

IP1 TRACTION TD1 AND BRAKES TD5 – PHASE 2

D10.1 Set up a dissemination and exploitation plan for the project

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REPORT CONTRIBUTORS

Name	Company	Details of Contribution
L Nicod	Alstom	Writing of all report based on partners given communications elements
TMT representative		Some comments on first draft



EXECUTIVE SUMMARY

This document provides a description of the PINTA3 dissemination plan. The aim of this plan is to provide a dissemination strategy for the project and to describe the materials and strategies that will be used to facilitate the widespread of information and knowledge of the results created by the project. The dissemination of PINTA3 is essential throughout the project's life and need to be carried out with the cooperation of all Work Packages.

First, we present materials and strategies for communicating and disseminating PINTA3 to railway stakeholders, the scientific community and the general public.

Those include: the creation of a project identity; the population of the JU S2R PINTA3 website; the production of newsletters or brochure; the organization of dissemination events; the participation to conferences; the publication of results in relevant journals; the organization of the PINTA3 mid-term conference and final Conference, the description of Fact Sheets on CO Reports. Moreover, the dissemination plan describes how expert groups will interact with the technical Work Packages and how the results will be disseminated to the Shift2Rail public-private partnership.

The Dissemination and Exploitation Plan of PINTA3 is fully in line with Shift2Rail Dissemination strategy and PINTA3 partners will be committed in communicating the main achievements of the project to the relevant stakeholders across Europe by using the most effective communication channels.

ABBREVIATIONS AND ACRONYMS

CEN: European Committee for Standardization

CENELEC: European Committee for Electrotechnical Standardization

EN: European Standard

ERA: European Railway Agency

EU: European Union

IEC: International Electrotechnical Commission

NNTR: Notified National Technical Rules

S2R: Shift2Rail

TSI: Technical Specification for Interoperability

WP: Work Package

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INTRODUCTION

PINTA3 is a project, funded by the S2R JU via the Horizon 2020 programme of the European Commission. This project has been developed as Phase 3 (after PINTA1 and PINTA2) of the work within the Technical Demonstrators Traction (TD1.1) and HVAC (TD1.8) of Shift2Rail.

The ultimate goals of TD Traction and TD HVAC are, to demonstrate a new generation of traction drive equipments and, on the other side, to test CO2 based new HVACs.

The dissemination of the project's research activities and results are fundamental components of the PINTA3 project. The dissemination objectives of this project are:

- To use the Shift2Rail web platform to facilitate wide-spread public information transfer beyond the members of the consortium.
- To ensure that the project outputs reach targeted stakeholders (railways community)

In order to address these objectives, the project has a dedicated Work Package (WP10), which will coordinate and handle the dissemination of PINTA3.

The project partners will engage in activities such as organising and participating in conferences, congresses, workshops, showcases **as well as standardisation activities** (work done in WP6)

WP10 with the collaboration of all the other partners will also work on the publication and distribution of material like scientific publications, articles, and brochures, press releases, newsletters and a website towards accomplishing dissemination of the project results to a wide range of audiences.

But of course, before any public dissemination, the consortium partners will have paid attention to the knowledge management and protection. These aspects are specifically agreed in the *Consortium Agreement* (it is a confidential document of the Consortium) *Section 8* where ownership of results, joint ownership, transfer of results, dissemination rules legally are agreed.

This document presents the dissemination and communication plan that will be followed during the lifespan of the project. It includes the available and future project dissemination materials, the events, workshops and conferences that are of particular interest to the project from a dissemination perspective, the communities targeted by the project for dissemination and liaison activities.

1. PROJECT IDENTITY

A project identity has been set at the beginning of the project including templates for presentations and reports, as well as the PINTA3 logo. The project identity will help dissemination activities and ensure a consistent communication of the project concept, objectives and results.

2. PUBLIC WEBSITE HOSTED BY S2R.ORG

A collaborative website with the Shift2Rail Joint Undertaking is existing.

The public portal is open to the public and displays the key project information, partners, results, news/events and links to the partners' institutions. All the public deliverables will be published on the website and will be available for download.

The webpage (<https://projects.shift2rail.org>) offers links to the Shift2Rail general website as well as to the mini-websites of other Shift2Rail projects.

3. ORGANISATION OF PROJECT KICK-OFF MEETING, MID TERM AND FINAL CONFERENCES

The **kickoff meeting** took place on Jan 8th 2021, after a legal start of the project on Dec 1st 2020.

A **midterm webinar public meeting** was foreseen but due to Covid major disturbance and Europe's rail JU discussions taken a lot of PINTA3 experts time and resources, it has not been organized until yet.

A **final Conference** will be organized in 2022. It will present the results of the project, a public summary on research result used for commercial markets (Traction; HVAC) and the results on the global S2R Traction TD1.1 and TD1.8. All key stakeholders in the EU rail sector (including Shift2Rail members) will be invited. The Final Conference will also provide a platform for industry experts and stakeholders to discuss the project results.

This conference will be open to anyone interested. The location will be chosen to ensure maximum participation.

The major objectives are:

- To enable other stakeholders not being directly involved in the project to be briefed on results
- To have an interactive discussion on the basis of their comments and proposals made to draft version documents and deliverables disseminated through professional associations – partners of the project
- To conclude on the future commercial implementation of the proposed solutions
- To provide guidance for further work - especially Europe's Rail JU- and for the completion of deliverables

4. DISSEMINATION AND KNOWLEDGE SHARING ACTIVITIES

Visibility of the project is crucial for a successful dissemination strategy. Project results are planned to be published through articles mainly in specialized press, scientific journals and in relevant national and international conferences and workshops. PINTA3 will actively look-out for high profile academic and industrial events that are within the domain of interest of the project. At this stage of the project, the following events are being targeted: InnoTrans 2022 (Berlin), TRA 2022 (Lisbon), WCRR 2022 (Birmingham), PCIM (power electronics), ECPE (The Power Electronics Research Network), etc.

A synthetic presentation of PINTA3 Traction TD and HVAC TD will be done at S2R Innovation Days on Dec 8th 2021. Two films (from CAF and Alstom) will be presented and questions of audience on environmental aspect of the PINTA3 innovations will be addressed

5. BROCHURE OR NEWSLETTERS

The brochure will be distributed at project workshops and conferences, where project partners will participate.

The project could also produce newsletters. The newsletters provides up-to-date information on the status and achievements of the project. The newsletter will also be uploaded on the project webpage.

6. FACT SHEETS ON CONFIDENTIAL REPORTS

All the confidential reports of PINTA3 will be briefly described thanks to fact sheets. They'll describe the publishable public information and will be uploaded on the PINTA3/S2R mini-website.

7. ARTICLES ON SPECIALISED MAGAZINES AND SCIENTIFIC PAPERS

Publication of articles on project results, best practices, and papers in industry journals, such as: Railway Gazette, IRJ, etc.

- A general article of French companies and research labs contributions and results to S2R is under construction and should be published on 2022 in the French "Revue General des Chemins de Fers"
- WP3 proposed a paper for WCRR2022 "Analyze, trends, and expectations of alternative drives technologies for low carbon energy mobility"
- WP4 presented a paper "Observation and simulation of dynamic humidity in power converters for railway applications due to moisture diffusion in plastics" in EPE 2021 (6-10th September 2021)
- WP5 provided two papers :
 - EAPPC-BEAMS "Using Electrostatic Finite Element Modelling to predict High-voltage insulation tests for Switchgear components"
 - IEE Power Electronic for Distributed Generation Systems (virtual conference 28/6-1/7 2021), "Modeling and simulation methodology for considering delamination and bonding pull out in a SiC MOSFET chip during the short-circuit phase".

REFERENCES
