



Creating materials banks  
from digital urban mining

# **D13.2 Report 1 on achieved DEC activities and performance**

VERSION 1.0

PUBLIC

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## **DOCUMENT APPROVAL**

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<b>Approved</b>	Pedro Arias Sánchez (UVIGO, Project coordinator)	28/22/2025

## **EXECUTIVE SUMMARY**

[SUM4Re](#) “Creating materials banks from digital urban mining” is a 42-month-long (June 2024–November 2027), European-funded project combining urban mining and automated on-site data acquisition technologies to create material banks from the built environment. It aims to support the transition towards circular construction practices and reduce construction and demolition waste sent to landfills. To achieve this objective, the project will develop a traceability system for building materials, a holistic methodological framework for assessing circular use of construction products, and smart digital solutions to identify construction entities and analyse their properties. The SUM4Re methodology is based on a systemic approach, focusing on identification, analysis, and contribution to circularity. The project will develop software tools and databases based on robust identification assisted by AI and other digital techniques, supported by blockchain solutions. It will improve the Building Information Modelling (BIM) standard to support current circular challenges and ensure interoperability with commercial databases.

[SUM4Re is demonstrated in three pilot sites](#) linked to singular construction projects in EU regions (North, Norway; Centre, The Netherlands; South, Spain) to validate the methodology and a strategy for skill development to upskill the workforce in the construction sector. These pilots will showcase practical implementation and replicability of the SUM4Re solutions, while providing the project with feedback on the effectiveness, efficiency and improvements in labour productivity as a result of the techniques and technologies selected.

[SUM4Re comprises a multidisciplinary team of 17 partners](#) (and one associated partner) leading this European project, aimed at reducing and recycling construction materials from the pre-demolition phase. UVIGO (University of Vigo) is the SUM4Re project coordinator.

**This public report is the first Report on achieved DEC activities and performance.** This deliverable provides a summary of the key activities carried out within the SUM4Re project over the past year of work. It covers the project’s dissemination and communication efforts, including social media management, newsletters, and other outreach initiatives. The document also reports on participation in conferences, workshops, and clustering events, highlighting visibility and engagement with stakeholders at both national and international levels. Furthermore, it presents the scientific output achieved to date, including Open Access publications, peer-reviewed conference papers, and other research contributions. Overall, the deliverable provides an overview of the progress made in ensuring effective knowledge transfer, stakeholder engagement, and the dissemination of results in support of the project’s objectives in circular and sustainable construction.

## **GLOSSARY**

### **Terms, Abbreviations, and Acronyms**

AI	Artificial Intelligence
AB	Advisory Board
BIO4EEB	BIO insulation materials for Enhancing the Energy performance of Buildings
BLOCKM	Block Materials
CDEP	Communication Dissemination Exploitation Plan
CircularB	Implementation of Circular Economy in the Built Environment
CONC	CONCULAR GMBH
CTH	GEMEENTE DEN HAAG
D&C	Dissemination and Communication
DeremCo	De-and Remanufacturing for Circular Economy Investments in the Composite Industry
DISCOVER	Digital, autonomous, Intelligent and Synchronous system for Continuous identification, Optimization and Value Extraction of Resources from the end-of-use built environment
Drastic	Demonstrating Real and Affordable Sustainable Building Solutions with Top-level whole life cycle performance and Improved Circularity.
EAGLE	Screening Eagle
EC	European Commission
EU	Europe
GPR	Ground Penetrating Radar
HEUR	Horizon Europe
ICONIC	Innovative Communities On Neutral Islands for Climate
KPI	Key Performance Indicator
LIAISON EU	LIAISON: making transport infrastructure sustainable
MOYUA	CONSTRUCCIONES MOYUA SL
NORSKE	STORE NORSKE BOLIGER AS
OA	Open Access
Q&A	Questions and Answers
RAFER	Estudios Rafer
ReBoat	Turning Island Waste into Waves of Change
REGEN EU	Regeneration of neighbourhoods towards a low-carbon, inclusive and affordable built environment

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Reincarnate	Innovative solutions for a greener construction industry
R2M	R2M Solution
STORCITO	Powering the future of rural Europe
TECN	FUNDACION TECNALIA RESEARCH & INNOVATION
THESEUS	Driving Circular Economy Innovation in Greece
THUAS	The Hague University of Applied Sciences
UVIGO	University of Vigo
VTT	TEKNOLOGIAN TUTKIMUSKESKUS VTT OY
Wood2Wood	Transforming wood waste into valuable resource for a greener future
YouRban	Urban co-creative, sustainable and inclusive ecosystem, for the reprocessing of reinforced polymers on-the-truck

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## 1. T13.1 CDEP coordination and monitoring (M1-M18)

To ensure effective coordination of dissemination and communication activities, a tracking table has been established and is maintained throughout the project. This tracker provides a structured overview of ongoing work, facilitates monitoring of KPIs, and ensures that all partners contribute to the collective effort.

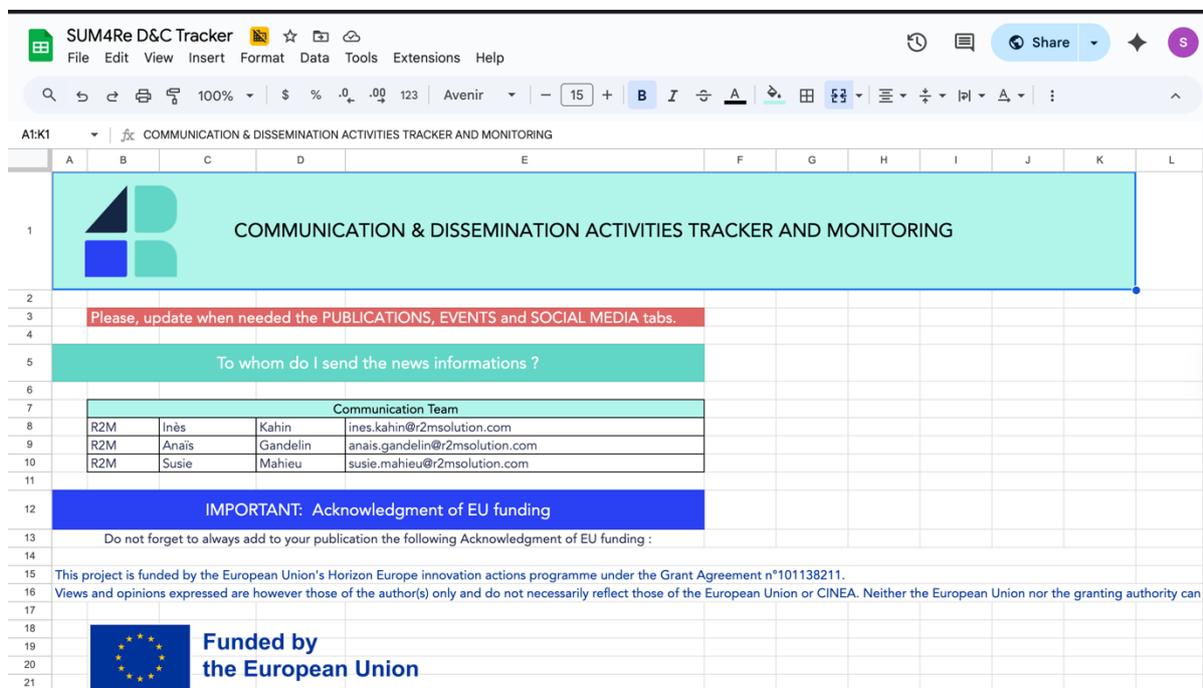


Figure 1: Screenshot of the SUM4Re D&C Tracker - General Guidelines Tab

The tracker opens with the general communication and dissemination guidelines. This section provides partners with a contact list of R2M staff responsible for communication and dissemination activities within the project. Partners are invited to share relevant information with the designated contacts, after which R2M updates the tracker and plans the corresponding communication actions. For SUM4Re, these actions include posts on the project website and dissemination through social media platforms such as LinkedIn and X. All partners have access to the tracker and may edit it, but R2M maintains primary responsibility for monitoring and ensuring its accuracy. In addition, the landing page of the tracker contains the required funding acknowledgments and EU emblem to be used consistently across all communication and dissemination activities.

1	Post date	From	Type	Topic	Partners	Status
2	17-Sep-2025	SUM4Re	LinkedIn X Website	Towards more circularity in construction (workshop)	R2M	Published
3	12-Sep-2025	SUM4Re	LinkedIn X Website	Some News from Gscan	GSCAN	Published
4	8-Aug-2025	SUM4Re	LinkedIn X	Some News from EAGLE	EAGLE	Published
5	1-Aug-2025	SUM4Re	LinkedIn X	Some News from EBC	EBC	Published
6	25-Jul-2025	SUM4Re	All	Advancing sustainable construction at IWAGPR 2025!	EAGLE	Published
7	15-Jul-2025	SUM4Re	LinkedIn X Website	SUM4Re featured in Faro de Vigo	UVIGO	Published
8	11-Jul-2025	SUM4Re	LinkedIn X Website	SUM4Re presented at EGRWSE	UVIGO	Published
9	4-Jul-2025	SUM4Re	LinkedIn X Website	Some news from UVIGO	UVIGO	Published
10	27-Jun-2025	SUM4Re	LinkedIn Newsletter	Newsletter #2	ALL	Published
11	24-Jun-2025	SUM4Re	LinkedIn X	Promoting RAFER's questionnaires	RAFER	Published
12	23-Jun-2025	SUM4Re	All	Fieldwork in Svalbard: UVIGO and Eagle collecting data	UVIGO EAGLE	Published
13	19-Jun-2025	SUM4Re	All	THUAS at the Research Day on Digitalisation in the Buil	THUAS	Published
14	11-Jun-2025	SUM4Re	LinkedIn X Website	GA#3 in Oslo DAY2	ALL	Published
15	10-Jun-2025	SUM4Re	LinkedIn X Website	GA#3 in Oslo DAY1	ALL	Published
16	10-Jun-2025	SUM4Re	LinkedIn X	Training session : it's today !	ALL RAFER	Published
17	5-Jun-2025	SUM4Re	All	Divulagation activity at Lalin	ALL	Published
18	5-Jun-2025	NORSKE	LinkedIn	Repost: Data collection for the Nordic Pilot	NORSKE	Published

Figure 2: Screenshot of the SUM4Re D&C Tracker - SOCIAL MEDIA TRACKER tab

A group of tabs tracks the social media activities: the “Publication schedule” and the “SOCIAL MEDIA TRACKER” tabs.

- The “Publication Schedule” tab (Figure 6) was designed to ensure balanced contributions from all partners to the project’s social media activities. Through this tool, R2M can solicit input from one partner every two weeks, requesting updates on their progress within the project. This approach guarantees that each partner actively contributes to the communication effort while also ensuring that the audience receives a diverse range of updates from the different demonstration sites, rather than a focus on a single location.
- The “Social Media Tracker” tab is used to record all news items and posts produced within the project. The table is structured into columns indicating the date of publication, the platform used, a short title summarising the content, and direct links to the published posts.

The “EVENTS”, “List of relevant events”, and “PUBLICATIONS” tabs serve to monitor and record all dissemination activities within the project. These tabs provide an overview of past and planned activities, while also supporting the planning and execution of communication actions.

Mo nth	Date	Where	Title	Lead Par
M21	10 February 2026	Paris, France	EnerJ	R2M
M19	9 December 2025	Brussels, Belgium	Clustering webinar with BIO4EEB and DISCOVER	EBC
M18	13-14 November	Paris, France	21st European Conference on Management, Leadership and Governance	SINTEF
M18	10 - 12 November	Athens, Greece	MedGu conference	UVIGO
M18	4 November 2025	Online	Stakeholder roundtable: Green transition and circular economy.	EBC
M17	27 October 2025	Buenos Aires, Argentina	ISWA World Conference 2025	
M17	16 October 2025	Vigo, Spain	CINTECX Open Day	UVIGO
M17	10 October 2025	Milano, Italy	Sustainable Places 2025	R2M
M16	3 September 2025	Berlin, Germany	LIAISE COST ACTION – WG1 meeting	OLAR
M14	2 July 2025	Thessaloniki, Greece	International Workshop on Advanced Ground Penetrating Radar conference	EAGLE
M13	11 June 2025	Vigo, Spain	EGRWSE 2025	UVIGO
M13	10 June 2025	Oslo, Norway + Online	Training Session	SUM4Re
M13	8 - 12 June 2025	Rome, Italy	NIR Rome congress	TECNALI
M12	21 May 2025	Pontevedra	SUM4Re at Pontenciencia 2025	UVIGO
M11	9 April 2025	Groningen, The Netherlands	Presentation at 4TU-14UAS Research Day "Digitalisation of the Built Environment" on 9 /	THUAS
M10	28 March 2025	Switzerland	FCCREFDI meeting	FRC

**Figure 3: Screenshot of the SUM4Re D&C Tracker - EVENTS tab**

- The EVENTS tab monitors all the attended events from the beginning of the project to M21. While some events haven't started yet, partners can still fill out this tracker to inform the communication team about upcoming events they are going to attend. This allows the communication team to send an email for complementary information and pictures once the event has passed, and later, write a publication about it. Listed are the dates and names of the partners related to said event. While it isn't shown in the screenshot, R2M keeps track of the clustering events with a column that highlights this particularity. As shown, SUM4Re has already been a part of 18 events out of 20 at M18. The project will participate in two clustering events, in December 2025 and February 2026, adding to the total. We can confidently assume that the events KPI will be achieved, and surpassed!

Date	Where	Title	Link	Going?	Interested Partner	Clustering Event?
16-19 september 2025	Prague	Central Europe towards Sustainable Building 2025 (CESB)	<a href="#">Link</a>	<input type="checkbox"/>		No
8 - 10 October 2025	Milan	Sustainable Places 2025	<a href="#">Link</a>	<input checked="" type="checkbox"/>		Yes
23-24 october 2025	Brussels	European Sustainable Industry Summit 2025	<a href="#">Link</a>	<input type="checkbox"/>		No
3 - 7 November 2025	Poland (?)	Circular Week	<a href="#">Link</a>	<input type="checkbox"/>		
9 December 2025	Brussels	EBC premises.		<input checked="" type="checkbox"/>	EBC	Yes
13-15 January 2026	Warsaw, Poland	World of BUILD Expo 2026	<a href="#">Link</a>	<input type="checkbox"/>		
27 & 28 January 2026	Brussels	Futurebuild	<a href="#">Link</a>	<input type="checkbox"/>		
10 February 2026	Paris	EnerJ Meeting	<a href="#">Link</a>	<input checked="" type="checkbox"/>	R2M	Yes
XXX February 2026	Germany	Successful R&I in Europe 2026	<a href="#">Link</a>	<input type="checkbox"/>		
24 - 26 March 2026	Ljubljana, Slovenia	The Better-Cities Event 2026	<a href="#">Link</a>	<input type="checkbox"/>		No
22 - 23 April 2026	Hamburg	Construction Summit	<a href="#">Link</a>	<input type="checkbox"/>		No
1 May 2026	Italy	8th Symposium on Circular Economy & Urban Mining	<a href="#">Link</a>	<input type="checkbox"/>		
9-13 June 2026	Belgium	Festival of the New European Bauhaus 2026: Life. Space	<a href="#">Link</a>	<input type="checkbox"/>		
28 Sept2026 - 01 Octob	Paris	BATIMAT	<a href="#">Link</a>	<input type="checkbox"/>		
Last week of September	Europe	European Researchers' Night 2026		<input type="checkbox"/>		
09 - 11 November 2026	United Kingdom	ISWA World Congress	<a href="#">Link</a>	<input type="checkbox"/>		

**Figure 4: Screenshot of the SUM4Re D&C Tracker - UPCOMING EVENTS tab**

- The UPCOMING EVENTS page is an auxiliary feature designed primarily to inspire partners in identifying new events to attend, which may be advantageous to SUM4Re.

After conducting an extensive study on the EC's websites, R2M selects the most interesting events to showcase SUM4Re under the HEUR umbrella, with the overall goal to disseminate our results but also to network with related projects for future collaboration purposes. This study is then presented to project partners as a suggestion of interesting events to attend.

Type	Date	Conference name	Title	Published on SUM4Re social media ?
Conference publication	2025 June	EGRWSE 2025 conference	Conference or journal paper as well as PhD dissertation	<input type="checkbox"/>
Conference publication	2025 June	13th International Workshop on Advanced Ground Pen	"The Role of Augmented Reality and Governance in Im	<input checked="" type="checkbox"/>
Conference publication	2025 May	Groningen, The Netherlands Presentation at 4TU-14UA:	GPR performance for material characterization	<input type="checkbox"/>
Conference publication	2025 May		"Research on the interoperability of circular constructic	<input checked="" type="checkbox"/>
OA publication	2025 May		HoloLens 2 performance analysis for indoor/outdoor 3	<input checked="" type="checkbox"/>
OA publication	2024 October		Toward a collaborative circular ecosystem within the built environment	<input checked="" type="checkbox"/>
OA publication	2024 September		A systematic literature review of low-cost 3D mapping solutions	<input checked="" type="checkbox"/>
OA publication	2024 September		Scanning indoor environments with Microsoft HoloLens 2 for interactive generation of floor plans	<input checked="" type="checkbox"/>
OA publication	2024 September		Mixed reality head mounted displays for enhanced indoor point cloud segmentation with virtual seeds	<input checked="" type="checkbox"/>

**Figure 5: Screenshot of the SUM4Re D&C Tracker - PUBLICATIONS tab**

- The PUBLICATIONS tab is used to monitor all scientific publications, both those already published and those planned for release. Partners share details of their publications with R2M, including titles and author information. R2M then updates the tracker accordingly and ensures that the publications are disseminated through the SUM4Re communication channels. The tab documents all scientific outputs, including Open Access publications, peer-reviewed conference papers, and other contributions, to monitor our related KPIs thoroughly.

Partners are regularly engaged through email reminders to provide updates and contributions, ensuring that information remains current and accurate. To avoid overloading partners' inboxes, each consortium member designated a single spokesperson responsible for contributing to the project's communication activities. R2M contacts only this designated person, ensuring streamlined communication and efficient collection of updates. This process reflects the collaborative nature of dissemination and communication, which requires active involvement from all members of the consortium.

## 2. T13.2 Communication & Dissemination activities

### 2.1. Visual Identity

Soraya Picouto, a subcontractor, created the visual Identity of the SUM4Re project. Together with UVIGO and R2M joint efforts, Ms. Picouto designed a logo that reflects the core objectives of the SUM4Re project. Subsequently, an infographic was produced to be adapted into posters, a roll-up, and an A5 leaflet in order to address the project's communication requirements. Additionally, templates were created for deliverables reports and presentations.

The visual identity and infographics are available on the website (under the “Resources -> communication media” tab) for download by partners and multipliers and can be printed for communication purposes. By clicking each tab, the user can choose to download the poster, the roll-up, or the infographics to implement in a newly designed communication material.

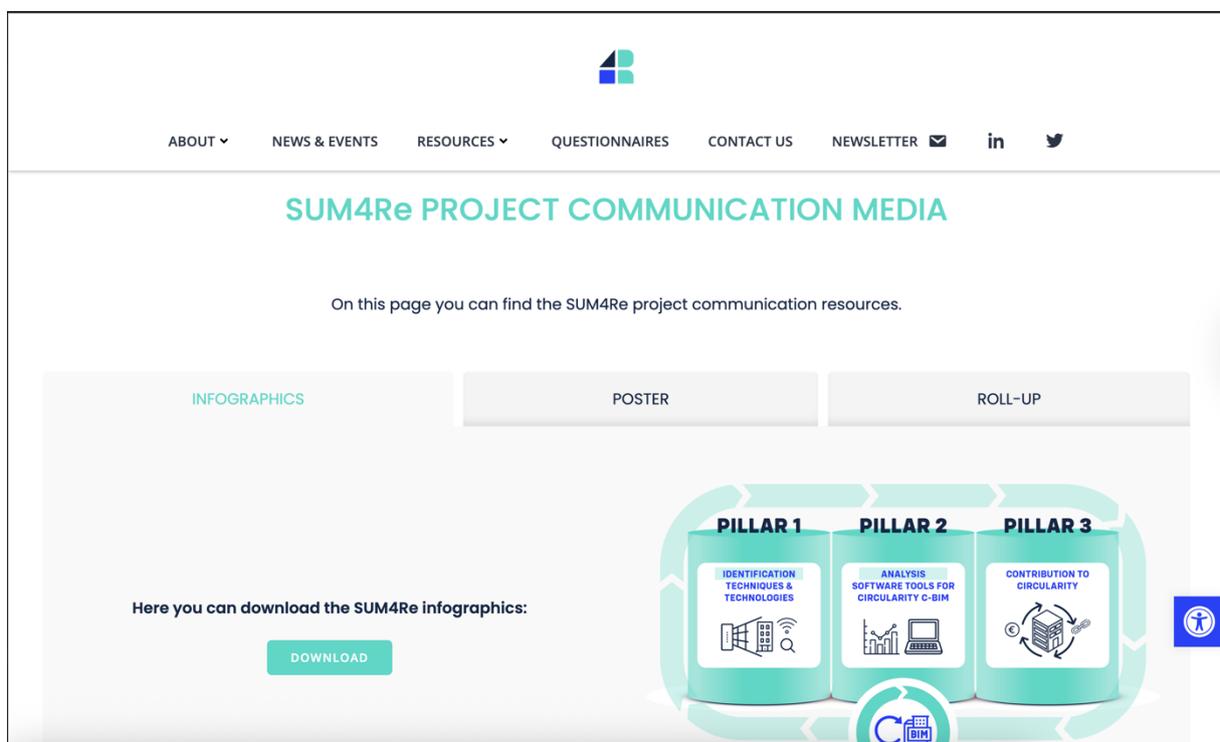


Figure 6: Communication media page of the SUM4Re website.

### 2.2. Website and social media management

#### 2.2.1. Website

The SUM4Re website ([www.sum4re.eu](http://www.sum4re.eu)), hosted and managed by R2M, has been launched in Month 3. It has been updated with information about the project, news, and various resources (press release, scientific articles, brand identity). The project's website has 6 menu items: project information (the project, the consortium, the pilot sites, and Horizon Europe), project news and events, questionnaires, downloadable resources (scientific reporting, public deliverables, communication media, the brand identity, the press releases), and contact information, newsletter subscription, and social media. The website has been secured through

the implementation of a reCAPTCHA key, ensuring that only genuine users are able to contact the project's communication team.

The website is maintaining a regular activity, with 31 news items published from M3 to M15. The news items are regularly mirrored to be shown on all SUM4Re's social media platforms. Additionally, the public deliverables are available for consultation under a dedicated tab.

**Table 1: Number of visitors on the SUM4Re website in a year.**

	<b>KPI (Visitors/year)</b>	M3 (August 2024) – M15 (August 2025)	M15 (August 2025) – M18 (November 2025)
<b>Number of Visitors</b>	<b>2 000</b>	1 573	746
<b>Total (M3 – M15)</b>		<b>2319</b>	

The table above records the number of visitors to the SUM4Re website from June 2024 (project start) to August 2025. The count restarts each year, as the KPIs refer to the number of annual visitors. During the first year, the website registered 1 100 visitors (from June 2024 to June 2025), representing approximately half of the target KPI. However, since the website was officially launched in August 2024, an additional total was calculated to reflect the number of visits within a full year. This adjusted figure (1 573 visitors from August 2024 to August 2025) demonstrates significant progress towards the project's objective, and will become the baseline of our tracking (from August to August). In three months, from M15 to M18, SUM4Re's website has already counted 746 active users. The numbers are higher than they were at this period; we counted only 200 active users from August 2024 to December 2024. Based on this trend, it is reasonable to expect that the KPI will be achieved within the current reporting year, not only because our project has a wider reach and precise results to disseminate, but also because soon, it is expected to serve as a training tool for stakeholders and will implement modules. With this goal in mind, we can expect visitors to navigate it several times.

### 2.2.2. LinkedIn and X

**Table 2: Number of subscribers on the SUM4Re social media.**

<b>Social media</b>	<b>KPI (through the project)</b>	<b>Number of subscribers by M18</b>
<b>LinkedIn</b>	<b>400</b>	352
<b>X</b>	<b>200</b>	12

The social media channels have been created for the first kick-off meeting and remain active as of today, with a minimum frequency of one post every two weeks.

As shown in the table above, the LinkedIn page has proven successful, reaching 352 followers within the first year and a half of the project. The social media campaign is supported through regular internal communication, whereby partners provide updates on their progress within

the SUM4Re project. These updates are subsequently adapted for a wider audience and complemented with visual material. All partners are actively involved in this process, with R2M issuing regular reminders to ensure continuous contributions. To do so, R2M has created a calendar of publications with designated time slots for each partner.

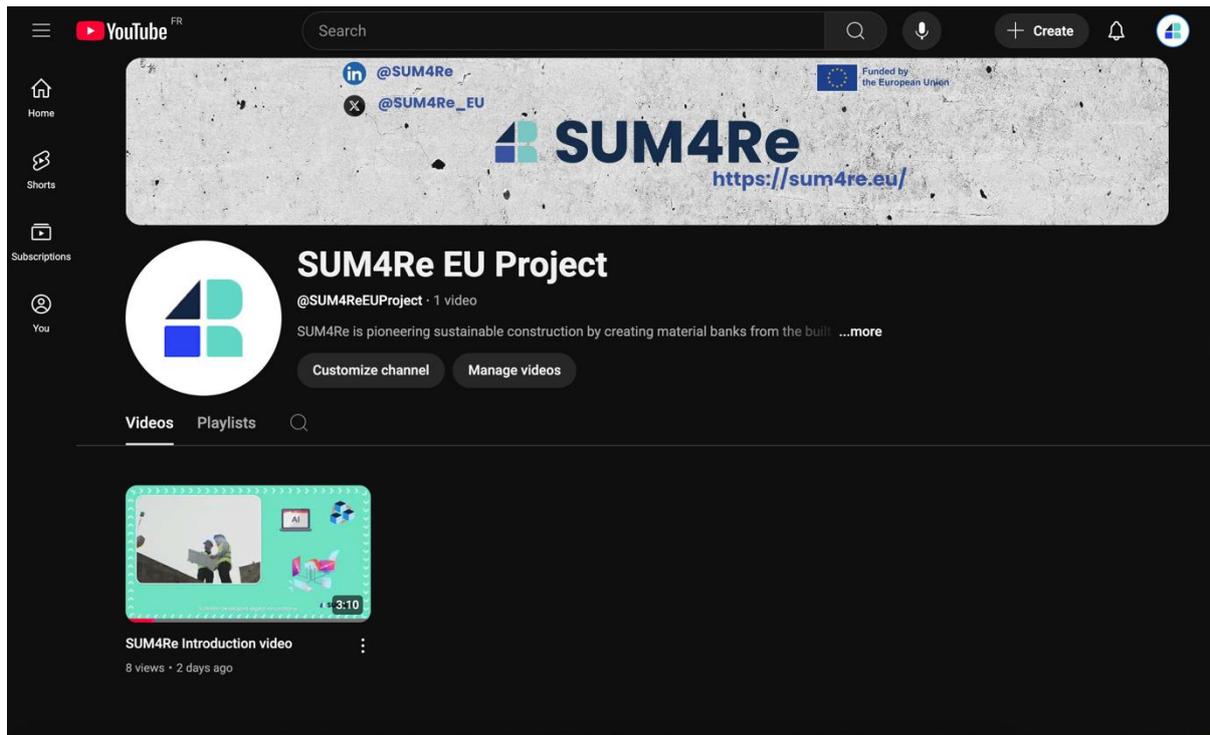
N°	Partner	Date of the reminder email	Partner's email deadline	Date of publication	DEC responsible	Status	Contacts
1	BlockM	3-Mar-2025	17-Mar-2025	21-Mar-2025	Anais	Published	<simon@blockmaterials.com>
2	THUAS	17-Mar-2025	31-Mar-2025	4-Apr-2025	Susie	Published	Helen van Broekhuijsen - h.l.vanbroekhuijsen@hhs.nl Rizal Sebastian - R.Sebastian@hhs.nl
3	AF DECOM AS	31-Mar-2025	14-Apr-2025	18-Apr-2025	Anais	Email Not Received	Anders Lundli - anders.lundli@afgruppen.no
4	VTT	14-Apr-2025	28-Apr-2025	2-May-2025	Susie	Published	Hradil Petr - Petr.Hradil@vtt.fi
	BlockM	28-Apr-2025	12-May-2025	16-May-2025	Anais	Published	Tom Lacroix - tom@blockmaterials.com
5	RAFER	12-May-2025	26-May-2025	30-May-2025	Susie	Skipped	Maria Sanchez - maria.sanchez@estudiosrafer.es Carla Rois Quifones - carlaroisrafer@gmail.com

**Figure 7: Screenshot of the ‘Publication schedule’ tab of the D&C Tracker.**

Every two weeks, a consortium member is contacted via email and given a deadline to provide feedback to R2M. Based on these contributions, R2M prepares a post to be published each Friday at approximately 4 p.m. This timing has been strategically selected to maximize visibility, as it coincides with the start of the weekend, when users are more likely to browse social media. All those precautions are key to the success of this social media channel.

Despite regular posting, the project’s X account has remained at 12 followers, with no significant progress to report. Limited growth is anticipated, as frequent changes to X’s algorithm tend to reduce the visibility of content from new accounts, even when hashtags are employed. Furthermore, the platform’s ownership changes in 2022 introduced a system that prioritizes accounts with a blue checkmark, a paid subscription of 8€ per month, which further disadvantages non-subscribed accounts in terms of outreach and visibility. Around that time, many users who were malcontent with the platform’s changes deleted their accounts.

### 2.2.3. YouTube channel



**Figure 8: SUM4Re's YouTube channel**

A YouTube channel was established by M16 to host video content related to the SUM4Re project. This initiative was both requested by consortium members and foreseen in the Grant Agreement, which requires a dedicated platform for audiovisual dissemination, although no specific KPI regarding subscriber numbers is defined. At present, the only published video is the introductory project video, which will be promoted through the project's social media channels and website in the coming period.

## 2.3. Dissemination Materials

### 2.3.1. Press release

One press release has been published in July 2024, and has been widely spread by consortium members to support the beginning of SUM4Re. It announced the launch of the SUM4Re project and highlighted the project's aim to promote circular construction through early-stage material reduction, recycling, and recovery of by-products prior to demolition or dismantling. The press release described SUM4Re's integrated approach, which combines urban mining, automated in situ data acquisition, and identification of reusable building components to establish material banks. Additionally, it outlined the implementation of three pilot demonstration projects and the development of strategies to enhance workforce qualifications and facilitate the adoption of project solutions. The project's official kick-off meeting in Vigo was also reported, where consortium members discussed initial actions and objectives for the three-and-a-half-year project.

### 2.3.2. Bi-annual newsletters

To date, two newsletters have been published: the first in November 2024 and the second in June 2025, and one is set to launch by M18. Each newsletter provides an overview of the

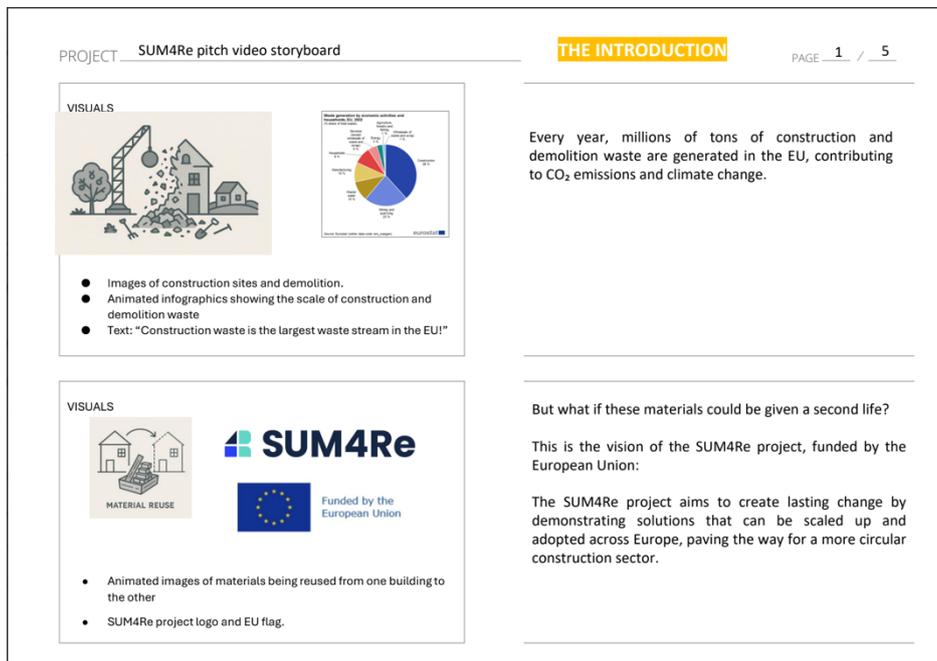
activities undertaken within the framework of the SUM4Re project. Beyond reporting progress, the newsletters function as key dissemination tools, ensuring that stakeholders and the wider public remain informed and engaged with the project’s objectives and outcomes.

It was decided to publish the newsletters via LinkedIn, which offers a built-in interface for drafting and distribution. While the platform provides limited options for customization, it ensures broader visibility: once released, each newsletter is displayed in followers’ feeds and simultaneously sent via email to subscribers. This dual dissemination approach enhances outreach and guarantees that subscribers remain updated on the latest developments. Furthermore, hosting the newsletters on LinkedIn centralizes project communications and facilitates easy access, while also enabling new followers to be automatically invited to subscribe.

By M18, the SUM4Re newsletter had reached 162 subscribers, representing approximately 30% of the KPI target of 500. While this number is slightly below the linear trajectory when compared to the project duration, it is consistent with the early phase of dissemination. As the project progresses and more tangible results, pilot activities, and training opportunities are communicated, subscription growth is expected to accelerate. On this basis, it is anticipated that the KPI will be achieved within the project timeframe.

**2.3.3. Project video**

In accordance with the Grant Agreement, a project video is planned for the last months of the project by M42. However, work had already started on this task by February 2025, and a final version of the storyboard was approved in June 2025.



**Figure 9: Screenshot of the SUM4Re pitch video storyboard.**

The video highlights the challenge of construction and demolition waste in the EU and presents SUM4Re as a solution for a more circular construction sector. It introduces SUM4Re’s vision to give materials a second life through ‘material banks’ supported by urban mining, AI, digital tools, and blockchain. The video presents the three pilot sites in which our

solution will be tested and concludes with a call to action to join the initiative and follow the project on social media.

The video has a maximum duration of three minutes, ensuring that it captures viewers' attention while effectively presenting a concise overview of the project to a broad audience. To carry out this task, R2M engaged the services of Babylonia, a consultant specializing in video editing. The development of the video was finalized in M16 and was released in September 2025. It is now publicly available on YouTube:

<https://youtu.be/i0ei4Jla-uw>

## 2.4. On-site dissemination: Events and papers

### 2.4.1. Events

SUM4Re partners are expected to participate in a minimum of 20 events, including roundtable discussions with the Community of Interest and the Advisory Board. Project results will be made available as open datasets, while dissemination materials will be presented at conferences and trade fairs. In addition, liaison activities are planned with the Sustainable Places Conference and other major events listed in Section 2.2. As of today, half of the KPI target has been achieved, with participation in 11 events.

**Table 3: List of attended events from M4 to M14.**

	Date	Where	Name of Event	Partner/s involved
<b>M18</b>	13 – 14 Nov. 2025	Paris, France	21st European Conference on Management, Leadership and Governance	SINTEF
	10 – 12 Nov. 2025	Athens, Greece	MedGu Conference	UVIGO
	4 Nov. 2025	Online	Stakeholder roundtable: Green transition and circular economy.	EBC
<b>M17</b>	16 Oct. 2025	Vigo, Spain	CINTECX Open Day	UVIGO
	10 Oct. 2025	Milan, Italy	Sustainable Places 2025	R2M
<b>M16</b>	3 Sept. 2025	Berlin, Germany	CA22110 LIAISE COST ACTION – WG1 meeting	OLAR
<b>M14</b>	2 July 2025	Thessaloniki, Greece	International Workshop on Advanced Ground Penetrating Radar conference	EAGLE
<b>M13</b>	11 June 2025	Vigo, Spain	EGRWSE 2025	UVIGO
	10 June 2025	Oslo, Norway / Online	Training Session	R2M, RAFTER, THUAS, UVIGO
	8 – 12 June 2025	Rome, Italy	NIR Rome congress	TECN
<b>M12</b>	21 May 2025	Pontevedra	SUM4Re at Pontenciencia 2025	UVIGO

<b>M11</b>	9 April 2025	Groningen, the Netherlands	Presentation at 4TU-14UAS Research Day "Digitalisation of the Built Environment"	THUAS
<b>M10</b>	28 March 2025	Switzerland	ECCREDI meeting	EBC
<b>M7</b>	5 Dec. 2024	The Hague / Online	"Circular construction unabled by photonic technologies" Workshop	RAFER, THUAS, R2M, UVIGO
<b>M6</b>	15 Nov. 2024	The Hague, Netherlands	METREX Symposium	VTT, THUAS
<b>M4</b>	24 Sept. 2024	Luxembourg	Sustainable Places 2024	R2M
	17 Sept. 2024	Cape Town, South Africa	ISWA Conference 2024	VTT, THUAS
	10 Sept. 2024	Vienna	EuroCarto 2024	UVIGO

Between M4 and M18, SUM4Re partners have actively participated in 18 events across Europe and beyond, including conferences, workshops, training sessions, symposia, and international meetings. These events demonstrate both the diversity and geographical spread of the project's dissemination efforts, ranging from local science fairs (e.g., Pontenciencia 2025 in Spain) to major international conferences (e.g., ISWA Conference in Cape Town and EuroCarto 2024 in Vienna). The participation of different partners ensures broad representation of the consortium's expertise, while the inclusion of both in-person and online events has maximized outreach. With 18 events already contributing to the KPI target of 20 by M18, the project will achieve this dissemination objective fully.

#### 2.4.2. Clustering events

SUM4Re is expected to participate in a total of 3 clustering events, with a "liaison with Sustainable Places Conferences, among other significant events"<sup>1</sup>. This objective is already completed by M16.

At Sustainable Places 2024, (M4) SUM4Re took part in the workshop '*Data Management for Enhanced Built Environment Circularity*', organised jointly with sister projects REGEN EU, Drastic, LIAISON EU, CircularB, and Reincarnate. The session attracted over 500 participants and focused on best practices in digital solutions for circularity in the construction sector. Discussions addressed barriers to implementation, state-of-the-art digital tools, and future roadmaps for sustainable building solutions. Key topics included the feasibility of reusing construction components, the importance of whole life-cycle performance, and the role of digital traceability. SUM4Re presented its contribution to this field, benefitting from the visibility of a high-profile audience and reinforcing its positioning within the European research and innovation community. This participation not only facilitated knowledge exchange and

<sup>1</sup> Grant Agreement - GAP-101129961, *Work package WP13 – Communication & Dissemination & Exploitation Plan 1 (CDEP 1)*, Description, Page 80

synergies with sister projects but also directly contributed to the project's dissemination and networking KPIs.

On 3 September 2025, the CA22110 LIAISE COST Action – WG1 meeting took place in Berlin (Germany), bringing together experts to exchange experiences and discuss ongoing work on industrial symbiosis, including ICT tools, databases, and standardisation efforts. This clustering activity involved the CA22110 LIAISE COST Action network, the SUM4Re and RISERS projects, standardisation bodies such as DIN, academic partners including HTW Berlin and the University of Hohenheim, as well as industry and research stakeholders engaged in Industrial Symbiosis.

At Sustainable Places 2025, (M17) SUM4Re participates in the workshop '*Re-valuing resources: Cross-sectoral circular solutions for a sustainable future*', held in October 2025 together with seven Horizon Europe projects (ReBoat, THESEUS, DeremCo, Wood2Wood, YouRban, ICONIC, and STORCITO). The session explored how circular economy solutions support Europe's decarbonisation and climate neutrality objectives, presenting real-world demonstrations across cities, islands, and industrial systems. Through short pitches, a moderated panel, and interactive Q&A, the projects showcased innovations in material reuse, urban circular ecosystems, digital traceability, community engagement, and resilience tools. SUM4Re contributed by presenting its systemic solutions for circular and climate-resilient regions, while the workshop as a whole provided valuable opportunities for knowledge exchange, collaboration, and clustering. This high-profile participation increased the project's visibility, strengthened its positioning among peer Horizon Europe initiatives, and contributed directly to the achievement of dissemination and networking KPIs.

On 9th December 2025 (M19), SUM4Re will participate in the workshop '*Towards More Circularity in Construction: A Collaborative Approach from EU-Funded Projects*', to be held in Brussels alongside sister projects BIO4EEB and DISCOVER. This collaborative event is designed around the circular lifecycle of sustainable materials, beginning with material innovation, moving to data acquisition and urban mining, and concluding with advanced reuse strategies supported by digital twin applications. SUM4Re will present its technologies for automated data collection and the creation of material banks, ensuring that building materials are accurately mapped and prepared for reuse. Participation in this event is expected to enhance SUM4Re's visibility, foster collaboration with sister projects, and further contribute to the achievement of the project's dissemination and networking KPIs.

The KPI of three clustering events is achieved by M16, well ahead of the project's conclusion. SUM4Re has already participated in three clustering events, with two more arriving in the upcoming months (one in December 2025 in Brussels (*'Towards More Circularity in Construction'*) and the other in February 2026 (EnerJ Meeting, Paris)). This demonstrates that the project is progressing in line with its dissemination commitments and is positioned to exceed the target.

#### 2.4.3. Released papers

As of M19, SUM4Re partners have produced 5 Open Access journal publications (out of a KPI of 12) and 5 peer-reviewed conference papers (out of a KPI of 10). This corresponds to 42% of the Open Access KPI and 30% of the conference paper KPI achieved. Given that

publication activity typically intensifies in the latter stages of a project, once technological developments and pilot results are consolidated, this progress demonstrates that SUM4Re is on track to meet its scientific dissemination objectives.

#### **2.4.3.1. Conference papers**

##### **Paper / Contribution 1**

Event: EGRWSE 2025 Conference, Vigo, Spain – June 2025

Title: “The Role of Augmented Reality and Governance in Improving Labour Productivity for Building Inventories: Insights from the Binckhorst Area”

Authors / Partners: UVIGO, THUAS, BLOCKM

Summary: This paper explores how augmented reality and governance mechanisms can improve the efficiency of building inventory processes. Using the Binckhorst Area as a case study, the research demonstrates the potential of digital tools to streamline data collection, enhance transparency, and support more effective decision-making in the context of circular construction.

Expected publication time: December 2025.

##### **Paper / Contribution 2**

Event: 13th International Workshop on Advanced Ground Penetrating Radar (IWAGPR2025), Thessaloniki, Greece – June 2025

Title: “GPR Performance for Material Characterization”

Authors / Partners: Dr. Ourania Patsia, Dr. Alexandre Novo, Mr. Samuel Lehner and Dr. Miguel Clavijo. (EAGLE)

Summary: This contribution investigates the performance of Ground Penetrating Radar (GPR) technology for material characterization in the built environment. The findings highlight GPR’s role in identifying subsurface materials, providing valuable input for material banks and supporting reuse strategies in line with SUM4Re’s objectives.

(PENDING, not published yet)

##### **Paper / Contribution 3**

Event: 4TU–14UAS Research Day “Digitalisation of the Built Environment”, Groningen, The Netherlands – April 2025

Title: “Research on the Interoperability of Circular Construction Material Data”

Authors / Partners: Daniëlle Strydom and Rizal Sebastian (THUAS)

Summary: This presentation examined the interoperability challenges of material data for circular construction. It emphasized the need for harmonized standards and digital frameworks to enable effective exchange of information between stakeholders, thereby improving material traceability and facilitating large-scale circular practices.

Link: <https://www.thu.as.com/media/proceedings-4th-dbe-research-day> (page 100)

#### **Paper / Contribution 4: Proceedings**

Event: 21st European Conference on Management, Leadership and Governance – November 2025

Title: “A Study on Assessing Circular Economic Practices in the Construction Sector”

Authors / Partners: Mona Noreng and Anandasivakumar Ekambaram (SINTEF)

Summary: The paper examines how Augmented Reality (AR) and governance frameworks can improve efficiency and accuracy in building inventory processes, which are essential steps for urban mining and material reuse.

(PENDING, not published yet)

#### **Paper / Contribution 5**

Event: MedGu Conference – November 2025

Title: “Automated Material Segmentation in 3D-RGB Point Clouds Captured via Mixed Reality for Sustainable Demolition Practices.”

Authors / Partners: Clara Garcia Moll (UVIGO)

Summary: This study introduces a low-cost method to automatically identify construction materials in 3D before demolition using the Microsoft HoloLens 2 instead of expensive LiDAR systems. Since the device’s depth sensor has no color, the workflow adds color from aligned RGB images and uses a region-growing algorithm to segment materials.

(PENDING, not published yet)

#### **2.4.3.2. Peer-reviewed papers**

##### **Paper 1**

Date: May 2025

Title: “HoloLens 2 Performance Analysis for Indoor/Outdoor 3D Mapping”

Authors / Partners: Juan Carlos Navares-Vázquez, Zhouyan Qiu, Pedro Arias, and Jesús Balado (UVIGO)

Summary: This paper evaluates the capabilities of Microsoft HoloLens 2 in performing 3D mapping tasks under both indoor and outdoor conditions. The findings demonstrate the potential and limitations of mixed reality devices for building surveys, providing insights for their application in digital material inventories and supporting circular construction practices.

Link: <https://doi.org/10.1016/j.jobe.2025.112826>

##### **Paper 2**

Date: October 2024

Title: “Toward a Collaborative Circular Ecosystem within the Built Environment”

Authors / Partners: Phuc Huynh Evertsen and Vegard Knotten. (SINTEF)

Summary: This publication investigates strategies for creating a collaborative ecosystem that fosters circularity in the construction sector. It emphasizes stakeholder engagement, governance frameworks, and digital enablers as key factors in transitioning towards sustainable and regenerative building practices.

Link: <https://doi.org/10.1016/j.spc.2024.10.019>

### **Paper 3**

Date: September 2024

Title: “A Systematic Literature Review of Low-Cost 3D Mapping Solutions”

Authors / Partners: Jesús Balado, Raissa Garozzo, Lukas Winiwarter and Sofia Tilon (UVIGO)

Summary: This review analyses state-of-the-art low-cost 3D mapping technologies and their applicability in the built environment. It identifies opportunities and gaps in the use of affordable mapping tools to support large-scale building inventories and material reuse.

Link: <https://doi.org/10.1016/j.inffus.2024.102656>

### **Paper 4**

Date: September 2024

Title: “Scanning Indoor Environments with Microsoft HoloLens 2 for Interactive Generation of Floor Plans”

Authors / Partners: Juan C. Navares-Vázquez, Silvia M. González-Collazo, Pedro Arias, and Jesús Balado (UVIGO)

Summary: This study demonstrates the use of HoloLens 2 for interactive scanning of indoor spaces to automatically generate floor plans. The research highlights efficiency gains for building documentation and inventory processes, with applications for circular economy data workflows.

Link: <https://doi.org/10.5194/ica-abs-7-115-2024>

### **Paper 5**

Date: September 2024

Title: “Mixed Reality Head-Mounted Displays for Enhanced Indoor Point Cloud Segmentation with Virtual Seeds”

Authors / Partners: Juan C. Navares-Vázquez, Pedro Arias, Lucía Díaz-Vilariño, Jesús Balado (UVIGO)

Summary: This paper presents a novel method for using mixed reality headsets to improve the segmentation of indoor point clouds. By applying virtual seeding techniques, the approach

enhances accuracy and efficiency in spatial data processing, supporting advanced digital tools for construction circularity.

Link: <https://doi.org/10.1016/j.rcns.2024.06.005>

#### 2.4.4. Multipliers

**Table 4: Multipliers involved in the SUM4Re project**

Date of Contact	Impact Multiplier	Contact of the multiplier (email, LinkedIn,...)	Scale	Partners involved
March 2025	<b>DG ENV, DG GROW, DG ENER</b>	Josefina Lindblom - Senior Policy Advisor at DG ENV <a href="mailto:Josefina.LINDBLOM@ec.europa.eu">Josefina.LINDBLOM@ec.europa.eu</a>	EU	THUAS
March 2025	<b>ECCREDI European Council for Construction R&amp;D&amp;I</b>		EU	EBC

To date, 2 out of 10 multipliers have been engaged within the SUM4Re project. Multipliers play a key role in extending the project's reach beyond the consortium by sharing results, tools, and best practices with wider professional and stakeholder networks. Their engagement supports the dissemination and exploitation strategy by amplifying project visibility and impact. While the current number reflects the early stage of outreach activities, it demonstrates progress toward the KPI, with additional collaborations expected as project results mature and communication materials are further developed.

## 2.5. Advisory Board

The Advisory Board (AB) of the SUM4Re project has been set up to support future exploitation and stakeholder engagement activities. 12 members have been recruited, with experts from industry, the academic and scientific sector, sectoral associations and public administrations. The AB members' composition respects gender balance. The composition of the Advisory Board can continue evolving during the remainder of the project.

Before contacting potential members, the role of the SUM4Re Advisory Board has been collaboratively defined by UVIGO and R2M, reviewed by all project partners. Also, all Advisory Board members have received a document written by UVIGO and supervised by the ethics mentor, defining the data protection and consent framework for SUM4Re's Advisory Board (AB) under GDPR (EU) 2016/679. The University of Vigo (UVIGO) acts as the data controller, ensuring compliance.

The first online Advisory Board meeting has been held in November 2025. Meetings will be held online twice a year to allow the members to follow the progress of the project to provide strategic guidance on the project's direction and impact. In addition, they might be asked to review and give feedback on key deliverables, help with the identification of risks or opportunities that could influence the project's success, advise on how to ensure the project's results remain relevant and usable beyond its funding period, disseminate/forward the project's communication material and outcomes in your network.

The website will soon feature a page dedicated to the Advisory Board, presenting each member.

### 3. Conclusion

Communication and dissemination activities within SUM4Re are progressing according to plan, supported by a structured approach and consistent partner engagement. Thanks to an orderly internal engagement, scientific updates from partners are monitored and integrated into dissemination activities via a D&C Tracker. This tool helps track down all activities related to the project, as well as update KPI achievements monthly.

Regarding the communication, the website and LinkedIn are advancing towards their targeted KPIs steadily and are expected to reach their goal around the second year of the project, whereas the X account has shown limited growth due to platform-related challenges. The publication of newsletters is on schedule, with regular issues released as planned. New content for the newsletters launches every six months, and its growth in followers is constant.

As for the dissemination activities, most objectives are on track; SUM4Re has been advertised through 11 events, for a total goal of 20, with one clustering event. However, two clustering events with a cluster of sister projects are planned in October and December, setting the target KPI of 3 for achievement halfway into the project. With two multipliers enrolled, 5 OA publications, and 3 peer-reviewed conference papers, SUM4Re remains on track to meet its scientific dissemination objectives.

In conclusion, the project demonstrates steady progress across communication and dissemination activities, with KPIs largely advancing according to plan. This ensures that SUM4Re maintains strong visibility and impact across its target audiences while laying the groundwork for achieving all dissemination and communication objectives by the end of the project.

#### 3.1. KPI SUMMARY

Table 5: KPI summary

KPI	Target	Achieved
<b>Communication KPIs and targets</b>		
SUM4Re <b>website</b> : public information centre ensuring that the objectives, methodologies, activities, and results are easily available. Wide scale dissemination. Promotion of EU dimensions and added value on landing page.		
N° of annual visitors	2500	1 573 Last year / 746 currently
SUM4Re's <b>newsletter</b> gathering news from the technical WPs, promoting the project's results, and announcing dissemination events. First issue by M7 with follow-ups every 6 months. Key publications relayed through SUM4Re partners' institutional newsletters.		
N° of newsletters	6	2
N° of subscribers	500	162
SUM4Re's <b>social media</b> : X for high level interactions with influencers (specialized		

journalists, policy makers, EC related bodies); LinkedIn, for technical contents to professionals; YouTube to promote the videos.		
LinkedIn followers	400	352
X (Twitter) followers	200	12
Short <b>promotional videos</b> : Short introductory video as a 1-min elevator pitch of SUM4Re.		
N° of videos	1	1
<b>Dissemination KPIs and targets</b>		
Dissemination of the project's results at <b>relevant scientific and policy events</b> .		
N° of events	20	18
Establishing contact with key dissemination stakeholders: <b>multipliers</b> enrolled & actively disseminating SUM4Re outcomes (through their own newsletter, social media, etc.)		
N° of multipliers enrolled	10	2
<b>Scientific publications.</b>		
N° of open access (OA) publications	12	5
N° of peer-reviewed conference papers	10	5
<b>Clustering activities</b> with sister projects and innovation clusters / ecosystems.		
N° of clustering workshop/conferences	3	3 (2 upcoming events)
Dissemination and <b>training webinars/workshops</b> , each gathering at least 50 attendees, targeting specific sectorial audience.		
N° of dissemination webinars organised	2	2
Delivery of public massive online courses ( <b>MOOCs</b> ): courses about the innovative data acquisition and processing technologies of SUM4Re, with a minimum of 50 attendees per country participating in the project (KPI6).		
N° of MOOCs	5	0
Organisation of a final event in Brussels: At least 100 attendees; round tables organised with representatives of at least 6 stakeholder groups.		
Final event	1	0

# SUM4Re

Creating materials banks  
from digital urban mining

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