



## SUM4RE Newsletter #3

15 December 2025

### Introduction :

Welcome to the 3rd edition of the **SUM4Re newsletter**! As we reach the first half of the project, let's dive together into the progress made and the work to come!

SUM4Re is a project paving the way for a circular future in urban construction. By harnessing cutting-edge technologies to create **digital material banks**, SUM4Re is reimagining how we manage urban waste.

Want to know more? Our YouTube channel is now live, and you can watch [the project introduction video!](#)

Please follow us on social media to be updated on the news:

 Website: [www.sum4re.eu](http://www.sum4re.eu)

 LinkedIn: [SUM4Re](#)

X: [@SUM4Re\\_EU](#)

 YouTube: [SUM4Re EU Project](#)



## PROJECT OVERVIEW: WHAT'S NEW ?

- **Review meeting:** with the first half of the project closed to completion, SUM4Re run through its first review meeting on the 8th

December in Brussels.

- **Data collection:** On-site data collections have been successfully conducted at all pilot sites! We are now moving on to the next step: processing and analyzing those data. Stay tuned for the results!
- **Workshops and events:** many opportunities were taken to present SUM4Re's results to stakeholders and engage in discussion with them.
- **Questionnaires:** We are still actively looking for your insights on topics regarding circular construction and C-BIM! Don't miss this chance to make your voice heard. [Find our questionnaires right here.](#)
- **New video!** SUM4Re released a new video showcasing how urban mining and digital tools are helping create material banks for a more sustainable construction sector. Watch it right here: <https://www.youtube.com/watch?v=hvW5NoLMpHg>



## UPCOMING EVENTS

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### EnerJ-meeting in Paris on 10th February 2026

**EnerJ-meeting** Paris is a leading one-day event dedicated to energy efficiency, sustainable construction, and building renovation. It brings together professionals, innovators, and public authorities to exchange knowledge and present solutions for low-carbon, future-proof, and resilient buildings.

In February, SUM4Re, together with [BrainBox AI](#), [KAIZIS SmarterEPC](#), [REGEN EU Project](#), [SEEDS EU project](#), [Demo-BLog](#), will be showcased at the EnerJ-meeting, where we will have a dedicated booth, coordinated by [R2M Solution France](#).

Registration are open here: <https://www.enerj-meeting.com/enregistrez-vous>

We hope to see you there!

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## LATEST NEWS



### SUM4Re's first review meeting happened in Brussels!

In December 2025, the SUM4Re consortium gathered at the [European Builders Confederation EBC](#) premises for our first Review Meeting. Throughout the day, all partners presented the progress made across technical, scientific, and management activities, from smart data acquisition and AI development to circular construction strategies, waste reduction, secondary materials, productivity improvements, and pilot demonstrators.

[More of it on our website!](#)

Funded by the European Union

SUM4Re BIO4EEB DISCOVER

## Towards more circularity in construction

A collaborative approach from EU-funded research projects

Tuesday, 9 December 2025  
09:30 - 13:00 CET

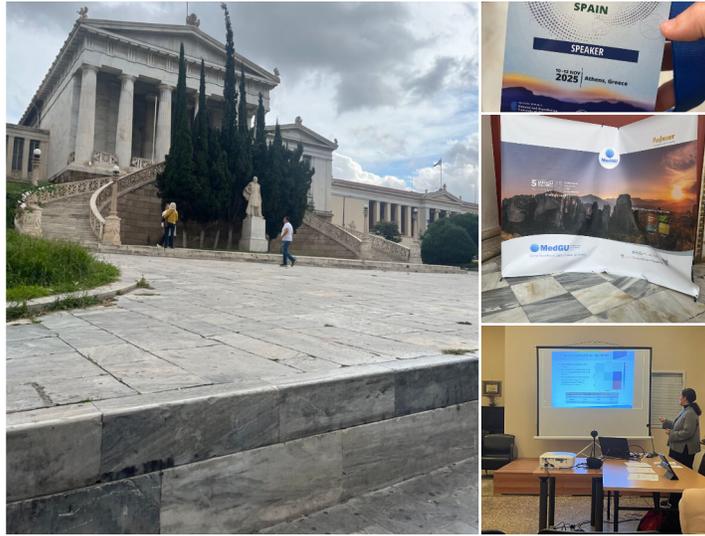
EBC premises  
Rue Jaques de Lalaing 4, 1040, Brussels (first floor)

### Towards more circularity in construction: a joint event by SUM4Re, BIO4EEB and DISCOVER

In December 2025, the SUM4Re team took part in the joint event *“Towards more circularity in construction”* at the EBC in Brussels, together with sister projects [BIO4EEB](#) and [DISCOVER Horizon](#). The programme featured sessions on bio-based insulation materials, material data acquisition and urban mining, and digital tools for reuse, highlighting how the three EU-funded projects are collaborating to advance circular practices in the construction sector.

[Read more on our website!](#)





### SUM4Re at MedGu Conference 2025

During the MedGu conference in November 2025, SUM4Re and [Clara Garcia Moll \(Universidade de Vigo\)](#) presented a study on "Automated Material Segmentation in 3D-RGB Point Clouds Captured via Mixed Reality for Sustainable Demolition Practices."

Their innovative, low-cost method uses Microsoft HoloLens 2 (instead of LiDAR) to automatically identify construction materials in 3D before demolition. The workflow merges RGB images with depth sensor data and uses a region-growing algorithm for segmentation.

👉 [Find out more about it on our website.](#)

### SUM4Re at Sustainable Places Conference 2025

A vibrant October 2025 session in Milan united researchers, entrepreneurs, and citizens to discuss circular innovation for Europe's green transition. Key highlights included the showcasing of 8 Horizon Europe projects [ReBoat Project](#), [Theseus Hub4Circularity](#), [DeremCo](#), [Wood2Wood Project](#), [YouRban](#), [SUM4Re](#), [ICONIC Project](#), and [STORCITO Project](#)) and discussions on co-design, digitalisation, climate resilience, and resource management. The workshop underscored how cross-sector collaboration transforms linear value chains into regenerative systems, accelerating Europe's circular future. ♻️

[▶ Watch the full replay](#)



## The LIAISE COST ACTION EU community is back and stronger than ever!

The first post-summer WG1 meeting on industrial symbiosis took place in Berlin on September 3rd, 2025, uniting researchers and partners.

### 🌱 Highlights:

- **SUM4Re** : Digital material banks for smarter construction reuse ([Dr. Dipl.- Eng. Pablo J. Arauzo](#))
- **RISERS Project** : Standardizing industrial symbiosis ([Christian Grunewald](#))

The event reinforced community commitment to a circular economy. A special thanks to [OLAR Solutions](#) for representing us at the LIAISE WG1 meeting.

[📄 Discover the full recap here.](#)





## Advancing sustainable construction at IWAGPR 2025!

Our partners from [Screening Eagle | Proceq](#) presented the SUM4Re project paper, "GPR performance for material characterization of existing end-of-life buildings," at the 13th International Workshop on Advanced Ground Penetrating Radar in Thessaloniki, Greece, hosted by the [Aristotle University of Thessaloniki \(AUTH\)](#).

This workshop was a crucial platform to share how GPR can enable smarter, sustainable decisions for reusing existing structures, reducing waste, and extending the built environment's life. Proud to contribute to this innovative, sustainable journey.

 [Read the full news on our website](#)



## SUM4Re featured in Faro de Vigo!

 The Spanish daily [Faro de Vigo](#) featured the [Universidade de Vigo](#)'s contribution to Arctic infrastructure survival in Svalbard. The article highlights how the SUM4Re project's digital tools and circular strategies are being tested in this extreme environment for climate resilience and material reuse. We are proud our work is gaining visibility, contributing to public discourse on sustainable building and climate change.

 Read the article (in Spanish): <https://lnkd.in/e/hgT7GhE>



## SUM4Re at the EGRWSE Conference in Vigo!

[Clara Garcia Moll](#) from [Universidade de Vigo](#) presented "The Role of Augmented Reality and Governance in Improving Labour Productivity for Building Inventories: Insights from the Binckhorst Area" at the EGRWSE Conference. The paper explored how Augmented Reality (AR) and governance enhance building inventory processes, supporting circular construction and material reuse.

 [Learn more about the conference](#)

## SOME NEWS FROM OUR PARTNERS



## News from our partner Screening Eagle

During August 2025, our partner [Screening Eagle | Proceq](#) visited the Spanish pilot site alongside [@CONSTRUCCIONES MOYUA SL](#), to collect crucial data using their advanced sensors : Ground Penetrating Radar (GPR) and Electrical Capacitance Tomography (ECT).

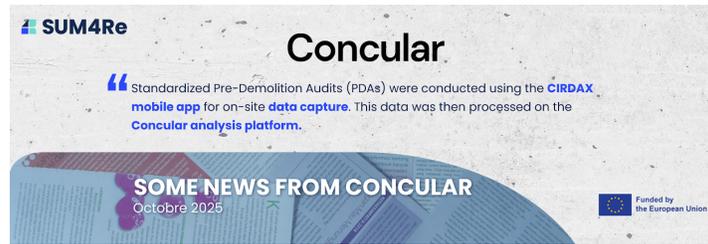
In the coming weeks and months, the team will focus on analyzing this data to enhance their post-processing software workflows.



## Some news from CONSTRUCCIONES MOYUA SL !

MOYUA coordinated visits and analyses of the Anoeta train station and the Jolastokieta factory. Partners scanned, analysed and studied both buildings to collect information on construction materials and elements, aiming to maximise reuse and recycling. MOYUA obtained geometrical data, material information on concrete and asphalt, mechanical behaviour of steel beams, scans of hidden elements, and a manual material inventory.

 [See more photos and the full news here](#)



### Some news from Concular ! 🚧

The SUM4Re project has made significant progress in validating its digital workflow for identifying and assessing materials in existing buildings. Standardized pre-demolition audits were carried out with the [Cirdax](#) app, and data were processed on the [Concular](#) analysis platform. The workflow quantified key indicators for each pilot.

 [Read the full news on our website.](#)



### Some news from GScan

[GScan](#) has completed preparations to begin data collection at the Binckhorst kindergarten in The Hague. Work included simulation studies, investigations of natural muon flux, and calibration of steel, concrete, and reinforced concrete for automated material detection. Six scanners will be used instead of two to cover larger areas and merge scans into a single dataset.

 [Read the full news and see additional photos.](#)

Thank you for reading the third edition of our newsletter, and do not hesitate to like, comment and share our posts and newsletters. 🍷



Concular



GSCAN



The SUM4Re Consortium

Universidade de Vigo | TECNALIA Research & Innovation | De Haagse Hogeschool / The Hague University of Applied Sciences | SINTEF | Block Materials | R2M Solution France | Estudios Rafer | VTT | Gemeente Den Haag | CONSTRUCCIONES MOYUA SL | AF Offshore Decom | Store Norske | Concular | OLAR Solutions | GScan | European Builders Confederation EBC | Screening Eagle | Proceq

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