

eCHARGE
4DRIVERS

D8.3

Dissemination activities Final report

www.echarge4drivers.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 875131 (Innovation Action)

Work Package	WP8
Task	8.1
Authors	Marina Martin Vilches, POLIS network Pedro Gomes, POLIS network Sevi Christoforou, ICCS Celine Lefort, ERTICO
Dissemination Level	Public
Status	Draft
Due date	30/11/2024
Document Date	22/11/2024
Version Number	1.0

Quality Control

	Name	Organisation	Date
Editor	Marina Martin Vilches	POLIS Network	20/11/2024
Peer review 1	Werner Marinelli	ABB	25/11/2024
Peer review 2	Sothun Eric Hing	CEA	25/11/2024
Authorised by (Technical Coordinator)	Evangelos Karfopoulos	ICCS	29/11/2024
Authorised by (Quality Manager)	Michele Roccotelli	POLIBA	6/12/2024
Submitted by (Project Coordinator)	Angelos Amditis	ICCS	10/12/2024

Legal Disclaimer

eCharge4Drivers is co-funded by the European Commission, Horizon 2020 research and innovation programme under grant agreement No. 875131 (Innovation Action). The information and views set out in this deliverable are those of the author(s) and do not necessarily reflect the official opinion of the European Union. The information in this document is provided “as is”, and no guarantee or warranty is given that the information is fit for any specific purpose. Neither the European Union institutions and bodies nor any person acting on their behalf may be held responsible for the use which may be made of the information contained therein. The eCharge4Drivers Consortium members shall have no liability for damages of any kind including without limitation direct, special, indirect, or consequential damages that may result from the use of these materials subject to any liability which is mandatory due to applicable law.

Copyright © eCharge4Drivers Consortium, 2020.

Document History

Version	Date	Editor	Revisions
0.1	08/11/24	Sevi Christoforou (ICCS)	Draft of the ToC
0.2	18/11/24	Marina Martin (POLIS)	Contribution to chapters 1 and 2
0.3	19/11/24	Marina Martin (POLIS)	Contribution to chapters 1,4, 5, and 6
0.4	20/11/24	Celine Lefort (ERTICO), Sevi Christofrou (ICCS)	Contribution to chapters 3 and 4
0.5	21/11/24	Sevi Christoforou (ICCS)	Contribution to Chapter 4
1.0	22/11/24	Pedro Gomes (POLIS)	Contributions to Chapters 1, 4 and 6

TABLE OF CONTENTS

TABLE OF CONTENTS	4
LIST OF FIGURES	5
LIST OF TABLES	5
LIST OF ACRONYMS	7
EXECUTIVE SUMMARY	8
INTRODUCTION	9
About eCharge4drivers: Concept and Vision	9
Enhancing Impact through Strategic Communication and Dissemination: a report	9
Intended audience	9
Structure of the deliverable and its connection with other work packages/deliverables	10
COMMUNICATION AND DISSEMINATION STRATEGY AND OBJECTIVES: AN OVERVIEW	11
REPORT ON COMMUNICATION ACTIVITIES.....	12
Visual Materials	12
Promotional Materials	12
Videos	16
eCharge4Drivers Website.....	18
Overview & Main Sections.....	18
Analytics.....	19
Social Media	19
Twitter	19
LinkedIn.....	20
Newsletters	21
News Articles & Press releases.....	21
EVENTS, COMMUNICATION ACTIVITIES AND LIAISON	23
Participation in Conferences & Events.....	23
4.1.8 Exhibition stands and booths.....	32
Scientific Publications	33
Conference Papers.....	33
Journal Articles	35

External Interest Group (EIG) Workshops	35
Webinars	37
Synergy-Club Joint Activities	38
Final Event	40
ACHIEVEMENT OF COMMUNICATION & DISSEMINATION OBJECTIVES	42
CONCLUSION	44

LIST OF FIGURES

<i>Figure 1 : Cover and ToC of the project’s Dissemination and Communications Strategy (D8.1)</i>	11
<i>Figure 2 : eCharge4Drivers leaflet</i>	12
<i>Figure 3 : External Interest Group flyer</i>	13
<i>Figure 4 : Cover of the eCharge4Drivers Final Brochure</i>	13
<i>Figure 5 : eCharge4Drivers roll-up banner</i>	14
<i>Figure 6 : eCharge4Drivers postcard for the 2021 ITS World Congress</i>	15
<i>Figure 7 : Some of the promotional banners developed</i>	15
<i>Figure 8 : Infographic of the project solutions (technologies, services and decision tool)</i>	16
<i>Figure 9 : eCharge4Drivers animated video on the ERTICO YouTube channel</i>	17
<i>Figure 10 : eCharge4Drivers final video on the ERTICO YouTube channel</i>	17
<i>Figure 11 : Top part of the home page of the eCharge4Drivers website</i>	18
<i>Figure 12 : eCharge4Drivers X (previously Twitter) account</i>	20
<i>Figure 13 : eCharge4Drivers LinkedIn account</i>	20
<i>Figure 14 : July 2024 issue of the project newsletter</i>	21
<i>Figure 15 : Article on the demonstration site in Barcelona</i>	22
<i>Figure 16 : eCharge4Drivers panel at the ERTICO stand at the ITS World Congress 2021 in Hamburg (left), ITS European Congress 2023 in Lisbon (centre), and ITS World Congress 2024 in Dubai (right)</i>	33
<i>Figure 17 : Overview of some of the eCharge4Drivers stakeholder engagement activities</i>	36
<i>Figure 18 : eCharge4Drivers local dissemination event in differdange, Luxembourg</i>	37
<i>Figure 19 : Some of the eCharge4Drivers joint activities with the sister projects as part of the Synergy Club</i>	40
<i>Figure 20 : Overview of the eCharge4Drivers Final Event in Barcelona, November 2024</i>	41

No table of figures entries found.

LIST OF TABLES

Table 1 : List of Conferences & Events where eCharge4Drivers was presented	23
---	-----------

Table 2: List of the most relevant joint activities between eCharge4Drivers and the sister projects	39
Table 3 : eCharge4Drivers Dissemination Key Performance Indicators (KPIs).....	43

LIST OF ACRONYMS

CPO	Charging Point Operator
EIG	External Interest Group
eMSP	e-Mobility Service Provider
EVSE	Electric Vehicle Supply Equipment
EV	Electric Vehicle
KPI	Key Performance Indicator
OEM	Original Equipment Manufacturer
TEN-T	Trans-European Transport Network
V2G	Vehicle-to-Grid

EXECUTIVE SUMMARY

The **eCharge4Drivers "Dissemination Activities: Final Report" (D8.3)** offers an extensive and detailed overview of the communication and dissemination efforts undertaken throughout the project's duration. Addressing a broad spectrum of topics—including social media campaigns, webinars, printed dissemination materials, publications, and much more—this report provides a final, in-depth account of the exploitation activities carried out under Work Package 8. Additionally, it highlights how these efforts were strategically implemented to maximize outreach and engagement, ultimately playing a key role in the overall success and impact of the project.

1 INTRODUCTION

1.1 About eCharge4drivers: Concept and Vision

eCharge4Drivers is an H2020 project running from June 2020 to November 2024 and deployed by a consortium of 32 partners. Charging an electric vehicle (EV) is still not as convenient as refuelling a conventional vehicle, potentially posing a barrier to increase the market uptake of EVs. eCharge4Drivers works to substantially improve the EV charging experience within cities and for long trips. The project will develop and demonstrate user-friendly charging stations and innovative charging solutions as well as smart charging services for the users. By capturing users' perceptions and expectations on the various charging options and their mobility and parking habits, eCharge4Drivers will organise demonstrations in 10 areas across Europe, including metropolitan areas and Trans-European Transport Network (TEN-T) corridors. Charging stations in these areas will offer user-friendly and convenient functionalities for EV drivers of passenger and light vehicles and motorcycles, such as direct payment methods and bigger, user-friendly displays. Using the knowledge generated, the project will also propose an EV Charging Location Planning Tool, fostering the broad implementation of charging infrastructure in Europe.

1.2 Enhancing Impact through Strategic Communication and Dissemination: a report

This report offers an in-depth exploration of the engagement and awareness activities carried out throughout the duration of the project, with particular attention to the various events and initiatives undertaken. Its primary aim is to provide a thorough and comprehensive account of the diverse activities implemented within Work Package 8 (WP8), highlighting those efforts that proved to be the most impactful and relevant in advancing the project's objectives.

By detailing these initiatives, the report illustrates how their role as a cornerstone for enhancing the project's overall influence and visibility. It underscores the critical role this WP8 played in amplifying key outcomes and extending the reach of the project to diverse audiences. The achievements of this WP were made possible through the execution of a carefully crafted strategy that combined targeted efforts.

These activities were specifically designed to foster meaningful engagement with a wide array of stakeholders, ranging from industry leaders, policymakers, and researchers to local communities and end-users. Through a well-coordinated mix of tools and platforms, WP8 ensured that the project's achievements were effectively communicated, its innovations widely shared, and its impact maximised. This report not only documents these efforts but also serves as a testament to the importance of strategic communication and stakeholder engagement in driving the success of similar projects.

1.3 Intended audience

Deliverable D8.3 is public report. Besides the Project Partners and the European Commission, it's intended audience covers an extended range of target groups which includes, but is not limited to:

- Stakeholders and other parties interested in future exploitation activities, that wish to test and validate the results with potential customers, i.e. interested public or private organisations.
- Representatives of organisations or companies involved in ongoing or future projects on similar topics.

The aim of this report is to extend the scope of the initial Deliverable D8.1 Communication and Dissemination Strategy, which was focused on raising awareness towards project activities, positioning it as a potential reference document for other projects and individuals interested in replicating these activities.

1.4 Structure of the deliverable and its connection with other work packages/deliverables

This deliverable adopts a detailed and comprehensive structure while maintaining a clear and concise approach. It progresses logically, starting with general aspects and gradually moving into more specific details as it unfolds. As outlined in the index, it encompasses a variety of topics and activities, including visual and promotional materials, social media campaigns, scientific publications, webinars, project events, and more, all of which are thoroughly described in the subsequent chapters.

While the activities outlined in this deliverable are primarily the direct result of the work conducted within WP8 and its associated deliverables, they are also intrinsically connected to efforts undertaken in other work packages of the project. This interconnectedness stems from the fact that the dissemination activities presented here were specifically designed to support, promote, and communicate the diverse outputs and achievements of the other WPs. By serving as an amplifier, WP8 played a pivotal role in ensuring that the results and initiatives from across the project were effectively disseminated to relevant stakeholders, thereby maximising their visibility, impact, and reach.

This collaborative and integrative approach highlights that the critical role of dissemination is not only showcasing the outcomes of the eCharge4Drivers project but also ensuring their relevance and applicability to a wider audience, both during the project's lifecycle and beyond its conclusion.

2 COMMUNICATION AND DISSEMINATION STRATEGY AND OBJECTIVES: AN OVERVIEW

The primary guiding document for leading and coordinating all the activities outlined in this report was the Dissemination and Communication Strategy (D8.1). This document aimed to ensure that the activities and outcomes of the eCharge4Drivers project were widely disseminated and made transferrable, thereby achieving the objectives of WP8, which were presented in the previous chapter of this report.

It identified and described the target groups for these activities and explained the channels through which they would be engaged. The strategy also outlined the key dissemination tools developed throughout the project and highlighted significant milestones that were essential for the successful implementation of outreach activities. Furthermore, it provided guidelines to eCharge4Drivers partners, clarifying their roles and responsibilities to ensure effective communication of the project's objectives, activities, and results.

The communication and dissemination activities detailed in this report were designed to target groups directly involved with and impacted by the project results, aiming to maximise the effectiveness and reach of these efforts:

- Current EV drivers
- Future EV drivers
- Civil society representatives
- Logistics operators and fleet managers
- Local businesses
- Local and regional authorities, urban planners, and consultants
- E-mobility service providers and charging point operators
- Vehicle manufacturers (OEMs)
- Energy retailers and electric utilities
- Electricity network operators
- Policy makers
- Standardisation working groups
- Academia and research organisations

These diverse stakeholder groups were identified to ensure the project's outcomes and benefits were communicated effectively, fostering broad engagement and collaboration.

The deliverable was regularly updated internally to better align with the evolving communication needs of the project as the work progressed, right up until the project's completion.



Figure 1 : Cover and ToC of the project's Dissemination and Communications Strategy (D8.1)

3 REPORT ON COMMUNICATION ACTIVITIES

A wide range of communication materials and tools have been developed throughout the project's duration to raise awareness of eCharge4Drivers and promote the project's developments and achievements. Tools and materials developed include printed and other visual materials, the project's website and social media channels, newsletters, and news articles. These tools and materials were used depending on the communication and dissemination activity pursued, with a strong focus on the project website and the social media channels. All communication materials developed are in line with the project's brand identity to ensure consistency and clearly acknowledge the receipt of EU funding.

3.1 Visual Materials

3.1.1 Promotional Materials

3.1.1.1 Leaflets

An initial project leaflet was produced in the first year of the project to introduce eCharge4Drivers and its main objectives and provide an overview of the demonstration sites and the solutions and services developed by the project. The leaflet has been updated twice to ensure that the information it contains was up to date and relevant. The latest version of the leaflet is available on the project website in the Library page ([here](#)). The leaflet was also printed and distributed at various events attended by the project partners.



Figure 2 : eCharge4Drivers leaflet

In addition to the general leaflet, a flyer was developed to promote the External Interest Group (EIG). The flyer was used to present the objectives of the project to potential interested external stakeholders and to highlight the benefits of joining the EIG. The flyer was also distributed at various events.

External Interest Group




The eCharge4Drivers project is working to make electric vehicle (EV) charging more prevalent and user-friendly through convenient charging options.

The project established an **External Interest Group (EIG)** to evaluate and validate its concepts and results. Providing **independent expert advice**, the EIG supports the replication activities by offering insights on the potential replicability of the eCharge4Drivers solutions. Through workshops and technical visits of the project's demonstration sites, the EIG members provide valuable input to the consortium to make easy EV charging a reality.

External Interest Group



EIG members will learn about and provide feedback on the eCharge4Drivers solutions, which include:

- Battery swapping stations for light EVs
- ISO15118 Plug and Charge
- Multi-outlet, V2G-enabled charging stations
- User-friendly and modular charging stations
- Route planner
- Booking services
- Smart charging services
- Charging points location planning tool



Contact us for more information
 Pedro Gomes, POLIS - PGomes@polisnetwork.eu
 Marina Martin Vilches, POLIS - MMartin@polisnetwork.eu
 www.echarge4drivers.eu

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 873131.


Easy charging, easy driving.

Figure 3 : External Interest Group flyer

3.1.1.2 Brochure

In November 2024, a final brochure summarising the project's results was created and distributed at the final event. The brochure provides an overview of the main achievements and results from the project, providing more details on the challenges encountered, lessons learned, noteworthy outcomes, and benefits for users. An online version of the brochure is available on the project website [here](#).



Figure 4 : Cover of the eCharge4Drivers Final Brochure

3.1.1.3 Roll-Up Banner

A roll-up banner was created to increase the project's visibility at events and exhibitions and generate interest in eCharge4Drivers. The roll-up banner provides general information about the project's solutions and services. It was used in a variety of external events, as well as for project meetings.



Figure 5 : eCharge4Drivers roll-up banner

3.1.1.4 Postcard

A postcard dedicated to eCharge4Drivers was produced at the occasion of the ITS World Congress in Hamburg in October 2021. The postcard was distributed at the ERTICO stand, which included a dedicated booth for eCharge4Drivers. The postcard contains general information about the project and includes a QR code linking to the project website. It was further distributed at other events and congresses to raise awareness of the project.



Figure 6 : eCharge4Drivers postcard for the 2021 ITS World Congress

3.1.1.5 Digital Graphics

Throughout the project's duration, various banners and other images were created to support the promotion of specific project events or for other activities based on needs. For instance, promotional banners were designed for External Interest Group (EIG) workshops, the eCharge4Drivers "Powering up" webinar, and the project Final Event.



Figure 7 : Some of the promotional banners developed

3.1.1.6 Infographic

An infographic extracted from the eCharge4Drivers animated video has been used in presentations of the project at various events, on the eCharge4Drivers booth at the ITS European Congress in Lisbon in 2023 and at the ITS World Congress in Dubai in 2024, and in other contexts such as on the project website and social media, to facilitate the understanding of the project’s work. The image illustrates in a clear and engaging way the different technologies, tools, and services developed by the project.

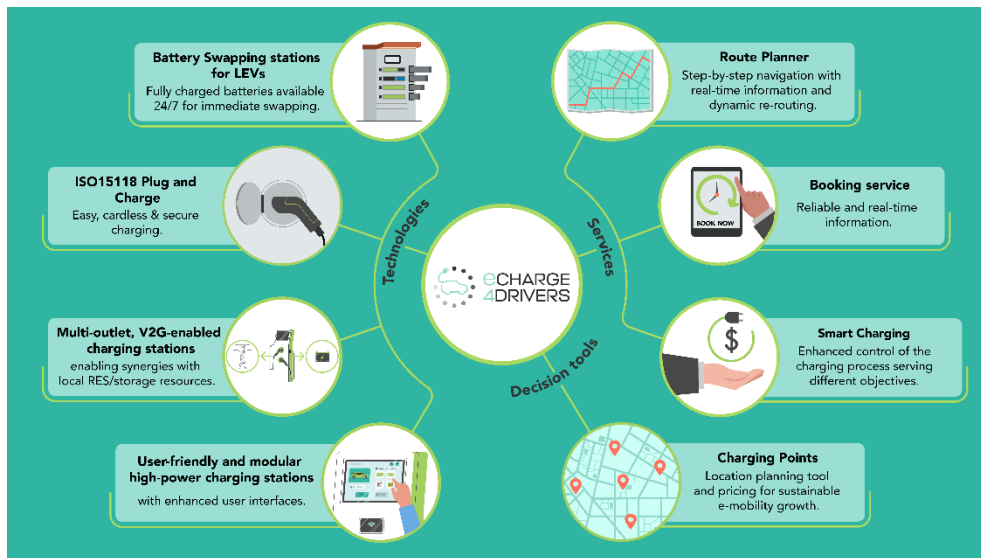
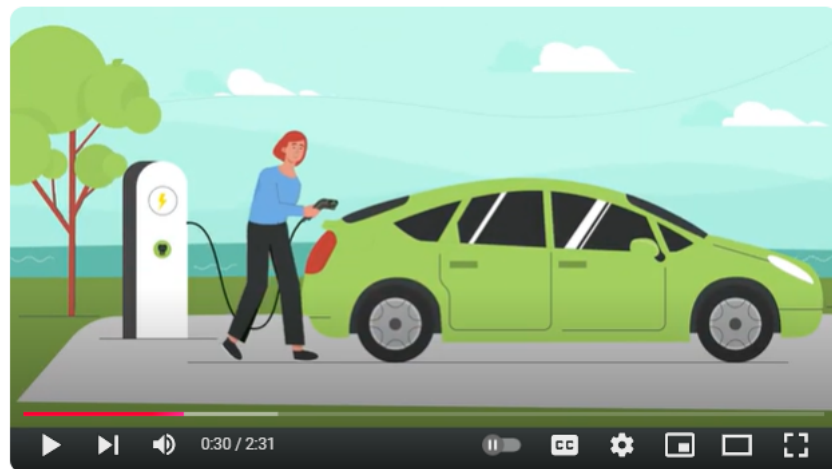


Figure 8 : Infographic of the project solutions (technologies, services and decision tool)

3.1.2 Videos

3.1.2.1 Official Animated Video

The project’s first animated video was produced in M35 to raise awareness of the project and introduce the eCharge4Drivers objectives and solutions in a clear way, taking into account the intended audience and target groups as defined in the communication strategy. The video is accessible on the [project website](#) and on the [ERTICO YouTube channel](#) (in a separate playlist dedicated to the project). The video was highlighted in a dedicated [news article](#) and on the project’s social media and was also shared with the project’s partners to amplify its outreach. The video was widely disseminated at various events to generate interest in the project.



eCharge4Drivers Video


ERTICO - ITS Europe
 384 subscribers
 

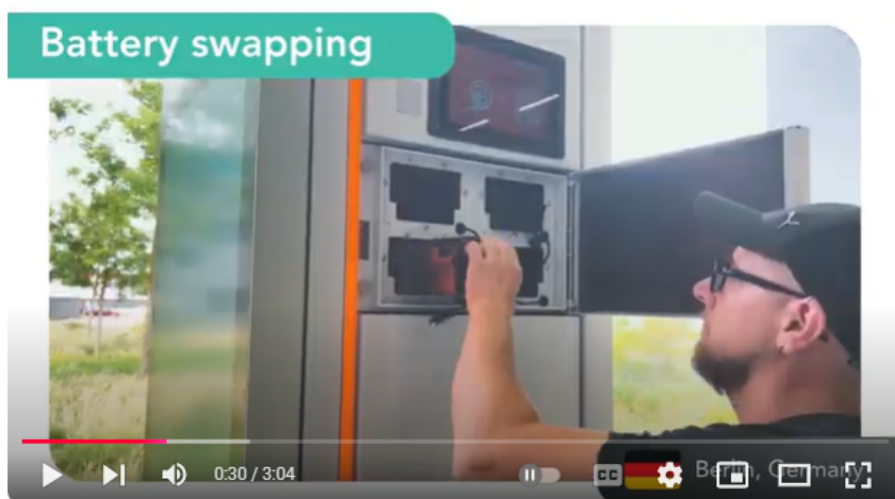




Figure 9 : eCharge4Drivers animated video on the ERTICO YouTube channel

3.1.2.2 Final Video

A final video compiling live footage from the project’s demonstration sites was created at the end of the project, presenting the project’s vision and providing an overview of the solutions and services demonstrated. The video is available on the [project website](#) and on the [ERTICO YouTube channel](#). The videos from the demonstration sites are all also separately available on the project website for more details on the solutions and services.



eCharge4Drivers final video




ERTICO - ITS Europe
 384 subscribers
 





Figure 10 : eCharge4Drivers final video on the ERTICO YouTube channel

3.2 eCharge4Drivers Website

3.2.1 Overview & Main Sections

The eCharge4Drivers website is accessible through this link: <https://echarge4drivers.eu/>. The website was launched in M3 (August 2020) and serves as the main source of information on the project. It was developed and maintained by ERTICO, who regularly created new content to keep the website active and up to date.

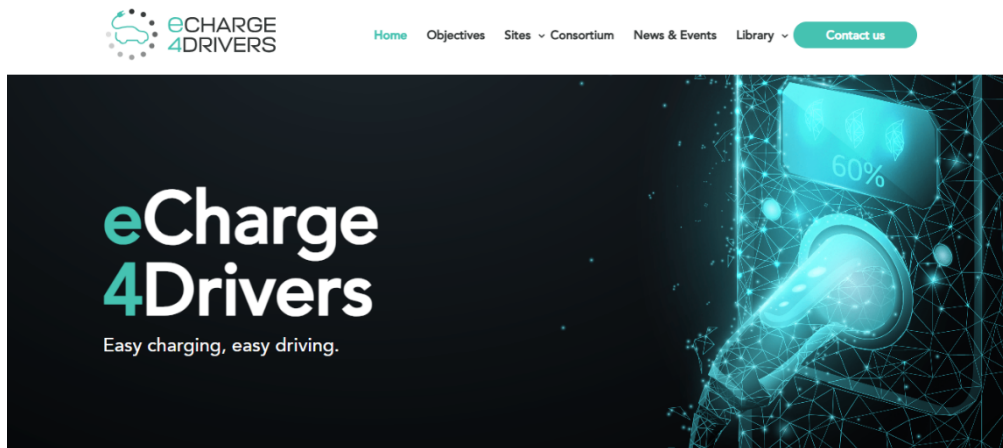


Figure 11 : Top part of the home page of the eCharge4Drivers website

The website is structured as follows:

- Home page: facts and figures, short description of the project and overview of the project's solutions, latest news article, X (Twitter) feed.
- Objectives: list of the project's main objectives.
- Sites: overview of the ten demonstration sites. Each demonstration site has its own subpage with further information on the context, local challenges, and demonstration activities, with a live footage video showcasing the solutions developed there where available. There is also a subpage within it for the questionnaires and surveys.
- Consortium: overview of the project partners, with a pop-up window for each partner providing a description of the organisation and a website link.
- News & Events: list of news and events related to the project.
- Library: repository containing a media kit, the final brochure, the project general leaflet, project videos (final and intro project videos, demo site videos, "Powering Up" webinar video, and more), project newsletters, a photo gallery, presentations, and external media articles on eCharge4Drivers. Two additional subpages provide a list of the project public deliverables and publications.
- Contact page: contact form and newsletter sign up form.

3.2.2 Analytics

The website is monitored using Google Analytics, which provides statistics on the website visits. Since its launch, the website recorded approximately 8,500 visitors, with 1,417 in Year 4 (representing an average of 129 visitors per month) which does not meet the KPI set for Year 4 of 400 visitors per month. Different factors can explain this difference, such as the website's cookie policy, which allows users to decline analytical cookies, rendering those visitors invisible on Google Analytics. In addition, in July 2023, Google operated a mandatory migration from Google Universal Analytics to Google Analytics 4. This caused issues related to the data collection that likely resulted in an underrepresentation of actual website visits, as we noticed an unexpected decrease in the number of visits Google Analytics 4 measures. By contrast, the project LinkedIn page attracted more attention and exceeded its targets, as live updates were shared more frequently on this channel, generating higher engagement.

3.3 Social Media

3.3.1 Twitter

The eCharge4Drivers project established a Twitter presence in June 2020 to support its communication objectives and raise awareness about project activities, events, and outcomes. The account, (@Charge4E), accessible at [this link](#), was designed to reflect the project's visual identity, strategically utilised influential hashtags (such as #ElectricVehicles, #ChargingExperience, #EV, #Electromobility, #Refueling, #ChargingServices, #Sustainability, #UserExperience, #UserCentric, and #EUGreenDeal) in the transport and electric vehicle sectors. It served as a platform to engage a diverse audience, including the public, EU projects, the EV community, European institutions, and stakeholders.

The account showcased the latest project news, updates from meetings, workshops, and pilots, and amplified visibility through retweets of related initiatives, partners, and events. Managed by ICCS, the account was regularly updated, with partners contributing content and promoting posts to expand outreach.

Since its launch in June 2020, the account has published 208 posts, gaining a dedicated following of **287 users**.



Figure 12 : eCharge4Drivers X (previously Twitter) account

3.3.2 LinkedIn

A LinkedIn company page for eCharge4Drivers, accessible at [this link](#), was established early in the project, reflecting the project's visual identity and serving as a key tool for disseminating information within professional networks. The project's LinkedIn page emerged as the most effective social media channel, generating higher engagement. With a total of **856 followers**, well beyond the initial KPI of 200, LinkedIn proved to be a vital tool for reaching professional networks and facilitating interactions with stakeholders in the EV and sustainable transport sectors. Managed by ICCS, the LinkedIn page was regularly updated with posts about the project's activities, scientific and industrial developments, and related events. Partners such as POLIS, ERTICO, and others contributed suggestions for content, helping maintain a professional and dynamic presence.

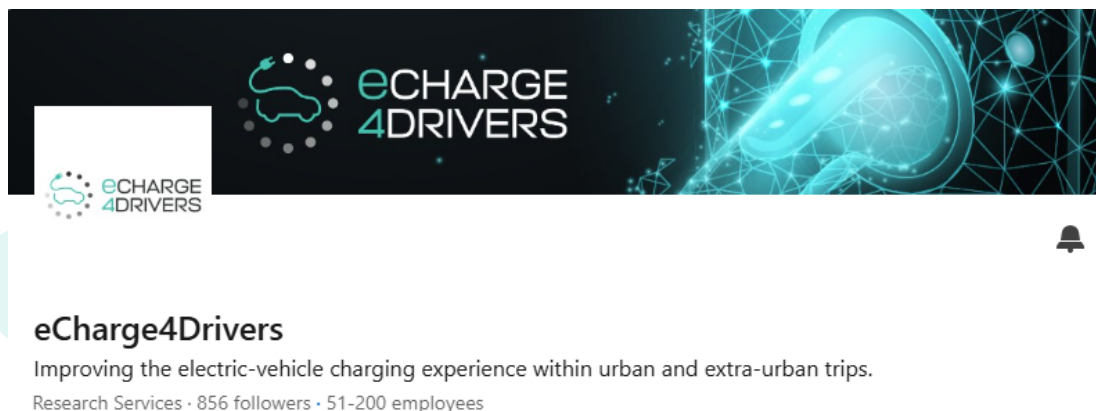


Figure 13 : eCharge4Drivers LinkedIn account

Both LinkedIn and X (previous Twitter) accounts allowed the project to gather key statistics, such as outreach, followers, and engagement metrics, enhancing its ability to track and amplify the content shared on the eCharge4Drivers website. These platforms played a crucial role in engaging with the project's consortium and stakeholders, maximising visibility and outreach.

3.4 Newsletters

Regular electronic newsletters have been sent out throughout the duration of the project to ensure a regular flow of news to interested stakeholders who signed up using the form available on the website. The newsletter provides an overview of the project's progress, participation in events, and other interesting project-related news. The newsletter also features information about the eCharge4Drivers sister projects, [USER-CHI](#) and [INCIT-EV](#), and external publications or news related to EVs in Europe, as well as the upcoming events the project will participate in.

Six newsletters have been sent out, in June 2021, December 2021, September 2022, April 2023, November 2023, and July 2024 to respectively 82, 112, 130, 142, 152, and 155 recipients. A final newsletter will be sent out at the end of the project in November 2024.

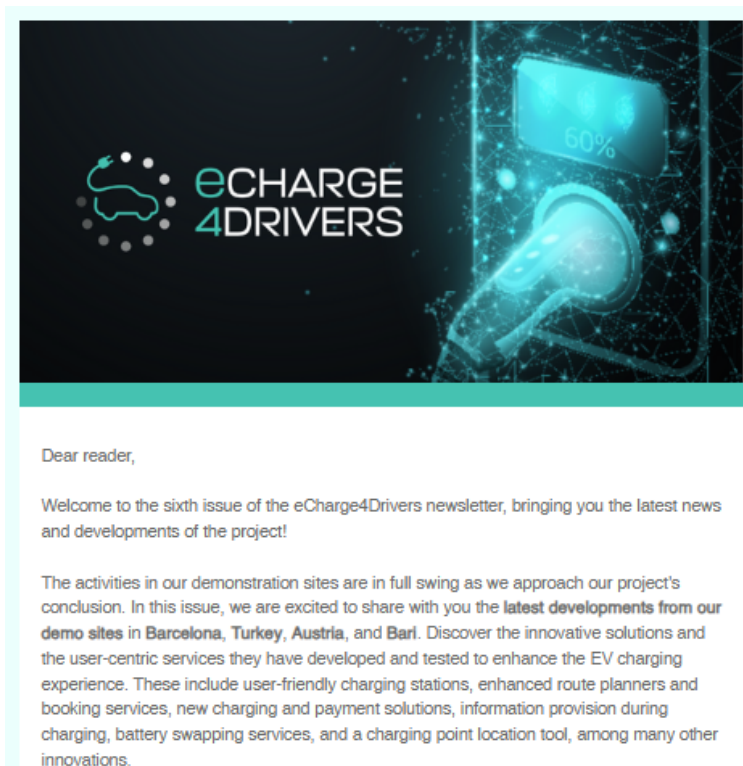


Figure 14 : July 2024 issue of the project newsletter

3.5 News Articles & Press releases

The eCharge4Drivers [website](#) was regularly updated with news articles to share interesting developments, highlight the project's participation in international events, and provide more details on the project's progress and achievements. News articles represented a perfect platform to share more detailed updates on the project. Particular attention was given to highlighting the demonstration activities and the role of the project partners involved in the demonstration sites. This series of articles included an overview of the demonstration activities in the demonstration sites in [Luxembourg](#), [Berlin](#), [Grenoble](#), [Bari](#), [Austria](#), and [Istanbul and Western Turkey](#).

Revolutionising the EV experience in Barcelona with user-centric innovations

May 30, 2024 | Latest News



The city of Barcelona is undertaking a major change in the electric vehicle market, boasting the largest public network of charging points in Spain. eCharge4Drivers partners **BSM**, **MOSAIC FACTOR** and **Silence** have developed several services to improve the user experience before, during and after charging electric vehicles. Within this pilot site, several solutions and services have been tested, including smart charging, an enhanced booking service, a battery swapping service for electric scooters, and a charging point location tool.

Figure 15 : Article on the demonstration site in Barcelona

In addition to news article, a press release was issued at the occasion of the project kick-off meeting and was translated in local languages for publication in local media. All project partners were encouraged to share the press release to increase its outreach. External news coverage of the project by international media outlets was also compiled and posted on the [project website](#) to showcase the interest the project generated.

4 EVENTS, COMMUNICATION ACTIVITIES AND LIAISON

In order to maximise its impact, the project was showcased in different ways at a myriad of events, from high-level meetings to project webinars and workshops. The following subchapter offers a detailed view at these activities, with insights into how each contributed to the project’s visibility and overall success.

4.1 Participation in Conferences & Events

The participation of eCharge4Drivers partners in opportunities to disseminate the project’s work and results included a wide range of project-related conferences, congresses, workshops, and external events held across Europe and beyond throughout the project’s lifecycle. The aim was to share the project’s progress and findings while gathering feedback from experts and relevant stakeholders.

Special emphasis was placed on participating in key events such as the annual ITS European Congresses, TRA and other high-profile conferences relevant to electric vehicle infrastructure and sustainable mobility.

Partners have participated in **48 plus 3 to come events** throughout the lifecycle of the project, with three more upcoming: participation at the Charging & Battery Summit & Expo (Athens, Greece) in December, a confirmed presentation at the RTR Conference in February 2025 and a session proposal for ITS EU in Seville in May.

Table 1 : List of Conferences & Events where eCharge4Drivers was presented

No.	Date	Conference	Activity
1	30 Sep – 02 Oct 2020	EV Charging Infrastructure and Technology Expo VIRTUAL SUMMIT	Keynote Session: “Improving the EV charging experience within cities and for longer trips: the eCharge4Drivers project” Participation in a Panel Discussion
2	20 October 2020	18th European Week of Regions and Cities	Presentation: eCharge4Drivers (H2020): focusing on the users and substantially improve the EV charging experience within cities
3	29 October 2020	Sustainable Digital Tools for All Energy Actors Workshop	Presentation: eCharge4Drivers project: Electric Vehicle Charging Infrastructure for improved User Experience
4	03 November 2020	Mobilising Mobility: Planning user-centric electromobility: the importance of user acceptance	Webinar Co-organisation
5	17 November 2020	Effie Mobility	Participation with a stand

No.	Date	Conference	Activity
6	14 – 15 December 2020	ITS Hellas Virtual Conference	Presentation: Electromobility through the prism of research efforts (in Greek)
7	04 February 2021	INCIT-EV Digital Workshop #4	Presentation: Improving the EV charging experience within cities and for longer trips: the eCharge4Drivers project
8	22 – 24 March 2021	Greek e-MOPOLI Virtual Conference	Presentation: E-mobility: The research perspective
9	18 May 2021	Plug&Charge – We turn eMobility into a smart and secure ecosystem	Webinar Organisation
10	19 May 2021	Autonomy Digital 2.0	Session Presentation: Electrifying the curb: Smart Parking & Charging
11	08 – 10 July 2021	5th Cretan Energy Conference	Presentation and Roundtable discussion on Electromobility and the Electrical Grid: Challenges and Solutions
12	06 – 10 September 2021	EPE'21 ECCE Europe (Ghent, Belgium)	Paper Presentation
13	11 – 15 October 2021	ITS World Congress 2021 (Hamburg, Germany)	Participation with a booth at the ERTICO stand Organisation of a Special Interest Session on 'User-friendly, sustainable charging technologies and services promoting e-mobility concept in urban environment'. Paper Presentation: Smart charging solutions for electric mobility
14	20 – 21 October 2021	CIVITAS Forum (Aachen, Germany)	Presentation during Session 6 on E-charging solutions
15	08 – 09 December 2021	7th ITS Hellas Conference, titled "Transportation & Logistics 4.0: Exploring Innovation"	Presentation on 'The role of research in current and future electromobility challenges' (In Greek)
16	12 January 2022	4th TWI Innovation Partner Matching and Brokerage Workshop	Presentation on Next Generation of Energy Above the Horizon
17	04 May 2022	NextGMobility Congress (e-SMART final conference in Turin, Italy)	Project Presentation together with EU funded sister projects

No.	Date	Conference	Activity
18	10 – 12 May 2022	CWIEME (Berlin, Germany)	Project Presentation
19	10 – 17 May 2022	CoDIT '22 (Istanbul, Turkey)	Paper Presentaiton: Digital Twin in Intelligent Transportation Systems: a Review
20	17 – 18 May 2022	Electromobility Tech workshop (Valencia, Spain & online)	Presentation: Improving the EV charging experience within cities and for longer trips: the eCharge4Drivers project
21	30 May – 01 June 2022	ITS EU Congress (Toulouse, France)	<p>Participation with a booth at the ERTICO stand.</p> <p>Paper Presentation: ‘Enhanced booking services for electric mobility.</p> <p>Organisation, moderation and presentation during session: “Improving EV charging infrastructure in European urban areas”</p>
22	22 June 2022	1st On (th)E-MOVE SUMMIT (Brussels, Belgium)	Presentation on ‘User Friendly DC Off-board charging stations – Smart Charging & V2G’
24	22 – 24 August 2022	CASE 2022 (Mexico City, Mexico)	Paper Presentation: Electric Vehicles Routing Including Smart-Charging Method and Energy Constraints
25	14 - 17 November 2022	TRA 2022 (Lisbon, Portugal)	<p>Paper presentation: ‘Development of Smart Charging Scheduling and Power Management Strategy of a PV-ESS based Multiuser EV Charging Station’</p> <p>Paper presentation: ‘E-driver, what about your charging infrastructure? A large-scale European study on charging habits, perceptions, concerns and expectations.’</p> <p>Session presentation : ‘User-centric and smart charging solutions for future-proof electromobility’</p> <p>Joint exhibition booth with USER-CHI & INCIT-EV</p>
26	30 November - 1	2022 Annual POLIS Conference (Brussels, Belgium)	Presentatiton during session: “Changing gears: Accelerating the uptake of electromobility”

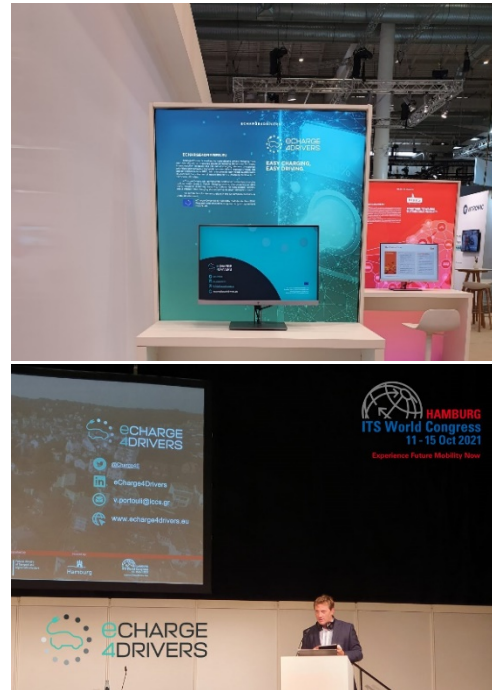
No.	Date	Conference	Activity
	December 2022		
27	14 - 16 February 2023	RTR Conference (Brussels, Belgium)	Moderation and presentation during parallel session “AGV – EV charging solutions: get the users on board”
28	22 – 23 March 2023	Autonomy Mobility World Expo (Paris, France)	Participation at the POLIS exhibition stand Presentatiton during Session: “Scaled Electromobility: What’s new? What’s next?”
29	03 – 05 May 2023	EUCAR Reception & Conference (Brussels, Belgium)	Participation with a stand
30	22 – 24 May 2023	ITS EU Congress 2023 (Lisbon, Portugal)	Session presentation: “Fast, efficient & user-friendly EV charging: making interoperability a reality” Session presentation: “Infrastructure, charging, and battery needs for novel electric micromobility” Participation with a booth at the ERTICO stand
31	19 - 20 June 2023	Meeting “The E-Volution: urban space solutions for passengers and freight” (Brussels, Belgium)	Presentation on Consumer survey on EV parking Participation in a panel discussion
32	11 – 14 June 2023	36th International Electric Vehicle Symposium and Exhibition (EVS36 – Sacramento, Ca, USA)	Paper Presentation: Real-World Implementation of Smart Charging: Challenges and Lessons Learned Paper Presentation: Incremental Profitability Evaluation of V2G-Enabled aFRR Services for Semi-Public EVSE Infrastructure: A Case Study in Belgium
33	21 - 23 June 2023	8th International Electric Vehicle Conference (EVC2023 – Edinburg, UK)	Paper Presentation: An Overview on Charging Tariff Schemes and Incentives: The eCharge4Drivers Project
34	03 – 06 July 2023	9th International Conference on Control, Decision and Information Technologies (CoDIT 2023 – Rome, Italy)	Paper Presentation: A Trip Planner Tool for Electric Vehicles in Long Distance Journeys

No.	Date	Conference	Activity
35	04 – 08 September 2023	EPE'23 ECCE Europe (Aalborg, Denmark)	Paper Presentation on Modeling and Validation of Grid-to-Vehicle (G2V) and Vehicle-to-Grid (V2G) Operation with Combo CCS Type 2 Connector for Medium Duty Electric Vehicle Applications
36	09 – 17 September 2023	87 th Thessaloniki International Fair (TIF – Thessaloniki, Greece)	Participation at the ICCS stand
37	09 September 2023	POLIS x TU/ecomotive joint event (Brussels, Belgium)	Presentation and participation in a panel discussion
38	18 – 20 September 2023	35th European Modeling & Simulation Symposium (Athens, Greece)	Paper presentation on Electric Vehicles Routing Simulation and Optimization under Smart Charging Strategies
39	26 – 27 September 2023	AEC2023 (Utrecht, the Netherlands)	Participation with a banner
40	01 – 04 October 2023	IEEE SMC 2023 (Oahu, Hawaii, USA)	Paper Presentation on K-Protection of Global Secret in Discrete Event Systems Using Supervisor Control
41	03 – 04 October 2023	SAE Electric Vehicle Charging Infrastructure Conference (Online)	Presentation on Electric Vehicle Smart Charging Demonstration
42	26 – 24 October 2023	Global Mobility Call (Madrid, Spain)	Participation with a joint stand and a short project presentation.
43	29 – 30 November 2023	2023 Annual POLIS Conference (Leuven, Belgium)	Session presentation on the Barcelona demo site
44	30 – 31 January 2023	CRF Internal Inno day	Participation with a poster and small demo presentation
45	15 – 18 April 2024	TRA 2024 (Dublin, Ireland)	Session Presentation: The Plug & Charge experience, during EC lunch time session on 'Towards zero emission vehicles: From batteries to demonstration'.
46	16 – 18 April 2024	SAE WCX World Congress Experience (Detroit, USA)	Paper Presentation on A Study of Charge Point Infrastructure Policies on EV Driver Satisfaction

No.	Date	Conference	Activity
47	28 – 30 May 2024	2 nd CIVINET Forum Greece-Cyprus (Athens, Greece)	Presentation on 'Enhancing EV user experience in eCharge4Drivers project'
48	16 – 20 September 2024	ITS World Congress 2024 (Dubai, UAE)	<p>Presentation during session: How to find, book, and pay for EV charging? – Success stories and opportunities</p> <p>Paper Presentation on 'Enhancing EV user experience in eCharge4Drivers project: the case of the metropolitan city of Bari'</p> <p>Presentation during session: Government EV charging strategies and plans – are we doing the right things?</p> <p>Participation with a booth at the ERTICO stand</p>
49	7 – 9 December 2024	Charging & Battery Summit & Expo (Athens, Greece)	Participation at the ICCS booth
50	11 – 13 February 2025	RTR Conference 2025 (Brussels, Belgium)	Presentation during session: EV charging – advanced solutions benefiting both the user and the grid
51	19 – 21 May 2025	ITS EU Congress 2025 (Seville, Spain)	Participation in a session proposal.

4.1.1 ITS World Congress 2021 – Hamburg, Germany

At the ITS World Congress in Hamburg, eCharge4Drivers showcased its work at the ERTICO stand with a dedicated lightbox and distributed postcards. eCharge4Drivers was presented by POLIBA during a session on C-ITS services, highlighting its innovative approach. Another session organized by ICCS focused on user-friendly and sustainable charging technologies, alongside INCIT-EV and USER-CHI. Discussions addressed key barriers to EV adoption: costs, charging infrastructure, and user acceptance, concluding with HUBJECT's insights on seamless and secure charging solutions.



4.1.2 ITS European Congress 2022 – Toulouse, France

At ITS European Congress, eCharge4Drivers was present at the ERTICO stand, together with several other ERTICO projects and platforms within the four main focus areas of Connected Cooperative & Automated Mobility; Clean & Eco Mobility; Transport & Logistics; and Urban Mobility. The project, represented by ICCS and VUB, also coordinated and moderated the Special Interest Session 53 on “Improving EV charging infrastructure in European urban areas”, which examined how to improve the EV charging experience for users, making it more sustainable, accessible, and affordable, as well as recent developments in the field. Two other projects on EV charging, USER-CHI and INCIT-EV, were also part of the session.



4.1.3 Transport Research Arena 2022 – Lisbon, Portugal

At TRA 2022, eCharge4Drivers participated with the Invited Session 50 on “User-centric and smart charging solutions for future-proof electromobility”, organised by ICCS and which showcased user-centric EV charging tools and solutions from different EU-funded projects, including USER-CHI, INCIT-EV and SCALE. The project was also showcased in two technical papers presented by VUB and at the joint exhibition booth managed by POLIS with USER-CHI and INCIT-EV and at the European Commission stand throughout the week of the conference.



4.1.4 Road Transport Research Conference 2023– Brussels, Belgium

At RTR Conference 2023, eCharge4Drivers project was presented in the session entitled “GV – EV charging solutions: get the users on board”, which was moderated by ICCS and CINEA. Projects USER-CHI and MEISTER participated in that session as well. The three projects shared their key research advancements and achievements towards three pillars: i) user-centric charging infrastructures, ii) interoperable and user-friendly charging services and iii) decision support tools to promote e-mobility in urban context. The project’s presentation followed the Q&A session where the current challenges of the e-mobility sector were further discussed, highlighting accessibility especially for people with impairments, acceptability of V2G services, etc.



4.1.5 ITS European Congress 2023 – Lisbon, Portugal

At ITS European Congress 2023, eCharge4Drivers was presented in the Special Interest Session (SIS) 48 “Fast, efficient & user-friendly EV charging: making interoperability a reality”, organised and moderated by ICCS. The session focused on interoperability of EV charging to boost the uptake of electric transportation options and exchanging best practices for interoperability of EV charging and recommendations for ensuring user-centric electromobility. In addition, eCharge4Drivers was also showcased during SIS 42 “Infrastructure, charging, and battery needs for novel electric micromobility”, where POLIS highlighted the battery swapping services developed for eCharge4Drivers as part of discussions on battery charging options and the issue of interoperability. The project was also represented at the ERTICO stand with a dedicated booth.



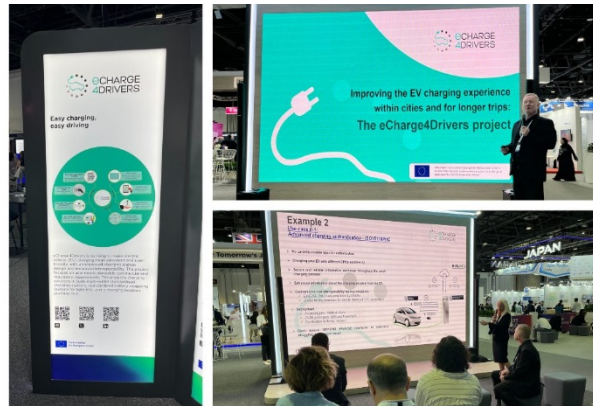
4.1.6 ITS World Congress 2023 – Suzhou, China

During ITS World Congress 2023, eCharge4Drivers was represented in two Special Interest Sessions (SIS), which highlighted the key role of electromobility in greening transport. In SIS01 on ‘Navigating the Future: The Role of Electromobility and EV Charging Infrastructure’, ERTICO provided an overview of the various solutions developed by eCharge4Drivers to make charging an electric vehicle easier and more convenient for the users, helping public acceptance and the adoption of electromobility in Europe to address the growing issue of climate change. During SIS13 on ‘Novel Electric Micromobility and Mobility as a Service’, special attention was given to the eCharge4Drivers user-friendly battery swapping services for light electric vehicles, which are demonstrated in the project demonstration sites in Berlin and Barcelona. ICCS shared insights into the specificities of these solutions, which are a crucial addition to the broader discussion on electric vehicle charging as they address the unique requirements for smaller electric vehicles.



4.1.7 ITS World Congress 2023 – Dubai, UAE

During ITS World Congress 2024, eCharge4Drivers was presented at the ERTICO stand. ERTICO and ICCS introduced eCharge4Drivers and provided an overview of the project main objectives and solutions. eCharge4Drivers was also showcased in a paper presentation during TP 10 “Infrastructure for clean mobility” by POLIBA, focused on “Enhancing EV user experience in eCharge4Drivers project: the case of the metropolitan city of Bari”. During SIS 53 “How to Find, Book, and Pay for EV Charging? – Success Stories and Opportunities,” organised by ERTICO and moderated by ICCS the project coordinator presented the user-centric and interoperable aspect of the eCharge4Drivers solutions. Finally, ERTICO took part in SIS 94 “Government EV charging strategies and plans – are we doing the right things?”, presenting the first outcomes from the interviews conducted in various European cities regarding local EV regulations,



4.1.2 4.1.8 Exhibition stands and booths

Throughout its duration, the eCharge4Drivers project was prominently showcased at various stands and booths during key events, utilising the communication and dissemination materials developed. This offered an invaluable platform to share the project’s outcomes — such as its EIG and innovations — with a wider audience. Some of the most notable events where the project was presented, either at its own booths or those of its partners, are listed below:

- October 2021 - ITS World Congress, Hamburg (Germany).
- June 2022 - ITS European Congress, Toulouse (France).
- November 2022 - Annual POLIS Conference, Brussels (Belgium)
- May 2023 - ITS European Congress, Lisbon (Portugal)
- September 2023 - AEC2023, Utrecht (Netherlands)
- November 2023 – Annual POLIS Conference, Leuven (Belgium)
- April 2024 - Connecting Europe Days, Brussels (Belgium)
- September 2024 – ITS World Congress, Dubai (United Arab Emirates)
- November 2024 – Annual POLIS Conference, Karlsruhe (Germany)

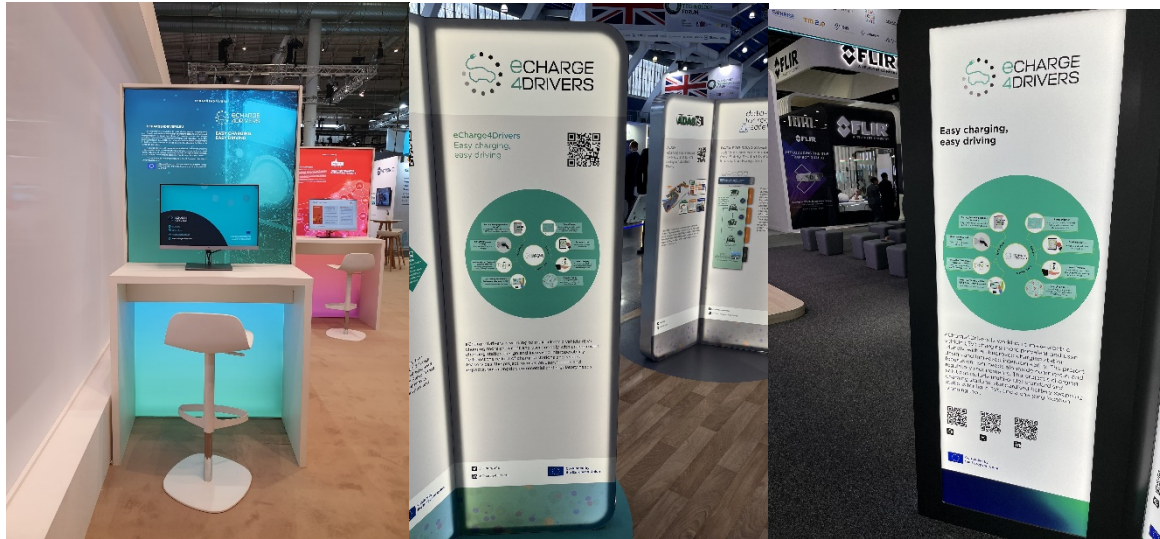


Figure 16 : eCharge4Drivers panel at the ERTICO stand at the ITS World Congress 2021 in Hamburg (left), ITS European Congress 2023 in Lisbon (centre), and ITS World Congress 2024 in Dubai (right)

Moreover, the project was also featured in joint Synergy-Club stands at highly significant events. These will be further detailed in subchapter 4.6 of this report.

4.2 Scientific Publications

The eCharge4Drivers project exceeded its publication KPI of 9 by a significant margin, achieving a total of **29 publications** over the course of the 4-year project. These publications included **11 peer-reviewed scientific journal articles** and **18 conference papers**, reflecting the project's substantial contribution to the academic discourse. The WP8 team meticulously tracked all publications to ensure that they appropriately acknowledged the project and the funding authority and were made openly accessible. To facilitate the sharing of these materials, a [Zenodo community](#) was established in 2022, providing a central repository for all project-related content, including preprints and published papers. All publications were also made available on the project's [Library page](#), ensuring broad accessibility and promoting transparency throughout the project's lifecycle.

4.2.1 Conference Papers

2021

1. S. Jaman, S. Chakraborty, M. E. Baghdadi, T. Geury and O. Hegazy, *Small-Signal Average Switch Modeling and Dual-Loop Control of Bidirectional Integrated Converter for G2V and V2G Applications in Battery EVs*, 2021 23rd European Conference on Power Electronics and Applications (EPE'21 ECCE Europe), pp. 1-12, Ghent, Belgium, 2021.
2. Rinaldi, A., Fanti M.P., Roccotelli, M., Karfopoulos E., Amditis, A., Portouli, V., *Smart Charging Solutions for Electric Mobility*, 27th ITS World Congress, Hamburg, Germany, 11-15 October 2021.

2022

3. W. A. Ali, M. Roccotelli, and M. P. Fanti, *Digital Twin in Intelligent Transportation Systems: A Review*, 8th International Conference on Control, Decision and Information Technologies (CoDIT), Istanbul, Turkey.
4. Fanti, M.P., Roccotelli, M., Rinaldi, A., Pagano, D., Buqi, R., Persi, S., Anglès, M., Karfopoulos, E., Amditis, A., *Enhanced Booking Services for Electrical Mobility*, 14th ITS European Congress, Toulouse, France.
5. Jaman, S., Verbrugge, B., Zhaksylyk, A., Geury, T., El Baghdadi, M., & Hegazy, O., *Development of Smart Charging Scheduling and Power Management Strategy of a PV-ESS Based Multiuser EV Charging Station*, Transport Research Arena TRA 2022 Conference, Lisbon.
6. Vanhaverbeke, L., De Clerck, Q., Karfopoulos, E., Portouli, E., Amditis, A., *E-driver, What About Your Charging Infrastructure? A Large-Scale European Study on Charging Habits, Perceptions, Concerns, and Expectations*, Transport Research Arena TRA 2022 Conference, Lisbon.
7. M. A. del Cacho Estil-les, M. Pia Fanti, A. M. Mangini, and M. Roccotelli, *Electric Vehicles Routing Including Smart-Charging Method and Energy Constraints*, IEEE 18th International Conference on Automation Science and Engineering (CASE), Mexico City.

2023

8. Van Krieking, G., De Cauwer, C., Callebaut, L., Coosemans, T., & Messagie, M., *Real-World Implementation of Smart Charging: Challenges and Lessons Learned*, 36th International Electric Vehicle Symposium and Exhibition (EVS36), Sacramento, United States.
9. Goncearuc, A., Sapountzoglou, N., De Cauwer, C., Coosemans, T., Messagie, M., Crispeels, T., *Incremental Profitability Evaluation of V2G-Enabled aFRR Services for Semi-Public EVSE Infrastructure: A Case Study in Belgium*, 36th International Electric Vehicle Symposium and Exhibition (EVS36), Sacramento, United States.
10. Evangelos Karfopoulos, E., Roca, J., Mata, J., Lopez, A., Portouli, E., Amditis, A., *An Overview on Charging Tariff Schemes and Incentives: The eCharge4Drivers Project*, 8th International Electric Vehicle Conference, Edinburgh.
11. Michele Roccotelli, Maria Pia Fanti, Agostino Marcello Mangini. *A Trip Planner Tool for Electric Vehicles in Long Distance Journeys*, 9th International Conference on Control, Decision and Information Technologies (CoDIT), Rome, Italy.
12. Wasim A. Ali, María A. del Cacho Estil-les, Agostino M. Mangini, Michele Roccotelli, Maria Pia Fanti, *Electric Vehicles Routing Simulation and Optimization under Smart Charging Strategies*, 35th European Modeling & Simulation Symposium, Athens, Greece.
13. S. Jaman, O.H. Garcia, M. A-Monem, T. Geury, and O. Hegazy, *Modeling and Validation of Grid-to-Vehicle (G2V) and Vehicle-to-Grid (V2G) Operation with Combo CCS Type 2 Connector for Medium Duty Electric Vehicle Applications*, 25th European Conference on Power Electronics and Applications (EPE'23 ECCE Europe), Aalborg, Denmark.
14. Liu, R., Duan, W., A. M. Mangini, and M. P. Fanti, *K-Protection of Global Secret in Discrete Event Systems Using Supervisor Control*, IEEE International Conference on Systems, Man, and Cybernetics (SMC), Honolulu, Oahu, HI, USA.

2024

15. Michele Roccotelli, Daniele Pagano, Gaetano Volpe, & Maria Pia Fanti, *Enhancing EV User Experience in eCharge4Drivers Project: The Case of the Metropolitan City of Bari*, 30th ITS World Congress (ITSWC), Dubai, UAE.
16. Nicodemo N., Di Rienzo R., Cesare Sandri, Roncella R., Saletti R., Federico Baronti, *Aging-Aware Electric Vehicle Simulation Platform for Battery Charging Strategy Optimization*, ELECTRIMACS 2024, Castelló, Spain.
17. Sandri C., Di Rienzo R., Nicodemo N., Baronti F., Roncella R., Saletti R., *Electrical Circuit Model for Sodium-Ion Batteries*, 2024 IECON – 50th Annual Conference of the IEEE Industrial Electronics Society, Chicago, USA.
18. Fussey, P. et al., *A Study of Charge Point Infrastructure Policies on EV Driver Satisfaction*, SAE-WCX 2024, Detroit, USA.

4.2.2 Journal Articles

2022

1. Jaman S, Verbrugge B, Garcia OH, Abdel-Monem M, Oliver B, Geury T, Hegazy O., *Development and Validation of V2G Technology for Electric Vehicle Chargers Using Combo CCS Type 2 Connector Standards*, *Energies*, 2022; 15(19):7364.
2. Jaman, S, Chakraborty, S, Tran, D-D, Geury, T, El Baghdadi, M & Hegazy, O., *Review on Integrated On-Board Charger-Traction Systems: V2G Topologies, Control Approaches, Standards and Power Density State-of-the-Art for Electric Vehicle*, *Energies*, 2022; vol. 15, no. 15, 5376.
3. Leonardo Barzacchi, Marco Lagnoni, Roberto Di Rienzo, Antonio Bertei, Federico Baronti, *Enabling early detection of lithium-ion battery degradation by linking electrochemical properties to equivalent circuit model parameters*, *Journal of Energy Storage*, Volume 50, 2022, 104213, ISSN 2352-152X.

2023

4. Schettini T, dell'Amico M, Fumero F, Jabali O, Malucelli F., *Locating and Sizing Electric Vehicle Chargers Considering Multiple Technologies*, *Energies*, 2023; 16(10):4186.
5. Cubillos, M., Dell'Amico, M., Jabali, O., Malucelli, F., Tresoldi, E., *An Enhanced Path Planner for Electric Vehicles Considering User-Defined Time Windows and Preferences*, *Energies*, 2023, 16, 4173.
6. Roca, J., Lopez, A., Karfopoulos, E., Amditis, A., *An Overview on Charging Tariff Schemes and Incentives: The eCharge4Drivers Project*, *Transportation Research Procedia*, Volume 70, pages 314 – 321, ISSN 2352-1465, 2023.
7. Di Rienzo R, Nicodemo N, Roncella R, Saletti R, Vennettilli N, Asaro S, Tola R, Baronti F., *Cloud-Based Optimization of a Battery Model Parameter Identification Algorithm for Battery State-of-Health Estimation in Electric Vehicles*, *MDPI Batteries*, 2023; 9(10):486.
8. Jaman, S., M. Abdel-Monem, T. Geury, and O. Hegazy, *Development and Validation of an Integrated EV Charging Station With Grid Interfacing Inverter for Residential Application*, *IEEE Access*, vol. 11, pp. 115751-115774, 2023.

2024

9. Guillemin, S.; Choulet, R.; Guyot, G.; Hing, S., *Electrical Vehicle Smart Charging Using the Open Charge Point Interface (OCPI) Protocol*, *Energies*, 2024, 17, 2873.
10. Andrei Goncearuc, Cedric De Cauwer, Nikolaos Sapountzoglou, Gilles Van Kriekinghe, Dominik Huber, Maarten Message, Thierry Coosemans, *The Barriers to Widespread Adoption of Vehicle-to-Grid: A Comprehensive Review*, *Energy Reports*, Volume 12, 2024.
11. Niccolò Nicodemo, Roberto Di Rienzo, Marco Lagnoni, Antonio Bertei, Federico Baronti, *Estimation of Lithium-Ion Battery Electrochemical Properties from Equivalent Circuit Model Parameters Using Machine Learning*, *Journal of Energy Storage*, Volume 99, Part A, 2024.
 - May 2023 – EUCAR Reception and exhibition, Brussels (Belgium)

4.3 External Interest Group (EIG) Workshops

The External Interest Group (EIG) Workshops provided unique and highly relevant opportunities to disseminate the eCharge4Drivers project and facilitate the exchange of knowledge on associated topics, thereby maximising the impact of the project and its outputs. Additionally, these workshops served as an opportunity to gather valuable feedback and validation from EIG members, as well as to present the project's innovations and use cases to an external audience.

The workshops were organised under the umbrella of the project's External Interest Group, which was established in month 9 (M9). The group, comprising relevant stakeholders, was recruited through

external dissemination and communication activities, including the project website. The members were then divided into two groups, both of which attended the EIG workshops:

- **User Reference Group (URG):** This group, consisting of experts, was focused on gathering user needs and requirements, defining use cases, and identifying external EV charging options and relevant developments. By the end of the project, the group had 12 members.
- **Observer Group:** This group included followers with a strong interest in adopting the project's findings. Members were responsible for interacting with other vehicle manufacturers, Charging Point Operators (CPOs), e-Mobility Service Providers (eMSPs), and local authorities. By the end of the project, this group had 14 members.

During the lifetime of the project, the difference between the two groups was not as important and both were usually referred to as EIG. Upon the establishment of the EIG, the intention was to differentiate based on the topical and geographical focus of experts and projects. However, at the start of the EIG activities during 2022, it was decided to invite all of the EIG members to each event, regardless of their status group.

Most of the stakeholder engagement activities were held in the second half of the project due to the impact of Covid-19. Below is the full list of workshops conducted:

- **Kickoff meeting** – focusing on showcasing the project objectives and initial findings, as well as explaining to the EIG members what were the expectations of their involvement in eC4D (online, 26 May 2021)
- **EIG Workshop in Vienna** – Project update and catch-up, including a presentation of the EIG services and innovations as part of demo activities (14 December 2022, following the Project Meeting)
- **EIG Workshop/Site Visit in Berlin** – Focus on battery swapping solutions: B2B and B2C (28 February 2023)
- **EIG Workshop/Site Visit in Barcelona** – Showcasing locally implemented eCharge4Drivers innovative charging technologies and services (29 June 2023, following the Project Meeting)
- **EIG Workshop in Brussels** – Focus on ISO 15118 Plug & Charge (6 December 2023)
- **EIG Workshop/Validation Workshop during the eCharge4Drivers Final Event** – Showcasing the project's achievements and challenges in deploying innovations across different pilot sites (7 November 2024)



Figure 17 : Overview of some of the eCharge4Drivers stakeholder engagement activities

These workshops played a vital role in engaging external stakeholders, gaining feedback on the project’s outputs, and ensuring the transferability of the results. To maximise attendance, they were widely promoted through the online channels of the project and WP8 partners. This promotion followed the guidelines set out in the Dissemination Strategy and leveraged various online promotional materials that had been produced.

There were also locally organised events and opportunities, such as the *Journée de la Mobilité at Luxembourg* in June 2024, co-hosted by POLIS network, LIST, SYVICOL, and Ville de Differdange. eCharge4Drivers solutions in the Luxembourg demonstration site were presented by NEXXTLAB to an audience of Luxemburg Municipalities in an electromobility workshop.



Figure 18 : eCharge4Drivers local dissemination event in differdange, Luxembourg

4.4 Webinars

The project hosted a total of three engaging webinars throughout its duration:

- November 2020 - “*Mobilising Mobility - Planning user-centric electromobility: the importance of user acceptance*”. Joint webinar with the sister project USER-CHI, to be further discussed in the next subchapter of this report.

Planning user-centric electromobility: the importance of user acceptance

featuring  

3 NOVEMBER 2020 - 14:00-15:00 CEST

**Mobilising
Mobility**



- October 2023 - “*Charging Ahead: Consumer Preferences, Incentives and Motivations in Smart and V2X Charging*”. A joint webinar held with fellow Synergy-Club member SCALE, to be further discussed in the next subchapter of this report.



- October 2024 - *“Powering Up: New Charging Technologies & Accessibility”*. The final webinar centred on services designed to improve accessibility, including lamp post charging, advanced route planners and booking services, and battery-swapping solutions, this highlighting the innovations developed during the project. It also addressed policy and regulations, featuring insights from the European Commission’s Sustainable Transport Forum and its Guidelines on Accessible EV Charging Infrastructure.



4.5 Synergy-Club Joint Activities

To enhance knowledge exchange, share experiences, and amplify the impact of project outcomes, eCharge4Drivers collaborated with similar EU-funded initiatives throughout its four-year duration. A "Synergy Club" was established in 2020 with sister projects INCIT-EV and USER-CHI to share updates, coordinate and organise joint dissemination activities. In addition to INCIT-EV and USER-CHI, other projects such as MEISTER, e-SMART, EV4EU, and SCALE also participated in the Synergy Club. Meetings were held every six months, hosted on a rotating basis by each project. A total of six meetings took place, with the final one hosted by eCharge4Drivers in December 2023.

The discussions focused on common themes, including:

- User charging needs and preferences

- Interoperability
- E-mobility tariff schemes
- Barriers to e-mobility uptake
- Recommendations and guidelines for:
 - Charge Point Operators (CPOs) to adopt advanced technologies and tools for sustainable charging network development
 - e-Mobility Service Providers (eMSPs) to offer competitive services and tariffs
 - Local authorities to support EV adoption while addressing city-specific challenges

Moreover, eCharge4Drivers collaborated with initiatives like ELVITEN, ASSURED, SOLUTIONPlus, GreenCharge, CIVITAS Park4SUMP, and UNCHAIN through various opportunities.

The joint dissemination activities with the Synergy Club projects and other EU initiatives included participation in events, workshops, webinars, final conferences, and the creation of a Synergy Club brochure. Below is a list of the 14 joint activities conducted at conferences and events online and across Europe.

Table 2: List of the most relevant joint activities between eCharge4Drivers and the sister projects

No	Date	Name of Activity	Project Involved
1.	20 October 2020	Joint session: 18th European Week of Regions and Cities	ASSURED, SOLUTIONPlus
2	29 October 2020	Workshop presentation: Sustainable Digital Tools for All Energy Actors	MEISTER (host), GreenCharge, USER-CHI
3	04 February 2021	Workshop presentation : INCIT-EV Virtual Internal Workshop #4	INCIT-EV (host), USER-CHI, MEISTER
4	11 – 15 October 2021	Joint session : ITS World Congress - Hamburg, Germany	INCIT-EV, USER-CHI
5	20 -21 October 2021	Joint Session : CIVITAS Forum – Aachen, Germany	USER-CHI, RUGGEDISED, e-SMART, MEISTER
6	30 May – 1 June 2022	Joint Session : ITS EU Congress – Toulouse, France	USER-CHI, INCIT-EV
7	06 July 2022	Workshop presentation : Park4SUMP high-level Workshop	CIVITAS Park4SUMP, USER-CHI
8	14 – 17 November 2022	Joint Session : TRA2022 – Lisbon, Portugal	USER-CHI, INCIT-EV, SCALE
9	14 – 17 November 2022	Joint Exhibition Stand : TRA2022 – Lisbon, Portugal	USER-CHI, INCIT-EV
10	30 November – 1 December 2022	Joint Session : 2022 Annual POLIS Conference – Brussels, Belgium	USER-CHI, INCIT-EV, MRA-E
11	14 February 2023	Joint Session : RTR Conference 2023 – Brussels, Belgium	MEISTER, USER-CHI
12	22- 24 May 2023	Joint Session : ITS EU Congress – Lisbon, Portugal	USER-CHI, INCIT-EV
13	15 September 2023	Panel Discussion : POLIS x TU/ecomotive event	SCALE
14	24 – 26 October 2023	Joint exhibition stand : Global Mobility Call – Madrid, Spain	USER-CHI, UNCHAIN

Moreover, as mentioned in the previous subchapter of this deliverable, the project organised two different webinars as part of the Synergy-Club joint dissemination activities:

- November 2020 - “*Mobilising Mobility - Planning user-centric electromobility: the importance of user acceptance*”. Joint webinar with USER-CHI focused on ways to further enhance user experience. The projects presented and compared their findings to explore user needs and strategies for addressing them effectively.

- October 2023 - “Charging Ahead: Consumer Preferences, Incentives and Motivations in Smart and V2X Charging”. A joint webinar held with the SCALE project as part of SCALE’s Summer Session. This special session focused on consumer preferences, incentives, and motivations in Smart and V2X Charging. Both projects shared knowledge and insights from their respective work, addressing key aspects to promote EV adoption, including the needs, concerns, and expectations of EV users.

As part of the collaborative efforts and synergies among these initiatives, eCharge4Drivers actively participated in the final conferences of both the USER-CHI and INCIT-EV projects in June 2024. These events provided valuable opportunities to share insights, results, and innovations achieved throughout the projects. Additionally, the USER-CHI and INCIT-EV projects were prominently featured during eCharge4Drivers’ final event.

Finally, the project, together with other H2020 projects, has contributed to the development of the CIVITAS 2021 Topic Guide - Planning for More Resilient and Robust Urban Mobility, available [here](#) and a joint digital leaflet presenting the different sister projects was developed and published online in the respective project’s social media channels in 2023, available [here](#).



Figure 19 : Some of the eCharge4Drivers joint activities with the sister projects as part of the Synergy Club

4.6 Final Event

eCharge4Drivers hosted its Final Event on 7 November 2024 in Barcelona, Spain. This event represented a significant collaborative effort among all partners at the dissemination level, marking the culmination of four years of steady progress and dedication. Organised by the POLIS Network with active support from the WP8 partners and hosted by Barcelona City Council, the event took place during a strategically chosen week in the Catalan capital. It followed the 2024 editions of the Tomorrow.Mobility World Congress and the SmartCity Expo World Congress, offering attendees a convenient opportunity to participate in this key milestone.

The Final Event was organised as an interactive event, which included presentations from the project partners of selected solutions and their benefits for users and ample time for interaction with the attendees to answer more specific questions and explore future steps to continue shaping the future of EV charging. The event also featured an insightful roundtable discussion with invited experts from the INCIT-EV, USER-CHI, and TIPS4PED projects who discussed policy actions needed to support the EV charging landscape. All discussions reflected the project's emphasis on the user experience, as the projects solutions were developed keeping in mind EV drivers needs to make the charging experience more convenient and intuitive.



Figure 20 : Overview of the eCharge4Drivers Final Event in Barcelona, November 2024

The Final Event provided a unique opportunity to conclude and reflect on the efforts and outputs achieved throughout the project. It showcased newly designed, tailored dissemination materials, promotions via the project and partner websites, newsletters, social media, and more. The event encapsulated the project's WP8 core mission: effectively disseminating its outputs to enhance EV charging and improve the user experience. Ultimately, the event served as a celebration of the project's success and a fitting conclusion to its journey.

5 ACHIEVEMENT OF COMMUNICATION & DISSEMINATION OBJECTIVES

This deliverable focused on detailing the different activities undertaken to achieve the overall communication and dissemination objectives of the project which, as detailed in this report, were successfully achieved on schedule, underscoring the work package's effectiveness in meeting its goals.

The objectives were as follows:

- Maximise outreach to communicate the activities, benefits, and outcomes of eCharge4Drivers to a diverse group of stakeholders.
- Develop a strategy for communication, awareness, and dissemination, including a suite of communication materials and tools.
- Establish the necessary channels to support ongoing communication for eCharge4Drivers.
- Organise the eCharge4Drivers events.
- Set up External Interest Groups to enhance understanding of user needs and facilitate the dissemination and transferability of eCharge4Drivers products, methods, recommendations, and guidelines.
- Coordinate scientific outreach through the publication of open-access papers and participation in external events.
- Liaise with relevant national and international projects, platforms, initiatives, and standardisation working groups.

Key Performance Indicators (KPIs) have been established for eCharge4Drivers already during the proposal stages. At the end of the project, eCharge4Drivers has managed to successfully reach or exceed the vast majority of these KPIs, as can be seen in the table below.

Table 3 : eCharge4Drivers Dissemination Key Performance Indicators (KPIs)

Activity	Expected performance		Achieved
	KPI target: Year 2	KPI target: Year 4	
Website – number of visitors	200/month	400/month	157/month*
Twitter – number of followers	100	200	283
LinkedIn – number of followers	100	200	857
Newsletter – number of newsletters sent out	2/year	2/year	6
Quantity of media coverage achieved	≥10	≥40	21 (press articles in the media)
Number of peer reviewed publications	≥2	≥9	29
Number of external stakeholders attending the local events	20	-	44**
Number of final event attendees	-	100-150	48
Number of participants in awareness events	≥20	≥20	> 50
Number of External Interest Groups participants	≥20	≥40	44**
Number of projects contacted	≥5	≥10	10***
Number of liaison activities performed	≥5	≥10	>15

* lower number than expected due to the reasons mentioned previously in 3.2.2

** total attendance of external stakeholders in the different EIG workshops

*** 1) ELVITEN 2) ASSURED 3) SOLUTIONPlus 4) MEISTER 5) INCIT-EV, 6) E-SMART, 7) USER-CHI, 8) EV4EU, 9) SCALE and 10) TIPS4PED

6 CONCLUSION

This deliverable aimed to provide a final summary of the various dissemination activities carried out throughout the eCharge4Drivers project, from its inception to its conclusion.

The activities presented in this report were carefully selected and implemented with the goal of showcasing and amplifying the project's outputs. These efforts provided unique opportunities to introduce the innovations developed and to stimulate discussion on a wide range of relevant topics, all while maintaining a clear focus on the core themes of the project: e-charging, accessibility, and the user's perspective.

After more than four years of dedicated work and a thorough review of the activities carried out, it can be confidently stated that the efforts were successful. This success can largely be attributed to the strong collaboration among the project partners, which enabled the smooth execution of daily activities such as social media and website updates, as well as the organisation of webinars, EIG workshops, and, not least, the final event.

In summary, the objectives were achieved, enhancing the impact of the project and ensuring its continued influence even after its conclusion.