

THEMATIC SESSION

Construction Innovation Cluster Open Day & Brokerage Event

Day | Wed. 08 Oct. 10.30 - 12.30 PM CEST









8 October 2025 | 10:30 - 12:30 h.

Monte Rosa 91 Conference Centre, Milan

Construction Innovation Cluster Open Day & Brokerage Event

Organised by:





Contributors:













Sponsors:











AGENDA

Part I: Presentation of Clusters and Invitation to join / get Involved

Part II: Mini-Brokerage Event: NEB 2025-01 Calls

Part III: Networking Lunch







Part I

Construction Innovation Clusters: Accelerators for development, advocacy and competitiveness					
Moderator - Thomas Messervey, R2M Solution					
Speaker	Topic				
Germain Adell MD Metabuilding ABSL	The state of the art of Innovation Clustering in Europe and Metabuilding as a ecosystem of ecosystems enabler.				
Fabrizio Capaccioli President, GBC Italia	GBC Italia 2025, new membership opportunities and how GBC Italia supports open innovation opportunities.				
Antoine Dugué R&D Director, Nobatek	The O3BET ecosystem – standardized new testing facilities across Europe and tips for attaining funding to build one.				
Silvia Rossi Manger, Cluster-ER BUILD					
Alice Bellazzi ITC-CNR/STRESS	ITC-CNR: How research support innovation in building sector.				
Luca Lucchese GM Spreentech Ventures	How 25 companies clustered, invested and created a Polo Edilizia 4.0 Open Innovation Accelerator.				
Thomas Miorin CEO, Edera	Clustering in the value chain for deep renovation at scale and renovation outlook 2025.				





From the moderator: As we brief everything we do (efficiently), let's not forget

What value do you bring to your cluster members / how?
What do cluster members expect / what triggers them to join?
How can our audience get engaged with your cluster?





METABUILDING Services to Innovation Clusters, the B4PIC network and Invitation to Join

Germain Adell

Architect and General Manager, Clust-ER BUILD







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

Construction Innovation Clusters Open Day & Brokerage Event Sustainable Places 2025 - Milano

Germain ADELL – Metabuilding ASBL General Director

08/10/2025



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The STAR*track project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101147509.

Our Open Innovation Test Bed ecosystem



































RISE Borás **SWEDEN**

BAM Berlin **GERMANY**





Warsaw POLAND



Szentendre HUNGARY



BUILDWISE Limette BELGIUM





LIST / NEOBUILD Bettermbourg LUXEMBOURG



U. of GALWAY Galway **IRELAND**



NOBATEK / INEF4 Anglet FRANCE



IDONIAL Gijón SPAIN



CARTIF Boecillo **SPAIN**



AIT Vienna **AUSTRIA**



TEKNIKER Eibar **SPAIN**



UNIRC Reggio Calabria ITALY



STRESS Benevento ITALY





metabuilding

labs





Metabuilding Labs 5 highlights in Automn 2025





2. Our Digital Open Innovation Platform *metabuilding.com* now handles a <u>pilot</u> <u>buildings module</u> and <u>Digital Product Passports</u>, <u>Living Labs</u> coming soon!

3. Our management entity *Metabuilding ASBL* in Brussels has <u>a new Board of Administrators</u> with 12 members and is already coordinating proposals

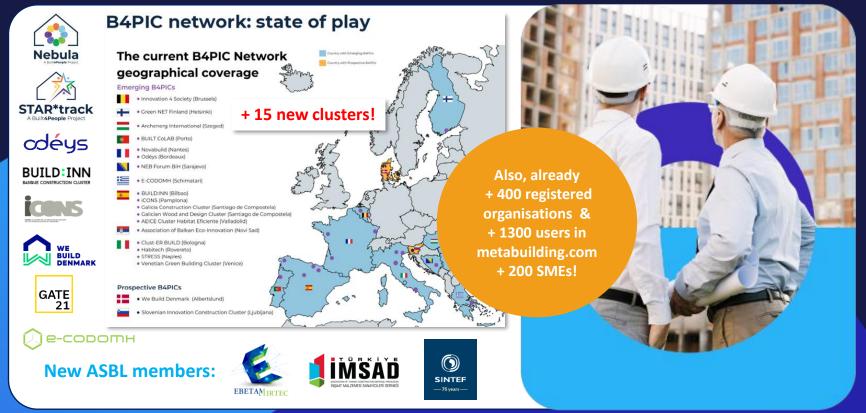
4. Our new Affiliate Membership tier will launch soon, every stakeholder in the value chain will be able to join the association!

5. Our 7 O3BET innovative testbenches are being built, some are already finished

Our extended ecosystem







Why are SMEs & clusters so important?





- 1. SMEs are important, they represent 99,9 % of the EU construction sector
- 2. 95% of those SMEs are micro-companies of less than 10 people
- 3. SMEs account for around 80% of the sector economic output

Any policy or action reaching out to SMEs should proactively find them where they are: in <u>regional clusters</u> across the EU

The **Built4People Partnership** and the **European Commission** have integrated these facts into their programming and funding:

- 3 Open Innovation Test Beds projects funded (45M€ total) to support easing the access of SMEs to professional testing & certification services for building envelopes
- 2 CSAs funded to support the emergence and growth of the B4PICs: Nebula & STAR*Track
- + 35 clusters across 17 countries are in the process of becoming B4PICs

The B4PIC Charter contents





1. Whole Built Environment ecosystem:

 Clusters must involve various stakeholders across the entire built environment value chain, from materials and construction to building use and renovation.

2. Multi-objectives:

 Clusters need to address diverse goals, including scientific (holistic innovation), economic (decarbonisation), and societal (behavioural change) objectives.

3. Cross-sectoral:

 Collaboration extends beyond traditional sectors to include a wide range of disciplines, fostering interdisciplinary approaches to innovation.

4. Locally anchored with national and European outreach:

 Clusters have a local foundation and focus but also connect to national and European networks and policies to broaden their impact.

5. Cross-border:

 Collaboration and exchange of good practices occur across different countries, facilitating the adoption of innovative solutions in diverse contexts.

6. Access to testbeds and demonstration spaces:

 Clusters must have the ability to test and showcase new solutions and approaches, enabling demonstration of their effectiveness and feasibility.



Our digital Open innovation platform: metabuilding.com



The platform brings free ecosystem services



The platform serves as a virtual selling point for Metabuilding Labs services















Landing page: metabuilding.com



€ 176

Opportunities



First operational O3BET Infrastructure, owned by CARTIF Technology Center, Valladolid, Spain.

雷 25

Clusters

The Metabuilding platform is the digital meeting place for the innovation ecosystem of the European built environment sector. It brings together stakeholders from the construction sector and emerging industrial sectors such as recycling & circular economy, additive manufacturing, nature-based solutions, and the digital construction sector to stay updated on latest innovations, find collaboration partners for development or business activities, showcase innovative products and solutions and to get innovation, testing and certification support for their R&D projects.

221

Services

WHAT THE ECOSYSTEM OFFERS

355

Organisations





Innovation and **Testing Support** Find and promote

innovation and testing

From the definition of a



Innovation

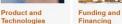
Coaching Get tailor-made support from an innovation

From ideation



Product and

Explore and showcase innovative solutions for construction:



support opportunities: Public and private Technologies under fundina.



Find and offer financial

Collaboration

Opportunities Discover and promote collaboration

opportunities: Partners for innovation



€ 144

Innovations

Clusters & Innovation System

Find an innovation cluster in your region/

Meet other innovators.

Metabuilding Association in Brussels





access to all our services is now a permanent and proactive organisation in Europe!

→ Our active members to date







































→ A new partner in EU funded projects







Open also to external new memberships

Metabuilding Association in Brussels





→ Our new Board of Administrators

		Organisation	Representative	Country
	1	NOBATEK	Julien SZABLA	France
	2	STRESS Scarl	Carmine PASCALE	Italy
	3	FUNDACIÓN CARTIF	Sergio SANZ HERNANDO	Spain
	4	University of Galway	Magdalena HAJDUKIEWICZ	Ireland
N.	5	LIST	Sylvain KUBICKI	Luxembourg
	6	Laboratorio de Control de Calidad de la Edificación	Juan Maria HIDALGO	Spain
	7	R2M Solution	Thomas MESSERVEY	Italy
	8	EcoWise	Emre YONTEM	UK
	9	BE Commons	Alejandro ADELL	France
	10	Basaksehir Living Lab	Omer ONUR	Türkiye
	11	PTEC	Carlos MARTINEZ BERTRAND	Spain
	12	FEDCO	Luigi PERISSICH	Italy

Our New Affiliate Membership tier coming soon!

Your Gateway to Europe's Premier Built Environment Ecosystem

Is This Membership For You?

This tier is for forward-thinking organisations of all sizes within the European construction value chain, including:

- Ambitious SMEs & Contractors
- Innovative Architectural & Engineering Firms
- Cutting-edge Materials
 Suppliers
- Technology Startups poised for growth

Your Benefits: A Catalyst for Growth

- Amplify Your Visibility: Gain credibility with the "Metabuilding Affiliate Member" logo and a listing in our public Member Directory.
- Gain Exclusive Intelligence: Access a members-only hub with curated industry reports, market analysis, and strategic briefings.
- Engage with Leaders: Receive significant discounts on all Metabuilding conferences, workshops, and webinars to network with key decision-makers.
- Unlock Opportunities: Leverage our matchmaking platform to find project partners and be discovered by major industry players.
- Accelerate Your R&D: Get streamlined access to Metabuilding Labs services—including innovation coaching, testing, and certification—plus support for securing EU funding and joining R&D proposals.



A Simple Path to Partnership

An annual investment provides year-round access to all affiliate benefits.

- Affiliate SME: €250 / year (For SMEs and SME-sized Associations)
- Affiliate Corporate: €1,000 / year (For Medium and Large Companies)

This is a non-voting membership, allowing you to focus 100% on leveraging the ecosystem for your business growth.

Be the First in Line.

The official launch of the Metabuilding Affiliate Membership is just few weeks away.

By registering your interest today, you will be placed on our priority list. You will be the very first to receive the official invitation to join, securing your place in the ecosystem before the public announcement.

Don't miss this ground-floor opportunity to connect your business to the future of construction



Join the Metabuilding Association as Affiliate Member



Register in our innovation platform for free

Contact us: contact@metabuilding.com

Visit us at metabuilding.com







Connect. Innovate. Build.



Metabuilding Labs project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 953193.



As a leader shaping the future of the built environment, you understand that collaboration is the key to progress.

Metabuilding. Europe's premier innovation ecosystem for the construction sector, is excited to offer you, the insiders and innovators at Sustainable Places 2025, an exclusive preview of our next major evolution: the Metabuilding Affiliate Membership tior.

This is a new tier designed for the dynamic companies that drive our industry forward. At present, our association is made exclusively of testing facility operators and governance organisations. However, requests from industry have led us to understand that companies and associations went access to the brand and body of knowledge being constructed every day – so we are adaptive.

The official launch is just weeks away, but we are giving you the first opportunity to be part of it.



Your Exclusive Advantage:

A Glimpse of What Awaits

Becoming a Metabuilding Affiliate Member places your organization at the heart of European construction innovation. This new, accessible tier is designed to deliver tangible value and a direct catalyst for growth.

As a future member, you will be able to:

- Devate Your Profile: Gain instant credibility with the official Metabuilding affiliation and increase your visibility through our exclusive European member directory.
- Access Insider Intelligence: Tap into a members-only hub of market analysis, strategic reports, and curated insights that will keep you ahead of the curve.
- Connect with the Community: Enjoy privileged access and discounts for our high-level conferences, workshops, and networking events, putting you in the room with key decision-makers.
- Forge Strategic Partnerships: Leverage our powerful digital platform, metabuilding.com, to find project collaborators, discover new clients, and be found by major industry players seeking your expertise.
- Supercharge Your Innovation: Get streamlined access to the Metabuilding Labs Technical Services Network, Benefit from innovation coaching, world-class testing and certification services, and receive expert support to secure EU funding and join collaborative RoB proposals.

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Thank you for your kind attention

Contact: g.adell@metabuilding.com





Join the Metabuilding Association as Affiliate Member



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GBC ITALIA 2025, NEW MEMBERSHIP OPPORTUNITIES AND HOW GBC ITALIA SUPPORTS OPEN INNOVATION OPPORTUNITIES.

Fabrizio Capaccioli

President, Green Building Council Italia



Green Building Council Italia



GBC Italia is a non-profit association

Mission:

Leading the entire construction supply chain in the sustainable transformation of the built environment

for a healthier, safer, more comfortable and efficient living space.

Vision:

To allow everyone to live environment that respects the needs of man and the environment





Un ambiente costruito sostenibile per l'Italia del futuro: le proposte di GBC Italia

Marzo 2020

Il passaggio a un'economia circolare e a zero emissioni è impegnativo ma lizzabile. Green Building Council Italia è pronta a collaborare con i divers livelli di Governo Nazionale. Regionale e Locale affinché il settore delle costruzioni possa mettere in campo tutto il suo potenziale.

Il seguente elenco dei temi prioritari e degli strumenti necessari rappresenta una prima serie di proposte, che dovrebbero trovare applicazione sulla base dei seguenti principi e i criteri:

- un forte partenariato tra le istituzioni italiane e la filiera del mercato, al quale GRC Italia si candida quale interlocutore di riferimento, è requisito essenziale per
- quidare la trasformazione del settore con politiche e strumenti efficaciuna gerarchizzazione degli obiettivi e delle politiche, basata su valutazioni tecniche multicriterio, attraverso il coinvolgimento attivo delle parti che hanno lavorato o stanno lavorando su questi temi;
- · una estesa campagna di informazione e formazione per creare una nuova

cultura che promuova maggiore efficienza, minori emissioni, adattamento al cambiamento e alle trasformazioni, migliorando utilizzazione e riutilizzazione degli edifici e la gestione circolare dei materiali e dei componenti.

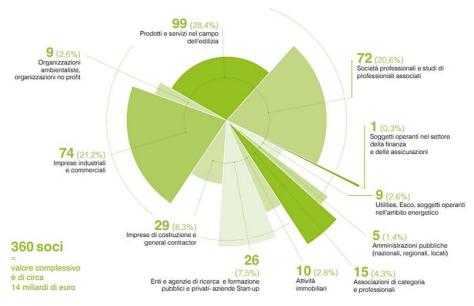
Green Building Council Italia



GBC Italia represents the entire construction supply chain:

- > 400 Members
- > 250 Participating professionals





The Objectives of Green Building Council Italia



Objectives

- To foster and accelerate the spread of a sustainable building culture, driving the transformation of the market,
- To raise awareness among the public and institutions of the impact that the design and construction methods of buildings have on the quality of life of citizens,
- Provide clear benchmarks to industry players,
- Encourage discussion between operators in the sector by creating a sustainable building community.

Areas of action



Certification



Formation



Innovation



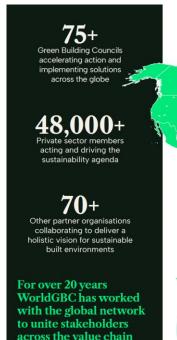
Advocacy

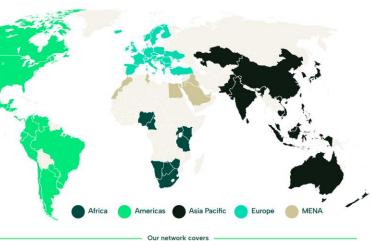


Communication

World Green Building Council







GBC Italia is a permanent member of the World Green Building Council, the largest organization in the world to sustainability promote construction sector, with an international community of 70+ national GBCs, of which 25 in Europe

> Sustainable buildings FOR EVERYONE, EVERYWHERE

> > #BEBOLDONBUILDINGS

and deliver meaningful systemic change at scale.





Our view of the future

As technology advances, markets develop, and climate change challenges the status quo, the latest thinking on sustainable buildings is sure to evolve and adapt to regional and local needs.

Acknowledging the complexity and nuance of such a transformation, our strategy puts forward our view of future sustainable built environments.

The deep green transformation will always need to be holistic and put people at its centre.



Resources and circularity

Upgraded existing buildings or new buildings that optimise resource use and employ strategies for nature restoration.



Climate action

Buildings that are highly energy-efficient, powered by renewable energy, and expected to fully decarbonise by 2050 by addressing whole life cycle carbon emissions.



Sustainable finance and ESG

Buildings that are future-proofed and managed by entities disclosing and addressing financial risks from climate change, investing in appropriate, impactful actions, and safeguarding value and economic stability.

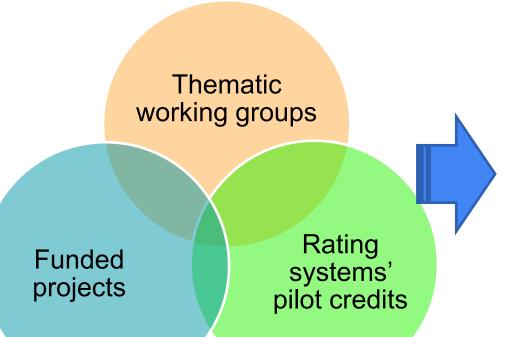
Health, equity and resilience

Buildings that focus on occupant safety, indoor environmental quality and health, as well as mitigating the effects of climate change.



Open Innovation





- Advocacy actions
- Piloting innovation
- Supporting market uptake



Catalyzing funding from private and public sector to implement Innovation at national level



#BUILDING LIFE II



- Implementing roadmaps for net zero whole life carbon. Participating GBCs: Croatia, Czech Republic, Finland, France, Germany, Hungary, Ireland, Italy, Netherlands, Poland, Spain, UK.
- Capacity Building and Pre-roadmap Analysis: Bulgaria Greece, Serbia, Slovenia.

INDICATE LIFE



 Delivering WLC benchmark data at national level. Participating GBCs: Croatia, Italy, Luxembourg, Austria. Follower country: Hungary

TOPCLEVER (led by GBC Italia)

 Developing training on WLC for professionals and trades. Participating GBCs: Italy, Spain, Poland, Slovenia, Croatia, Hungary.

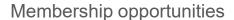
Laudes — Foundation



From private philantropies support



To EU public funding







Transposing European relevant topics into the national context

Bringing global and european knowledge and expertise at national level

Taking part to international movements through the GBC network initiatives



Direct membership opportunities on innovative projects



Involving the WorldGBC EU regional network in consortia for projects proposals

Taking part to project proposal together with GBC Italia

Receiving support for national networking activities and forming consortia at the national level

Taking part to international initiatives (such as #Buildinglife, Net zero Cities) through the GBC Italia activity







The O3BET Ecosystem

A new European Testing Facility – and an invitation to use and/or build one.

Antoine Dugué

Director R&D, Nobatek







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

The O3BET ecosystem standardized new testing facilities

Antoine Dugué – R&D resp. NOBATEK

10/08/2025

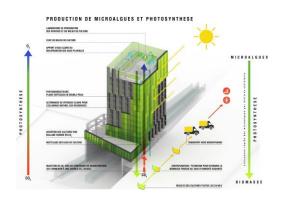




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European Construction sector Innovation vs regulation



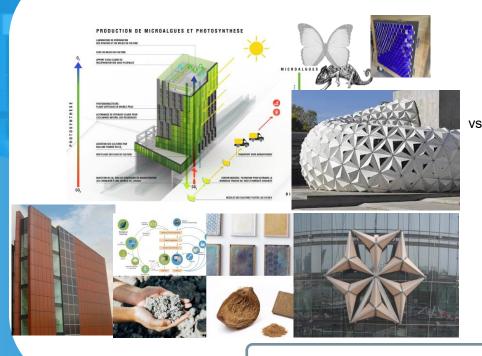




VS

European Construction sector Innovation vs regulation





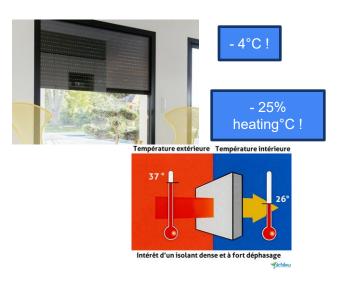


Race for innovation or for regulation?

European Construction sector Innovation vs regulation



Unproven claims





Ecodesign for Sustainable Products Regulation



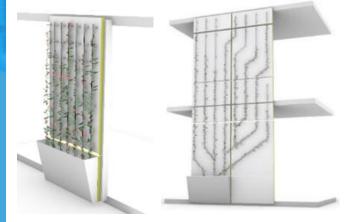


Real case example – manufactures needs



A green wall for renovation





Initial discussion



- System for renovation
- It impacts comfort, cooling loads
- Most often not modeled
- No standards to describe

Market objectives

- What is the impact on cooling loads or summer comfort for residential & office buildings?
- On what walls should it be installed? All orientations?
- Can it be modeled in business as usual modeling & simulation platforms?

Our solution



Open Source Open Data Open Access

Building Envelope Testbench



O3BET Benefits

- A 1:1 scale
- Standardised and fully replicable
- Cost-effective
- Timber based and industrialised
- Mountable/dismountable low environmental impact kit
- Digital twin enabled
- Including all necessary sensors/hardware for virtual testing

Our solution



Service

Initial

analysis





experimental protocol

Energy model

Targeted Building stock

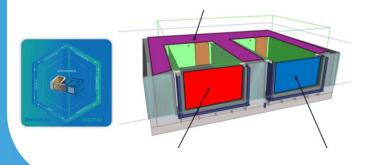
Installation on a O3BET 6-12 weeks

Exploitati on

- > 4 months
- > 15-25 k€

O3BET feedbacks

- Installation/implementation
- Airtightness
- Acoustic
- (Almost) standardised test to assess thermal characteristics
- Evaluate impact of piloting

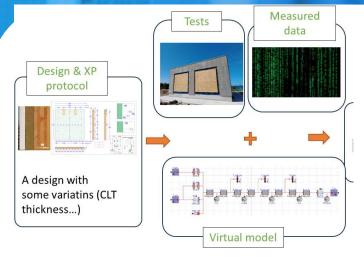




Validity?

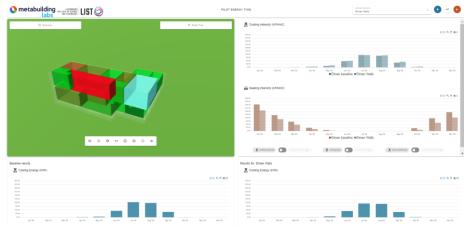
Our solution – a semi virtual test bench





From the test an energy model

And then with simulation, analysis of all potential cases



First O3BET in CARTIF, Valladolid, Spain











First O3BET in CARTIF, Valladolid, Spain











Our O3BET innovative testbench network





→ How many are being built and where

A starting network of **8 digitally connected O3BETs**:

CARTIF O3BET: Boecillo, SPAIN [BSk]*

STRESS O3BET: Térmoli, ITALY [Cfa]*

ITB O3BET: Katowice, POLAND [Dfb]*

NOBATEK O3BET: Bordeaux, FRANCE [Cfb]*

RISE O3BET: Borås, SWEDEN [Dfb]*

UoG O3BET: Galway, **IRELAND** [Cfb]*

EMI O3BET: Budapest, HUNGARY [Dfb]*

UPV/EHU PASSYS CELLS: Vitoria-Gasteiz, **SPAIN** [Cfb]*



Our technical services

- **Testing facilities (>100)**
 - Standardised laboratory testing
 - Development testing
 - Regulation compliance reporting
- **Strategy & Management**
 - Coaching services
 - DPP based management







BAM Berlin **GERMANY**



Warsaw POLAND



Szentendre HUNGARY



BUILDWISE Limette **BELGIUM**



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Vienna **AUSTRIA**



TEKNIKER Eibar **SPAIN**



UNIRC Reggio Calabria ITALY



STRESS Benevento ITALY



UPV / EHU Vitoria SPAIN







metabuilding

labs







Ecosystem



O3BET



Cost: 250 k€

Network about to be activated (end of the project in July 2026)

Ecosystem benefits

- Access to local companies (often SMEs) → First contact is key, importance of local communication activities.
- Align with commercial practices: documentation, templates, costs...
- High quality standards: calibration, reports...
- Benefit from shared development: DPP based management, advanced energy mode, design & installation of O3BET



Thank you for your kind attention





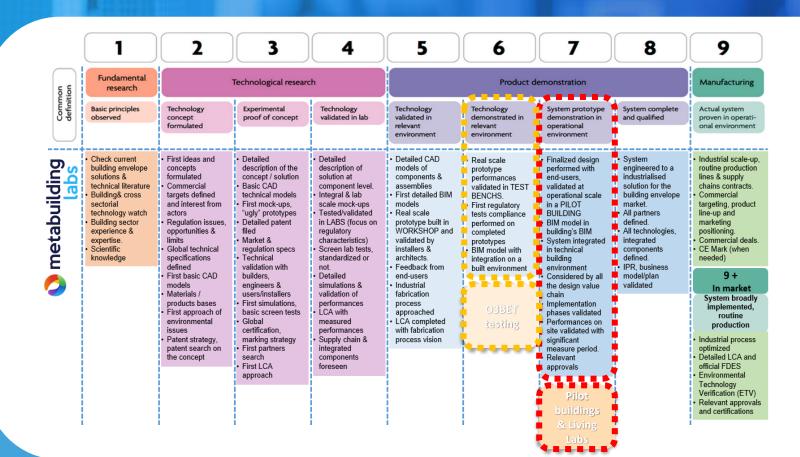
The Project www.metabuilding-labs.eu



The Platform www.metabuilding.com



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Clust-ER BUILD Emilia-Romagna region Cluster and B4P Innovation Cluster

Silvia Rossi

Managing Director, CLUSTER-ER BUILD





Quadruple Helix

CLUST-ER BUILD EDILIZIA E COSTRUZIONI

Community of public and private subjects (research centers, companies, training institutions)

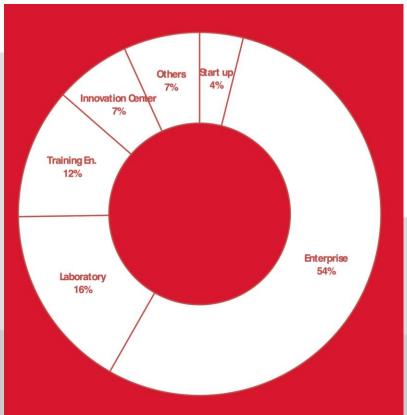
Innovative start up with interdisciplinary teams: engineering, architects, computer scientists

Access to innovations, resources, subsidies and tools necessary to carry out projects.



Value Proposition





To be the leading cluster in the construction field: from design to the built asset, guiding our members towards a high level of innovation for a new asset in the construction sector.

Clust-ER BUILD aims:

BE THE MAIN REFERENCE POINT FOR THE CONSTRUCTION SECTOR

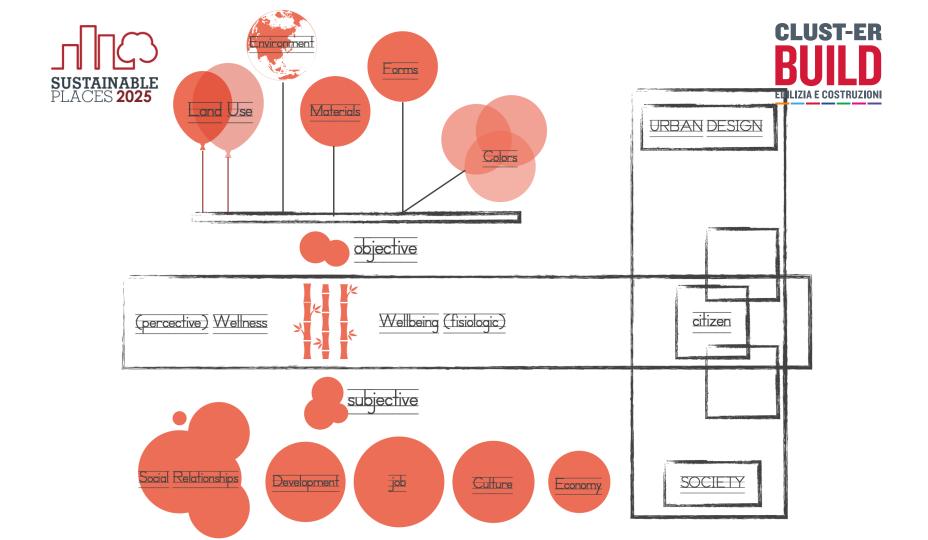
Provide support from the project's inception to the realization of the built asset.

PROMOTE INNOVATION

Help cluster members achieve a high level of innovation in the construction field.

SUPPORT THE DEVELOPMENT OF NEW ASSETS

Facilitate the creation and implementation of new assets in the construction sector, integrating the latest technologies and innovative solutions.





Value Chain



















INNOVA CHM

Conservazione e valorizzazione del patrimonio costruito, storico e artistico per il recupero, il restauro ed il riuso intelligente, mediante innovazioni tecnologiche e di processo.

Conservation and valorization of built heritage toward the improvement and smart reuse, by means of technological and process innovations.





SICUCI

Sicurezza delle costruzioni e delle infrastrutture civili, per ridurre la loro vulnerabilità e mitigare il rischio ambientale (sismico, idraulico ed idrogeologico).

Safety of buildings and civil infrastructures, to mitigate vulnerability and environmental (seismic, hydraulic and hydrogeological) risks.

GREEN 2 BUILD

Efficienza energetica e sostenibilità in edilizia, per edifici energeticamente efficienti, resilienti e sostenibili.

Energy efficiency and sustainability in buildings, for energyefficient, resilient and sustainable buildings.



Strumenti e metodi innovativi di innesco di pratiche rigernerative nella città e nel territorio, per il benessere ambientale, economico e sociale della comunità.

Instruments to support virtuous pathways of triggering regenerative dynamics that intervene on physical, economic and social aspects of the process.



Working Gorup



SUSTAINABLE MOBILITY

The use of artificial intelligence in the mobility sector starting from the right to mobility of people, the need to plan the transformation of cities....

TRAINING

Training is a central driver for development and **innovation**, which in the construction sector are guided in a closely combined way by the needs for a **sustainable transformation** of the building





INNOVATION

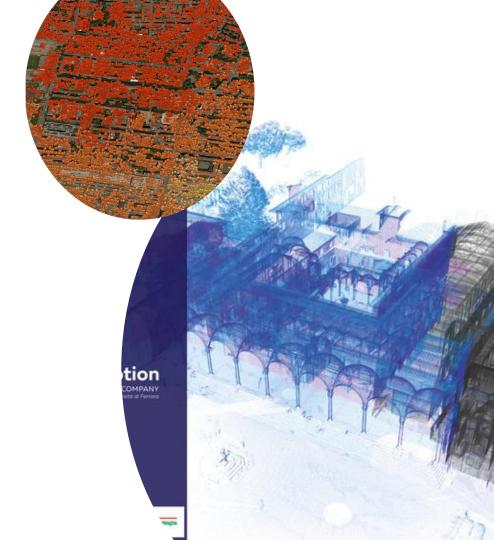
Presentation to institutions/administrations of the cycle of regeneration, reactivation and 'monitoring' of public heritage as generators of 'value' and hospitality...

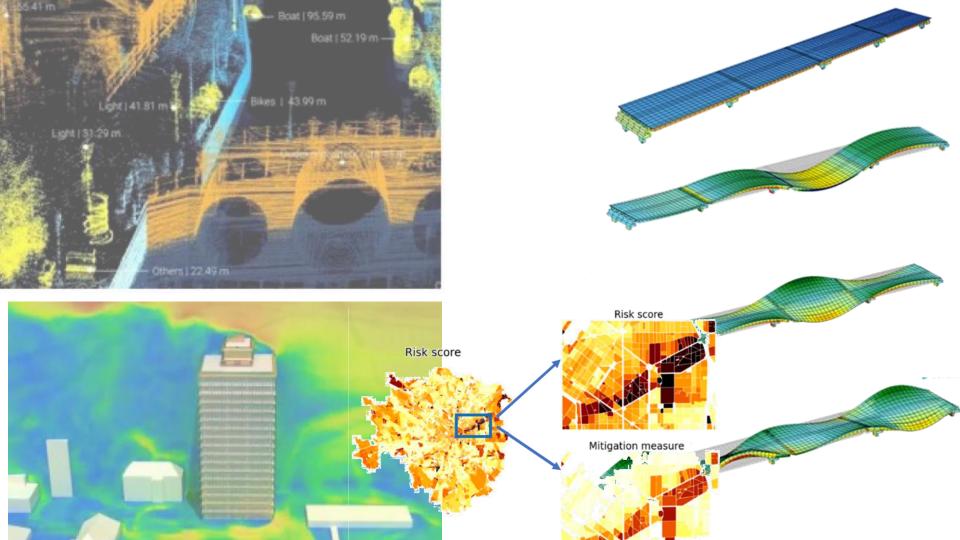


TECH3D DEVELOPMENT FOR CULTURAL HERITAGE

Promotion, discussion and debate initiatives aimed at tracing, in the specific field of 3D Digitization Technologies



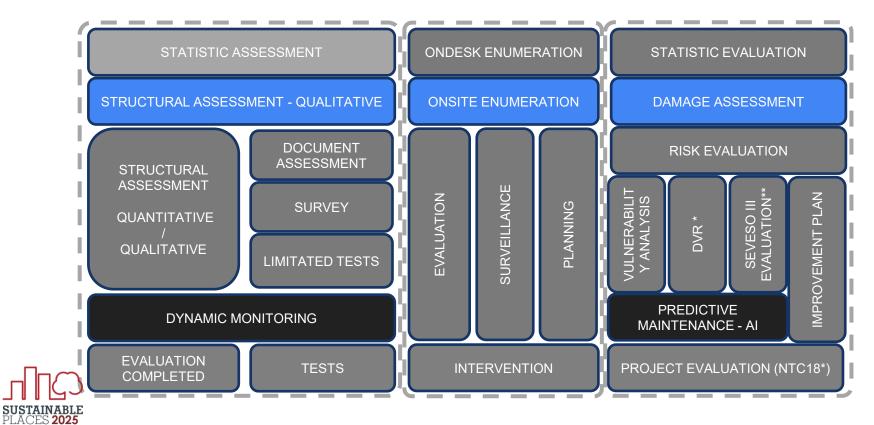






Structural Risk Assessment

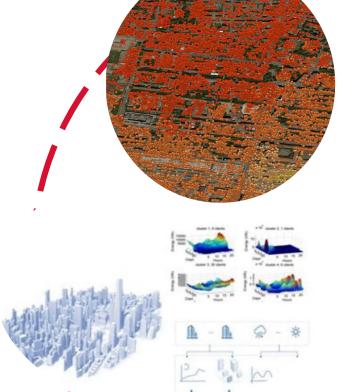






Open Innovation











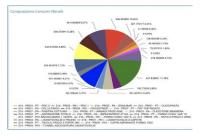
Romagna Cost Digital Twin





Smart Energy System

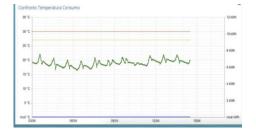




Scomposizione Consumi **Piattaforma**



Analisi per KPI e Report



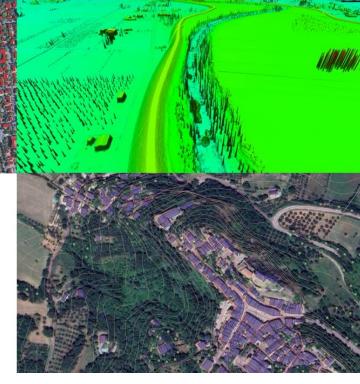
Alert statici e
- Gestione Manule tenzione
- Alert di diversi livelli
- Report e KPI
- Analisi su vari frame
(giorno, ora, settimana, periodi personalizzati)











Partner

CICCREI – Interdepartmental Research Center for the Conservation, Construction, and Regeneration of Buildings and Infrastructures – University of Parma

UNIFE – TekneHub Laboratory – University of Ferrara

UNIBO - CIRI EC Interdepartmental Center for Industrial Research in Building and Construction - Alma Mater Studiorum - University of Bologna

CRICT – Interdepartmental Research Center and Services for the Construction and Territory Sector

University of Modena and e Reggio-Emilia

Certimac Scarl – Certification of Building Materials

Companies participating in the project

CON.AMI – Consortium of Intermunicipal Multi-Services Company

Confabitare – Association of Property Owners **ICIE** – Cooperative Institute for Innovation, Soc. Coop.

BUILTI S.r.I.

PERFORMA - Architecture + Urban Planning

ALLODI srl

Officina Meme Architetti

Raise>Up srl





The pursuit of resilience in the face of new threats necessarily involves acquiring new skills, identifying specific focal points on such issues, and implementing a systematic process for gathering information that adequately integrates climate risk into the organization's existing risk management system.

continuously monitor potential threats

forecasting capabilities for phenomena

develop specific crossorganizational practices







Phone +39 347 4503560

Web: build.clust-er.it

Mail: silvia.rossi@build.clust-er.it

C.F. 91399960375





ITC-CNR: HOW RESEARCH SUPPORTS INNOVATION IN THE BUILDING SECTOR Collaboration with STRESS-B4PIC

ALICE BELLAZZI

Researcher, ITC-CNR







ITC-CNR Construction Technologies Institute of National Research Council of Italy

The Institute carries out applied research, technical evaluation and certification, training and information activities related to the construction process.

L'Aquila

Bari

Padova

Napoli

Milano

Sustainable Construction Innovation

Research on evaluation and verification methods of advance construction technologies, sustainability and energy efficiency, envelope materials and components assessment.

Energy and Environmental Performance in HVAC

Design and testing of systems and components to enhance energy efficiency and sustainability in air conditioning and refrigeration.

Seismic Risk and Vulnerability Assessment

Analysis and mitigation of seismic vulnerability in historic, public and school buildings, with strategies for emergency planning.

Structural Safety under Natural and Human Risks

Assessing the safety of structures and non-structural components exposed to environmental hazards

Digital Heritage and Ecological Transition of the Built Environment

Development of digital models and virtual tours for architectural assets, supported by online geographic information systems. Ecological transition for the sustainable and resilient development of the environment and territories.





Our mission

Promote **innovation** in the construction value chain, creating **collaborative ecosystems** that connect research, business and territory. **Sectors**:

Smart Cities – Buildings and Cultural Heritage – Infrastructures - Digitalization -Energy - Sustainability

What we do

- Innovation projects at Regional, National, and European levels
- Scouting and support services for funded projects
- · Technical services for engineering and architecture
- Professional training for new digital and sustainable skills

PUBLIC RESEARCH BODIES

46%

Studi
Università degli
Studi
del Molise

Università degli studi di Padova Università degli Studi di Padova

Brancaccio

Costruzioni

A.g.S



GENEGIS



Tecno in S.p.A.

Consorzio Integra SEA Costruzioni S.r.l.



Arethusa S r I









STRESS Scarl

Innovation Hub for sustainable, connected and digital cities

STRESS is a non-profit public-private consortium company was established in Naples in 2010

Our numbers

- National and Regional Innovation Projects
 58 mIn€
- European Projects 3,5 mIn€
- Vocational Training Projects
 4 mIn€



CNR - Consiglio Nazionale

GENEGIS GI

delle Ricerche

Università degli Studi

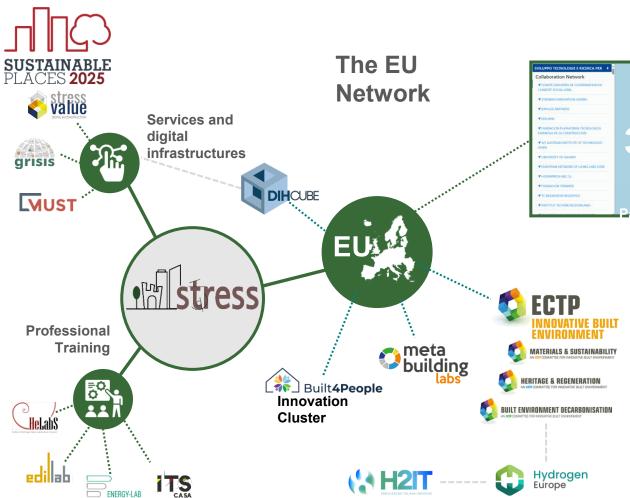
di Napoli Federico II

MAPELS.p.A.

TECNOSISTEM

TecnoSistem S.p.A

MAPEI





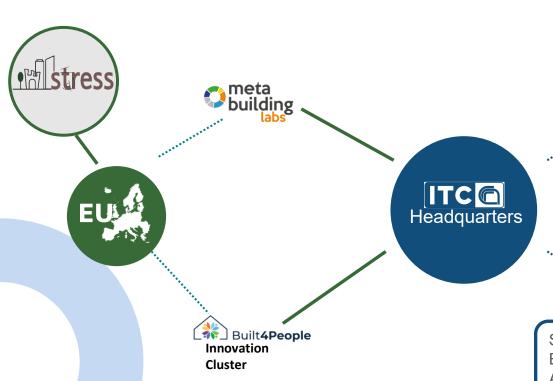












Materials, Components and Innovative Technologies for Safe and High-Performance Construction





Sustainable Solutions and Technologies for Energy Efficiency, Environmental Quality and Acoustics in Buildings and Urban Areas

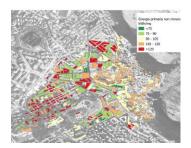




Research topics/activities



ENERGY EFFICIENCY



SUSTAINABILITY AND CLIMATE ADAPTATION



THERMAL
MEASUREMENT
AND TESTING



APPLIED ACOUSTIC



INDOOR ENVIRONMENTAL QUALITY





Thermal Energy Lab



Guarded hot box for Thermal Transmittance / Thermal Resistance of opaque components and glazing system



Hygrothermal performance of ETICS



Heat flow meters for Thermal Conductivity / Resistance of materials





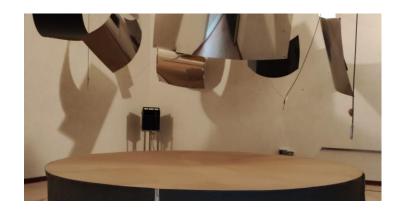
Acoustic Lab



Reverberation chamber to measure the sound absorption and the noise of small components of plants



Coupled test chambers for sound reduction index of envelope components and sound insulation.



Measurement of the random-incidence scattering coefficient







ÖPTIMIZER

Facilities

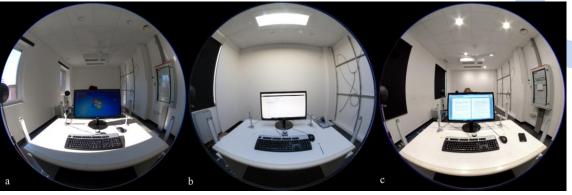
ZEB-LAB

- Extended testing on innovative envelope and systems components and optimization
- Analysis of user perception: comparison between objective and subjective data











ITC

Facilities

OUTDOOR TEST CELLS AND FULL SCALE TEST BUILDING

- Extended testing on vented façade, green walls and innovative systems
- Comparison between innovative and traditional envelope components
- Assessment of the acoustic performance of roof coverings and pitched roof structures

















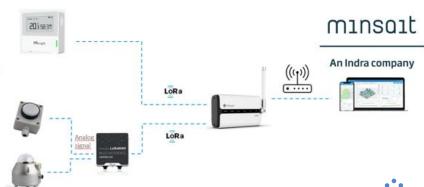


Metabuilding LABS

Design of the monitoring of real performance of innovative envelope systems to improve the energy performance of existing buildings within a network of pilot sites (Vipasa, Hormipresa, Başakşehir Living Lab, Polylogis, Room2030). Assistance in defining a standardized procedure for performance monitoring and analysis.













THANK YOU

ALICE BELLAZZI

Researcher, ITC-CNR a.bellazzi@itc.cnr.it





SPREENTECH VENTURES: A STARTUP ACCELERATOR

LUCA LUCCHESE

General Manager, Spreentech Ventures







Spreentech Ventures: A Private Startup Accelerator



- Spreentech Ventures S.r.l. S.B. was founded in Rovereto (TN), Italy, in 2022 as an initiative of Polo Edilizia 4.0 and with capital from 25 private companies; it now has 39 shareholders
- Its objective is to develop competences, to disseminate know-how, and to foster innovation in the costruction & green economy sectors, with a special focus on sustainability, in collaboration with the various players involved in this field
- ☐ It pursues this objective:
 - 1. by selecting **innovative startups** which it supports financially and accelerates with ad hoc programs
 - 2. by organizing conventions & training courses

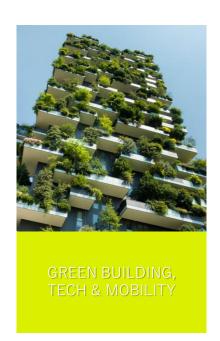


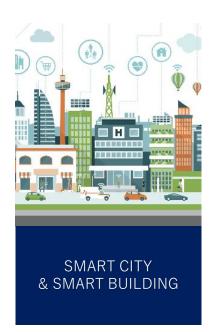


Spreentech Ventures' Verticals of Interest



CONSTRUCTION 4.0





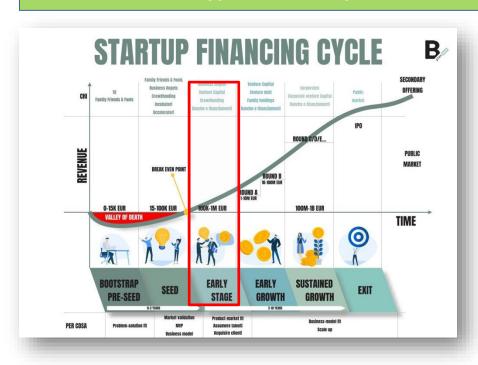


CIRCULAR ECONOMY & ESG IMPACT





Which Types of Startups?



Early Stage

- The startup team has developed a rudimentary but working product/service (Minimum Viable Product – MVP)
- First revenues
- Challenges:
 - **1. Product-Market Fit** (to adapt the product/service to the market)
 - 2. To secure customers
 - 3. To scale up the business model
 - 4. To achieve economical sustainability





Our Major Shareholders





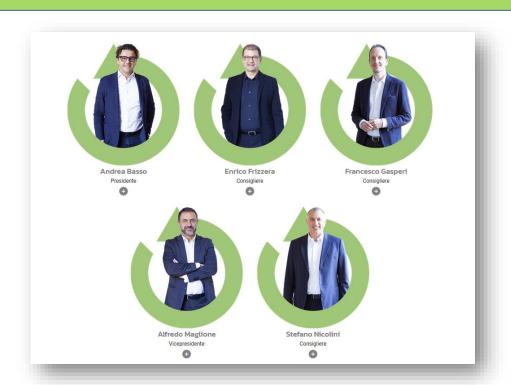








Board of Directors







Spreentech Ventures' Collaboration Network







Our Acceleration Support to Startups

- Up to 100K Investment equity or semi-equity
 (e.g. SAFE) exit expected in 5-6 years
- **2)** Governance support in case of equity
- **Mentoring & consulting services (charge of 30K)** for finance, marketing, legal, IP management, etc.
- 4) Access to our collaboration network
- 5) Advising & support for follow-on rounds
- 6) «Go To Market» support







Our Startup Portfolio: Sustainability-Driven

Sustainability in Mobility

SWILCH

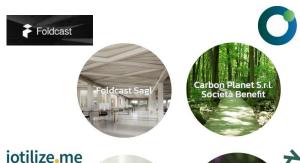




Al-based Human-centric intelligent indoor lighting



Sustainability through CO₂ reduction











Share Capital Increase

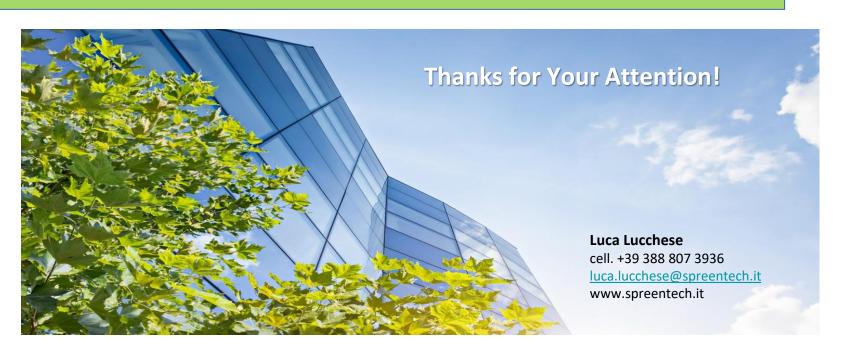
Call for Investors!

- ☐ Spreentech Ventures started with 25 founding companies in 2022
- ☐ Other 14 companies became shareholders in 2024 through a first operation of capital increase
- A new capital increase is ongoing and we actively looking for new partners in our venture
- ☐ Deadline: November 14th, 2025





Spreentech Ventures







EDERA A deep renovation innovation cluster and value chain

THOMAS MIORIN

CEO, EDERA









CLUSTERING FOR DEEP RENOVATION AT SCALE

Thomas Miorin

EDERA CEO & co-founder

EDERA



EDERA is the Italian innovation centre for built environment decarbonization and regeneration

We research, experiment and disseminate innovative building solutions to reduce construction time, cost and environmental impact

Funded by







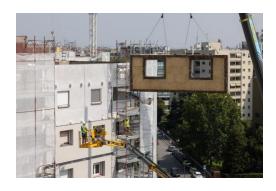
What we do



MAKET DEVELOPMENT INITIATIVES

Energiesprong: open innovation path for a deep redevelopment on the big

- Over 65 involved organizations
- 150.000 housed activated portfolio



SERVICES

Competence and services center for the offsite technologies

- Product innovation and technical consulting
- Training and support for offsite process adoption



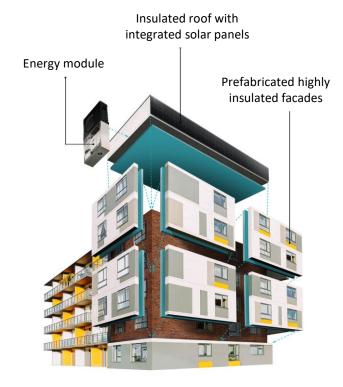
EnergieSprong: retrofit for all



An international open innovation program to provide zeroenergy retrofit at scale with fast and replicable interventions thanks to digitalisation and industrialisation.

Over 15.000 renovations with the important benefits:

- Cost reduction up to 40%
- Intervention time reduction 50%
- NZEB performance guaranteed for 30 years
- Anti-seismic renovations



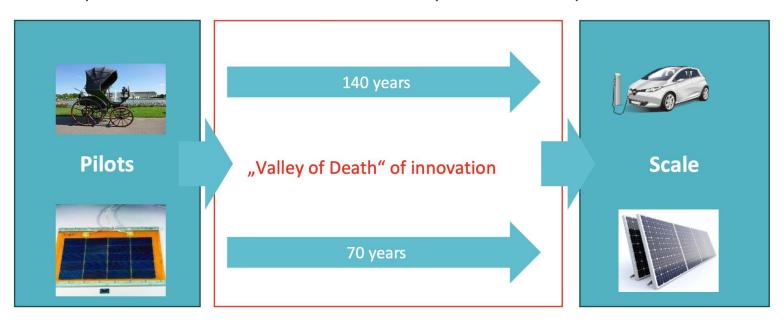


UN World Habitat Award: world's best solution for housing emergency 2024

Task to solve



Climate protection innovations have taken many decades from pilot to reach scale.



To retrofit the built environment by 2050 we need retrofit innovations at scale within 5 years.

Manufacturing in construction



Industrialized construction processes (offsite) consent to reduce time, costs and increase sustainability, quality, productivity and profitability.





Prefab NetZero Retrofits: triple speed and productivity through standardised products and processes



Quelle: Gewobau Erlangen/ Klaus Dieter Schreiter



Quelle: Opitz Holzbau



Quelle: Tamara Pribaten/dena



Quelle: VBW Bochum

3D-Scan+ automatic planning

Prefab roof, facade, heating system

Installation of elements

NetZero retrofitted building



Quelle: Gewobau Erlangen, Klaus Dieter Schreiter



Quelle: FactoryZero



Quelle: Tamara Pribaten/dena



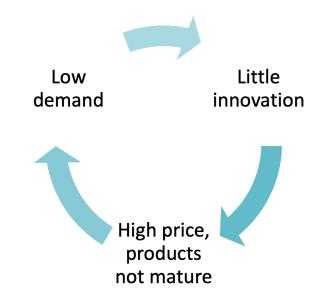
Quelle: Tamara Pribaten/dena

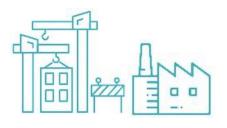
Innovations need to solve the "chicken-and-egg" problem.



Building owners & Tenants

DEMAND

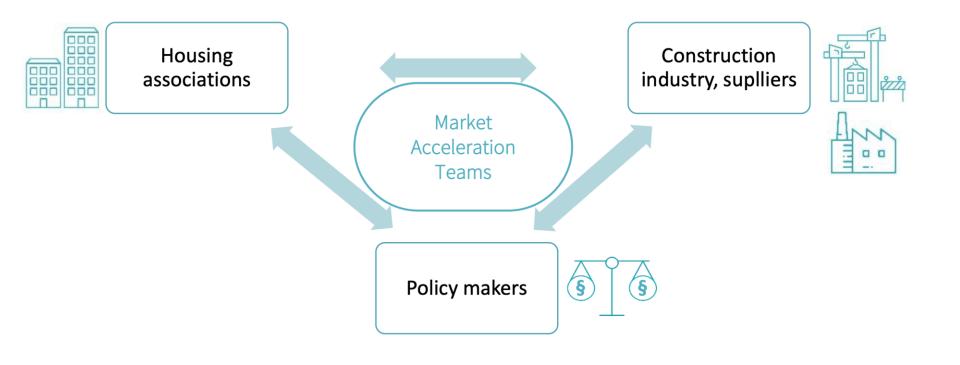




Construction industry & suppliers

SUPPLY

Neutral **Market Acceleration Teams** connect stakeholders and remove barriers.



Tasks of Market Acceleration Teams

- adopted to specific building segments



Inspire, Activate

Acquisition of innovators and first movers



Networking & Matchmaking

 Matching suppliers and building owners



Pilots & First Markets

- Organising first demonstrators
- Creating demand
- Brokering volume deals



Consulting

- •Supporting change within companies
- Business case and financing schemes



Know-How Transfer

Evaluation and dissemination of best practices and learnings



Product Development

- Innovation scouting and networking
- Workshops and competitions to improve quality and reduce costs



Policy Making

- Organising subsidies
- Reducing bureaucracy to lower costs



Communication

Publishing success stories

International results

>15.000 renovations + 25.000 in pipeline





Netherlands: renovations in the catalogue



	ERAFLATS	heijmans b'woond	triple solar	renolution 🗘
		WILMA		
Costi di investimento	€ 44.600	€ 46.000	€ 25.000	€ 60.000
Costi di investimento + manodopera	•	•	•	•
VALUTAZIONE DA CONSULENTE ESTE	RNO			
Riduzione del fabbisogno di calore	***	***	***	***
Riduzione delle emissioni di CO ₀	***	***	***	***
	***	***	***	***
Pronto per la neutralità CO ₂	***			
	***	***	***	***
Pronto per la neutralità CO ₂		***	***	***

England: 1 million retrofit/year plan

- Transform-ER: national plan to enable 1 million retrofit/year

France: PNRR Energiesprong

- Regional scale renovation programs
- French National Renovation Plan, social housing investment with EnergieSprong renovations to reduce the retrofit cost in 5 years

Germany: ¼ renovations is offsite

- Governmental program managed by the Energy Agency



- 15% bonus on top for EnergieSprong retrofit
- In 2 years, EnergieSprong deep retrofit from 2% to 23%



Italian cluster

Energiesprong Italy: an open ecosystem



Services providing companies



















Owning and managing











ARCHITECTURE, ENGINEERING, **SOCIAL**

DESIGNERS















institutions * ABITARE # ACCE











































DEMAND

OWNERS AND BUILDING MANAGERS energie sprona



Facilitators













Design studios







STRUCTURAMA



Mario Mariotto







FACILITATORS

FINANCE, INSURANCE, RESEARCH









The Energiesprong renovated ERP towers



BUILDING DATA

- ALER Milan property
- 4 towers and 187 ERP (Public residential building) housings

MAIN INTERVENTIONS

- Façade thermic insulation
- Roof insulation and green roof
- Fixtures and roller shutters replacement
- Thermal plant revamping and cost allocator installation
- New PV plant with storage

PROCUREMENT

Public Private Partnership for retrofit and 10 maintenance years











Speed and efficiency

energie sprong

1 FLOOR PER DAY WITH 4 PEOPLE



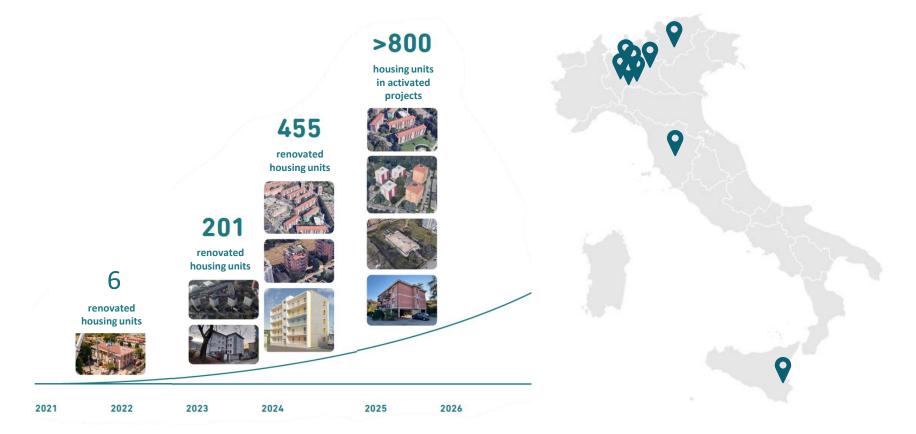




- Offsite façade use for the energetic retrofit, installed without use of scaffolding
- Executive time reduction, logistic optimization and reduction of the traffic caused by the construction site

EnergieSprong interventions in Italy



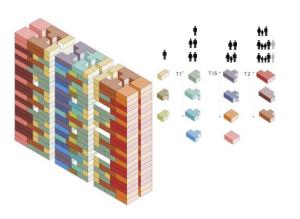


A new platform to make new housing affordable



We analyse and create conditions to make new housing interventions cheaper, quicker and greener through offsite solutions

Modularity



Total Cost of Ownership



Quality



Different fields of innovation



H2020 Infinite

«Kit» for deep and industrialized renovation



<u>Scalability of industrialized solutions</u> for renovations

LIFE Cosme Reno

Preparation of SME for EnergieSprong retrofits

LIFE Street HP Reno

<u>Purchase models</u> and urban-scale application of <u>heat pumps</u>

MAIN PARTNERS







one team



MAIN PARTNERS





















MAIN PARTNERS







LIFE RenoVa

Support Public sector in the energy efficiency challenge

LIFE BuildUPspeed

Accelerate deep renovation

LIFE Arec

<u>collective purchase schemes</u> with <u>bio-based materials</u>

LIFE RenoTides

Support multi-stage retrofits



MAIN PARTNERS

















Key points



CLUSTER:

- Open innovation: coopetition
- A totally new market -> new value chains

EDERA:

- Work national but speak international
- Be neutral (no profit)
- Balance market initiatives (EU projects) and services







Part II

NEB 2025-01 Calls Brokerage Session		
Moderator – Germain Adell , MD Metabuilding Association		
Germain Adell	Call Topic NEB 2025-01 Overview	
Marco Mazzioti Director - EU Funding, Milan	Call topic perspectives from the city perspective.	
Attendees	Remarks and Interventions and conversations carried over to the networking lunch.	





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

New European Bauhaus topics Brokerage Event Sustainable Places 2025 - Milano

Germain ADELL – Metabuilding ASBL General Director

08/10/2025



METABUILDING LABS Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No. 953193. The sole responsibility for the content of this document lies entirely with the author's view. The European Commission is not responsible for any use that may be made of the information it contains

The STAR*track project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101147509.

HORIZON-NEB-2025-01 Call for Proposals



Call: HORIZON-NEB-2025-01 - A research agenda for a beautiful, inclusive and sustainable transformation of neighbourhoods Deadline for all topics: 12 November 2025

Destination	Topic ID	Topic Title	Action Type	Total Budget	Budget/Project
1. Participation	PARTICIPATION- 01	The impact of common space on neighbourhood communities	RIA	€10.5M	~ €3.5M
	PARTICIPATION- 02	Fostering and maintaining the social fabric for the green transition	RIA	€9M	~ €3M
	PARTICIPATION- 03	Beautiful, sustainable and inclusive street furniture	IA	€10.4M	~ €5.2M
	PARTICIPATION- 04	Network of neighbourhoods for innovative policies on gentrification	CSA	€2.5M	~ €2.5M
2. Regeneration	REGEN-01	Applying regenerative design to the built environment	IA	€16M	~ €8M
	REGEN-02	Bio-fabricated materials for sustainable and beautiful construction	RIA	€10M	~ €5M
	REGEN-03	Sufficiency measures in the built environment	RIA	€8M	~ €4M
	REGEN-04	Innovative approaches for social and affordable housing	IA	€16M	~ €8M
3. Business Models	BUSINESS-01	Renovating through design for adaptability and disassembly	IA	€12M	~ €6M
	BUSINESS-02	Bottom-up social entrepreneurship for co-creation of neighbourhoods	IA	€12M	~ €4M
	BUSINESS-03	Reverse local construction supply chains for reassembly	RIA	€12M	~ €4M



The impact of common space on neighbourhood communities

- Action Type: Research and Innovation Action (RIA)
- Total Budget: €10.5 Million
- Budget per Project: ~ €3.5 Million

Expected Outcomes

- Better understanding of how the design, aesthetics, and features of common spaces affect inhabitants' behaviour, health, sense of belonging, and security.
- Enhanced capacity for public administrations to integrate these insights into policies for the regeneration of common spaces.

- Analyse the medium and long-term impacts of common spaces on community cohesion, social interaction, and civic participation.
- Investigate how the design process (e.g., participatory approaches) and cultural heritage preservation influence these effects.
- Examine how different groups (women, children, older adults, people with disabilities) use and experience common spaces.



Fostering and maintaining the social fabric for the green transition in neighbourhoods

Action Type: Research and Innovation Action (RIA)

• Total Budget: €9 Million

Budget per Project: ~ €3 Million

Expected Outcomes

- Better evidence for public authorities on how cultural participation can reinforce the social fabric and support the green transition.
- Improved methods to increase inhabitants' sense of belonging and collective ownership in the transformation of their neighbourhoods.

- Study the interplay between cultural participation, social connections, and civic engagement.
- Propose, demonstrate, and monitor at least three evidence-based methods in at least three different neighbourhoods to foster the social fabric.
- Provide recommendations for public authorities on facilitating cultural participation.



Beautiful, sustainable and inclusive street furniture for the transformation of neighbourhoods

Action Type: Innovation Action (IA)

• Total Budget: €10.4 Million

• Budget per Project: ~ €5.2 Million

Expected Outcomes

- Better evidence on the uses of street furniture and the role of co-creation to inform public procurement.
- Improved quality of experience, safety, and inclusiveness in neighbourhoods through innovative street furniture.

- Develop and demonstrate innovative designs for sets of street furniture that are functional, resilient, and improve environmental performance (e.g., using nature-based solutions and sustainable materials).
- Ensure designs strengthen the aesthetic and cultural integrity of the space and meet the needs of diverse population groups.
- · Apply participatory methods for co-designing and prototyping.



Network of neighbourhoods for innovative policies on gentrification

Action Type: Coordination and Support Action (CSA)

• Total Budget: €2.5 Million

• Budget per Project: ~ €2.5 Million

Expected Outcomes

- Increased use of policies to mitigate the negative consequences of gentrification (e.g., displacement)
 while enhancing positive impacts.
- Increased capacity of local policymakers to anticipate and address gentrification in line with NEB values.

- Create a bottom-up network of at least 15 neighbourhoods at risk of gentrification to exchange knowledge and innovate in policymaking.
- Map needs, identify best practices, and support local decision-makers in understanding the drivers and effects of gentrification.
- Develop or revise local policies or regeneration strategies to mitigate gentrification risks.



Applying regenerative design to the built environment in neighbourhoods

Action Type: Innovation Action (IA)

• Total Budget: €16 Million

Budget per Project: ~ €8 Million

Expected Outcomes

- Make tested and proven principles of regenerative design available to the construction ecosystem.
- Develop improved tools and technologies that enable the application of regenerative design.
- Contribute to the regeneration of natural ecosystems and biodiversity.

- Analyse at least 10 existing examples of regenerative design in buildings.
- Develop and demonstrate at least one innovative solution (tool or technology) that facilitates regenerative design.
- Demonstrate the solution(s) in at least three diverse neighbourhoods in at least three different countries.
- Includes the possibility of Financial Support to Third Parties (FSTP).



Bio-fabricated materials for sustainable and beautiful construction

- Action Type: Research and Innovation Action (RIA)
- Total Budget: €10 Million
- Budget per Project: ~ €5 Million

Expected Outcomes

- Increased market acceptance of bio-fabricated construction materials among professionals.
- Demonstrated pathways to produce innovative, sustainably sourced, and beautiful bio-fabricated materials at mass scale and competitive cost.

- Develop and test at least two innovative sustainable bio-fabricated materials with novel features (e.g., self-repair, carbon storage).
- For each material, assess its properties (structural, thermal, aesthetic, etc.) and study the feasibility of mass-scale production using high-tech manufacturing (e.g., 3D printing, AI).
- Analyse the environmental, social, and economic impacts using life cycle assessment (LCA)
 approaches.



Sufficiency measures in the built environment

- Action Type: Research and Innovation Action (RIA)
- Total Budget: €8 Million
- Budget per Project: ~ €4 Million

Expected Outcomes

- Better mapping of vacant and under-utilised spaces to enable more effective decision-making.
- Validated sufficiency measures that lead to an absolute reduction in demand for energy, materials, land, and water.
- Better understanding among professionals of the impacts and barriers related to sufficiency measures.

- Test and validate an approach to map and quantify vacant and under-utilised spaces.
- Test and validate at least two sufficiency measures that optimise, repurpose, or expand the use of space.
- Test these measures in at least three diverse neighbourhoods in at least three different countries.
- Propose and validate solutions to overcome non-technical barriers (e.g., regulatory barriers, social acceptance).



Innovative approaches for sustainable, inclusive and beautiful social and affordable housing

Action Type: Innovation Action (IA)

• Total Budget: €16 Million

• Budget per Project: ~ €8 Million

Expected Outcomes

- Reduced costs for both new construction and renovation of social and affordable housing without sacrificing quality.
- Increased availability and affordability of quality housing for diverse and vulnerable populations.
- Significantly reduced energy consumption, carbon emissions, and resource use.

- Develop innovative approaches for how construction and renovation services are defined, procured, delivered, and financed.
- Implement two ambitious packages of market-ready technologies in two social/affordable housing projects: one new construction and one renovation.
- Use existing technologies (e.g., off-site construction, digital twins) and sustainable practices (e.g., nature-based solutions).
- Includes the possibility of Financial Support to Third Parties (FSTP).

HORIZON-NEB-2025-01-BUSINESS-01



Renovating the built environment through design for adaptability and disassembly

- Action Type: Innovation Action (IA)
- Total Budget: €12 Million
- Budget per Project: ~ €6 Million

Expected Outcomes

- Availability of processes, methods, and techniques for the modular adaptation and repurposing of existing buildings.
- Clear evidence for stakeholders on the business case and multi-faceted impacts of this type of renovation.

- Develop at least two renovation processes, methods, or techniques based on "design for adaptability and disassembly."
- Demonstrate the solutions in at least two pilots in at least two different countries (one building, one common space/infrastructure).
- Assess barriers to market uptake and propose solutions to overcome them.
- Quantify the environmental, economic, social, and cultural impacts of the solutions.

HORIZON-NEB-2025-01-BUSINESS-02



Bottom-up social entrepreneurship for the co-creation of neighbourhoods in line with the New European Bauhaus

Action Type: Innovation Action (IA)

Total Budget: €12 Million

• Budget per Project: ~ €4 Million

Expected Outcomes

- New scientific evidence on how bottom-up social entrepreneurship contributes to co-creating NEBaligned neighbourhoods.
- Empowered inhabitants and civil society actors with the capacity to engage in social entrepreneurship.
- Increased quality of life, social cohesion, and new employment opportunities.

- Deliver at least three bottom-up social entrepreneurship pilots in at least three different countries.
- Analyse local barriers and drivers for each pilot and assess the business case for attracting impact investment.
- Demonstrate how cooperation between inhabitants and civil society can build capacity and foster a shared sense of belonging.

HORIZON-NEB-2025-01-BUSINESS-03



Reverse local construction supply chains for the beautiful re-assembly of reclaimed construction products

- Action Type: Research and Innovation Action (RIA)
- Total Budget: €12 Million
- Budget per Project: ~ €4 Million

Expected Outcomes

- Innovative approaches for the safe, sustainable, and beautiful re-assembly of reclaimed construction products.
- Increased re-assembly of construction products at the local and regional level.
- New scientific evidence on the social, cultural, economic, and environmental benefits of these reverse supply chains.

- Explore at least one innovative approach to re-assemble construction products in a way that increases their economic, environmental, and aesthetic value.
- Consider the environmental footprint and local availability of reclaimed materials, building on existing circular construction platforms where possible.
- Validate how the proposed solutions create new value, revenue streams, and business opportunities.

A People-Centric Ecosystem for the Future of Social Housing

Answering the call: **HORIZON-NEB-2025-01-REGEN-04** *Innovative approaches for sustainable, inclusive and beautiful social and affordable housing Brokerage Event for HORIZON-NEB-2025 Calls*



The Strategic Context: Why This Topic Matters

This call is not just about buildings; it's about implementing Europe's core policy goals at the neighbourhood level.

- The European Green Deal & Renovation Wave: The topic is a key instrument for the Renovation Wave, which aims to decarbonise Europe's building stock. Social housing is a critical lever for achieving this at scale.
- The New European Bauhaus (NEB) Imperative: The call explicitly integrates the three NEB pillars, moving beyond purely technical solutions. It demands projects that are:
 - Sustainable: Addressing climate goals, circularity, and resource use.
 - Inclusive: Focusing on affordability, accessibility, and quality of life for all, especially vulnerable groups.
 - Beautiful: Recognizing the importance of aesthetics, cultural value, and creating a sense of belonging.
- A Just Transition: By targeting the social and affordable housing sector, the call aims to ensure that the
 green transition is fair and improves the lives of all citizens, tackling issues like energy poverty and housing
 quality.

This topic is a unique opportunity to demonstrate how the green transition can deliver direct social benefits.



Decoding the Call: What you need to have

The topic text sets out clear, ambitious goals. A successful project must deliver on all of the following

Expected Outcomes:

- Reduce Costs without Sacrificing Quality: Develop innovative approaches that lower the costs of both new construction and renovation, making high-quality, sustainable housing more accessible.
- Increase Availability & Affordability: Directly contribute to providing more and better housing options for diverse and vulnerable populations across Europe.
- **Drive Deep Sustainability:** Achieve significant reductions in energy consumption, carbon emissions, and resource use, while also improving climate resilience.
- Create Market Awareness: Ensure that the innovative approaches developed are visible and understood by the entire construction ecosystem and real estate sector, paving the way for wider market uptake.

Any proposal must provide a credible pathway to achieving all four of these interconnected outcomes.



The Core Challenge: A Trilemma for Social Housing

To meet the call's objectives, a project must solve a fundamental trilemma that currently hinders progress in the social housing sector:

- The Economic Challenge: How can we implement high-quality, beautiful, and deeply sustainable solutions while respecting the strict budget constraints and long-term affordability requirements of social housing providers?
- The Social Challenge: How do we move from a top-down, technology-first approach to a truly inclusive, co-creation process where residents are active partners, ensuring the solutions meet their real needs and foster a sense of community and belonging?
- The Innovation Challenge: How do we bridge the "valley of death" for promising construction innovations? The market is fragmented, and housing providers lack trusted, reliable methods to discover, validate, and procure new solutions without taking on excessive risk.

A successful project must present an integrated model that solves the economic, social, and innovation challenges simultaneously.



Open Discussion



Thank you for your kind attention

Contact: g.adell@metabuilding.com





Join the Metabuilding Association as Affiliate Member



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