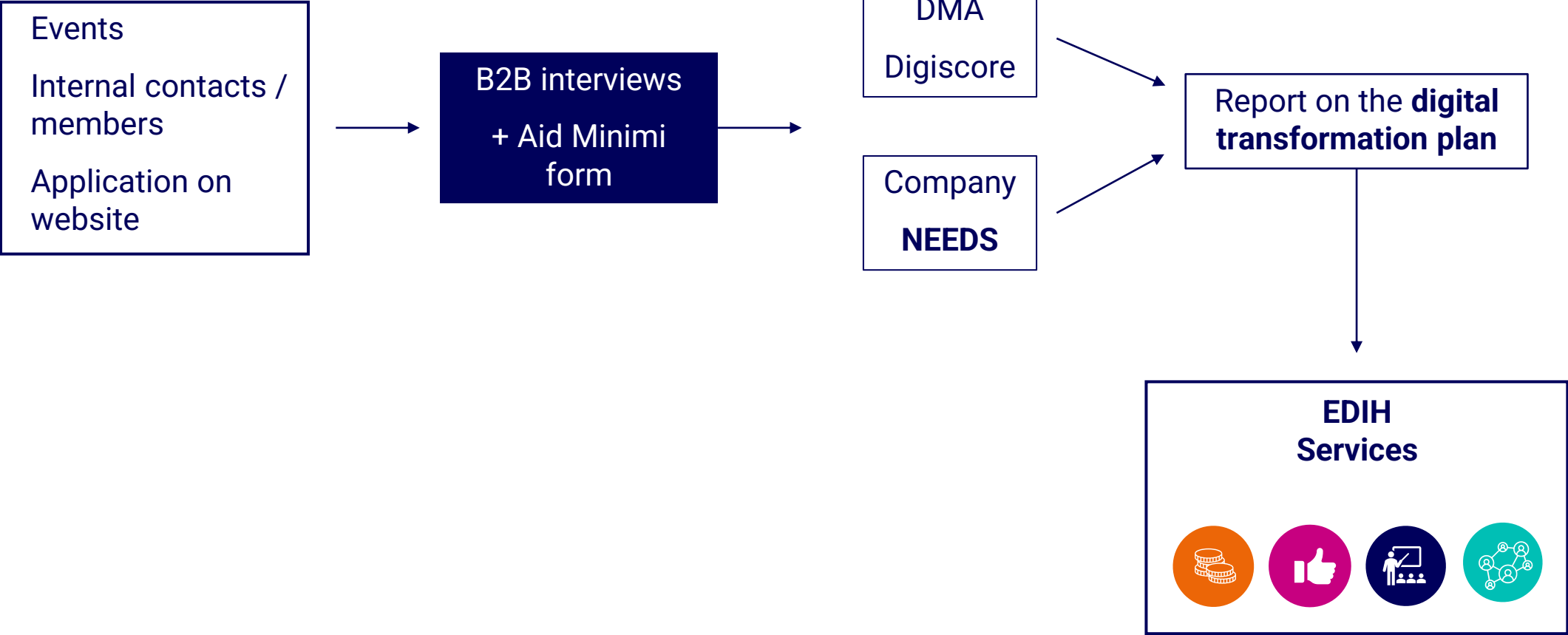
3° - Technological solutions providers

4° - Public sector

Digital technologies

We are embracing the full spectrum of digital technologies, adapting to company's needs

OUR PROCESS



PILLARS

*Maturity evaluation,
financing*



*Testing,
technical expertise*



*Skills, compétences,
training*



*Innovation ecosystem,
partnership, cooperation
projects*



ACTIVITIES / SERVICES

Digital maturity assessment via B2B interviews

Tool kits for contractors (financing opportunities, training,...)

Success stories

Access to the demo center (innovative technology)

Support to select the appropriate solution or to develop specific solutions

Roadmap of existing trainings / courses

New training modules and tools

B2B meetings to enlarge the ecosystem

Workshops for innovative projects & identification of funding opportunities

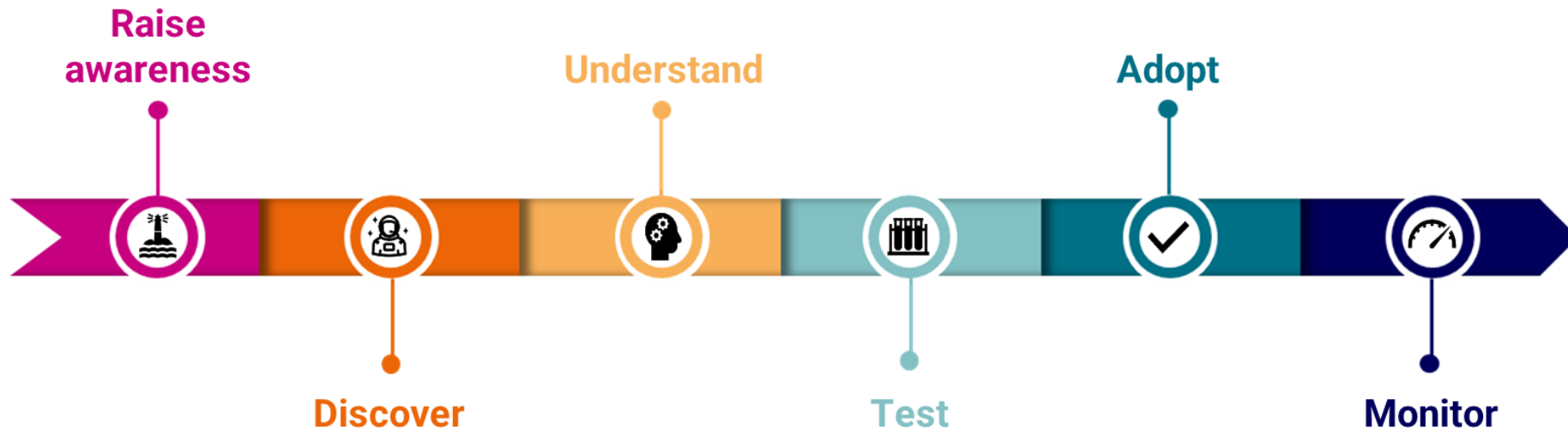
WG Construction

AWEX missions

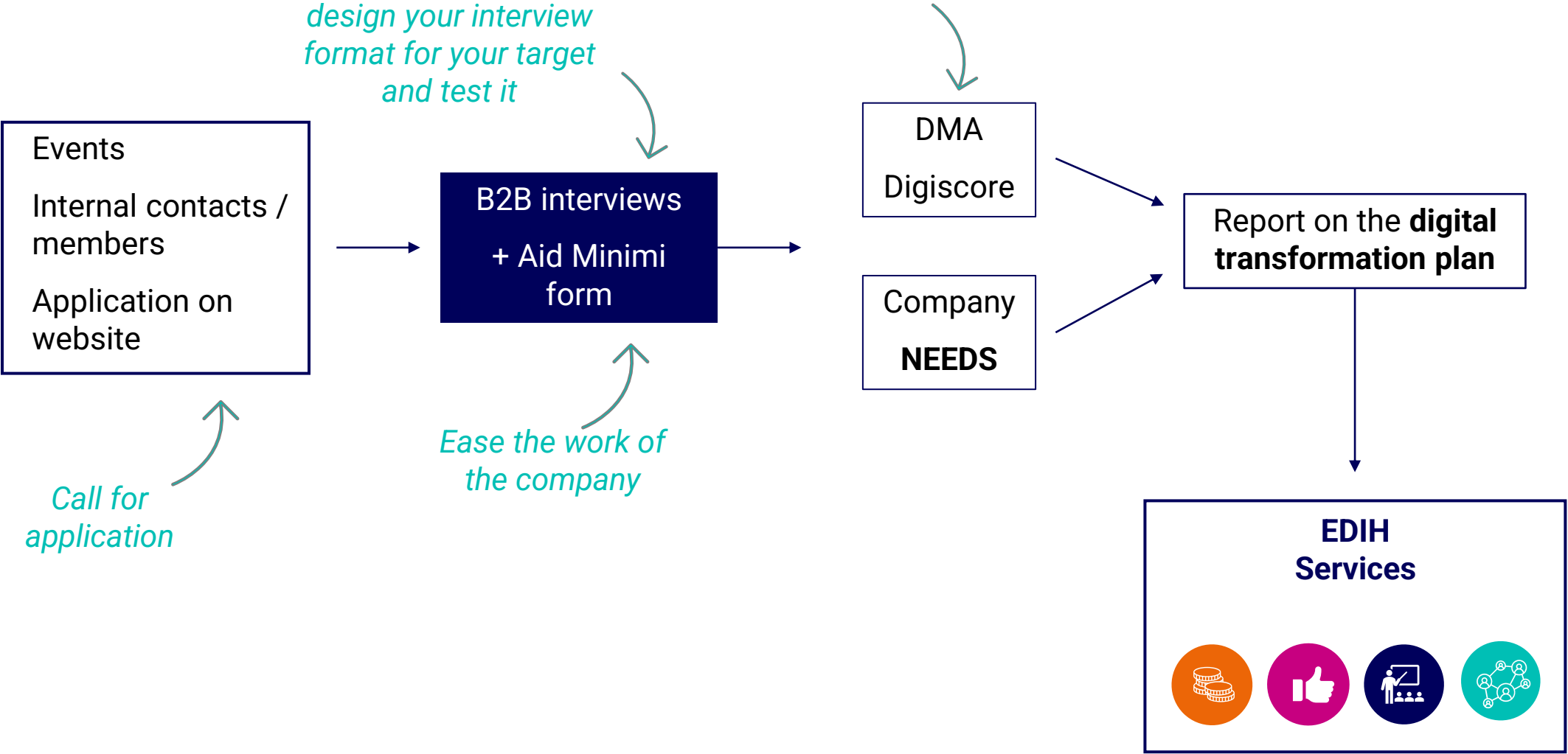
Events organisation

OUR CHALLENGE

Be able to **reach and persuade very small SMEs** of the construction sector to invest in digital competence and in technologies, and overall, to increase their digital maturity



OUR PROCESS – Some tips



OUR FEEDBACK AFTER 1 YEAR



Slow start of the activities



Re-evaluation and adjustment of services according to company needs :

- Support to build files for investments, proposals for R&D projects
- a longer support to companies (after the report) may be in favor of the actual implementation



Innovation:

- Co-creation events need a deep preparation to end up with project ideas and consortia
- boost the innovation with technology providers and with 'not too small' companies



Events should be wisely thought and organised (and not only to comply with KPI)



Success stories are an ideal tool to attract and convince companies (e.g. event with presentation of a success story followed by networking)



Presentation of DIH CUBE



**Digital Italian Hub for Construction
and the Built Environment**



ANCE |

DIHCUBE PROJECT

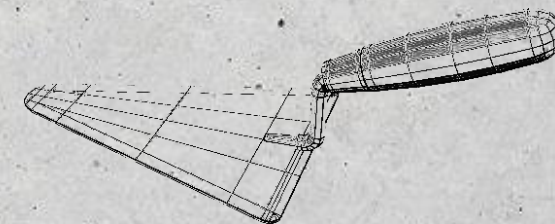
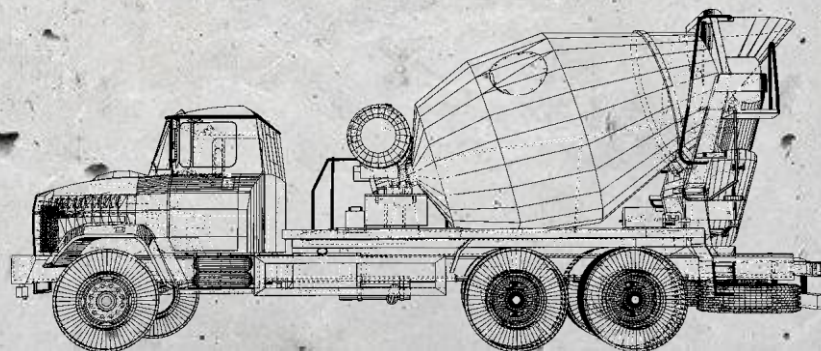
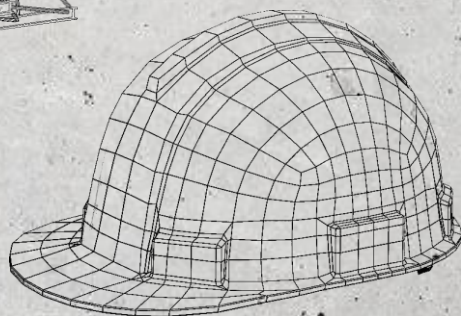
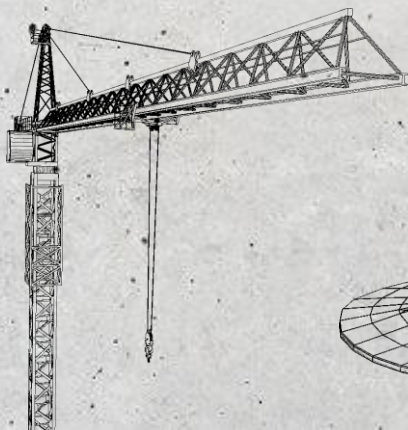


Cofunded by the European Union

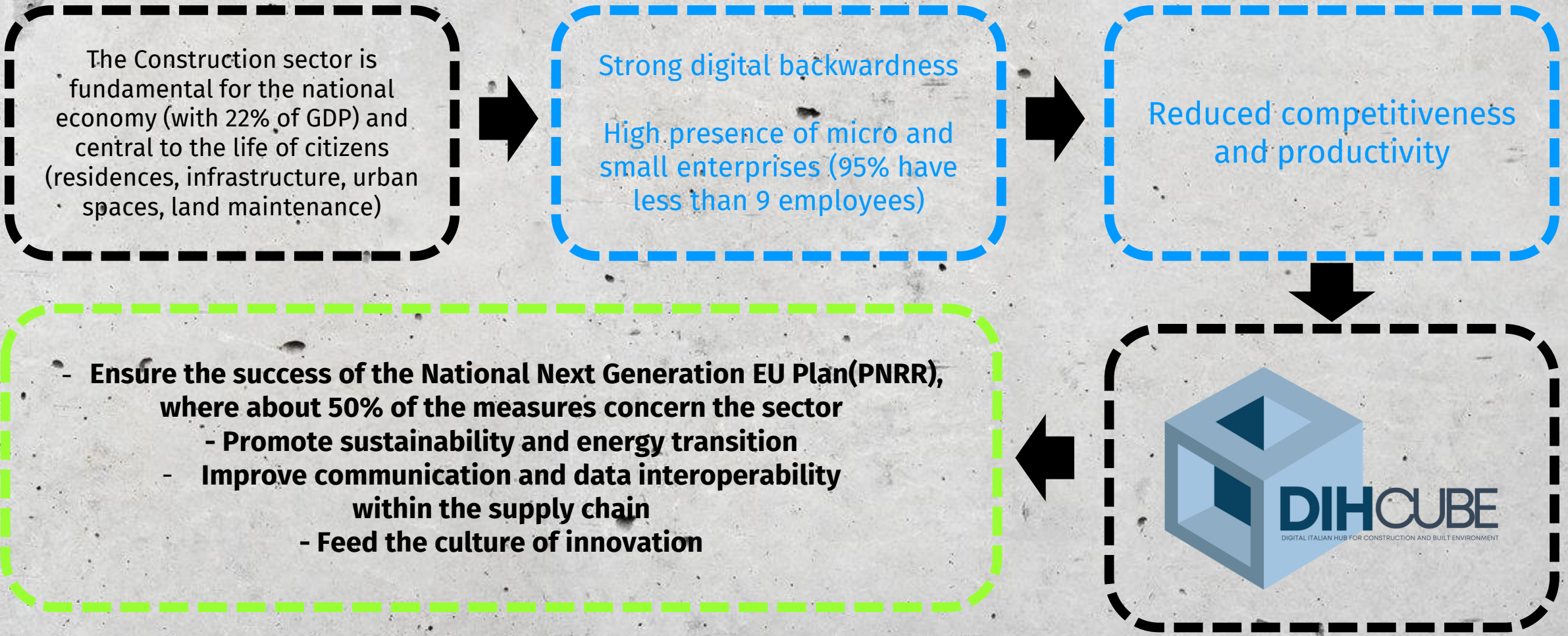
DIHCUBE Project/mission

DIHCUBE is the Italian Digital Innovation Hub for construction and the built environment. It is part of the European Digital Innovation Hub network and is funded by the European Commission and the Ministry of Enterprise and Made in Italy (in progress).

DIHCUBE is a strategic project focused on the diffusion of innovation and the digitization of the construction sector.



DIHCUBE Project/tasks



DIHCUBE Projecy/services targets

All companies and entities in the construction sector, especially SMEs

Construction companies



Specialized operators



Manufacturers of materials, components and machinery



Procurement entities and real estate managers



Professionals and innovative services providers



Public bodies



DIHCUBE project/partners

Sector Associations:

ANCE (Coordinator)

Partners:

FEDERCOSTRUZIONI

R & D Entities:

CNR (National Research Council)

Politecnico di Milano – DABC (Milan Politechnic University)

STRESS- Distretto Tecnologico Costruzioni Sostenibili
(Sustainable building technological district)

Università di Brescia (Brescia University)

Università di Napoli Federico II (Naples University)

Università Politecnica delle Marche
(Marche Politechnic University)

Public Administration:

Ente Nazionale per il Microcredito
(National Agency for Microcredit)

Services Companies:

Officine Innovazione Srl

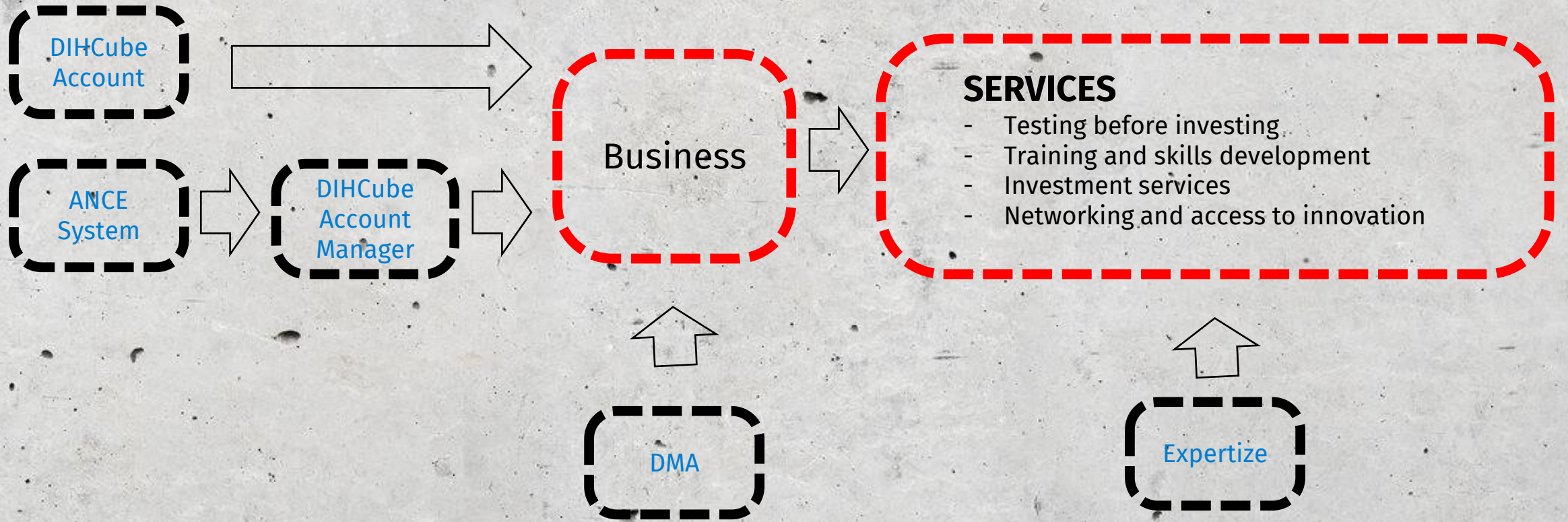
STAM Srl

SMILE-DIH

In the last 3 years DIHCUBE partners have been involved in about 60 innovation projects at regional, national and European scale. Of these, more than 30 were financed with the Horizon 2020 Program or with other European structural funds, such as the DigiPLACE project (2019-2021)



DIHCUBE Project/workflow



DIHCUBE Project/services 1

TESTING BEFORE INVESTING:

- Accompanying the sector to discover the new:
 - Assessment
 - Technology consulting
 - Pilot projects

DIHCUBE Project/services 2

Training and skills:

- Guide users to know and to know themselves:
 - Skills assessment
 - Gamification
 - Training
 - Public Bodies support

DIHCUBE Project/services 3

Investment services:

- Allowing ambitious projects to become reality:
 - Microcredit
 - Assessment of maturity
 - Opportunity tracking

DIHCUBE Project/services 4

Networking and access to innovation ecosystems:

- Creating a digital fabric able to communicate, grow and face the challenges of the future:
 - Start up
 - Events
 - B2B
 - Open innovation
 - Building innovation community

DIHCUBE Project/technologies

- # Cybersecurity
- # Artificial Intelligence
- # IoT
- # BIM - Building Information Modeling
- # 3D printing
- # Digital platforms
- # Digital surveys
- # Security
- # Machine control
- # Building energy monitoring
- # Indoor environment quality
- # Augmented/virtual reality
- # Digital Twin
- # Digital prototyping
- # Smart living

DIHCUBE Project/geographical coverage

The DIHCUBE Services will be available **throughout the national territory**. The partners were chosen not only for their expertise, but also to guarantee an **adequate geographical distribution** between North, Centre, South and Islands. **The territorial network of ANCE**, made up of **110 offices**, will be the first access point for stakeholders.



DIHCUBE Project/ international collaboration/ EDIHs

//FAIR (Finnish AI Region) **Finland**

//Technopark Kielce DIH **Poland**

//DIGITALbuilt **Portugal**

//EDIH-SWH Süd Westfalen **Germany**

//CONNECT **Belgium**

// EDIH – EBE **Belgium**

// AS DIH **Spain**

// EDICAS **Bulgaria**

