





# Transition Pathway for Construction:

How to green and digitalise the ecosystem

3 May 2023

08:30-09:45 CET

online



#SingleMarket30

## Agenda

- News from the European Cluster Collaboration Platform
   Martina Fumagalli, European Cluster Collaboration Platform
- 2. From Our Own Correspondent

Video: Cluster Eco-Construction

METABUILDING project:

Claudia Hunziger Keller, Head of Innovation Ecosystems, NOBATEK/INEF4 Germain Adell, Deputy General Director of NOBATEK/INEF4

- Transition Pathway for Construction
   Ilektra Papadaki, Team Coordinator, DG Internal Market, Industry, Entrepreneurship and SMEs (GROW), European Commission
- 4. Panel debate

Pablo Saiz, Chief Architecture Officer, WOODEA

Rodica Lupu, Director, Technology Enabled Construction Cluster – TEC

Victor Ferreira, President, Sustainable Habitat Cluster

Zoi Boutopoulou, Coordinator, Intelligent Solutions for Zero & Positive Energy Buildings

5. Funding opportunities

\*\*Martina Fumagalli\*, European Cluster Collaboration Platform\*\*





## Housekeeping rules

#### **Chris Burns, presenter**

- Please use the Q&A function to ask questions, and the chat function to comment or share links
- We invite you to join the debate: Please raise your hand and we will give you
  the floor.
- Please unmute yourself and activate your camera when you take the floor.
- Please note that the session is being recorded.

# NEWS FROM THE EUROPEAN CLUSTER COLLABORATION PLATFORM





### **New ECCP Profile Registration Process**

#### Become a **Pro User!**

#### Overview of the main differences

Standard User Profile*	Pro User Profile*	
Basic Industry Sector Information	Extensive industry info including i.e. Technology Fields and Industrial Alliances	
Standard organizational KPIs	Detailed organizational KPIs including current and anticipated cluster growth	
No Information on Special Thematic Areas	Information on Areas such as internationalisation and digitalisation	
No Data on Partnerships etc.	Partnerships and Networks are disclosed	

<sup>\*</sup>Please note that both profile types can include all information, the distinction is made based on the 50%-mark

#### Check out the manual:

https://clustercollaboration.eu/sites/default/files/news\_attachment/ECCP%20Profile%20Registration%20User%20Manual%20.pdf

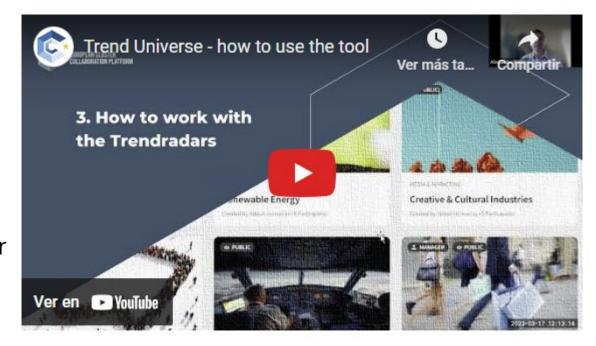




# Trend Universe: A Strategic Foresight Instrument for EU Cluster Organisations



- Get insights into the future to help build strategic competitive advantages
- Better understand future trends and their impact on your cluster organisation
- Explore relevant trends from 14 different industrial ecosystems
- View relevant trend assessments from other clusters and global data
- Only ECCP **Pro Users** can access the ECCP Trend Universe



https://clustercollaboration.eu/trend-universe





### **Second Cluster Booster Academy**

- Apply to participate in this 4-day training:
  - 2-day online event on 6-7 June 2023
  - 2-day in person training session in Torino, Italy, on 21-22 September 2023
- In addition to the virtual and in-person training sessions, **individual coaching sessions** will also be provided to participants.
- Host for in person training is MESAP Innovation Cluster

"The training provides an opportunity to create a better structure for any cluster, regardless of the number of years [it has been operating]."

"Excellent opportunity to understand challenges of other clusters and connect with them."

"The training [...] provides a unique opportunity for networking between European Clusters that no other event currently offers."







### **Public Buyers Community Platform**

- Complements the European Commission's strategy to improve public procurement in the EU by bringing together public authorities and other stakeholders
- Who is the Public Buyers Community Platform for?
  - Individual public procurers looking to boost their purchasing power and market knowledge by joining a community of like-minded public buyers.
  - Persons in **upper management** or who hold political office looking to get information on leveraging the power of their public procurement function.
  - **Suppliers and industries** wishing to know more on EU public procurement practices and how to engage with public authorities.
  - Existing **networks** in need of a common space to guarantee the cohesion of their stakeholders' purchase mode.
  - **Research groups** seeking to gain insight into public procurement with the aim of improving current practices.



https://public-buyers-community.ec.europa.eu/





## FROM OUR OWN CORRESPONDENT

**Cluster Eco-Construction** 





## FROM OUR OWN CORRESPONDENT

**METABUILDING Project** 

Claudia Hunziger Keller, Head of Innovation Ecosystems, NOBATEK/INEF4

Germain Adell, Deputy General Director of NOBATEK/INEF4









Innovation Funding and Support for SMEs

of the Built Environment Sector
European Construction Sector
Innovation Ecosystem with METABUILDING
platform









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Germain Adell & Claudia Hunziker Keller NOBATEK/INEF4 & Metabuilding AISBL

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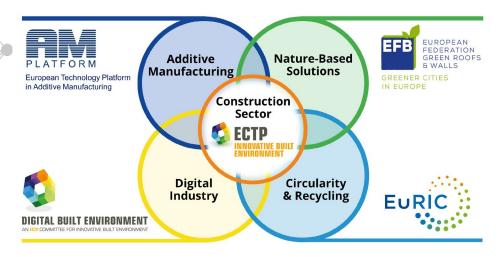
METABUILDING & MBLabs
Two H2020 projects,
One Ecosystem,
One Digital Platform,
One Open Innovation Test Bed

#### METABUILDING + METABUILDING LABS: comprehensive innovation support for SMEs & ecosystem consolidation





Unleashing the Innovation Potential of **EU Construction SMEs** 



H2020-INNOSUP-2018-2020

- 16 partners
- 5 M € total funding
- 3,75 M€ direct support for SMEs (cascade funding)

EU wide network of Testing facilities & Innovation services for new building envelope technologies & products

#### +100 TESTING FACILITIES FOR BUILDING ENVELOPES



H2020-DT-NMBP-05-2020

- 40 partners
- 15 M € total funding















13 countries















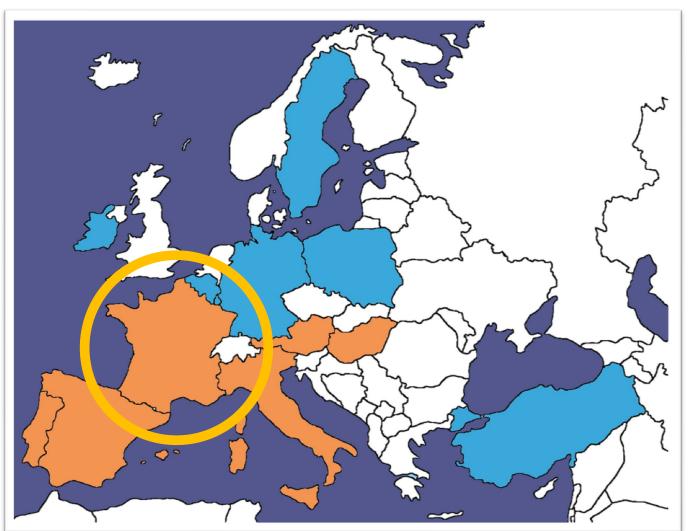
#### METABUILDING + METABUILDING LABS: 13 countries towards a connected ecosystem







6 target countries





7 additional countries

#### The French Construction Sector **Innovation Ecosystem**

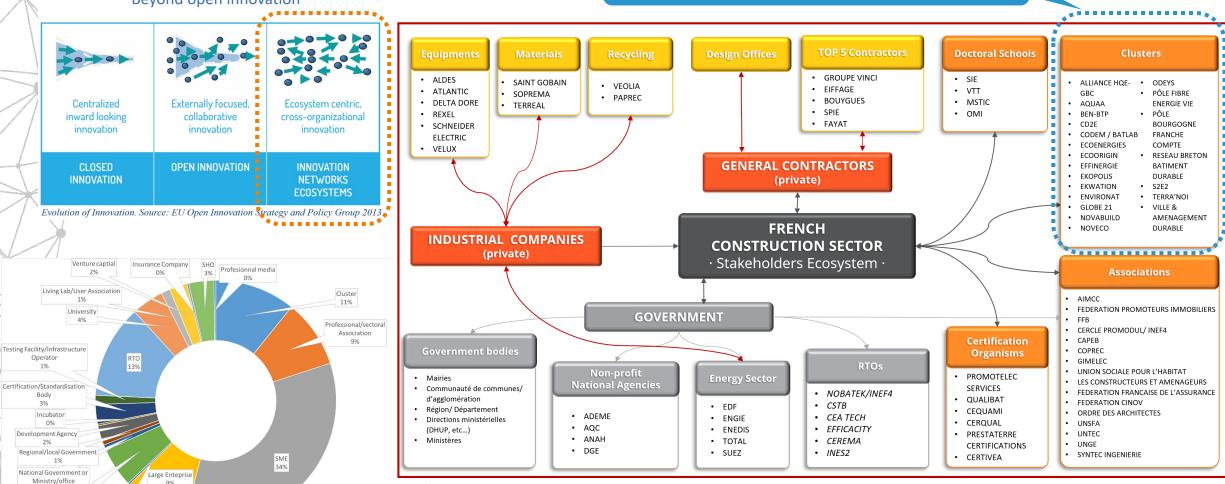




SMEs are in CLUSTERS, here!

#### Beyond open innovation

Digital Innovation Hub



#### The French Construction cluster Ecosystem





























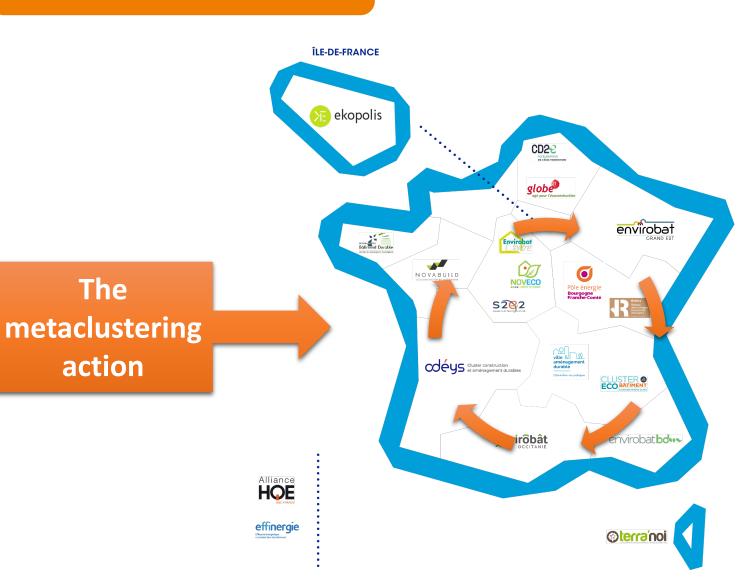
#### The French Construction Sector Innovation Ecosystem

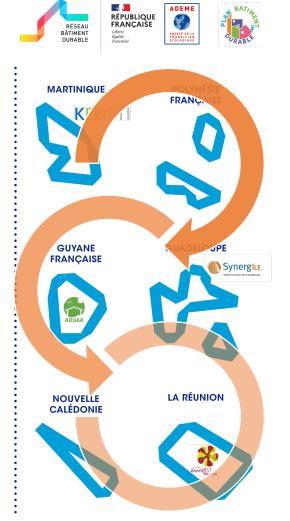
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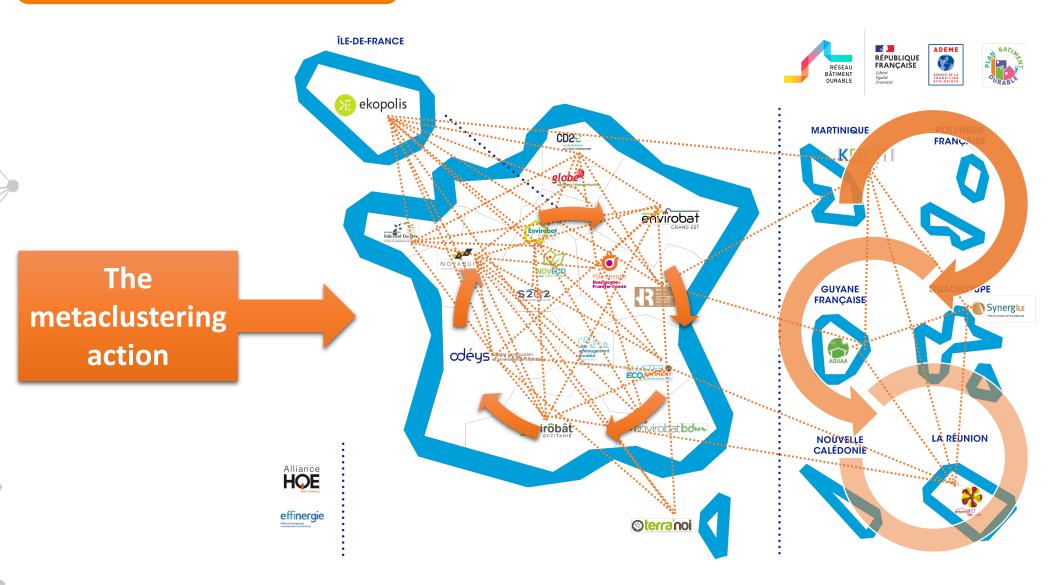




#### The French Construction Sector Innovation Ecosystem



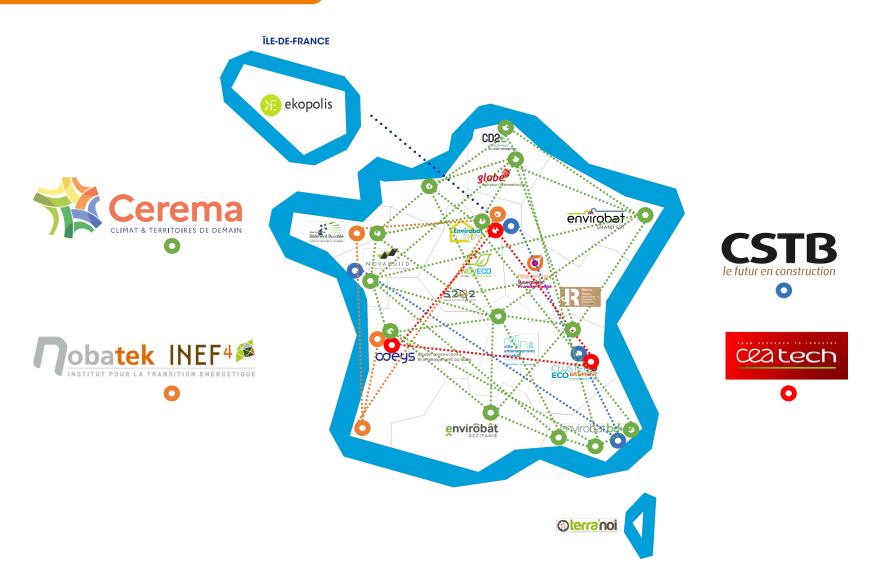




#### Adding the French Construction Sector RTOs (list non exhaustive)



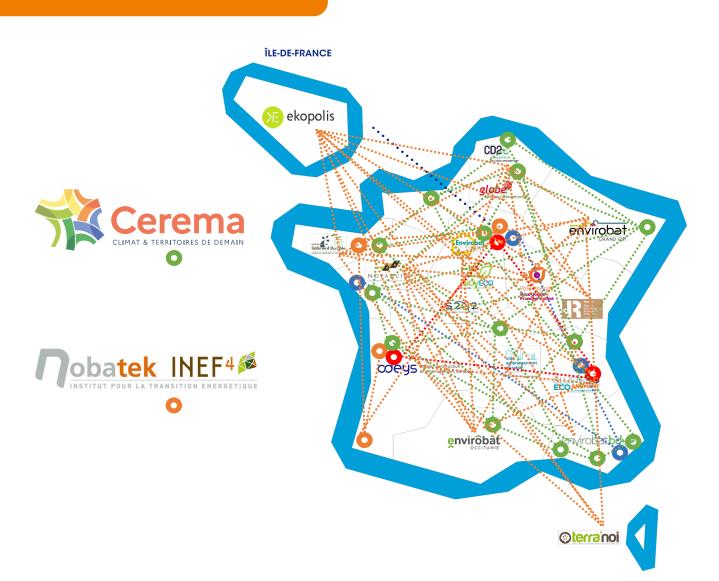




#### Adding the French Construction Sector RTOs (list non exhaustive)







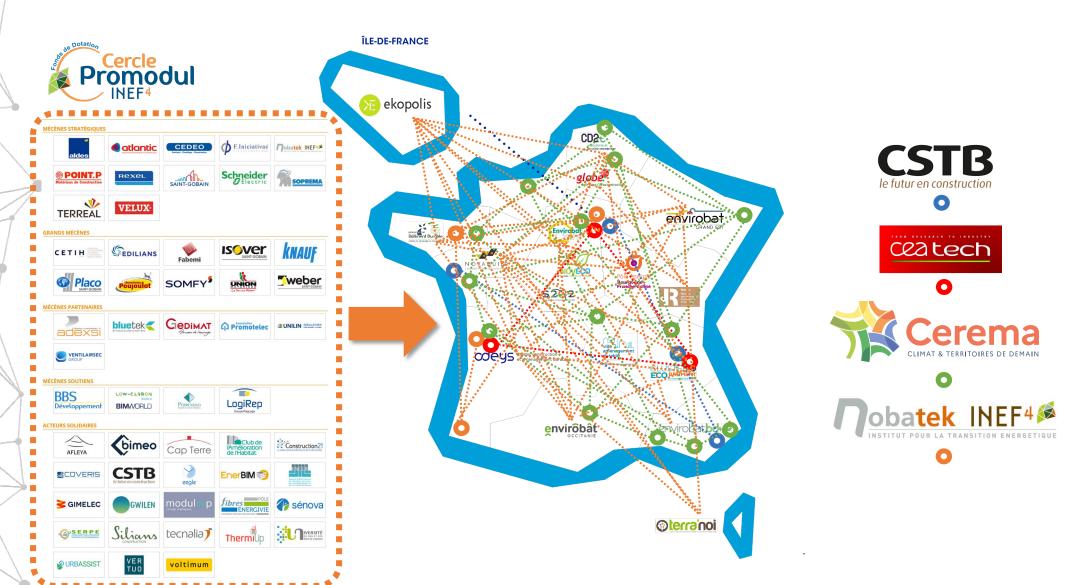




#### French industrial players are organised and available to join



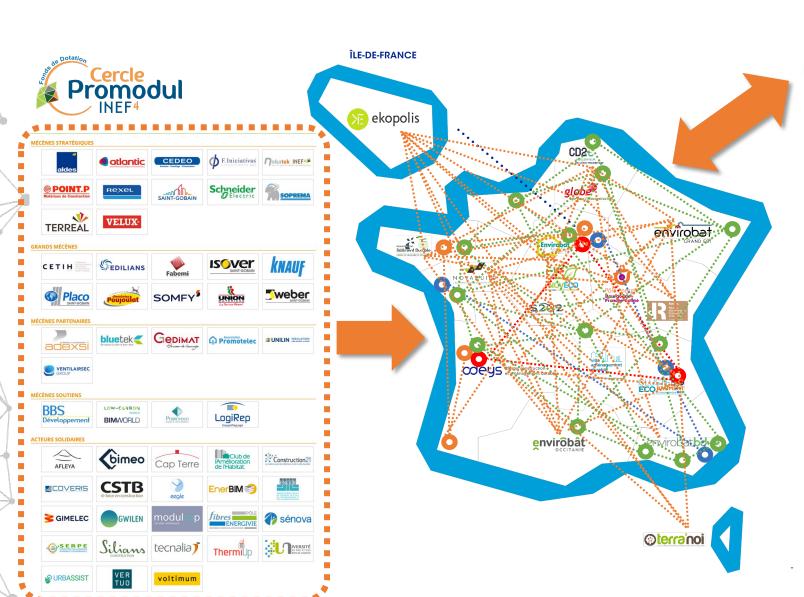




#### The French ecosystem should effectively link to Europe























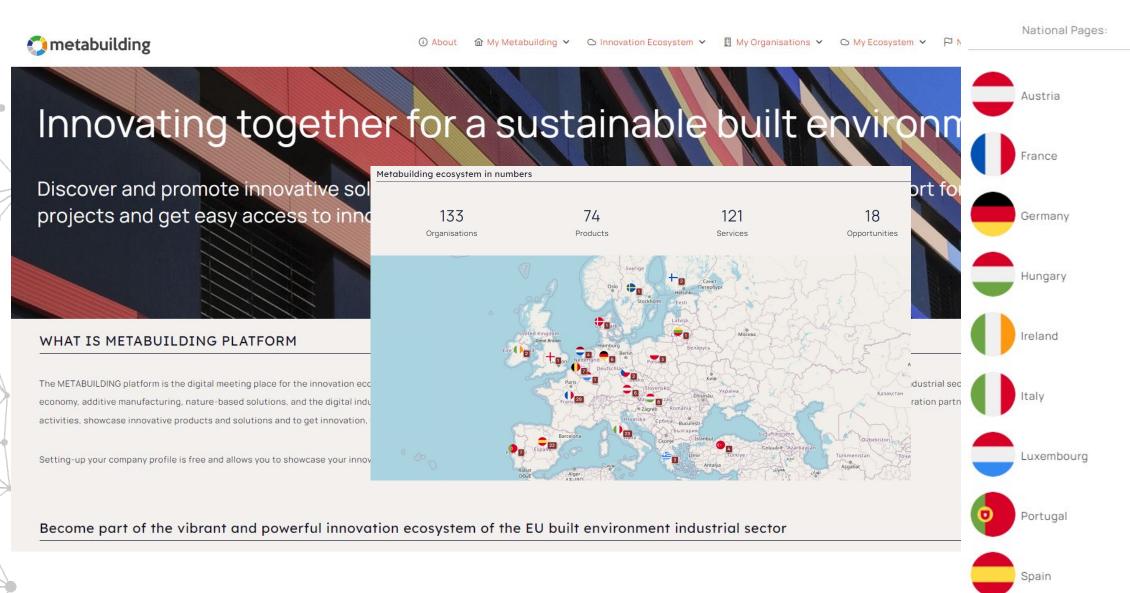
## metabuilding.com

The digital backbone of the EU construction sector ecosystem

#### DIGITAL OPEN INNOVATION PLATFORM



The meeting point of a EU-wide innovation ecosystem



#### THE OFFER



#### Innovation support at different levels and information on latest innovation

#### WHAT WE OFFER

#### **Tools for CLUSTERS**



#### Innovation and Testing Support

Find and promote innovation and testing services:

From the definition of a project until the testing in a real environment.



#### Innovation Coaching

Get tailor-made support from an innovation coach:

From ideation to commercialization.



#### Products and Technologies

Explore and showcase innovative solutions for construction:

Technologies under development and products on the market.



#### Funding and Financing

Find and offer financial support opportunities:

Public and private funding.



#### Collaboration Opportunities

Discover and promote collaboration opportunities:

Partners for innovation projects, business partners, distributors.



#### Clusters & Innovation Ecosystem

Find an innovation cluster in your region/country:

Meet other innovators, learn about funding opportunities and build-up collaborative innovation projects.

#### NEWS See all



Publication - The construction sector as the key ...



Call for Papers and Workshops for the OpenLivingLa...



The European Recycling Industries' Confederation (...



Web Seminar on Funding Opportunities for METABUILD...

# -

#### PREPARATION FOR CROSS-SECTORAL COLLABORATION



The place to collaborate across sectors and innovation actors



### Promote or find products and services



Showcase and transfer of project results (FP7, H2020, Horizon Europe)



① About

○ Innovation Ecosystem ∨

■ My Organisations ∨

○ My Ecosystem ∨

P National Pages



GRÜNSTATTGRAU Forschungs- und Innovations GmbH

Austria

#### Free of charge – but registration mandatory

Copy Link (

BeRTA - green facade

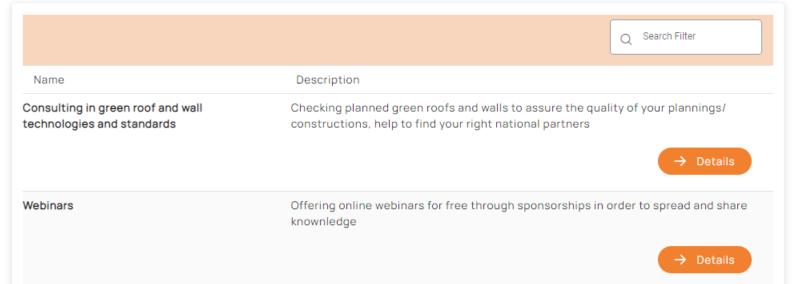


Produkte

**⊟** Dienstleistungen

MÖGLICHKEITEN

Created at Oct 04, 2022, 05:48 PM



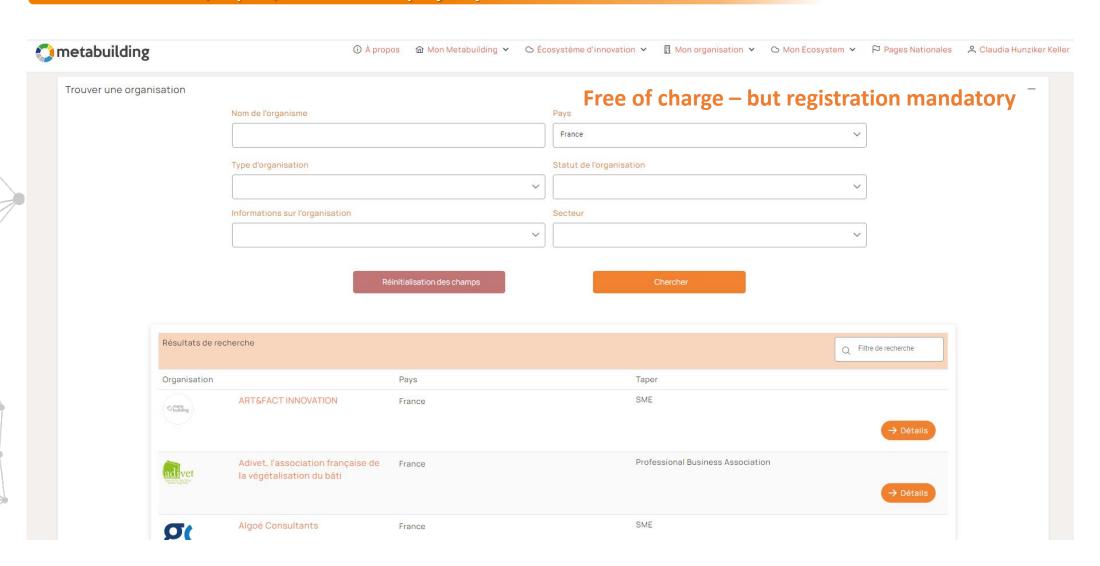
product includes the fibre cement trough, substrate, climbing plants and, if needed, a



#### **COLLABORATION OPPORTUNITIES**



Find a collaborator, expert, distributor or project partner



### Clusterly: a tool to enable meta-clustering



A METABUILDING project result ready for other innovation ecosystems



#### FLAGSHIP CLIENTS OF CLUSTERLY?











CONNECTING PEOPLE, ORGANISATIONS & IDEAS FOR GLOBAL GROWTH





#### THE PLATFORM

Registration

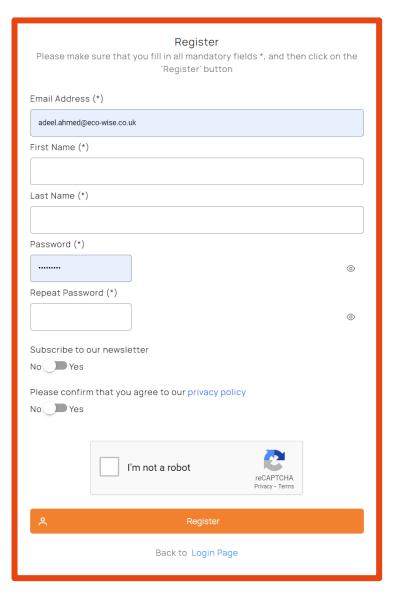


#### Register for free!

Registration is needed to create an **Organisational Profile** 



"Sign-up and become part of the METABUILDING ecosystem!"







Innovation Funding and Support for SMEs

of the Built Environment Sector
Thank you for your kind attention

Open Innovation Test Beds for the
European Construction Sector

g.adell@metabuilding.com +
chunziker@nobatek.inef4.com

### More info @ www.metabuilding.com



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## **Transition Pathway for Construction**

Ilektra Papadaki

Team Leader – Construction ecosystem - Green, digital and resilience, DG GROW

European Commission







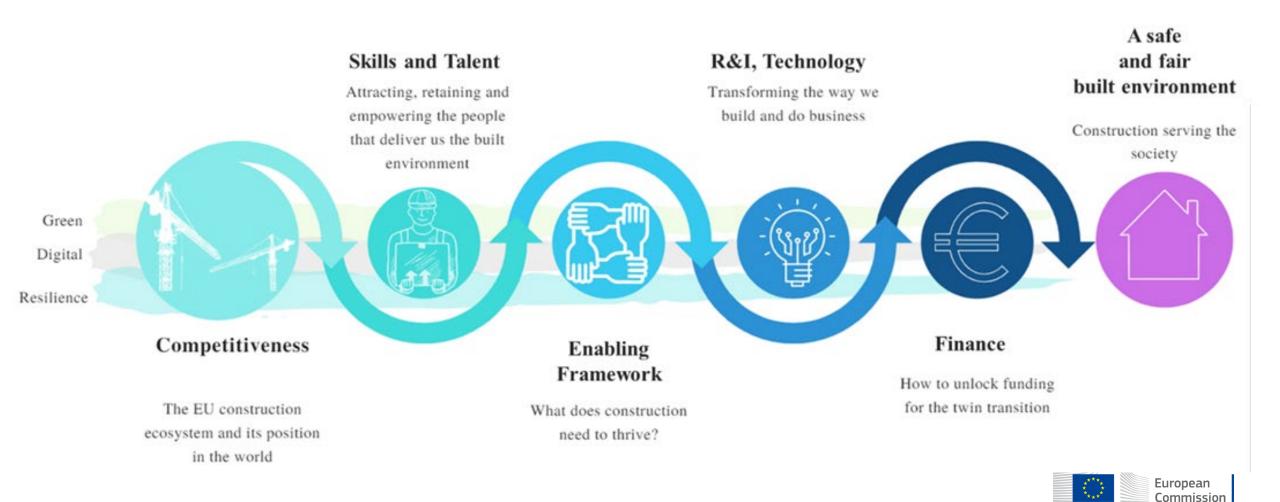
## **EU Clusters talk**

3 May 2023

Ilektra PAPADAKI
Team Leader, DG GROW, Unit H1 Construction



## 6 Building Blocks for the transition



## **Building Block structure**



Building Block X		
Recommended action	Actors	Timeframe
Name of action	EU, MS or industry	Short, medium or long term

- Actions derive from feedback received during consultations
- Recommendations not commitments





## Building Block 1: Competitiveness

- The European construction ecosystem in the world
- Construction start-ups
- Accelerating growth and competitiveness through networks
- Principal challenges
- Strategic dependencies challenging construction resilience





### BB1:Competitiveness main actions

Industry can support competitiveness with:

- -diversifying suppliers, materials, products, therefore increasing resilience to shocks.
- -support the use of local materials and building techniques.
- -invest in technology and automation.

EU/MS Authorities are called to support start-ups and companies facing price spikes in public contracts.

They are called to advocate for the use of EU standards, and elevate the quality of buildings and infrastructures, also in coherence with NEB.





#### Building Block 2: Skills and talent

- A coordinated effort to upskill construction professionals
- Diversity and attraction of talent





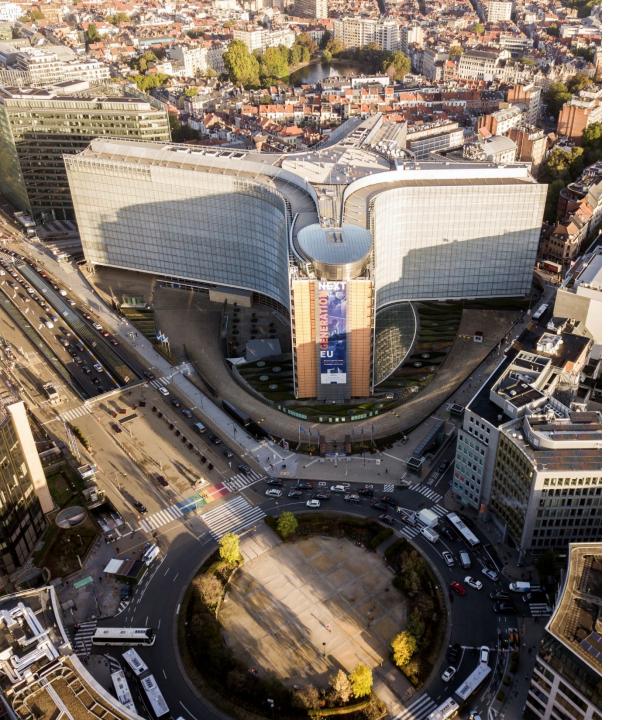
### BB2: Skills and talent main actions

Industry can support re-skilling, upskilling, attraction of talent and diversity through:

- -Join the Pact of Skills/ succeed on the commitments
- -Digitalise/modernise operations and contribute to the attraction of talent in the sector.
- -Commitment to diversity in the workspace and in policy/strategy debates.

Public authorities are called to keep coordinating and supporting efforts, train their own employees, facilitate cross-border professional services and foster PP contracts that include upskilling and promote apprenticeships.





#### Building Block 3: Enabling framework

- Enabling a greener construction ecosystem
- Enabling the digital transition the digital transition as lever to resilience
- Creating a favourable environment for competitiveness and resilience





### BB3: Enabling framework main actions

Industry is called to contribute to an enabling framework for the green and digital transition by:

- -Commit to circularity (deploy solutions on waste sorting, favorise renovation over demolition).
- -Support the transition to zero-emission construction sites
- -Utilise Level(s), report on results.
- -Experiment on digital building logbooks, develop new business models and applications based on EU/national tools.

Authorities are called to contribute through a series of actions that support circularity and modernisation of their processes. They are also called to consider EU level guidelines on PP, mutual recognition, interoperability and participate in working for a with their peers (e.g., public buyers).





#### Building Block 4: Research, Innovation, Technology

- R& I in a fragmented ecosystem
- Research, innovation and technology as enablers of the twin transition





# BB4:Research, Innovation, Technology main actions

Industry is called to act by:

- -Investing in circularity and digitalisation.
- -overall fund R&I.
- -Develop standards

Authorities are invited to support research collaboration building on the work of partnerships such as Built4People, the European Research Area Roadmap and the work of the EIC.

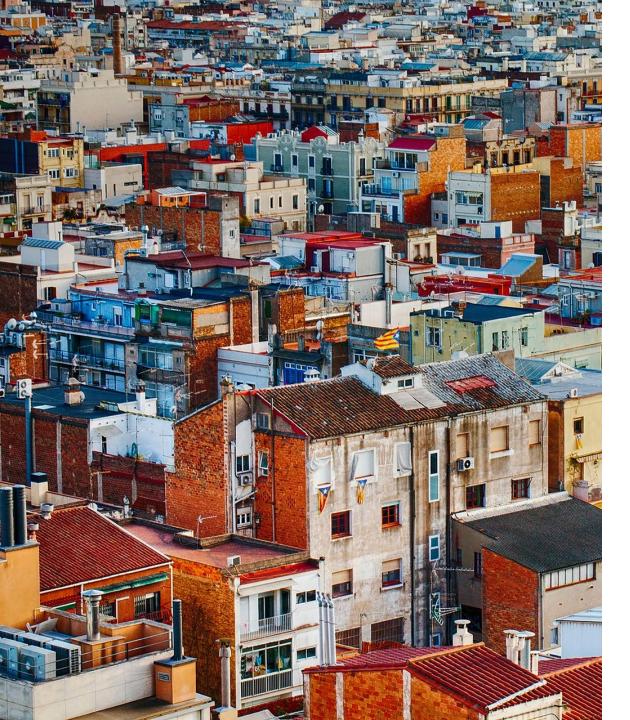




## Building Block 5: Funding

- The private investment environment
- EU funding schemes and national/regional programmes





#### Building Block 6: Towards a fair and safe built environment

- Fair housing
- Safe buildings (fire, asbestos, indoor air quality)



#### Annex I: Action roadmaps

#### Roadmap 3: Safe and affordable housing for all

SHORT TERM	MEDIUM	TERM	LONG	TERM
6.1 Improve fire safety regulation	ns and practices			
6.2 Asbestos: screening and registration				
6.3 Improve indor air quality				
6.4 Data for safer buildings				
6.5 Support affordable housing				

#### Roadmap 5: Towards a greener built environment

SHORT TERM	MEDIUM TERM		LONG	TERM
3.4 Prioritise renovation over dem	olition			
3.10 Sustainability requirements for product	s			
3.11 Extend service life through maintenance	1			
3.12 Reporting of whole life carbo	1			
3.14 Benchmarking environmental performance with Level(s)		el(s)		
3.15 Consistent calculation of whole life carbon			_	
3.1	.6 Equivalent of Level(s) for infrast	ructure		
3.18 Align national asset	ssment schemes with Level(s)			
3.19 Align procurement to EU green approaches				
3.27 Uptake of environmental analysis tools				
5.3 Public information for renovation financi	ng			

 Action roadmaps to visualise the transition







## Annex II: National and industry commitments

- Presents action already planned
- National and industry roadmaps
- Open invitation for more commitments to be added



#### **Thank You!**

<u>Ilektra PAPADAKI</u> <u>ilektra.papadaki@ec.europa.eu</u>



https://single-marketeconomy.ec.europa.eu/sectors/construction/construc tion-transition-pathway\_en









#### Panel debate

Pablo Saiz, Chief Architecture Officer, WOODEA

Rodica Lupu, Director, Technology Enabled Construction Cluster – TEC

Victor Ferreira, President, Sustainable Habitat Cluster

Zoi Boutopoulou, Coordinator, Intelligent Solutions for Zero & Positive Energy Buildings





#### What are your thoughts?





#### **FUNDING OPPORTUNITIES**





## Fast-tracking and promoting built environment construction and renovation innovation with local value chains (Built4People Partnership)

- Project results are expected to, among other outcomes, contribute to
  - Increased awareness and improved access at a local or regional level to research outcomes for sustainable built environment construction and renovation
  - Increased engagement and participation of the whole value chain in local and regional construction innovation clusters
  - Strengthened, long-lasting and multi-disciplinary networking and collaboration on locally rooted, bottom-up innovative holistic solutions for a sustainable built environment
  - Creation of new business opportunities with reduced risk for investment in innovative built environment construction and renovation
- Deadline: 5 September 2023
- HORIZON-CSA HORIZON Coordination and Support Actions; TOPIC ID: HORIZON-CL5-2023-D4-02-04
- Published on <u>Funding & Tenders Portal</u>



### Supporting the creation of an accessible and inclusive built environment (Built4People Partnership)

- · Project results are expected to, among other outcomes, contribute to
  - Increased awareness and improved access at a local or regional level to research outcomes for sustainable built environment construction and renovation
  - Increased engagement and participation of the whole value chain in local and regional construction innovation clusters
  - Strengthened, long-lasting and multi-disciplinary networking and collaboration on locally rooted, bottom-up innovative holistic solutions for a sustainable built environment
  - Creation of new business opportunities with reduced risk for investment in innovative built environment construction and renovation
- Deadline: 5 September 2023
- HORIZON-IA HORIZON Innovation Actions; TOPIC ID: HORIZON-CL5-2023-D4-02-05
- Published on <u>Funding & Tenders Portal</u>





### Demonstrate built-environment decarbonisation pathways through bottom-up technological, social and policy innovation for adaptive integrated sustainable renovation solutions (Built4People Partnership)

- Project results are expected to, among other outcomes, contribute to
  - Increased number of options for built-environment decarbonisation pathways towards zero-emission buildings considering the whole value chain at local or regional level
  - Increased number of innovative solutions and packages for sustainable construction and renovation
  - Increased awareness and improved access at a local or regional level to information on construction products for reuse and circular businesses
  - Creation of new business opportunities with reduced risk for investment in the circular economy
- Deadline: 5 September 2023
- HORIZON-IA HORIZON Innovation Actions; TOPIC ID: HORIZON-CL5-2023-D4-02-03
- Published on <u>Funding & Tenders Portal</u>





#### **Opportunities for SMEs: Calls from Euroclusters**



- <u>BioMan4B2:</u> Business transformation, support for travel to explore markets in other countries, and resilience plans for SMEs in **life** sciences and medical technologies sector; deadline 2 July 2023
- <u>CircInWater:</u> Financial support for SMEs to develop new products, services, or methods, addressing the **water** challenges in **agrifood and energy-intensive industries**; deadline 31 May 2023
- <u>DREAM</u>: Financial support for integration and use of **digital technologies into manufacturing environments**; deadline 25 May 2023
- <u>EPICENTRE</u>: Programme of accompaniment, acceleration, validation, and transfer to the market innovative solutions between SMEs from **ICT, fintech, health and agri-food** and mid-cap and big companies; deadline 29 May 2023
- <u>EuroBoosTEX:</u> Call for **innovation** services for SMEs from the **textile** ecosystem; deadline 7 June 2023
- MedBAN: Innovation, training and twin transition in the **Blue Economy**; deadline 31 May 2023
- <u>METASTARS</u>: Development of more digital or greener **innovation products** or services or high-risk innovation products or services in the **Aerospace and Defence** value chain; deadline 6 June 2023
- <u>RE-CENTRE:</u> Financial support for SMEs from **furniture and living sector, IT sector, and green/circular economy** sector in the development of **innovation** projects and new business models; deadline 27 June 2023
- <u>SILEO Eurocluster:</u> Consultancy con business transformation, advanced technologies, and digitalisation for SMEs from the **lighting and furniture** sectors; deadline 20 June 2023
- <u>Silicon Eurocluster:</u> Call for **demonstration** projects of **microelectronics** systems; deadline 31 May 2023
- <u>SUAVE</u>: Financial support for SMEs from **European Urban Agriculture** for diversification of products/service, green transition, skills, internationalisation; deadline 30 May 2023
- <u>xBUILD-EU</u>: Financial support for new-to-firm products/services, green and digital transition, and internationalisation; deadline
   7 June 2023
- All calls here: <a href="https://clustercollaboration.eu/open-calls">https://clustercollaboration.eu/open-calls</a>



### Continue the dialogue...



https://www.linkedin.com/groups/9274710/





### Register for the next Talks

17 May 2023 Transition Pathway on Textiles

31 May 2023 Patent Package

14 June 2023 Skills for Cluster Managers





### Register on the European Cluster Collaboration Platform!

https://clustercollaboration.eu/

Strengthening the European economy through collaboration



The European online hub for industry clusters

Strengthening the European economy through collaboration





Find partners per country, region, sector or industrial ecosystem





