



**Building Performance Digitalisation
and Dynamic Logbooks
for Future Value-Driven Services**

**Deliverable 6.1 update 2025
CHRONICLE Project Outreach
Plan & Activities**



**Funded by
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Abbreviations and Acronyms

TERM	DESCRIPTION
AEC	Architecture, Engineering and Construction
CA	Consortium Agreement
DCM	Dissemination & Communication Manager
DoA	Description of Action
EC	European Commission
EM	Exploitation Manager
ESCO	Energy Service Company
F2F	Face to Face
FM	Facilities Management
GA	General Assembly
H2020	Horizon 2020
HEU	Horizon Europe
ICT	Information and Communication Technologies
PC	Project Coordinator
PM	Pilot Manager
PMO	Project Management Office
PO	Project Officer
R&I	Research and Innovation
SME	Small and Medium Enterprises
SoMe	Social Media
SRI	Smart Readiness Level
STM	Scientific & Technical Manager
TL	Task Leader
TRL	Technology Readiness Level

Executive Summary

This document presents CHRONICLE's Communication and Dissemination Plan. It is the final version of D6.1 Project Outreach Plan & Activities, providing the achievements of WP6 throughout the whole project.

The document encompasses:

- The C&D methodology, e.g. information about internal communication
- The objectives, goals and strategies for communication and dissemination
- An overview of relevant stakeholders for C&D
- The C&D channels used such as website, newsletter and SoMe
- Information about publications and open access repositories
- Project branding, such as the logo, templates, illustrations, video etc.
- The undertaken C&D activities within the Living Labs
- Collaboration and synergies with other relevant projects
- The KPI achievements to measure the impact of the C&D efforts
- Problems, deviations and resolutions
- The time plan for the last year of the project

1. Introduction

This document presents CHRONICLE's Communication and Dissemination Plan. It is the final version of D6.1 Project Outreach Plan & Activities, to provide the last update on C&D activities and KPIs. While encompassing all the general project branding information, there is new information about:

- the brochure of the CHRONICLE solutions, published in print and as a digital flipbook on the website, p. 25
- update of activities with Sister Projects in the final year, p. 64
- the final KPI achievements, p. 67

1.1. Scope and Objectives of the Deliverable

This deliverable develops and documents the Project Outreach Plan & Activities that will deliver the objectives of WP6 and monitor and report performance against this plan.

This document will outline the activities that CHRONICLE will undertake to:

- raise awareness
- inform and engage stakeholders and end users
- promote the project and its results, achievements and insights
- set the basis for collaboration with other projects

1.2. Structure of the Deliverable

The document encompasses the following topics:

Section 1 Introduction introduces the scope of the Outreach Plan & Activities and relation to other work packages.

Section 2 Methodology outlines the original methodology with some small changes, focusing primarily on the coordination and execution of C&D.

Section 3 Communication and Dissemination Plan presents the plan and achievements for all the communication channels.

Section 4 Branding and Visual Identity demonstrates the visual design and branding for CHRONICLE.

Section 5 Living Labs, Co-Design and End User Engagement provides an overview of the work done by the Living Labs which engage end-users at the pilot sites.

Section 6 Synergies with Relevant Projects and Initiatives has information about CHRONICLE's networks and sister projects.

Section 7 Measuring Impact has a section on KPI's and explains the encountered problems and resolutions.

Sections 8 Time Plan and 9 References has remained as in the previous version.

1.3. Relation to other Tasks and Deliverables

The Outreach Plan & Activities draws information from all the other tasks and provides the global coherence and structure required for appropriate C&D activities. All tasks and deliverables within the project will be monitored to provide input to updated versions of this deliverable, regarding:

- partner activities promoting project results and achievements in public fora
- public awareness and stakeholder engagement documents, aiming at evaluating the impact reached through CHRONICLE communication

2. Methodology

2.1. Partners' Responsibilities

The WP6 leader, RINA-C, presides over communication in the CHRONICLE project and oversees the coordinating of the communication activities.

The Communication working group, who plan the concrete execution of the communication tasks consists of: CIRCE, RINA-C, EGC, SIN and UNE.

The D6.1 Outreach Plan & Activities is led by EGC in cooperation with the other WP6 partners.

Quality Assurance, supervising all communication and dissemination, ensuring that all the activities are appropriate and effective, will be performed by assigned reviewers.

Partners with expert knowledge will be involved in the communication when relevant.

2.2. Internal Coordination

All partners will be regularly informed about the Project Outreach Plan & Activities and any other relevant issues to obtain maximum transparency. All the documents will be made available on SharePoint. In addition, direct transmission of information to the partners will be used where appropriate. Meeting calls between WP6 leader and task leaders takes place every two weeks on Wednesdays, to monitor the progress of the tasks, to inform each other of C&D activities, and to timely detect any problems.

2.3. Plan Approval

Wide scope changes to the plan, derived from feedback, must be discussed and approved at consortium level, in the context of GA meetings, whereas small changes on particular items within the communication activities can be directly handled by the WP6 leader and the related partners involved in the activities. The Plan is approved at the General Assembly with the representation of all partners in the project.

2.4. Execution Plan

All partners participated in the implementation of the Project Outreach Plan & Activities. This document specifies which partners are responsible for each type of activity.

2.5. Updates to the Outreach Plan & Activities

The plan has been updated once a year, to coincide with the reporting periods.

2.6. Mailing Lists

To facilitate internal communications, EGC has set up a centralised mailing list system to make large mailing within the consortium more efficient and error-proof. We have mailing lists in use for the whole consortium, for each individual work package, for C&D reps from each partner, and for the Living Labs:

consortium@chronicle-project.eu

dissemination@chronicle-project.eu

livinglabs@chronicle-project.eu

wp1@chronicle-project.eu

wp2@chronicle-project.eu

wp3@chronicle-project.eu

wp4@chronicle-project.eu

wp5@chronicle-project.eu

wp6@chronicle-project.eu

wp6team@chronicle-project.eu

2.7. Events Form

EGC has created an [online form](#) that partners can use to send news about their events to the communications team. This 'Submission of News Items' form asks partners to provide written content about their activities, which can be readily used for the website and social media channels. It is also requested to send visual documentation by email to the C&D team at EGC.

3. Communication and Dissemination Plan

3.1. Objectives

In CHRONICLE, the core purpose of communication and dissemination is to:

1. Raise awareness, understanding and interest about the scope, objectives, and results of the project.
2. Address all the stakeholders of the project with specific and valuable knowledge and solutions.
3. Engage the stakeholders and encourage them to adopt and implement the project results.

3.2. Message

The following project information will be communicated to the relevant audience:

- Vision (objectives, strategic relevance)
- News (achievements and results)
- Events (Living Lab's activities, partners' participation in external events)
- Results (CHRONICLE solutions)

3.3. Stakeholders

The CHRONICLE communication and dissemination activities aim to reach relevant stakeholders to engage and adopt the project results. This section provides a short overview of the key stakeholders, with more in-depth information provided in chapter 5 'Living Labs, Co-Design and End User Engagement'.

There are four groups of stakeholders relevant for the CHRONICLE project, each with a different goal and using different channels of communication.

3.3.1. Professional Stakeholders

This group of stakeholders consists of:

- facility managers (FMs)
- energy service companies (ESCOs)
- architecture, engineering and construction professionals (AEC)
- building owners and investors

This audience received more technical briefings about the CHRONICLE solutions including survey invitations, project progress and targeted information relevant to their field of expertise. Professional stakeholders might use the website and receive news through LinkedIn and by subscribing to the newsletter.

The consortium has created a database with 217 external professional stakeholders, who were invited to sign up for the CHRONICLE newsletter and who received the (digital) brochure with the overview of CHRONICLE tools and solutions. The partners mainly responsible for involving professional stakeholders were pilot partners, CIRCE, Hypertech, RINA-C, EGC, and technology partners who want to build their network and establish relevant partnerships.

3.3.2. Professional Community and Networks

This group consists of the R&I sector, as well as sister projects and EU projects networks (the latter is covered in more detail in chapter 6 'Synergies with Relevant Projects and Initiatives'). The main aim of reaching out to this target audience is to engage in mutual learning and create synergies between similar R&I activities.

Communication activities include presentations, info sessions, webinars and workshops organised by CHRONICLE. It also included participation in standardisation working groups related to digitalisation, sustainability assessment, and energy efficiency in buildings, to gather information about the state of the art and disseminate the results of CHRONICLE. A dedicated standardisation workshop spearheaded by CHRONICLE developed CWA 18304 "Guidelines to establish the carbon bill of the refurbishment of buildings", published and available for free download at the [CWA portal of CEN/CENELEC website](#). See D6.3 for more information related to standardisation activities. All partners were involved in engaging with this target group.

3.3.3. Building Residents at the Pilot Sites

Residents are experts on their lived experience and can provide real-life feedback to the development of some of the CHRONICLE solutions. Reaching and engaging this group was important to gain end-user perspective. Communication with residents included information about the project goal, progress on the renovation of their building, and invitations to participate in surveys and feedback sessions. It also addressed the concerns of this stakeholder group directly.

Communication materials included leaflets specifically adjusted to non-professional audiences, personal contact and follow up, newsletters and/or printed letters produced by the local pilot site partners, as well as engagement and co-creation workshops. The use of local languages was considered wherever necessary. The main partners involved in communications with building residents were SIN and the pilot site partners.

3.3.4. Public Authorities

Results of CHRONICLE related to policy and standardisation to enable the wider adoption of project results were communicated with relevant national bodies and agencies, such as standardisation bodies. Public authorities could also participate as local partners in the CHRONICLE demonstration countries and could receive project information relevant to their sector of operation. The partners involved in these communications were UNE and SIN. See D6.4 for more information related to policies in CHRONICLE.

3.4. Communication Channels

This section outlines the communication platforms and channels that are being used for communications. These align with the previously stated stakeholders as follows:

Table 1: Stakeholders and communication channel matching

Communication	Stakeholders			
	AEC stakeholders	Owners & tenants	ESCOs & FMs	Authorities & Standardisation
Project Documentation – leaflet, poster, PPT	X	X	X	
Project Publications – Newsletter, articles, video	X	X	X	X
LinkedIn	X		X	X
Events – training sessions, external events	X	X	X	

3.4.1. Project Website

The website was launched in January 2023 and has undergone large changes during July and August of 2023. Throughout 2024, it has been continually updated with news items, published resources and articles. A project video was added in August 2024.

At the end of the project, the website had a major update, with the addition of project documentation materials such as deliverables, videos and a flip-through digital brochure of the CHRONICLE tools to showcase the outcomes of the project.

3.4.2. Project Newsletter

EGC set up the project newsletter in June 2024 (M24) and has sent out three newsletters to professional stakeholders (see [newsletter archive](#)):

11/18/2025 'How to bring the building sector to the next level? Learn about new Tools, Strategies and Standardisation': newsletter about the CHRONICLE final event, other upcoming events and the development of the CEN Workshop Agreement

10/30/2025 'Discover our solutions for the building sector in the brochure, publications and at Enlit': newsletter about the final event's workshops, the tools brochure and recent publications.

06/27/2024 'New digital tools for the building sector & survey results' (see image 1): newsletter about the tools which are being developed, results from the survey with a link to the report 'Digital transformation in the building sector: Insights from the CHRONICLE B2B survey', and upcoming events.

Image 1: Project newsletter sent out on 27.06.2024

[View this email in your browser](#)

CHRONICLE

Are you a professional working in the building sector and keen on having better tools to manage building performance more efficiently?

Great, because we are working on that!

In the EU-funded CHRONICLE project, we are developing a set of digital tools for building management and renovation planning. In this email, we would like to share with you some insights that might be relevant for your work, with the hope that our digital tools will be part of your toolbox soon.

Did you participate in our survey last year, about your views on digital tools for building performance monitoring and renovation planning? If so, here are the results...

Survey Results

What do building professionals think about the digital tools they currently use in their work, and what do they wish to have in the future? We asked over 100 industry professionals, from various European countries and with diverse expertise, for their opinion. In this short article, we present our findings:

'Digital transformation in the building sector: Insights from the CHRONICLE B2B survey'

[Read article](#)

CHRONICLE Tools

The project is half way through, and we are well on the way in developing the following digital tools:

- ✓ A DIGITAL BUILDING LOGBOOK
- ✓ THE CHRONICLE DIGITAL TWIN FRAMEWORK
- ✓ THE RENOVATION PLANNER
- ✓ AN INVESTMENT APPRAISER
- ✓ A PERFORMANCE EVALUATOR
- ✓ THE CHRONICLE COMMON DATA ENVIRONMENT
- ✓ CHROVIEWFM (3D VISUALIZATION & MONITORING PLATFORM FOR FACILITY MANAGERS)
- ✓ CHROVIEWPLUS (APP FOR PROFESSIONALS)
- ✓ CHROVIEWOCC (APP FOR RESIDENTS)

Are you curious to find out what you will be able to do with these tools?

[Explore Tools](#)

The digital tools are being developed for the following professionals:

- FACILITY MANAGERS
- ENERGY SERVICE COMPANIES
- PROFESSIONALS IN ARCHITECTURE, ENGINEERING AND CONSTRUCTION
- OWNERS
- INVESTORS
- RESIDENTS

Would you like to know which tools will be useful for you?

[Explore Users](#)

News & Events

May - CINEA buildings cluster meeting
The CHRONICLE Project was presented at a buildings cluster meeting organised by the European Climate, Infrastructure and Environment Executive Agency (CINEA) on 21-22 May. CINEA's mission is to support stakeholders in delivering the European Green Deal through high-quality programme management.

June - European Sustainable Energy Week 2024
CHRONICLE was presented as part of the Next Gen EPC cluster's session at the European Sustainable Energy Week 2024 (EUSEW). In the policy session, we addressed the EU-wide transposition and practical implementation challenges of the EPBD Recast.

September - Sustainable Places 2024
Sustainable Places (SP) is Europe's number 1 destination for EU research collaboration and market opportunities. We will be part of the Building Renovation Workshop 'Unlocking the Renovation Wave: Deep-renovation solutions developed by EU-funded projects'. This hybrid event takes place in-person in Luxembourg on 23-25 Sept.

Find out more about all our events and activities:

[Events](#)

Our CHRONICLE partners are actively participating in large international events to connect and collaborate with other projects and industry towards a more sustainable future!

Do you know other building professionals who might be interested in receiving updates about our project and digital solutions? [Please forward this email!](#)

[In](#) [T](#)

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3.4.3. Social Media: LinkedIn

LinkedIn is the most popular professional social network today and has proven to be one of the most effective channels for expanding a business network. For EU funded projects, LinkedIn has shown to be an essential platform for reaching a wider audience, enhancing visibility, and fostering collaboration with other projects and organisations.

The [CHRONICLE LinkedIn page](#) was created on Wednesday 7 December 2022 and has gained 390 followers since then (data accessed on 13 February 2026: [linkedin.com/company/chronicle-heurope](https://www.linkedin.com/company/chronicle-heurope)).

LinkedIn is actively used by CHRONICLE as a platform to inform and engage a wide range of stakeholders, including industry professionals, the public and key partners, about the ongoing activities and developments related to the project. By sharing regular updates, news, and insights, LinkedIn serves as a vital communication channel to keep all interested parties informed about the project's progress, milestones, and results.

CHRONICLE schedules and publishes between 1 and 2 posts per month. The posts published on the CHRONICLE page on LinkedIn are related to the following content:

- Partner presentations
- News and updates about the project
- Events
- Publication of materials
- News about the sister projects

Image 2: CHRONICLE LinkedIn page, screenshot taken on 13.02.2026



3.4.4. Social Media: X (discontinued)

The consortium initially chose Twitter (now X) as a communication tool for CHRONICLE because it was considered one of the best social media channels for customer engagement. The CHRONICLE X account was created on 7 December 2022 and had 65 followers by the time activity was interrupted on 14 April 2023.

In fact, it was decided to discontinue the use of X for several reasons. Over time, it became evident that the platform was no longer as effective for the project's goals. Additionally, many projects, companies and agencies have also moved away from X due to concerns about its declining influence, changes in its management and the platform's evolving nature, which did not align with the project's communication strategy.

As a result, activity on the account was halted (although the profile remains active, and past posts are still visible), and the project shifted its full focus on LinkedIn.

3.4.5. Social Media: Instagram (discontinued)

Instagram is not widely used for the communication of EU projects, but the consortium decided to try it as an experiment. The target audience on Instagram differs from that on LinkedIn and X, as Instagram is used less for professional engagement and more for general knowledge and curiosity. The CHRONICLE Instagram account was tested in the early months of the project, but during the GA in Dublin on 28 June 2023, it was decided to stop using the Instagram account due to the lack of relevant images for the project (Instagram is primarily an image-sharing platform) and because it was determined that the channel is not significant enough for this project.

As of January 2025, the situation remains unchanged, and the profile has not been reactivated or used again. For the time being, therefore, the LinkedIn page remains and will continue to be the main social media tool for CHRONICLE.

3.5. Social Network profile management and internet dissemination activities

CHRONICLE has developed a social media strategy to effectively communicate the project's key activities, milestones, and impacts while engaging with relevant audiences. The strategy focuses on raising awareness of the project and encouraging interaction, ensuring that all content is aligned with the project's goals and objectives. It seeks consistent communication and interaction with the audience, highlighting the key achievements and milestones of the project.

The primary goal of the social media strategy is to increase awareness, engagement, and visibility for the CHRONICLE project, as well as build a network with the sister projects and other initiatives of interest. This has been achieved by regularly sharing timely updates, events and news, as well as engaging with our audience to keep them informed about the project's progress.

As mentioned in section 3.6, the social media platform for CHRONICLE is LinkedIn. The LinkedIn account is managed by RINA-C with contributions from all partners, while the website of the project is managed by EGC. The posting frequency is one or two posts per month.

One of the pillars for effective communication on social media is the involvement of the consortium. In fact, partner activities and increased visibility are key elements for the

success of the CHRONICLE social media channels. Therefore, all partners were encouraged to:

- Follow the CHRONICLE social media pages with their company profiles (or even their own profiles).
- Actively engage with the publications (like, retweet, share and comment).
- Mention @CHRONICLE on their publications about or related to the project.
- Propose publications to RINA-C and EGC. For example, when a partner writes an interesting news article or report they can send it to RINA-C and EGC to have it formatted in line with the CHRONICLE brand identity.
- Whenever a partner attends an event on behalf of the CHRONICLE consortium, they shall send pictures to RINA-C and EGC and suggest a caption so that they can be published on social media preferably on the same day when the event takes place. If the partner makes a post in their personal account, they should always mention CHRONICLE using the @CHRONICLE handle.

Important events related to the CHRONICLE project may be accompanied with a specific hashtag and partners are encouraged to use it when posting about that event.

Partners use their existing social media pages to boost CHRONICLE's actions.

Partners select the most suitable channels used by them to share content from the CHRONICLE's website and social media pages such as events, project results, relevant insights from public deliverables, fact sheets, brochures, etc.

3.6. Dissemination feedback and evaluation

During the project, there will be a continuous gathering of feedback, enhancing the Outreach Plan & Activities accordingly. The stakeholders' involvement in the project is expected to provide valuable feedback, which should be effectively assessed by the consortium. The feedback nature can be categorised as follows:

Automatically generated feedback:

This is the case for CHRONICLE's website and the SoMe accounts. It can be used to discover the profile of potential clients and/or partners. The website and SoMe are the main communication channels established by CHRONICLE, as it provides external visibility and contains detailed information about the project goals, scope, progress and partners.

Human generated feedback:

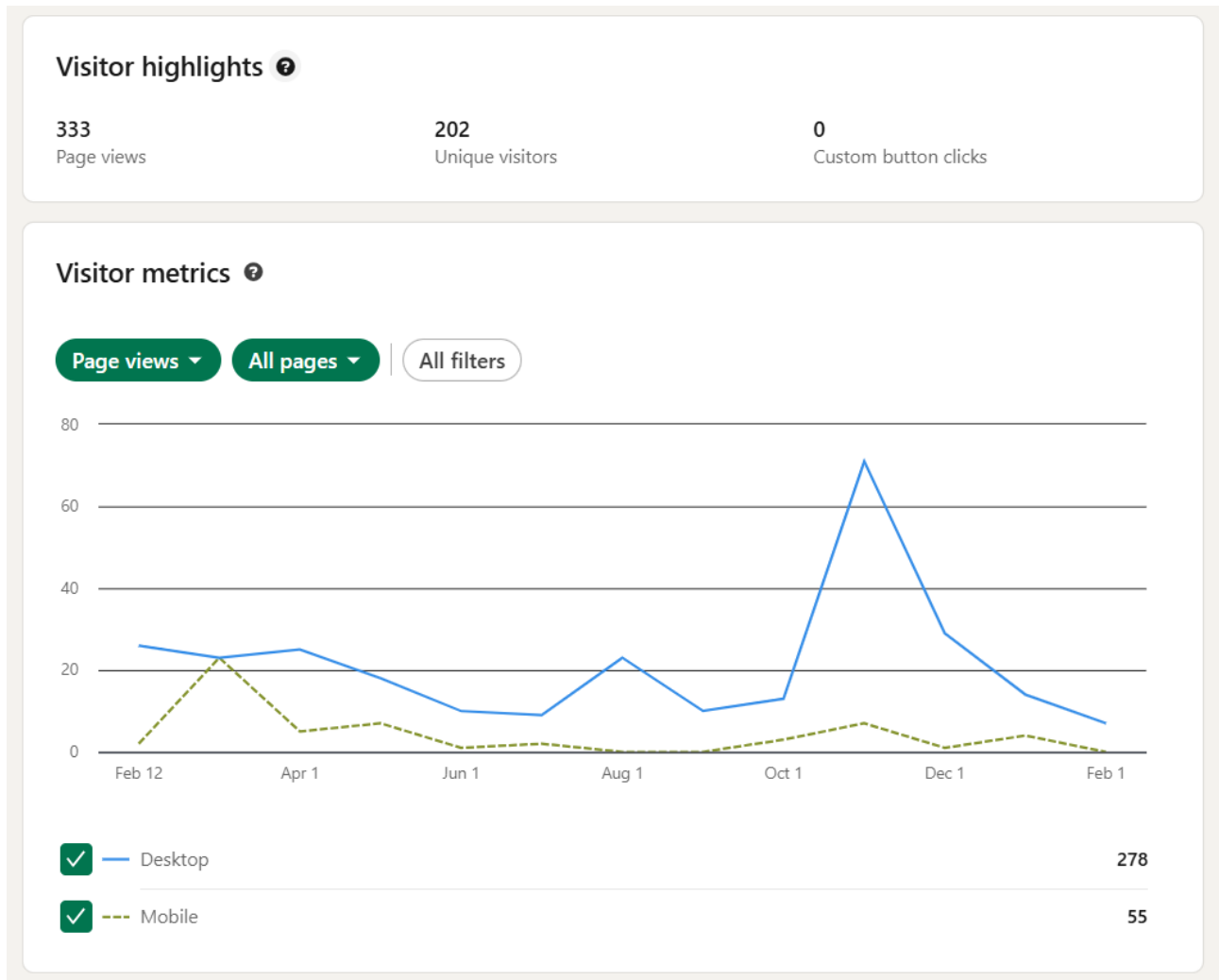
Into this category it is possible to differentiate between person-to-person feedback. Collecting feedback based on the reaction of people when delivering CHRONICLE's messages on F2F meetings and events. Questionnaires can be used to assess the interest raised in a particular audience.

To measure the impact of all dissemination activities, automatically generated feedback will be tracked across each platform. The aim is to optimise outreach and engagement,

awareness. Analytics tools such as Google Analytics, LinkedIn Analytics and Google Search Console will be used to analyse the performance of activities. An easy-to-use online tool has been deployed to record all dissemination and cooperation activities and summarise impact. This is reviewed regularly.

Here is an example of LinkedIn analytics so far:

Image 3: LinkedIn Google analytics from 12.02.2025 to 11.02.2026



We actively analyse and record participation numbers at events, feedback and engagement on social media, and overall communication activity results in the CHRONICLE C&D tracking file. This document captures the results of all activities, allowing us to organise and review the feedback systematically. This process helps us understand the impact of each event and identify areas for improvement. Additionally, we track key performance indicators to ensure that our activities align with the project goals.

The C&D tracking file is updated with communication activities, dissemination efforts, and publications. Consortium members are asked to fill in the table with the events they participate in, the activities carried out, the target audience, and the outcomes. The CHRONICLE communication team is informed in advance to ensure proper visibility of the

action. Similarly, partners are also responsible for updating the list of scientific publications related to the project. Social media post tracking is managed by RINA-C.

Regular tracking of joint activities helps us maintain coordination and understand the types of synergies created and how they are being exploited. Statistics on the impact of events on the project are closely monitored and used to improve future communication efforts.

3.7. Publications

The KPI for publication is 3 articles per year. This appears to be an unrealistic goal, because the project outcomes can only be published at a more advanced stage of the project. The partners have therefore several articles planned or under review at the end of the project.

Published articles:

Alonso, R., Olivadese, R., Ibba, A., & Reforgiato Recupero, D. (2023). Towards the definition of a European Digital Building Logbook: A survey. *Heliyon*, Volume 9, Issue 9. doi.org/10.1016/j.heliyon.2023.e19285

Aragón Basabe, A., Acquier, M., Tokdemir, O. B., Enfedaque, A., García Alberti, M., Lieval, F., Loscos, E., Muñoz Pavón, R., Novischi, D. M., Legazpi, P. V., & Yagüe Hernan, A. (2025). Seeking a Definition of Digital Twins for Construction and Infrastructure Management. Zenodo. doi.org/10.3390/app15031557

Aragón Basabe, A., Spudys, P., Pupeikis, D., Nieto Sanz, O., & García Alberti, M. (2025). Bridging Interoperability Gaps Between LCA and BIM: Analysis of Limitations for the Integration of EPD Data in IFC. *Buildings*, Special Issue Research on BIM—Integrated Construction Operation Simulation, 15(15), 2760. doi.org/10.3390/buildings15152760

Andrea Ibba, Sun Ah Hwang, Diego Reforgiato Recupero, Rubén Alonso, Rosamaria Olivadese (2024). Defining Valuable Data and Stakeholder Engagement in Digital Building Logbooks: A Framework for Effective Data Storage. *Proceedings of the 2024 European Conference on Computing in Construction*. [DOI: 10.35490/EC3.2024.207](https://doi.org/10.35490/EC3.2024.207)

Andrea Ibba, Rubén Alonso, and Diego Reforgiato Recupero (2025). Enabling Natural Language Access to BIM Models with AI and Knowledge Graphs. *Third International Workshop on Semantic Technologies and Deep Learning Models for Scientific, Technical and Legal Data (SemTech4STLD 2025)*.

Articles under review:

Andrea Ibba, Rubén Alonso, and Diego Reforgiato Recupero (planned 2026, currently under review). ASK-BIM: A Knowledge Graph-Powered AI System for Natural Language Querying of BIM Models. Elsevier: *Data & Knowledge Engineering*.

In progress:

Andrea Ibba (planned submission March 2026). PhD Thesis: TBC. University of Cagliari

Aitor Aragón (planned submission March 2026). PhD Thesis: Automating environmental assessment: integration of machine interpretable LCA data into digital product passports and logbooks, and into BIM. Polytechnic University of Madrid. This thesis refers to two scientific papers in which CHRONICLE contributed.

3.8. Open Access Repository

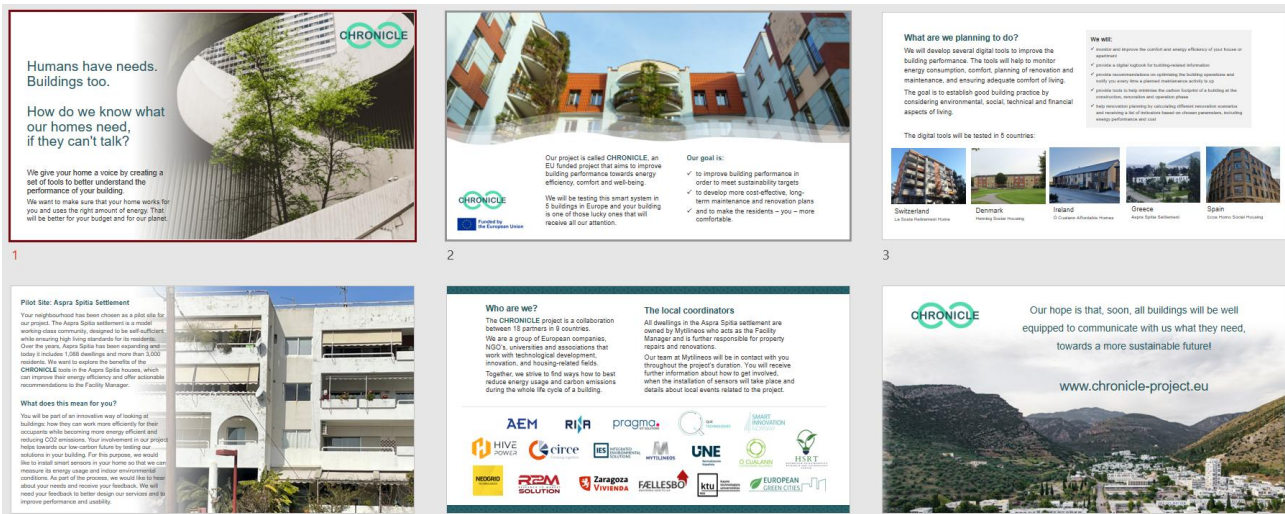
All the deliverables are published open access on the CHRONICLE website (www.chronicle-project.eu/resources) and CORDIS (cordis.europa.eu/project/id/101069722/results). Three published articles have been deposited in the [CHRONICLE Zenodo community](#).

3.9. Brochures

3.9.1. Brochure for Residents

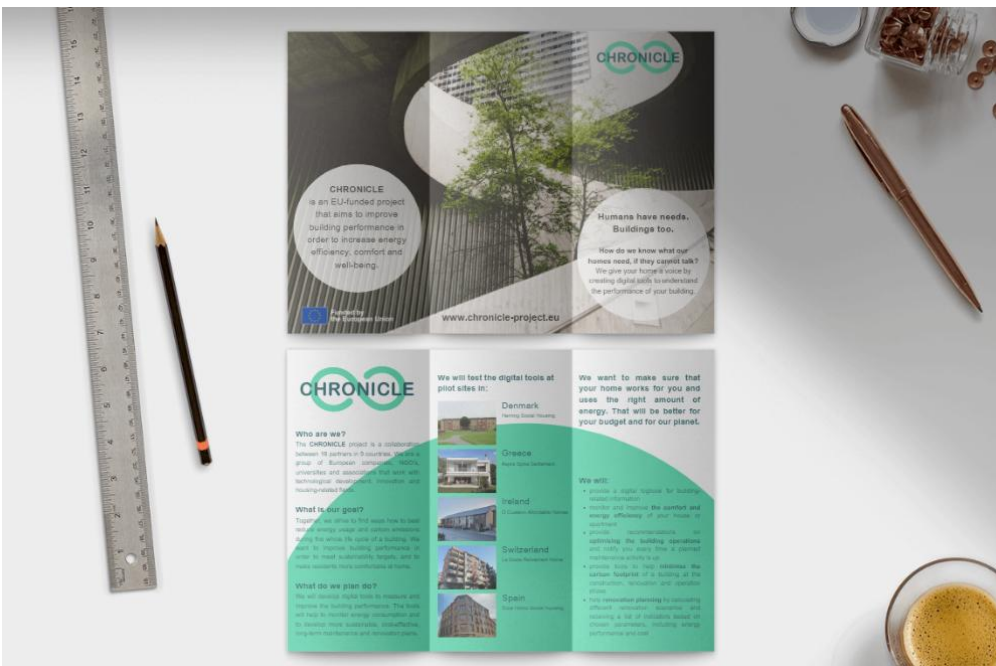
In June 2023, a PDF brochure was published to present the project to the residents at the 5 pilot sites. The brochure is published in English and translated into the local languages by the partners. The content is a short presentation of the objectives of CHRONICLE and information about the particular pilot site that is of relevance to the residents, in order to understand how the project will affect them.

Image 4: PDF brochure for pilot site residents (this version is for residents of Aspra Spitia in Greece)



In July 2023, a printed brochure has been published to be handed out to residents at the pilot sites. This brochure provides general information about the project.

Image 5: Printed brochure for all pilot site residents



3.9.2. Brochure for Professional Stakeholders

The brochure 'New digital tools for the building sector' has been published in November 2025 for the final event of CHRONICLE at Enlit 2025. It provides an overview of all the tools and solutions developed in the project. The brochure is aimed at professionals in the building sector, as defined in 3.3 Stakeholders.

The brochure was printed and is available as a [PDF](#) and a flipbook on the CHRONICLE website: www.chronicle-project.eu/tools.

Image 6: Brochure for professional stakeholders



3.10. Video

In the summer of 2024, CIRCE has produced a project video with the support of EGC. The video is 6 minutes long and the project manager, Leon Nielsen, presents CHRONICLE and the scope of the project. It was decided to produce the video in-house, because there had not been a budget set aside for video production (estimated at 3000 EUR for a 5 min. video, based on a quote received from an external supplier).

Image 7: Screenshot of project video



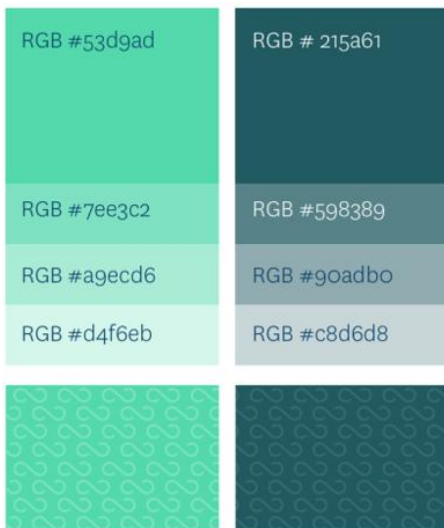
The video has been uploaded on [YouTube](#) and it is embedded on the landing page of the project website.

4. Branding and Visual Identity

4.1. Colour Palette

The visual design for the project uses the following two colours:

Image 8: The two project colours



4.2. Logo

The CHRONICLE logo aims at presenting an eye-catching emblem, which is including the project acronym and the symbol for eternity, because CHRONICLE is a solution for the past (existing buildings), the present (digitalisation) and the future (value driven services). The result is the logo shown below:

Image 9: Project logo



The logo will be used in combination with the European emblem to indicate the EC financial support:

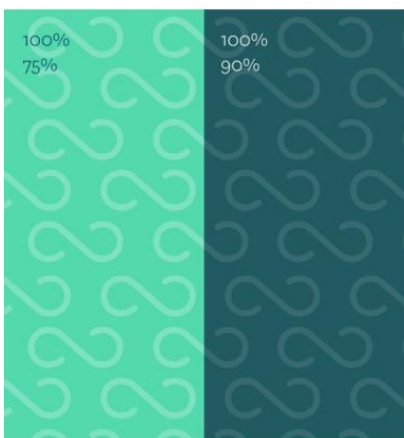
Image 10: EU logo



4.3. Graphic Element

To supplement the visual design, a graphic element consisting of the logo symbol is added. This can be used as a background pattern.

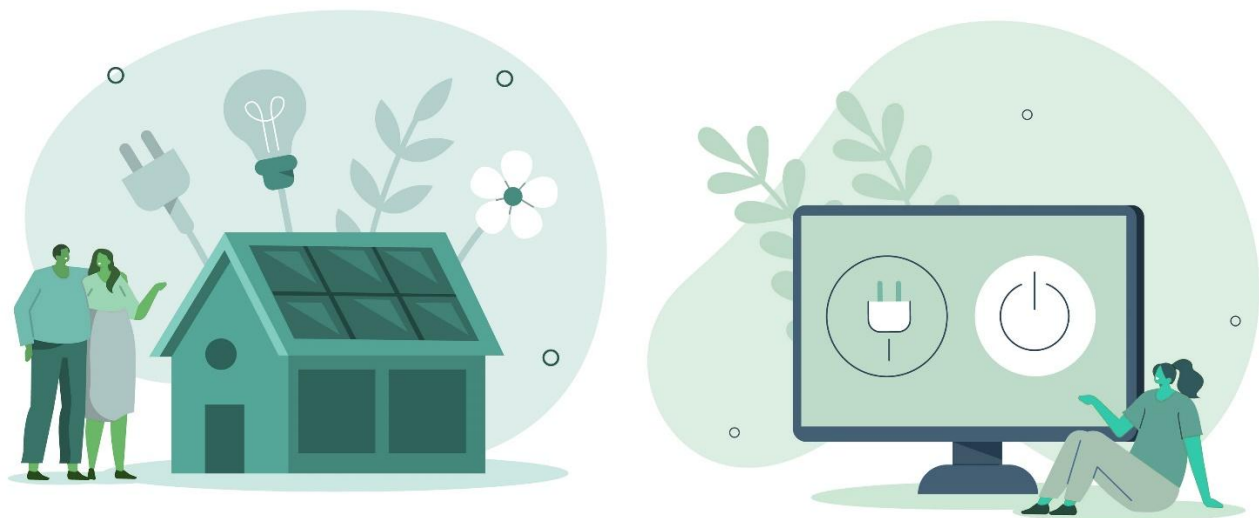
Image 11: Background patterns



4.4. Illustrations

We are using illustrations by Irina Strelnikova, bought from Shutterstock and further edited with the colour scheme of CHRONICLE.

Image 12: illustrations by Irina Strelnikova, from Shutterstock



4.5. Templates

Image 13: Word template for deliverables

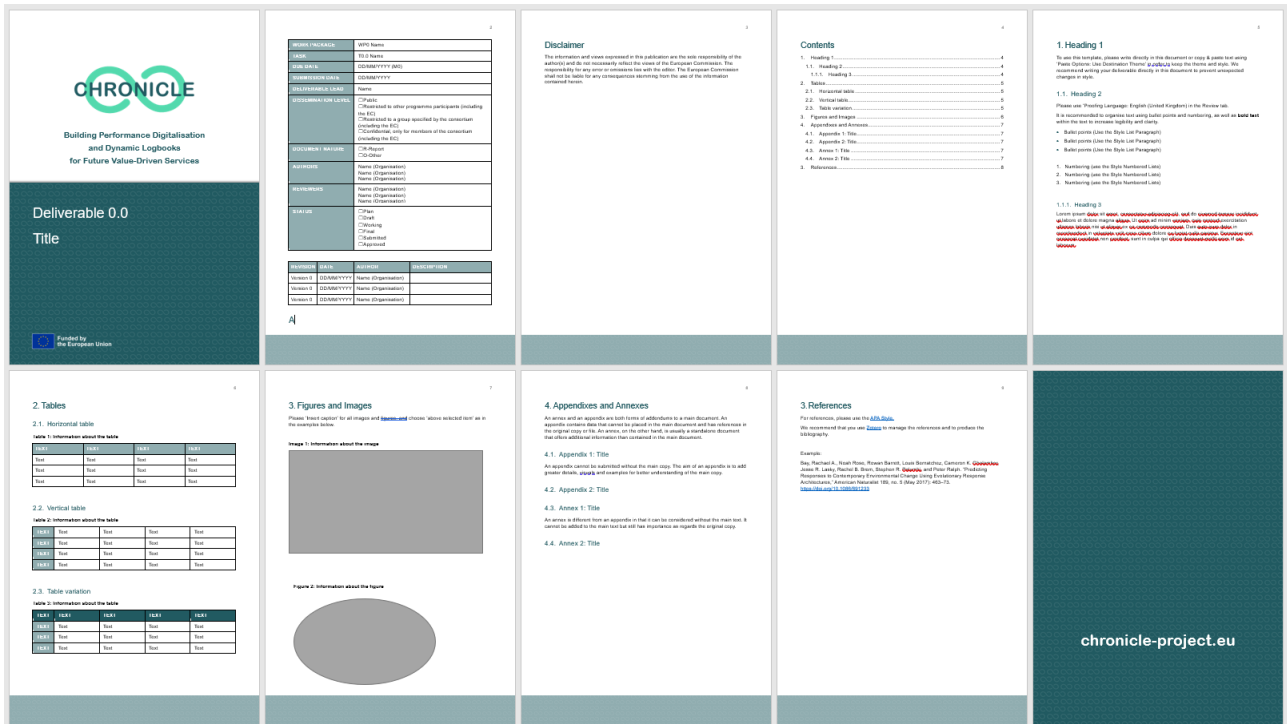
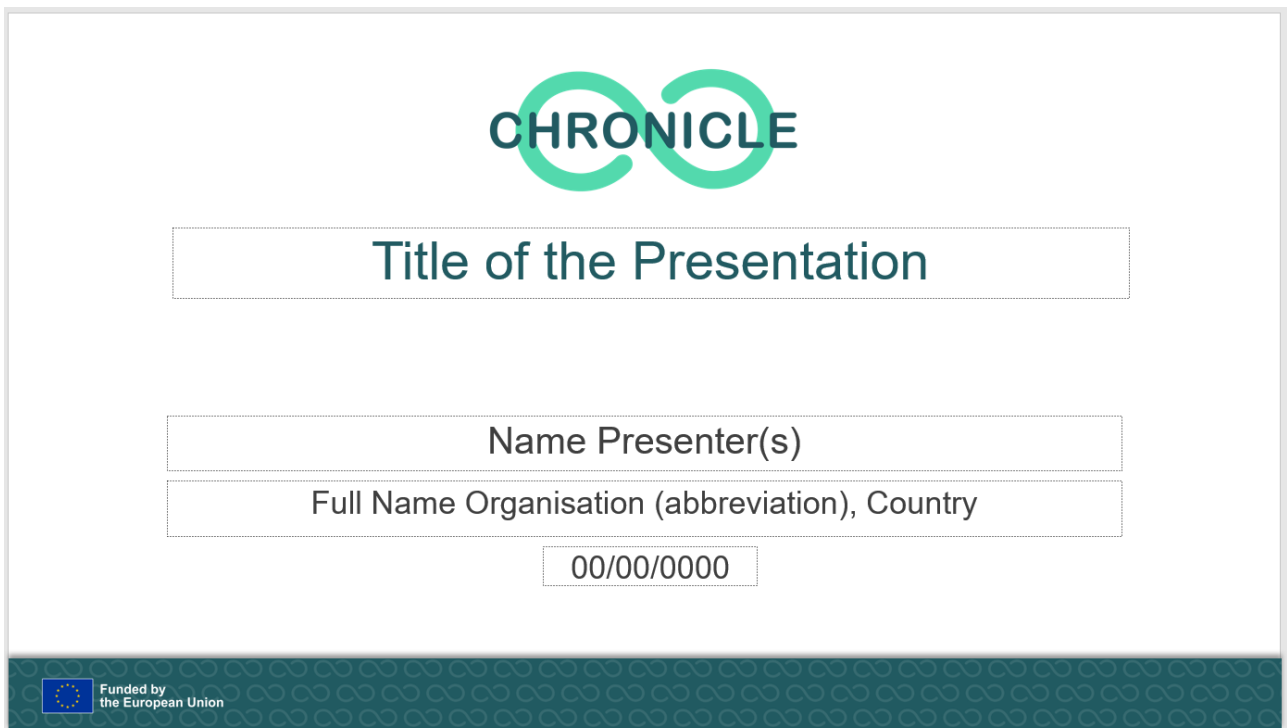


Image 14: PowerPoint template for presentations



5. Living Labs, Co-Design and End User Engagement

Living Lab (LL) and co-design activities within CHRONICLE are crosscutting to most CHRONICLE work packages and will be coordinated under task 6.2 within WP6. The overall LL plan was presented in the first version of D6.1., yet due to the close relationship with the WP5 and the project piloting activities, the implementation of the LL plan is mostly reported in the different versions of the D5.1 within WP5. However, the stakeholder mapping, described in T6.2 forms an exception by being an activity explicitly described in the T6.2.

The value of user engagement has been recognised in CHRONICLE, and the core objectives include the engagement, inclusion, and empowerment of local citizens and stakeholders. More specifically, the citizen engagement and co-creation strategy aims to:

- Understand citizen values, triggers, and points of resistance
- Bring together local pilot stakeholders to anticipate and overcome potential friction points
- Understand resident views on key issues (e.g. requirements for participation in pilot activities, expectations of the CHRONICLE solution)
- User centric and co-designed innovations (UI/UX and content personalisation)
- Training and support before, during, and after validation activities

To inform effective implementation of the citizen engagement and co-creation strategy, a stakeholder mapping exercise was conducted to understand better the types of stakeholders present at the CHRONICLE LLs. The results of the exercise are presented in the below section.

5.1. Stakeholder Mapping and Analysis

This chapter will present the stakeholder analysis and mapping of the five Living Labs of the CHRONICLE project. In contrast to chapter 3.3 which presents the CHRONICLE target audiences for dissemination, the goal of the stakeholder mapping is to map out and understand the relevant stakeholders at the Living Labs, as well as to analyse the drivers and barriers in each Living Lab related to stakeholder engagement to enable the development of relevant, and customised engagement interventions to support each Living Lab. In addition, the insights emerging from the analysis will provide valuable feedback to the development of the CHRONICLE tools, especially at the testing and validation phases.

A stakeholder can be understood as an entity or organisation who has interest to the project or your organisation and can either affect or be affected by the project. These may include employees, other businesses, building tenants, relevant authorities and financing bodies, just to mention a few.

Stakeholders may be relevant in different ways, such as providing input and feedback, fostering project activities, or generating an enabling environment to advance your local goals. A stakeholder can also have a negative impact on your project.

The table below presents a high-level categorisation of the potential stakeholders in the CHRONICLE LLs, previously discussed in this document.

Table 2: High-level categorisation of potential stakeholders in the Living Labs

Stakeholders	
Project affiliation	<ul style="list-style-type: none"> • Internal • External
Categories	<ul style="list-style-type: none"> • Architects, engineers, and constructors (AECs) • Energy service companies (ESCOs) • Facility managers (FM), building manager • Building owners • Building residents/ tenants • Public authorities and standardizing bodies

Stakeholder engagement, on the other hand, refers to the relationships and interaction with the potential stakeholders. One of the most commonly used definitions for stakeholder engagement is to see it as “the practices that the organisation undertakes to involve stakeholders in a positive manner in organisational activities” (Greenwood, 2007, pp. 317-318). This can be further complemented with the notion of stakeholder collaboration, looking at means to pursue goals that would otherwise be difficult to achieve internally (Desai, 2018).

Stakeholder engagement is essential for innovation, as it is through collaboration and stakeholder feedback that we can define and develop innovations that have future real-life applicability. Hence, engaging local stakeholders to the project and the development of the solutions in a meaningful manner will help to enhance the results.

One of CHRONICLE’s core ambitions is to deliver actionable information to ensure clarity, ease of use, comparability, and consistency for all involved in the building value chain. Different use groups will enjoy appropriately tailored comprehensive and intuitive information. For instance, it will allow ESCOs, facility managers, and building owners to identify inefficiencies, optimise investments, renovation and operational strategies, and receive alerts related to building performance degradation. Building occupants will be able to intuitively visualise their impact on building performance in a personalised and comparable manner. Feedback to building occupants will not be technical or generic; instead, it will be actionable consisting of timely, personalised, and relevant information towards more sustainable behaviours.

As an important step for stakeholder engagement, this document seeks to map the relevant stakeholders at each CHRONICLE Living Lab, and to offer high level ideas for their engagement.

5.2. Methodology

The objective of the stakeholder mapping within the CHRONICLE Living Labs was to identify the key stakeholders involved and analyse how these stakeholders interact to achieve the project's goals.

The stakeholder mapping is helpful to understand which stakeholders can be considered active (directly using the CHRONICLE solutions) versus passive (being impacted by the application of the CHRONICLE solutions, but not using them first hand), the interconnections (or lack thereof) between them, and the barriers and drivers that influence behaviours and decision making. Indeed, the exercise aimed at gathering insights to provide strategic advice on stakeholder engagement and to ensure the services developed in the CHRONICLE project are well-adjusted to the needs of various end-users.

The stakeholder mapping was conducted through interviews with the relevant Living Lab partners. During the interview, the pilot's goals, stakeholders, and their interactions were discussed, followed by a stakeholder analysis in a Miro board to visually map out and prioritise stakeholder interests and influences. This analysis was conducted to plan effective engagement strategies and to understand the broader social and behavioural context of the project.

An interest-influence matrix was utilised to map the stakeholders (as an example of the matrix, see for example **Error! Reference source not found.** in the next chapter). Based on the location of a stakeholder in the matrix, a categorisation for four types of approaches was created to inform the formation of the stakeholder engagement strategy.

Table 3: Engagement approaches based on the influence-interest matrix

Keep satisfied – high influence, low interest	Engage & Consult – high influence, high interest
Monitor – low influence, low interest	Keep informed – low influence, high interest

5.2.1. Irish Living Lab

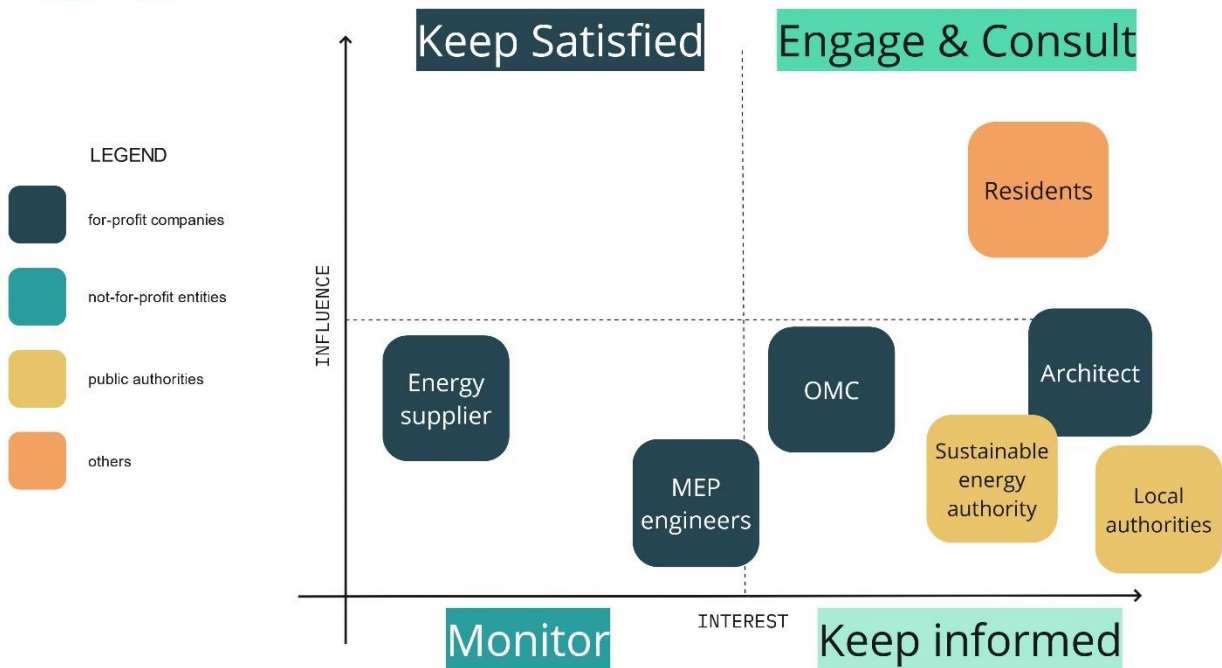
The Irish Living Lab focuses on ensuring that newly built homes operate in a manner that matches their A2 energy rating. The pilot aims to empower homeowners with the information and tools necessary to manage their energy consumption effectively, thereby reducing energy usage and costs. Key goals include validating that homes meet energy efficiency standards, promoting the success of the pilot to support future housing policies, and managing energy costs for communal areas. Stakeholders such as the Sustainable Energy Authority, architects, MEP engineers, local authorities, and the Operations Management Company are involved to ensure design effectiveness, regulatory compliance, and successful project outcomes. The Living Lab also emphasises the importance of effective communication and collaboration among all parties involved to achieve these objectives.

The main challenges with stakeholders in the Irish pilot include ensuring homeowners have the information and tools to operate their homes efficiently to match the A2 energy

rating and managing their expectations and patience during installations and updates. There is also a significant challenge with energy suppliers who show little interest in cooperating or providing detailed usage data, which limits the project's ability to optimize energy management. Additionally, coordinating with various stakeholders such as architects, MEP engineers, and local authorities to align their interests and ensure their involvement throughout the project can be complex. Ensuring effective communication and engagement with all stakeholders, particularly given the varied interests and influences of each group, remains a critical challenge.

The main incentives for stakeholders in the Irish Living Lab include reduced energy costs and improved home comfort for homeowners, validation of energy efficiency practices for the Sustainable Energy Authority, and recognition and enhancement of sustainable design practices for architects and MEP engineers. Local authorities are motivated by the successful outcomes supporting future policies and enhancing their reputation, while the Operations Management Company benefits from effective energy management systems reducing operational costs. Energy suppliers can optimize their energy supply and improve customer satisfaction, and facility managers gain support in managing building systems and improving performance. Construction companies receive positive feedback and recognition, leading in sustainable construction, while residents' associations enhance community satisfaction through regular updates and effective communication. These incentives align stakeholders towards the common goal of achieving and maintaining high energy efficiency standards in the pilot homes.

Figure 1: Stakeholder mapping Irish LL



Stakeholders were classified based on their estimated position in the stakeholder matrix into the categories presented in Table 4: Stakeholder categories Irish LL below.

Table 4: Stakeholder categories Irish LL

Keep satisfied: No stakeholder concerned	Engage & consult: Residents
Monitor: Energy suppliers, MEP Engineers	Keep informed: OMC, Architects, Sustainable Energy Authority, Local authorities

Furthermore, the potential roles, goals and needs of the stakeholders were analysed, to better understand their role in the local Living Lab. The results are presented in the Table 5 below.

Table 5: Stakeholder analysis Irish LL

STAKEHOLDER	ROLE	GOAL	NEEDS
Residents	Residents of the pilot homes, potential end-users of ChroViewOcc	Operate homes to match A2 energy rating; Reduce energy usage	Information and tools to manage energy consumption; Regular updates on energy usage and savings
Architects	Designers of the pilot homes, designers of future homes, potential end users of ChroViewRen	Ensure homes are designed to meet A2 energy rating	Feedback on design effectiveness; Information on how design impacts energy performance
Local Authorities	Project initiators and policy influencers	Promote success of the pilot; Support future housing policies and projects	Successful project outcomes; Data to influence future policy
Sustainable Energy Authority	Regulator and verifier of energy standards	Validate homes meet A2 energy efficiency rating in real-world usage	Data on home energy performance; Collaboration with project teams
Operations Management Company	Managers of communal areas in apartment complexes, potential	Manage and reduce energy costs for communal areas	Effective energy management systems; Data on communal energy usage

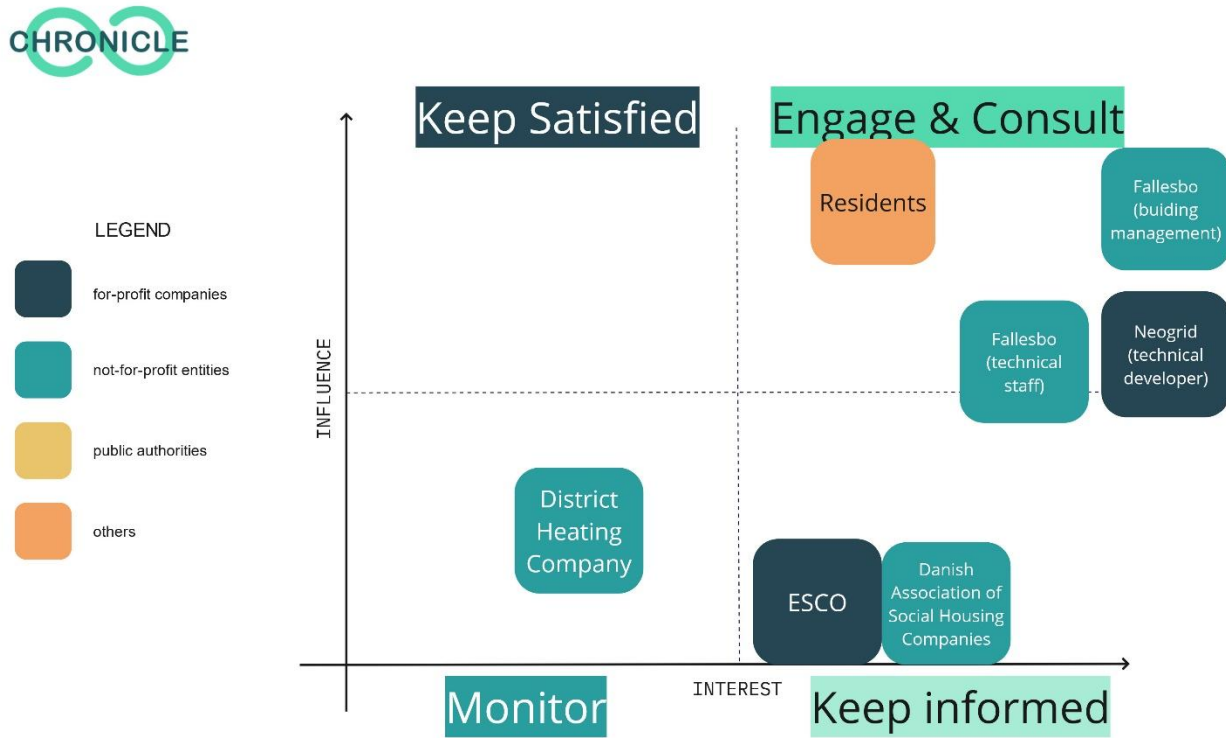
	end-users of ChroViewFM		
MEP Engineers	Mechanical, electrical, and plumbing designers, potential end-users of ChroViewRen	Ensure MEP systems support A2 energy rating	Feedback on system performance; Information on any operational issues
Energy Suppliers	Providers of electricity and gas	Supply energy to homes efficiently	Consumer data to optimize energy supply; Feedback on energy consumption patterns

5.2.2. Danish Living Lab

The Danish pilot aims to achieve both energy savings and economic benefits for tenants in social housing, enhancing comfort and sustainability. The pilot focuses on involving key stakeholders such as architects, engineers, constructors, energy service companies, facility managers, building owners, residents, public authorities, and standardisation bodies.

The project is rooted in a cooperative model where tenants own and manage their buildings democratically, emphasizing the importance of tenant involvement and approval for project success. Key goals include demonstrating effective energy management solutions, achieving economic savings, and replicating these solutions across other social housing units. The pilot also addresses challenges like language barriers among tenants and the need for efficient communication and stakeholder engagement.

Figure 2: Stakeholder mapping Danish LL



Stakeholders identified through the stakeholder mapping exercise were classified based on their estimated position in the stakeholder matrix into the categories presented in the Table 6 below.

Table 6: Stakeholder categories Danish LL

Keep satisfied: No stakeholder concerned	Engage & consult: Residents as tenants and building owners, Fællesbo (social housing operating company), Fællesbo technical staff, Neogrid (project partner, technical developer)
Monitor: District heating company	Keep informed: ESCOs, Danish Association of social housing companies

The potential roles, goals and needs of the stakeholders were further analysed and are presented in the Table 7.

Table 7: Stakeholder analysis Danish LL

STAKEHOLDER	ROLE	GOAL	NEEDS
Residents/building owners	Live in and co-manage the buildings, potential end-users of ChroViewOcc	Improve comfort and reduce energy costs	Clear communication, assurance of comfort and safety, and involvement in decision-making
Fællesbo	Oversee building management and operations, potential end users of ChroViewFM	Maintain building efficiency and tenant satisfaction	Training on new systems, support from technical staff, and regular updates on project progress
Fællesbo technical staff	Implement and maintain technical systems, potential end users of ChroViewFM	Ensure smooth operation of new energy systems and technologies	Training, technical support, and involvement in planning and implementation
Neogrid	Develop the technical solution to manage temperature and comfort in the buildings	Ensure thermal comfort and energy efficiency.	Feedback on the function of the Neogrid solution
ESCO	Provide energy management services	Deliver cost-effective and efficient energy solutions	Access to building data, collaboration with facility managers, and support for implementation
Danish association of social housing	Advocate for social housing interests	Promote successful energy solutions across social housing units	Detailed project reports, success stories, and best practices for replication

District heating company	Supply heating to the buildings, provides access to the main metering for data.	Ensure functionality of their systems	Data access for system optimisation for the project, collaboration with technical staff, and regular updates on project impact on heating system performance
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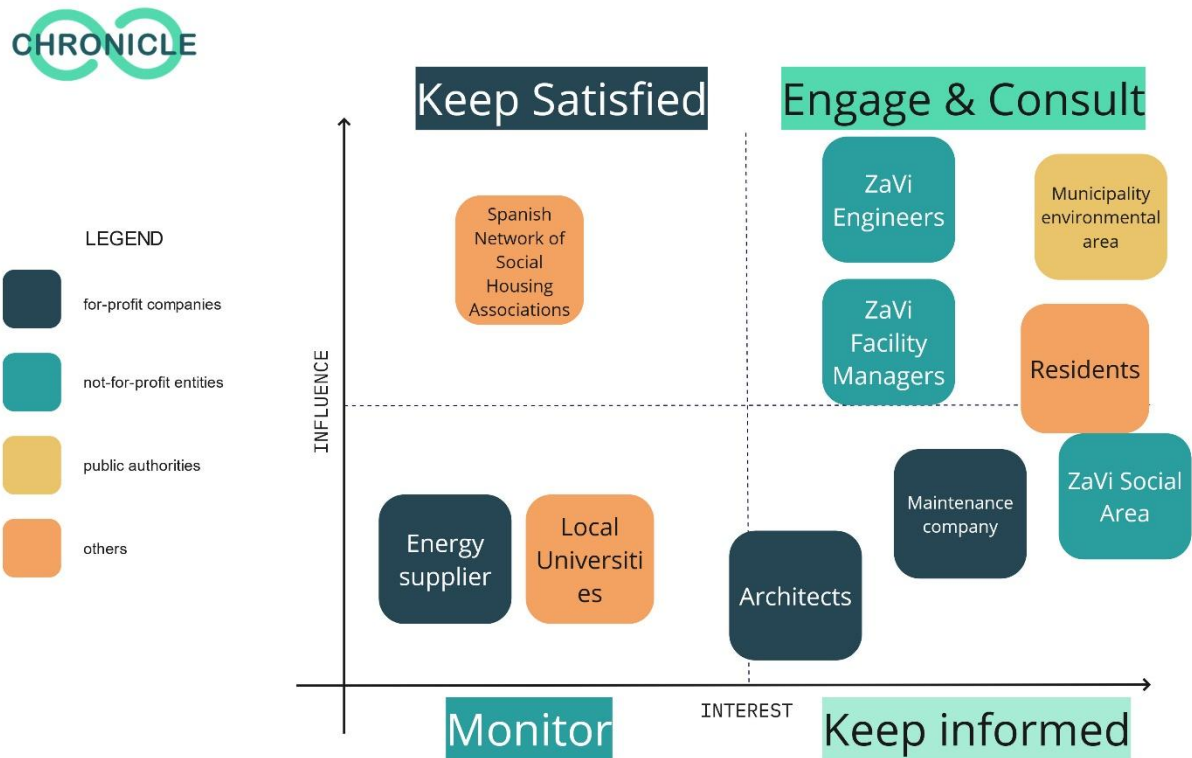
5.2.3. Spanish Living Lab

The Spanish Living Lab aims to improve the quality of life for residents and the energy efficiency of buildings. The pilot focuses on refurbishing a historical building and educating tenants on effective building use. Success will be measured by enhanced building performance, increased tenant comfort, and better knowledge of sustainable living practices. The project's success hinges on adaptive maintenance, effective energy management, and tenant engagement to achieve lasting benefits for the community.

The pilot interacts with various stakeholders to achieve its goals. Key partners include Zaragoza Vivienda, the municipal housing company responsible for the demo site, and its maintenance contractors. The project also collaborates with the municipality's environmental and energy departments to align with broader sustainability goals. Additionally, the pilot engages with social workers who assist tenants, architects and engineers who support refurbishment efforts, and universities that contribute research and innovation. The Spanish network of social housing associations provides broader industry insights, while energy suppliers are consulted to optimize energy use. These interactions ensure comprehensive support for improving building performance and tenant well-being.

The main hurdles of the Spanish Living Lab include the residents' lack of commitment to energy efficiency due to their focus on meeting basic needs, and the high costs associated with digitalizing buildings, which construction companies are hesitant to embrace. Additionally, while social workers aim to improve tenant quality of life, their efforts are sometimes constrained by limited resources and high temperatures in summer. Historical building restrictions complicate the installation of modern amenities like air conditioning. Furthermore, energy suppliers prioritize profit over energy savings, and universities' contributions can be overly theoretical, requiring practical adaptation. These challenges must be navigated to achieve the lab's goals effectively.

Figure 3: Stakeholder mapping Spanish LL



Stakeholders identified through the stakeholder mapping exercise were classified based on their estimated position in the stakeholder matrix into the categories, as presented in the Table 8 below.

Table 8: Stakeholder categories Spanish LL

Keep satisfied: Spanish Network of Social Housing Associations	Engage & consult: Zaragoza Vivienda engineers, Zaragoza Vivienda facility managers, Zaragoza municipality environmental area, Residents
Monitor: Energy supplier, local universities	Keep informed: Zaragoza Vivienda social area, maintenance company, architects

A further analysis was conducted to assess the potential roles, goals and needs of each stakeholder group, presented in Table 9.

Table 9: Stakeholder analysis Spanish LL

STAKEHOLDER	ROLE	GOAL	NEEDS
Engineer	Support refurbishment efforts by providing technical expertise	Ensure successful building refurbishment with modern amenities	Access to modern tools, collaboration with architects, and building data
Facility manager	Oversee building maintenance and ensure optimal performance	Maintain buildings efficiently and improve tenant comfort	Resources for efficient building maintenance and tenant engagement
Municipality environmental area	Provide broader sustainability goals and regulatory support	Achieve community-wide sustainability and energy efficiency	Alignment with the project's goals and support from various stakeholders
Residents	Live in the building and adopt sustainable living practices	Enhance their quality of life and adopt energy-efficient practices	Education on energy-efficient practices and comfort enhancements
Architects	Design refurbishment plans that respect historical building constraints	Ensure that refurbishment respects the building's historical nature	Collaboration with engineers and consideration of historical constraints
Social area of ZAVI	Assist residents in improving their living conditions	Improve residents' quality of life through social assistance	Resources and collaboration to effectively assist residents
Maintenance company	Conduct building maintenance and adaptive maintenance tasks	Ensure that maintenance work contributes to building performance	Clear guidelines and support to perform adaptive maintenance
Energy supplier	Provide energy to the building, focusing on optimisation	Optimize energy usage while balancing profitability	Balanced approach to profit and energy efficiency in supply
Local Universities	Contribute research and innovation to the project	Provide practical and theoretical insights to improve building performance	Practical implementation pathways for theoretical insights
Spanish network of social housing association	Provide broader industry insights and best practices	Disseminate best practices for social housing across the network	Collaboration and data to ensure dissemination of best practices

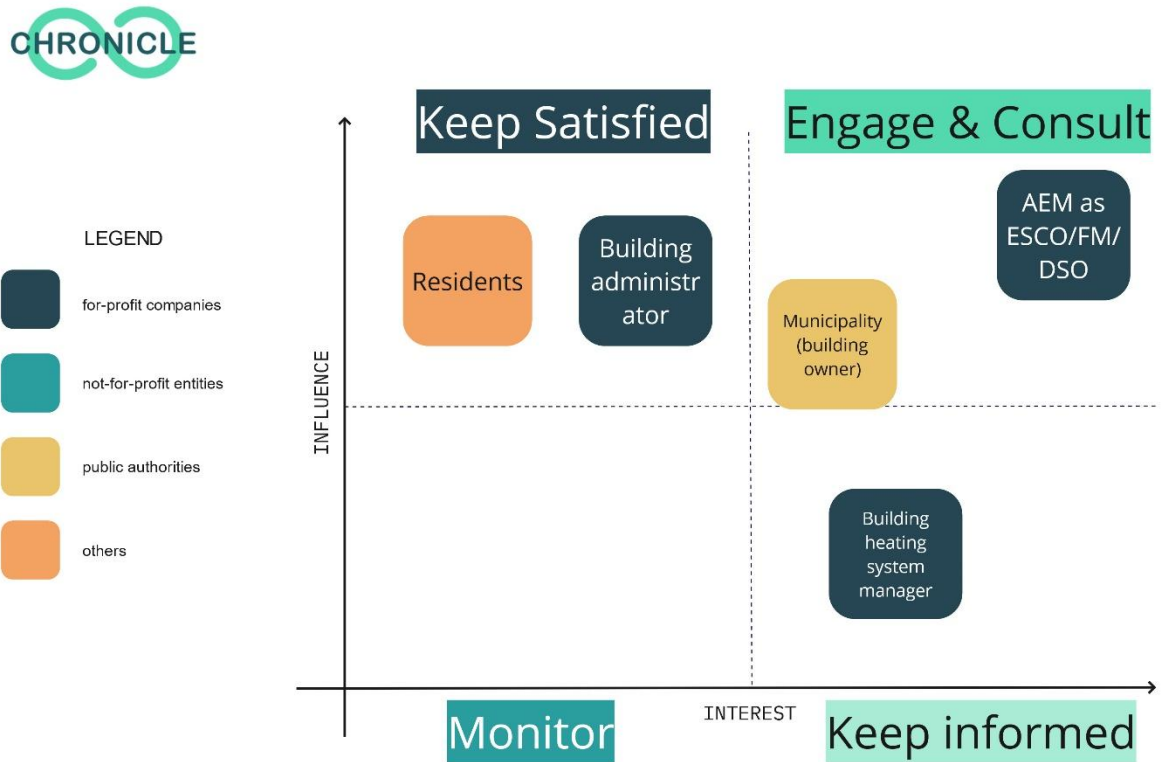
5.2.4. Swiss Living Lab

The Swiss Living Lab primarily aims to explore and refine business models and operational strategies for managing buildings more efficiently, particularly focusing on energy systems. The pilot's objective is to gain insights into building performance, operational improvements, and renovation impacts. A successful outcome is defined by achieving better understanding and optimisation of building operations, enhanced energy efficiency, and validation of business models that can be replicated in other projects. This success hinges on the ability to effectively manage the integration of new technologies and processes within the existing infrastructure, ensuring improvements in both sustainability and operational efficiency.

The Swiss pilot interacts with a variety of stakeholders to achieve its goals on the site. Key interactions include the facility manager/DSO, who oversees the energy systems and maintenance; the building administration, responsible for managing the building and communicating with residents; and the engineering company, which assists in managing the heating system and data integration. The municipality, as the building owner, plays a role in strategic decisions and economic considerations. Additionally, the residents are crucial stakeholders, providing necessary consents and feedback. Effective collaboration and communication among these stakeholders are essential to successfully implement and optimize the pilot's energy and operational improvements.

The main hurdles of the Swiss living lab involve engaging elderly residents who are not technologically savvy, obtaining their consent, and communicating effectively, as many do not use email. Coordinating among various stakeholders, such as the facility manager, building administration, engineering company, and municipality, adds complexity to the project. Additionally, integrating new sensors and systems into the old building's infrastructure presents technical challenges. Balancing the day-to-day activities and priorities of the technical team with the demands of the pilot project can also strain resources and delay progress. These challenges require careful management and strategic planning to ensure the success of the living lab's objectives.

Figure 4: Stakeholder mapping Swiss LL



The stakeholder mapping was categorised according to the type of main approaches required for their engagement, presented in the Table 10 below. Unlike in the most other LLs, in Swiss case, the residents have a minor role in the implementation of the LL, as most activities concentrate on the building management and associated tools. On the other hand, even if active role is not expected from the residents, sufficient temperature and comfort should be maintained.

Table 10: Stakeholder categories Swiss LL

Keep satisfied: Residents, building administrators	Engage & consult: AEM as ESCO, AEM as facility manager, AEM as DSO, Municipality especially in the capacity of building owner
Monitor: n/a	Keep informed: Engineering company as managing the heating in the building

A further analysis of the stakeholders was conducted, estimating their potential roles, goals and needs. The results of the analysis are presented in the Table 11 below.

Table 11: Stakeholder analysis Swiss LL

STAKEHOLDER	ROLE	GOAL	NEEDS
AEM in the role of DSO/ESCO/FM	Oversee energy systems and manage building maintenance	Ensure efficient operation of energy systems and maintenance processes	Access to advanced energy management tools and clear collaboration guidelines
Municipality, especially in the capacity of building owner	Play a strategic role in building ownership and economic considerations	Support strategic decisions to improve building performance and sustainability	Alignment with sustainability goals and financial considerations
Engineering company	Assist with heating system management and data integration	Facilitate integration of new technologies for improved building performance	Technical data and resources to support system integration
Residents	Provide necessary consents and feedback on building operations	Enhance their living conditions and participate in the pilot project	Elderly resident may have specific needs regarding comfort in the building, clear communication about the project
Building administration	Manage building operations and serve as the primary communication link with residents	Ensure smooth building operations and effective resident communication	Effective communication tools to reach residents and support collaboration

5.2.5. Greek Living Lab

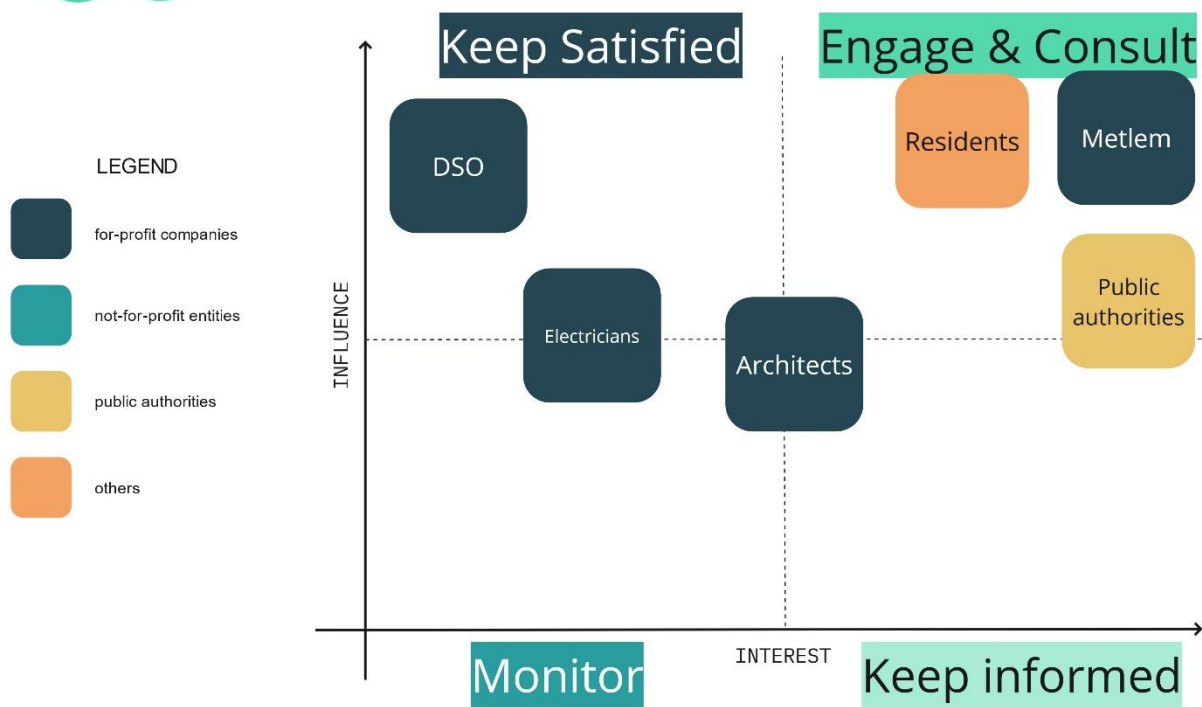
The Greek living lab's primary goals focus on reducing energy losses in an aging settlement built in the 1960s, occupied by families working in the Metlem industry. The pilot aims to increase energy efficiency through solutions like IoT equipment to monitor and control energy consumption in the buildings. A successful outcome would be a significant reduction in energy losses, proving the cost-effectiveness of such investments, thereby paving the way for the village to become Greece's first smart city. This would add value to both the company and the community, aligning with Metlem's vision of sustainability and innovation.

The Greek pilot interacts with various stakeholders to achieve its goals, including the residents/tenants of the village, who are crucial for participation and acceptance of new technologies. They also collaborate closely with Metlem, which funds and manages the project, ensuring alignment with company goals. Additionally, the pilot engages with the local public authorities for necessary approvals and support, and works with third-party electricians, architects, and construction workers for the installation and maintenance of

the new energy-efficient systems. The pilot also communicates with the DSO for technical and regulatory compliance.

The main hurdles of the living lab in the Greek pilot include overcoming the resistance from residents, some of which have had negative experiences with previous projects, which affects their willingness to participate in new initiatives. Technical challenges also pose significant obstacles, such as the outdated infrastructure of the 1960s buildings, which complicates the installation of modern energy-efficient systems. Additionally, there are regulatory and bureaucratic barriers related to energy management and the establishment of energy communities in Greece, which can delay progress. Coordination with various stakeholders, including third-party electricians and local authorities, adds another layer of complexity to the project.

Figure 5: Stakeholder mapping Greek LL



After producing the stakeholder map, the stakeholders in the Greek LL were further categorised by the high-level engagement needs. The results are presented in the Table 12 below.

Table 12: Stakeholder categories Greek LL

Keep satisfied: DSO	Engage & consult: Residents, Metlem in capacity of FM and utility provider, Public Authorities
Monitor: n/a	Keep informed: Architects, Electricians

The stakeholder roles, goals and needs were further analysed and are summarised in the Table 13 below.

Table 13: Stakeholder analysis Greek LL

STAKEHOLDER	ROLE	GOAL	NEEDS
Metlem (former Mytileneos)	Facility manager, utility manager, energy supplier, also the main employer in the village	Transform Aspra Spitia into “Smart City”, transform the role of the company on the site to “energy service company” rather than only supplier, demonstrate energy saving potential in the village.	To understand where and when to invest for energy efficiency through implementation of smart tools
Residents	Tenants of the apartments, end users of the home energy solutions, potential end-users of ChroViewOcc	Reduce energy cost, improve comfort in their homes	Clear communication, training on energy saving practices
Public authorities	Regulators, enablers of technological innovation	Align with municipal goals on climate, support smart city development	Streamlined bureaucracy
Architects	Designers of energy efficient and sustainable housing	Modernise the building design and improve energy efficiency	Collaboration with Metlem, facility managers, engineers and architects
Electricians	Install and maintain n smart energy infrastructure	Local electricians to have an active role in supporting the smart city infrastructure	Training on smart energy systems
DSO	Regulatory approvals	Enable integration of smart energy systems	Collaboration, data sharing

5.3. Conclusion

The stakeholder mapping exercise conducted for the CHRONICLE project's Living Labs provides insights into the diverse ecosystem of participants relevant to the success of the project. By identifying stakeholders across various categories, the analysis highlights their roles, goals, and needs, offering a comprehensive understanding of their influence on and interest in the project's outcomes.

The stakeholder mapping exercise demonstrates the collaborative nature of the building performance monitoring and improving energy efficiency. In addition to the stakeholders identified as the main users of CHRONICLE tools and services, initiatives that engage in building energy efficiency improvement do not operate in isolation but constantly interact with a wide range of stakeholders. Electricians and technicians, maintenance contractors, energy and heating suppliers, DSOs, and public authorities may all have important supporting roles, such as installing and maintaining the equipment, or granting access to data, in enabling the project to succeed. For social housing, supporting personnel, such as social workers might be required to enhance successful communication with the residents.

In addition to local supporting companies and organisations, third sector and research institutions may have an important supporting role, especially in the local level. Universities may be important collaborators in enhancing innovation, while professional networks and organisations may become interesting exploitation avenues.

Overall, the exercise reveals the complex interdependencies and diverse motivations that must be navigated to ensure effective engagement and collaboration to meet the local objectives.

The categorisation of stakeholders using an influence-interest matrix paves way for tailored engagement approaches. Stakeholders in the "Engage & Consult" category, such as residents and public authorities, have a key role in the success of the project. Conversely, stakeholders in "Keep Informed" and "Monitor" categories, while less directly involved, remain essential for creating an enabling environment for the project's goals.

The analysis revealed several common barriers, including low energy awareness and technological levels amongst some of the residents, communication challenges, alignment of priorities among stakeholders, and technical constraints like outdated infrastructure.

Moving forward, it is essential to operationalise engagement of the stakeholders identified based on the principles highlighted in this document, addressing the identified gaps and leveraging opportunities to strengthen collaboration. The success of the CHRONICLE project, and the associated technical tools depends on sustained and meaningful interaction with all stakeholders to achieve its objectives of enhancing building energy efficiency.

6. Synergies with Relevant Projects and Initiatives

Networking with other European projects in related fields is central to CHRONICLE's mission to maximise its impact and foster mutual learning. Under Task 6.3, 'Synergies with Relevant Projects and Initiatives' within WP6, CHRONICLE actively collaborates with aligned initiatives and professional networks throughout the project's lifecycle. This task is not only about networking but also about creating a collaborative framework where ideas can foster interdisciplinary exchange, ensuring the adoption of best practices and the creation of innovative solutions tailored to the evolving demands of the building renovation and energy performance sectors.

CHRONICLE has integrated into two prominent networks: the Next Generation Energy Performance Certificates Cluster (Next Gen EPC) and the Network of Building Renovation Projects. These networks connect CHRONICLE to over 30 projects, streamlining activities into cohesive initiatives and reducing fragmented communication. Through these collaborations, CHRONICLE engages diverse stakeholders via joint events, workshops, publications and shared communication materials, significantly amplifying its visibility and impact. Each collaboration provides an opportunity to showcase CHRONICLE's tools, methodologies and outcomes, ensuring a wide-reaching influence that extends beyond the immediate stakeholders to policymakers and industry leaders.

In 2025, project's final year, CHRONICLE intensified its synergies with other EU-funded projects, initiatives, and European platforms through targeted and additional collaboration efforts. By actively engaging in thematic networks, co-organising and contributing to joint events, and collaborating on joint publications and technical articles, CHRONICLE maximised the visibility, coherence, and exploitation potential of its results. These coordinated actions, particularly concentrated in the final year of the project, played a key role in supporting the successful finalisation of CHRONICLE and in positioning its outcomes for uptake, replication, and continuation beyond the project lifetime.

6.1. CHRONICLE Networks and Sister Projects

CHRONICLE has actively engaged with two prominent networks - Next Generation Energy Performance Certificates Cluster (Next Gen EPC) and the Network of Building Renovation Projects - which play a critical role in fostering collaboration and knowledge sharing within the building renovation and energy performance domains. These networks bring together over 30 European projects, creating a platform for synergistic actions and collective impact.

6.1.1. Next Generation Energy Performance Certificates Cluster

The Next Gen EPC Cluster focuses on advancing next-generation energy performance certificates, driving innovation, and aligning efforts to improve building performance assessments across Europe.

It is a collaborative initiative advancing European Building Performance Assessment and Certification, aligning efforts across mandatory and voluntary frameworks. By fostering

open dialogue and structured exchanges, the cluster enhances the development and implementation of the Energy Performance of Buildings Directive (EPBD).

The cluster consists of 16 projects alongside CHRONICLE, spanning multiple years of innovation:

2019: QualDeEPC, U-CERT, X-tendo

2020: D²EPC, E-DYCE, ePANACEA, EPC RECAST

2021: crossCert, EUB SuperHub, iBRoad, TIMEPAC

2022: CHRONICLE, SmartLivingEPC

2023: iEPB, SmarterEPC, tunES, EPBDwise

Facilitated by the SmartLivingEPC project, the cluster enables collaboration through annual NDA workshops and ongoing exchanges, emphasising communication, dissemination, exploitation, and technical advocacy, with a current focus on implementing the EPBD Recast. To further support collaboration, a dedicated SharePoint platform was established, providing cluster members with centralised access to contact details, key documents, and other relevant information, ensuring streamlined and efficient cooperation.

Since joining in 2022, CHRONICLE has benefited from the cluster's resources, gaining enhanced access to shared expertise, coordinated dissemination efforts, and structured exchanges. This collaboration amplifies CHRONICLE's visibility, aligns its outcomes with EU priorities, and strengthens its role in advancing energy performance certification across Europe.

Image 15: Banner of Next Generation Energy Performance Certificates Cluster

The banner features a central title "Next Generation Energy Performance Certificates cluster" flanked by the European Union flag. Below the title, logos for various projects are arranged in rows corresponding to their start years:

- 2019:** Qual DeEPC, U-CERT, X-tendo
- 2020:** D2EPC, eDYCE, ePANACEA, EPC RECAST
- 2021:** crossCert, EUB SuperHub, iBRoad2EPC, TIMEPAC
- 2022:** Smart living EPC, CHRONICLE
- 2023:** iEPB, Smarter EPC, tunES, EPBDwise

At the bottom, a text box states: "These projects have received funding from the European Union's Horizon 2020, Horizon Europe and LIFE programmes. The European Union is not liable for any use that may be made of the information contained in the documents prepared by the projects' consortia, which are merely representing the authors' view."

Image 16: Screenshot of CHRONICLE project elevator pitch at the 3rd NDA workshop organised by the Next Gen EPC cluster on 13 December 2022

The screenshot shows a video player interface. At the top, it displays "Horizon Europe CHRONICLE project pitch video" and "~5 min elevator pitch CHRONICLE". The video content includes:

- Leon Nielsen, Project Manager
- CIRCE - Research Centre in
- The CHRONICLE logo
- A portrait of Leon Nielsen

At the bottom left, there is a "Watch on YouTube" button. The bottom right corner of the player shows "Next Gen EPC cluster, 3rd NDA workshop" and the page number "30".

6.1.2. Network of Building Renovation Projects

The Network of Building Renovation Projects is a collaborative platform created to foster synergy and information exchange among Horizon Europe-funded projects in the construction sector. Initiated by the REHOUSE project, the network held its kick-off meeting on 12 March 2024, marking the beginning of a concerted effort to share knowledge, coordinate actions, and amplify the collective impact of its members.

Currently comprising 22 projects, including CHRONICLE, the network is closely aligned with the Built4People Partnership, which supports sustainable innovation in the built environment. As member projects we find: AEGIR, Drastic, e-SAFE, EBENTO, FORTESIE, HERIT4AGES, INBUILT, INPERSO, MULTICARE, NEBULA, oPEN Lab, openDBL, RE-SKIN, SMARTeeSTORY, SUPERSHINE, SUREFIT, REHOUSE and CHRONICLE.

The network's primary goal is to stimulate collaboration and create synergies by:

- Sharing knowledge on innovative solutions and project outcomes.
- Coordinating efforts to organize joint events and outreach activities.
- Highlighting member projects' achievements to stakeholders in the construction sector and applied sciences.

To streamline collaboration, a dedicated SharePoint platform has been established, providing centralised access to contact information, dissemination materials, and a forum for sharing ideas and planning joint actions. Regular meetings allow members to build connections, brainstorm, and develop coordinated strategies for maximizing their collective impact.

Through this partnership, CHRONICLE and its fellow projects aim to advance innovation, foster stakeholder engagement, and shape the future of energy-efficient and sustainable construction practices.

Image 17: Banner of Network of Building Renovation Projects



6.2. Ongoing Collaboration

Collaboration with European projects and professional networks has been integral to CHRONICLE's strategy for broadening its reach and amplifying its impact. Through active participation in the Next Gen EPC Cluster and the Network of Building Renovation Projects, CHRONICLE has leveraged these platforms to coordinate communication efforts and foster synergies with similar initiatives.

We can identify two key areas of collaboration: digital support and joint actions. Digital support has been crucial for maintaining a cohesive online presence and ensuring the effective dissemination of CHRONICLE's findings. Simultaneously, joint events and collective actions have provided opportunities to share knowledge, engage stakeholders, and strengthen the project's position within the building renovation and energy performance community.

Active participation by CHRONICLE members is essential to the success of these collaborations. To ensure all partners are informed and can actively engage, the consortium receives from T6.3 leader SIN regular updates on planned joint actions with sister projects. These updates are provided during each General Assembly, held both in-person and online, and, in between meetings, through regular email communication. This

approach ensures that all partners remain aligned and have full access to the opportunities offered via Task 6.3 and the associated networks.


Image 18: Examples of updates on T6.3 activities to CHRONICLE's consortium

[CHRONICLE] Updates from Next Gen EPC cluster's and other sister/related projects

Dear CHRONICLE colleagues,

please find below an update of activities from Next Gen EPC cluster's and other sister/related projects.

- Smart Readiness Indicator Joint Event** - CHRONICLE is invited to the upcoming event taking place on March 7th, 2024 in Brussels (physical meeting). The event is coordinated by REHVA on behalf of [Smart Square](#) project and features the SRI Platform 4th Plenary Meeting, an insightful Expert Talk followed by Roundtable Discussion, and an engaging Project Exhibition running in parallel. We are **invited to participate as a panellist in the roundtable discussion** *Assessing Building Smartness. Technical Frameworks and Procedural Intricacies of the Building Smartness Audit* and to feature CHRONICLE project in the exhibition area. Only **one representative from CHRONICLE** can attend due to capacity issues. Because of the short deadline, **please inform Leon and me asap if you would like to attend this event on behalf of CHRONICLE.**



The poster for the 'SMART READINESS INDICATOR JOINT EVENT' is dated 07 March 2024 at Comet Meetings Louise, Brussels. It is organized by the European Commission DG Energy & CINEA (https://energy.ec.europa.eu/smart-readiness-indicator) and SMIRT2 (https://www.smartsquare-project.eu/). The event includes a Morning session with the SRI Platform 4th Plenary Meeting (hybrid format) and an Afternoon session with an SRI Day, Expert Talk and Roundtable Discussion on Building Smartness (hybrid format). It also features an SRI Projects Exhibition with logos for SMIRT2, SRI MARKET, EPB ENACT, and SRI. A small disclaimer at the bottom states: 'Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or ENEC. Neither the European Union nor the granting authority can be held responsible for them.'
- IEPB Survey on Energy Certification of Buildings:** The IEPB survey aims to comprehend the needs and constraints related to the energy certification of buildings. You are invited to complete the survey and share your insights, gained during the implementation activities of the CHRONICLE project and your overall relevant activities. Survey: [Survey on Energy Certification of Buildings](#)
More info: [IEPB launches a comprehensive survey on energy certifications on buildings: understanding needs and constraints - IEPB \(iepb-project.eu\)](#)
- tunES EPC & SRI Practice Collection:** tunES has compiled an initial practice collection document with 50 entries related to EPC and SRI projects and now wishes to make our technological insights available to all EU energy agencies, ministries, the EC and relevant stakeholders. CHRONICLE partners are invited to make corrections, detail, and update this document. tunES deploys a policy implementation approach. By co-editing the summary of your practice (including lessons and recommendations) you will contribute to improving the recommendations for energy agencies and prepare content for your own exploitation and policy related deliverables. It is a living document and will be maintained for several years. Over time, tunES will incorporate references to EPBD revision and categorise practices accordingly. Please contact me (agnieszka.haider@smartinnovationnorway.com) directly if you want to receive more information and want to contribute to this document.
- EPBD.wise Stakeholder Community Invitation:** An invitation is extended to join the [EPBD.wise Stakeholder Community](#), coinciding with the new deal on the revised Energy Performance of Buildings Directive (EPBD). As a stakeholder in the EPBD.wise project community, you will have the opportunity to be a part of the implementation of Europe's building policy to ensure we decarbonise our building stock and make our climate objectives a reality. To join the community, please sign up here: <https://forms.office.com/Pages/ResponsePage.aspx?id=r35MKWWZrkGcLEcDPNvgDW2hzFK50m1HnjfVeXAv6TFUOE1LN1UzMDQwNkdjWUJEWSE03U1M1QUUNUWS4u>
- Building Stock Observatory (BSO) Update:** The European Commission has updated the [EU Building Stock Observatory](#), enhancing its reliability, data visualization quality, and user experience. The BSO tracks energy performance and decarbonization data across EU countries and is intended for a wide range of users, including analysts and policy advisors. For further engagement, CHRONICLE partners are encouraged to explore the BSO online and fill out the forms to contribute with their insights and stay informed on the latest developments in building energy performance.

[CHRONICLE] crossCert 10 Min. survey on the design and experience of EPCs

Dear CHRONICLE colleagues,

Our sister project [crossCert](#) is currently investigating the design of next-generation EPCs across Europe and wants to hear from different users about their experiences with EPCs and thoughts about where these might go in the future.

Therefore they are asking us to participate in a 5 to 10 minutes [Survey on Design and Experience of EPCs](#) or/and to circulate the survey among your relevant networks.

The survey is suitable for any individual who has some reason to interact with an EPC and use its output (not just those responsible for generating EPCs).

Particular groups of interest are:

- Departments in local authorities/municipalities where EPCs are using for local decisions on building projects
- Building project managers
- Building services engineering companies, architects, building construction firms
- Trade organisations/institutions in areas of the built environment
- Energy assessors
- Those using EPCs in local/regional/national policy
- Colleagues in your own organisations or networks

CrossCert is thanking us for dedicated time and support.

6.2.1. Digital Support

Digital support within the Next Gen EPC Cluster, the Network of Building Renovation Projects as well as other Sister Projects enhances CHRONICLE's visibility and fosters collaboration through shared platforms.

These digital efforts ensure CHRONICLE remains a visible and active participant in its networks, enhancing its outreach and reinforcing collaboration with aligned projects.

CHRONICLE is featured on the websites of sister projects from both networks, with its logo, a brief description, and links to its website and social media accounts. In return, CHRONICLE's website hosts a dedicated 'Networks' webpage displaying sister projects' logos with direct links to their websites, reinforcing mutual accessibility and visibility. This presence not only amplifies CHRONICLE's exposure to a broader audience but also strengthens its credibility as part of a larger European effort.

Image 19: Example of CHRONICLE featured on openDBL project website

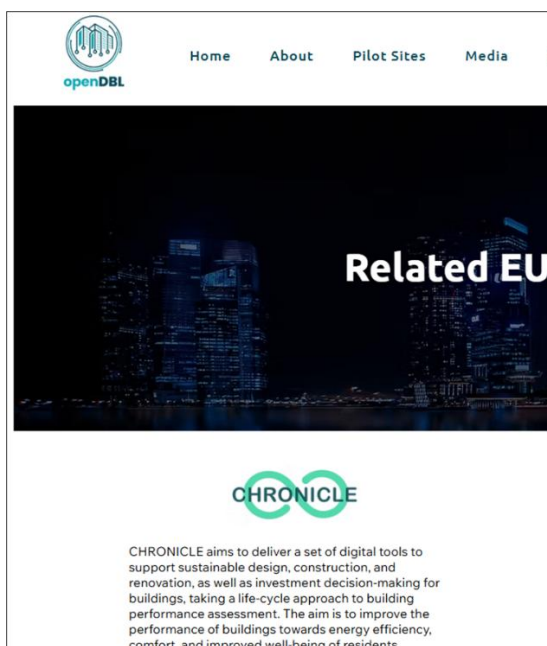


Image 20: Example of CHRONICLE featured on SmartLivingEPC project website

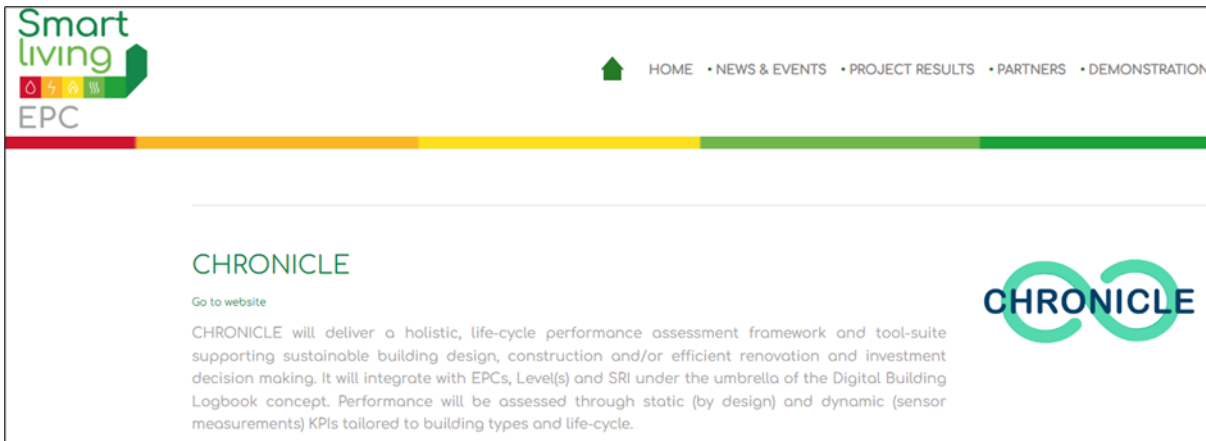


Image 21: Example of CHRONICLE featured on WILSON project website

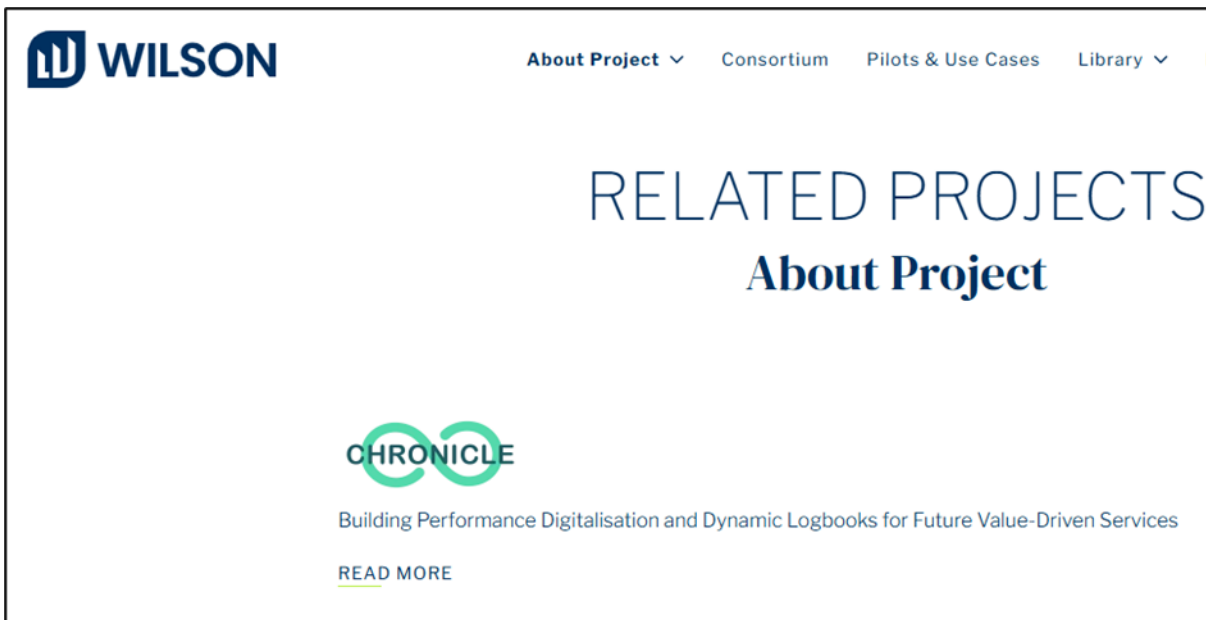
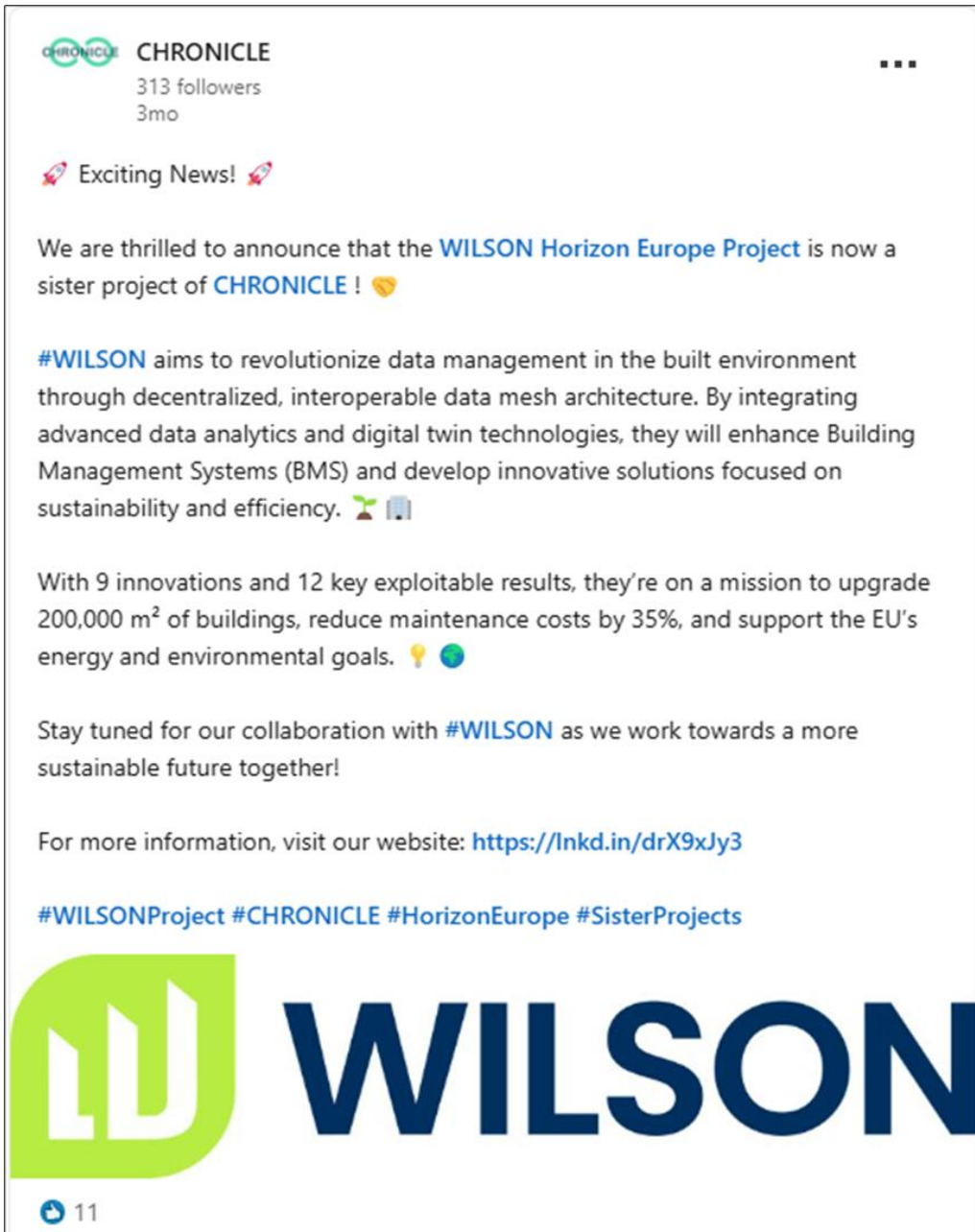


Image 22: Example of disseminating sister project WILSON in CHRONICLE's social media post



CHRONICLE
313 followers
3mo

🚀 Exciting News! 🚀

We are thrilled to announce that the **WILSON Horizon Europe Project** is now a sister project of **CHRONICLE** ! 🍷


#WILSON aims to revolutionize data management in the built environment through decentralized, interoperable data mesh architecture. By integrating advanced data analytics and digital twin technologies, they will enhance Building Management Systems (BMS) and develop innovative solutions focused on sustainability and efficiency. 🌱 🏢

With 9 innovations and 12 key exploitable results, they're on a mission to upgrade 200,000 m² of buildings, reduce maintenance costs by 35%, and support the EU's energy and environmental goals. 💡 🌍

Stay tuned for our collaboration with **#WILSON** as we work towards a more sustainable future together!

For more information, visit our website: <https://lnkd.in/drX9xJy3>

#WILSONProject #CHRONICLE #HorizonEurope #SisterProjects



👍 11

Image 23: Networks page on CHRONICLE website (top part only)

CHRONICLE ABOUT NEWS PARTNERS PILOT SITES STRATEGY USE CASES TOOLS
STAKEHOLDERS RESOURCES PUBLICATIONS NETWORKS CONTACT

Follow Follow

Networks

CHRONICLE is part of two networks and connected with two sister projects:

- The Next Generation Energy Performance Certificates Cluster (Next Gen EPC)
- The Network of Building Renovation Projects
- Sister projects

Below you can find more information about each network, their members and our collaborative activities.

The Next Generation EPC Cluster

The **Next Generation Energy Performance Certificates Cluster** is funded by the Horizon 2020 and Horizon Europe research and innovation programmes. This network consists of 17 projects including CHRONICLE. Projects collaborate within the cluster to enhance the development of next generation EPCs and to boost each other's impact. Collaborative activities include:

- joint participation in events, workshops and panels
- mutual promotion of projects and outcomes
- exchange of best practices, knowledge and information

Member Projects

2019				
2020				
2021				
2022				
2023				

The Network of Building Renovation Projects

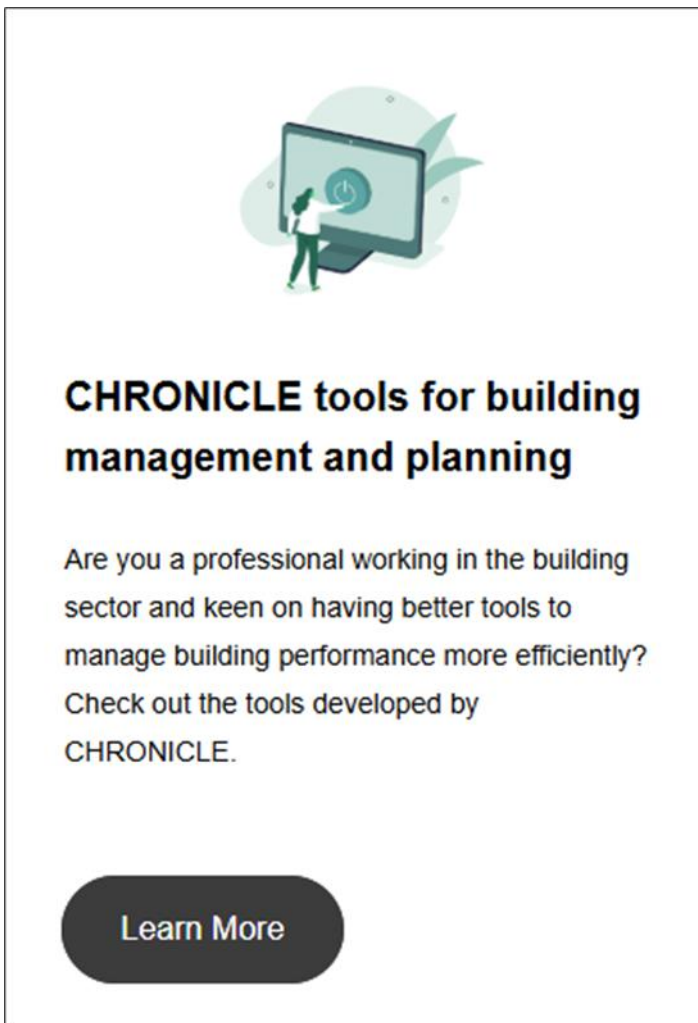
This network was initiated by the REHOUSE project and had its kick-off meeting on 12 March 2024. The goal of the network is to stimulate the exchange of information among the projects, for example to share knowledge on solutions, to share efforts in organising events and to highlight each other's activities – in short, to create synergies!

Member Projects

CHRONICLE also contributes to newsletters from sister projects by providing updates on its activities. For instance, CHRONICLE's tools for building management and planning were highlighted in the OPEN Lab project's newsletter released on 6 October 2024, directly reaching new stakeholders who can adopt and adapt these innovations. Such contributions enable CHRONICLE to connect with a highly relevant audience, share its innovations, and maintain strong engagement with key stakeholders.

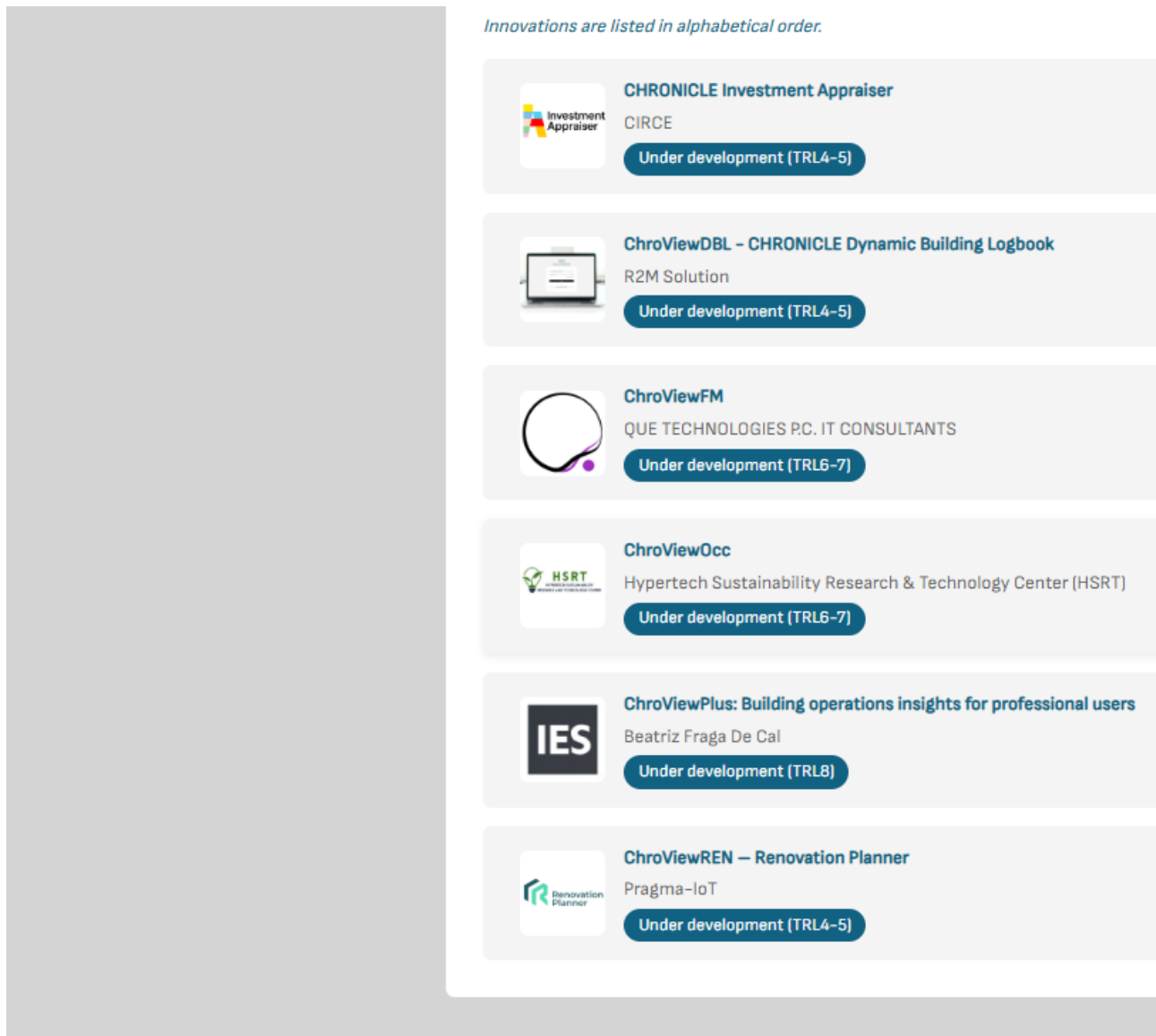
Image 24: CHRONICLE's tools for building management and planning featured in OPEN Lab Newsletter from 6 October 2024



Throughout its final year, CHRONICLE continued its active collaboration within the Network of Building Renovation Projects and the Next Generation Energy Performance Certificates (Next Gen EPC) Cluster, ensuring sustained knowledge exchange and alignment with parallel EU initiatives. These interactions supported the validation, consolidation, and alignment of CHRONICLE results with emerging European renovation, digitalisation, and policy practices.

In parallel, CHRONICLE strengthened its engagement with the European innovation ecosystem by collaborating with the METABUILDING platform, a digital meeting point for innovators in the built environment. In 2025, CHRONICLE innovations were listed on the METABUILDING platform, representing an additional effort to enhance visibility, foster cross-sectoral synergies, and support the long-term sustainability and exploitation of project outcomes.

Image 25: CHRONICLE’s innovations listed on the METABUILDING platform



To support transparency and continuity of collaboration, CHRONICLE also maintained a dedicated “Networks” page on the project website throughout 2025. This page systematically documented CHRONICLE’s participation in clusters, partnerships with EU projects, and joint activities, serving as a central reference point for stakeholders and reinforcing the project’s commitment to cross-project cooperation. In parallel, CHRONICLE was highlighted on the websites of several sister projects, further strengthening mutual visibility and reinforcing synergies across digital platforms.

In its final year, CHRONICLE actively supported cross-project communication efforts. CHRONICLE was featured in sister projects' newsletters and digital platforms, extending outreach beyond its own communication channels. Notably, CHRONICLE was highlighted in the WILSON project Newsletter published in March 2025, contributing to mutual visibility and reinforcement of project messages across EU-funded initiatives.

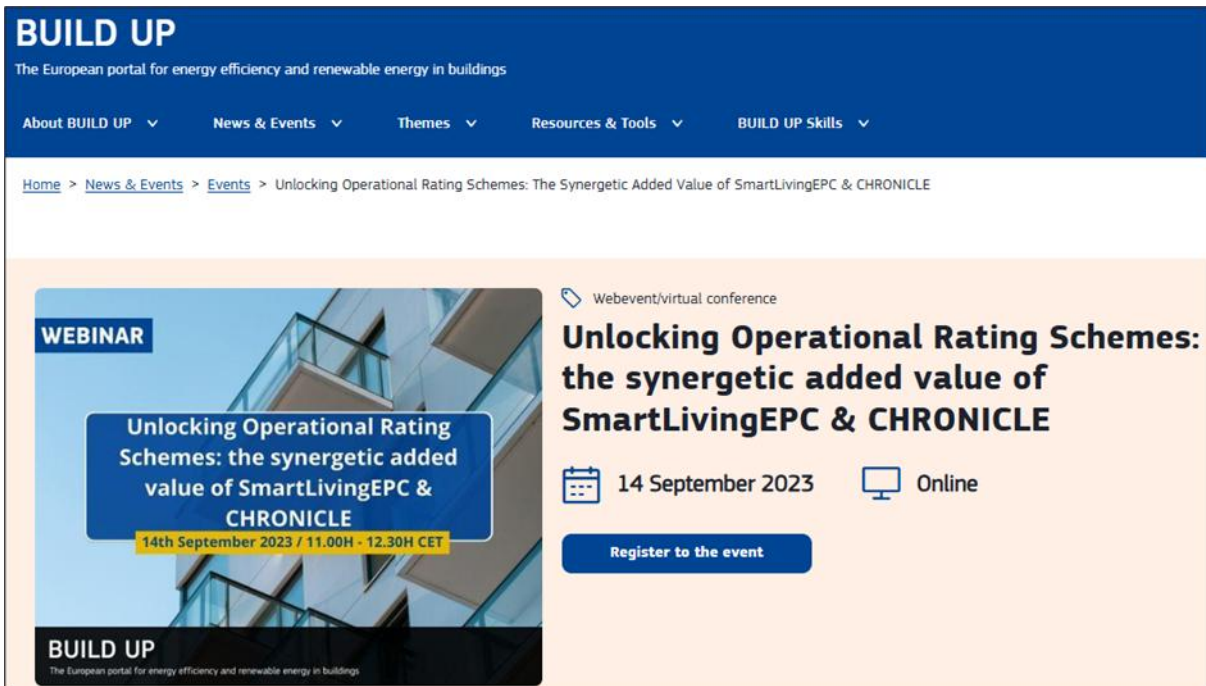
6.2.2. Joint Events and Activities

Collaboration with sister projects and professional networks has proven to be highly productive for CHRONICLE, leading to several impactful joint actions. These collaborations have enabled CHRONICLE to actively contribute to shaping discussions, sharing innovations, and fostering synergies with related projects in the domains of building renovation and energy performance.

At the Sustainable Places Conferences, CHRONICLE has been deeply involved in hosting and participating in joint workshops. In 2023 (Madrid), CHRONICLE initiated and coordinated the workshop 'Digitalisation of Energy Performance Assessment to Enable Retrofits', bringing together six EU projects to explore the integration of digitalisation, BIM, and AI in building renovation. Two additional workshops, 'Built4People Meets the New European Bauhaus' and 'Digital Building Logbooks', further demonstrated the project's leadership in engaging with stakeholders to advance technical standards and collaborative efforts.

CHRONICLE has also actively contributed to webinars that emphasise cross-project collaboration and knowledge sharing. For example, the 'Unlocking Operational Rating Schemes' webinar (14 September 2023), hosted by BUILD UP, saw CHRONICLE join forces with SmartLivingEPC to explore the implementation of operational rating schemes. CHRONICLE shared insights into holistic building assessments supported by real-life data, fostering lively discussions with participants from the energy and building sectors.

Image 26: BUILD UP webinar featuring CHRONICLE



The screenshot displays the BUILD UP website interface. At the top, the header includes the BUILD UP logo and the tagline 'The European portal for energy efficiency and renewable energy in buildings'. Navigation menus for 'About BUILD UP', 'News & Events', 'Themes', 'Resources & Tools', and 'BUILD UP Skills' are visible. Below the header, a breadcrumb trail reads 'Home > News & Events > Events > Unlocking Operational Rating Schemes: The Synergetic Added Value of SmartLivingEPC & CHRONICLE'. The main content area features a webinar announcement with a blue and white graphic on the left and text on the right. The graphic includes the word 'WEBINAR', the event title, and the date '14th September 2023 / 11.00H - 12.30H CET'. The text on the right identifies the event as a 'Webevent/virtual conference', repeats the title, and lists the date '14 September 2023' and 'Online' format. A blue button labeled 'Register to the event' is positioned below the date and format information.

Similarly, CHRONICLE participated in the 'Online Workshop on Standardisation of EPCs' (28 September 2023) to coordinate standardisation efforts with D²EPC and SmartLivingEPC and the 'Unlocking Energy Efficiency' webinar (9 October 2023) hosted by digiNEB.eu, where the project presented its work on Digital Building Logbooks.

Image 27: 'Unlocking Energy Efficiency' webinar agenda

D²EPC proposed a new European standard dealing with operational Energy Performance Certificates (operational EPCs): CEN/TC 371/WG 5. This development just started and it will require several years to succeed. Chronicle and SmartLivingEPC will continue with the standardisation activities within their related tasks.

DATE AND TIME

Thursday 28 September at 10:00 CEST

LOCATION

[Link for the meeting in Teams](#)

AGENDA

10:00 Welcome

10:10 **The standardisation system for operational EPCs** – Aitor Aragón (UNE, Spanish Association for Standardisation)

10:30 **A European standard for energy performance rating** – Paris A. Fokaides (Frederick Research Center)

11:00 Next steps for each project

11:20 Open debate

12:00 Closing





The project also featured prominently in the 'Building Tomorrow: Navigating the Future with BIM-Driven Digitalisation' webinar (26 February 2024), co-organized with openDBL and DigiBUILD, showcasing smart technologies to enhance building potential.

Image 28: 'Building Tomorrow: Navigating the Future with BIM-Driven Digitalisation' webinar's banner

The banner features a dark teal background with a glowing green digital pattern at the bottom. At the top, a white rounded rectangle contains the logos for DigiBUILD (a house icon with a plug), openDBL (a circular icon with a building and a plug), and CHRONICLE (two interlocking circles). Below the logos, the title 'BUILDING TOMORROW' is written in large, bold, white capital letters, followed by the subtitle 'Navigating the Future with BIM-Driven Digitalization' in a smaller white font. A central white rounded rectangle contains the text 'Date & Time' in a small font, with '26th February 2024' and '11h00 – 14h00 CET' in larger bold fonts. Below this, the text 'ORGANISED BY' is written in bold white capital letters, followed by 'openDBL, Chronicle, and DigiBUILD' in a smaller white font. At the bottom left, there is a globe icon and the website 'www.opendbl.eu'. At the bottom right, there is the text 'Follow Us:' followed by icons for Facebook, LinkedIn, Twitter, and YouTube.

CHRONICLE's involvement extended to the "Smart Readiness Indicator Joint Event" (7 March 2024), where it participated in expert roundtable discussions on the smart readiness of European buildings, sharing its innovative approaches to SRI evaluation.

At the CINEA Buildings Cluster Meeting (May 2024), CHRONICLE presented its innovations in EPC assessment, particularly automated EPC calculation using digital twin technologies, and engaged in discussions on synergies with other EU projects.


In June 2024, CHRONICLE participated in a joint policy session 'Implementing the Energy Performance of Buildings Directive recast' during the European Sustainable Energy Week (EUSEW), organised by EPB Center and the Next Gen EPC Cluster in collaboration with EPBD.wise. This policy session addressed the challenges of EU-wide transposition and

practical implementation of the EPBD Recast. It explored the complexities of aligning diverse legal and regulatory frameworks across EU member states, integrating multiple stakeholder inputs, and ensuring harmonisation and feasibility. The session showcased achievements from EU-funded projects, including contributions from the EPBD stakeholder community and insights from the European Commission's upcoming EPBD Recast Official Guidance Documents. By offering practical, evidence-based strategies, this session enriched the energy policy debate and supported the effective transposition of the EPBD Recast.

Image 29: 'Implementing the Energy Performance of Buildings Directive recast' recording on EUSEW Interactive

Energy efficiency

Implementing the Energy Performance of Buildings Directive recast



📍 Charlemagne Building, Mansholt room, ground floor

📅 11 June 2024

🕒 14:30 - 16:00 CEST

Another collaborative activity took place at Sustainable Places 2024 (Luxembourg), where CHRONICLE participated in three workshops in September 2024: 'Unlocking the Renovation Wave: Deep-renovation solutions developed by EU-funded projects', 'EPBD Implementation: Facilitated & Enhanced by the Projects of the Next Gen EPC Cluster', and 'Digital Building Logbook Workshop: Creating Efficient and Impactful Digital Building Logbooks'. These workshops continued CHRONICLE's tradition of engaging in high-impact discussions and sharing innovations within the energy and building sectors.

Image 30: CHRONICLE's three Sustainable Places 2024 workshops participation



In May 2025, CHRONICLE co-organised and participated in the SmartLivingEPC final event, titled “Building the Future: Digital Innovations for Energy-Efficient and Sustainable Living”, held in Brussels. During this event, CHRONICLE’s vision, digital tools, and pilot site implementations were showcased, with a strong emphasis on the importance of social innovation and user engagement in the development of effective digital energy solutions.

Same month, CHRONICLE contributed to the openDBL Conference “Advancing Digital Innovations in the Building Sector for a Safer Europe”, held in hybrid format in Ennepetal, Germany. This participation enabled knowledge exchange with an EU sister project and further positioned CHRONICLE within the European digital building innovation community.

In 2025, third year in a row, CHRONICLE participated in Sustainable Places 2025 in Milan, Italy, contributing to the workshop “Smart Readiness in Action: Unlocking Energy Efficiency and Comfort in Buildings”. The workshop brought together six EU-funded projects and provided a joint platform to demonstrate how CHRONICLE’s BIM-to-BEP and BIM-to-SRI tools support streamlined assessment of building energy performance and smart readiness, reinforcing the maturity of the project results at the final stage.

Image 31: CHRONICLE’s Sustainable Places 2025 workshop banner



These diverse joint actions highlight CHRONICLE’s commitment to collaboration and its role in advancing the energy performance and building renovation agenda. By actively participating in and organising workshops, webinars, and conferences, CHRONICLE has positioned itself as a key contributor to the exchange of ideas and the development of innovative solutions within the European building sector.

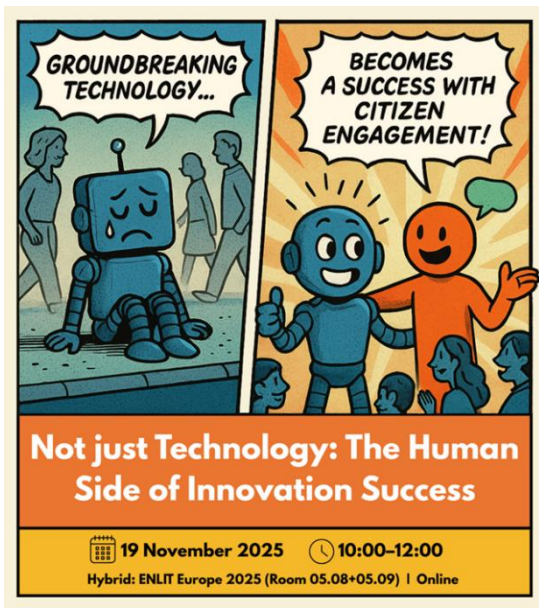
6.3. Final Collaborative Dissemination, Publications and Knowledge Exchange

In the final phase of the project, CHRONICLE invested substantial effort in joint dissemination, publication, and legacy-building activities.

The CHRONICLE final event took place as part of Enlit 2025 in Bilbao, Spain, on 18-20 Nov 2025. On 19 November 2025, CHRONICLE organised and contributed to three workshops:

- **“Not Just Technology: The Human Side of Innovation Success”** – a joint Social Innovation Workshop bringing together the Horizon Europe projects CHRONICLE, PROBONO, REEFLEX, eFORT, and FORTESIE, focusing on inclusion, trust, and citizen engagement as critical success factors for innovation.
- **“Making building data work: tools, solutions and outcomes from the CHRONICLE project”** – a Technical Innovation Workshop addressing how scalable data infrastructures and building data can deliver stakeholder value and drive renovation actions.
- **“Smart Cities: From Buildings to Neighbourhoods and Transportation”** – a workshop highlighting integrated smart solutions, with participation from EU projects WeForming, EV4EU, BilbOPS, ALRIGH2t, GIANTS, and BuildOn.

Image 32 Posters from the two CHRONICLE workshops at Enlit 2025



SIN organised a stand in the EU Project Zone where CHRONICLE was represented, together with several other projects. The project brochure and an informative video were presented at this stand.

Image 33 Photos of CHRONICLE project partners and the stand at Enlit 2025



In December 2025, CHRONICLE further reinforced cross-project collaboration by contributing to the webinar series “**Accelerating Europe’s Renovation Wave**”, organised jointly with Citizen-led Renovation (CLR) and the EU-funded projects MULTICARE, INPERSO, EBENTO, and SUPERSHINE. CHRONICLE participated in two key sessions:

- 9 December 2025 – “Driving the Renovation Wave Together: Synergies and Lessons Learned Across EU Projects”
- 15 December 2025 – “Policy Synergies: Aligning Project Results with EPBD and National Renovation Plans”

Beyond dissemination, CHRONICLE also contributed to joint technical publications. In 2025, CHRONICLE contributed to a paper exploring current definitions of the concept of “digital twin applied to the built environment”. The research developed in collaboration with the Building Digital Twin Association, Digital Twins for Infrastructures & Cities, and the EU project DIGITWIN4CIUE. This paper is published in the Journal “Applied Sciences” under CC BY 4.0 license. Citation:

A. Aragón, M. Arquier, O.B. Tokdemir, et al. (2025). Seeking a definition of Digital Twins for construction and infrastructure management. *Applied Sciences*, 15(3), 1557. <https://doi.org/10.3390/app15031557>.

CHRONICLE also contributed to research related to the integration of environmental information from construction products into BIM, for sustainability assessment purposes. This paper is published in the Journal “Developments in the Built Environment” under CC BY 4.0 license. Citation:

A. Aragón, O. Nieto, A. Rønning, E. Schulze, M.G. Alberti, R.M. Pavón (2025), Gaps in the machine-interpretability of ISO 22057 EPDs: identification and proposals for a revised international standard, *Developments in the Built Environment*, 24, 100790. <https://doi.org/10.1016/j.dibe.2025.100790>.

In addition, CHRONICLE co-authored the technical article “Bridging the Gap Between BIM, BEM, and SRI” with BUILD UP – The European Portal for Energy Efficiency and Renewable Energy in Buildings, demonstrating EPBD-compliant renovation planning through automated BIM-to-BEP and BIM-to-SRI workflows.

Overall, these additional and coordinated synergies—spanning networks, joint events, publications, online platforms, and cross-project communication—were instrumental in the successful finalisation of the CHRONICLE project. They ensured strong alignment with EU policy priorities, enhanced visibility and credibility among stakeholders, and established robust pathways for continued collaboration and impact beyond the project’s conclusion.

7. Measuring Impact

Each partner is responsible for the monitoring of their own dissemination activities and to report the progress to the partner's dissemination leader who is in contact with the C&D team. All partners are responsible for liaising with the local and regional media for dissemination purposes. In addition, external project materials will be reviewed together with the Project Outreach Plan & Activities to comply with quality standards.

7.1. KPI's

The grant agreement states the following KPI's for C&D channels and materials, with the status provided at M42:

Table 14: KPI's for C&D channels and materials

Channels/ Materials	Metrics method	Expected results	Status at M42 (Dec 2025)
Website	Number of visits	<ul style="list-style-type: none"> • 5.000 page views • 2.000 entrances • 5% CTR 	<ul style="list-style-type: none"> • 16.000 pageviews, of which 13.247 unique pageviews • 7923 visits, of which 5333 new visits • 382 downloads, of which 346 unique downloads • 33% of visitors move on to see more pages
Newsletters	Engagement rate	<ul style="list-style-type: none"> • 30% opens • 10% click on links 	<ul style="list-style-type: none"> • 49.6% opens on average • 5.4% clicks on average
Social media	Number of updates	<ul style="list-style-type: none"> • LinkedIn: At least 1 update a month • Instagram: At least 1 update a month • Twitter: At least 2 updates a month 	<ul style="list-style-type: none"> • LinkedIn: a total of 75 posts, which is an average of 1.8 posts per month. • Instagram: discontinued • X: discontinued
Project publications	Articles and proceedings	3 publications per year on average	5 published articles, 1 under review and 2 PhD thesis in progress (finished in 2026)
	Open access repository	1 deposit per year	3 deposits on the CHRONICLE Zenodo community account

	Project video and slideshow	1.000 impressions and 3.000 visibility	<ul style="list-style-type: none"> • The first video post had 340 impressions, 53 engagements and 31 clicks. • The second video post had 104 views, 269 Impressions, 29 engagements and 12 clicks • Slideshow had 1,483 impressions, 268 engagements. • The project tools demo video was presented at Enlit which was attended by ca. 15.000 attendees.
Events	Number	<ul style="list-style-type: none"> • 3 presentations & feedback sessions • 3 training sessions • 30+ external events 	<ul style="list-style-type: none"> • 12 sessions or surveys to collect feedback from professionals and residents • 32 external events
Leaflet		1 initial version + update	<ul style="list-style-type: none"> • 1 initial PDF version for residents • 1 printed version for residents • 1 brochure for professional stakeholders • 1 leaflet for Enlit workshops
Poster		1 initial version + update	<ul style="list-style-type: none"> • 1 rollup produced for UIA, July 2023 • 2 digital posters for Enlit 2025 workshops
PPT		1 initial version + update	<ul style="list-style-type: none"> • 1 PPT produced for Enlit 28-30 Nov 2023 Paris, France • 1 PPT for Rebuild Rehabilita - Oct 2024, Spain • 1 PPT produced for Enlit 18-19 Nov 2025 Bilbao, Spain

7.2. Potential Risks and Mitigations

Potential risks associated with C&D activities may include:

- Communication and dissemination initiatives are not reaching the planned audience.
- Poor communication with relevant stakeholders, leading to potential lack of participation.
- Low project visibility due to poor dissemination activities, although the project is running fine.

To mitigate these risks, the following actions are considered:

- Set clear objectives based on the knowledge of the target audience.
- Ensure a clear map of stakeholders and ensure a clear message across all dissemination material.
- Making use of alternative tools to those suggested to properly disseminate project results (other media, networks etc.)

7.3. Actual Problems, Deviations and Resolutions

Throughout the duration of the project, we have experienced the following issues:

- The KPI for publications of an average of 3 articles per year does not acknowledge that the first years of a project do not have enough results to be published yet. Hence, this goal can only be achieved in the final year of the project, with some publications still being under review or planned for 2026.
- The consortium decided to interrupt activity on X for various reasons, mainly because the platform was no longer as effective for the project's goals. For this reason, the KPIs related to this social network – as well as those for Instagram - will not be achievable.
- The EU Portal for the reporting of C&D activities has been changed. Previously, it was possible to upload tracking tables in excel format, which was a quick and efficient method. In 2024, it changed to online forms which have to be filled out manually for each activity. This required a drastic amendment of the tracking table and involved a lot of work to manually enter data.
- The creation of a stakeholder database had initially a delay because of GDPR considerations. This was resolved by recording stakeholder data anonymously (only initials, no email) and keeping the corresponding partner responsible for the communications.

9. References

The CHRONICLE Outreach Plan & Activities builds on the experiences and results of numerous EU projects. Among the latest can be mentioned:

- XPRESS (www.xpress-h2020.eu)
- RINNO (www.rinno-h2020.eu)
- InteGRIDy (www.integrity.eu)

Furthermore, Horizon's Result Platform has been of great inspiration.

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