



DISSEMINATION, COMMUNICATION, AND STANDARDISATION PLAN

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Dissemination, Communication, and Standardisation Plan

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Abstract	<p>This Deliverable presents COP-PILOT's strategy for Communication, Dissemination, Standardisation, and Clustering. It defines the principal methodologies and instruments designed to enhance the project's visibility, stakeholder engagement, and long-term impact.</p> <p>The Communication and Dissemination section outlines the strategic approach and provides a timeline of short- and long-term tactics and tools for the project as a whole and for each of the four Clusters.</p> <p>The Standardisation section details the plan for COP-PILOT's interaction with external stakeholders and relevant standardisation bodies, facilitating the broader adoption and alignment of project results.</p> <p>The Clustering strategy ensures that the knowledge, technologies, and innovations generated within COP-PILOT are effectively disseminated to the relevant communities and networks, thereby maximising value creation.</p>
Keywords	Communication, Dissemination, Standardisation, Clustering, Liaisons

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EXECUTIVE SUMMARY

COP-PILOT is an EU-funded Innovation Action focused on the development of a Collaborative Open Platform (COP) piloting framework. The platform is designed to orchestrate services across heterogeneous industrial sectors and domains, spanning the entire IoT-to-edge-to-core computing continuum. It aims to deliver secure, automated, and intelligent service management within a unified, standards-compliant environment capable of supporting complex, large-scale deployments.

In parallel with the platform's technical advancements, COP-PILOT places strong emphasis on stakeholder engagement and visibility. To this end, comprehensive strategies for Communication, Dissemination, Standardisation, and Clustering are essential. This Deliverable presents the strategic approach adopted to communicate COP-PILOT's objectives, innovations, and outcomes to its target audiences. It details the defined audiences, selected communication channels, planned activities, and associated Key Performance Indicators (KPIs) across Communication, Dissemination, Standardisation, and Clustering. These measures are intended to ensure effective outreach, promote uptake of project results, and establish a solid foundation for long-term impact and cross-sector collaboration.

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ABBREVIATIONS

AI	Artificial Intelligence
API	Application Programming Interface
CKTP	Clustering and Knowledge Transfer Plan
DER	Distributed Energy Resources
DSO	Distribution System Operator
ESG	Environmental, Social, and Governance
ETSI	European Telecommunications Standards Institute
FMIS	Farm Management Information System
IPR	Intellectual Property Rights
KPI	Key Performance Indicator
ML	Machine Learning
OS	Operating System
RES	Renewable Energy Sources
SDO	Standards Development Organization
SERI	Swiss State Secretariat for Education, Research and Innovation
SLA	Service Level Agreement
UAV	Unmanned Aerial Vehicle
UGV	Unmanned Ground Vehicle
V2G	Vehicle-to-Grid

1 INTRODUCTION

1.1 PURPOSE OF THE DOCUMENT

This Deliverable presents the strategic plan for Dissemination, Communication, Clustering, and Standardisation activities as defined under Work Package 7 of the COP-PILOT Grant Agreement. It describes the project's overarching strategic framework and outreach methodology, summarising activities undertaken from Month 1 (M01) to Month 18 (M18) and outlining planned initiatives designed to achieve the project's objectives while supporting partners' operational activities.

Additionally, the Deliverable establishes a coordinated approach for collaboration with key stakeholders, including the European Commission and other Horizon Europe projects, ensuring alignment and maximizing the impact of project results. Beyond detailing the COP-PILOT strategies for Communication, Dissemination, Clustering, and Standardisation, this document provides an initial report on the activities performed, including communication and dissemination materials developed and deployed during the first 18 months. This framework ensures continuous engagement with both internal and external audiences, laying the foundation for successful project execution from inception through completion.

1.2 STRUCTURE OF THE DOCUMENT

The document is structured in 4 sections:

- **Chapter 1: Introduction**
- **Chapter 2: Communication and Dissemination Strategy** - This chapter presents the overall strategy for COP-PILOT, including tailored approaches for each Cluster, and outlines the set of methods and instruments developed to increase visibility and awareness of the project's results across all target audiences.
- **Chapter 3: Clustering and Knowledge Transfer** – Introduces the Clustering and Knowledge Transfer Strategy, covering COP-PILOT's approach to ecosystem collaboration, stakeholder engagement, and knowledge sharing.
- **Chapter 4: Standardisation** - This chapter presents the COP-PILOT Standardisation Strategy, covering the project's objectives, engagement with standards bodies and open-source communities, mechanisms for coordinating contributions, and key achievements and ongoing activities supporting the long-term impact of project results.

2 COMMUNICATION AND DISSEMINATION STRATEGY

2.1 OVERVIEW OF THE COMMUNICATION AND DISSEMINATION APPROACH

A clearly defined communication and dissemination strategy is essential as a foundation for implementing an effective dissemination and communication plan. The following sections outline COP-PILOT's strategic approach, including communication and dissemination objectives, target audiences, and the phases, channels, and methods that will guide these activities.

The primary objective of **Communication** is to **increase awareness and visibility** of the COP-PILOT project, its objectives and scope, the activities conducted by consortium partners, and the resulting outcomes. The communication strategy has been developed both at the overall project level and for each Cluster.

The central aim of **Dissemination** is to **facilitate knowledge transfer and ensure project results are accessible to industry stakeholders, researchers, and policymakers**. In line with the communication strategy, dissemination activities have been planned at both the project level and within each Cluster, which correspond to emerging vertical sectors: Industry (including mining, manufacturing, and recycling), Smart Buildings and Smart Cities, Agriculture, and Vineyards. This structured, cluster-oriented approach enables COP-PILOT to deliver relevant content to the appropriate audiences, monitor impact across sectors, and enhance the visibility and applicability of its innovations. By aligning dissemination activities with the project's structure, this strategy helps bridge the gap between research and practical application, fostering understanding, supporting adoption, and laying the groundwork for long-term exploitation.

2.2 COP-PILOT OBJECTIVES

The COP-PILOT project is organised around seven principal objectives, each supporting the development and deployment of a collaborative open platform for service orchestration across multiple industrial sectors. These objectives are aimed at advancing multi-domain orchestration, AI-enabled service management, and automated platform operations.

- **OB1: Develop and Implement an Open Platform:** Create a platform for deploying applications across heterogeneous domains, utilizing the IoT-to-edge-to-core continuum.
- **OB2: Create AI-Based Extensions:** Develop AI tools to simplify service onboarding and link SLAs with automated platform services.
- **OB3: Create an "Auto-Pilot" Tool:** Develop a tool for automated platform expansion and policy-driven resource allocation across the cloud continuum.
- **OB4: Design Piloting Clusters:** Design clusters to integrate the platform framework and interconnect pilot use cases.
- **OB5: Showcase Piloting Use Cases:** Highlight innovative use cases in key industrial sectors, emphasizing cross-sector collaboration.

- **OB6: Analyse Market and Sustainability:** Assess the market potential and sustainability impact of the platform and use case sectors.
- **OB7: Maximize Impact and Adoption:** Promote the platform through communication, dissemination, and standardisation, and attract third-party participation.

These objectives establish the key directions for the development of the COP-PILOT project. The consortium is dedicated to implementing a comprehensive Communication and Dissemination strategy to enhance visibility, promote adoption, and support the long-term sustainability of the platform and its associated use cases. To achieve this, the consortium will employ a combination of tactics and tools to effectively convey the project's progress, results, and potential impact to the relevant target audiences.

2.3 COP-PILOT TARGET AUDIENCES

The success of the COP-PILOT project relies on effectively engaging a broad and diverse set of stakeholders. To maximize the impact and adoption of the project's results, it is essential to identify the specific needs and interests of each target group. Understanding these audiences enables the design of tailored communication and dissemination strategies, ensuring that relevant information is delivered efficiently and fostering meaningful engagement.

Accordingly, the project's Communication and Dissemination strategy is structured to focus on the following key audiences:

- A) Cloud, edge, and IoT service providers and users;
- B) Critical infrastructures operators and owners;
- C) Public Sector;
- D) Knowledge Providers;
- E) Entrepreneurial ecosystems and Technology;
- F) Civil Sector;
- G) Policymakers.

This document presents detailed plans for each of these target audiences, ensuring that the project's communication and dissemination activities are focused, effective, and aligned with advancing the project's objectives.

2.4 COP-PILOT KPIS

The success of the project depends on engaging key stakeholders, each with specific needs and interests. This requires a tailored approach to communication and dissemination, ensuring that relevant messages reach the appropriate audiences through the most effective channels.

To monitor and enhance the effectiveness of these approaches, the project has defined measurable actions supported by clear Key Performance Indicators (KPIs). These audience-specific KPIs are

presented in two tables within this document: the first outlines communication tactics and tools, while the second focuses on dissemination activities.

KPI	Impact	Target groups	Target impact
Project website and contents	Engage registrants + build visibility	All	>3000 visits
Project identity and branding	Achieve recognition and brand awareness	All	>3000 views (online + live)
Blogs and related web content	Engage and grow community, publish regular updates	A, B, D, E	≥ 24 entries, > 250 readers
Social media accounts	Engage and grow community, publish regular updates	A, B, D, E	> 250 followers, >2000 views
Videos on YouTube channel	Visually engage users and inform	A, B, D, E	≥5 videos, >1000 views
Publicly available presentations	Visually engage users and inform	A, B, C, E	>300 views, > 80 downloads
Presentations in booths	Face-to-face engagement	All	≥ 3 presentations, > 500 visits, ≥ 1500, >100 new contacts
Leaflets and flyers distributed	Face-to-face engagement	All	≥ 3 presentations, > 500 visits, ≥ 1500, >100 new contacts
Interviews and press releases	Tailored messages to specific audiences	A, B, D, E	≥ 8 actions, > 1000 viewers
Newsletters and mail campaigns	Tailored messages to specific audiences	All	≥ 4 newsletters, >100 recipients

Table 1: Summary of communication KPIs, including target groups and impact

(Target Groups: A – Cloud, edge, and IoT service providers and users; B - Critical infrastructures operators and owners; C – Public Sector; D – Knowledge Providers; E – Entrepreneurial ecosystems and Technology; F – Civil Sector; G – Policy Makers)

KPI	Impact	Target groups	Target impact
Scientific papers in high-impact topic-specific journals	≥ 10	A, D, E	Audience > 200 readers
Technical publications/white papers	≥ 10	A, B, D, E	Audience > 200 readers
Scientific papers in high-impact topic-conferences/workshops	≥ 30	A, D, E	Audience > 500 persons
Participation in symposia and industrial exhibitions	≥ 3	A, B, D, E	>20 new contacts made
Liaisons established with other research projects/consortia	≥ 5	A, B, D, E	>5 common events
Open Strategic Impact workshops	≥ 4	All	> 400 participants
Industry links	> 25	A, B, C, E, F	≥ 5 future investors interested
Standardisation liaisons	≥ 3	G	> 100 WG/TC members
Open Call Awareness online workshops	≥ 4	A, B, D, E	> 100 participants
Open online Scientific & Technical workshops	≥ 2	A, B, D, E	> 200 participants
Showcasing Events	≥ 1	All	> 500 participants

Table 2: Summary of dissemination KPIs, including target groups and impact

(Target Groups: A – Cloud, edge, and IoT service providers and users; B – Critical infrastructures operators and owners; C – Public Sector; D – Knowledge Providers; E – Entrepreneurial ecosystems and Technology; F – Civil Sector; G – Policy Makers)

2.5 COMMUNICATION ACTIVITIES AT THE PROJECT LEVEL

2.5.1 Internal Communication

To support the efficiency and overall success of the project, clear, smooth internal communication is essential. COP-PILOT has put in place a set of tools and resources to enable effective collaboration and easy exchange of information among all partners.

- **SharePoint Platform:** To facilitate access to information and support effective collaboration, a secure, password-protected SharePoint has been established. It serves as a central repository for key project materials, including documentation, distribution lists, meeting schedules, presentations, summaries, and other essential resources. In addition, it provides an overview of the project's progress, including key management indicators such as resource allocation, financial status, deliverables, and partner contact details. The workspace is maintained by the project coordinator, Netcompany, and is accessible via the following link: <https://netcompany.sharepoint.com/sites/NCTMS.Project.RID.COP-PILOT/>
- **Distribution Lists:** A series of dedicated email distribution lists has been set up to support communication across different project teams. A general list is used to share project-wide updates with all partners, while more specific lists (covering general topics, technical discussions, and individual work packages) allow for more focused exchanges. Netcompany manages and maintains these lists to ensure they remain accurate and up to date.
- **Secure Messaging:** In line with its commitment to cybersecurity and data protection, COP-PILOT uses Microsoft Teams as the secure platform for internal communication across the consortium.
- **Consortium Meetings:** Netcompany organises weekly meetings with the Work Package Leaders and the Project Board. These meetings are used to review progress across work packages, address emerging challenges, and agree on appropriate actions. After each session, the minutes or recordings, along with any agreed action points, are uploaded to the SharePoint repository.

In addition, there is a weekly Technical meeting, and some Work Package Leaders hold regular team meetings (on a weekly, bi-weekly, or monthly basis, depending on the needs of the work package). These meetings provide a space to monitor progress, discuss and resolve outstanding issues, and plan upcoming activities. The outcomes, together with any supporting materials, are documented and stored on the project SharePoint.

Finally, face-to-face General Assembly meetings are organised twice a year to ensure alignment across the consortium and to support the resolution of open issues at the project level. To date, besides the Kick-off meeting, the General Assembly meetings have been organized in Valencia (M10) and Athens (M17).

2.5.2 Internal Communication

2.5.2.1 Project Identity

A clear and consistent visual identity plays a key role in how the project is perceived and understood. A strong and distinctive brand identity has been developed to give COP-PILOT a unique and recognizable image. These brand guidelines and elements are applied across all Communication and Dissemination materials produced during the project, and all partners are expected to follow them in their respective activities. For full details on the COP-PILOT brand identity and guidance on maintaining a consistent visual representation, please refer to Appendix A.

2.5.2.2 Website

The COP-PILOT website functions as the central online platform to communicate and disseminate the project's various activities. Its underlying structure is based on the following architecture:

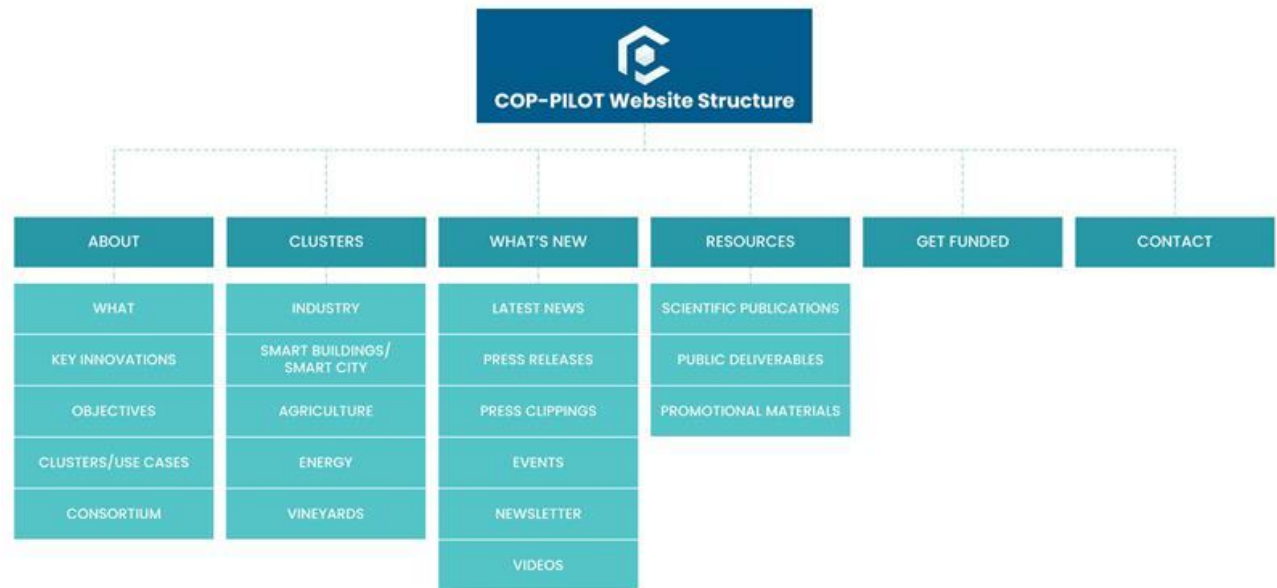


Figure 1: COP-PILOT Website architecture

- The [Home](#) page is designed for easy navigation, giving visitors direct access to all key public information. This includes the project's vision and mission, an explanation of its name, its main features, an overview of the consortium, a presentation of the clusters, the latest news, and links to its social media channels.
- The [About](#) tab provides detailed information on the project's objectives, the innovations it seeks to deliver, and the consortium partners.
- The [Clusters](#) section offers an overview of the project's four Clusters and their individual use cases. Designed as a dynamic page, the information behind each Cluster is constantly updated with information about cluster-related news, events, videos, and scientific papers, to reflect their work and progress in achieving the overall objectives of the projects and the specific Communication and Dissemination KPIs.
- The [What's New](#) section serves as an active hub for project updates, including news items, press releases, media coverage, event presentations, newsletters, and project videos.
- The [Resources](#) tab hosts scientific publications, publicly available deliverables, and promotional materials related to the project.
- A dedicated [Open Calls](#) tab was launched alongside the first Open Call. It provided information on the timeline, application process, and frequently asked questions. Once the winners were selected, the tab (together with social media channels and press releases) was used to announce and share information about the successful applicants.
- The [Contact](#) section offers a direct way for visitors to get in touch with the project team through a dedicated contact form. Messages submitted via the form are sent to info@cop-pilot.eu and forwarded to the relevant project partners for review and response. The section also includes links to the project's social media profiles and an option to subscribe to the newsletter. All

collected information and communications are managed in accordance with GDPR requirements.

To properly credit the European Union's financial support, the EU and SERI logos, along with the statements below, are featured on the website:

“Co-funded by the European Union (COP-PILOT, 101189819). Views and opinions expressed are, however those of the author(s) only and do not necessarily reflect those of the European Union. Neither the European Union nor the granting authority can be held responsible for them. This work has received funding from the Swiss State Secretariat for Education, Research and Innovation (SERI).”

In line with GDPR requirements, the website provides clear information on its data collection and usage practices through the Privacy Policy and Cookie Policy links in the footer. The COP-PILOT website also functions as a key tool for evaluating the impact of the project’s communication and dissemination activities by analysing web analytics data.

The consortium uses Matomo, a privacy-focused analytics platform, to generate detailed reports on communication campaigns, website traffic, user acquisition channels, and overall performance. Matomo fully complies with GDPR, ensuring that all collected data is secure and owned by the consortium.

From the website's launch until June 15th 2026, the platform has registered 26.060 visits, encompassing over 44.435 unique pageviews, with visitors engaging with the content for an average of 2 min 57 sec. Of these visits, 16.253 were direct entries, 4.706 came from search engines, 2.901 from other websites, and 1.465 from social networks, as illustrated in Figures 2 and 3.

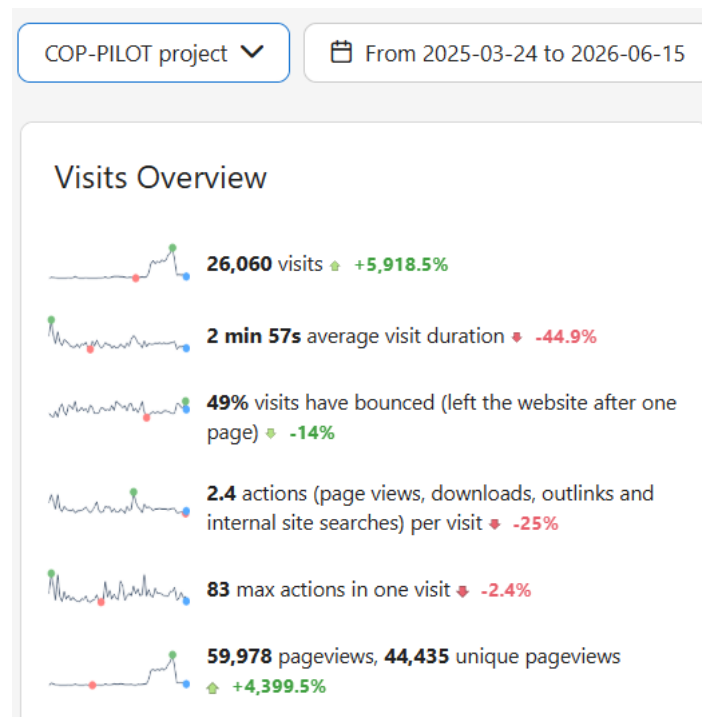


Figure 2: COP-PILOT Website – Visits Overview

Channel Type	▼ Visits	Actions
Direct Entry	16,253	36,703
+ Search Engines  	4,706	13,059
+ Websites	2,901	7,769
+ Social Networks	1,465	3,515
+ Campaigns	498	611

Figure 3: COP-PILOT Website – Channel Types

Since the website's launch, our efforts to amplify website traffic have centred on the following key strategies:

- **Search Engine Optimization (SEO):** The number of visitors to the project website is expected to grow steadily over the course of the project, driven by strategies focused on using relevant keywords and targeting search topics that are most likely to reach interested audiences.
- **Link Building:** We are creating a network of interconnected links across the project website, partner sites, and other relevant initiatives. The COP-PILOT website is, and will continue to be, linked to the following online resources:
 - All consortium partners' websites
 - Social media platforms – all project posts on LinkedIn and Mastodon incorporate links to various sections of the website
 - Event websites (link integration will increase with participation in relevant events). One example can be found here: <https://cop-pilot.eu/event/21st-international-conference-on-artificial-intelligence-applications-and-innovations/>
 - European Commission websites (<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/competitive-calls-cs/8501>)
 - SERI
 - Tools utilized (e.g., Matomo)

As the central hub for dissemination, the COP-PILOT website will be continuously updated throughout the project. It will showcase the latest activities and achievements, organized by overall project and Clusters, using news articles, videos, papers, etc. Special attention will be given to optimizing keywords and cross-linking to ensure consistent and targeted traffic to the site.

2.5.2.3 Blog Posts

By M15, the project partners published a series of blog posts to introduce the project and highlight the specific contributions of each partner. As the project progresses, partners will continue sharing updates on their work and the results achieved.

The table below includes only the articles covering the overall project published so far, while blog posts specific to each Cluster's activities are presented in the Cluster section of this document.

Partner	Topic	Timing	Links
BPO	Blog post - General information on the project	M1	https://aegeanterra.gr/news/to-vioaerio-prevezas-simmetechi-sto-europaiko-programma-horizon-cop-pilot/
UoP	Project launch	M1	https://nam.ece.upatras.gr/cop-pilot/
JIG	Project launch	M2	https://www.jig.es/jig-impulsa-la-digitalizacion-industrial-en-europa-con-el-proyecto-cop-pilot/
Konnektable	Project launch	M2	https://konnektable.com/research/cop-pilot/
Ubitech	Project launch	M2	https://ubitech.eu/ubitech-kicks-of-the-cop-pilot-innovation-action-on-emerging-smart-iot-and-edge-computing-environments/
Kingston	Project launch	M2	https://www.kingston.ac.uk/news/article/3004/13-feb-2025-kingston-business-school-at-the-forefront-of-groundbreaking-eufunded-research-on-6g-and-edge-computing/
PNET	Project launch	M2	https://p-net.gr/cop-pilot/
VPF	Project Launch	M2	The COP-PILOT project will develop an intelligent IoT platform for advanced maritime and land traffic management - Fundación Valenciaport
D4P	Project launch	M3	https://digital4planet.org/cop-pilot-enabling-the-future-of-collaborative-edge-computing/
Univ of Bradford	Project launch	M3	https://www.bradford.ac.uk/news/archive/2025/bradford-seals-1m-funding-for-6g-research-projects.php
AGA	Project launch	M3	https://agroapps.gr/en/news/189
D4P, UoP, PNET	Blog spot on Cross-Sector Orchestration	M4	https://cop-pilot.eu/2025/04/25/accelerating-cross-sector-orchestration-cop-pilots-integration-with-etsis-openslice/
IPN	Project Launch	M4	https://www.ipn.pt/noticias/noticia/4096?uri=%2F
D4P, FIWARE, NetFoundry	COP-PILOT Contributes to ETSI ISG CIM Plenary	M6	https://cop-pilot.eu/2025/06/20/cop-pilot-contributes-to-etsi-isg-cim-plenary/

VCH	General update on the València pilot	M6	https://valenciainnovationcapital.com/valencia-lidera-la-transformacion-urbana-con-inteligencia-artificial-a-traves-del-proyecto-europeo-cop-pilot/
FIVE	General information on the project and FIVE's role	M6	https://fivecomm.eu/cop-pilot/
NES	General project information and Nespra's role	M6	https://nespra.net/innovacion/cop-pilot/
FIWARE	Blogpost General Project info + FIWARE's role	M6	https://www.fiware.org/2025/06/17/empowering-cross-sector-innovation-at-the-edge-the-cop-pilot-project/
D4P	COP-PILOT Showcased at AIOTI 2025	M10	https://cop-pilot.eu/2025/10/02/cop-pilot-showcased-at-aioti-2025-building-the-cities-5-0-vision/
ARTHUR	Making Sense of Multi-Sensing – Taking Back Control in the Digital Age	M11	https://cop-pilot.eu/2025/11/14/making-sense-of-multi-sensing/
Konnektable	Plenary in Valencia	M11	https://konnektable.com/news/cop-pilot-plenary-in-valencia/
ONE	AI-Driven Resource Scheduling	M13	https://cop-pilot.eu/2026/01/15/ai-driven-resource-scheduling-for-cloud-edge-applications/
UBI, UoP, D4P	Multidomain Orchestration at ETSI ZSM PoC 16 Webinar	M12	https://cop-pilot.eu/2025/12/24/advancing-multi-domain-orchestration-compelling-demonstration-at-the-etsi-zsm-poc-16-webinar/
UBI, D4P	HypO joined ETSI group	M15	https://cop-pilot.eu/2026/03/30/hypo-ubitechs-hyper-orchestrator-joins-etsi-software-development-group/
VPF	3 rd plenary meeting	M17	https://valenciainnovationcapital.com/valencia-innovation-capital-participa-en-tercera-reunion-plenaria-del-proyecto-europeo-cop-pilot-en-atenas/
UBI, D4P	Multidomain orchestration	M17	https://cop-pilot.eu/2026/05/07/transforming-multi-domain-orchestration-through-data-awareness/
Cluster 4, D4P	Cluster 4 – 3 rd Pilot	M17	https://cop-pilot.eu/2026/05/12/cop-pilot-cluster-4-avipe-2026/

D4P	Code Continuum Hackathon	M18	https://cop-pilot.eu/2026/06/03/cop-pilot-co-organizes-the-code-the-continuum-hackathon-in-cagliari/
UoP, UBI, P-NET, TATA, Cluster 2, D4P	COP-PILOT at EuCNC	M18	https://cop-pilot.eu/2026/06/08/cop-pilot-showcased-platform-innovation-smart-cities-and-remote-driving-at-eucnc-6g-summit-2026/

Table 3: Blog posts published to date by the consortium partners

2.5.2.4 Social Media

COP-PILOT maintains an active presence on social media through [LinkedIn](#), Mastodon, and YouTube channels. The strategy focuses on regularly sharing timely and relevant updates about the project. The main content themes include:

- **Introductory themes:**
- **Project description** – this theme was used at the launch of the project, to introduce it and to describe the pilots.
- **Meet the Consortium Members** – this theme was used to present all consortium partners;
- **[Clusters introduction](#)** – for each of the 5 Clusters and subclusters, videos were created for an Overview presentation and partners introduction.
- **Event Participations:** All partner participation in events is shared across the project website and social media channels. This approach helps extend the project’s reach and attract more visitors to the website.
- **Media Coverage** and Press Mentions
- **Open Calls:** The first Open Call received consistent promotion throughout their lifecycle: before launch, [during the submission period](#), and will be furthered by featuring the selected winners. Similar strategy will be put in place for the second Open Call.
- **Project-Hosted Webinars:** The webinars were hosted as part of the Open Calls support program ([example1](#), [example2](#)) as well as part of the collaboration with other projects/CSAs (example).
- **Collaborations with Coordination and Support Actions (CSAs):** COP-PILOT issued a joint press release with CEI-Sphere, which was also promoted via the project’s social media channels. Furthermore, COP-PILOT actively engages in cross-sharing content from the EUCloudEdgeloT LinkedIn account (the official channel for the CEI-Sphere and NexusForumEU CSAs), fostering ongoing visibility and collaborative engagement.
- **Progress in Standardisation Activities:** activities focusing on standardisation were constantly reflected in social media ([example1](#), [example2](#)). In the future, progress on standardisation will continue to be communicated as per the opportunities detailed in Chapter 3.
- **Knowledge transfer:** Refer to the opportunities outlined in Chapter 4.

The posting schedule involves a minimum of two posts per week.

The consortium partners' social media accounts are being used, and will continue to be used, as part of the project's wider social media strategy.

2.5.2.4.1 LinkedIn

From 28 January 2025 to June 2026, the project's LinkedIn page gained 870 followers, generating over 88.330 organic impressions, 41.540 connections and 3.392 reactions. The ongoing strategy aims to further grow both the follower base and engagement by maintaining the established posting frequency and focusing on the key content areas outlined above.

In addition to activity on the official COP-PILOT LinkedIn page, consortium partners also shared posts via their own LinkedIn accounts during the same period, further increasing awareness of the project.

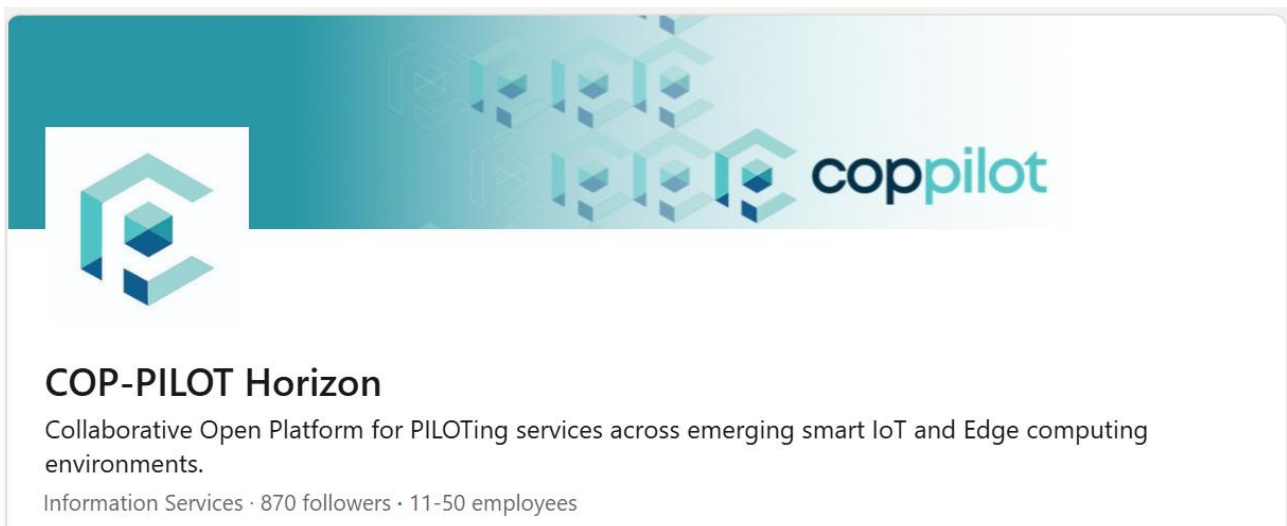


Figure 4: COP-PILOT LinkedIn Header

2.5.2.4.2 Mastodon

From 28 January 2025 to June 15th 2026, the project's Mastodon page gained 30 followers through a total of 123 posts. The future strategy focuses on maintaining the current posting schedule while further increasing both the follower base and engagement by prioritizing the key content themes outlined above.

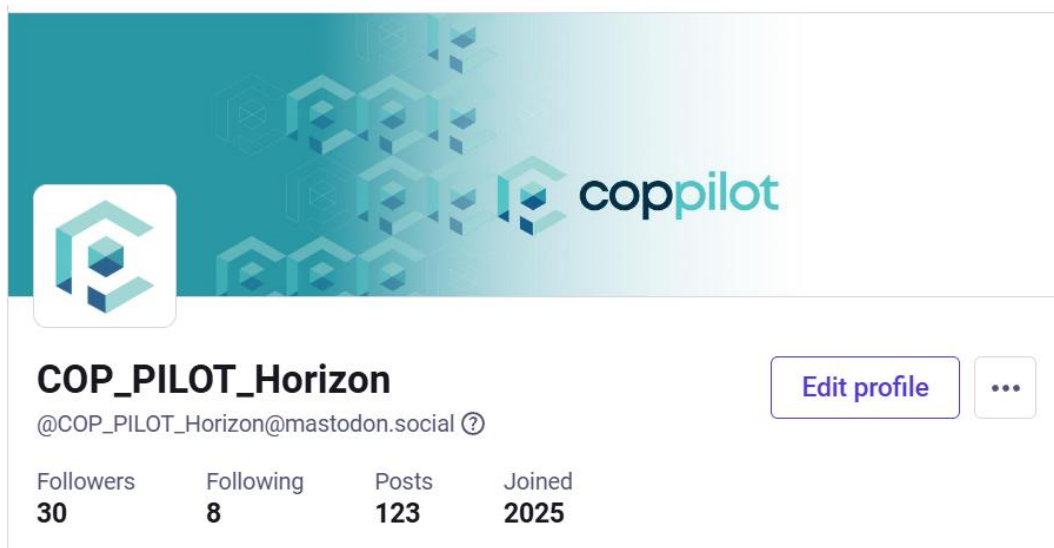


Figure 5: COP-PILOT Mastodon Header

2.5.2.4.3 YouTube/Videos

A dedicated YouTube channel was established as the main platform for all COP-PILOT video content. During the first half of the project, its activities and achievements were presented via 17 videos, structured in the following playlists:

- [COP-PILOT Horizon Project Overview](#)
- [COP-PILOT Horizon Cluster 1](#)
- [COP-PILOT Horizon Cluster 2](#)
- [COP-PILOT Horizon Cluster 3](#)
- [COP-PILOT Horizon Cluster 4](#)
- [COP-PILOT Horizon Open Calls](#)
- [ETSI ZSM PoC #16](#)

As Clusters and Technical work progress, we will continue to reflect on these activities and performance.

2.5.2.5 Press releases and media coverage

A central element of COP-PILOT's communication strategy is proactive engagement with the press, with the goal of disseminating key milestones and achievements to both media outlets and the wider public. By cultivating relationships with journalists and media organizations, the project aims to increase public awareness and generate broader interest in its advancements and impact.

Each press release and media interaction will underscore significant accomplishments, incorporating insights and quotations from project partners to provide richer detail and context.

To mark the project's commencement, a press release was distributed via Prowly and subsequently published in the Press Releases section of the project website: [link](#).

COP-PILOT collaborated with CEI-Sphere and O-CEI projects on a second media release, which is also available in the Press Releases section of the project website: [link](#), and which was also shared on the social media platforms.

A third press release ([link](#)) was issued to announce the launch of the project's 1st Open Call, and another press release will be issued during July 2026 to announce the winners of this 1st Open Call. Similarly, two more press releases are to be issued for the 2nd Open Call, towards the end of 2026.

Future press releases are planned to highlight technical progress and the outcomes of the use cases as they develop.

To facilitate this, a targeted list of 35 journalists from various European countries (particularly from the countries where the use cases are rolled out), encompassing both general and sector-specific contacts, has been compiled. While broad updates will be widely distributed, a more focused outreach approach will be employed to pitch tailored stories to specific journalists, particularly as pilot activities gain momentum.

Beyond COP-PILOT's central communication initiatives, consortium partners have actively promoted and will continue to promote their project-related activities through relevant local media channels. The media coverage obtained to date is available in the Press Clippings section of the COP-PILOT website (<https://cop-pilot.eu/press-clippings/>) and has also been shared via social media posts.

Timing	Publication/Link	Partner(s) involved
M1	https://cop-pilot.eu/2025/02/21/cop-pilot-desarrollara-una-plataforma-para-gestionar-el-trafico-maritimo-y-terrestre/	VPF
M1	https://cop-pilot.eu/2025/02/21/el-proyecto-cop-pilot-optimizara-la-gestion-del-trafico-maritimo-y-terrestre/	VPF
M2	https://nuevecuatrouno.com/2025/02/14/empresas-jig-digitalizacion-industrial-europa-proyecto-coppilot/	JIG
M3	https://cop-pilot.eu/2025/03/12/un-proyecto-europeo-desarrollara-una-plataforma-iot-inteligente-para-la-gestion-avanzada-en-varios-ambitos-industriales/	VPF
M8	https://cop-pilot.eu/2025/08/28/valencia-supera-els-9-metres-quadrats/ https://www.agronewscomunitatvalenciana.com/index.php/valencia-supera-els-9-metres-quadrats-de-zones-verdes-habitant-i-consolida-el-lideratge-ambiental	VCH
M8	https://cop-pilot.eu/2025/08/28/valencia-consolida-su-liderazgo-verde/	VCH

	https://www.eysmunicipales.es/actualidad/valencia-consolida-su-liderazgo-verde-con-mas-zonas-naturales-innovacion-sostenible-y-alianzas-europeas	
M10	https://www.linkedin.com/posts/jig-es_empresa-activity-7388620500572454912-CJ1A?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAKBqalBY25_an7VJzu2VEpAPUqjq-wRKic chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://media.licdn.com/dms/document/media/v2/D4D1FAQGcGZMSrEp3YA/feeds-hare-document-pdf-analyzed/B4DZolxE86IAAc-0/1761570217921?e=1767225600&v=beta&t=vPWjzuC-RQQWavmIG1yHVOuqgtq7-flaCiJkAxYxpNs&acrobatPromotionSource=linkedin_chrome-post_view	JIG
M10	https://cop-pilot.eu/2025/10/30/piloting-energy-systems-in-europe-hipeac-magazine/	D4P
M11	https://cop-pilot.eu/2025/11/14/el-dia-de-la-rioja-magazine/	JIG
M14	https://nuevecuatrouno.com/2026/02/18/cop-pilot-lanza-una-open-call-con-financiacion-para-soluciones-tecnologicas-innovadoras/	JIG
M14	https://cop-pilot.eu/2026/03/19/alerta-startup-la-oportunidad-europea-que-tu-tecnologia-esperaba-hasta-200-000e/	JIG
M14	Appearance on regional Spanish television in a 10-minute interview about the open calls process and the project. TV interview / LinkedIn / LinkedIn	JIG
M14	https://domosistemas.com/?p=31887	D4P
M14	https://ufukavrupa.org.tr/tr/haberler/cop-pilot-1-acik-cagrisi-basvurulara-acilmistir	D4P
M14	https://ufukavrupa.org.tr/tr/haberler/cop-pilot-acik-cagrisi-basvuruya-acilmistir	D4P
M14	https://ufukavrupa.org.tr/en/news/cop-pilot-project-has-officially-launched-its-first-open-call	D4P
M15	https://cop-pilot.eu/2026/03/19/cop-pilot-lanza-financiacion-para-proyectos-tecnologicos-en-bodegas-y-vinedos/	JIG
M15	https://cop-pilot.eu/2026/03/19/el-proyecto-cop-pilot-lanza-su-primera-convocatoria-para-soluciones-cloud-edge-iot/	JIG
M15	https://laprensadelrioja.com/industria-auxiliar-ultimas-noticias-en-portada/productos-y-servicios-industria-auxiliar-ultimas-noticias-en-portada/cop-pilot-lanza-financiacion-para-proyectos-tecnologicos-en-bodegas-y-vinedos/	JIG

M15	https://cop-pilot.eu/2026/03/19/bogota-anuncia-cinco-convocatorias-internacionales-con-financiacion-millonaria-para-proyectos-de-innovacion-salud-mental-y-cambio-climatico/	D4P
M15	https://lahermosastereo.com/alerta-startup-la-oportunidad-europea-que-tu-tecnologia-esperaba-hasta-200-000e/	D4P
M15	https://laprensadelrioja.com/industria-auxiliar-ultimas-noticias-en-portada/productos-y-servicios-industria-auxiliar-ultimas-noticias-en-portada/cop-pilot-lanza-financiacion-para-proyectos-tecnologicos-en-bodegas-y-vinedos/	JIG
M15	https://www.linkedin.com/posts/la-prensa-del-rioja_bodegas-vino-vinoderioja-activity-7434883226034307073-nJF7?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAKBqalBY25_an7VJzu2VEpAPUqig-wRKic	JIG
M15	https://arge.aku.edu.tr/2026/03/05/cop-pilot-projesi-open-call-1-basvurulari/	D4P
M15	https://www.europainnovazione.com/cop-pilot-lanciato-il-primobando-per-testare-soluzioni-cloud-edge-e-iot-in-contesti-industriali/	D4P
M15	https://www.linkedin.com/posts/smartcitycluster_smartcity-agentesmart-clusterisSMARTER-activity-7435957462316421120-s00A	UPV/Cluster 2
M15	https://bogota.gov.co/internacional/apoyos-financieros-y-premios-internacionales-desde-bogota-marzo-2026	D4P
M15	https://www.fimecor-walter-allinial.com/mag-expert/les-actualites-du-mercredi-11-mars-2026/	D4P
M15	https://www.fimeco-walter-allinial.com/mag-expert/les-actualites-du-mercredi-11-mars-2026/	D4P
M15	https://shepetivka-rada.gov.ua/2026/03/16/aktualni-grantovi-programy-dlya-biznesu/ ; https://grant.market/opp/cop-pilot	D4P
M15	https://www.esmartcity.es/2026/03/12/abierta-convocatoria-proyecto-cop-pilot-financiar-proyectos-ciudades-inteligentes	D4P
M15	https://www.zazoom.it/2026-03-25/cop-pilot-progetti-digitali-avanzati-contributi-fino-a-200mila-euro/18888243/	D4P
M15	https://www.ildenaro.it/cop-pilot-progetti-digitali-avanzati-contributi-fino-a-200mila-euro/	D4P
M15	https://www.ildenaro.it/cop-pilot-progetti-digitali-avanzati-contributi-fino-a-200mila-euro/	D4P
M15	https://www.virgilio.it/italia/napoli/notizie-locali/cop-pilot-progetti-digitali-avanzati-contributi-fino-a-200mila-euro-76629412.html	D4P

M16	https://www.zenit.de/zwoelf-aktuelle-eu-cascade-calls-100-prozent-foerderung-bis-300-000-euro-fuer-kmu-ohne-den-ueblichen-antragsaufwand/	D4P
M16	https://www.nonprofit.hu/palyazatok/COP-PILOT-First-Open-Call	D4P
M16	https://fundsforcompanies.fundsforngos.org/grant/cop-pilot-horizon-1st-open-call-collaborative-solutions-for-real-world-challenges/	D4P
M18	https://nuevecuatrouno.com/2026/06/04/jig-atenas-digitalizacion-bodegas-cop-pilot-horizon/	JIG

Table 4: Media coverage about COP-PILOT

2.5.2.6 Newsletters and mail campaigns

To keep stakeholders informed and engaged, the COP-PILOT project has established a regular newsletter as a key component of its communication and outreach efforts.

This newsletter keeps subscribers up to date with key developments, important milestones, and insights from across the consortium. It provides an overview of project progress, including pilot activities, technical results, participation in events, collaborations, and new content published on the project website or YouTube channel. The newsletter also plays an important role in maintaining visibility and building strong connections with stakeholders from academia, industry, and the public sector.

To date, COP-PILOT has issued two newsletters, with a third one aiming to promote the winners of the 1st Open Call. The newsletter archive is stored under the [Newsletter section](#) of the website. Each newsletter is further promoted through the project's social media channels. Also, the COP-PILOT consortium's activities are promoted via LinkedIn Newsletters.

2.5.2.7 Open Call Communication and Dissemination strategy

Open Calls are an important way for the project to extend its reach and impact by bringing in additional pilots. They create opportunities to engage external stakeholders and incorporate their innovative solutions, strengthening the COP-PILOT ecosystem and expanding the range of expected outcomes. By involving new participants, the project encourages a more diverse and dynamic environment, helping to speed up adoption and increase its overall effectiveness.

To ensure the success of the 1st Open Call, a comprehensive communication strategy was implemented. Its objectives were to:

- Raising awareness of the Open Call and its objectives through the project website, social media, and online workshops;
- Informing potential applicants about the application process through dedicated online workshops;
- Sharing regular reminders and updates via social media channels;
- Promoting the selected winners and highlighting their achievements throughout the project, using the website, social media, and YouTube.

To achieve the above objectives, D4P, acting as the Communication and Dissemination leader, developed a comprehensive toolkit comprising a press release, social media content, and promotional flyers. This toolkit was accompanied by guidance for partners on its effective use, to maximise the impact of the project’s outcomes.

In addition, D4P, in its role as both the Open Call coordinator and Communication and Dissemination leader, directly organised or supported the promotion of the first edition of the Open Call through four dedicated webinars.

The table below presents an overview of the activities carried out to date, as well as the planned ones by the time of the Open Call process.

OC Phase	Timing OC1	Communication tactics and tools
Preparation	M13 - M14	Drive awareness and education via: the project website ; project or partners’ social media channels (example 1 , example 2 , example 3 , example 4) and blog posts (example); webinar with CEI-Sphere ; and press release
During submission phase	M14 – M16	Reminders via social media (example 1 , example 2 , example 3), blog posts (example), and project newsletter . Two webinars organized by D4P and the key partners involved in the Open Call (webinar 1 , webinar 2) Webinar organized by D4P with Sploro .
Evaluation	M17 – M18	Drive information about the website and social media
Awarding	M19	Drive awareness of the winning projects via the website and social media, and a press release to announce the winners.
Execution	M20 – M27	Present the winning pilots via blog posts (website), interviews (YT, SM), and newsletter
Reporting	M28 onwards	Present the results via interviews (written or video), videos about the project, social media, webinars, blog posts, and project newsletter

Table 5: Open Calls - Past and Future Communication activities

2.6 DISEMINATION ACTIVITIES AT THE PROJECT LEVEL

Dissemination within COP-PILOT is carried out both at the overall project level and within each Cluster. This section focuses on activities implemented at the project level. By aligning dissemination efforts with the project’s technical structure, the consortium aims to support the transition of results into practical applications, strengthen stakeholder engagement, and enable long-term uptake.

2.6.1 Scientific papers in high-impact topic-specific journals

COP-PILOT is committed to contributing to the scientific community by publishing its results in peer-reviewed journals. These publications will present key technical and conceptual advancements achieved within the project, covering areas such as standardisation, open source, ICT convergence, and artificial intelligence applications and innovation. Through this approach, the project aims to

validate its work, encourage academic exchange, and position its outcomes within the broader European and international research context.

Over the course of the project, the following journals and topics will be targeted with topics concerning the overall project. The papers published by each Cluster are reflected in the Cluster-specific section of this document.

Timing	Publication	Publication impact factor	COP-PILOT Topic/Article Title	Partner(s) involved
M19	ITU Journal on Future and Evolving Technologies	1.37	Agentic, Intent-Driven End-to-End Service Orchestration with Test-Driven Quality Assurance for 6G Networks	UOP
M20	International Journal of Productivity and Performance Management	3.5	Systematic Literature Review on performance indicators for evaluating technology-enabled solutions.	UBRAD/KUL
M22	Information System Management Journal	5.0	Societal impact of emerging technology adoption, AI and 6G technology evaluation / Information System Management Journal	UBRAD/KUL

Table 6: Publications in Scientific journals concerning the overall project

2.6.2 Technical publications/white papers

The consortium released and will continue to release a series of technical publications and white papers to document the approaches, methods, and results generated within COP-PILOT. These materials are intended to support both technical experts and industry stakeholders by offering detailed insights into specific components of the project, including solutions and best practices. By making this knowledge available, the project seeks to support progress in the field, encourage uptake of the platform, and strengthen its position within the relevant sectors.

Timing	Publication	COP-PILOT Topic/Article Title/Link	Partner(s) involved
M11	Whitepaper	ETSI Whitepaper: AI in the evolution of Autonomous Networks	UOP
M18	White paper	White paper on validation and evaluation methodology	NOVA
M18	White paper	AI-Assisted Platform Orchestration: Enabling Adaptive Digital Ecosystems Through the COP-PILOT Portal	AGE

M18	White paper	Whitepaper on the final COP-PILOT architecture, how it relates to popular open-source platforms in Europe, what standards it implements, and what exploitation strategy it follows	UBI, UOP, TATA, NETC
M19	White paper	ETSI SDG OpenSlice whitepaper: Latest features of ETSI OpenSlice and the new ETSI HypO MDG	UOP, UBI, PNET, TATA

Table 7: Technical publications/whitepapers concerning the overall project

2.6.3 Scientific papers in high-impact topic-conferences/workshops

The consortium shared and will continue to share its research results through scientific papers presented at relevant conferences and workshops. These events provide an opportunity to engage with experts and researchers, exchange knowledge, and build collaborations, while highlighting the project’s contributions to the field. By participating in well-established conferences and workshops, the consortium aims to present its work, support the validation of its results, and contribute to progress in key research areas.

Timing	Scientific paper	Congress/Conference/Event	Partner(s) involved
M6	Cloud-Native Scheduling and Resource Orchestration: A Deep Dive into AI-Driven Approaches	Conference on Artificial Intelligence Applications and Innovations (AIAI 2025)	OneSource
M13	Resource-and-Latency-Aware PSO — A novel algorithm for intelligent and contextual cloud native resource scheduling Demo: RALA-PSO, Intelligent Scheduling of Cloud-Native Applications	IEEE Consumer Communications & Networking Conference 2026	OneSource
M17	Towards Agentic Test-Driven Quality Assurance for 6G Networks (to be presented/published)	European Conference on Networks and Communications (EuCNC) & 6G Summit 2026	UOP
M17	An Agentic Framework for Intent Co-Creation in 6G NaaS: Architecture and Open-Source Model Evaluation (to be presented/published)	International Conference on Network Softwarization 2026	UOP
M17	Bridging the Gap Between Technical Validation and Societal Impact: Evidence from the Large-	European Operations Management Association (EurOMA)	UBRAD/KUL

	scale Edge Computing Piloting Project (accepted, not published yet)		
M18	Bridging Performance and Purpose: A Socio-Technical Framework for Key Value Indicators (KVI) in Digital Platform Ecosystems (accepted, not published yet)	British Academy of Management (BAM)	UBRAD/KUL
M18	Beyond the Performance Trap: A Multi-Level IS Framework for Valuing Disruptive Technology Transitions (accepted, not published yet)	America's Conference on Information Systems (AMCIS)	UBRAD/KUL
M18	Evaluating Edge-Enabled Smart Waste Management in Sustainable Smart Cities: A Multi-Dimensional KPI/KVI Framework (accepted, not published yet)	Digital Government Society (EGOV-CeDEM-ePart)	UBRAD/KUL/ Cluster 2
M18	5G Enabled Smart Agriculture Requirements, Architecture and Key Benefits	Conference on Artificial Intelligence Applications and Innovations (AIAI 2026)	OTE, AgroApps

Table 8: Scientific papers concerning the overall project presented in conferences

2.6.4 Participation in symposia and industrial exhibitions

In addition to the activities described above, the consortium partner attended and will continue to take part in symposia and industry exhibitions covering areas such as artificial intelligence, blockchain, edge computing, digital governance, . These events offer opportunities to engage with researchers, industry stakeholders, and standardisation bodies, while also increasing the project's visibility and reach.

The table below provides an overview of the industry events in which COP-PILOT partners not associated with specific clusters plan to participate during the project.

Name of the event and timing	Topic	Partner	Link with COP-PILOT	Target Audience
CCNC 2026 Website post LinkedIn post Mastodon post	AI, Edge Computing	OneSource	AI-Driven Resource Orchestration	Researchers, industry professionals, and technology practitioners in communications, networking, IoT, and cloud/edge computing

<p>Yorkshire Telecoms Showcase: Connecting and Powering Regional Growth</p> <p>Website post LinkedIn post1 LinkedIn post2 LinkedIn post3 Mastodon post</p>	<p>Digital infrastructure</p>	<p>UBRAD</p>	<p>Project presentation – COP-PILOT role in driving sustainability and impacts of emerging digital technologies on business and society</p>	<p>Industry, government, academia, and the investment community</p>
<p>EurOMA 27 June – 2 July 2026</p> <p>Website</p>	<p>Edge Computing, AI, and Digital Governance</p>	<p>UBRAD/KUL</p>	<p>AI and edge computing, societal impact assessment</p>	<p>Researchers, policymakers, and practitioners interested in AI-driven public sector innovation, ethical digital governance, and socially inclusive technology design</p>
<p>Europe-Korea Conference on Science and Technology (EKC2026) 20 - 23 July 2026</p> <p>Website</p>	<p>Science, Technology, Human Values, and Socio-ecological futures in the Age of AI</p>	<p>KUL/UBRAD</p>	<p>AI and edge computing, Science, Technology, Human Values, Socio-ecological futures in the Age of AI</p>	<p>Researchers, policymakers, and practitioners interested in AI-driven public sector innovation, ethical digital governance, and socially inclusive technology design</p>
<p>AMCIS 2026 20 – 22 August 2026</p>	<p>Edge Computing, AI, and Digital Governance</p>	<p>OneSource / UBRAD</p>	<p>AI and edge computing for inclusive, and accountable digital governance</p>	<p>Researchers, policymakers, and practitioners interested in AI-driven public sector innovation, ethical digital governance, and</p>

				socially inclusive technology design
EGOV-CeDEM-ePart, 30 August – 3 September 2026	E-government, Edge Computing, AI	UBRAD/KUL/Cluster 2	E-government, AI and edge computing for inclusive, and accountable digital governance	Researchers, policymakers, and practitioners interested in AI-driven public sector innovation, ethical digital governance, and socially inclusive technology
EGOV-CeDEM-ePart, 30 August – 3 September 2026	E-government, Edge Computing, AI	UBRAD/KUL/Cluster 2	E-government, AI and edge computing for inclusive, and accountable digital governance	Researchers, policymakers, and practitioners interested in AI-driven public sector innovation, ethical digital governance, and socially inclusive technology
BAM 7 (virtual) & 9–11 September 2026	Edge Computing, AI, and Digital Governance	UBRAD/KUL	AI and edge computing, impact measurements through KVIs	Researchers, policymakers, and practitioners interested in AI-driven public sector innovation, ethical digital governance, and socially inclusive technology design

Table 9: Participation in symposia and industrial exhibitions

2.6.5 Industry links

The consortium partners aim to build strong relationships with industry stakeholders to support knowledge exchange, encourage the uptake of project results, and create opportunities for collaboration that enhance innovation and deliver tangible impact. The following connections will be developed over the course of the project.

Consortium partner	Industry partner	Relevance for COP-PILOT
NOVA	ERICSSON	Expertise from ACROSS and FIDAL projects
NOVA	NEC	Expertise from ACROSS project
NOVA	AIRBUS	Expertise from FIDAL project

VCH	BLOOMBERG PHILANTROPIES	Pilot activity related to sensor-enabled urban resilience and climate adaptation solutions in public spaces
UOP	NEC	Orchestration of security services (attestation, secure container migration)
UBI	K3Y	Orchestration of Analytics services for SLA monitoring and intelligent SLA violation prediction. The orchestration platform feeds these services with SLA data to enable smart predictions in near-real time
UBI	WINGS	Automation services for SLA reconfiguration establish closed-loop with an orchestration platform to preserve SLAs in near-real time
UBI	RedHat	Design TMF-compliant service specifications that allow stakeholders to manage resources and labels on RedHat's Open Cluster Management platform. This allows an orchestrator to leverage OCM as a multi-domain service orchestration environment for accommodating complex COP-PILOT services

Table 10: Industry links relevant for COP-PILOT

2.6.6 Open online Scientific & Technical workshops. Open Strategic Impact workshops

The COP-PILOT consortium places strong emphasis on participation in scientific and technical workshops, as well as in strategic impact-oriented events. Consortium partners will take part in relevant workshops to present project results, exchange knowledge with peers, and remain informed about the latest developments in the field. These activities will also support the dissemination of outcomes, facilitate networking with experts, and encourage collaborations that strengthen the project's impact and long-term sustainability.

Name of the workshop and timing	Topic	Partner	Link with COP-PILOT	Timing	Target Audience
COP-PILOT validation and evaluation workshop	Presentation of the validation and evaluation methodology, exchange of best practices	NOVA	WP5 activities	September 2026	Sister projects, BRIDGE initiative members, industry, and research community

Table 11: Technical workshops

2.6.7 Showcasing events and presentations in booths

Recognising the importance of direct engagement and visibility within relevant research and industry communities, the consortium and its partners are committed to promoting the project through presentations, events, and exhibitions, including the use of dedicated booths where appropriate.

These activities provide an effective platform to present the project’s objectives, progress, and initial results, while enabling direct interaction with potential collaborators, stakeholders, and the wider public. Supporting materials, demonstrations, and project representatives will be available to share information and respond to questions, thereby increasing awareness and strengthening connections across key communities.

During the project's initial 15 months, the consortium partners participated in the following events. Several other events are committed during 2026.

Name of the event and timing	Event organizer and Event topic	Partner	Link with COP-PILOT	Target Audience	Presentati on in booths (Y/N)
10th Workshop on “5G – Putting Intelligence to the Network Edge” Limassol, June 26 th – 29 th 2025 Website	Cyprus University of Technology 21st International Conference on Artificial Intelligence Applications and Innovations	OneSource	Understand trends, challenges, and research directions in applying AI to optimise cloud-native (multi-domain) architectures	Academia, researchers	N Paper presentation- “Cloud-Native Scheduling and Resource Orchestration: A Deep Dive into AI-Driven Approaches”
Project presentation in AIOTI Madrid, September 24 th 2025 Website post LinkedIn post Mastodon post		NetCompany	Overall project presentation		N
The 2nd Symposium on 6G	Electronics and Telecommunications Research	UBRAD	WP5: Insights on the socio-economic	Researchers, academic	N

<p>Communications</p> <p>Oct. 15-16, 2025</p> <p>Lotte Hotel, Jeju Island, Korea</p> <p>Website post LinkedIn post</p>	<p>Institute (ETRI), Information and Communication Technology Planning and Evaluation Bureau (IITP) and the Korean Communications Society.</p>		<p>impact of 6G technology.</p>	<p>s, industry professionals and innovators of 6G.</p>	
<p>Web Summit</p> <p>Lisbon, November 9th-12th 2025</p> <p>Website post</p>	<p>Digital and web technologies</p>	<p>IPN</p>	<p>Project presentation</p>	<p>Industry, researchers, academia, policy makers</p>	<p>Y – Project presentation and leaflets distribution</p>
<p>V2G Leaders</p> <p>Brussels, November 20th, 2025</p> <p>Website post LinkedIn post</p>	<p>European Commission</p> <p>Regulatory, technical, and market challenges related to Vehicle to Grid</p>	<p>D4P</p>	<p>Overall project presentation</p>	<p>Policy makers, industry professionals, academics</p>	<p>Y - Project presentation through dedicated stand and poster</p>
<p>IEEE Consumer Communications & Networking Conference 2026</p> <p>Website post LinkedIn post Mastodon post</p>	<p>IEEE</p>	<p>OneSource</p>	<p>N, Paper presentation “Resource-and-Latency-Aware PSO — A Novel Algorithm for Intelligent and Contextual Cloud-Native Resource Scheduling.” Live demonstration titled “RALA-PSO: Intelligent Scheduling of Cloud-Native Applications.”</p>	<p>Researchers, industry experts, and practitioners in communications, networking, and consumer technologies</p>	<p>N</p>
<p>PatrasIQ</p> <p>Website post</p>	<p>Annual exhibition in Greece,</p>	<p>UoP and p-NET</p>	<p>Overall project presentation</p>	<p>Academia</p>	<p>Y – Project presentation in the</p>

LinkedIn post Mastodon post Feb 28 th – March 1 st , 2026	dedicated to universities and research centres				booth and leaflet distribution
BRIDGE General Assembly Brussels, March 23 rd – 24 th 2026 Website post LinkedIn post Mastodon post	European Commission	NOVA, D4P	Energy related topics (cluster 3E)	The event brought together high-level officials from the European Commission and its agencies, BRIDGE project coordinators representing both academia and industry sectors, and investors.	No booth, Open Call leaflet distribution
Open Community for Research Brussels, April 23 rd 2026 Website post LinkedIn post	Eclipse Foundation Part of the Open Community Experience event	Ubitech, D4P	Project presentation and its open-source architecture	EC representatives, policy makers, academia, industry sectors	No, workshop
Privacy-Enhancing Technologies for Information Security in Edge-Cloud Applications Webinar, May 19 th 2026 Website post LinkedIn post Mastodon post	CEI-Sphere Horizon project, done together with O-CEI and Fraunhofer ISST	Partners IPN, NetCompany iLINK	Project presentation/real-world deployment experiences in CEI environments	Horizon projects representatives and the industry	No, webinar

<p>AMCIS 2026 Specialist Workshop</p> <p>August 20th 2026</p> <p>Venue: American Conference on Information Systems (AMCIS) 2026, Nevada, USA</p> <p>Website post LinkedIn post Mastodon post</p>	<p>AMCIS 2026 Specialist Workshop: Shaping the Future of Sustainable Digital Transformation through 6G/Edge Computing Research and Innovation</p>	<p>UBRAD/ OneSource</p>	<p>The workshop aimed to promote awareness and knowledge exchange on the role of emerging digital technologies, including 5G, 6G, Artificial Intelligence (AI)-enabled communications, and Edge Computing, in supporting societal, business, and environmental sustainability.</p>	<p>Researchers, academics, industry practitioners, doctoral students, and policy stakeholders</p>	<p>No, panel setting during workshop TBD</p>
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Table 12: Events and technical presentations in booths

2.7 COMMUNICATION & DISSEMINATION STRATEGY FOR CLUSTER 1

2.7.1 Cluster 1 Overview

Cluster 1 is deployed across Norrbotten, Kiruna, and Luleå, the industrial centres of northern Sweden, and demonstrates how next-generation digital technologies can transform one of Europe’s most essential sectors: mining. Despite notable advances in automation and monitoring, many mining operations still face key challenges, including limited data integration, reactive maintenance approaches, and costly unplanned downtime that can disrupt production and affect safety.

The vision of Cluster 1 is **to enable a fully connected, intelligent, and predictive mining ecosystem, driven by seamless interoperability and real-time analytics**. By integrating advanced computing, IoT, and data-driven decision-making, the cluster aims to establish a model for the future digital mine, one that is safer, more efficient, and environmentally sustainable.

This transformation is achieved by uniting multiple technologies and stakeholders under a shared digital framework, tackling several **objectives**:

- **Real-Time Infrastructure Monitoring:** Continuous visibility of critical logistics and asset performance through live data collection, tracking, and decision support systems.
- **Seismic Sensing and Rock Analytics:** High-resolution underground seismic data acquisition and processing to predict and mitigate risks from geological events.
- **Predictive Maintenance and Logistics Optimization:** Intelligent monitoring of production machinery and conveyor systems to prevent failures, reduce downtime, and optimize material flow.

- **Edge-to-Cloud Integration:** A unified computing continuum that connects data from sensors, IoT devices, and industrial control systems across all use cases, ensuring secure, low-latency, and scalable operations.

Each **use case** contributes to building a holistic digital ecosystem for mining:

- **UC#1.1 – IoT Mining Seismics:** Deploys multi-sensor seismic systems for real-time underground data processing and risk prevention, addressing multi-billion-euro vulnerabilities linked to mine closures.
- **UC#1.2 – Logistics IoT:** Provides large-scale geotechnical data integration and live asset tracking to strengthen operational reliability.
- **UC#1.3 – Condition Monitoring and Predictive Maintenance in Mining:** Introduces condition-based monitoring and AI-driven fault detection to streamline production and logistics continuity.
- **UC#1.4 – IoT-Edge-Cloud Continuum for Digital Mines:** Acts as the backbone of the cluster, enabling interoperability, unified analytics, and enhanced data sovereignty within mining environments.

In doing so, **Cluster 1 positions COP-PILOT as a pioneer in industrial digitalization**, showing how edge computing, AI, and advanced analytics can deliver measurable improvements in safety, efficiency, and sustainability.

The **Communication and Dissemination strategy for Cluster 1** aims to establish it as a reference point for the application of advanced digital technologies in underground mining. It focuses on increasing awareness among mining operators, equipment manufacturers, and policymakers of how real-time monitoring, predictive maintenance, and integrated edge-to-cloud analytics can improve safety, reduce downtime, and enhance operational efficiency. The strategy also seeks to engage industry stakeholders and technology providers by demonstrating the value of interoperable platforms and data-driven decision-making in strengthening resilience within mining operations. Through technical documentation, case studies, and knowledge exchange, Cluster 1 will contribute to a practical and replicable approach for the adoption of smart mining solutions.

2.7.2 Cluster 1 - Audience Mapping and Key Messages

Based on a detailed stakeholder mapping and analysis, Cluster 1 has identified the following target groups, together with the key messages developed to engage each audience segment.

#	Target Group	Cluster Specific TG ¹	Cluster 1 TG Key players	Key messages
TG A	Cloud, edge, and IoT service providers and users	(Regional) cloud service providers, providers of tools and services for private cloud solutions, service providers	ABB, Siemens, Atea, CGI, SAP, IBM, IFS, Cloud: Amazon, Microsoft, Google – Edge: Qamcom, Ericsson, Telia, Vertiv, Enoc Systems	COP-PILOT demonstrates scalable, interoperable solutions across an edge-to-cloud continuum in mining environments

TG B	Critical infrastructures operators and owners		Mines: LKAB, Boliden, Kaunis Iron, Viscaria	For mining management: Avoid vendor lock-in, COP-PILOT unified service, compute, and deployment orchestration enables maximized value extraction from data, supported by suppliers with key expertise on data collection and analytics.
TG C	Public sector	European Authorities Swedish public authorities	EU level: DG CONNECT, DG RTD, DG GROW, DG ENV Sweden: Ministry of Climate and Enterprise (Klimat- och näringslivsdepartementet, Sweden), Swedish mining municipalities: Kiruna, Gällivare, Pajala, Skellefteå, Lycksele	The outcomes of the Cluster 1 work under COP-PILOT will enable Improved safety in mines, and drive sustainability aspects.
TG D	Knowledge providers		Swedish Metals & Minerals	
TG E	Entrepreneurial ecosystems and technology providers		Luleå Näringsliv, ProcessIT, EIT Raw Materials, Swedish Mining Innovation Hub (SMIH), Svemin, Norrbottens handelskammare (chamber of commerce)	For suppliers to mining companies: COP-PILOT unified service, compute, and deployment orchestration can ease the integration into environments and infrastructures owned and operated by mining companies.
TG F	Civil sector		Citizens in Norrbotten, IF Metall (worker union)	The improvements tested/brought by COP-PILOT Cluster 1 ensure safer mines and a greener future.
TG G	Regulatory Bodies		1.Länsstyrelsen Norrbotten, Länsstyrelsen Västerbotten	1-3. COP-PILOT Cluster 1

			(county boards in northern Sweden) 2. Bergsstaten (Swedish Mining Inspectorate) 3. Arbetsmiljöverket (Swedish Work) 4. ETSI	demonstrates how suppliers can more easily deliver safety-related analytics services to mines that operate closed IoT-edge-cloud computing continuum infrastructures 4. COP-PILOT demonstrates practical IoT and edge implementations supporting interoperability and industrial standardisation.
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Table 13: Cluster 1 - Audience mapping and key messages

2.7.3 Cluster 1 - Implementation Phases

The implementation of Cluster 1 is organised into four distinct phases, each representing a key technical and operational milestone. The table below provides a detailed overview of these phases, outlining the main activities and key deliverables associated with each stage.

Timeframe	Phase	Description of activities
M6-M11	Phase 1 – Preparatory phase	<p>Use case #1.1 Initial development, integration and demonstration planning for ColonyOS deployment orchestration v1.0 integrated with RockSigma compute infrastructure, including the connection with Open Slice for intent-based orchestration.</p> <p>Use case #1.2 No main UC1.2 activity is primarily assigned to this phase in the updated tracker. Preparatory activities for UC1.2 start in this period but continue mainly into later phases and are therefore listed under the phase where they are active for the largest number of months.</p> <p>Use case #1.3 Making use of the cloud hosting environment set up by UC1.4 Develop and implement a simulation environment to produce realistic data streams for a limited number of IoT condition monitoring devices. Implement the APIs to replicate the real IoT devices' data transfer mechanisms into the cloud hosting environment.</p>

		<p>Demonstration of the Hosch/Predge Discover Splaice solution using the pre-production environment.</p> <p>Use case #1.4 Develop solution for deployment orchestration with ColonyOS and GitOps, i.e., ColonyOS deployment orchestration v1.0</p> <ul style="list-style-type: none"> • Supporting the creation of a catalogue of resources inside closed infrastructures via an API, i.e., to make Open Slice aware of the resources • Enabling the Arrowhead core systems and example prosumers to be deployed in a closed infrastructure with ColonyOS and GitOps • Enabling the integration with Open Slice via GitOps for intent-based orchestration of an Arrowhead deployment with ColonyOS and GitOps <p>Demonstrate ColonyOS deployment orchestration v1.0 (at review meeting)</p> <ul style="list-style-type: none"> • Aligned with cluster 1 stakeholders' interests (to be specified) • Including a connection with Open Slice for intent-based orchestration <p>Initial design phase of high-performance edge compute nodes for a mining environment. Setting up cloud hosting environment for UC1.1 – 1.3</p>
<p>M12-M18</p>	<p>Phase 2 – Initial implementation and integration</p>	<p>Use case #1.1 Refined implementation of ColonyOS deployment orchestration v1.1 and integration of ESG sensors. The work focuses on strengthening RockSigma's compute and sensor integration capabilities and preparing the seismic processing workflow for later multi-vendor and edge-to-cloud demonstrations.</p> <p>Use case #1.2 Initial UC1.2 implementation and cluster integration. Activities include design and development of Eclipse Arrowhead support systems, development of underground asset-tracking technologies, planning of integration with the RISE testbed, setup of Cloud/Edge processing environments for testing and validation, integration of IoT devices into the Cluster 1 testbed, platform improvements based on industry feedback, development of seismic sensing functionality, and improvements to IoT platform scalability and testbed integration.</p> <p>Use case #1.3</p>

		<p>Initial Predge-HOSCH implementation and pre-production validation. Activities include demonstration of the Hosch/Predge Discover Splaice MVP, review of the Predge Conveyor platform setup and COP-PILOT platform usage strategy, and establishment of a hardware testbed deployment for testing alternative hardware setups against defined requirements.</p> <p>Use case #1.4 Initial deployment and refinement of the common Cluster 1 orchestration and testbed environment. Activities include demonstration of ColonyOS deployment orchestration v1.0 with Open Slice, cloud hosting setup for UC1.1–UC1.3, development and refinement of ColonyOS deployment orchestration v1.1, development of self-adaptive scaling with ColonyOS, expansion of the Open Slice-driven deployment orchestration scenario, integration of real IoT devices into the testbed, and design/development of high-performance edge compute nodes for the mining environment.</p>
<p>M19-M25</p>	<p>Phase 3 – Extended implementation, deployment and testing</p>	<p>Use case #1.1 Extended UC1.1 implementation focusing on multi-vendor sensing and edge-to-cloud workflows. Activities include integration of Nmx and K-UTEC sensors, testing of multiple simultaneous sensor vendors, and development of edge-to-cloud compute workflows using ColonyOS federations.</p> <p>Use case #1.2 Extended ThingWave integration and demonstrator preparation. Activities include integration with RockSigma using Eclipse Arrowhead and ColonyOS, deployment of the ThingWave Cloud/Edge platform on the testbed, demonstrator design and planning, improved Cluster 1 integration, testing and validation, and development of a fully integrated end-to-end seismic solution with RockSigma.</p> <p>Use case #1.3 Extended Predge-HOSCH development, deployment and test-case execution. Activities include the COP-PILOT enabled Predge Conveyor test case in the pre-production environment, first-round decision-support solution development, development and deployment of the COP-PILOT enabled Predge Conveyor in the pre-production environment, data source flexibility test cases for the Predge Conveyor Beta, deployment of hardware/data transmission/orchestration concepts in the use case scenario, and testing and validation of use case results and hardware performance.</p>

		<p>Use case #1.4 Extension of the Cluster 1 orchestration and edge compute environment. Activities include integration of an Open Call project related to edge server concepts for mining, development of ColonyOS federations for autonomous operation across independent infrastructures, and construction/deployment of high-performance edge compute nodes for the mining environment.</p>
<p>M26 – M36</p>	<p>Phase 4 – Final integration, validation and demonstration</p>	<p>Use case #1.1 Final UC1.1 integration and demonstration. Activities include development of generic multi-vendor service orchestration and the full UC1.1 system demonstration, including deployment, testing and validation of the integrated seismic solution.</p> <p>Use case #1.2 Continuation and completion of UC1.2 platform integration and demonstrator work. Activities include continued integration of the ThingWave IoT platform with Eclipse Arrowhead, software integration into ColonyOS and the COP-PILOT platform, improvements to support mass deployment of IoT-enabled rock bolts, refinement of asset tracking, mass deployment and IoT platform performance, development of the UC1.2 dissemination demonstrator, scalability and self-adaptive scaling improvements, and demonstration of streaming processing and autonomous alarm generation.</p> <p>Use case #1.3 Final Predge-HOSCH adaptation, testing and validation. Activities include adaptation of the COP-PILOT enabled Predge Conveyor for TRL 6, second-round decision-support solution development, test case realisation and demonstration preparation, final testing/validation/demonstration of Predge Conveyor in the pre-production environment, optimisation of hardware setup, data flow protocols and orchestration approach, deployment of optimised hardware and cloud components, testing of user interface, alarm and notification functions, and validation of software performance and operator impact.</p> <p>Use case #1.4 Final UC1.4 demonstration and cross-cluster enabling work. Activities include development of an example analytics service, for example using pictures or video to demonstrate new business opportunities, and the final IoT-Edge-Cloud</p>

		demonstration with deployment and validation of the integrated Cluster 1 continuum. Demonstrate streaming processing and autonomous alarm generation Continued investigation of suitable business models and go to market strategies
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Table 14: Cluster 1 - Implementation Phases

2.7.4 Cluster 1 - Communication and Dissemination Plan

2.7.4.1 Communication tactics

The Communication Strategy for Cluster 1 is based on a dual-pillar approach. It involves the systematic use of all official COP-PILOT communication channels, such as the project website, social media platforms, newsletters, and publications, to share progress updates and highlight key achievements. At the same time, the existing communication channels of Cluster 1 partners will be used to extend outreach, increase visibility, and ensure consistent messaging across different stakeholder groups. This integrated approach ensures the effective dissemination of key milestones, validated results, and the cluster’s wider potential for replication, as detailed in Table 22.

2.7.4.2 Dissemination tactics

Dissemination activities have been strategically aligned with the project’s main milestones and stakeholder objectives. The relevant opportunities are detailed in the following sections and tables.

Timing	Presentation	Description	Occasion	Partners involved
M33 – M39 (late 2027 - early 2028)	Title TBC Online video presentation covering the contents of the broad technical whitepaper mentioned under section E below	An online video presentation covering the contents of the broad technical whitepaper related to the work done by Cluster 1, explaining what has been created in the project and the opportunity that it provides for mines	Online	Cluster 1

Table 15: Cluster 1 - Publicly available presentations

Timing	Presentation	Description	Occasion/Event	Partners involved
M4	HOSCH Predge splaice solution	Presenting the potential developments on the frame of COP-PILOT in addition to the existing commercial solution “splaice”	Bauma 2025	HOSCH Predge

Table 16: Cluster 1 – Presentations in booths

Timing	Title of the paper	Description	Journal	Partners involved
M5 (May 2025) Website	Kristiansson, Johan, Jerker Delsing, and Thomas Ohlson Timoudas. "Carbon-Aware Scheduling for Cyber-Physical Systems in the Edge-Cloud Continuum."	This paper investigates the development of a carbon-aware scheduler for the Edge-Cloud Continuum, designed to optimize workload placement by balancing energy consumption, temporal variations in carbon intensity and resource availability.	2025 IEEE 8th International Conference on Industrial Cyber-Physical Systems (ICPS). IEEE, 2025.	LTU, RISE
M9 (Sept. 2025) Website	J. Kristiansson, U. Bodin, C. Borngund, et al, "ColonyOS: A Meta-OS for Computing Continuums"	Presentation of ColonyOS, an open-source meta-OS that coordinates distributed workloads across diverse computing environments. The paper also presents practical experiences from two industrial deployments: real-time seismic monitoring at RockSigma AB and integration with EuroHPC supercomputers.	Proc. 2025 IEEE Int. Conf. Cloud Engineering (IC2E), 2025	LTU, Rocksigma
M21 (Sept. 8-10, 2026)	T.B.D.	Paper presentation: Intent-based deployment orchestration ColonyOS	31 st IEEE ETFA 2026	LTU, RISE

Table 17: Cluster 1 – Scientific papers in high-impact topic conferences/workshops

Timing	Title of the paper	Description	Partners involved
M33 – M36 (late 2027 - early 2028)	Title TBD A broad technical whitepaper covering the work done by Cluster 1	Target to present a whitepaper in one of the several relevant digitalization working groups of the Global Mining Guidelines	Cluster 1

Group
<https://gmgroup.org/>

Table 18: Cluster 1 – Technical presentations and white papers

Timing	Title of the paper	Description	Partners involved
M4 (April 2025)	BAUMA, 2025, Munich, Germany Presentation of HOSCH Predge splaice solution	Presentation on the potential developments on the frame of COP-PILOT in addition to the existing commercial solution “splaice”	Hosch, Predge
M5 (May 2025)	E-ACG 2025, Sydney, Australia	Participation in the main event	ThingWave
M5 (May 2025)	Haus der Technik - 21st Conference Belt Conveyors and their Elements	Presentation at event	HOSCH and Predge
M5 (May 2025)	Swedish Mining Delegation Workshop, Reno, Nevada	Participation in the workshop	ThingWave
M8 (Aug 2025)	RaSiM 11, Luleå, Sweden	Participation in the main event	ThingWave
M10 (Oct 2025)	IMARC 2025, Sydney, Australia	Participation and presentation at the main conference.	ThingWave
M14 (Feb 2026)	Participation at ITS Automationsdagarna	Talk on “Predictive Maintenance and the industrialization perspective.”	Predge
M15 (March 2026)	Participation at NorthStar Community Meeting	Prototype presentation	ThingWave
M15 (March 2026)	PDAC 2026, Toronto Prospectors and Developers Association of Canada	Participation in the main event and presentations at the sub-event hosted by Business Sweden	RockSigma
M18	Euro Mine Expo 2026, Skellefteå, Sweden	Participation in main event	ThingWave, RockSigma, Hosch, Predge

(May 2026)			
M20 (Aug 2026)	ACG Caving 2026, Ulan Bataar, Mongolia	Participation, presentation, and sponsorship of the main conference. Aim to publish at least one paper.	RockSigma
M23 (Nov 2027)	ACG Deep Mining, Perth, Australia	Participation, presentation, and sponsorship of the main conference. Aim to publish at least one paper.	RockSigma

Table 19: Cluster 1 – Participation in symposia and industrial exhibitions

Consortium partner	Industry partner	Relevance for COP-PILOT
PAB, HOSCH	RWE	Use-case
ROC	K-UTECH	Use-case, IoT/Sensor partner

Table 20: Cluster 1 - Industry links relevant for COP-PILOT

2.7.4.3 Cluster 1 - Communication and Dissemination Matrix

The table below presents the consolidated Communication and Dissemination Matrix for Cluster 1. It outlines the main activities and tactics aligned with the respective project phases and identified target audiences. Further activities may be added as new opportunities emerge.

Project phase and activities	Timing	Target Aud.	Dissemination Activities	Communication Activities
M6-M11 - Phase 1	M6-M12	A-G	-	Cluster presentation via the project website , social media (1,2,3), and YouTube . Progress info shared via a blog post and the project newsletter .
	M4	A-E, G	Participation at the Bauma symposium, presentation in the booth.	Activity reflected on the COP-PILOT website and newsletter
	M5	A-E, G	E-ACG 2025	Activity reflected on COP-PILOT website
	M5	A-E, G	Paper at the 8 th IEEE conference	Activity reflected on the COP-PILOT website . Link to paper.

	M5	A-E, G	Participation at Haus der Technik – 21 st Conference of Belt Conveyors	Activity reflected on the COP-PILOT website .
	M5	G	Swedish Mining Delegation Workshop	Activity reflected on the COP-PILOT website .
	M8	G	RaSiM 11, Luleå, Sweden	Activity reflected on the COP-PILOT website .
	M9	A-E, G	Paper at Proc. 2025 IEEE Int. Conf. Cloud Engineering	Activity reflected on the COP-PILOT website . Link to paper .
	M10	A-E, G	Participation and presentation at IMARC 2025	Activity reflected on the project website and social media
	M10	E	Meeting with a mining company to discuss collaboration around project results	Confidential meeting that cannot be publicly disclosed
M12 – 18 - Phase 2	M14	A-E, G	Participation at ITS Automationsdagarna	Activity reflected on the project website .
	M15	A-E, G	PDAC 2026, Toronto	Activity reflected on the project website and the partners' LinkedIn .
	M15	A-E, G	NorthStar Community Meeting – Prototype presentation	Activity was reflected on the project website , LinkedIn , and Mastodon .
	M18	A-F	Euro Mine Expo – participation and stakeholder discussions	Activity was reflected on the project's website page and LinkedIn .
M19 – M25 - Phase 3	M20	A-E, G	Participation at ACG Caving 2026	Reflect this activity on the project and partners' SM channels and websites
	M21	A-E, G	Paper presentation at 31 st IEEE ETFA 2026: Intent-based deployment	Paper to be promoted on the website, project, and partners'

			orchestration ColonyOS	SM channels and websites.
	M23	A-E, G	Participation in ACG Deep Mining	Reflect this activity on the project and partners' SM channels and websites
M26 – M36 – Phase 4	M30-34	B	Online strategic impact webinar for the Mining/industry sector	Reflect this activity on the project and partners' SM channels and websites
	M33-39	A-E, G	A broad technical whitepaper covering the work done by Cluster 1 – to be presented in one of the working groups of the Global Mining Guidelines Group https://gmgroup.org/	Reflect this activity on the project and partners' SM channels and websites
	M36	A-G		Overall results of the Cluster 1 to be promoted via blog posts on the project website, newsletter, SM, and (TBD) an impact video

Table 21: Cluster 1 - Communication and Dissemination Matrix

2.8 COMMUNICATION & DISSEMINATION STRATEGY FOR CLUSTER 2

2.8.1 Cluster 2 Overview

Serving as the piloting cluster for Valencia, the European Green Capital 2024, the PC-ES cluster focuses on the development and demonstration of smart, sustainable IoT solutions in a diverse real-world environment. The Cluster leverages four key settings: the city of Valencia, the Port of Valencia, the nearby Almussafes industrial park, and the Universitat Politècnica de València (UPV) campus. These environments, including one of Europe’s largest ports and a campus aiming to become carbon neutral by 2030, provide a rich and realistic testbed for a broad range of smart IoT applications. The cluster approach involves deploying IoT devices to collect real-time data, which is then integrated into smart IoT platforms such as the FIWARE-based “Thinking City” to enable AI/ML-driven analysis across a distributed IoT–edge–cloud continuum.

This cluster addresses key challenges associated with the large-scale deployment of smart IoT solutions. These include the physical and technical complexity of installations in dense urban and

industrial environments, ensuring secure and privacy-compliant data management, and enabling seamless interoperability between different platforms. Additional challenges relate to scalability, potential connectivity disruptions, and the financial and logistical constraints of deployment and maintenance. Ultimately, the cluster also aims to strengthen public trust and ensure alignment with regulatory frameworks to support long-term sustainability and adoption.

The overarching ambition of Cluster 2 is **to identify and address the core pain points of cities through the inclusion of IoT and intelligent management**. To achieve this, the partners, roles, and use cases have been carefully selected to represent a diverse set of dynamic, real-life scenarios.

The cluster's **main objectives** are fully aligned with the broader goals of the COP-PILOT project:

- **To evaluate smarter and more sustainable data and mobility solutions** across a diverse set of use cases.
- **To integrate and validate smart IoT platforms and devices** through large-scale trials in real-world environments across Valencia.
- **To increase sustainability and quality of life** by demonstrating the real-world adoption of the proposed solutions.

The business impact of this cluster is significant. By deploying innovative 5G and IoT technologies across urban, industrial, and port environments, the data-driven solutions are expected to deliver measurable gains in operational efficiency, cost reduction, and safety. The use cases will offer a reference framework for stakeholders to validate market-ready technologies and identify new commercial opportunities, while also supporting sustainability objectives and strengthening public-private collaboration.

These objectives are put into practice through three distinct **use cases**:

- UC#2.1 focuses on integrated urban and industrial monitoring. In collaboration with local authorities and the public bus transport company, this use case deploys sensors, radars, and cameras in Valencia's key urban areas and the Almussafes industrial park. The goal is to facilitate AI-driven decision-making to improve sustainable mobility and environmental management, with some data made available to third-party developers.
- UC#2.2 is centred on the UPV campus, where IoT devices monitor energy consumption, water usage, and environmental conditions in real time. The data is analyzed to identify optimization opportunities, supporting the campus's goal of achieving net-zero carbon neutrality while testing a range of sustainability-focused tools.
- UC#2.3 transforms the Port of Valencia into a testbed for intelligent maritime and terrestrial traffic management. A smart IoT platform will be used for precise maritime tracking, real-time risk assessment during berthing, and enhanced monitoring of truck movements, all to improve safety, operational efficiency, and sustainability.

Ultimately, **Cluster 2 plays a crucial role in advancing smart, sustainable urban and port environments** by enabling smarter urban mobility, improving traffic flow and safety, supporting flood mitigation and faster emergency response, optimizing waste management, and enhancing port operations.

The **Communication and Dissemination strategy for Cluster 2** aims to increase awareness of smart IoT platforms and AI-driven solutions as key enablers of sustainable urban and port

environments. It emphasises their tangible impact on operational efficiency, cost reduction, and safety, while positioning the cluster as a reference case for innovation in smart city development. The strategy also promotes collaboration among city authorities, port operators, researchers, and technology providers. It will disseminate validated results from the use cases to demonstrate the real-world benefits of these solutions for more sustainable and efficient urban and industrial management.

2.8.2 Cluster 2 - Audience Mapping and Key Messages

Following a detailed analysis, the key audiences for Cluster 2 have been identified and mapped. These groups span multiple sectors and include both technical and non-technical stakeholders with an interest in urban mobility, technology, and sustainability. For each audience category, tailored messages and specific communication objectives have been developed to ensure clear, relevant, and effective engagement.

#	Target Group	Cluster Specific TG	Cluster players	Key messages
TG A	Cloud, edge, and IoT service providers and users	Companies and research groups developing or integrating IoT, cloud and edge computing technologies that can benefit from interoperability and validation opportunities within real-world environments	<ul style="list-style-type: none"> • 5CMM, NES and collaborators • Telefonica IoT and collaborators 	<p><i>The outcomes of the Cluster 2 will allow to:</i></p> <p><i>1st order benefits:</i></p> <ul style="list-style-type: none"> • Validate IoT/edge/cloud integration in real environments. • Demonstrate interoperability across heterogeneous systems. • Enable faster deployment and testing of market-ready IoT solutions. <p><i>2nd order benefits:</i></p> <ul style="list-style-type: none"> • Accelerate technology adoption in smart city and port ecosystems. • Strengthen innovation capacity through cross-sector collaboration
TG B	Critical infrastructures operators and owners	Operators and owners of key urban, industrial and port infrastructures where IoT solutions can enhance safety,	<ul style="list-style-type: none"> • Port Authority of Valencia • APM Terminal • CSP Spain • MSC Valencia Terminal 	<p><i>The outcomes of the Cluster 2 will allow to:</i></p> <p><i>1st order benefits:</i></p> <ul style="list-style-type: none"> • Enhance operational efficiency through real-time monitoring.

		efficiency and sustainability.	<ul style="list-style-type: none"> • Valencia Terminal Europa • Tramed • Balearia 	<ul style="list-style-type: none"> • Enable predictive maintenance and risk management. • Improve safety and logistics coordination. • Optimize resource and energy consumption. <p><i>2nd order benefits:</i></p> <ul style="list-style-type: none"> • Reduce operational costs and downtime <p>Improve resilience against disruptions.</p>
TG C	Public sector	Municipal and regional authorities, public agencies and local government departments responsible for sustainability, mobility and digital transformation.	<ul style="list-style-type: none"> • City Hall of Valencia • City Hall of Almussafes • Almussafes local police • Urban mobility department in the city halls of Valencia and Almussafes • Global Omnium water company • Waste management company of the city of Valencia • Autoridad Portuaria de Valencia • EMT València (Municipal Transport Company) 	<p>Messages for the local municipality – COP-PILOT Cluster 2 activities:</p> <p><i>1st order benefits:</i></p> <ul style="list-style-type: none"> • Support sustainability goals • Enable data-driven policymaking • Enhances public services • Improve the efficiency of waste collection routes • Enhance waste data accuracy <p><i>2nd order benefits:</i></p> <ul style="list-style-type: none"> • Reduce CO₂ emissions • Automated ship tracking • Improved security berthing process • Enable data-driven facility management • Enhance sustainability • Support long-term strategic planning of public assets

				<ul style="list-style-type: none"> • Provide real-time monitoring of occupancy and environmental conditions • Increase operational efficiency and reduce costs • Improve responsiveness to changing occupancy patterns <p>Demonstrate smart city innovation in public facilities</p>
TG D	Knowledge providers	Universities, R&D centers, and innovation hubs working on IoT, AI, and sustainability that can contribute to or benefit from the project's open data and demonstrations.	<ul style="list-style-type: none"> • Institute of Biomechanics of Valencia (IBV) • ITENE (Packaging, Transport and Logistics Research Center) 	<p><i>1st order benefits:</i></p> <ul style="list-style-type: none"> • Access real-world IoT datasets and test environments. • Validate AI and data analytics models in real conditions. • Encourage collaboration with public and industrial partners. <p><i>2nd order benefits:</i></p> <ul style="list-style-type: none"> • Contribute to standardisation and policy recommendations. • Strengthen cooperation between academia, industry and government. <p>Promote knowledge transfer and education on smart city technologies.</p>
TG E	Entrepreneurial ecosystems and technology providers	Startups, SMEs and technology companies developing digital, IoT and AI-based products for smart city or	<ul style="list-style-type: none"> • Las Naves innovation institution for the city of Valencia • Lanzadera • MOVEA Consulting 	<p><i>1st order benefits:</i></p> <ul style="list-style-type: none"> • Test and validate innovative solutions in real-world pilots. • Access collaboration opportunities with

		<p>industrial applications. System integrators and smart city technology providers. Public-private innovation hubs</p>		<p>public and industrial partners.</p> <ul style="list-style-type: none"> • Demonstrate scalability and market readiness of products. <p><i>2nd order benefits:</i></p> <ul style="list-style-type: none"> • Increase competitiveness and visibility within the EU innovation ecosystem. • Create new business models and sustainability-driven value chains.
TG F	Civil sector	<ul style="list-style-type: none"> • End users and beneficiaries of smart IoT solutions, as well as civic actors contributing to social innovation, environmental awareness and citizen engagement in data-driven urban management. Local communities and citizen associations involved in urban and environmental initiatives. Environmental NGOs and sustainability networks. • Consumer and mobility 	<ul style="list-style-type: none"> • Local events in UPV, the city of Valencia and the port <p>AVIA (Automotive and Mobility Cluster of Valencia)</p>	<p><i>COP-PILOT Cluster 2 activities:</i></p> <p><i>1st order benefits</i></p> <ul style="list-style-type: none"> • <i>Improve city logistics</i> <p><i>2nd order benefits</i></p> <ul style="list-style-type: none"> • Improve citizens' quality of life • Enhance traffic management and reduce congestion • Increase road safety • Support infrastructure planning • Real-time monitoring for emergencies • Improve the efficiency of waste collection routes • Enhance waste data accuracy <p>Reduce CO₂ emissions</p>

		<p>advocacy groups.</p> <ul style="list-style-type: none"> • Civic organizations. <p>Media and civil society platforms raising awareness of digital and environmental innovations.</p>		
TG G	Regulatory Bodies	<p>European, national and regional authorities responsible for digital, environmental and transport regulation, as well as standardisation entities.</p>	<ul style="list-style-type: none"> • Smart city certification entities • Asepeyo, Mutual Insurance Partner of the Spanish Social Security System • Valencia Local Police 	<p><i>1st order benefits:</i></p> <ul style="list-style-type: none"> • Demonstrate compliance with GDPR and cybersecurity standards. • Provide insights for interoperability and data-sharing frameworks. • Support evidence-based policymaking for smart city ecosystems. <p><i>2nd order benefits:</i></p> <ul style="list-style-type: none"> • Contribute to future EU digital and environmental policies.

Table 22: Cluster 2 - Audience mapping and key messages

2.8.3 Cluster 2 - Implementation Phases

The deployment of Cluster 2 is structured into four distinct phases, each marking a key milestone in its technical and operational development. The table below presents a detailed overview of these phases, outlining the main activities and expected outcomes associated with each stage.

Timeframe	Phase	Description of activities
M6 – M10 (upon each Use Case scenario)	Phase 1 – Planning	<p>Upon use case, the following activities are to take place during this phase:</p> <ul style="list-style-type: none"> - Study of sensor models (compatibility/physical installation), number of devices to be deployed OR

		- Installation location survey, device manufacturing, and coordination with the installation company
SM9 – M17 (upon each Use Case scenario)	Phase 2 – Device configuration/installation, integration	<p>Upon use case, the following activities are to take place during this phase:</p> <ul style="list-style-type: none"> - Deployment of the first batch of 5GRadars. Initial measurements capture. Troubleshooting of issues that might arise. Integration with cluster platform - Installation of devices. Initial measurement collection. Integration with cluster platform - Manufacturing of devices and physical supports - Device configuration, Lab testing, and integration
M9 – M26 (upon each Use Case scenario)	Phase 3 – Device installations, start of measurement, adjustments	<p>Upon use case, the following activities are to take place during this phase:</p> <ul style="list-style-type: none"> - Installation of additional devices following lessons learned from the previous phase. Continue monitoring the solution for constant improvement of service (uptime, detection, and measurement accuracy) - Solution monitoring, integration validation - Sensor installation and start of measurement collection - Installation of additional devices. Solution optimization to improve accuracy, uptime, reliability, and latency - Integration of existing data from the Building Management System
M12– M34 (upon each Use Case scenario)	Phase 4 – Final results analysis	Validation. Assess KPIs achieved

Table 23: Cluster 2 - Implementation Phases

2.8.4 Cluster 2 - Communication and Dissemination Plan

2.8.4.1 Communication tactics

Throughout the project, the activities and milestones of Cluster 2 were and will continue to be actively promoted through all official COP-PILOT communication channels, including the project website, social media, newsletters, and blog posts. In parallel, the communication channels of Cluster 2 partners are leveraged to expand outreach, increase visibility, and ensure consistent messaging across different stakeholder groups. These coordinated efforts will support the effective dissemination of Cluster 2’s progress, impact, and replication potential, as outlined in the Cluster 2 Communication and Dissemination Matrix (Table 30).

2.8.4.2 Dissemination tactics

Multiple dissemination opportunities were identified throughout the project timeline, aligned with key milestones and stakeholder engagement objectives. These are presented in the following sections, with additional details provided in the accompanying tables.

Timing	Presentation	Description	Occasion	Partners involved
M9	Technical workshop on urban mobility	COP-PILOT presentation at the seminar	European Mobility Week	VCH
M9, M33	Cluster 2 overview presentation	Cluster 2 overview presentation	AIOTI Days 2025	UPV
M18	Presentation of the current status and demonstration videos	Short public demo of the solution and project progress	Datos y Movilidad: Una visión compartida para la ciudad del mañana	VCH

Table 24: Cluster 2 - Publicly available presentations

Timing	Presentation	Description	Occasion/Event	Partners involved
M9, M21, M33	COP-PILOT presentation at the stand	COP-PILOT presentation at the stand	Innovation Day Telefónica Digital	NES, TID
M15	COP-PILOT presentation at the stand and 1st open Call promotion	Presentation of the COP-PILOT project at the stand, together with dissemination activities to promote the 1st Open Call and attract potential applicants	Forinvest 2026	VCH
M17, M29	COP-PILOT presentation at the stand	COP-PILOT presentation at the stand	5G Forum	Nokia/TID
M18 (June 2026), M30	COP-PILOT presentation at the stand	COP-PILOT presentation at the stand	EuCNC	TID
M21, M33	COP-PILOT presentation at the stand	COP-PILOT presentation at the stand	PIMRC	TID

Table 25: Cluster 2 - Presentations in booths

Timing	Presentation	Description	Occasion/Event	Partners involved
M9	COP-PILOT leaflet distribution	Leaflets distribution at stand	Innovation Day Telefónica Digital	NES, TID
M17	COP-PILOT leaflet distribution	Leaflets distribution at stand	5G Forum	TID
M18 (June 2026)	COP-PILOT leaflet distribution	Leaflets distribution at stand	EuCNC	TID
M21, M33	COP-PILOT leaflet distribution	COP-PILOT presentation at the stand	PIMRC	TID

Table 26: Cluster 2 – Leaflets and flyers distribution

Timing	Title of the paper	Description	Journal	Partners involved
M11	Cluster 2 architecture	Cluster 2 architecture	Applied Sciences	UPV, TID, NES, 5CMM, FV
M19	Waste management UC network analysis/design	Waste management UC network analysis/design	IEEE Internet of Things Magazine	UPV

Table 27: Cluster 2 – Scientific papers in highly impact journals

Timing	Event	Description	Partners involved
M3	Networks Main Ports – PRIMMA	Presentation during a webinar	VPF
M9	European Mobility Week - Cities in Motion: Data, Security and Future Trends	Use Case presentation	VCH
M10, M22, M34	PortComms25/26/27	COP-PILOT presentation during the meeting	VPF

Table 28: Cluster 2 – Participation in symposia and industrial exhibitions

Project	Activity	Description	Partners involved
CEI-Sphere	CEI Market talks 2026 and 2027	Participation alongside O-CEI consortium	UPV
O-CEI Pilot 2 – SVD	https://o-cei.eu/use-cases/	TBD - Collaboration opportunities to be identified	TBD
VDROP-PORT	https://cordis.europa.eu/project/id/101207446	TBD - Collaboration opportunities to be identified	TBD
BlueBARGE	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/projects-details/43108390/101138694	TBD - Collaboration opportunities to be identified	TBD
DynaPORT	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/projects-details/43108390/101138478	TBD - Collaboration opportunities to be identified	TBD
MISSION	https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/projects-details/43108390/101138583	TBD - Collaboration opportunities to be identified	TBD

Table 29: Cluster 2 – Liaison with other projects

2.8.4.3 Cluster 2 - Communication and Dissemination Matrix

The table below presents the consolidated Communication and Dissemination Matrix for Cluster 2. It links key activities and tactics to the relevant project phases and identified target audiences. Additional activities may be introduced as new opportunities emerge.

Project phase and activities	Timing	Target Aud.	Dissemination Activities	Communication Activities
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Phase 1 – Planning M6 – M10 (upon each Use Case scenario)	M6 – M10	A - G	-	Cluster 2 – Cluster and partners presentations via the project website , social media posts (1,2,3,4), and YT videos Report on progress achieved during this period, via the project website and newsletter
	M3	A – E, G	Presentation at Networks Main Ports – PRIMMA	The activity was reflected on the project website and newsletter
	M9	A – E, G	Use Case presentation during the European Mobility Week	The activity was reflected on the project website , SM channels , and newsletter
	M9	A – E, G	Cluster 2 overview presentation at AIOTI Days	The activity was reflected on the project website (here and here), as well as in the newsletter
	M9	A – E, G	Participation in Innovation Day Telefónica Digital	The activity was reflected on the project website , project SM channels , partner SM channel , and newsletter
	M10	A – E, G	Participation at PortComms25	The activity was reflected on the project website , SM channels , and newsletter
Phase 2 – Device configuration/installation, integration M9 – M17 (upon each Use Case scenario)	M9 – M17	A - G	-	Constant updates on the progress of the activities behind each use case
	M11	A – E, G	Cluster 2 architecture paper	Paper was promoted via the project website
	M17	A – E, G	5G Forum – presentation at the stand and leaflets	Activity to be reflected via the project SM channels, as well as via the website and newsletter.

	M17	A – E, G	Participation at Urban Mobility Data Hub (UMDH) – “Datos y movilidad: una visión compartida para la ciudad del mañana” (“Data and Mobility: A Shared Vision for the City of Tomorrow”)	The activity was reflected on the project website and LinkedIn , as well as VCH LinkedIn .
Phase 3 – Device installations, start of measurement, adjustments M9 – M26 (upon each Use Case scenario)	M9 – M26	A-G	-	Constant updates on the progress of the activities behind each use case
	M18	A – E, G	EuCNC – presentation at the stand and leaflets	Activity to be reflected via the project LinkedIn and website , and partners' posts .
	M21	A – E, G	COP-PILOT presentation at PIMRC	Activity to be reflected via the project SM channels, as well as via the website and newsletter.
	M21	A – E, G	Participation in Innovation Day Telefónica Digital	Activity to be reflected via the project SM channels, as well as via the website and newsletter.
	M22	A – E, G	Participation at PortComms26	Activity to be reflected via the project SM channels, as well as via the website and newsletter.
Phase 4 – Final results analysis M12– M34 (upon each Use Case scenario)	M12 – M34	A – E, G		Periodic updates on the findings/final results for each use case
	M29	A – E, G	5G Forum – presentation at the stand and leaflets	Activity to be reflected via the project SM channels, as well as via

				the website and newsletter.
	M30	A – E, G	EuCNC – presentation at stand and leaflets	Activity to be reflected via the project SM channels, as well as via the website and newsletter.
	M33	A – E, G	Participation in Innovation Day Telefónica Digital	Activity to be reflected via the project SM channels, as well as via the website and newsletter.
	M33	A – E, G	COP-PILOT presentation at PIMIRC	Activity to be reflected via the project SM channels, as well as via the website and newsletter.
	M34	A – E, G	Participation at PortComms27	Activity to be reflected via the project SM channels, as well as via the website and newsletter.

Table 30: Cluster 2 - Communication and Dissemination Matrix

2.9 COMMUNICATION & DISSEMINATION STRATEGY FOR CLUSTER 3A

2.9.1 Cluster 3A Overview

Deployed in the real-world agricultural landscape of Greece's Central Macedonia Region, COP-PILOT Cluster 3A offers a comprehensive approach to modernizing the AgriFood value chain by directly addressing the fragmentation, data silos, and resource inefficiencies that currently impact the sector's sustainability and profitability. Despite the widespread availability of digital tools, many agricultural operations remain reactive, leading to significant challenges such as a 30% yield loss in leafy vegetables due to delayed pest detection, rising chemical costs from untargeted application, and post-harvest spoilage rates exceeding 20% due to inefficient logistics.

The vision of Cluster 3A is to transform this fragmented landscape into a seamlessly integrated, intelligent, and responsive ecosystem. This is achieved by leveraging cutting-edge technologies (like real-time orchestration, AI-driven decision-making, and blockchain-secured traceability) to modernize the value chain and enhance product quality from the farm to the consumer. The project seeks to establish a scalable and replicable blueprint for the digital transformation of the AgriFood sector, demonstrating how smart innovation can lead to measurable improvements in sustainability, efficiency, and resilience.

This is achieved by shifting from disconnected systems to a unified environment through a series of **key objectives**:

- **From Fragmentation to Orchestration:** The Cluster connects disparate systems, including IoT sensors, unmanned aerial vehicles (UAVs), robots, and farm management information systems (FMIS), into a single, real-time operating environment.
- **From Reactive to Predictive Farming:** Through integrated AI and advanced analytics, the system enables predictive insights, allowing for early detection of issues and timely, targeted interventions.
- **From Data Silos to Interoperability:** A harmonized data layer is established to ensure seamless information flow across different technologies and stakeholders, breaking down traditional data barriers.
- **From Traceability Gaps to Trusted Transparency:** The integration of blockchain technology provides a secure and transparent supply chain, building trust from the farm all the way to the consumer.
- **From Manual Logistics to Dynamic Optimization:** The system leverages real-time telemetry and smart routing to significantly reduce post-harvest spoilage, emissions, and delivery times.

These objectives are put into practice through four distinct use cases, each designed to address a specific challenge within the AgriFood sector:

- **UC#3A.1 – Integrated Precision Agriculture and Crop Monitoring:** This use case tackles the problem of fragmented monitoring by unifying data from IoT sensors, wearables, UAVs, and satellite imagery into a single, real-time observation platform, enabling precision insights and early detection.
- **UC#3A.2 – Advanced AgriRobotics for Autonomous Intervention:** By leveraging data-informed, autonomous ground vehicles (UGVs) with edge AI, this use case replaces reactive manual operations with targeted interventions, reducing excessive chemical usage.
- **UC#3A.3 – Secure Data Management and Interoperability:** Leveraging a multi-cloud orchestration platform for secure data exchange and blockchain for record transparency, this use case effectively tackles the challenge of data silos.
- **UC#3A.4 – Smart Logistics and Supply Chain Optimization:** To significantly reduce spoilage and emissions, the final use case boosts the efficiency and transparency of pre- and post-harvest operations. This is achieved through the application of Just-in-Time (JIT) logistics, powered by real-time telematics, dynamic route optimization, and optimal logistics planning.

In doing so, Cluster 3A aims to prove how modern orchestration, AI, and secure data management can lead to measurable improvements in sustainability, product quality, and operational efficiency, showcasing a clear path towards a more resilient and transparent food supply chain.

The **Communication and Dissemination strategy** for Cluster 3A will follow a phased approach, evolving from targeted engagement with niche audiences in the early stages to broader stakeholder outreach as real-world data and use cases mature. Supported by partner networks and verifiable field results, the goal is to foster collaboration among farmers, tech providers, researchers, and policymakers. The Cluster will contribute practical documentation, reference architecture, and potential business models to the wider project ecosystem, thereby highlighting the societal and

economic value of intelligent agricultural innovation in addressing pressing climatic and structural challenges.

2.9.2 Cluster 3A - Audience Mapping and Key Messages

Following a detailed mapping and analysis of key stakeholders, the strategy for Cluster 3A identified the following groups and the core messages tailored to resonate with each of them.

#	Target Group	Cluster 2 Specific TG	Cluster 2 TG Key players	Key messages
TG A	Cloud, edge, and IoT service providers and users	Edge Computing HW, IoT Sensor, Cloud Service and Infrastructure, Data Analytics, Energy Management, Secure Data Sharing, Communication and Connectivity Providers	INTEL, NOKIA, NEC, Fujitsu, Fraunhofer, GS1, ATOS, IBM, Huawei, Orange, SAP, Siemens <i>*These stakeholders will primarily be reached through BDVA Data Week, AIOTI Days, FIWARE events, and other EU digital ecosystem events rather than 1-to-1 engagement.</i>	Enable deployment and validation of interoperable cloud–edge–IoT architectures that support trusted data exchange, scalable AI workloads, and real-time analytics across distributed environments. Strengthen alignment with EU data spaces, AI frameworks, and interoperability standards to accelerate industrial adoption.
TG B	Critical infrastructures operators and owners	Water utilities and infrastructure operators, industrial facility owners, municipal and regional infrastructure authorities	Regional irrigation and water authorities (TOEVs / OEBs); OTE Group, Vodafone Greece, Nova; Greek Ministries responsible for Infrastructure & Transport; Agriculture, Environment and Energy. <i>*These stakeholders will primarily be reached through regional and national, events, as well as sectoral workshops rather than 1-to-1 engagement.</i>	Improve operational resilience, monitoring capability, and regulatory compliance of critical infrastructure through secure and interoperable digital solutions validated in real-world environments. Enable data-driven decision-making for efficiency, risk reduction, and infrastructure optimisation.
TG C	Public sector	EU and national public authorities, policymakers, and regulatory agencies	European Commission (DG AGRI, DG CONNECT, DG SANTE – Health and Food Safety); national ministries for	Support implementation and enforcement of EU digital and data legislation (Data Act, AI Act, GDPR) through secure, auditable, and

			<p>agriculture, digital policy, and infrastructure; European Parliament (AGRI and ITRE Committees); European Food Safety Authority (EFSA); Body of European Regulators for Electronic Communications (BEREC)</p> <p><i>*These stakeholders will primarily be reached through policy forums, EU consultations, and stakeholder events rather than 1-to-1 engagement.</i></p>	<p>interoperable data infrastructures. Enable cross-border data governance while strengthening sovereignty, trust, and policy coherence across the agri-food and infrastructure domains.</p>
TG D	Knowledge providers	Universities, research organisations, RTOs, Digital Innovation Hubs, competence centres	<p>Wageningen University & Research, Fraunhofer, CERTH, CEA, VTT, EDIHs, BDVA, AIOTI, universities and research institutes active in AI, interoperability, cybersecurity, data spaces, and agri-food digitalisation</p> <p><i>*These stakeholders will primarily be reached through research collaborations, clustering activities, and EU project networks rather than 1-to-1 engagement.</i></p>	<p>Advance co-creation of interoperable, standards-based digital solutions through research and innovation ecosystems. Strengthen knowledge transfer, methodological harmonisation, and validation of emerging technologies supporting EU data spaces and agri-food digital transformation.</p>
TG E	Entrepreneurial ecosystems and technology providers	Farmers, cooperatives, agronomists, food manufacturers and processors, Agri-food SMEs,	<p>ThesGI Cooperative, Enipeas Cooperative, Cooperative of Chalastra B, Aichmeas Cooperative, Farmers contracted to Barba Stathis S.A.</p>	<p>A. Towards Farmers and cooperatives</p> <ul style="list-style-type: none"> • Simplifies reporting and compliance through interoperable tools. • Enables trusted data exchange across value chain actors.

		technology providers	<p>Nestlé, Lactalis, Danone, Unilever, Friesland Campina, Arla Foods, Danish Crown, etc.</p> <p><i>*These stakeholders will primarily be reached through regional, national, and international events, fairs, and ecosystem engagement activities rather than 1-to-1 engagement.</i></p>	<ul style="list-style-type: none"> • Enhances market access through blockchain-backed records. • Supports eco-schemes and PES mechanisms. <p>B. Towards SMEs and large Agrifood companies</p> <ul style="list-style-type: none"> • Secures reliable data for food safety and sustainability claims. • Strengthens brand value via traceable supply chains. • Reduces risks from fragmented datasets. • Facilitates integration with certification and audits. <p>C. Towards Technology providers</p> <ul style="list-style-type: none"> • Showcases scalable blockchain, cloud, and interoperability solutions. • Enables trusted digital ecosystems in agri-food. • Promotes standards-based architectures and avoids vendor lock-in. • Expands market opportunities aligned with EU Green Deal priorities.
TG F	Civil sector	Consumers and general public	<p>Consumer associations, NGOs, sustainability organisations, general public.</p> <p><i>*These stakeholders will primarily be engaged through dissemination and awareness activities, including public campaigns,</i></p>	<ul style="list-style-type: none"> • Strengthen consumer trust and confidence in food systems through transparent, verifiable, and tamper-proof information on origin, sustainability, and quality. • Enable informed purchasing decisions that support

			<i>events, and digital communication channels, rather than direct 1-to-1 interaction.</i>	sustainable production and fair value chains.
TG G	Regulatory and certification bodies	Accreditation bodies, notified bodies, certification organisations, standards bodies	<p>CEN, CENELEC, ETSI, national standardisation bodies (e.g., DIN, AFNOR), organic certification bodies; GLOBALG.A.P.; DIO, PHYSIOLOGIKE IKE, BIOHELLAS S.A., A CERT S.A., IRIS, GREEN CONTROL, GEOTECHNICAL LABORATORY S.A., GMCERT LTD, Q-CERT S.A., TÜV HELLAS S.A., OXYGONO - GREEK CERTIFICATION BODY, TÜV AUSTRIA HELLAS M.E.P.E., Q-Check, EUROCERT, COSMOCERT, TERRA CERT</p> <p><i>*These stakeholders will primarily be reached through standardisation forums, regulatory workshops, and certification ecosystem events rather than 1-to-1 engagement.</i></p>	<ul style="list-style-type: none"> • Improve efficiency, interoperability, and trust in certification and standardisation processes through secure and auditable digital infrastructures. • Enable harmonised EU compliance mechanisms and enhance global credibility of certification schemes via digital traceability and verification systems.

Table 31: Cluster 3A - Audience mapping and key messages

2.9.3 Cluster 3A - Implementation Phases

The implementation of Cluster 3A is structured into four phases, each representing a critical milestone in its technical and operational evolution. The table below provides a detailed breakdown of these phases, outlining the specific activities and key deliverables associated with each stage.

Timeframe	Phase	Description of activities
M6 – M12	Phase 1	Testbed Preparation: Initial work on Barba Stathis' demo fields (plot allocation, sensor positioning design, UAV/UGV flight planning). IoT devices and wearable sensor specifications are already being defined.

		<p>5G MPN Setup: OTE progresses with design, deployment and configuration of the private 5G network to enable low-latency UAV/UGV and IoT operations.</p> <p>Data & API Harmonisation: Early API definitions with FIWARE, iLink logistics, and AUA AI models are under preparation, with integration testing scheduled to start in Phase 1.</p>
M11 – M18	Phase 2	<p>Development: First prototype with FMIS core modules, IoT/UAV/satellite interfaces, blockchain layer, and dashboard v1.</p> <p>Deployment: Cluster 3A testbed launched with 5G MPN, UAV/UGV initial runs, and real-time data exchange. First prototype delivered. FMIS core modules (crop model, task scheduling, weather data integration). Interfaces for IoT, UAV, and satellite ingestion. First API integrations (FIWARE with iLink logistics, AUA AI model, UAV/UGV). Blockchain layer connection. ATSI dashboard v1 operational.</p> <p>Validation: Early interoperability checks between COP-PILOT components, FMIS, UAV/UGV, blockchain, and logistics modules. Cluster 3A testbed is operational. 5G MPN deployed. FMIS with real-time data flows. First UAV/UGV pilot runs. Validation of data.</p>
M17 – M27	Phase 3	<p>Development: Second prototype with expanded FMIS and full COP-PILOT integration; Open Call winners connected.</p> <p>Deployment: First full testbed run with end-to-end flows from field to retail under COP-PILOT orchestration.</p> <p>Validation: Pilot assessment results and system “stress-test” covering UAV–UGV ops, secure data exchange, and smart JIT logistics. First full testbed run. End-to-end orchestration of all UC3A flows under COP-PILOT. Field → industry → retail integration validated. Stress-tests and cross-domain event triggering (“systems evaluation”).</p>
M26 – M36	Phase 4	<p>Development: Final prototype with full FMIS features</p> <p>Deployment: Complete integration of all UC3A scenarios; COP-PILOT stack alignment verified.</p> <p>Validation: Final performance and impact assessment, including technical and business KPIs, with recommendations for replication and rollout.</p>

Table 32: Cluster 3A - Implementation Phases

2.9.4 Cluster 3A - Communication and Dissemination Plan

2.9.4.1 Communication tactics

The Communication strategy for Cluster 3A is founded on a dual approach. It will systematically leverage all official COP-PILOT communication channels, such as the project website, social media accounts, newsletters, blog posts, etc., to showcase the cluster's progress and key achievements. Also, the established communication platforms of the Cluster 3A partners will be utilized to amplify reach, strengthen visibility, and maintain a consistent message across a broader range of stakeholder audiences.

This coordinated effort is designed to ensure that all significant milestones, validated outcomes, and the broader replication potential of the Cluster are effectively shared, as outlined in Table 40 of this document.

2.9.4.2 Dissemination tactics

Dissemination activities have been strategically selected to align with the project's key milestones and stakeholder objectives. The specific opportunities are outlined in the sections and tables that follow.

Timing	Presentation	Description	Occasion	Partners involved
M11	Presentation at Agrifood Innovation Workshop	Smart Sensor Technology showcase	Agrifood Innovation Workshop (industry-academia event)	TOR
M17	Presentation to farmers on field	On-field demonstration and feedback session with farmers focusing on system usability and adoption feedback	Field workshop / pilot demonstration in operational environment	BAR, Agroapps, AUA
TBC	AgriTech Transformation and Sustainability Initiative (ATSI)	High-level Cluster 3A presentation introducing project objectives, architecture, and expected impact	EU agri-food and digital innovation events	All Cluster 3A partners
TBC	Presentation of the Cluster 3A / weed spraying pilot/robot	Project presentation	SynErgia Days – Agricultural University of Athens	All Cluster 3A partners

Table 33: Cluster 3A - Publicly available presentations

Timing	Presentation	Description	Occasion/Event	Partners involved
M11, M23	Cluster 3A presentation	Stand with presentations and leaflets	ANUGA	BAR
M14	Cluster 3A presentation	Stand with presentations and leaflets	Agrotica	AgroA, BAR

M18 (17-19 June 2026)	Cluster 3A presentation	Stand with presentations and leaflets	Beyond EXPO	AgroA
2026	Cluster 3A presentation	TBD (Banner of the Project or stand with leaflets)	AUA-based Agricultural machinery & robotics Workshop	AUA

Table 34: Cluster 3A - Presentations in booths

Timing	Presentation	Description	Occasion/Event	Partners involved
M11, M23	Cluster 3A presentation	Stand with presentations and leaflets	ANUGA	BAR
M14	Cluster 3A presentation	Stand with presentations and leaflets	Agrotica	AgroA, BAR
M18 (17-19 June 2026)	Cluster 3A presentation	Stand with presentations and leaflets	Beyond EXPO	AgroA
2026	Cluster 3A presentation	TBD (Banner of the Project or stand with leaflets)	AUA-based Agricultural machinery & robotics Workshop	AUA

Table 35: Cluster 3A – Leaflets and flyers distribution

Timing	Title of the paper	Description	Journal	Partners involved
M10	Recent advances in wearable and implantable electrochemical (bio)sensors for plant health monitoring	Review concerning the wearable and implantable electrochemical sensors applied for plant health monitoring	TrAC Trends in Analytical Chemistry	TOR
M11	Paper-based metal-air battery electrochemical sensor for smartphone-assisted oxygen	Development of a paper-based sensor for oxygen monitoring in food packages (namely mushrooms, broccoli, and spinach)	Sensors and Actuators A: Physical	TOR

	monitoring in food packaging			
M12	A 3D Printed Platform for Sample Treatment and Detection of Phytic Acid in Spinach Leaves Using a Paper-Based Electrochemical Biosensor	A paper-based electrochemical biosensor integrated in a 3D printed analytical tool for quantification of phytic acid in spinach leaves	Biosensors and Bioelectronics	TOR

Table 36: Cluster 3A – Scientific papers in highly impactful journals

Timing	Title of the symposia/exhibition	Description	Partners involved
M4	Beyond Expo 2025	Project presentation	AgroA
M6	6th Symposium on Circular Economy and Sustainability	Project presentation, with focus on Cluster 3A	iLINK
M11, M23	ANUGA	Stand with presentations and leaflets	BAR
M14	31st AGROTICA International Fair	Stand with presentations and leaflets	AgroA, BAR (TBD)
M17	CEI-Sphere Webinar: Privacy-Enhancing Technologies for information security in edge-cloud applications	Panel participation and presentation showcasing the use of blockchain technologies in Cluster 3A to support traceability and transparency in agricultural production.	iLINK
M17	CEI-Sphere Webinar: Solving Connected Data Challenges	COP-PILOT Cluster 3A presentation, focusing on the Cluster's vision, the integrated AgriFood pilot, and interoperability.	iLINK
M17	TRA 2026	Project presentation at stand	iLINK
M18 (17-19 June 2026)	Beyond EXPO 2026	Stand with presentations and leaflets	AgroA
2026	EGME symposium	Presentation	AUA

Table 37: Cluster 3A – Participation in symposia and industrial exhibitions

Project	Project description	Collaboration	Partners involved
AgriBot	AgRibot integrates agricultural robotics, XR/AR systems, and 5G private networks to improve occupational safety, reduce environmental impact, and boost competitiveness, aligned with CAP and Farm-to-Fork strategies.	AgRibot can leverage COP-PILOT's 5G-enabled testbeds and UAV/UGV orchestration workflows to validate its XR/AR tools in real farming environments.	AgroA, AUA
AgriMate	AgRimate develops a scalable, AI- and AR-driven solution for olive grove and vineyard pruning. It integrates robotics and AR guidance tools with expert knowledge, plus socio-economic and environmental impact assessment.	AgRimate can benefit from COP-PILOT's data interoperability and edge computing infrastructure to support validation of AI-assisted pruning workflows and decision-support tools in representative agricultural environments.	AUA
Agrowell	AGRO-WELL enhances occupational safety and health (OSH) in agriculture by co-designing robotics, AR, and AI solutions. It addresses accident risks, decision-making, and business models that prioritise safety across four farming systems.	AGRO-WELL can benefit from COP-PILOT's interoperability testing environment to validate safety-driven robotics and AR applications under real-time, multi-actor workflows.	AUA
AgroBoost	AGROBOOST runs six large-scale pilots across Europe (tree pruning, mushroom harvesting, automated weeding, strawberry picking, livestock management, steep-slope viticulture). It integrates robotics, AI, AR, and automation with training curricula, business models, and Open Call support for third parties.	AgroBoost can leverage COP-PILOT's digital infrastructure and interoperability frameworks to support cross-pilot validation, data sharing, and demonstration of robotics and automation solutions in diverse agricultural contexts.	AUA
ICAERUS	ICAERUS promotes the multi-purpose use of drones in agriculture, forestry and	Will align UAV/UGV orchestration and AI-based sensing under 5G testbeds,	AUA participated and

	biodiversity, livestock monitoring, rural logistics, combining AI-based analytics, safety/regulation frameworks, and demonstrators across European use cases.	harmonise data models and APIs (FIWARE/IDSA), and jointly disseminate results through demos, events within drone-agri ecosystems.	presented at this event.
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Table 38: Cluster 3A – Liaison with other projects

Consortium partner	Industry partner	Relevance for COP-PILOT
AGA	Vezyroglou Farm Vertical production unit of leafy vegetables	Agri-Food industry, Supply chain, F2F, Packaged fresh leafy vegetables

Table 39: Cluster 3A - Industry links

2.9.4.3 Cluster 3A Communication and Dissemination Matrix

The comprehensive table below provides a consolidated view of the Communication and Dissemination strategy for Cluster 3A. It systematically links key activities and tactics to the project's distinct phases and target audiences. Given the dynamic nature of collaborative EU projects, this strategy has been designed to be flexible and will be adapted as new opportunities arise, particularly through ongoing cooperation with other relevant EU Horizon initiatives.

Project phase and activities	Timing	Target Aud.	Dissemination Activities	Communication Activities
Phase 1 (M6 – M12) Testbed Preparation 5G MPN Setup	M6-M12	A-G	-	Cluster 3A – Cluster and partners presentations via the project website , social media posts (here and here), and YT videos . Periodic updates of progress on the COP-PILOT and partners' SM channels. Progress info shared via the project newsletter .
	M4	A-E, G	Participation at Beyond Expo	The activity was reflected on the project website and newsletter
	M6	A-E, G	6th Symposium on Circular Economy and Sustainability	The activity was reflected on the project SM channels (LinkedIn and Mastodon), website , and newsletter
	M10	A-E, G	Paper in TrAC Trends in Analytical Chemistry	The paper was promoted via LinkedIn , the website , and newsletter

<p>Phase 2 (M11 - M18)</p> <p>Development: First prototype</p> <p>Deployment: Cluster 3A testbed launched</p> <p>Validation: Early interoperability checks</p>	M11	A-E, G	Paper in Sensors and Actuators A: Physical	The paper was promoted via LinkedIn , the project website , and the newsletter .
	M11	A-E, G	TOR presentation at Agrifood Innovation Workshop	The activity was reflected on the project website and on social media (LinkedIn post, Mastodon and LinkedIn newsletter)
	M11	A-E, G	BAR participation at ANUGA	The activity was reflected on the project SM channels , websites , and newsletter
	M11	A-E, G	AUA presentation at ICAERUS Demo event. Clustering activity within the agri-tech community	The activity was reflected on the project SM channels (LinkedIn and Mastodon), project website , and newsletter .
	M12	A-E, G	Paper in Biosensors and Bioelectronics	Paper promoted via the project SM channels (LinkedIn and Mastodon), the project website , and newsletter .
	M14	A-E, G	Partners' participation at Agrotica – project presentation, presentation of preliminary results, and distribution	The activity was reflected on LinkedIn and the project website
	M17	E	Presentation to the farmers in the field	The activity was reflected on the project website .
	M17	A-E, G	CEI-Sphere Deep-dive Workshop – “Solving Connected Data Challenges”. Presentation of COP-PILOT Cluster 3A vision and integrated AgriFood pilot.	The activity was reflected on COP-PILOT LinkedIn and Mastodon profiles, as well as on the project website .
	M17	A-E, G	Participation in the CEI-Sphere webinar titled "Privacy-Enhancing Technologies for information security in edge-cloud applications".	The activity was reflected on the project website , LinkedIn , and Mastodon accounts

			Presentation on the use of blockchain technologies in Cluster 3A to support traceability and transparency in agricultural production processes.	
	M17	A-E, G	Participation in TRA 2026	The activity was reflected on the project website
Phase 3 (M17 – M27) Development: Second prototype; Open Call winners connected. Deployment: First full testbed ran Validation: Pilot assessment results	M18	A-E, G	Partners' participation at Beyond EXPO – project presentation, presentation of preliminary results, and leaflet distribution	The activity was reflected on the project website , LinkedIn , and Mastodon accounts
	M23	A-E, G	BAR participation at ANUGA	Reflect this activity on the project and partners' SM channels and websites
	By M24	A-E, G	Cluster 3 presentation at AUA-based Agricultural machinery & robotics Workshop	Reflect this activity on the project and partners' SM channels and websites
	By M24	A-E, G	Presentation during EGME symposium	Reflect this activity on the project and partners' SM channels and websites
Phase 4 (M26 – M36) Development: Final prototype with full FMIS features Deployment: Complete integration of all UC3A scenarios; COP-PILOT stack alignment verified. Validation: Final performance and impact assessment	M27	A-G	-	Results of the tests and validations to be promoted via blog posts on the project website, newsletter, and SM
	M27-36	A-G	Multiple presentations in relevant events when the opportunity arises	Reflect this activity on the project and partners' SM channels and websites
	M36	A-G	-	Overall results of the Cluster 3A to be promoted via blog posts on the project website, newsletter, SM, and (TBD) an impact video

Table 40: Cluster 3A - Communication and Dissemination Matrix

2.10 COMMUNICATION & DISSEMINATION STRATEGY FOR CLUSTER 3E

2.10.1 Cluster 3E Overview

Deployed in Greece, Cluster 3E supports Europe's transition towards low-carbon energy systems and the wider adoption of renewable energy sources.

The cluster focuses on addressing major challenges associated with energy systems that have a high penetration of Distributed Energy Resources (DERs). These include grid congestion, overvoltage issues, and the integration of variable renewable energy sources such as solar and wind. One of the key challenges is the limited ability to capture and manage grid flexibility in real time, which is essential for monitoring the increasingly dynamic behaviour of modern distribution networks. Without real-time visibility and control, grid operators face difficulties in anticipating and mitigating issues such as thermal limit violations and network congestion, potentially leading to service disruptions and costly outages. To address this, the cluster enables hard real-time monitoring by combining real-time consumption and generation data with power system simulations, supporting a more proactive approach to grid management.

Cluster 3E aims to facilitate the seamless integration of renewable energy sources and flexible loads into active distribution networks through the use of advanced edge intelligence, predictive analytics, and IoT-enabled platforms. Its objectives are closely aligned with the broader goals of the COP-PILOT project:

- Decrease operational issues in distribution grids with real-time analytics.
- Ensure an uninterrupted power supply for fast EV charging stations.
- Ensure reliable electricity generation from biogas.

These objectives are put into practice through three distinct use cases, which demonstrate how predictive technologies and edge intelligence can enhance the resilience and efficiency of critical energy infrastructure.

- **UC#3E.1** addresses grid-related issues in a laboratory testbed at the University of Patras. It uses a cloud-edge platform to harvest real-time flexibility in active electricity distribution grids. By leveraging IoT data from smart meters and DERs, the testbed emulates and optimizes flexibility services that mitigate network congestion and voltage violations.
- **UC#3E.2** focuses on predictive maintenance and intelligent forecasting for EV chargers managed by DEI. The goal is to improve charger uptime and optimize electricity usage, thus accommodating Greece's growing demand for clean mobility solutions. Edge intelligence is used for early failure detection and real-time operational insights, ensuring the reliability of the EV infrastructure.
- **UC#3E.3** takes place at a biogas plant in Preveza. This use case introduces a digital twin for the anaerobic digestion process, enabling predictive maintenance, real-time monitoring, and electricity production forecasting. This system ensures high availability and performance of biogas facilities, which are crucial for providing renewable energy within a flexible grid architecture.

The business impact of this cluster is considerable. By using real-time analytics and predictive maintenance, the cluster supports the reduction of downtime, lowers operational costs, and improves the efficiency of energy generation and consumption. Its solutions for EV charging stations and biogas facilities contribute to a more stable energy supply and facilitate the integration of renewable energy sources, creating added value for energy companies operating in an increasingly sustainability-driven market. In addition, improved grid stability management opens new opportunities for services targeting energy producers, grid operators, and consumers.

The Communication and Dissemination strategy for Cluster 3E aims to position the cluster as a strong example of how advanced technologies can improve the resilience and efficiency of energy grids. The strategy focuses on raising awareness among grid operators, energy providers, and policymakers of the benefits of real-time analytics and predictive maintenance in supporting grid stability, reducing costs, and enabling the integration of renewable energy sources. It also targets consumers and industry stakeholders by demonstrating how intelligent forecasting and smart energy management can help ensure reliable power supply for critical infrastructures such as EV charging stations and biogas facilities. Through technical documentation, case studies, and knowledge-sharing activities, the cluster will provide a practical reference for the replication of its solutions in other European contexts.

2.10.2 Cluster 3E - Audience Mapping and Key Messages

Following a detailed stakeholder mapping and analysis, the key audiences for Cluster 3E have been identified and categorised. These groups span multiple sectors and include both technical and non-technical stakeholders with an interest in grid stability, energy efficiency, and the integration of renewable energy sources. For each audience category, tailored messages and communication objectives have been developed to ensure relevant and effective engagement.

#	Target Group	Cluster 2 Specific TG	Cluster 2 TG Key players	Key messages
TG A	Cloud, edge, and IoT service providers and users	Providers of cloud and edge orchestration platforms (edge gateway manufacturers, 5G and connectivity providers, and users like PPC and BPO deploying IoT services at the edge.	Atos, Microsoft Azure IoT, OpenShift, Ewon, PNET	Cluster 3E demonstrates how real-time analytics and service orchestration at the edge enhance system reliability and performance in energy and mobility domains. It offers concrete insights on deploying cloud-edge IoT architectures in critical infrastructure (EV charging and biogas) environments.
TG B	Critical infrastructures operators and owners	EV charging network operators (PPC/DEI), Biogas plant operators (BPO), Distribution	ABB E-Mobility, Siemens Smart Infrastructure, Kempower, Heliox, Solaris Bus & Coach, Van Hool, Irizar e-mobility, Enel X Way,	Cluster 3E showcases how predictive maintenance, flexibility forecasting, and digital twins reduce downtime, increase system reliability, and support

		System Operators (DSOs) like HEDNO, and smart grid controllers.	Terna, E-Distribuzione, Fastned, Allego, Hitachi Energy, EVBox, Ebusco, MAN Truck & Bus, Mercedes-Benz eCitaro.	smarter infrastructure management for EV charging stations, active distribution networks, and biogas plants.
TG C	Public sector		<p>EU Level DG MOVE (EC), BRIDGE, Smart Energy Expert Group SEEG (notably Data4Energy, Cybersecurity, Customer Empowerment subgroups); smartEN (European association of the Flexible Demand Management Industry), Association of European Transmission System Operators ENTSOE, Association of European Distribution System Operator E.DSO, Coalition of the Willing for Bidirectional Charging, Digital4Energy Expert Group, AVERE, Eurelectric, Sustainable Transport Forum, ICLEI.</p> <p>National level Municipalities deploying EV or renewable infrastructure (e.g. City of Patras, Region of Western Greece), national regulatory agencies (RAE- the Greek NRA), and local councils supporting decarbonization initiatives.</p>	The pilots in Cluster 3E contribute to energy transition goals by supporting resilient, smart infrastructure in urban and rural contexts. They enable better planning and service delivery through digital tools that improve energy reliability and environmental outcomes.

TG D	Knowledge providers	Universities, research groups on energy informatics, EU research networks	University of Patras (UoP), ETIP SNET, BRIDGE.	Cluster 3E provides rich experimental environments for research on edge computing, digital twins, AI-driven maintenance, and energy system flexibility. It demonstrates real-world applications of advanced research in collaboration with industry.
TG E	Entrepreneurial ecosystems and technology providers	Startups and SMEs working on energy IoT, digital twins, predictive maintenance (e.g., Greek cleantech spin-offs, European innovation clusters), IT integrators and analytics providers.	Schneider Electric, Delta Electronics, Heliox, Huawei Digital Power, Nuvve, Driivz, IoTecha, Eaton, Phoenix Contact E-Mobility. Hubeject, GreenFlux, ChargePoint, Driivz, Electromaps, EVBox software team, ViriCiti, eMobility Excellence, Virta Global, Kaluza Flex.	The pilots reveal emerging opportunities for startups and SMEs to develop and integrate edge services, monitoring solutions, and analytics for energy and mobility systems. They highlight scalable deployment patterns for innovative technologies in real infrastructure.
TG F	Civil sector	EV drivers in urban hubs (e.g. Athens, Thessaloniki), residents near biogas plants benefiting from cleaner energy, energy cooperatives, and prosumers participating in local flexibility markets.		Cluster 3E improves the reliability and sustainability of energy and mobility services that directly affect citizens, such as fewer EV charger failures and more efficient renewable energy use. It promotes trust in digital and green transitions.
TG G	Regulatory Bodies	Ministry of Environment & Energy (GR), EU Commission (DG ENER, DG CNECT), regulators (RAE, ENTSO-E), and bodies involved in V2G, energy communities, and		Cluster 3E offers evidence on how distributed intelligence, edge analytics, and multi-domain coordination can support EU energy and mobility policies, particularly in the areas

			cross-border flexibility legislation.	of V2G, circular economy, and grid flexibility. It supports policymaking through real-world validation.
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Table 41: Cluster 3E - Communication and Dissemination Matrix

2.10.3 Cluster 3E - Implementation Phases

The table below presents the structured development path of Cluster 3E, organised into four distinct phases. Each phase represents an important milestone and includes a detailed overview of the related activities and expected outcomes.

Timeframe	Phase	Description of activities
M07–M12 (Q3–Q4 2025)	Phase 1: Pilot Preparation	Domain-related sensors installation for all use cases (UC#3E.1, UC#3E.2, UC#3E.3). Initiates real-world data collection and initial testing of applications.
M13–M18 (Q1–Q2 2026)	Phase 2: First running phase	Development of data management adaptors and protocols (FIWARE-based) to ensure interoperability across UCs. First fully functional prototype
M19–M27 (Q3 2026–Q1 2027)	Phase 3: Second running phase	Microservices refinement based on pilot data insights. Edge-side processing and analytics optimization. Second refined version of the prototype. Integration of open call winners
M28–M34 (Q2 2027–Q4 2027)	Phase 4: Final evaluation and impact assessment	Full integration of all the scenarios and final evaluation of the COP-PILOT platform in cluster 3E.

Table 42: Cluster 3E - Implementation phases

2.10.4 Cluster 3E - Communication and Dissemination Plan

2.10.4.1 Communication tactics

To effectively communicate the progress of Cluster 3E, its activities and milestones were and will continue to be actively promoted through all official COP-PILOT channels, including the project website, social media, and newsletters. In parallel, the communication channels of cluster partners were and will be leveraged to expand outreach and ensure consistent messaging across diverse stakeholder groups. This coordinated approach is intended to support the effective dissemination of the cluster’s progress, impact, and replication potential, as outlined in the Cluster 3 Communication and Dissemination Matrix (Table 48).

2.10.4.2 Dissemination tactics

Various dissemination opportunities have been identified across the project timeline, each aligned with key milestones and stakeholder engagement objectives. Further details are provided in the sections and tables below.

Timing	Presentation	Description	Occasion/Event	Partners involved
M14	COP-PILOT project presentation at the stand	The presentation emphasized how COP-PILOT enables cross-sector applications through a unified framework for onboarding, orchestration, and management across the Edge-Cloud continuum.	PatrasIQ	UoP p-NET
M18 – June 2026	COP-PILOT project presentation at the stand	Demonstrate UC#3E.1, <i>Harvesting in Real-Time Flexibility from Active Electricity Distribution Grids</i>	EM Power Europe	EnakronIC
M23 - November 2026	COP-PILOT project presentation at the stand	Disseminate the project's cluster in the special booth session of EU-funded projects.	ENLIT EUROPE	UoP PPC BPO EnakronIC pNET
M35 - November 2027	COP-PILOT project presentation at the stand	Disseminate the project's cluster results and industry-related benefits in the special booth session of EU-funded projects.	ENLIT EUROPE	UoP PPC BPO EnakronIC pNET

Table 43: Cluster 3E - Presentations in booths

Timing	Presentation	Description	Occasion/Event	Partners involved
M11 – November 2025	COP-PILOT project presentation at the stand	Showcase the Cluster3E pilot, especially the mobility use case, and how the COP-PILOT platform enables V2G scenarios	V2G Leaders	EnakronIC D4P
M14	COP-PILOT project presentation at the stand	The presentation emphasized how COP-PILOT enables cross-sector applications through a unified framework for onboarding, orchestration, and management across the Edge-Cloud continuum.	PatrasIQ	UoP p-NET
M18 – June 2026	COP-PILOT project presentation at the stand	Demonstrate UC#3E.1, <i>Harvesting in Real-Time Flexibility from Active Electricity Distribution Grids</i>	EM Power Europe	EnakronIC

M23 - November 2026	COP-PILOT project presentation at the stand	Leaflet distribution in the special booth session of EU-funded projects.	ENLIT EUROPE	UoP PPC BPO EnakronIC pNET
M35 - November 2027	COP-PILOT project presentation at the stand	Leaflet distribution in the special booth session of EU-funded projects.	ENLIT EUROPE	UoP PPC BPO EnakronIC pNET

Table 44: Cluster 3E – Leaflets and flyers distribution

Timing	Title of the paper	Description	Journal	Partners involved
M36 - By 2027	TBD	Showcase the results and the tangible benefits that energy-related stakeholders may exploit by using the concept proposed in Cluster3E	TBD	All cluster partners

Table 45: Cluster 3E – Scientific papers in highly impactful journals

Timing	Title of the paper	Description	Journal	Partners involved
M10 - October 2025	Model Optimization pipeline for hardware-aware trustworthy edge-residing AI: a grid reliability case study	It describes the methodology developed and used in the COP-PILOT project for the optimal microservices deployment in edge platforms for the energy vertical	EEAI 2025 Conference	enakronIC
M11 - November 2025	From the siloed operation to multi-domain orchestration for resilient V2G Services through cloud-edge collaboration and edge intelligence in EV fast-charging networks: The COP-PILOT Cluster 3E showcase.	Showcase the Cluster3E pilot, especially the mobility use case, and how the COP-PILOT platform enables V2G scenarios	V2G Leaders Event	enakronIC
M22 - October 2026	TBD	Technical description of the entire concept of the cluster 3E from a power system-	MedPower 2026	PPC

		perspective highlighting how COP-PILOT platforms boost reliability in high-RES penetrated power systems		EnakronIC UOP BPO pNET
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Table 46: Cluster 3E – Scientific papers in high-impact topic conferences/workshops

Project	Project description	Collaboration	Partners involved
CEI-Sphere, O-CEI, E POWER MOVE (part of V2X cluster)	https://ceisphere.eu/ https://o-cei.eu/	V2G Leaders event	EnakronIC
CEI-Sphere, O-CEI	https://ceisphere.eu/ https://o-cei.eu/	Empowering Energy Infrastructure: The Role of 5G/6G and Edge Intelligence	EnakronIC
AHEAD (part of V2X cluster)	https://horizon-ahead.eu/	TBD	TBD

Table 47: Cluster 3E – Liaison with other projects

2.10.4.3 Cluster 3E - Communication and Dissemination Matrix

The table below provides a structured overview of the Communication and Dissemination approach for Cluster 3E, mapping project phases to key activities, target audiences, and tailored communication tactics. The strategy is designed to remain flexible and may be adjusted as new opportunities emerge, including through continued collaboration with other relevant EU Horizon initiatives.

Project phase and activities	Timing	Target Aud.	Dissemination Activities	Communication Activities
Phase 1: Pilot Preparation M07–M12 (Q3–Q4 2025)	M07 – M12	TG A-G		Cluster 3E – Cluster and partners' presentations via the project website , social media posts (here and here), and YT videos . Updates on the Cluster activities via the website and newsletter .

	M10	TG A -E, G	“Model Optimization pipeline for hardware-aware trustworthy edge-residing AI: a grid reliability case study” poster presentation at EEAI conference.	The poster was uploaded on the COP-PILOT Zenodo account and on the project website . The activity at the conference was reflected on the project website , social media (LinkedIn and Mastodon), and the newsletter
	M11	TG A -E, G	V2G Leaders event. Showcase the Cluster3E pilot, especially the mobility use case, and how the COP-PILOT platform enables V2G scenarios	The activity was reflected on the project website , LinkedIn , and newsletter
Phase 2: M13–M18 (Q1–Q2 2026)	M14	TG A -E, G	Project presentation at Patras IQ	Participation reflected on the project website , LinkedIn , and Mastodon
	M17	TG A -E, G	AIOTI Workshop on Empowering Energy Infrastructure: The Role of 5G/6G and Edge Intelligence, showcasing the interoperability issues of the energy sector as derived from CL3E.	Participation reflected on the project website , LinkedIn , and Mastodon
	M18	TG A -E, G	EM-Power Europe	Participation reflected on the project website , LinkedIn , and Mastodon
Phase 3: M19–M27 (Q3 2026–Q1 2027)	M19 – M27	TG A-G	-	Periodic updates on the progress via blog posts on the project website/SM
	M22	TG A -E, G	Participation at MedPower 2026	The activity will be reflected on the project website, SM, and newsletter
	M23	TG A -E, G	ENLIT Europe - Disseminate the project’s cluster in the special booth session of EU-funded projects. Leaflet distribution.	The activity will be reflected on the project website, SM, and newsletter

Phase 4: Final evaluation and impact assessment M28–M36 (Q2 2027–Q4 2027)	M28-M36	TG A-G	-	Periodic updates on the progress via blog posts on the project website/SM
	M35	TG A - E, G	ENLIT Europe - Disseminate the project’s cluster in the special booth session of EU-funded projects. Leaflet distribution.	The activity will be reflected on the project website, SM, and newsletter
	M36	TG A - E, G	Paper showcasing the results and the tangible benefits that energy-related stakeholders may exploit by using the concept proposed in Cluster 3E.	The paper will be uploaded to the project website and included in the newsletter.

Table 48: Cluster 3E - Communication and Dissemination Matrix

2.11 COMMUNICATION & DISSEMINATION STRATEGY FOR CLUSTER 4

2.11.1 Cluster 4 Overview

Deployed across a range of industrial and agricultural environments, COP-PILOT Cluster 4 explores how IoT, Machine Learning (ML), and Artificial Intelligence (AI) can enable digital transformation in viticulture, winery production, and broader industrial sustainability. The cluster addresses key challenges linked to the integration of heterogeneous data sources, operational efficiency, sustainability, and ESG performance. Although digital tools are widely available, many organisations continue to face issues such as fragmented information systems, inefficient resource utilisation, and limited data sovereignty, which constrain the full potential of AI-enabled decision-making.

Cluster 4 aims to serve as a flagship demonstration of sustainable, intelligent, and data-driven operations, showcasing how IoT, AI, and advanced data management can optimise processes, improve environmental performance, and deliver socio-economic benefits across agriculture and winery-related activities. This vision is realised through real-world use cases in smart water management, winery operations, and energy-aware agricultural scheduling.

Cluster 4 seeks to deliver these through **key strategic objectives**:

- **Enhance Operational and Economic Efficiency:** Use IoT for real-time insights and process optimization to boost efficiency and process utility, reduce costs, and ensure compliance.
- **Advance Technological Innovation and Sustainability:** Merge IoT, AI, and ML to innovate and automate, reducing environmental footprint and promoting sustainability.
- **Foster scalability and collaborative data-driven insight in EU sovereign and GDPR compliant data ecosystem:** Create scalable GAIA-X/IDSA conform IoT-data frameworks serving EU and global deployment

These objectives are implemented through four integrated **use cases**:

- **UC#4.1** – Recycling, maintenance, and logistics of IoT sensors: Focuses on logistics, maintenance, and recycling of reusable IoT sensors within the wine value chain, promoting sustainability and operational efficiency.
- **UC#4.2** – Smart water management in agriculture: Uses satellite optical remote sensing and data analytics to improve Water Use Efficiency (WUE), supporting ESG principles and the SDGs through precision irrigation.
- **UC#4.3** – Optimized winery production using IoT-enhanced OEE analytics: Employs a FIWARE-based IoT platform and AI/ML-powered MES to monitor Overall Equipment Efficiency (OEE), enabling predictive maintenance and optimized production workflows.
- **UC#4.4** – Energy-Aware Agricultural Operations: Integrates 5G/Wi-Fi IoT sensors, cameras, and robotic quadrupeds powered by renewable energy to optimize vineyard operations, generate KPIs, and support real-time AI-driven decisions.

The Communication and Dissemination strategy for Cluster 4 seeks to establish the cluster as a reference point for sustainable, intelligent, and circular operational models. It is designed to engage industrial operators, agricultural stakeholders, policymakers, and technology providers, illustrating how federated AI, IoT integration, and advanced data governance can be applied in real-world contexts. This is realised and will continue to be done a combination of traditional and social media channels, as well as participation in technology events, trade fairs, and relevant publications.

2.11.2 Cluster 4 - Audience Mapping and Key Messages

Following a comprehensive stakeholder mapping and analysis, Cluster 4 has identified its primary audience groups and developed tailored core messages for each of them.

#	Target Group	Cluster 4 Specific TG	Cluster 4 TG Key players	Key messages
TG A	Cloud, edge, and IoT service providers and users	Edge Computing HW, IoT Sensor, Cloud Service and Infrastructure, Data Analytics, Energy Management, Secure Data Sharing, Communication and Connectivity Providers	INTEL, NOKIA, NEC, Fujitsu, Fraunhofer, GS1, ATB, ATOS, IBM, Huawei, INTEL, Orange, SAP, Siemens <i>Note: They all can be reached at BDVA Data Week and AIOTI Days</i>	The work carried out under COP-PILOT Cluster 4 demonstrates how IoT, AI, and ML technologies can drive digital transformation in viticulture, winery production, and industrial sustainability
TG B	Critical infrastructures	Winery owners, managers, and operators	Bodegas Franco-Españolas	The agriculture/vineyards use cases under Cluster

	operators and owners	Vineyard cooperatives, agricultural estates.		4 empower end-users with real-time monitoring and predictive insights to reduce downtime, prevent losses, and optimize operations through accurate data-driven decision-making.
TG C	Public sector	Government, regional innovation offices, and agencies supporting digital transformation and sustainability initiatives.	European Commission (DG AGRI, DG CONNECT, DG SANTE - Health & Food Safety), 27 national agriculture and digital policy ministers; European Parliament (AGRI, ITRE committees), European Food Safety Authority (EFSA); The Body of European Regulators for Electronic Communications (BEREC)	The results of the agriculture use cases demonstrate how data-driven agriculture accelerates digital transformation in the agri-food sector, advancing sustainability and innovation goals.
TG D	Knowledge providers	Universities, research centers	Federación Española del Vino (FEV- Spanish Wine Federation)	These use cases illustrate a real-life use case of IoT and AI usage applied to agricultural/industrial practices.
TG E	Entrepreneurial ecosystems and technology providers	Startups, technology companies offering innovative solutions. SMEs developing sensor hardware, cleaning and calibration technologies, vineyard monitoring solutions, and	La Rioja Digital (AERTIC- Association of technology companies in La Rioja), Agri-tech SMEs, and data/AI startups	These use cases demonstrate a scalable, replicable IoT solution for the agri-food and manufacturing sectors.

		data analytics start-ups		
TG F	Civil sector	General public interested in sustainable wine production, agriculture and digital transformation	General public	These use cases show how technology improves (wine) production quality, efficiency, and sustainability.
TG G	Regulatory Bodies	Regulators and decision-makers involved in industrial digitalization	CEN, CENELEC, ETSI, national standardisation bodies (e.g., DIN), organic certification bodies; GLOBALG.A.P.; DIO, TÜV AUSTRIA HELLAS M.E.P.E., Q-Check, EUROCERT, COSMOCERT, TERRA CERT	COP-PILOT Cluster 4 shows how digitalization supports industrial efficiency, sustainability, and innovation policies, while aligning with EU compliance and standardisation expectations

Table 49: Cluster 4 - Audience mapping and key messages

2.11.3 Cluster 4 - Implementation Phases

Cluster 4 activities are organised into six implementation phases, each representing a key milestone in the cluster’s technical and operational progression. The tables below outline these phases, providing an overview of the main activities and expected results at each stage.

Timeframe	Phase	Description of activities
M1-M6	Phase 1 - Cluster Planning & Use Case Definition	Define the cluster objectives and align them with the use cases <ul style="list-style-type: none"> Identify needs and KPIs for each UC Establish a communication and coordination strategy among partners Prepare initial documentation and work plan
M7-M12	Phase 2 - Cluster Planning & Use Case Definition	<ul style="list-style-type: none"> Develop the technical design of the use cases (sensors, systems, integration) Plan deployment and pilot tests Prepare infrastructure for data and system integration
M13-M18	Phase 3 - Detailed Use Case Design	<ul style="list-style-type: none"> Start integration with COP-PILOT Install and calibrate sensors in pilot testbed

		Specific activities to use cases, i.e.: Configure Raspberry Pi and data collection scripts / deploy water moisture prediction services, etc.
M19-M24	Phase 4 - Sensor & System Deployment	<ul style="list-style-type: none"> • Integrate data into the Orion Context Broker • Configure dashboards and alerts • Convert raw output data to tangible information • Conduct monitoring tests and predictive maintenance Readjust modelling with collected data
M25-M30	Phase 5 - Data Orchestration & Monitoring	<ul style="list-style-type: none"> • Analyze historical and real-time data • Adjust processes and validate efficiency • Evaluate scalability/business impact/interoperability
M31-M36	Phase 6 - Optimization & Validation	<ul style="list-style-type: none"> • Document all experienced successes and issues • Extend the solution to potential new partners • Disseminate results and best practices

Table 50: Cluster 4 - Implementation Phases

2.11.4 Cluster 4 - Communication and Dissemination Plan

2.11.4.1 Communication tactics

The Cluster 4 Communication strategy makes systematic use of all official COP-PILOT channels – the website, social media, newsletters, and traditional media - to showcase progress and key achievements. In parallel, the communication channels of Cluster 4 partners are utilised to broaden outreach, increase visibility, and ensure consistent messaging across different stakeholder groups. This coordinated approach supports the effective dissemination of major milestones, validated results, and replication potential, as detailed in Table 59.

2.11.4.2 Dissemination tactics

Dissemination activities have been defined in alignment with the project’s key milestones and stakeholder objectives. The following sections and tables provide further details on these activities and related opportunities.

Timing	Presentation	Description	Occasion	Partners involved
M10	‘The Value of Data Management and Unification for the Optimization of Wineries’ Production Processes’	Presentation of the use case and its progress in the incorporation of the COP-PILOT project within the working group of the Digitalization and Wine Hub, focused on the digitalization of the production process. The talk will be titled: ‘The Value of Data	Working group of the Digitalization and Wine Hub, focused on the digitalization of the production process.	JIG

		Management and Unification for the Optimization of Wineries' Production Processes'		
M18	Webinar: "Cluster 4 – Smart Vineyards & Sustainable Winery Ecosystems"	This webinar introduces Cluster 4, focusing on how COP-PILOT technologies enable digital transformation in viticulture, winery production, and sustainable IoT device management. The session presents the evolution of Cluster 4 from a cross-sector initiative into a viticulture-centered pilot ecosystem, showcasing use cases UC4.1, UC4.2, and UC4.3	COP-PILOT Open Webinar Series on Piloting Clusters (hosted online, with live Q&A and partner panel discussion)	ONE/JIG/TER/RZ
M30	Webinar: "Cluster 4 – From Smart Vineyards to Circular IoT Innovation"	This webinar presents the concrete achievements of Cluster 4, highlighting measurable impacts in water efficiency, production line optimisation, and sensor lifecycle management. The event also showcases cross-domain collaboration via the COP-PILOT federated architecture and lessons learned.	COP-PILOT Open Webinar Series on Piloting Clusters (hosted online, with live Q&A and partner panel discussion)	ONE/JIG/TER/RZ
M31 – M33	Cluster 4 Webinars – Sustainability & IoT Reuse	This webinar focuses on the sustainability outcomes of Cluster 4, highlighting how COP-PILOT enables responsible IoT device reuse, lifecycle tracking, and circular logistics across vineyards and healthcare environments. The session presents final KPI results, environmental benefits such as reduced e-waste, and extended device lifespans	COP-PILOT Open Webinar Series on Sustainability & Circular Resource Management (hosted online, including partner panel discussion and Q&A)	RedZinc

Table 51: Cluster 4 - Publicly available presentations

Timing	Presentation	Description	Occasion/Event	Partners involved
M28-M30	Preliminary Demonstration	First public demonstration of the COP-PILOT-enabled Digital IoT Recycling workflow. The session showcases early functionality of the system, including sensor data ingestion, lifecycle tracking, automatic trigger points for replacement, and preliminary recycling orchestration.	COP-PILOT Pilot Review & Internal Demonstration Session (early technical preview shared with Cluster partners)	RedZinc
M34-M36	Digital IoT Recycling Platform Demo	Live demonstration showing predictive sensor recovery, data orchestration, and circular logistics workflows.	Final COP-PILOT Conference 2027	RedZinc

Table 52: Cluster 4 - Presentations in booths

Timing	Presentation	Description	Occasion/Event	Partners involved
M11	Project presentation	COP-PILOT flyer distribution during Terraview/ONE UC4.2 demonstration	EuroTech Day 2025	TER/ONE
M15	Project presentation	COP-PILOT flyer distribution during JIG UC4.3 demonstration	Next Wine Generation Day	JIG
M16	Project presentation	COP-PILOT flyer distribution during JIG U.C 4.3 conference	Digivit 2026	JIG

Table 53: Cluster 4 - Leaflets and flyers distribution

Timing	Title of the paper	Description	Conference	Partners involved
M17	Poster in 5GFORUM	“Collaborative Open Platform for PILOTing services across emerging smart IoT and Edge computing environments”	5G Forum	M17

M18	Poster in EuCNC & 6G Summit	“Validating Remote Driving via Field Characterization and Inter-Slice Connectivity”	EuCNC & 6G Summit	M18
M20	Multi-domain orchestration of the next generation of sustainable vineyards	Publication focused on discussing the role of COP-PILOT architecture in the scope of vineyards	TBD	ALL

Table 54: Cluster 4 – Scientific papers in high-impact topic conferences/workshops

Timing	Title of the paper	Description	Partners involved
M14-M17	Aquaview for water irrigation optimisation		
M24-M26	White Paper – Sustainable IoT Lifecycle Management Across Vineyards	White paper exploring sustainable IoT device lifecycle management in vineyards, showcasing COP-PILOT’s role in enabling circular reuse, recycling, and ESG-aligned data governance within digital agriculture	RedZinc
M25-M30	Circular IoT Lifecycle Platform for Sustainable Sensor Management	White paper detailing the architecture, data governance, and impact of the DIRP integration within COP-PILOT	RedZinc

Table 55: Cluster 4 – Technical presentations and white papers

Timing	Name of the symposia/Exhibition	Description	Partners involved
M11	https://cop-pilot.eu/event/eurotech-day-2025/	Presentation in a “station”	TER
M16	Participation with the La Rioja Digital Cluster (Association of ICT Companies of La Rioja) in Digivit, a digital innovation event focused on technology and business transformation.	Presentation of the use case and the project	JIG

Table 56: Cluster 4 – Participation in symposia and industrial exhibitions

Project	Activity	Description	Partners involved
AGRARIAN	Demonstration of Aquaview with soil moisture sensors	Pilot https://agrarian-project.eu/agrarian-at-euro-tech-days/	TER, ONE
6G-PATH	Edge processing	Pilot https://6gpath.eu/6g-path-was-present-at-euro-tech-days/	TER, ONE

Table 57: Cluster 4 – Liaison with other projects

Consortium partner	Industry partner	Relevance for COP-PILOT
JIG	Bodegas Franco-Españolas	Use case

Table 58: Cluster 4 - Industry links relevant for COP-PILOT

2.11.4.3 Cluster 4 - Communication and Dissemination Matrix

The table below summarises Cluster 4’s Communication and Dissemination framework, aligning planned activities and engagement tactics with the different project phases and relevant stakeholder groups. The approach is intentionally adaptable and will evolve throughout the project, including in response to new collaboration opportunities within the wider EU Horizon ecosystem.

Project phase and activities	Timing	Target Aud.	Dissemination Activities	Communication Activities
Phase 1 (M1 – M6) - Cluster Planning & Use Case Definition	M1	A-G	-	Partner LinkedIn post about project launch
	M2	A-G	-	Partner LinkedIn post about project launch
	M2	A-G	-	Partner blog post about project launch/role in Cluster 4
Phase 2 (M6 – M12) - Cluster Planning & Use Case Definition	M6 – M12	A-E, G	-	Cluster 4 presentation via the project website , social media and YouTube . Progress info shared via the project website and newsletter . LinkedIn / LinkedIn / Post in LinkedIn about an article in printed press / Post in Twitter about an article in printed press / Twitter

	M10	A-E, G	Presentation during a webinar – “The Value of Data Management and Unification for the Optimization of Wineries’ Production Processes”	This activity was reflected on the project website , social media (LinkedIn and Mastodon), and captured in the newsletter . LinkedIn / Twitter
	M11	A-E, G	Project presentation and leaflet distribution at Euro Tech Day 2025. Participation in drone spraying and crop protection (https://eurotech.daterra.com.pt/)	This activity was reflected on the project website , LinkedIn , and captured in the newsletter . News article about the start of integration with partner in Portugal by Q1-2026 (TER) https://6gpath.eu/6g-path-was-present-at-euro-tech-days/ https://agrarian-project.eu/agrarian-at-euro-tech-days/
Phase 3 (M13 – M18) - Detailed Use Case Design	M13-M18	A-G	-	Periodic updates of progress on the COP-PILOT and partners’ SM channels. Progress info shared via the project newsletter. LinkedIn / LinkedIn / LinkedIn / LinkedIn / Twitter / Twitter / Twitter Publication in NueveCuatroUno, a specialized media, about the project, Cluster 4, UC 4.3 and its advances. Article
	M16	A-E, G	Project presentation at Wine Next Generation Technical Days	The activity was reflected on the project website , LinkedIn , and Mastodon
	M16	A-E, G	Cluster 4 Pilot 3 Interoperability for Vineyard Decision Support Demonstration at AVIPE 2026	The activity was reflected on the project website , LinkedIn , and Mastodon
	M16	A-E, G	Participation with La Rioja Digital Cluster (Association of ICT Companies of La Rioja) in Digivit, a digital innovation event focused	The activity was reflected on the project website and LinkedIn , as well as on the partners SM accounts. LinkedIn / LinkedIn / LinkedIn / Twitter / Instagram / Instagram /

			on technology and business transformation.	LinkedIn / LinkedIn / LinkedIn / LinkedIn
	M14-17	A-E, G	White paper - Aquaview for water irrigation optimisation	Paper available on Zenodo
	M15-M17	A-E, G	Article - How Sensor Data Is Transforming Production Processes into Intelligent Decision-Making Systems	Promote the article on the project and partners' SM channels and websites
	M18	A-E, G	AI-Driven, Green-Energy Vineyard Management in Soria	Activity reflected on the project website , LinkedIn and Mastodon
Phase 4 (M19 – M24)	M19-M24	A-G	-	Periodic updates of progress on the COP-PILOT and partners' SM channels. Progress info shared via the project newsletter.
	M20	A-E, G	Paper in conference - Multi-domain orchestration of next generation of sustainable vineyards	Promote the paper/conference participation on the project and partners' SM channels and websites
Phase 5 (M25-M30) - Data Orchestration & Monitoring	M25-M30	A-G	-	Periodic updates of progress on the COP-PILOT and partners' SM channels. Progress info shared via the project newsletter.
	M24-M26	A-E, G	White Paper – Sustainable IoT Lifecycle Management Across Vineyards	Promote the paper on the project and partners' SM channels and websites
	M25 – M30	A-E, G	White paper - Circular IoT Lifecycle Platform for Sustainable Sensor Management	Promote the paper on the project and partners' SM channels and websites
	M28 – M30		First public demonstration of the COP-PILOT-enabled Digital IoT Recycling workflow.	Reflect this activity on the project and partners' SM channels and websites
	M30	A-E, G	Webinar: “Cluster 4 – From Smart Vineyards to Circular IoT Innovation”	Reflect this activity on the project and partners' SM channels and websites
Phase 6 (M31– M36) - Optimization &	M31 – M36	A-G	-	Periodic updates of progress on the COP-PILOT and partners' SM channels. Progress info shared via the project newsletter.

Validation	M31-33	A-E, G	Cluster 4 Webinars – Sustainability & IoT Reuse	Reflect this activity on the project and partners' SM channels and websites
	M34-36	A-E, G	Digital IoT Recycling Platform Demo at final COP-PILOT conference	Reflect this activity on the project and partners' SM channels and websites

Table 59: Cluster 4 – Communication and Dissemination Matrix

3 STANDARDISATION

Establishing a relevant European research and technology ecosystem focused on advancing next-generation network technologies, requires a strong commitment to standardisation, whatever the means: pre-standardisation activities, formal standards development, open-source communities, etc. Standardisation not only ensures interoperability, reliability, and scalability within networking and other technologies, but also fosters collaboration and innovation across diverse stakeholders and contributes to the consolidation of an open and sustainable technology ecosystem.

3.1 STANDARDISATION OBJECTIVES

COP-PILOT standardisation activities have a double objective: fostering industry collaboration on open and interoperable solutions in Europe and beyond, and driving the enhancement of next-generation network technologies during the lifetime of the project and even beyond its end.

Through active participation and strategic collaboration, the project aims at consolidating a relevant influence on technology development and the associated policy decisions, mainly at the European level, but also considering national frameworks and a global dimension.

3.2 STANDARDISATION PLAN

To ensure that the project outcomes have maximum impact in the technology and policy aspects mentioned above, COP-PILOT is applying an active supervision of relevant communities and identified the opportunities with highest impact coming from projects results. This is a continuous activity, which will require the necessary adjustments to maximize impact as the projects evolves.

As part of this strategy, the COP-PILOT team has triggered and maintains a track record of active contribution to various standardisation bodies and open-source communities identified as relevant targets. The standardisation task focuses on coordinating with these groups to maximize the impact of technical project results. Additionally, both policy bodies and industrial associations are also monitored, seeking out any relevant fora where the project outcomes can provide valuable contributions.

To coordinate these activities, the consortium standardisation task works closely with the technical activities and experts already engaged in relevant standardisation activities. Partners are committed to identifying and participating in any opportunities to contribute to technical document specifications, working groups, software, proofs of concept, and whitepapers.

Tracking tools for standardisation targets and specific standardisation actions have been made available at the project collaborative repository, so partners can keep track of these actions and coordinate related activities. Tracking is kept at the *standardisation action* level, with each action corresponding to a concrete activity focused on a particular *standardisation target* (SDO, committee...) in a particular *standardisation role*, corresponding to the categories described below. Therefore, any specific contribution associated with the project will translate into several standardisation actions, tracked as the contribution progresses within its target environment.

Specific potential roles for the partners in the different target groups have been identified, shaping the kind of intended contributions:

- **Leadership** implies having a role in leading the group activity, such as a chair position in the group, any of its subgroups, or any supporting board on policy or technology.
- **Editor** corresponds to those roles related to acting as the main author(s) or rapporteur(s) for a specific document, work item, or software module
- **Contributor** is the role of those partners actively contributing to the elements mentioned in the bullet above, whether a document, a work item, or a software module.
- **Participant** is associated to those partners taking part in the corresponding activity, regularly participating in discussions and bringing project views and concepts.

For the classification of the standardisation actions, a series of categories have also been identified, so a clear understanding of the scope and impact of each individual action can be assessed:

- **Leadership** corresponds to one of the partners being appointed to a leadership position in the target group.
- **Charter** corresponds to the active contribution and/or support to a new activity within a group, or to the creation of a new group.
- **Publication** is associated to the target group publishing the referred standard or software release, after all their formal procedures for acceptance.
- **Contribution** is considered any material proposed to become part of standardisation documents and drafts in progress, and code submissions to open-source initiatives.
- **PoC** is associated to a practical demonstration of standards, drafts in development or open-source reference implementations, through public execution of a demonstrator.
- **Presentation** corresponds to any action extending the project outreach in group meetings by introducing project concepts and results.
- **Meeting** covers the active participation in formal group meetings to incorporate project views and outcomes into standards of any nature.

3.3 STANDARDISATION ACTIONS

The tracking tool has registered more than ninety standardisation actions so far, with their main targets in the IETF and ETSI, particularly on aspects related to:

- The network operations and security areas in the IETF, on:
 - Attestation and path trustworthiness.
 - Data modelling and accountability.
 - Identity management and privacy.
 - Workload identities.
 - Applying Zero-Trust principles.

- Automation, data and the applicability of AI-based management in ETSI, on:
- The applicability of Network Digital Twins (NDT) in management lifecycles
- The use of smart contracts to improve operational aspects.
- Agent-based management.
- Data catalogues and trusted metadata, including a European harmonized standard addressing the European Data Act.
- Data quality metrics.
- Multi-domain trustworthy data exchanges.

Regarding ETSI activities in the field of data solutions, the project has contributed to the approval and definition of the new TC DATA, an ETSI Technical Group focused on data infrastructures, committed to explore the use of open and distributed data solutions in support of AI and other data-driven technologies.

Some of these actions have been highlighted as project blogposts and/or videos in the YouTube channel to maximize their dissemination impact. The corresponding links are included below:

- [Accelerating Cross-Sector Orchestration: COP-PILOT's Integration with ETSI's OpenSlice](#) (April 2025)
- [COP-PILOT Contributes to ETSI ISG CIM Plenary](#) (June 2025)
- [ETSI ZSM PoC #16](#) (Nov. 14, 2025)
- [Advancing Multi-Domain Orchestration: Compelling Demonstration at the ETSI ZSM PoC 16 Webinar](#) (December 2025)

Other dissemination actions related to standards have taken place at different events, as included below:

- ETSI SNS4SNS 2026 (Feb. 2-5, 2026, Sophia Antipolis, France)
- [Day 2 - Feb 3, 2026] Tutorial SDG OpenSlice: OpenSlice advanced and new features (Instructors: Kostis Trantzas, University of Patras – Rafael Direito, IT Aveiro – Georgios Katsikas, UBITECH) - [Link](#)
- [Day 2 - Feb 3, 2026] SDGs in Action! Session 11:30-12:00 Demo: Cross-layer automation across multi-site and multi-stakeholder environments with OpenSlice, OSM, TeraFlowSDN, Maestro and OpenZiti (Georgios Katsikas, UBITECH) - [Link](#)
- [Day 3 - Demos] DEMO 8 + POSTER (Georgios Katsikas, UBITECH) Cross-layer automation across multi-site and multi-stakeholder environments - [Link](#)
- COP-PILOT summarized the above event through a blogpost: [HypO: UBITECH's Hyper Orchestrator Joins ETSI Software Development Group \(SDG\) OpenSlice to Drive Multi-Domain Service Orchestration in COP-PILOT](#) (March 2026)
- [Transforming Multi-Domain Orchestration Through Data Awareness](#) (May 2026)

- COP-PILOT's Pan-European Marketplace presented as part of the ETSI booth 87 at EuCNC 2026, Malaga, Spain (TBA) – [EuCNC Programme](#)

4 CLUSTERING AND KNOWLEDGE TRANSFER

4.1 OVERVIEW

The Clustering and Knowledge Transfer Plan (CKTP) defines the strategy and activities through which COP-PILOT ensures that the technologies, innovations, and insights generated during the project are effectively shared with relevant external communities. The CKTP operates at two complementary levels:

- **Internal knowledge transfer:** ensuring that knowledge generated by platform development and piloting activities is accessible to all consortium partners through structured documentation, webinars, and workshops tied to the platform development cycle (detailed in section 4.4).
- **External clustering and knowledge transfer:** positioning COP-PILOT within relevant European and international innovation ecosystems through structured engagement with peer projects, industry alliances, sector events, and cross-domain forums (detailed in sections 4.5 and 4.6).

The CKTP is led by Task 7.4 (Leader: IPN), in coordination with Task 7.1 (Leader: D4P). Task 7.1 manages dissemination, communication, and direct engagement with CEI-Sphere and NexusForum as designated CSAs. Task 7.4 focuses on broader ecosystem positioning and on establishing documented liaisons with external organisations and frameworks beyond the project's immediate CEI context. The activities described in this chapter are those of Task 7.4, reflecting the project-level clustering and knowledge transfer strategy; cluster-specific dissemination and liaison activities are documented in sections 2.7–2.11

4.2 TARGET STAKEHOLDERS AND AUDIENCES

The project-level stakeholder categories for CKTP activities are:

- **Cloud, edge, and IoT service providers and users:** operators and developers of distributed computing infrastructure who can adopt or integrate COP-PILOT results.
- **Critical infrastructure operators:** organisations managing smart grids, transportation, industrial, and agricultural infrastructure — the primary user base for the project's cluster pilots.
- **Public sector and policy makers:** national and EU-level bodies that can leverage COP-PILOT results in policy, standardisation, and procurement decisions.
- **Knowledge providers and research communities:** universities, research institutes, standardisation bodies (ETSI, TMF, ISO/IEC, IEEE, NIST, ITU-T), and associations (AIOTI, ADRA, BDVA, OECD, ENISA) through which COP-PILOT results can be scientifically validated and disseminated.
- **Entrepreneurial ecosystems:** incubators, accelerators, SMEs, and start-ups representing potential adopters of the COP-PILOT platform through the two Open Calls.

4.3 KNOWLEDGE TRANSFER OBJECTIVES

The Knowledge Transfer activities pursue four overarching objectives:

- **Maximise Platform Adoption:** promote the use of the COP-PILOT platform through effective communication and accessible technical documentation.
- **Foster Cross-Sector Collaboration:** demonstrate the business and societal value of the platform by engaging stakeholders across multiple domains.
- **Ensure Sustainability:** ensure that knowledge and solutions developed during COP-PILOT continue to generate value beyond the project's lifetime through open standards, community engagement, and documented best practices.
- **Facilitate Integration:** provide clear, structured documentation and support materials so that stakeholders interested in adopting or integrating the platform can do so effectively.

4.4 PLATFORM DEVELOPMENT CYCLE AND KNOWLEDGE TRANSFER ACTIVITIES

The knowledge transfer activities will focus on showcasing the progress, challenges, and value created by *COP-PILOT*. These activities will be closely tied to the development phases of the platform. Activities such as workshops, webinars, or technical documents will be provided by the project's technical partners. The majority of *COP-PILOT*'s developments are shared through the version-controlled *COP-PILOT* Dataset Repository, accompanied by comprehensive online documentation.

4.4.1 M10 - M18: Initial Platform Release and Implementation (v.0) - Activities executed

- Internal webinars and workshops reviewing integration challenges across the five pilot clusters.
- External webinars presenting the platform's purpose and v.0 features to external stakeholders.
- Initial documentation release: reports, articles, and guidelines on platform design, interoperability strategies, requirements, and reference architecture.
- Cluster-level knowledge transfer: each cluster produced introduction videos, website content, and partner presentations. Cluster pilots demonstrated progress through sector events detailed in section 4.6.
- Technical publications: multiple papers submitted to peer-reviewed journals and conferences between M6 and M18 (see section 2.6 for full list).

4.4.2 M19- M26: Version 1 Release and Implementation (v.1) – Planned

- Internal workshops: detailed review of platform integration with pilot clusters in real environments.
- External webinars: presentation of v.1 features with feedback sessions on integration and Open Call solutions.
- Technical reports, updated documentation, and tutorials focusing on newly added technologies and Open Call integration.

- Cluster-level KT: mid-project webinars for each cluster presenting first validated results to stakeholders, industry, and Open Call participants.

4.4.3 M27- M33: Version 2 Release and Implementation (v.2)

- Internal and external workshops sharing cross-sector piloting insights, lessons learned, and final platform updates
- Final documentation package: complete user manual, integration guides, project findings, and best practices for platform deployment across all sectors.

4.4.4 M33 - M36: Final Impact Activities

- Impact webinars and workshops demonstrating how COP-PILOT has enhanced operations, resource management, and security across its cross-sector pilots.
- Final Technical Reports: comprehensive summary of project impact, challenges, and industry benefits.
- Final conference: live demonstration of COP-PILOT platform results (planned M34–M36).

4.5 CLUSTERING OBJECTIVES

The objectives of the Clustering activities are:

- **Engage with Relevant Stakeholders:** Identify and engage with stakeholders and initiatives that can foster collaboration with COP-PILOT, including European and international projects, technology organizations, and industry bodies.
- **Identify the target audience for the Open Calls:** Part of the clustering activities is the identification of the target audience for the Open Calls, therefore ensuring that external entities like midcaps, SMEs, startups, and others can participate as third parties and test their solutions using the platform, fostering collaboration and innovation while addressing market challenges.
- **Position COP-PILOT in Key Ecosystems:** Position COP-PILOT within relevant innovation ecosystems to increase collaboration opportunities and enhance the project's visibility.
- **Build Collaborative Partnerships:** Focus on creating meaningful collaborations with stakeholders, partners, and other projects, ensuring that COP-PILOT's innovations are widely tested and adopted across different sectors.

4.6 CLUSTERING ACTIVITIES (M1- M36)

4.6.1 Stakeholder Identification and Partner Selection

The process for identifying external stakeholders is structured around four mechanisms:

- Activation of partner networks: all consortium partners contribute their networks to a shared database of relevant initiatives, projects, and stakeholders.
- Systematic stakeholder mapping: priority targets include peer projects from the same EU DATA call (O-CEI Horizon), the 'AI, Data and Robotics', 'Smart Networks and Services', and 'Made in

Europe' Horizon frameworks, and initiatives such as GAIA-X, AIOTI, BDVA, and Eclipse Foundation.

- Open Calls candidate search: through startup platforms (f6s, crunchbase, dealroom), partner networks, Regional Innovation Valleys, and EIT Digital.
- Engagement planning: for each identified target, a strategical approach or joint activity is planned.

4.6.2 Clustering Activities Executed (M1–M18)

Table 4.1 documents COP-PILOT's project-level clustering activities with external Horizon Europe projects and innovation frameworks in the first 18 months. Activities within CEI-Sphere and NexusForum are detailed in Deliverable D7.5.

Timing	Event / Context	External Projects / Orgs.	Nature of Collaboration	Reference
M9	AIOTI Days 2025 — 'Data Spaces and Digital Infrastructure for the IoT Era' workshop (Madrid, 22–23 Sep 2025)	AIOTI	COP-PILOT was featured at the AIOTI Days 2025 workshop. The project coordinator introduced COP-PILOT and its five clusters to the AIOTI community, marking the project's first formal engagement with AIOTI.	COP-PILOT event page AIOTI Days 2025
M9	Projects Exchanges Dissemination Event (satellite to AIOTI Days, coord. Trialog, Madrid, Sep 2025)	O-CEI, HEDGE-IoT, TwinEU, LICORICE	COP-PILOT participated in a dedicated cross-project exchange coordinated by Trialog, fostering collaboration among Horizon Europe projects on shared open-source building blocks and stakeholder engagement strategies.	COP-PILOT event page

M11	ICAERUS 2nd Demonstration Event (Agricultural University of Athens, Nov 2025)	ICAERUS (HE agri-tech project)	AUA (Cluster 3A) participated in the ICAERUS demonstration event, presenting COP-PILOT's smart farming approach and establishing a liaison with the ICAERUS consortium on drone-based agricultural applications.	COP-PILOT event page
M11	ETSI ZSM PoC 16 Webinar (online, joint with ACROSS project, Nov 2025)	ACROSS (HE project); ETSI ZSM community	COP-PILOT partners co-presented PoC 16 with the ACROSS project to the ETSI ZSM community, jointly demonstrating automation across multi-site environments.	COP-PILOT event page
M15	BRIDGE General Assembly 2026 (Brussels, Mar 2026, observer)	BRIDGE cluster (EC energy research coordination)	COP-PILOT attended as observer, participating in Consumer and Citizen Engagement and Business Models working groups and moderating two sessions, establishing a liaison with the BRIDGE energy research community.	COP-PILOT event page
M15	EUMAT website — Open Call 1 dissemination (Mar 2026)	EUMAT (European Technology Platform for Advanced Engineering)	EUMAT published a news item promoting COP-PILOT Open Call 1, constituting the first interaction	EUMAT news

		Materials and Technologies)	between COP-PILOT and EUMAT, relevant to Cluster 1's industrial IoT use cases.	
M15	ADRA-NET community platform — Open Call 1 dissemination (Mar 2026)	ADRA / ADRA-NET (AI, Data and Robotics Association)	IPN published COP-PILOT Open Call 1 on ADRA-NET, activating IPN's ADRA membership to reach the 180+ member organisations of the AI, Data and Robotics Association ecosystem.	ADRA-NET post (only community members have access)
M15	EuBIC community platform (EBN) — Open Call 1 dissemination (Mar 2026)	EuBIC / EBN (European Business and Innovation Centre Network)	IPN published COP-PILOT Open Call 1 on the EuBIC community platform, reaching EBN-certified BICs and their networks of incubated companies, startups, and SMEs.	EuBIC post (only community members have access)
M16	Open Community for Research 2026 — Eclipse Foundation (Brussels, Apr 2026)	Eclipse Foundation; ETSI SDG OpenSlice community	UBITECH participated in the OCR 2026 special workshop on open-source strategies for European sovereign digital infrastructure, presenting COP-PILOT's open-source platform architecture and establishing synergies with Eclipse	COP-PILOT event page

			Foundation projects.	
M17	Privacy-Enhancing Technologies Webinar (online, joint CEI-Sphere / O-CEI / Fraunhofer ISST, May 2026)	O-CEI, Fraunhofer ISST	Joint webinar on privacy-enhancing technologies in CEI environments, with COP-PILOT partners contributing real-world deployment experiences.	COP-PILOT event page
M17	Urban Mobility Data Hub (UMDH) event — 'Data and Mobility: A Shared Vision for the City of Tomorrow' (Valencia, May 2026)	Urban mobility data ecosystem stakeholders	COP-PILOT participated in a workshop on interoperable urban mobility data ecosystems and AI-driven smart city services, contributing Cluster 2's smart city data approach to cross-sector urban mobility clustering.	COP-PILOT event page
M18	EuCNC & 6G Summit 2026 (Málaga, 2–5 Jun 2026)	ETSI; European 6G and edge computing research community; peer HE projects	At the ETSI booth, University of Patras (UOP), P-NET, UBI, and TATA showcased the latest evolution of the COP-PILOT platform and its growing European service marketplace. In addition, Telefonica demonstrated the platform's interoperable Cloud-Edge-IoT architecture in	COP-PILOT news

			smart cities and connected mobility, engaging with peer Horizon Europe projects and the 6G/edge research community.	
M18	Workshop on Standards for Cloud-Edge-IoT Ecosystems (Paris, 23 Jun 2026)	CEI-Sphere, O-CEI, LICORICE, INSTAR Standards, ISO/IEC JTC 1/SC 41	COP-PILOT presented in the Cloud-Edge-IoT standards session alongside peer Horizon projects and international standardisation bodies, contributing its multi-domain orchestration architecture to cross-project alignment on interoperable frameworks.	LinkedIn post
M18	Code the Continuum Hackathon (co-organised, Cagliari, 30 Jun–1 Jul 2026)	Eclipse Foundation, O-CEI	COP-PILOT co-organises this hackathon with the Eclipse Foundation and O-CEI, bringing together developers and researchers on cloud-edge-IoT challenges and providing direct access to potential Open Call 2 candidates.	COP-PILOT event page

Table 60: COP-PILOT project-level clustering activities with external projects and frameworks — M1 to M18

4.6.3 Knowledge Transfer Activities Executed (M1–M18)

Table 4.2 summarises the most significant project-level knowledge transfer activities over M1–M18. Cluster-specific activities are documented in sections 2.7–2.11.

Timing	Event	Sector / Audience	COP-PILOT Contribution	Reference
M9	IEEE IC2E 2025 — Cloud Engineering (Rennes, Sep 2025)	Cloud / edge computing research community	LTU presented ColonyOS, drawing on COP-PILOT industrial deployments including seismic monitoring and EuroHPC integration.	COP-PILOT event page
M9	Innovation Day Telefónica Digital (Valencia, Sep 2025)	Telco / IoT / AI industry professionals	Telefónica and Nespra showcased COP-PILOT's multi-domain orchestration platform and IoT capabilities to Telco, IoT, and AI professionals.	COP-PILOT event page
M11	ICTC 2025 — ICT Convergence Conference (Jeju Island, Korea, Nov 2025)	Global ICT / 6G research community	UBRAD presented a Key Value Indicator (KVI) framework for 6G, extending COP-PILOT's reach to the international 6G research community.	COP-PILOT event page
M13	IEEE CCNC 2026 (Las Vegas, Jan 2026)	IEEE networking / communications research	ONE presented the paper "Resource-and-Latency-Aware PSO — A Novel Algorithm for Intelligent and Contextual Cloud-Native Resource Scheduling and delivered a live demonstration titled "RALA-PSO: Intelligent Scheduling of Cloud-Native	COP-PILOT event page

			Applications.”, contributing to the project’s objectives on intelligent orchestration across distributed and heterogeneous infrastructures.	
M16	DATA- Introduction of ETSI SDGs to TC DATA and Presentation from SDG OpenSlice. (online, Apr 2026)	ETSI TC DATA standardisation community	UBITECH, TID, and P-NET contributed to the introduction of ETSI SDGs to the new ETSI TC DATA group, extending COP-PILOT’s KT to the ETSI data infrastructure standardisation community.	COP-PILOT event page

Table 61: COP-PILOT knowledge transfer activities through events and demonstrations — M1 to M18

4.6.4 Planned Clustering and Knowledge Transfer Activities (M19–M36)

The following table presents the planned project-level clustering and KT activities for M19–M36, focusing on IPN’s role in Task 7.4. Activities are classified as Clustering (C), Knowledge Transfer (KT), or Both (C+KT). Most of these are suggested strategic activities and partnerships, but the scope can be more dynamic, with further contributions from other project partners, not detailed in the following table.

Timing	Lead	Target Org. / Event	Planned Activity	Expected Outcome	Type
M19	TBD	6G-VERSUS. SUSTAIN-6G (HE projects)/ DIGITAL 2026 — Special Track on Digital Inclusion and Societal Participation	COP-PILOT co-organises the Special Track on Digital Inclusion and Societal Participation at DIGITAL 2026 with 6G-VERSUS and SUSTAIN-6G,	COP-PILOT results presented to the 6G and digital transformation research community; cross-project liaison with 6G-VERSUS and SUSTAIN-6G documented; ≥1	C+KT

		(DISP) (co-organised, Nice, 5–9 Jul 2026)	linking COP-PILOT with peer 6G and digital transformation projects.	joint dissemination output produced.	
M21	Netcompany-Intrasoft	AIOTI Days 2026 (Florence, 28–29 Sep 2026)	Coordinate COP-PILOT's representation at AIOTI Days 2026 via Netcompany-Intrasoft's AIOTI Full Member status, building on participation at AIOTI Days 2025.	≥1 WG session contribution; COP-PILOT presence at AIOTI Days 2026 documented.	C
M19–M36	IPN	ADRA (AI, Data and Robotics Association)	Build on IPN's ADRA membership, already activated through OC1 publication on ADRA-NET (M15), to register COP-PILOT in the ADRA project portfolio and contribute to ADRA working groups on AI at the edge and data governance.	COP-PILOT in ADRA portfolio; ≥1 WG contribution; OC2 on ADRA-NET.	C+KT
M22	TBD with IPN's support	BDVA / ADRA — EBDVF 2026 (Galway, 30 Sep–1 Oct 2026)	Represent COP-PILOT at EBDVF 2026. Present COP-PILOT's data federation and AI-at-the-edge capabilities; explore collaborations with BDVA and	≥1 liaison with BDVA/ADRA members; COP-PILOT visible in AI/Data/Robotics community.	C+KT

			ADRA members.		
M19–M36	TBD with IPN's support	EUMAT	Build on EUMAT's publication of COP-PILOT OC1 (M15) to initiate formal contact, explore synergies around industrial IoT and predictive maintenance, and contribute a case study or presentation on, e.g., Cluster 1 results.	Formal liaison with EUMAT; ≥1 KT contribution.	C+KT
M19 – M36	IPN + partners TBD	GAIA-X/IDSA	Initiate engagement with GAIA-X and IDSA on alignment between COP-PILOT's federated IoT data architecture and GAIA-X/IDSA data space standards. E.g., Co-author a position paper on sovereign data spaces for IoT across industrial verticals, using COP-PILOT's multi-cluster architecture as the reference case.	Position paper co-authored; COP-PILOT as cross-sector reference for sovereign IoT data spaces.	C+KT
M19–M36	IPN	SNS Partnership /	Leverage IPN's	COP-PILOT results visible in	C+KT

		6G-VERSUS (IPN partner of the 6G-VERSUS consortium)	partnership of 6G-VERSUS (SNS Partnership) to cross-promote COP-PILOT within the SNS ecosystem. Present COP-PILOT's edge orchestration approach at joint events (e.g. DIGITAL 2026, Jul 2026, already co-organised).	SNS community; joint events documented.	
OC2 promotion dates	IPN	6G-VERSUS Venture Accelerator (IPN partner of the 6G-VERSUS consortium)	Cross-promote COP-PILOT Open Call 2 (expected H2 2026) within the 6G-VERSUS Venture Accelerator, targeting startups and SMEs in the 6G/edge space.	≥5 accelerator participants informed of OC2; ≥1 OC2 candidate identified.	C+KT
M19–M36	IPN	EBN-EUBIC IPN certified BIC since 2010	Build on OC1 publication on EuBIC (M15) to activate IPN's EBN network for OC2 (expected H2 2026). Contact EBN-certified BICs in relevant countries; propose a COP-PILOT info session at an EBN thematic event.	OC2 via EBN/EuBIC; ≥1 EBN event used; ≥1 OC2 candidate identified; ≥ 1 info session at an EBN thematic event	C+KT
M19–M34	IPN + partners TBD	'AI, Data & Robotics' and	Identify 1–2 thematically	≥1 joint webinar; joint	C+KT

		'Made in Europe' peer HE projects	aligned HE projects for a joint webinar or workshop on cross-sector large-scale piloting — covering platform architecture, multi-domain integration challenges, and KT methodologies.	dissemination material; COP-PILOT as cross-sector piloting reference.	
M18-M36	NOVA	BRIDGE	Participation in BM WG and CCE WG meetings, contribution to annual reports	Best practices exchange	C-KT
M21	NOVA	BRIDGE	Presentation in the Consumer Engagement WG smart tools subgroup	Best practices exchange, participation in the Knowledge Hub	C+KT
M22	NOVA	BRIDGE	Presentation in the Business Models WG, BM monetization subgroup	Best practices exchange, participation in the BM WG repository	C+KT
M19 – M34	IPN	TICE.PT — IPN is a Member of TICE	Organise a COP-PILOT showcasing session within TICE.PT, leveraging IPN's Governing Board position. Present platform capabilities and OC2 to Portuguese ICT companies; identify	≥1 TICE.PT session; ≥3 Portuguese ICT companies engaged.	C+KT

			potential national adopters and OC candidates.		
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Table 62: Planned project-level clustering and KT activities — M19 to M36

5 CONCLUSION

This deliverable has been developed to establish a comprehensive and coherent framework for the COP-PILOT project's external and internal engagement, dissemination, and alignment strategies. It outlines structured approaches for maximizing project visibility, supporting knowledge transfer, fostering synergies with related initiatives, and actively contributing to ongoing standardisation efforts. Together, these strategic pillars form the foundation for ensuring that COP-PILOT's innovations reach their full potential across the entire IoT-to-edge-to-core computing continuum.

The document report then details the **Communication and Dissemination strategy**, including its phased implementation, key tactics, target audiences, and the digital and traditional tools selected to support outreach throughout the project's lifecycle, at the project and Clusters levels.

The strategy is designed to: i) ensure timely and coherent communication of project/Clusters activities; b) actively promote the project through Dissemination activities; c) align messaging across all channels and stakeholders to reinforce impact. These measures, backed by KPIs, ensure that tailored sector-specific content successfully bridges the gap between research and practical implementation.

Additionally, these deliverable details COP-PILOT's proactive contribution to international **Standardisation** bodies and open-source networks. The report documents key achievements and over ninety tracked standardisation actions across the IETF and ETSI, including direct contributions to network automation, zero-trust principles, multi-domain orchestration, and the definition of the new ETSI TC DATA group.

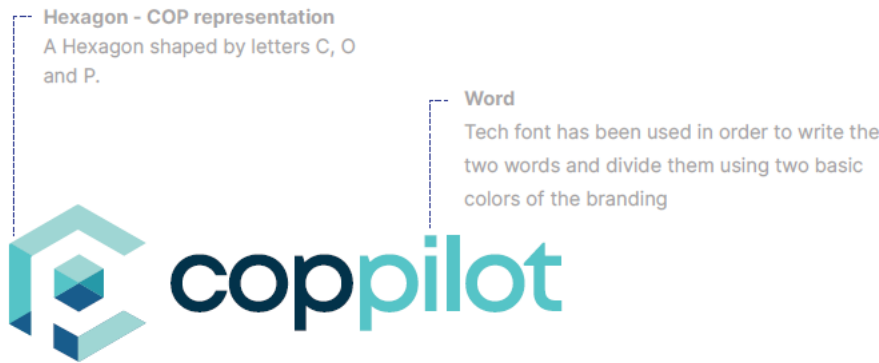
Finally, the report introduces the **Clustering and Knowledge Transfer Plan**. This framework governs strategic partnerships with external Horizon Europe projects, cross-domain forums, and the coordination of the project's Open Calls, which are designed to integrate startups, midcaps, and SMEs into the expanding COP-PILOT ecosystem.

Future Deliverable 7.2 will expand on the implementation progress, monitor achieved KPIs against the established targets, and dynamically update these outreach and exploitation strategies to reflect evolving technical milestones and collaboration opportunities.

APPENDIX A – COP-PILOT’S VISUAL IDENTITY

The Logo

The logo features a hexagon-shaped design that incorporates the letters C, O, and P as its main symbol, creatively styled and unified into a single form. It should always be used in its complete version.



The Logo

On dark backgrounds and image backgrounds, the reversed version of the logo may be used. The logo can also be used on colored backgrounds.

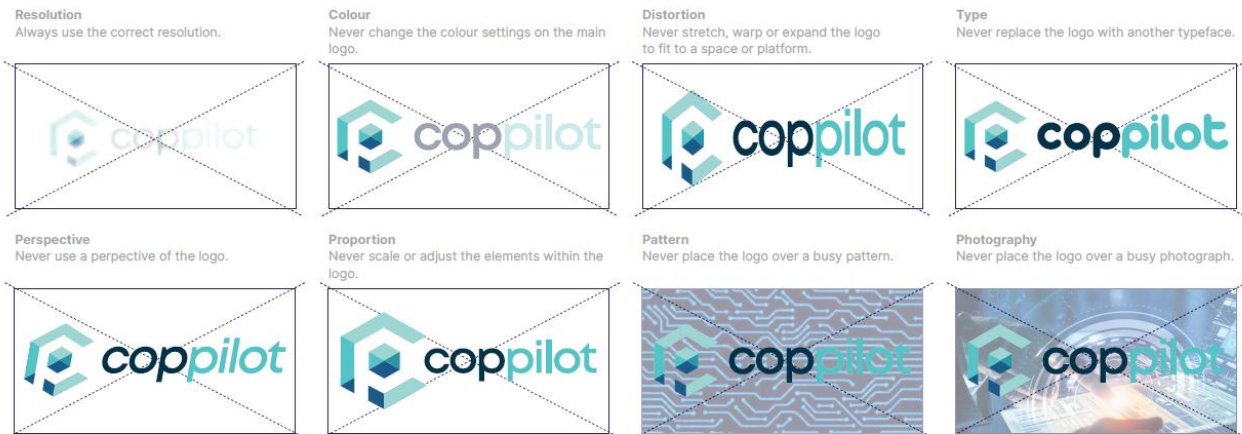


Logo colour palette

	C: 99 R: 0 #003249 M: 75 G: 50 Y: 47 B: 73 K: 44		C: 94 R: 15 #0f5b8c M: 65 G: 91 Y: 22 B: 140 K: 7		C: 76 R: 42 #2a97a5 M: 21 G: 151 Y: 31 B: 165 K: 4		C: 61 R: 84 #54c4c7 M: 0 G: 196 Y: 25 B: 199 K: 0
	C: 37 R: 159 #9fd5d3 M: 1 G: 213 Y: 18 B: 211 K: 0		C: 37 R: 167 #a7a5a5 M: 30 G: 165 Y: 31 B: 165 K: 0		C: 5 R: 238 #eef2f7 M: 2 G: 242 Y: 1 B: 247 K: 0		

The Logo misuse

There are guidelines for the use of the COP-PILOT logo, available in several formats on the website. Please do not alter these logos in any way. The most common examples of misuse involve incorrect scaling or incorrect colour selection. Here are some examples of what not to do.

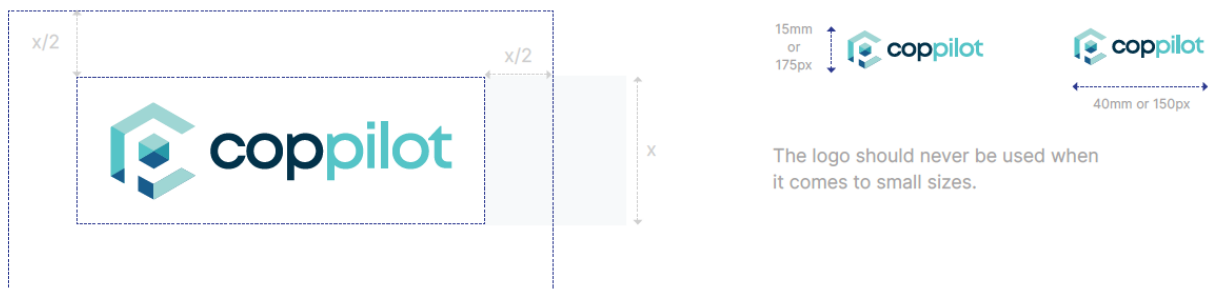


Clear space & Minimum sizing

Whenever you use the logo, it should be surrounded with clear space to ensure its visibility and impact. No graphic elements of any kind should invade this zone.

The logo is designed to retain clarity down to a minimum width of 50mm or 600px and 18mm or 175px height.

The logo should never be reproduced smaller than this.



The logo should never be used when it comes to small sizes.

How to use the Primary Typefaces

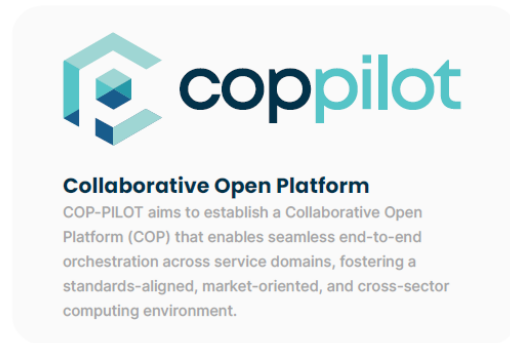
The primary typefaces for COP-PILOT are Poppins bold and Inter regular. Poppins it should be used mainly on headers, titles, sub-titles, and quotes. Inter regular should be used for text. They can be used online and on printed materials such as brochures, flyers and stickers.

Poppins Bold

AaBbCcDdEeFfGgHhIiJjKkLlMmNn
OoPpQqRrSsTtUuVvWwXxYyZz
1234567890+;%@?!&€*

Inter Regular

AaBbCcDdEeFfGgHhIiJjKkLlMmNn
OoPpQqRrSsTtUuVvWwXxYyZz
1234567890+;%@?!&€*



Example of primary typeface usage.

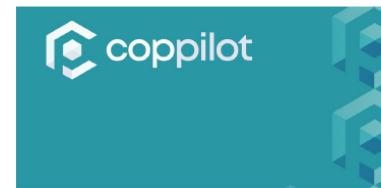
The secondary typeface for COP-PILOT is Calibri. Since it's a standard font it can and should be used only in office templates.

Calibri Regular

AaBbCcDdEeFfGgHhIiJjKkLlMmNn
OoPpQqRrSsTtUuVvWwXxYyZz
1234567890+;%@?!&€*

Calibri Bold

AaBbCcDdEeFfGgHhIiJjKkLlMmNn
OoPpQqRrSsTtUuVvWwXxYyZz
1234567890+;%@?!&€*



DX.X
YOUR DELIVERABLE TITLE GOES HERE

Sub-site here if needed Revision v.XX



DX.X: Deliverable Title

Sub-site here if needed/appropriate

Work package	WP Number
Task	Task Number
Task date	YYYY/MM/DD

Example of secondary typeface on a ppt presentation.

Main Colour Palette

COP-PILOT uses 5 colours on the logo and more colour as supplementary for the rest uses.

Main colours palette

C: 37 M: 1 Y: 18 K: 0	R: 159 G: 213 B: 211	#9fd5d3	C: 76 M: 21 Y: 31 K: 4	R: 42 G: 151 B: 165	#2a97a5
C: 94 M: 65 Y: 22 K: 7	R: 15 G: 91 B: 140	#0f5b8c	C: 99 M: 75 Y: 47 K: 44	R: 0 G: 50 B: 73	#003249
C: 61 M: 0 Y: 25 K: 0	R: 84 G: 196 B: 199	#54c4c7			

Supplementary colour

C: 37 M: 30 Y: 31 K: 0	R: 167 G: 165 B: 165	#a7a5a5
C: 5 M: 2 Y: 1 K: 0	R: 238 G: 242 B: 247	#eef2f7

EC recognition statement

Following the guidelines from EC and SERI, all the projects should use the EC and SERI recognition statement. Please see the example below and complete it with your project name and Grant Agreement number.

Positive

Co-funded by the European Union	Project funded by Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra Swiss Confederation	Federal Department of Economic Affairs, Education and Research EAER State Secretariat for Education, Research and Innovation SERI
Co-funded by the European Union (COP-PILOT, 101189819). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union. Neither the European Union nor the granting authority can be held responsible for them. This work has received funding from the Swiss State Secretariat for Education, Research and Innovation (SERI).		

Negative

Co-funded by the European Union	Project funded by Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra Swiss Confederation	Federal Department of Economic Affairs, Education and Research EAER State Secretariat for Education, Research and Innovation SERI
Co-funded by the European Union (COP-PILOT, 101189819). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union. Neither the European Union nor the granting authority can be held responsible for them. This work has received funding from the Swiss State Secretariat for Education, Research and Innovation (SERI).		