Rail to Digital automated up to autonomous train operation

D47.1 –Project Dissemination, Exploitation and Communication Plan

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EXECUTIVE SUMMARY

All FP2-R2DATO consortium members work together to achieve shared goals and efficiently share information as outlined in the Grant Agreement (GA) and Consortium Agreement (CA).

Measures of communication, dissemination and exploitation are used to ensure and maximise impact of research and innovation projects. To ensure the timeliness, coherence, and target-orientation, a proper plan of the respective measures is part of the Europe's Rail project FP2-R2DATO.

The communication, exploitation and dissemination plan must be used as guidance in the communicative work and provide support for prioritising the right message and activities and ensuring coherent communication. The plan is based on EU-Rail's communication policy and communication strategy[1] and on the common goal of strengthening the overall EU-Rail programme. This is done by highlighting FP2-R2DATO as an important contribution to the whole rail sector. From this, the goal is to disseminate and communicate the project developments and results to share the successes with the public and other stakeholders.

The aim of this document is to provide a transparent communication, dissemination, and exploitation plan for the FP2-R2DATO project and to describe the materials and approaches that will be used to facilitate the wide-spread distribution of information and knowledge of the results created by the project. The dissemination of FP2-R2DATO results is essential throughout the project duration and needs to be carried out with the active cooperation of all consortium members. Furthermore, it is expected that the dissemination plan, through selected channels, can be used as guidance for future work. The communication, exploitation and dissemination plan is a document that will be updated throughout the project lifecycle to reflect progress and outcome.

This document introduces materials and documents to communicate and disseminate the knowledge generated by FP2-R2DATO results to railway stakeholders, the scientific community, and the public. Those include:

- The creation of a project identity and logo
- An Activity Plan as appendix to the Dissemination, Exploitation and Communication Plan
- An overall message-board
- A modular basic FP2 presentation to be used in different situations when needed
- Planning and organisation of dissemination events (at least mid-term and final events)
- The participation at conferences according to plan of dissemination and communication activities
- The publication of results in relevant journals
- Interactions and coordination with communication, dissemination, and exploitation continued in other Flagship Areas Project

Important findings and useful result will be spread with tailor-made messages, through the most appropriate channels and frequency to the target groups across EU-Rail, the rail sector, the

[1] https://rail-research.europa.eu/wp-content/uploads/2022/07/EU-Rail-Stakeholder-Relations-Dissemination-and-Communication-Strategy.pdf

scientific community, and the public by the means listed above. Knowledge can then be used to “Go Research, Go External, Go Internal” by their interest and needs. The result can be used by research organisations, by other actors in the rail system community or by the partners within FP2 or other FPs and even the System Pillar.
The dissemination plan will not include the verification of content for which WP leaders are responsible. WP Leaders are responsible for ensuring that the inputs to the Dissemination Work Package reflect the actual output and progress within the respective Work Packages.

ABBREVIATIONS AND ACRONYMS

ATC	Automatic train control
CA	Consortium Agreement
CER	Community of European Railway and Infrastructure Companies
CT5	Cooperation Tool
ECTRI	European Conference of Transport Research Institutes
ERRAC	European Rail Research Advisory Council
EU	European Union
EU-Rail	Europe's Rail Joint Undertaking
EP	European parliament
FP	Flagship Project
FP2	Flagship Project 2
GA	Grant Agreement
JU	Joint Undertaking
KPI	Key Performance Indicator
MAWP	Multi-Annual Work Programme
OEM	Original Equipment Manufacturer,
SME	Small and medium-sized enterprises
SP	System Pillar
TRA	Transport Research Arena Conference
TMT	Technical Management Team
UNIFE	Railway Industry Companies Organization
UIC	Union Internationale des Chemins de fer
WCRR	World Congress on Railway Research
WS	Work Stream
WP	Work Package

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1 BACKGROUND

The Project FP2-R2DATO (GA-No. 101102001) is done in the framework of the Flagship Area "Digital & Automated up to Autonomous Train Operations" as described in the EU-RAIL Multi-Annual Work Plan[2] (MAWP).
The project started on 1st December 2022. The consortium consists of 28 members.

Table 1: List of the 28 project members

1	SOCIETE NATIONALE SNCF
2	ADMINISTRADOR DE INFRAESTRUCTURAS FERROVIARIAS
3	ALSTOM TRANSPORT SA
4	MER MEC SPA IT
5	AZD PRAHA SRO
6	CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES S.A.
7	ASOCIACION CENTRO TECNOLOGICO CEIT
8	DEUTSCHE BAHN AG
9	DEUTSCHES ZENTRUM FÜR LUFT - UND RAUMFAHRT E.V.
10	COMSA INSTALACIONES Y SISTEMAS INDUSTRIALES S.A.
11	FAIVELEY TRANSPORT SAS
12	FERROVIE DELLO STATO ITALIANE SPA
13	HITACHI RAIL STS SPA IT
14	INDRA SISTEMAS SA
15	NORWEGIAN RAILWAY DIRECTORATE
16	KNORR-BREMSE SYSTEME FÜR SCHIENENFAHRZEUGE
17	ÖBB-Infrastruktur AG
18	ÖBB-PERSONENVERKEHR AG
19	PRORAIL BV
20	NS REIZIGERS BV
21	SIEMENS MOBILITY GMBH
22	GTS DEUTSCHLAND GMBH
23	TRAFIKVERKET - TRV
24	SCHWEIZERISCHE BUNDESBAHNEN SBB
25	KONTRON TRANSPORTATION GmbH
26	SPORVEIEN TRIKKEN AS
27	UNION INTERNATIONALE DES TRANSPORTS PUBLICS
28	GEOSAT

The project has an overall budget of 160M€.

[2] https://rail-research.europa.eu/wp-content/uploads/2022/03/EURAIL_MAWP_final.pdf

FP2-R2DATO will take the advantages of digitalisation and automation to develop the Next Generation ATC and deliver scalable Digital and Automatic (up to Autonomous) Train Operation (DATO) capabilities to enhance the capacity of the existing rail networks. Tangible results of FP2-R2DATO are expected to be delivered by 2025 on key topics: ATO, ETCS Hybrid level 3 and Level 3 Moving Block, digital technologies (5G-connectivity and a standardised onboard ICT-platform), and guidelines and methods for fast and cost-effective deployment and migration of DATO throughout Europe. Through these technical improvements FP2-R2DATO will meet the objectives and impacts defined in the EU-Rail Master Plan and Annual Work Program: contribute to increased punctuality, reliability, and productivity of staff, rolling stock and infrastructure.

The EU-Rail Master plan will be updated twice a year for the duration of the project.

FP2-R2DATO strives to have effective communication, exploitation and dissemination activities that serve to inform and engage a community of stakeholders and to disseminate the results of joint efforts broadly with tailored messages, through the most appropriate channels and frequencies to target groups as described in section 6.

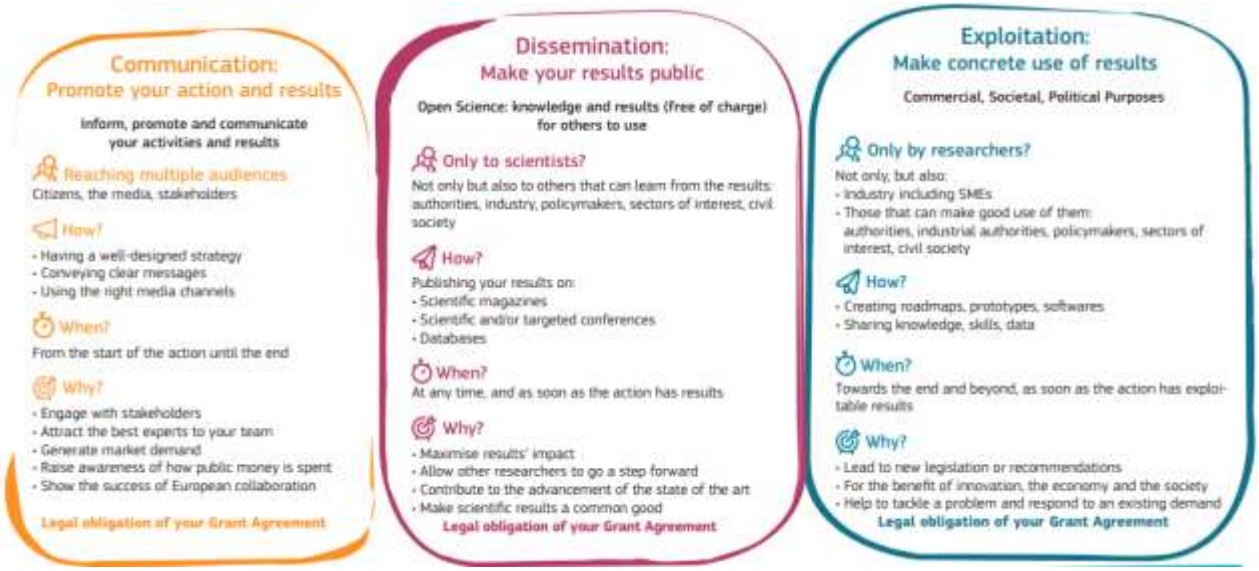
2 OBJECTIVE / AIM

The objective of this document is to describe communication, exploitation and dissemination activities envisaged during the life of the project. Project results and outputs are disseminated widely and effectively with tailor-made messages, through the most appropriate channels and frequency to the target groups across EU-Rail, the rail sector, and beyond. Furthermore, to raise awareness at EU level of results developed in FP2-R2DATO, the project aims to undertake dissemination, exploitation and communication measures not only to maximise the impact in by reaching the objectives described above, but also to raise awareness on the technology developed, the results and the significance of their impact. In addition, activities must be supported by all the partners, and contributions shall include providing content for the public website, the newsletters and other dissemination materials, which encompass the activities and the dissemination of the results obtained from the demonstrators. The work shall ensure stakeholders engagement, through events and publications. Furthermore, exploitation aims enabling or supporting the deployment of new technologies and/or methods.

3 DEFINITIONS

Dissemination and exploitation of results is crucial to the acceptance and implementation of technologies developed in the project by suppliers and end-users. Throughout this document the terms ‘dissemination’, ‘exploitation’ and ‘communication’ will be used frequently. The following definitions used by the authors are based on the reference terms of the EC for research and innovations:

Figure 1: The difference between communication, dissemination and exploitation[3]

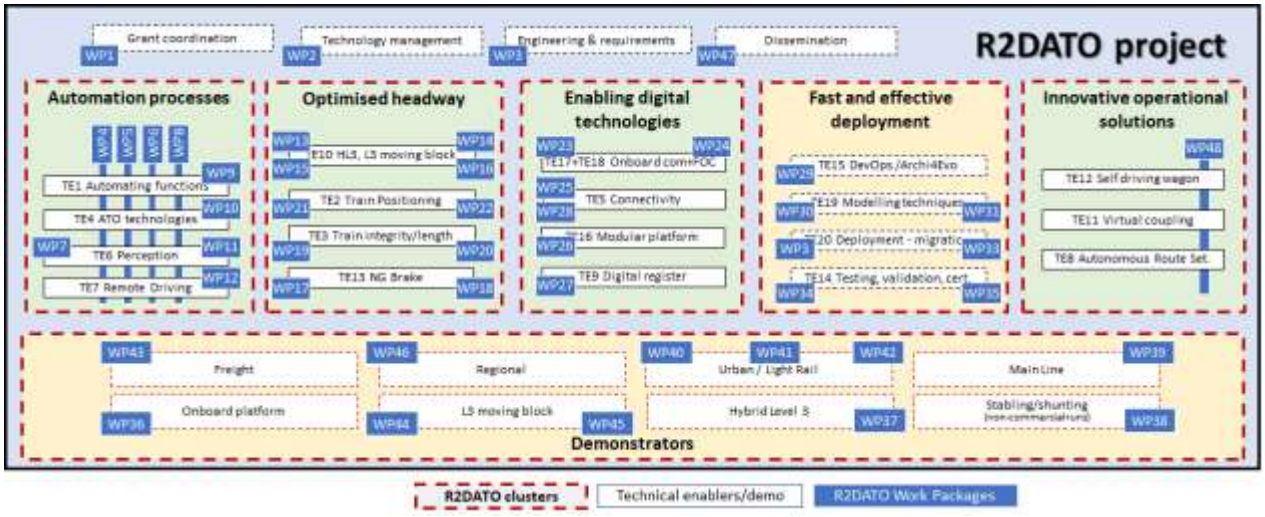


[3] https://ec.europa.eu/research/participants/docs/h2020-funding-guide/imgs/quick-guide_diss-expl_en.pdf

4 ORGANISATION

The overall structure of FP2-R2DATO is presented in Figure 2.

Figure 2: FP2-R2DATO organisation



FP2-R2DATO has designed a specific work package (WP47) to coordinate and manage the communication, dissemination and exploitation activities within the project, with the aims to deliver results regarding the project goals. The work shall ensure stakeholders engagement, through events and publications, SNCF is the WP Leader of this project. For this subject, all members of the consortium under the lead of SNCF and DLR are cooperating to achieve the three different tasks displayed below:

- Task 47.1: **To develop a dissemination and communication strategy plan** including stakeholder-specific approaches and an activity timeline to maximise efficiency of the planned dissemination and communication activities
- Task 47.2: **To set up dissemination and communication channels** to ensure a permanent link/communication to all the stakeholders
- Task 47.3 **To monitor and to compile Dissemination, Communication and Exploitation** actions to manage and to facilitate the outputs from the technical enablers and demonstrators developed in FP2-R2DATO. A meeting will be held at least twice a year with all work package members.

The present document constitutes the Deliverable D47.1 “Communication, Exploitation and Dissemination Plan” in the framework of FP2-R2DATO.

The FP2-R2DATO project establishes the communication within EU-Rail, such as with end-users, enablers, and other stakeholders such as ERA, UNIFE, CER, UIC, ECTRI, ERRAC[4] etc. in the transport sector during and will deliver the project results to its target groups with tailored messages, through various channels. Note that technical communication with the System Pillar and interaction between FPs are mostly foreseen and supervised in WP2 and WP3.

The objectives of FP2-R2DATO communication and dissemination activities are to raise awareness and disseminate FP2-R2DATO programme and project developments and results to key stakeholders. The dissemination, communication and exploitation have the following concrete objectives:

- To raise awareness, communicate and disseminate project developments to key stakeholders and external actors.
- To ease maximal exploitation of FP2-R2DATO project results.
- To implement and update an appropriate and a specific online presence (website, social media) for FP2-R2DATO and other relevant dissemination material to ensure continuous outreach of the project outcomes, as well as transfer of knowledge.
- To organise and participate in key events and demonstrations to ensure cooperation with the most important international forums as well as consult with related projects and initiatives.
- To gain sustainability over time through enlarging the community, and consulting with organisations, communities, and projects by establishing cooperation in a long-term perspective.

Specifically regarding FP2-R2DATO objectives, the project will develop communication and dissemination tools and messages that will be tailored to the targeted audience.

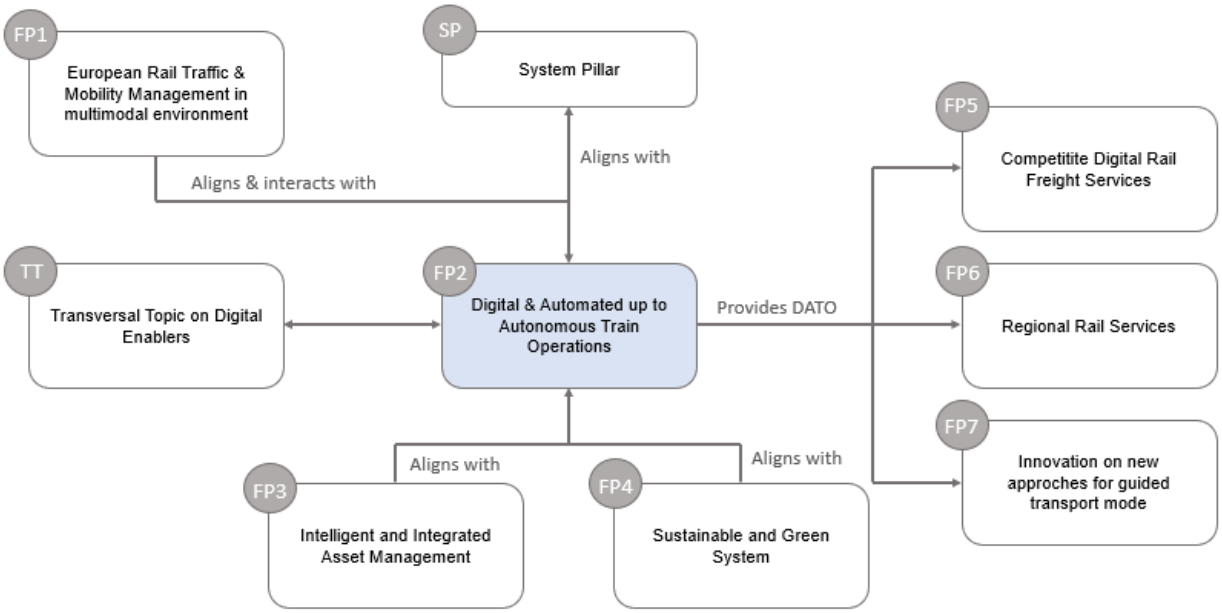
[4] ERRAC was establish in2001 to serve as a much-needed single European body with both the competence and capability to help revitalise the EU's rail sector and make it more competitive by fostering increased innovation and guiding research efforts at European level.

5 METHODS AND PROCEDURES FOR EU-RAIL INTERNAL COMMUNICATION

The main task of deliverable 47.1 is to ensure communication activities and methods inside EU-Rail. Numerous meetings are organized to ensure a constant update and progress of dissemination activities within FP2-R2DATO (WP47 Core team meeting, Complete WP47 team meetings, JU Communication team meetings, Microsoft Teams Channel set up by the EU-Rail Communication Team that allows a direct contact between FPs and the EU-Rail). In short, the Dissemination WP47 should act as a support and platform for FP2-R2DATO results.

To achieve a large flow of information and interaction within WP47 itself, the WP need to have a 360-degree network [5]of contacts both within and outside WPs. The contact is made through the regular interaction sessions between FP2 and the other FP as well as with the SP, but it also extends to the JU with the communication session organized. A list of relevant contacts per WP, is available on CT5. It is expected that any participant of WP47will channel the potential requests for needs requirements, questions, and information that need to be considered. Figure 3 shows a schematic view regarding the contact network.

Figure 3: FP2 relationships inside the ER JU environment to match objectives



[5] A 360-degree network involves mobilizing all available communication channels to reach a target audience.

6 TARGET AUDIENCE AND TARGETS GROUPS

Depending on the stakeholder analysis, communication and dissemination will be adapted, offering different channel choices. The communication and dissemination will be concise and tailored to the recipients. To spread the knowledge and learn from the results, not only the technical community is intended to be covered, but also others such as: authorities, industry, decision makers, interest sectors and civil society.

Stakeholder mapping: The railway sector as interpreted by FP2-R2DATO consists of four different target groups, which are shown in Figure 3.

- Authorities and decision-makers in the rail sector, infrastructure managers and railway operators, presented in blue.
- Enablers and stakeholders which includes parties such as industry with OEMs and SMEs, presented in orange.
- There are other interested actors such as the Academy with researchers including students, and research institutes, presented in grey.
- There are also a group of associations like UITP (Union Internationale des Transport Publics), UIC (Union Internationale des Chemin de fer), CER (Communauté Européenne du Rail), …
- Finally, the public with the media and citizens, Presented in yellow.

This mapping may be updated during the project.

Regarding larger, well-defined groups and stakeholders, conferences are judged to be the best option for dissemination activities (Figure 4). To have an effective interaction with the target groups, different communication methods presented in Figure 4 will be used. Workshops and seminars are suitable for smaller and well-identified groups. For larger and imprecise groups, newspapers, scientific journals, media, and social media are appropriate.

Figure 4: Stakeholders mapping

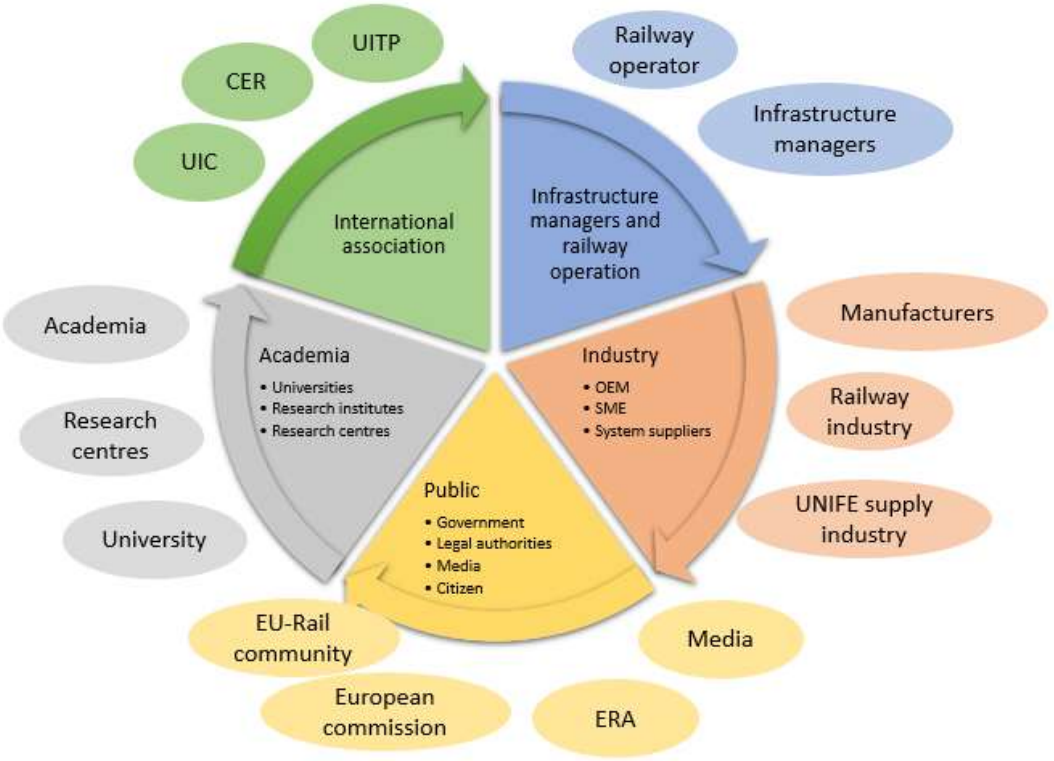


Table 2: Dissemination & Communication activities to the target groups

	Targets groups														Other target groups	
Dissemination activity	Railways		Industry			Academia		Public				Associations			Users	
	Railway operator	Infrastructure Managers	OEM	SME	System suppliers	Research centres	Research organisations	Gov	Legal	Media	Citizen	UITP	CER	UIC	Travellers/ Passengers	Freight customers
Branding and visual identity	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Project conference	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
Project workshops roundtable, forums	X	X	X	X	X	X	X	X		X		X	X	X		
Brochures, leaflets	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
Journal articles, media release	X	X	X	X	X	X	X	X		X	X	X	X	X		
Video	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X

Stakeholder benefits: The analysis in Table 1 shows different benefits that can be derived from FP2 R2DATO activities in relation to the stakeholders' categories. They are sorted as Railway

companies, Train operators, Manufacturers, and Infrastructure managers. In addition, different benefits and results expectance are presented in table 3.

Table 3: Benefits relating to FP2-R2DATO example

Benefits FP2 – results to stakeholders	Railway Operators	Infrastructure Managers	Suppliers	Users
Increased competitiveness	Offer improved and more responsive to demand	Improved capacity and higher automated processes	Deliver solutions that increase automation and consequently competitiveness	Improved offer in terms of demand, punctuality, and capacity
An efficient railway system	Improved services and offers on the railway as well as reduced disturbance	An interoperable, resilient rail system with increased capacity, especially dedicated solutions for regional lines	Eliminate barriers to interoperability	Improved offer in terms of demand, punctuality, and capacity

7 COMMUNICATION AND DISSEMINATION STRATEGY

The communication and dissemination strategy of the FP2-R2DATO project is a key component to ensure the visibility, impact, and uptake of its results by a wide range of stakeholders. This unified strategy aims to define what should be communicated or disseminated, to whom, how, when, and why, while also outlining the tools and materials used to support these actions.

7.1 OBJECTIVES AND SCOPE

The strategy is based on a structured and coordinated approach across all work packages and consortium members, in alignment with the Master Plan (MAWP) and project objectives. It is designed to:

- Promote the project's mission of improving railway capacity and efficiency through Digital and Automatic Train Operation (DATO),
- Ensure cost-effective and harmonised deployment across EU Member States,
- Disseminate technical and scientific outputs,
- Engage stakeholders and the public with clear, accessible messaging.

This strategy supports both the technical objectives of the project and its wider public impact, ensuring that communication activities align with project milestones and stakeholder interests.

7.2 CORE ELEMENTS OF THE STRATEGY

The communication and dissemination activities are built on several key pillars:

7.2.1 Definition of objectives

The main objective is to present FP2-R2DATO and its progress/results in a way that ensures:

- Recognition of the project's relevance to EU climate and transport goals,
- Widespread awareness and understanding of new railway technologies,
- Stakeholder engagement for smooth deployment and adoption.

7.2.2 Identification of target audiences

The strategy distinguishes between dissemination targets (experts, researchers, technical stakeholders) and communication targets (general public, policy makers, media), ensuring that messaging and tools are tailored to each audience.

7.2.3 Communication channel and tools

Multiple channels and tools are used to ensure wide dissemination and visibility, including:

- Events and conferences,

- Printed and digital materials (brochures, factsheets),
- Videos and webinars,
- Online platforms (website and social media),
- Partner networks and EU-Rail infrastructure.

7.2.4 Timeline of activities

Activities are structured over the full project lifecycle (2022–2026) with key focus points:

- 2023–2024: Awareness and visibility around general project information and stakeholder engagement.
- 2025: Demonstration and promotion of results.
- 2026: Final dissemination of deliverables and beginning of exploitation phase. The activity timeline is detailed in the strategic planning table.

Table 4: FP2-R2DATO Programme

Year	Month	Suggestions	MAIN TOPICS
2022	DEC	Communication and Dissemination activities	**Introduction to FP2-R2DATO:** The introduction to a project provides an overview, explaining the context, objectives, scope, and rationale of the project. It also describes the expected results, the main stakeholders, and sometimes an overview of the methodology. This section aims to establish the project's framework for readers, highlighting its importance and main objectives. In addition to defining the expected results, this section can include information on communication and dissemination, specifying how the results will be shared with the target audience and stakeholders, in order to maximize the project's impact. This ensures a clear understanding of the intentions and means put in place to disseminate the knowledge and results obtained. During the first year, numerous presentations of the project were carried out, especially to explain and describe the objectives of R2DATO. This initial phase has laid the foundation for the work to be carried out in the coming years, allowing all partners to align on common goals, key messages and strategic priorities.
2023	SEP		
	OCT		
	NOV		
	DEC		
2024	JAN	Communication and Dissemination activities	**General info about FP2-R2DATO or specific activities in FP2-R2DATO:** General project information provides an overview, including title, objectives, context, duration, budget, stakeholders and risks. Specific activities, on the other hand, detail the concrete actions to be taken to achieve the objectives, such as developing deliverables, organizing workshops, communicating, and monitoring. They enable the objectives to be transformed into concrete actions to ensure the project's success. Communication and dissemination play a key role in
	FEB		
	MAR		
	APR		
	MAY		
	JUN		

	JUL		ensuring the project's visibility, sharing results with stakeholders and the public. As the project enters its second phase, communication and dissemination activities are intensifying, allowing for more targeted outreach on specific aspects of R2DATO. The Mid-Term Event has also taken place, serving as a key moment to assess the progress made so far and to clearly present both the achievements and the remaining work ahead. Numerous deliverables are currently under development and are being progressively reviewed and approved by the JU. These documents will be published on the project website in due course, further enhancing transparency and knowledge sharing.
	AUG		
	SEP		
	OCT		
	NOV		
	DEC		
2025	JAN	Communication and Dissemination activities	
	FEB		
	MAR		
	APR		
	MAY		
	JUN		
	JUL		
	AUG		
	SEP		
	OCT		**Demonstration activities:** Demonstration activities in a project are designed to show how a solution works or performs under real or simulated conditions. They help validate development, identify potential problems, and convince stakeholders of the value of the solution. At the same time, communication and dissemination play a key role in disseminating the results of demonstrations to stakeholders and target audiences, to ensure wider understanding and adoption of the solution. In this penultimate phase of the project, a significant number of deliverables are expected, as nearly three-quarters of the project have already been completed. Numerous on-site visits and travels will take place to attend and support technical demonstrations across different locations. In parallel, many strategic discussions are ongoing to prepare for Phase 2 of the project, ensuring continuity and capitalizing on the progress already made.
	NOV		
	DEC		
2026	JAN	Communication and Dissemination activities	
	FEB		
	MAR		
	APR		**Results and deliverables:** The exploitation of a project focuses on how the results and knowledge acquired are used and integrated into real-life practices. This includes implementing the solutions
	MAY		
2026	OCT	Exploitation	

	NOV	(out of project plan)	developed, integrating them into existing processes, and assessing their impact on the targeted objectives. To support this exploitation, effective communication is essential. This includes public communication to inform the general public of the results, internal communication to ensure coordination within the team, and communication with stakeholders to keep them informed of progress. The visibility of the project is enhanced by the organization of events, and rigorous documentation ensures that the results and impacts of the project are reported. This final phase of the project is critical, as it is when all remaining deliverables are expected to be finalized and formally approved by the Joint Undertaking (JU). It is also a pivotal moment for holding key discussions to ensure the smooth and strategic launch of Phase 2. The Final Event, in May/June 2026 will serve as a major platform to present everything achieved throughout the project, featuring mock-ups, presentations, and webinars to share as much knowledge and experience as possible with the broader community. All these advancements will also be showcased during InnoTrans 2026. An amendment to the project has been made to allow certain WPs, particularly those linked to demonstrators, to continue their efforts until InnoTrans to present their research. As a result, the communication and dissemination of these elements will take on even greater importance. An additional year (as per the Consortium Agreement section 8.5 Dissemination) will be devoted to continuing the communication and dissemination activities that have been carried out throughout the project.
	DEC		
2027	JAN		
	FEB		
	MAR		
	APR		
	MAY		
	JUN		
	JUL		
	AUG		
	SEPT		

7.3 COMMUNICATION AND DISSEMINATION TOOLS

To support and operationalise the strategy, a set of tools and materials has been developed.

7.3.1 Visual identify and branding

Visual identity has been stablished by EU-Rail's Communication Team as a mandatory guideline for all partners in any communication, dissemination, and exploitation action.
The project logo and an accompanying visual identity (color scheme, fonts) have been developed to establish a strong project identity. A strong identity evokes recognition among stakeholders, ensures consistency in communication activities, and positions the FP2-R2DATO project as a strong brand. The project logo has been, and will be, used in many ways throughout the project: it is on the project website, on the project leaflet, in presentation templates, and on all other forms of communication material developed by the FP2-R2DATO project.
All templates are available on CT5 in the CL0 -> FP2GEN tab and can be accessed by all project members.

Figure 5: The FP2-R2DATO logo

In addition to the logo, various document templates were developed to support the consistent use of the FP2-R2DATO identity: a PowerPoint template, a deliverable template, a meeting minutes template, and a meeting agenda template. All consortium partners are constantly encouraged to make use of these templates when presenting the PF2-R2DATO project internal and external meetings alike.

7.3.2 Website

The FP2-R2DATO website is a communication tool for the consortium partners, relevant stakeholders, and the public. Together with events, it will be one of the project's main gateways to reach target groups outside the consortium.
The FP2-R2DATO website will be regularly updated to provide an up-to-date picture of the project, report the latest developments, and announce upcoming events. All the website's content will be created and written in a way that is understandable and attractive to everyone accessing the platform, hereby ensuring reaching as many people as possible. Alongside being a platform for the public, the website also serves as a gateway to the 'private area', where everyone with access (mainly consortium members) can share documents in a secure environment.

The FP2-R2DATO website can be accessed via https://rail-research.europa.eu/rail-projects/fp2-r2dato/

The website is composed of seven different sections. Each of these pages is divided into various subpages, which all elaborate a different element of the project. The pages are as follows:

- Home
- About FP2-R2DATO
- Expected results
- Partners
- News and events
- Keys outputs
- Contact

Figure 6: The FP2-R2DATO website

7.3.3 Event participation

One of the main activities that allow FP2-R2DATO projects to send out an aligned message is through events. Where projects should speak to their own audience and target group, having a joint presentation or workshop that shows how the project is progressing. All project events are described in the activity plan section of this document. Specialist magazines such as Global Railway Review, Railway Gazette International, International Railway Journal, and others could also be invited to these events. In this way, the media could have a good source of information, and the project could be publicised more widely. Important here is to provide the audience with information on how all projects together are important to reach seamless travel experience.

The below events can serve as the backdrop for common FP2-R2DATO activities:

- Attendance and dissemination at industry trade events and conferences (e.g., Transport Research Arena, InnoTrans, Space for innovation in Rail, International conference on railway, Europe transport conference, …).
- Show the R2DATO result in the first quarter of 2025 at the mid-term event.
- Show the R2DATO result in the second quarter of 2026 at the final event.

The list of events is presented in section 8.5.1 Event, presentation & conference.

7.3.4 Brochures and factsheets

In the FP2-R2DATO, brochures and information sheets could be created to present the project's objectives in a concise manner. This information will initially be disseminated through a brochure on the project, aimed at the associations and organisations concerned. In addition, the results of the project will be published in newsletters, technical documents, specialist journals and at conferences.

For example, for the Mid-Term Event, a dedicated brochure was created and distributed to all participants. This brochure provided key information such as:

- The background and context of the FP2-R2DATO project,
- The main objectives and their importance for the future of rail automation and digitalization,
- The full event programme,
- The structure of the project and its different components,
- As well as practical information including shuttle bus schedules, restaurant addresses, transportation details, and other logistical arrangements.

7.3.5 Newsletters

To enhance internal communication within the consortium, newsletters will be produced and distributed to project members every three months, approximately two weeks before each SIPB meeting.
These newsletters will aim to keep all partners informed of the project's major milestones and updates.
Each newsletter will be structured into three main sections:

- Project Highlights: Major progress and achievements across all work packages,
- Communication and Dissemination Activities: Key communications actions carried out (e.g., publications, events, media appearances),
- Upcoming Events and Project Milestones: Forthcoming activities, important deadlines, and strategic events not to be missed.

Once distributed to consortium members, the newsletters will also be made available on the FP2-R2DATO public website to ensure broader visibility and transparency.

7.3.6 Videos and webinars

Videos will be made and recorded to show demonstrations at webinars, conferences, shows and exhibitions. The aim of these webinars is to present the latest project activities to interested stakeholders and to present the results of studies. Videos will be made specifically for major events as InnoTrans, live demonstration at Steering Committee. And we will also create a official video for the FP2 R2DATO project. We will use the videos during events to ensure their promotion and we will give the videos to the Europe’s Rail Joint Undertaking so they can be published on the website and on social media channels. Partners will also be able to use them whenever they create events for displayed their work inside the project.

The list of videos produced as part of the project is presented in section 8.5.4 Videos.

7.3.7 Online communication

Other dissemination and communication activities can be implemented via online channels of company profiles on LinkedIn to support the FP2-R2DATO project message. The results of the project will be presented on the dedicated website, and the transmission of validated knowledge between projects will be ensured, thus constituting an exploitation action aimed at promoting the results. Further exploitation measures will be added in the exploitation plan, which will be regularly updated with these measures. Mid-term event and final event will also help to promote the results through online access.

7.3.8 Project documentation and publications

Throughout the project, several deliverables, reports, presentations, and other documentation, will be produced. Most of these project document will be made publicly available via the FP2-R2DATO website, specifically in the dedicated ‘Deliverable’ section of the website. Making project documentation publicly available will support the uptake of project results beyond the consortium and funding duration.
In addition to all the project deliverables, a project presentation will be produced to provide an overview of the project and detail the content of each work package. The presentation, entitled "FP2-FP2GEN-M-SNCF-009-01-R2DATO_Presentation_General", is shared with everyone involved in the project, and will be adapted to be used at project-related events.

7.3.9 Dissemination and communication via partners

Most of the FP2-R2DATO partners are part of large networks of operators and universities, as well as engineering and specialist groups. To widen the dissemination of the project, partners are encouraged to use these networks to disseminate information about the project activities and developments, as well as the results. Dissemination activities undertaken by partners can take different forms, such as including information about the project in a newsletter or on their website, distributing press releases to local press contacts, or presenting the project at an event.

8 OPERATIONAL PLAN FOR COMMUNICATION AND DISSEMINATION

As outlined in the FP2-R2DATO Description of Work, the communication and dissemination strategy play a central role in supporting the project's visibility, stakeholder engagement, and impact, both during the project lifecycle and beyond.

8.1 OBJECTIVES

The main communication and dissemination objectives are to:

- Establish a communication and dissemination platform to facilitate wide-spread information transfer amongst and beyond the members of the consortium (and beyond the life of the project).
- Set up and make use of communication channels with the JU and implement a “knowledge transfer” between other EU-Rail projects to ensure a permanent link/communication.
- Ensure that appropriate dissemination and communication strategies are applied.
- Delivery of high-quality results and technologies.
- Organise mid-term & final conferences.
- Communication activities through members’ social media channels
- Ensure that the project outputs reach targeted decision makers and stakeholders.
- Monitoring KPIs, achievements, etc.

8.2 FORECASTING OF ACTIVITIES

Communication and dissemination actions will be carried out throughout the entire project duration and continue for one additional year (as per the Consortium Agreement section 8.5 Dissemination). These activities are managed as a living process to remain relevant and responsive.
A Communication and Dissemination Activity Plan outlines the basic structure, timeline, and types of content to be developed. This plan includes all upcoming activities, such as conferences, events, workshops organized by partners, or video projects. It is regularly updated by the WP47 leader and shared with partners during Steering Committee and plenary meetings with WP47 members. The plan is also maintained on the project SharePoint site (ShareDato). Members are required to inform the WP47 leader of any additional activities they wish to participate in.
When a member intends to take part in an activity, the WP47 leader and the project coordinator are informed so that the activity can be shared and agreed upon within the consortium. The activity is recorded and stored on the project site and in Share-DATO.
Follow-up meetings are held two to three times per year to assess progress and make any necessary adjustments.

8.3 EVALUATION OF ACTIVITIES

The impact of dissemination and communication of the FP2 R2DATO project results must be evaluated.
It will be done through :

- Feedback from external parties (e.g., universities, research institutes) will be considered to update and complete the dissemination and communication activities through the duration of FP2 R2DATO.
- Analysis of visibility (number of views) of news, project's sheets, etc published as on JU website, so on the websites of the project's partners.
- Commonly agreed performance indicators (e.g., increased number of marketable new and/or improved products and services, filed patents, contacted stakeholders, number of standards achieved, etc.) will be monitored and evaluated and included in the reporting to the JU.
- In addition, the evaluation will also be supported by the project KPIs (section 8.4 Log-File of Activities), managed and monitored by the respective WPLs.

8.4 Log-File of Activities

The communication and dissemination activities of the FP2 R2DATO project, as requested by the EU-Rail JU during the meeting on 30 June 2025, are listed in table below. This provides project members with a guide to the activities expected within the project. These activities may evolve over the course of the project and are therefore not mandatory. Nevertheless, the EU-Rail JU requests that members make every effort to adhere to them as closely as possible.

Table 5: Updated KPIs to adhere to

	Specific Metric	Minimum Target/Output
Scientific Articles	Number of scientific articles	15 articles during project lifecycle (for projects at TRL 2-5) 10 articles during project lifecycle (for projects at TRL 6-8)
Demonstration Articles	Number of dissemination articles per demonstration activity	2 articles per each demonstration activity at distinctive phases of the project
Catalogue of Solutions	Entries provided	As solutions reach TRL6 or higher, projects are required to contribute detailed entries to EU-Rail's Catalogue of Solutions
Social Media Posts (EU-Rail)	Number of social media posts on the EU-Rail channel	4 posts per year
Website Posts	Number of posts on the project's website	6 posts per year in years 1 and 2 12 posts per year in years 3 and 4
Videos	Number of videos created and published	4 videos during project lifecycle
Conferences & Events	Number of proven dissemination activities at events/conferences	4 presentations / posters per year
Stakeholder Engagement	Number of engagement activities with decision-makers	2 events during project lifecycle

Mid-term and Final event	Number of public dissemination activities organised by the project	2 events during project lifecycle
Media Coverage	Number of media mentions per each country covered by the project participants	2 mentions per year per each country covered by the consortium participants

8.5 GLOBAL ACTIVITY PLAN

The activity plan is presented at the end of each year in the Technical Report. This plan, in table format, lists all the activities in which project members have participated, as well as all the outputs produced during the year. The table below provides a summary of the communication and dissemination activities carried out around the project. It is organized into several categories, reflecting the different types of communication and dissemination actions undertaken during 2024.

8.5.1 Event & Presentation

Table 6: Events & Presentations

Date	Activity	Where	Description of the activity
Feb-Mar 2024	MENA congress	United Arab Emirates, Dubai	Leading event for sustainable urban mobility solutions
6-7 Mar 2024	RailTech Europe	Utrecht, Netherlands	Global platform for railway professionals to share and expand their knowledge on new technologies and projects in the railway industry
2-5 Apr 2024	Connecting Europe Days 2024	Brussels, Belgium	Event organised by EU to promote sustainable transport and dicuss policy needed
15-18 Apr 2024	TRA 2024	Dublin, Ireland	Foremost European transport event that covers all transport modes Title: FP2 R2DATO: Stepwise Approach for the Autonomous Tram
16 Apr 2024	TRA 2024	Dublin, Ireland	Title: Exploring Scenarios for Remote Driving and Autonomy in Trams
23 Avr 2024	2024 ERTMS Conference	Valenciennes, France	It will highlight lessons learnt from successful implementation projects, the state of play of ERTMS deployment and the future perspectives. In addition, the conference will deeply explore the migration and implementation strategies for FRMCS alongside innovation and research projects contributing to the evolution of the CCS TSI.

24-27 Sept 2024	Innotrans 2024	Berlin, Germany	The first presentation provides an overview of all the clusters, the WPs and TEs currently being developed within the cluster, and the demonstrators targeted. It is based on the overview also used for the Annual Activity Report. The second presentation provides an overview of the demonstrators, as mentioned in part B of the grant agreement. The aim is to explain the purpose of the demonstrator, the Technical Enables incorporated into the demonstration, and some details, illustrated by architecture, line images, visuals, diagrams, and timetables, to facilitate understanding and clarify the purpose of the demonstrator.
24-27 Sept 2024	Innotrans 2024	Berlin, Germany	Presentation made by WP30 for Innotrans concerning the modelling techniques.

8.5.2 Papers

Table 7: Papers

Date	Activity	Where	Description of the activity
15-18 Apr 2024	Paper for TRA 2024 Conference	Dublin, Ireland	Transition to remote driving: challenges and best practices for collaboration in the digital age
6 Jun 2024	2024 STAMP Workshop	MIT Campus in Cambridge, Massachusetts	Each year, MIT hosts an industry workshop on STAMP-based techniques (STPA, CAST) to share applications, evaluations, and developments in system safety and cybersecurity. The event begins with tutorials introducing the methods, followed by presentations, panels, and poster sessions where international practitioners exchange experiences and best practices..
4 - 6 Sept 2024	Paper for EWGT Conference	Lund, Sweden	This study reviews the benefits of Automatic Train Operation (ATO) for railway traffic, highlighting its role in optimizing resources, improving passenger experience, boosting efficiency, and enhancing safety and reliability. Using thematic content analysis of peer-reviewed literature, it provides insights for stakeholders on the potential of ATO for non-metro rail lines, encouraging broader adoption despite associated costs.
2-3 Dec 2024	SFPVV 2024	Hiroshima, Japan	Towards a Novel Approach to Railway Safety using STPA and Promise Theory

8.5.3 Workshops

Table 8: Workshops

Date	Activity	Where	Description of the activity
21 Mar 2024	Proof of Concept A - Remote Operation	Oerlikon, Switzerland	During the event, we will present the scope of the test, our test configuration, and our initial findings. There will be a live demonstration of a test drive at the remote office where we will show different real-life scenarios.
6 Jun 2024	2024 STAMP Workshop	MIT Campus in Cambridge, Massachusetts	Each year we host an industry workshop at MIT to allow practitioners to share latest uses of STAMP-based techniques like STPA and CAST, to meet with other

			practitioners using these methods, and to hear about applications, evaluations, and developments in these powerful new approaches to system safety and cyber security. The first day typically provides short tutorials to introduce STAMP, STPA, CAST, and related techniques. The workshop and tutorials are not an MIT course and are not training classes. The following days involve presentations, panels, and poster sessions from organizations around the world who want to share their experiences with these techniques.

8.5.4 Article for Scientific journal

Table 9: Articles for scientific journal

Activity	Description of the activity	Relevant Link
Signal + Draht journal	**A versatile test component based on the EULYNX Subsystem Point** With the rise of standardized modular signalling architectures, external validation and verification of signalling subsystems are crucial to ensure conformity and interoperability. Testing involves various setups where subsystems assume different roles. This led to the development of a "versatile test component." The article details its implementation for point controller and point machine subsystems.	https://elib.dlr.de/204819/1/SD_00924_Schwencke_Elib.pdf
Futur transportation journals	**Managerial challenges in implementing ERTMS, RTC and ATO: A Literature review.** This paper explores the managerial challenges in implementing the ERTMS, RTC and ATO within the railway sector. It highlights the need for updated managerial practices to successfully integrate these technologies, which are crucial for advancing digitalization and automation in railways. Given the complex sociotechnical nature of railways, the study emphasizes the importance of aligning technical and social systems across organizational levels. The paper adopts an organizational perspective and uses a scoping review methodology to analyse these challenges within the broader context of railway organizations.	https://www.mdpi.com/2673-7590/4/4/65
Procedia Computer Science	**Automatic Train Operation and Project Management: A Scoping Review** This paper presents an ongoing scoping review investigating the impact of Automatic Train Operation (ATO) on project management in the railway industry. By examining the challenges and implications of ATO implementation, the study aims to help stakeholders better manage ATO-related projects and support its successful integration into modern railway systems.	https://www.sciencedirect.com/science/article/pii/S1877050924015837?via%3Dihub
6th SmartRaCon Scientific Seminar	7 papers were product for this seminar: - Increase Safety in Regional Networks with Decentralization – The Autonomous Route Setting Approach	https://elib.dlr.de/212744/1/AnRS.pdf

	- Cybersecurity Risk Assessment of Virtually Coupled Train Sets.	https://ri.diva-portal.org/smash/record.jsf?pid=diva2%3A1921535&dswid=2184
	- Map-matching for train localisation: from the digital map to the map-matching techniques - CEIT's Multi-connectivity Platform Development - A framework for GNSS-based solutions performance analysis in an ERTMS context - Driving the future of autonomous train operation: The R2DATO Project Development of the Preliminary Stages for ATO lab prototype in sight of a future inspection vehicle.	https://www.ceit.es/documents/24233193/41324655/SRC6SS_Proceedings_2024.pdf

8.5.5 Videos

Table 10: Videos

Date	Where	Description of the activity	Relevant Link
Jun 2024	SC & Demo in Oslo, Norways	Video showing the trip to Oslo (SC and demonstrator)	Link here https://rail-research.europa.eu/wp-content/uploads/2025/02/FP2-R2DATO-Oslo-Video.mp4
24-27 Sept 2024	Innotrans 2024 Berlin, Germany	The goal of this video is to describe their activities and the main objectives of the partner's collaboration within WP34/35: preparing new subsystem validation and certification, enhance the current test benches to be able to test ASTP subsystems, agreeing on testing strategy for validation/certification, digital twin for braking and traction subsystem.	https://rail-research.europa.eu/wp-content/uploads/2025/02/WORKPACKAGE-1080-v4.mp4
24-27 Sept 2024	Innotrans 2024 Berlin, Germany	The Europe's Rail FP2 R2DATO project develops digital and automated technologies to improve safety, efficiency, and flexibility in rail operations while reducing costs. In partnership with SVT, CAF is testing remote-controlled and autonomous tram operations at the Holtet depot in Oslo, using modified SL18 trams equipped with sensors and connectivity. These innovations aim to boost depot efficiency and will lead to a fully autonomous tram demonstrator by the project's end.	https://rail-research.europa.eu/wp-content/uploads/2025/06/CAF_OSLO_EUROPEv02-1.mp4

9 PROCESS TO RELEASE ANY COMMUNICATION AND DISSEMINATION ACTION

The dissemination and communication actions for each WP are updated quaterly and a specific meeting of WP47 members is organized to align and prioritise these actions in case of need.
For every type of communication, the rules defined in the Consortium Agreement describe below are applied:

“As mentioned in the consortium agreement, during the Project and for a period of 1 year after the end of the Project, the dissemination of own Results by one or several Parties including but not restricted to publications and presentations, shall be governed by the procedure of Article 17.4 of the Grant Agreement and its Annex 5, Section Dissemination, subject to the following provisions. Prior notice of any planned publication shall be given to the other Parties at least 21 calendar days before the publication. Any objection to the planned publication shall be made in accordance with the Grant Agreement in writing to the Project Coordinator and to the Party or Parties proposing the dissemination within 15 calendar days after receipt of the notice. If no objection is made within the time limit stated above, the publication is permitted.

An objection is justified if:

(a) the protection of the objecting Party's Results or Background would be adversely affected, or

(b) the objecting Party's legitimate interests in relation to the Results or Background would be significantly harmed, or

(c) the proposed publication includes Confidential Information or Strictly Confidential Information (as defined in section 1.2) of the objecting Party.

The objection must include a precise request for necessary modifications.

If an objection has been raised the involved Parties shall discuss how to overcome the justified grounds for the objection on a timely basis (for example by amendment to the planned publication and/or by protecting information before publication) and the objecting Party shall not unreasonably continue the opposition if appropriate measures are taken following the discussion.

The objecting Party can request a publication delay of not more than 45 calendar days from the time it raises such an objection.

After 45 calendar days since the submission of the objection the publication is permitted, provided that the objected information of the objecting Party has been removed from the Publication as indicated by the objecting Party.

In the case the objected information has been removed within a shorter period it should be published earlier.”

After consulting the consortium members, the CO will inform the Europe's Rail Communication team of the agreed action.

10 COMMUNICATION, EXPLOITATION AND DISSEMINATION MEASURES

An effective dissemination and communication strategy will only remain effective if it is seen as an evolving and constantly developing process. FP2-R2DATO's environment will change over the life of the project and the contexts in which target audiences work will also change. This means that appropriate mechanisms will be put in place to review the progress of dissemination, communication, and the extent to which the dissemination and communication strategy is achieving its objectives. The dissemination, exploitation and communication measures are described in Appendices 1 to 6, together with the respective key performance indicators. A generic presentation of the project will be produced which will be updated as results progress and which will serve as a basis for monitoring dissemination and correcting any shortcomings in the implementation of this strategy.

It is planned to publish regularly progress reports on dissemination and communication activities (around 4 times during the project). There may be occasional reports in between.

The following progress reports are planned:

0. Status Q1 2024 - (M14), this document
1. Status report Q3 2024 (M22)
2. Status report Q3 2025 (M34)
3. Status report Q6 2026 (M46) last and final report

11 EXPLOITATION PLAN & KEY EXPLOITATION RESULTS (KER)

FP2-R2DATO partners have committed to fully exploit the project's results both during and beyond its lifetime. Exploitation and impact maximisation are conducted at two levels: collectively, through coordinated actions across the consortium, and individually, through partner-specific initiatives. As well-established organisations with strong expertise, the consortium members are well positioned to ensure the continued use and valorisation of FP2-R2DATO outcomes after the project's conclusion.

This section provides an overview of how the project results will be used and promoted to ensure long-term impact. The exploitation plan explains how project outcomes will be disseminated and transformed into practical applications by stakeholders contributing to FP2-R2DATO's objectives. It identifies target groups and entities that could benefit from the results and outlines the actions each participant should take to exploit the outcomes they own. This plan is a living document that will evolve with project progress and will be regularly reviewed within the consortium and the Steering Committee.

The first version of the exploitation plan was created during the WP47 session in March 2024 and will be updated at least twice a year to guarantee that the generated knowledge remains accessible and usable after the project ends. FP2-R2DATO also collaborates closely with other EU-Rail projects (FP1-MOTIONAL, FP3-IAM4RAIL, FP4-RAIL4EARTH, FP5-TRANS4M-R, and FP6-FUTURE) to share expertise and ensure alignment of results across programmes.

A Key Exploitable Result (KER) is defined as a major outcome of the project, such as a product, service, technology, process, standard, or dataset, that holds clear potential for use, deployment, or commercialisation. Within FP2-R2DATO, KERs are identified, tracked, and assessed to maximise the project's real-world impact and to foster further research or industrial uptake.

To harmonise and optimise the collection of KERs, a central FP2-R2DATO KER table has been established. Each entry specifies ownership, targeted stakeholders, intended use, technology readiness level, and the most suitable dissemination or exploitation approach. Initially, KERs were collected by WPL during the drafting of the 2024 Technical Report, but due to varying formats, a new, standardised table was introduced to ensure consistency across all partners.

The overall exploitation strategy focuses on transforming FP2-R2DATO's technical achievements, including innovations, prototypes, datasets, and process improvements, into tangible value for the European rail sector. Each KER's potential is evaluated based on technical readiness, market relevance, and standardisation potential. Depending on this assessment, appropriate exploitation paths are defined, such as integration into industrial solutions, contribution to European standards, open publication, or further development within partners' R&D roadmaps.

Work Package 47 coordinates the exploitation process, monitors updates to the KER table, manages intellectual property aspects, and ensures continuous tracking of technology readiness. Targeted communication and stakeholder engagement activities, including demonstrations, events, and collaborations with infrastructure managers, railway operators, and suppliers, further support the uptake of results and accelerate the transition from research to operational deployment.

Table 11: KER table to be completed by WPL

Results type	Does result have a high potential?	Audience Target Group	Steps undertaken towards exploitation	Market maturity	TRL at the end	Sensitive/ Public	Dissemiation channel	Intellectual Property Rights
SCI: Scientific Discovery	High scientific potential	Researchers	Prototyping in laboratory environment	Not yet existing and not clear if market can be created	1	Sensitive	Website	To be licensed under consortium terms
SCI: Model	High societal potential (other than climate or environmental)	Industry, Business partners	Prototyping in production environment	Market creating: not existing but potential for the creation of a new market	2	Public	Newsletter	Software copyright and proprietary license
SCI: Theory	High societal potential	Investors	Pilot, demonstration or testing	Memerging: growing demand, scarce supply	3		Blog	Released under permissive open-source license
SCI: Other	High technologic, business or economic potential	EU institutions and/or agencies	Intellectual Property management	Mature; the market is already supplied with similar products	4		Social Network	Consortium ownership with licensing terms
PROD: Product new	High policy or regulatory potential	Policy-makers and authorities, international	Licencing to third party		5		Forum	Copyrighted; licensing under negotiation
PROD: Product improved	N/A	Policy-makers and authorities, national	Complying with regulatory framework		6		Papers	
SERV: Service new		Policy-makers and authorities, regional or local	Contribution to standards		7		Article	
SERV: Service improved		citizens	Feasibility study		8			
PROC: Industrial process new		standardisation bodies	Market study		9			
PROC: Industrial process improved		Innovators	Business plan					
BUS: Business model new		End-users (practicioners,farmers etc..)	Other					
BUS: Business model improved		Education / Training organization / learners						
DSG: Design new		Research infrastructures						
DSG: Design improved		Business accelerator providers						
METH: Method new		Other						
METH: Method improved		Applicable to all						
METH: Material new								
METH: Material improved								
METH: Technology new								
METH: Technology improved								
METH: Design new								
METH: Design improved								
PO: Policy								
PO: Recommendation								
PO: Guidance								
PO: awareness								
PO: Raising								
PO/ Advocacy								
EVNT: Event (conference, seminar, workshop..)								
STAFF: Qualified personnel (qualified personnel exchnages)								
LEARN: Learning and training(learning modules, curricula)								
INFRA: New infrasture or facilities								
INFRA: Improved infrastructure facilities								
Other								

In deliverable D47.3 “Final Exploitation Strategy”, the Key Exploitable Results (KERs) will be further elaborated, detailing the concrete actions to be implemented and the organisational approach ensuring their effective exploitation.
Within D47.3, the implementation of the exploitation strategy and the use of project results will be clearly demonstrated. Specifically:

- The identified KERs will be consolidated and connected to ensure coherence across work packages.
- The stakeholders and entities interested in each KER will be clearly identified to facilitate targeted uptake and collaboration.
- The appropriate communication and dissemination channels will be utilised to guarantee that each result is effectively promoted and exploited by the relevant audiences.

This deliverable will therefore mark the transition from defining the exploitation strategy to putting it into practice, ensuring that FP2-R2DATO results are sustainably used and generate lasting impact beyond the project’s duration.

12 CONCLUSION

In conclusion, this document describes the communication, exploitation and dissemination activities envisaged during the life of FP2-R2DATO project. The aim of deliverable D47.1 is to display a dissemination and communication strategy plan including stakeholder-specific approaches and an activity timeline to maximise efficiency of the planned dissemination and communication activities.

It has been developed into three parts:

- Firstly, the communication activities going beyond dissemination: they do not only involve project results but the project in general such as the societal challenges or European added value of the project.
- The second part dissemination is to spread out the results/outputs of the project among interested parties to maximise the impact of the EU-Rail research results in the public domain and amongst all stakeholders of the rail community.
- Thirdly, exploitation will discuss the results produced in FP2-R2DATO in further activities outside of the project, with the aim of increasing the competitiveness of the railway industry and contribute to future research by enabling or supporting the deployment of new technologies and/or methods.

Four target groups have been defined: Infrastructure managers and railway operators, industry, academia, and the public. For all communication activities strong importance is given to making sure it is understandable for a wider audience by using less technical language. The main dissemination channels are the FP2-R2DATO website, EU-Rail social media channels, the EU-Rail innovation days, and peer-reviewed journals. Keeping in mind the general goal of the communication activities, which is to ensure the results of the research done in this project will be available to a wide audience.