openDBL

Improving Buildings is Improving EU

Communication, dissemination and stakeholder report (M24)

Disclaimer and acknowledgements

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Glossary of terms and acronyms used

Acronym/Term	Description
AECO	Architecture, Engineering, Construction, and Operations
BIM	Building Information Management
CDP	Communication and Dissemination Plan
DBL	Digital Building Logbook
DIGI	Digiotouch
EC	European Commission
EU	European Union
GA	Grant Agreement
KPI	Key Performance Indicators
KSP	Knowledge Sharing Plan
KSP	Knowledge Sharing Plan
NL	Newsletter
PR	Public Relations
SEO	Search Engine Optimization
WP	Work Package

Executive summary

The **openDBL project** addresses the needs of the Architecture, Engineering, Construction, and Operations (AECO) industry by creating a comprehensive Digital Building Logbook (DBL) platform. This platform integrates open APIs and cutting-edge technologies like **AI, Blockchain, IoT, and VR** to streamline building data management, improve transparency, and support sustainable practices in line with the **EU's circular economy and green policies**.

During **Months 13-24 (M13-M24)**, openDBL made significant strides in communication and dissemination. The project website served as a central hub, regularly updated with press releases, project results, and activities. The site's optimization for search engines improved its visibility, drawing over **18,000 page views from 106 countries**. Complementing the website, social media channels provided timely updates and fostered engagement with hundreds of followers. Notably, LinkedIn amassed **718 followers**, while Twitter maintained a steady audience for live event coverage and real-time project updates. Newsletters and press releases played a crucial role in stakeholder engagement, achieving an average open rate of **41%**. These communications highlighted major milestones, such as public events at pilot sites, workshops, and the summer school initiative. Key events included the **public showcase at Giovanni Bovio School in Ruvo di Puglia**, the **BIM course in Mislata**, and collaborative webinars with sister projects like **CHRONICLE and DigiBUILD**. These activities underscored openDBL's commitment to knowledge sharing and collaboration within the broader European research and innovation community.

In addition to communication efforts, openDBL contributed to scientific and non-scientific publications, increasing visibility within the industry. Collaboration with sister projects and participation in business conferences and workshops enhanced the project's outreach and fostered synergies with related initiatives. As openDBL enters its third year, it aims to expand these efforts by producing interactive content, strengthening stakeholder connections, and ensuring the platform's continued growth and impact.

openDBL project summary

openDBL intends to integrate multidisciplinary know-how to cover the requirements of the Call and solve the issues of the current situation. The challenge of the project is to allow, through the development of open API, the disposal of openDBL in a unique standardized platform and create useful content, to simplify the workload of the AECO industry.
The project pursues 3 objectives: 1) create a DBL with useful content and functionalities, 2) ensure openDBL is usable and simple to use, reducing the time spent to upload, search, and process the information and data to facilitate usage and gain wide adoption, 3) ensure attractive economics, through value propositions and convenient pricing. We'll provide any user with an integrated platform for their digitization needs; ensure that information and data conform to the latest trends and needs of our target clients and support the EU's circular economy and green policies; develop automatic classification systems and data standards; facilitate the operation and maintenance activities of the buildings. This will be achieved creating an Information Delivery Manual and a Data Model and further developing our existing platform used to create a DBL for an important Italian Public Contracting Authority. openDBL will support data matching with external databases and will integrate state of-the art technologies (AI, Blockchain, IoT and VR). Our ambition is to make openDBL the platform of reference for the monitoring of building consumption, transparencies of transactions and official documents, and the positive impact on maintenance and environment.

Work Package 4 Objectives

To reach its goals openDBL is divided into 6 WPs with different goals, tasks and deliverables. The goal of WP4 is to conduct targeted, effective and high-impact communication, and outreach activities of project results. Exchange of results, information and findings with end-users, stakeholders and other relevant parties is envisaged. As specific objectives: 1) Deliver tailored communication & awareness actions to specifically targeted audiences; 2) Promote the project and its outputs to the largest possible audience, maximizing the expected impacts of openDBL; 3) Iterative assessment and improvement of communication activities; 4) Implement and follow a dedicated stakeholder engagement strategy; 5) Define the Dissemination Plan, 6) Implement dissemination actions, including networking & clustering, 7) Define the transferability of the project's results and its further use by all partners.

Mapping openDBL outputs

Table 1 openDBL work description.

openDBL GA Component Title	openDBL GA Component Outline	Respective Document Chapter(s)	Justification
DELIVERABLE			
D4.12 **Communication, dissemination and stakeholder report**	*It reports updated communication and dissemination strategy and plan of the project.*		*A revised and continued version of D4.11 submitted in M12 to provide a communication and dissemination strategy for openDBL project for M13-M24.*
TASKS			
4.2.1 Dissemination actions *4.4.2 Communication activities*	*The dissemination manager, DIGI, will manage open OPENDBL dissemination actions. Moreover, all partners will be involved in the dissemination actions.* *DIGI will manage communication activities. Nevertheless, all partners will be responsible to communicate the project through their communication channels and towards their existing communities. openDBL visual identity, including the logo, all graphic elements and images, templates for presentations and reporting, and the website will be designed at the beginning of the project. The project's*		*Led by DIGI, communication and dissemination activities are plan to be performed by the partners are described.*

	website will become the main access point to key information, including objectives, partners, activities, events, publications, project news, dissemination materials and crosslinks to other EU projects and initiatives. The management of the website contents will be backed up also by a social media strategy assessing the most efficient social networks to reach the targets and using different social networks to reach the project targets. Supporting communication material will be developed to strengthen communication activities and the visual impact of the project.		
Task 4.3 Knowledge Sharing Plan	*Goal is to provide a framework with which each partner must contribute its knowledge and will develop from it a project knowledge sharing plan. The publication of the different contents of this knowledge will be targeted to the appropriate media such as the project website, social media or organizations such as buildingSMART international.*		
Task 4.4. Connection with other initiatives and Stakeholder	*Goal is to ensure the connection and alignment of this project to other similar initiatives at EU level. Stakeholders from different countries in project fields like policy makers, researchers, international (ISO/TC 59,*		

Engagement Plan	*for ex), European (CEN/TC 442, CENELEC TC 205) and other formal standardization Technical Committee members or other activities related to standardization (for ex.: DigiPLACE (Digital PLAtform for Construction in Europe), BIM4EEB (BIM based fast toolkit for Efficient rEnovation of residential Building)), who could provide the final input for use cases, will be consulted and enrolled from the first stage of the project. Regular contact with stakeholders through newsfeeds, workshops, roundtables and events will provide the Consortium with stakeholders' views. Stakeholders will be actively involved in communications actions, increasing their impact. Also synergies with the Horizon Europe 'Built4People' co- programmed Partnership will be pursued. A workshop will be organised in M14) in order to connect the public, the target groups, the media and the stakeholders to the project, whereas a final event in M34 will be organized to communicate the project and inform key stakeholders on the project's main results, continue the dialogue and enhance exploitation.*		

1. Structure of the deliverable

This deliverable reports on the continuous communication and dissemination activities performed between M13-M24 along with stakeholder activities. It is the execution of the given CDP in the D4.2.

2. Communication and Dissemination activities

During the 2nd year of the project, WP4 dedicated its efforts to establishing effective means of project communication and dissemination tools and channels in accordance with the detailed plan outlined in D4.2. This encompassed various tasks such as crafting communication tools, building strong communication channels including a website, social media platforms, email campaigns, press releases, and newsletters. Moreover, it involved the development of promotional materials, enabling active participation in diverse events and business meetings, as well as organizing a summer school.

Collaborative endeavours with sister projects and similar initiatives were also a priority, fostering a collaborative environment and setting the groundwork for the project's long-term success and sustainability. These milestones were achieved by the end of the first year, positioning the project for further growth and impact. These objectives were met through a range of implemented activities and efforts mentioned in the following subsections.

2.1. Communication Activities

2.1.1. openDBL website

The openDBL website (https://www.opendbl.eu/) continues to play a pivotal role in disseminating project results and engaging with stakeholders. Since its launch in M5 (May 2023), the website has been regularly updated to reflect the progress of the project and to serve as a central information hub for the openDBL community. The primary focus for the second year (M13-M24) has been to expand and update content, optimize the website for search engines, and ensure that it supports the project's overall communication and dissemination objectives.

Throughout M13-M24, the website has undergone several key updates to ensure it remains relevant, informative, and user-friendly:

- New press releases have been published on the website to announce significant project developments and achievements.
- Two key sections of the website, the Results page (https://www.opendbl.eu/results) and the Activities page (https://www.opendbl.eu/activities), have been updated frequently to showcase the outcomes and outputs of the project's work. The Results page

(link) features key project outcomes as well as ongoing work from openDBL's pilot activities. Among the highlights are openDBL platform UI / Front End Previews, powered by e-Metodi, and 3D digital twins of pilot sites such as School G. Bovio in Ruvo, Italy, and La Fábrica Social Sociocultural Center in Mislata, Spain, both powered by in2it & CETMA. The page also showcases the virtual navigation of the G. Bovio School, emphasizing the innovative technology used across the project's pilot sites. All these efforts are part of the continuous development toward the project's goals, with regular updates and access to reports, publications, and tools. The Activities page showcases the various events and initiatives undertaken by openDBL. Key highlights include the 3D survey campaigns for the Ruvo Pilot and Mislata Pilot, both powered by in2it & CETMA.

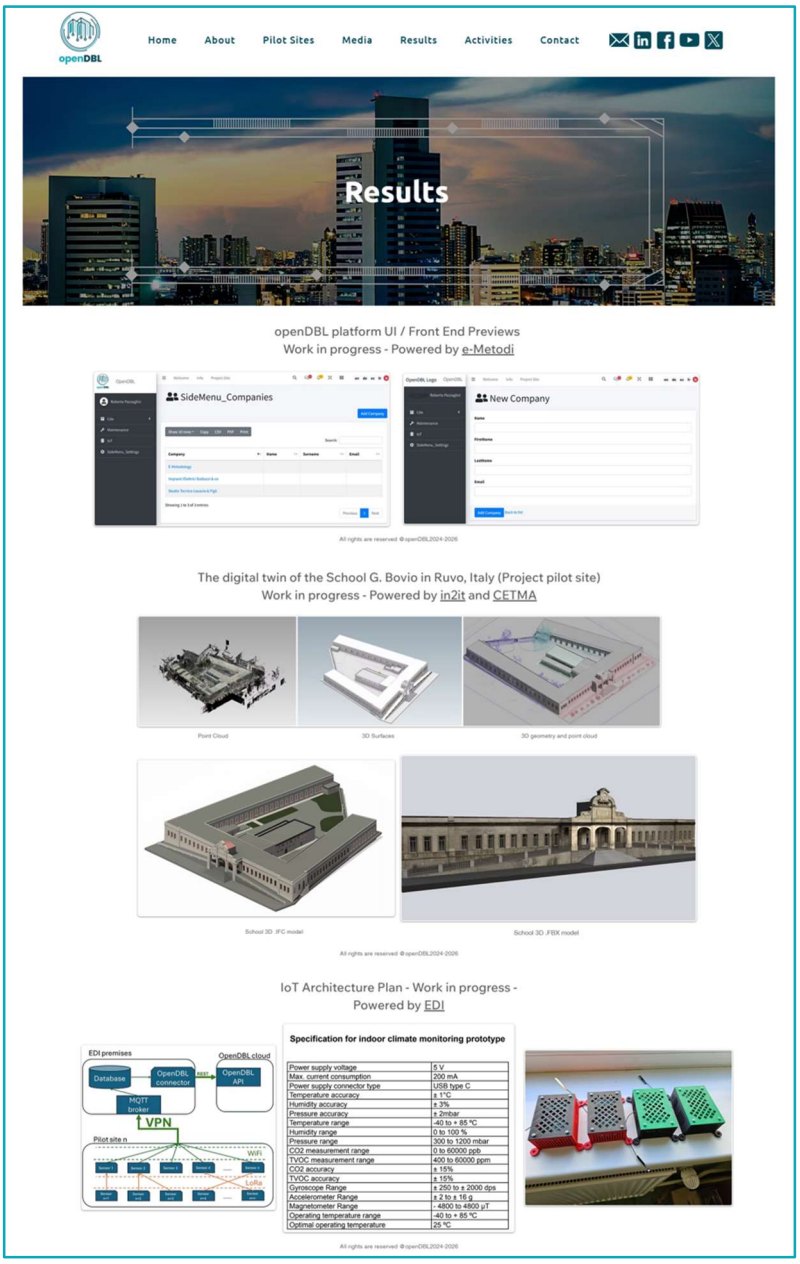


Figure 1: Screenshot of openDBL Website's Results Page

Figure 2: Screenshot of openDBL Website's Results Page

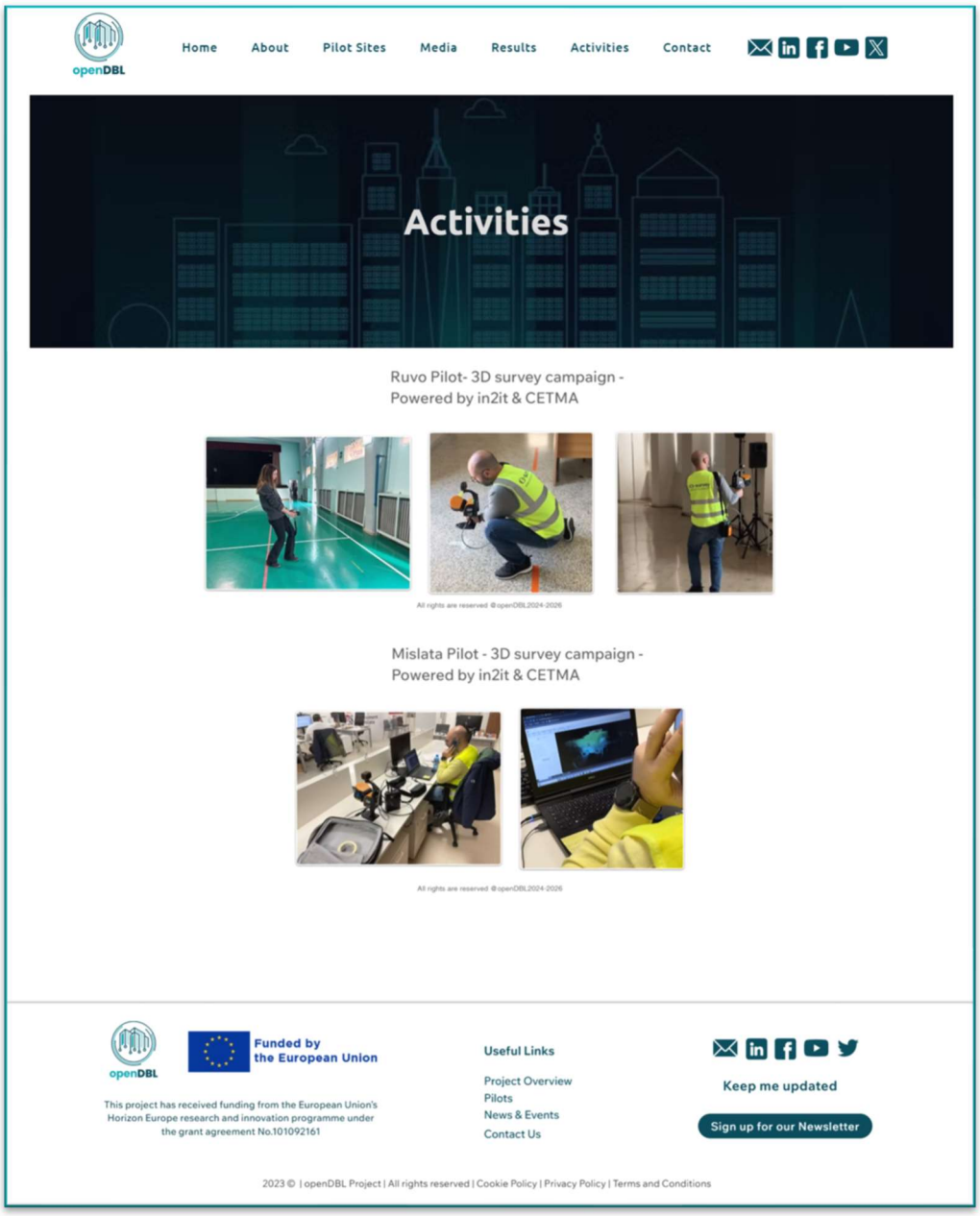


Figure 3: Screenshot of openDBL Website's Activities Page

- The Related EU Initiatives page (https://www.opendbl.eu/related-eu-initiatives), has been added to showcase the sister projects and related EU-funded initiatives. This addition contributes to strengthening the DBL community by facilitating collaborations and exchanges between projects working on similar themes, thus broadening openDBL's network within the European research landscape.

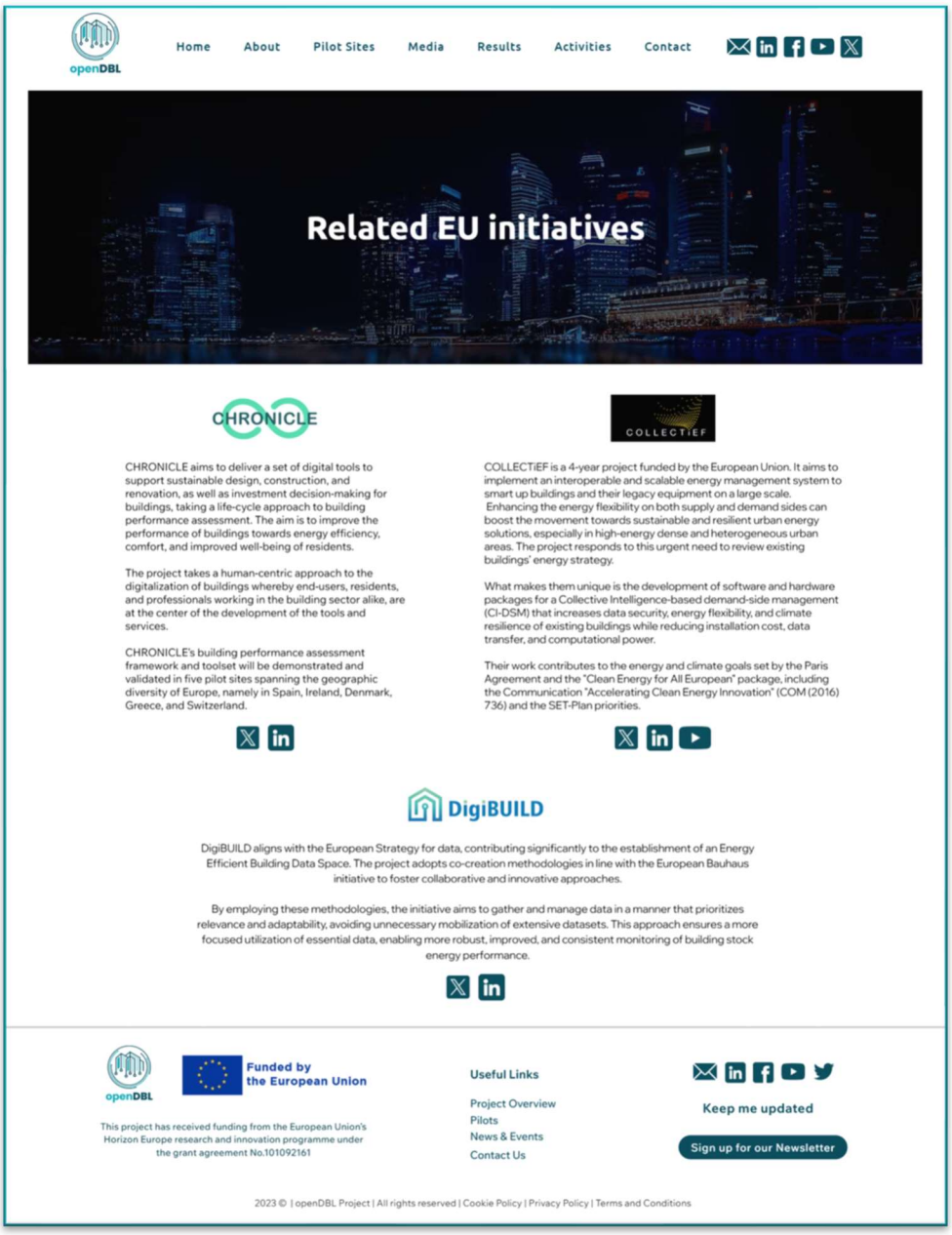


Figure 4: Screenshot of Related EU Initiatives on openDBL Website

During this period, efforts were made to improve the website's search engine optimization (SEO), ensuring greater visibility of openDBL in relevant search results. This included updating meta descriptions, optimizing page load speeds, and refining content with strategic keywords related to the project's goals and activities. These actions aim to drive organic traffic to the website, further promoting openDBL's research outcomes and engagement opportunities.

The openDBL website continues to be maintained and updated regularly to ensure that it remains
a dynamic resource for both the project partners and external audiences.

Below is a summary of the website's performance metrics from M13-M24, reflecting the impact of the SEO efforts on traffic, engagement, and overall visibility:

KPIs	Statistics
Users	887
Page Views	>18k
Countries	106

Table 1: openDBL Website Performance Metrics

In the next phase of the project (M25-M36), the website will continue to be the main communication and dissemination platform, with plans to:

- Further expand the **Results** and **Activities** sections with new research outputs and details of upcoming initiatives.
- Strengthen connections with other EU-funded projects by continuing to build out the **Related EU Initiatives** page.
- Implement additional SEO strategies to maintain and improve search engine rankings.
- Develop and publish more interactive content, such as videos and webinars, to support ongoing dissemination and engagement activities.

The updates and improvements made during M13-M24 reflect openDBL's commitment to maintaining a user-centric, informative, and accessible website that continues to support the project's dissemination and communication objectives.

2.1.2. Social Media Channels

Social media platforms were used to connect with a wide audience, facilitate real-time updates, and engage stakeholders in meaningful conversations around openDBL's mission and activities. The platforms selected are based on their capacity to reach targeted audiences and encourage interaction.

2.1.2.1. LinkedIn

As of Month 22, the openDBL LinkedIn page has garnered 700 followers, reflecting a steady growth in our professional network. The page serves as a key resource for sharing project updates, events, and significant milestones. Throughout this period, the Digi team has consistently posted about various activities, including summer

schools, webinars, and pilot site events, in addition to conferences where openDBL partners have represented the project. These efforts have contributed to building a network of followers from the research community, industry professionals, and other stakeholders, facilitating knowledge exchange and collaborative opportunities.

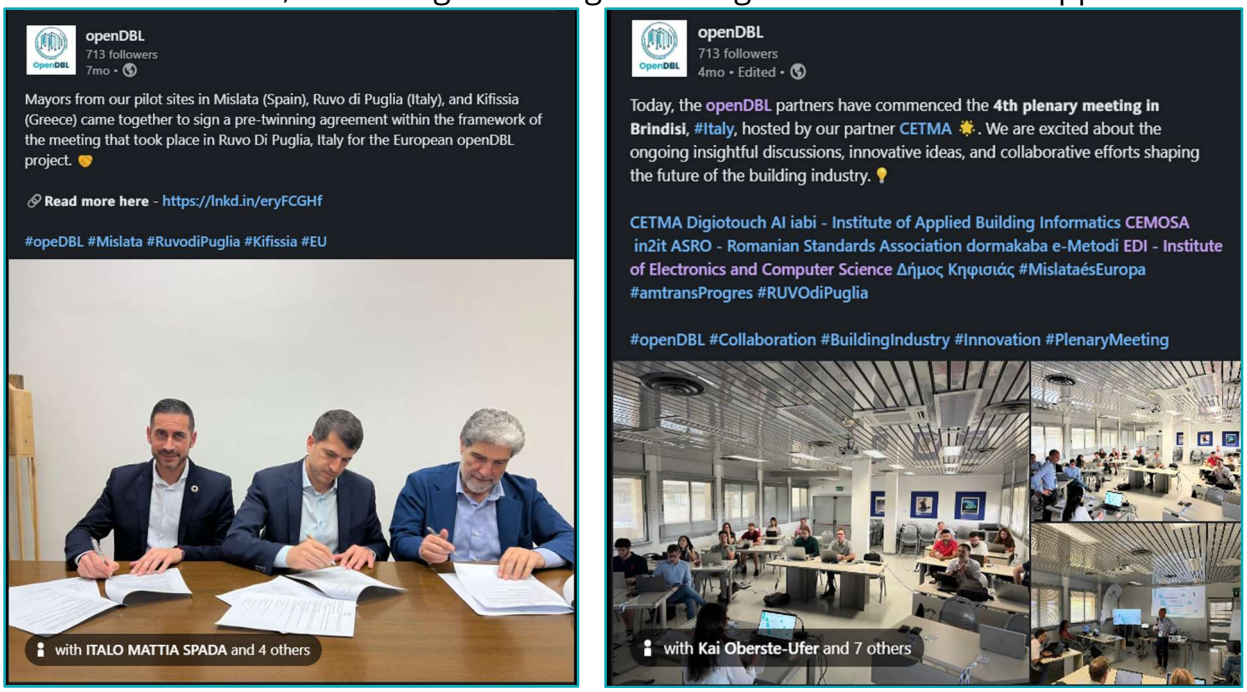


Figure 5: Screenshot of openDBL's Linkedin Posts

2.1.2.2. Twitter

As of Month 22, the openDBL Twitter account has garnered 124 followers. The content shared on this platform is similar to that of LinkedIn, ensuring consistent messaging across both channels. openDBL utilizes Twitter to disseminate timely updates, event announcements, and live coverage of significant activities. This platform facilitates real-time interaction with followers during key events, such as webinars and workshops, engaging in discussions and enhancing the project's visibility through retweets and engagements. Posts primarily focus on promoting project outputs, upcoming events, and participation in relevant conferences, employing targeted hashtags to connect with discussions in the fields of data management and sister projects.

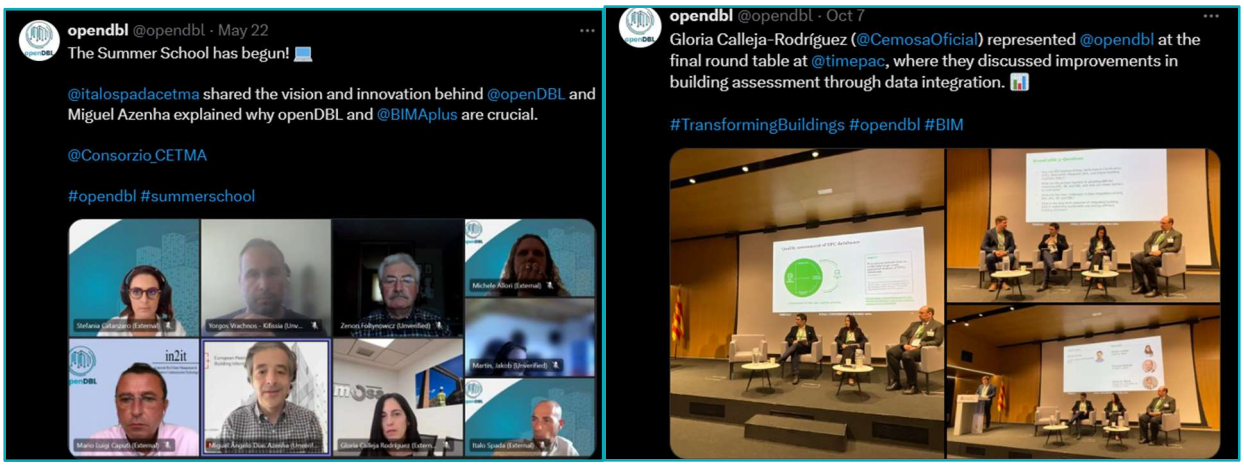


Figure 6: Screenshot of openDBL's Twitter Posts

2.1.2.3. YouTube

As of M22, the openDBL YouTube channel has 13 subscribers. This year, the channel has expanded its content library with a new set of videos filmed during the 4th plenary meeting in Italy. These videos feature all project partners sharing their roles and detailing their progress up to the mid-project mark. This visual content is crucial in disseminating insights into the collaborative efforts of openDBL, enhancing transparency and accessibility for a broader audience interested in the project's objectives and achievements. By providing a platform for partners to discuss their contributions, the YouTube channel enhances the project's transparency and accessibility to a wider audience.

Video Title	Speaker/Partner	Overview	Link
Mislata's Progress in openDBL	Adrià Vila, Mislata	Updates on sensor selection, point cloud creation, energy savings, and city twinning efforts to promote BIM in construction.	https://tinyurl.com/mss3jhrn
Ruvo di Puglia's Role in openDBL	Antonio Mazzone, Ruvo di Puglia	Highlights the city's participation in openDBL with sensors installed at Giovanni Bovio School and plans to expand to new PNRR-funded constructions.	https://tinyurl.com/4wvrj38p
	Andrea Tiveron, e-Metodi		

e-Metodi's Contribution to openDBL		Focuses on reducing construction's energy impact by developing an interoperable Open API system for data autonomy and decentralized digital construction.	https://tinyurl.com/yc8ht4p3
Kifissia's Contribution to openDBL	George Kermeliotis, Kifissia	Shares updates on pilot sites at the town hall and a kindergarten, improving building management through workshops and laser scanning activities.	https://tinyurl.com/2f7s4h6s
CEMOSA's Progress in openDBL	Gloria Calleja-Rodríguez, CEMOSA	Developed mobile app prototypes to enhance on-site quality control, conducted market assessments as part of Work Package 5, and plans to integrate digital building logbooks.	https://tinyurl.com/mr3vr8jw
ASRO's Achievements in openDBL	Cristina Chirea, ASRO	Connected with similar initiatives, co-organized a webinar, finalized relevant standards for analysis, and contributed key conclusions to the White Paper on Standardization for openDBL.	https://tinyurl.com/33fesmk8
CETMA's Innovations in openDBL	Italo Spada, CETMA	Developing a digital building logbook platform integrating VR, blockchain, and AI to improve functionality and user experience.	https://tinyurl.com/3h9vsadd
Amtrans' Efforts in openDBL	Marcin Konopczyński, Amtrans Progres	Focused on sustainability by identifying key areas, preparing pilot tools, and expanding efforts to monitor CO2 and gas emissions for energy efficiency.	https://tinyurl.com/27nsun5p
IABI's AI Development in openDBL	Jakob Martin, IABI	Developed an ontology-based AI approach, built a graph database, and plans to enhance data management	https://tinyurl.com/4snvnvfd

		by mapping attributes in the next project phase.	
EDI's IoT Progress in openDBL	Jānis Judvaitis, EDI	Deployed sensors in a rural school, prepared data transfer processes, and integrated door access control systems with plans for further data system integration.	https://tinyurl.com/247ytfba
Dormakaba's AIContributions to openDBL	Kai, Dormakaba	Developed data structures, ontology, and AI, and collaborated with CETMA to identify door data in 2D floor plans for database integration.	https://tinyurl.com/n6ks29ep
EDI's IoT Network in openDBL	EDI	Introduced a large-scale IoT network for data gathering in buildings, supporting the Horizon Europe openDBL project.	https://tinyurl.com/4dacy2hf

Table 2: openDBL YouTube Videos Overview

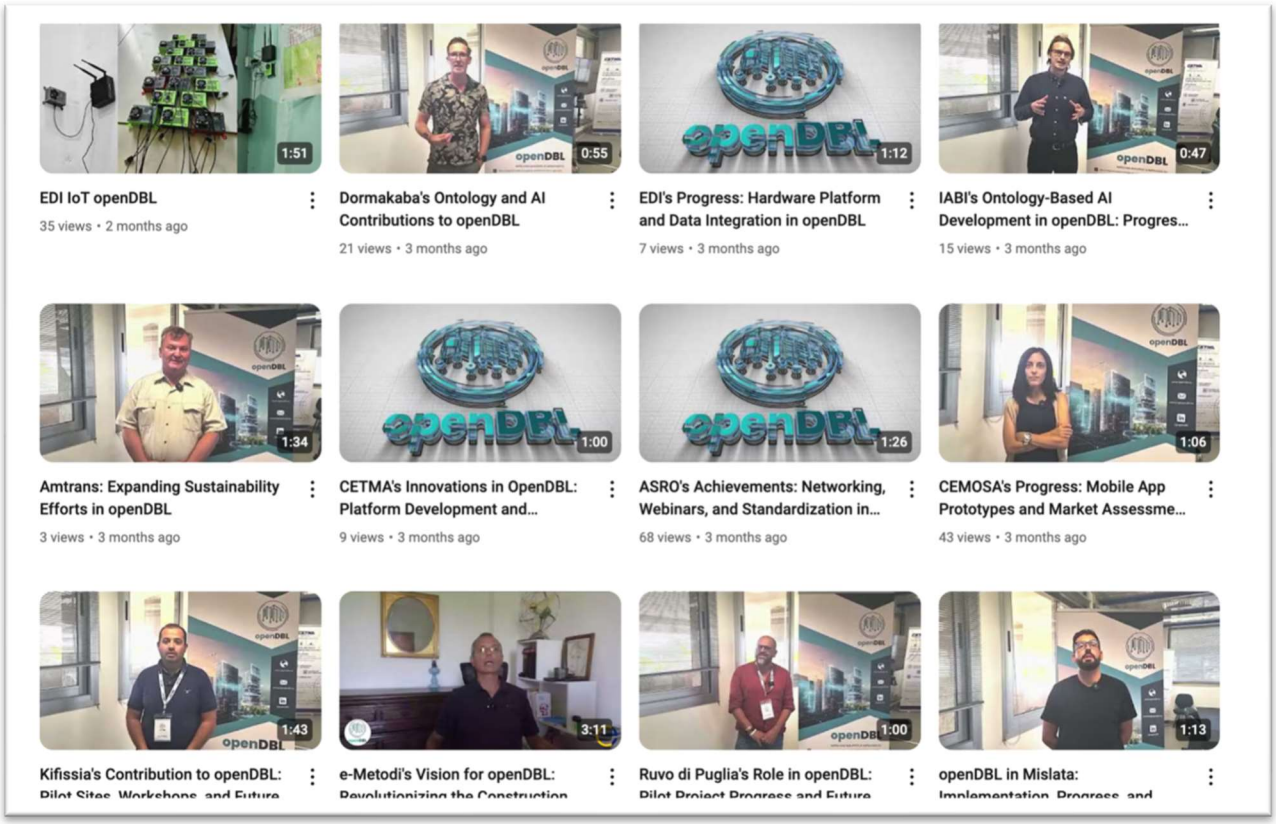


Figure 7: Screenshot of openDBL's YouTube Videos

2.1.2.4. Facebook

As of Month 22, the openDBL Facebook page has reached 31 followers. The content shared on this platform is similar to that of LinkedIn, ensuring a consistent narrative across social media channels. Posts typically include updates on project activities, summaries of events, and highlights from pilot site initiatives. By engaging with a broader audience, the Facebook page aims to extend the project's reach.

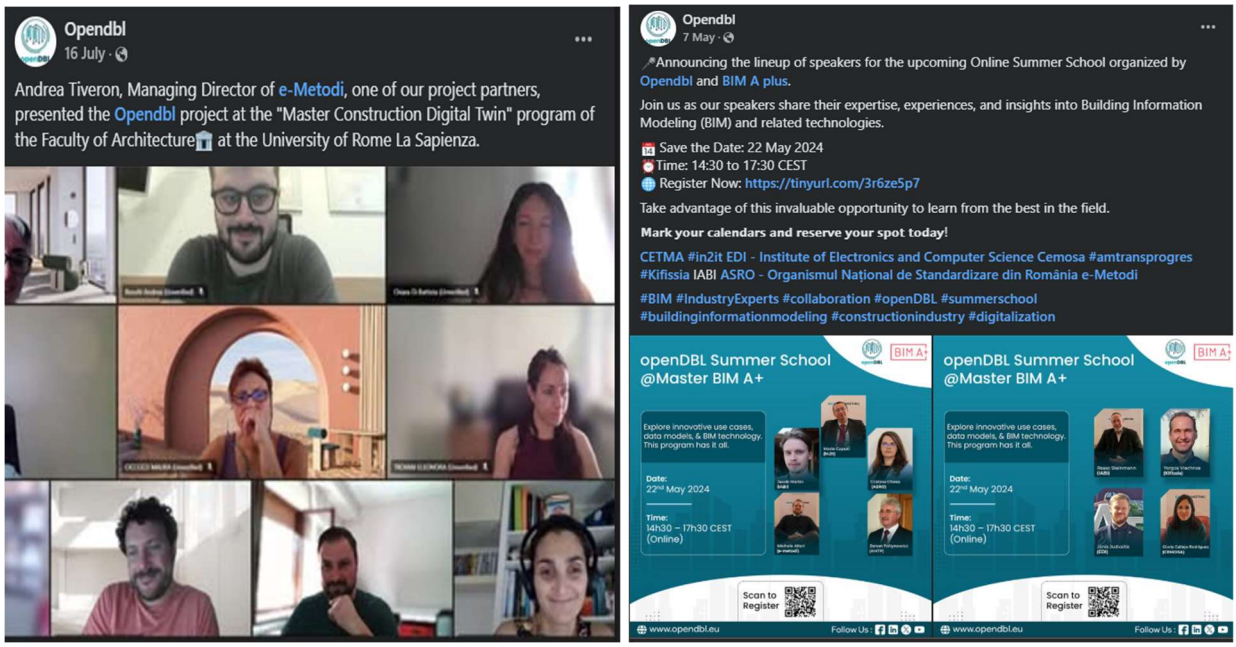


Figure 8: Screenshot of openDBL's Facebook Posts

Throughout 2024, openDBL actively engaged its audience by consistently posting on LinkedIn, Facebook, and X, averaging 2 posts per week per channel.

The table below summarizes the performance of openDBL's social media performance for the period of M13-M24:

	Linkedin	**Facebook**	**X[1]**

[1] Note – X (previously Twitter) analytics are not available on the free version.

Followers	**718**	**32**	**92**
Reactions	**1,071**	**319**	
Impression/Reach	**15,962**	**3,500**	
Posts	**85**	**80**	**80**
Clicks	**3,419**	**38**	

Table 2: openDBL social media channels' performance

Moving into Year 3 of the project, the social media strategy will revolve around the following objectives:

1. **Increase Engagement:** Develop interactive content that increases participation, such as polls, Q&A sessions, and discussion prompts.
2. **Share Informative Updates:** Regularly communicate project milestones, achievements, and progress through engaging posts and articles. Highlight significant events and outcomes to keep the audience informed.
3. **Community Building:** Cultivate a sense of community by encouraging dialogue and responding to comments promptly. Create a space for collaborative discussions and knowledge sharing among followers.
4. **Expand Reach:** Utilize diverse content formats, including videos, infographics, and live streams, to attract a wider audience. Tailor content to different platforms to maximize engagement.
5. **Strengthen Connections:** Build deeper relationships with the audience by acknowledging contributions and feedback.

2.1.3. Newsletter

During Year 2, there was a significant increase in the frequency and content of newsletters, driven by several important events. This proactive communication strategy played a crucial role in keeping stakeholders informed and engaged throughout the project's progression.

Below is an overview of the email newsletters sent to stakeholders:

Date	Title	Content	Analytics
30/01/2024	openDBL in Mislata	3rd Plenary Meeting highlights and BIM Course held in Mislata	67 Recipients 24 Opens 3 Link Clicks
14/02/2024	openDBL joint webinar announcement	Invitation to our virtual webinar: *Building Tomorrow: Navigating the Future with BIM-Driven Digitalization,* hosted in collaboration with CHRONICLE and DigiBUILD.	67 Recipients 29 Opens 5 Link Clicks
28/02/2024	openDBL's joint webinar recap and resources	Key highlights from the webinar, with slides available for download and the recording on our YouTube channel.	134 Recipients 54 Opens 16 Link Clicks
23/04/2024	Recap of openDBL's event in Ruvo Di Puglia	Event highlights from the openDBL public event at Giovanni Bovio School in Ruvo Di Puglia, shared as a newsletter recap.	134 Recipients 40 Opens 8 Link Clicks
24/04/2024	openDBL's summer school announcement	Invitation to all BIM enthusiasts to join the openDBL Summer School at Master BIM A+.	131 Recipients 55 Opens 16 Link Clicks
24/05/2024	openDBL's summer school recap and resources	Recap of the openDBL Summer School at BIM A+, including the event recording and slides.	109 Recipients 63 Opens 22 Link Clicks

30/09/2024	openDBL's Community Update	Recap of recent events: • The 4th openDBL Plenary Meeting. • Workshop on BIM Application in Existing Buildings. • openDBL Summer School @ Master BIM A+.	274 Recipients 109 Opens 13 Link Clicks

Table 3: openDBL Newsletters Overview and Analytics

Newsletter Reach and Engagement:
The analytics reveal steady audience engagement across Year 2:

- **Open Rates:** An average open rate of approximately **41%**, showcasing consistent reader interest.
- **Click-Through Rates:** On average, **12-15%** of recipients actively engaged with event links, downloadable resources, and recordings.
- **Growth:** The newsletters grew in distribution, with the latest update reaching **274 recipients**, a clear indicator of increased project visibility and community interest.

In addition, the openDBL LinkedIn newsletter has grown to reach 325 subscribers as of Year 2.

Below are the LinkedIn newsletters published in 2024:

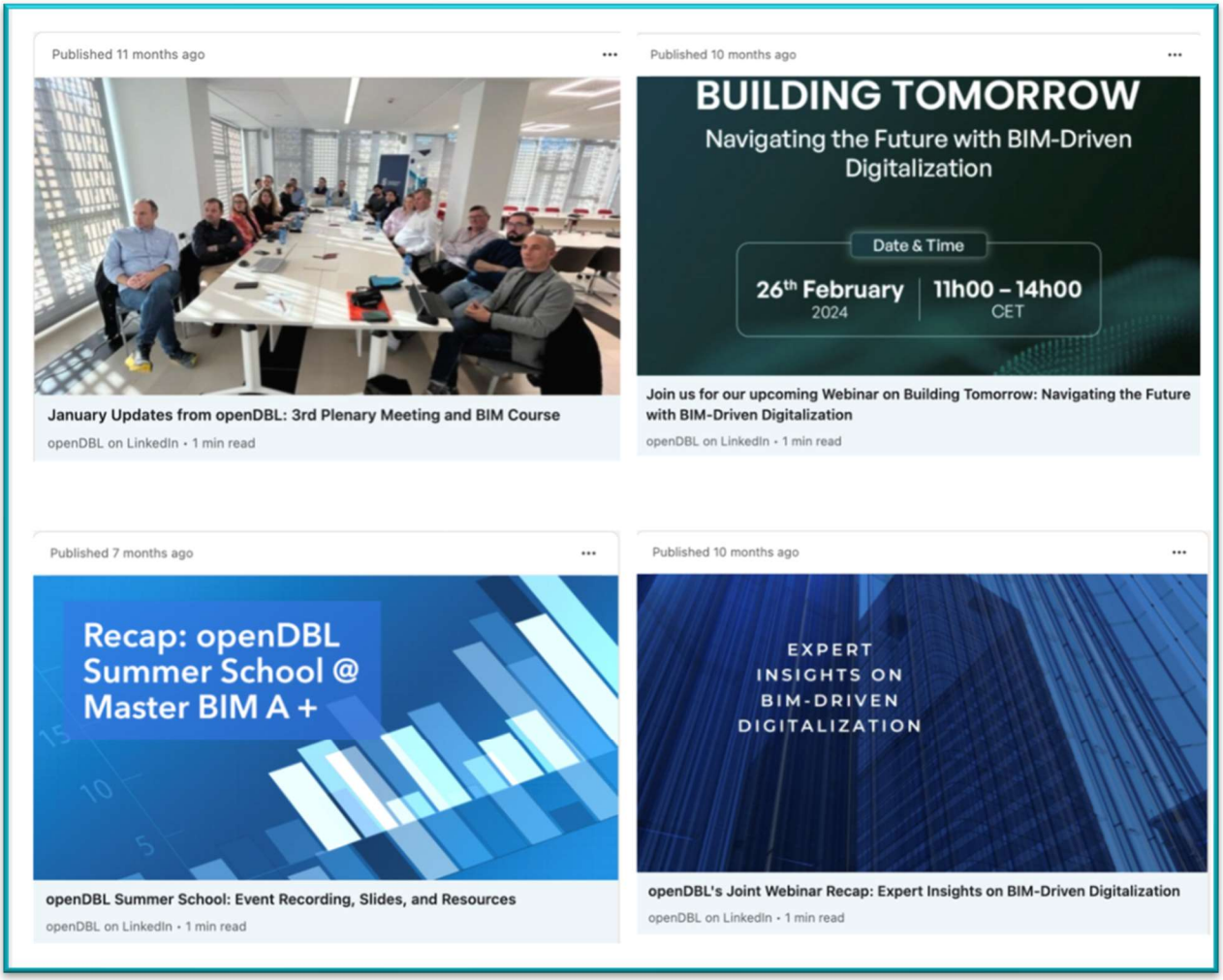


Figure 9: Screenshot of openDBL's Linkedin Newsletters

Newsletters will continue to showcase key achievements, events, and collaborative efforts in Year 3. Plans include integrating more multimedia content, partner spotlights, and interactive features to boost engagement further and keep the openDBL community actively involved.

1.1.1. Press Release

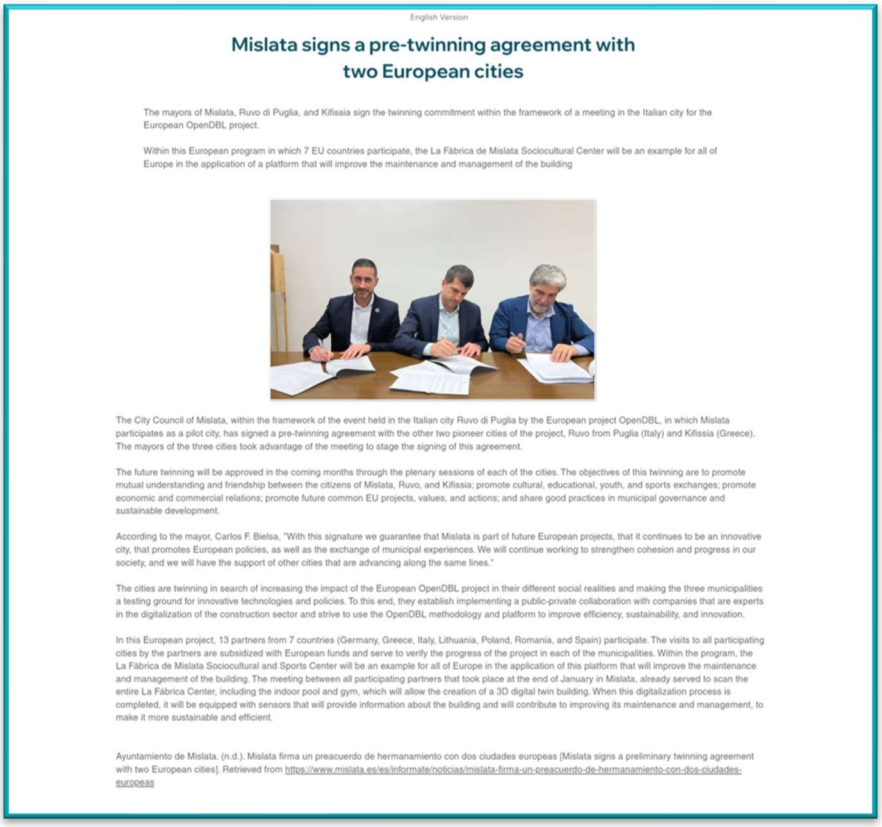
Press releases were issued to highlight significant achievements and milestones, ensuring broader visibility for the project's developments. Key announcements included:

- **Pilot Site Event in Ruvo:** A press release detailed the public event held in Ruvo di Puglia, Italy, showcasing the project's progress and engaging the local

community. The event emphasized the importance of collaboration and knowledge sharing among stakeholders.

- **Workshop in Kifissia:** The press release covered a workshop hosted by TEE and openDBL in Kifissia, focusing on the application of BIM in existing buildings. This workshop brought together experts and practitioners to discuss innovative solutions and share best practices.
- **Pre-Twinning Agreement:** A notable milestone for openDBL was the signing of the pre-twinning agreement by the mayors of Mislata, Ruvo di Puglia, and Kifissia. This commitment was formalized during a meeting in Ruvo di Puglia, underscoring the project's collaborative spirit and future aspirations. A press release was issued to announce this achievement, outlining its importance and potential impact on enhancing collaboration among partners and setting the stage for future initiatives.

Overall, the strategic use of newsletters and press releases in Year 2 was instrumental in promoting stakeholder engagement, ensuring transparency, and effectively communicating important project information.



English Version

Mislata signs a pre-twinning agreement with two European cities

The mayors of Mislata, Ruvo di Puglia, and Kifissia sign the twinning commitment within the framework of a meeting in the Italian city for the European OpenDBL project.

Within this European program in which 7 EU countries participate, the La Fàbrica de Mislata Sociocultural Center will be an example for all of Europe in the application of a platform that will improve the maintenance and management of the building

The City Council of Mislata, within the framework of the event held in the Italian city Ruvo di Puglia by the European project OpenDBL, in which Mislata participates as a pilot city, has signed a pre-twinning agreement with the other two pioneer cities of the project, Ruvo from Puglia (Italy) and Kifissia (Greece). The mayors of the three cities took advantage of the meeting to stage the signing of this agreement.

The future twinning will be approved in the coming months through the plenary sessions of each of the cities. The objectives of this twinning are to promote mutual understanding and friendship between the citizens of Mislata, Ruvo, and Kifissia; promote cultural, educational, youth, and sports exchanges; promote economic and commercial relations; promote future common EU projects, values, and actions; and share good practices in municipal governance and sustainable development.

According to the mayor, Carlos F. Bielsa, "With this signature we guarantee that Mislata is part of future European projects, that it continues to be an innovative city, that promotes European policies, as well as the exchange of municipal experiences. We will continue working to strengthen cohesion and progress in our society, and we will have the support of other cities that are advancing along the same lines."

The cities are twinning in search of increasing the impact of the European OpenDBL project in their different social realities and making the three municipalities a testing ground for innovative technologies and policies. To this end, they establish implementing a public-private collaboration with companies that are experts in the digitalization of the construction sector and strive to use the OpenDBL methodology and platform to improve efficiency, sustainability, and innovation.

In this European project, 13 partners from 7 countries (Germany, Greece, Italy, Lithuania, Poland, Romania, and Spain) participate. The visits to all participating cities by the partners are subsidized with European funds and serve to verify the progress of the project in each of the municipalities. Within the program, the La Fàbrica de Mislata Sociocultural and Sports Center will be an example for all of Europe in the application of this platform that will improve the maintenance and management of the building. The meeting between all participating partners that took place at the end of January in Mislata, already served to scan the entire La Fàbrica Center, including the indoor pool and gym, which will allow the creation of a 3D digital twin building. When this digitalization process is completed, it will be equipped with sensors that will provide information about the building and will contribute to improving its maintenance and management, to make it more sustainable and efficient.

Ayuntamiento de Mislata. (n.d.). Mislata firma un preacuerdo de hermanamiento con dos ciudades europeas [Mislata signs a preliminary twinning agreement with two European cities]. Retrieved from https://www.mislata.es/es/informate/noticias/mislata-firma-un-preacuerdo-de-hermanamiento-con-dos-ciudades-europeas

Figure 11: Screenshot of openDBL's press release

openDBL

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Workshop on BIM Application in Existing Buildings Hosted by TEE and openDBL Kifissia

On June 27, 2024, the Technical Chamber of Greece (TEE), in collaboration with openDBL's partner Kifissia, hosted a workshop titled "Application of Building Information Modeling (BIM) in Existing Buildings." This event, part of TEE's ongoing professional development initiatives, focused on the practical implementation of BIM technology in renovation projects.

Special thanks are due to the Technical Chamber of Greece and the Municipality of Kifissia (Δήμος Κηφισιάς) for their excellent organization of the workshop. The event drew architects, engineers, and construction professionals, all keen to explore BIM's transformative potential in existing buildings.

Key highlights of the workshop included:

Opening Speeches
The event was inaugurated by George Kokkolis, General Secretary of the Municipality of Kifissia (Δήμος Κηφισιάς), along with Mario Caputi, Angela Gaitani, and Liana Anagnostaki, setting the tone for a day of insightful discussions.

Project Presentations
Italo Spada, Project Coordinator of openDBL, presented the openDBL project, outlining its mission, consortium partners, working packages, business model, and implementation steps.

Advanced Digital Solutions
Mario Caputi from in2it discussed advanced digital solutions in BIM, including Scan to BIM, BIM Authoring, Common Data Environment, BIM to Field, BIM to FM, and the integration of AI/ML, VR, and Blockchain technologies.

Technical Sessions
Hands-on sessions provided participants with direct experience using BIM software tools, demonstrating the step-by-step process of creating and managing digital representations of physical spaces.

Case Studies and Practical Applications
Real-world examples of successful BIM implementations in existing buildings illustrated the challenges and solutions encountered in practice.

Angela Gaitani, Project Manager of the openDBL project at the pilot site in Kifissia (Δήμος Κηφισιάς), concluded the event by thanking all attendees and organizers for their participation and contributions.

The collaborative effort between TEE and openDBL Kifissia highlighted the importance of continuous education in the evolving field of construction technology. This workshop emphasized BIM's role in modernizing building management practices, aligning with openDBL's mission to promote sustainable and innovative solutions in the built environment.

Discover the future of BIM, construction innovation, and the openDBL initiative with us!

Figure 12: Screenshot of openDBL's press release

1.1.2. Infographics, banners

During Year 2, DIGI developed a range of infographics, banners, posters, and roll-ups for various events, including webinars, the openDBL Summer School, and workshops at the pilot sites. These materials were carefully designed to align with the project's goals, effectively communicating key messages and progress. The visuals played an essential role in ensuring that the impact and achievements of openDBL were clearly conveyed at each event, enhancing visibility and engagement.

Among many, the following infographics stood out for their clarity and design, effectively conveying key messages to the audience:

Figure 13: openDBL's infographics

Figure 14: openDBL's infographics

Looking ahead to Year 3, DIGI will be preparing customised infographics for each occasion. These materials will continue to be crucial in delivering the project's key messages and achievements at business conferences and events, ensuring that openDBL's objectives and outcomes are communicated effectively to a wider audience.

1.1.3. Multimedia content

Multimedia content continues to be a key focus for openDBL's communication efforts. DIGI has produced videos with project partners, highlighting their roles and progress, while CETMA developed VR videos to provide immersive insights into the pilot sites. These videos have been shared across platforms like YouTube and social media, enhancing project visibility and engagement. Moving forward, DIGI will continue to create impactful video content, including expert interviews, to convey key project concepts, and keep the audience informed on ongoing developments.

1.1.4. Printed materials

During the public event in Ruvo Di Puglia organized by CETMA, DIGI specially designed brochures and agendas which were created and distributed to support

effective communication of the project. These materials provided a concise yet comprehensive overview of the project's objectives, progress, and key offerings, ensuring attendees could easily engage with and understand the project's vision and achievements.

Figure 15: Brochure of openDBL's Event at Ruvo di Puglia Pilot Site

1.1.5. Business Development Meetings

During the recent TIMEPAC Final Conference on Transforming Building Performance Assessment, CEMOSA actively contributed to Round Table 3: Improving Building Assessment through Data Integration. Representing the openDBL project, she shared her perspectives on how data integration can significantly enhance building assessments, underscoring the importance of cohesive data strategies for accurate building performance evaluations.

Additionally, CEMOSA held a dedicated business development meeting at the conference, furthering openDBL's strategic outreach efforts. This engagement provided an opportunity to discuss potential collaborations, explore new partnerships, and promote openDBL's mission of advancing innovative solutions in building assessment.

1.2. Dissemination Activities

1.2.1. Scientific publications and talks:

- **Leveraging Classification Knowledge for Improved Data Accessibility in Digital Construction**
- **Bridging Information Gaps in AECO Industry: A Prototype Framework for Standardized Product Data Provisio**
- **A Comprehensive Review of Sensor-Based Smart Building Monitoring and Data Gathering Techniques**
- **Standardization works in openDBL** for the readers of Standardization publication.
- **Buildings with digital logbook: in Apulia, Italy's first test on the 100-year-old Giovanni Bovio school in Ruvo** on Bari.Repubblica.it.
- **Talking buildings: a remote monitoring on environmental quality and safety** on TGR Puglia.
- **Science and Environment News by the science editorial staff of Tgr Piemonte** on TG Leonardo.
- **e-Metodi** published an article on *ESG360* titled openDBL – the European Project for Building Knowledge for Sustainability.
- **Talking Buildings: Remote Monitoring of Environmental Quality and Safety**: This piece highlights the project's efforts in integrating technology for environmental monitoring in buildings.
- **ASRO** published an article in *Standardization* on the project's contributions to standardization in digital construction, focusing on harmonizing data models and ensuring interoperability across the EU.
- **Buildings with digital logbook: in Apulia, Italy's first test on the 100-year-old Giovanni Bovio school in Ruvo** on Bari.Repubblica.it.

1.2.2. Non-scientific articles

- **Mislata is Committed to the Digitalization of Buildings**: This publication outlines Mislata's commitment to leveraging digital technologies for building management and sustainability.
- **Experimentation of the openDBL Palazzo Parlante Project on the Bovio School**: This article details the innovative applications of the openDBL project within the educational environment of the Bovio School.
- **Mislata Signs a Pre-Twinning Agreement with Two European Cities**: This publication discusses the signing of a pre-twinning agreement, enhancing collaboration between Mislata and its European counterparts.

1.2.3. Events - Pilot spotlight sessions, demos, and exhibitions

1.2.3.1. Summer/Winter school

In Year 2, openDBL in partnership with BIM A+, successfully organized a Summer School in May 2024 (M17). The event brought together leading experts, educators, and innovators in the field of Building Information Modeling (BIM). This online summer school program featured expert-led presentations, offering participants from academia and industry practical insights into enhancing building energy efficiency and lifecycle management using BIM. The Summer School was a key initiative in fostering collaboration between industry professionals and the openDBL community. Similar initiatives are planned for the coming Year 3 (M25 – M36).

1.2.3.2. Workshop on BIM Application in Existing Buildings

The Technical Chamber of Greece (TEE), in collaboration with openDBL's partner Kifissia, hosted a workshop titled "Application of Building Information Modeling (BIM) in Existing Buildings." The event focused on practical BIM implementation in renovation projects, featuring speeches from key figures, presentations on advanced BIM solutions, and hands-on technical sessions. Topics included Scan to BIM, BIM Authoring, and integrating AI/ML, VR, and Blockchain technologies. The workshop highlighted continuous education in construction technology and BIM's role in modernizing building management practices.

Figure 16: openDBL partners in Kifissia, Greece

1.2.3.3. Joint Webinar with Chronicle and DigiBUILD

openDBL collaborated with the EU-funded CHRONICLE and DigiBuild projects to host a webinar titled "Building Tomorrow: Navigating the Future with VR BIM-Driven Digitalization." The event covered topics including VR BIM methodologies, BIM and IoT integration, VR's role in BIM, and digitalization milestones in real estate, emphasizing collaboration and innovation in advancing construction digitalization.

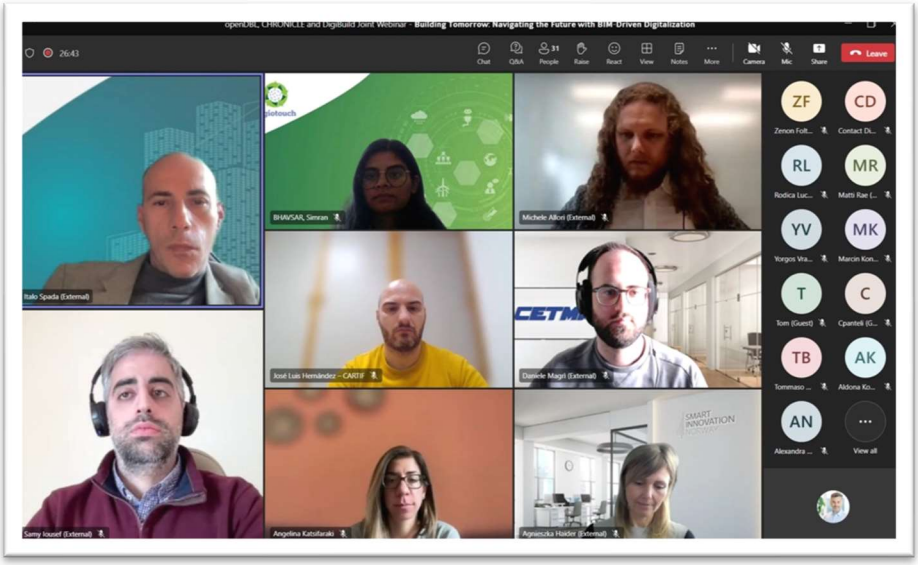

Figure 17: screenshot of the joint webinar hosted by openDBL

1.2.3.4. BIM Course Organized by the Mislata City Council

In January 2023, the Mislata City Council hosted a Building Information Modeling (BIM) course at La Fábrica in Mislata, Spain. The course was led by in2it. This event aimed to educate local stakeholders and professionals on the importance of BIM and other digital tools for building renovation and effective management. Participants received a comprehensive overview of BIM principles, terminology, and implementation strategies, aligning with governmental directives. The course highlighted BIM's benefits, including improved collaboration, streamlined workflows, enhanced decision-making, and cost efficiencies. Attendees engaged actively, demonstrating a commitment to embracing digital innovation in the construction industry.

1.2.3.5. Public Event at the "Giovanni Bovio" School, Ruvo

openDBL held a public event at the Giovanni Bovio School in Ruvo di Puglia, Italy, to showcase advancements in building management technologies. Project Coordinator Italo Spada opened the event alongside Deputy Mayor Monica Filograno. International partners, including representatives from Kifissia, Greece, and Mislata, Spain, introduced their pilot sites and contributions to openDBL. The event featured demonstrations of sensor integration, immersive VR experiences, and discussions on digital building logbooks, emphasizing collaboration and innovation in the construction sector.

Figure 18: openDBL partners in Ruvo, Italy

1.2.3.6. Latitude59 Conference in Tallinn

Digiotouch presented openDBL at this renowned tech event, engaging with BIM engineers, entrepreneurs, and investors. Discussions highlighted how openDBL impacts BIM by improving data transparency and fostering seamless collaboration.

1.2.4. Business conferences, Presentations and trade fairs

Throughout Year 2, openDBL partners actively represented the project at multiple international conferences and industry events, promoting the project's vision for digitalization in the construction sector. Key appearances include:

- **INNOCONSTRUCT 2024**: **ASRO** presented openDBL at this international conference on innovation in construction. The presentation focused on openDBL's role in advancing construction standards and digitalization.
- **European Standardization Seminar**: **ASRO** represented openDBL in an insightful seminar on European standardization for research projects, hosted by the AID4GREENEST Project. The focus was on integrating standardization into projects for consistency and interoperability of results.
- **CETMA-DIHSME EDIH Event**: **Dormakaba** presented openDBL's AI service for detecting doors in floor plans. The door detection application, developed within the project, was showcased as a significant advancement in smart building technologies.
- **Master Construction Digital Twin Program**: **e-Metodi** presented openDBL at the University of Rome La Sapienza, emphasizing the project's contributions to the Digital Twin concept in construction.
- **TIMEPAC Round Table: CEMOSA** represented openDBL, discussing improvements in building assessment through better data integration, with a focus on the role of BIM in enhancing these processes.

These engagements have been crucial in enhancing openDBL's visibility, promoting knowledge exchange, and driving the adoption of digital transformation in the construction industry.

KS Channels		Target KPI (Goals from Proposal)	Planned (Deliverables 4.6)	Coverage	Done (Calendar2023)	Done (Calendar2024)	To do 2025 (KPI vs Done)
Project Reports and Deliverables		5	15	-10	15	12	-22
Publications (Peer reviewed)		2	5	-3	1	3	-2
Publications (Non-Scientific)		5	17	-12	0	5	0
Events	Workshops	3	8	-5	0	3	0
	Demos, Webinars, Exhibitions & Focus groups	10	29	-19	1	4	5
	Hackathons	3	0	3	0	0	3
	Summer school	3	6	-3	1	1	1
Business Conferences and Trade Fairs	Conference & Trade fairs	20	4	16	3	2	15
	Presentations and Talks	10	27	-17	10	6	-6
Legenda							
	KPI covered						
	KPI not covered						

Figure. 19: Summary dissemination KPI

1.3. Sister Project and Similar initiatives

For task 4.4 - Connection with other initiatives and Stakeholder Engagement Plan, ASRO continued identifying and contacting Sister Projects and Similar EU Initiatives.

Acronym	Short Description	website
project REHOUSE	The focus of the project REHOUSE is to increase in the scope and productivity of the renovation process, the improvement of comfort and satisfaction of the building inhabitants and users, and the increased use of integrated solutions for the decentralized generation of renewable energy.	https://rehouse-project.eu/network-of-building-renovation-projects/
Demo-Blog	Demo-BLog is a four-year Horizon Europe funded project aimed at bringing together and further developing **Digital Buildings Logbooks** (DBLs) in Europe. DBLs are common digital data repositories capturing, integrating and storing building data from across the construction market value chain.	https://demo-blog.eu/
DigiChecks	DigiChecks is a European project designed to develop a new digital framework for managing permits and compliance checks in the construction industry. This framework allows interoperability and communication between different platforms, supporting the digitization	

	of the permit validation and approval system across different countries and regions.	https://digichecks.eu/
ACCORD project	ACCORD's objective is to digitalise permitting and compliance processes using BIM and other data sources to improve the productivity and quality of design and construction processes, support the design of climate-neutral buildings and advance a sustainable built environment in line with the EU Green Deal and new European Bauhaus initiative.	https://accordproject.eu/about/
BUILDCHAIN Project	BUILDCHAIN, BUILDing knowledge book in the blockCHAIN distributed ledger, is an Horizon Europe funded project aiming at building a knowledge base to trace all activities related to the overall life-cycle of buildings. It targets to exploit the potential of Digital Building Logbooks (DBLs) for a smarter and more sustainable built environment in the European Union.	https://buildchain-project.eu/
RECONSTRUCT	Construction uses 32% of the world's natural resources and generates 25% of total solid waste. Hence, it is responsible for 40% of greenhouse gas emissions, of which more than a third come from embodied carbon in construction, especially from cement and steel. The EU-funded project RECONSTRUCT aims to achieve circularity in the European construction sector to reduce the industry's strong environmental impact.	https://reconstruct-project.eu/

PHOENIX	PHOENIX aims at changing the role of buildings from unorganised energy consumers to active agents orchestrating and optimising their energy consumption, production and storage, with the goal of increasing energy performance, maximising occupants' benefit, and facilitating grid operation. The project will design a portfolio of ICT solutions covering all aspects from hardware and software upgrades needed in legacy equipment and optimal deployment of sensors, to data analytics and services for both building users and energy utilities. PHOENIX will take advantage of artificial intelligence technologies, as well as edge/cloud computing methods, to provide the highest level of smartness to existing buildings.	https://phoenix-h2020.eu/

Table 4: An overview of the activities with the sister projects

All these similar initiatives were contacted via e-mail or via website and we will organize 1st introductory meetings to introduce the scope of the projects, potential synergies, and collaboration activities.

On 26th of February a Joint Webinar with Sister Projects was organized together with Chronicle and DigiBUILD **"**Building Tomorrow: Navigating the Future with VR BIM-Driven Digitalization"

A follow-up meeting to discuss and identify how openDBL and COLLECTiEF can create synergies took place on 27th of November. Following this meeting openDBL partners will analyze the possibility to submit a joint proposal to host a policy session during the EUSWE 2025.
For the next period follow-up meetings with DigiBUILD, easySRI, CHRONICLE will be scheduled.
The main objective is to identify common topics on standardization activities and to plan and collaborate for the 2nd webinar, in M34 to inform the key stakeholders on the project's main results, continue the dialogue and enhance exploitation.

Conclusions

This deliverable summarizes the communication and dissemination activities from M13-M24 and provides an overview of planned actions for the project's third year. As the leader of WP4, DIGI will continue to manage and oversee these tasks, ensuring that the channels, tools, and materials developed earlier are actively maintained and evolved.