







Enhancing IP4 Ecosystem

Deliverable D 12.2 Dissemination and Exploitation Plan

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1. Executive Summary

In a world where digitalisation is increasingly important for businesses and the personal life of consumers, information technology is becoming a key enabler to reinforce the attractiveness of the railway services, increase ridership, revenues and customer convenience.

The present deliverable aims to consolidate the strategy of ExtenSive to give a clear definition of the goals and gives a first attempt at setting a detailed plan for the implementation of Dissemination, Exploitation and Communication activities accomplished since the initiation of the project (1st December 2020) until the moment of creation of this document (month 10 of the project). It further creates a roadmap i.e., the objectives, tools and channels that will be adopted throughout the entirety of the project as well as a first approach towards exploitation plans.

This document will be followed up by D12.3 "Dissemination and Exploitation report" that will further outline the dissemination tools and channels established withing the project, as well as activities accomplished in this timeframe. This report is due at M26 of the project.







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2. Reference Document

Reference Number	Title
R1	ExtenSive Grant Agreement Annex I Description of Action
R2	ExtenSive Consortium Agreement

Table 1 - Referenced document







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3. Introduction

The ExtenSive project (Extending the attractiveness of transport for end users) is a part of Shift2Rail (S2R), the first rail joint technology initiative focused on accelerating the integration of new and advanced technologies into innovative rail product solutions.

ExtenSive further provides complementary and continuous solutions already started within previous projects - MaaSive (Grant agreement no. 826385) to enhance the traveller experience and improve the travel services (in the areas of travel shopping, trip tracking, booking and ticketing) aligned with Mobility as a Service paradigms and deal with Software as a Service approach.

As in other R&D projects, dissemination and stakeholder engagement is an important element of success of the ExtenSive project. This deliverable is based and consistent with the project's [R1] Description of Action (DoA) and [R2] Consortium Agreement (CA). It is the first outcome of project's Task 12.3 "Exploitation and public Dissemination" in Work Package (WP) 12 (Dissemination and Communication) and presents the activities that are to be conducted within the project to disseminate its outcomes to wider audience.

The document is outlined in 10 sections designed to properly present the overall objectives, target audience, tools, channels and materials for an effective execution of Dissemination, Exploitation and Communication activities within the entirety of the project.

Following an introduction, section 4 gives a clear overview of ExtenSive project and its core objectives.

In section 5, the terms Dissemination, Exploitation and Communication (DEC) is defined.

Section 6 describes the dissemination strategy that will be adopted throughout the lifespan of the project and proceeds with the overall timeline of the activities and elaborates on external communication, presenting the visual identity and communication tools that will be used for the successful implementation of the DEC.

Section 7 further outlines the various events/conferences that will aid in raising great awareness about ExtenSive project.

A first attempt at exploitation by individual partners is presented in section 8 and section 9 concludes the document.

Section 10 presents the appendices which includes abbreviation/ synonyms used throughout the entire document.







4. ExtenSive Project

4.1. ExtenSive in a Nutshell

ExtenSive is framed within the Innovation Programme 4 (IP4), which addresses "IT solutions for attractive Railway services" and brings together eight partners from six countries in Europe.

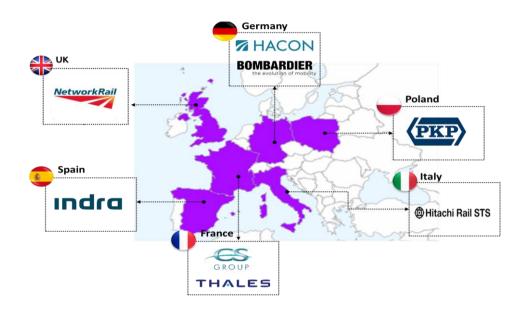


Figure 1 – Extensive Consortium and their countries

ExtenSive advances and provides additional enhancement of the current functionalities of IP4 in addition, creating synergies with the other S2R IPs to enhance services for users and operators and facilitates information flow among IP4 services and other railway systems.

ExtenSive project will make a further attempt in the development of components that supports the implementation of mobility ecosystem thereby giving the end-user (traveller) a seamless multi-modal mobility experience, and gathering various TSPs, exchange data with them using heterogeneous systems. This project will focus the efforts on delivering.

ExtenSive exudes great benefits to the Traveller, Transport Service Providers (TSP), retailers, Transport Operators (TOs). Some of these include:

- Provides Transport Operators (TOs) with greater access to data, which simply means
 that operators will be able to understand their customer-base more thoroughly and
 adapt their services accordingly. Nevertheless, attracting more use of their services and,
 therefore, increasing their revenues.
- Provides the traveller with high service quality and a seamless travel experience during multimodal travel thereby, minimising the interactions needed among travellers and the infrastructure.
- The use of mixed reality technologies will offer additional revenue opportunities for retailers, as they provide advertisement opportunities which can be utilised by stations' retailers.







4.2. Project Objectives

Objectives	Description
Prepare the S2R IP4 ecosystem for large-scale implementation, taking into consideration technical, users, business needs and requirements	ExtenSive will complement the activities already started in the previous projects to provide an integrated solution, gathering the technical as well as business achievements from the different projects to be shown within InnoTrans2022.
Prepare the S2R IP4 ecosystem to complement the activities already started in previous projects with respect to intermodal travels.	ExtenSive project WP3 and WP4 are dealing with the evolution of the activities already started within the previous projects. ExtenSive WP3 and WP4 complement work on TD4.2, TD4.3,TD4.4 on the following topics, with special emphasis on intermodality and MaaS approach: - Orchestration - Travel Shopping - Ticketing - Contractual Management Market Place
Software as a Solution	ExtenSive will provide an architecture and several services to be consumed in a Software-as-a-Service approach, specially targeted for those small TSPs registered in the ecosystem that do not have the specific capabilities (such as Journey Planning) or want to improve the ones they already have.
Security for Transport Service Providers (TSPs) and systems	The mentioned Contractual Management Market Place (CMMP) will be the tool to help TSP to configure multimodal agreements and translate them to a technical language that could be understood by other IP4 components (offer building, clearing etc). ExtenSive will pay particular attention to the management of different actors' roles, capabilities and authorisation to access to information and services from others.
Supporting the overall railway system architecture as defined by the conceptual model	ExtenSive will tighten links with other IPs and CCA (especially IP2, IP3 and IPX) to facilitate information flow among IP4 services and other railway systems, allowing the creation of enhanced services for users and operators following the Conceptual Data Model. 4 work packages within ExtenSive (WP7, WP8, WP9, WP10 respectively) are dedicated to study the overall railway system architecture as defined by the conceptual model as well as the implementation of stations management within the travel companion.

Table 2 - ExtenSive Project Objectives







5. Definitions

5.1. Dissemination

Dissemination simply defines itself as a planned process of spreading awareness about research findings, with thoughtful consideration of your target audience and communication with this target audience.

This activity involves presentation of the project's results and outcomes to a wide industrial and scientific community whilst managing knowledge within the consortium.

5.2. Exploitation

Exploitation is rightly put as an action of utilising and benefiting from resources. The aim of exploitation is to increase attractiveness using the results of the project.

It involves working closely with all Work Packages to ensure outputs are captured and partners can engage with potential customers. We are supporting partners in the development of the project outputs to yield products and services that can be implemented.

5.3. Communication

Communication on project is a strategically planned process, that starts at the kick-off of the project and continues throughout its entire lifetime, aimed at promoting the project and its results.

Communication is critical in reaching success in ExtenSive project as it will be used as a channel to inform the relevant railway stakeholders and the scientific community of the project activities and create awareness of the project among the public.







6. Dissemination Objective & Strategy

The objective of the dissemination strategy is to identify and organise the activities that will be performed within the project to: (I) Maximise the influence of the project (II) Ensure the widest possible dissemination of the project and (III) Increase the impact of the project.

With this said, it can be explained that the core objective of WP12 is to create a strong connection on the project vision, objectives and results are important tasks to promote the ExtenSive and Shift2Rail purposes.

With a consistent approach with the Shift2Rail objective, the Dissemination and Communication Work Package will address the following objectives:

- Put in place communication tools and channels to guarantee seamless exchange between partners and to have a permanent link with a large audience.
- Ensure that the outcomes of the project will be produced at time and with a high quality.
- To disseminate the project goals and results to the interested audiences.
- Organise and conduct public events to share the acquired experience and know-how of partners.
- Manage a common IP Advisory Board to collect recommendations and advices about the project requirements and solutions.
- Foster the application of search results across the industry.
- Align the search activities with the existing standards.
- To expand the adoption and maximize the impact of the ExtenSive results and S2R IP4 platform.

The Dissemination and Exploitation Plan (DEP) reports on the activities that have been carried out from the initiation of the project up until month 10 and outlines the main exploitation plans of the partners, representing a first attempt that will be updated in WP12 during the project execution.

This is a live document as all routine takes place during the entirety of the project to ensure that the project results are presented to the main target audience identified in this report.

Furthermore, the DEP recognises the following:

- Targeted Audience The beneficiaries of the work.
- Conveyed Message How these stakeholders will benefit from the work.
- Tools How to maximise reach to these stakeholders.

6.1. Target Audience

The purpose of the dissemination of this project is to raise awareness with the aim of reaching the widest audience possible. The key audience for the project is divided into 2 segments:

Internal Audience – This includes Shift2Rail consortium partners, IP4 projects and Open Calls (OCs) projects.







External Audience – This covers industry related audience (public authorities, railway associations and regulatory bodies), transport industry (Travel Service Providers & Travel Operators) and EU citizens (Travellers).

6.2. Timeline of Dissemination Activities

The timeline of the dissemination activities and events is a working document, and it is being updated by Network Rail (NR).

Figure 2 presents what the project is planning to deliver on the different dissemination materials as well as some of the planned events where ExtenSive will be showcased. We aim to present the project and attend different external event like Shift2Rail innovation days scheduled on December 2021 which is organised by the JU; TRA2022 which is a common event, will hold on November 2022 in Lisbon and IP4 projects will be presented at this event; InnoTrans 2022 which will be held in berlin on September 2022 as well as UITP Global Public Transport Summit which will hold at Barcelona in June 2023.

During the lifetime of the project, there are a couple of dissemination activities that will be created. The consortium has agreed to the design of two brochures expected in November 2021 which will entail a written project overview and a summary of the main project objectives and characteristics and another brochure will be available in August 2022 and will capture InnoTrans event.

Furthermore, three newsletters will be written and will largely focus on general information on the project and major results and achievements.

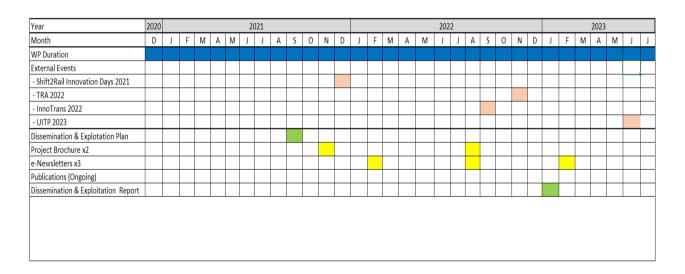


Figure 2 – Timeline of dissemination activities







6.3. Dissemination Materials

6.3.1. Identity Logo

A graphic identity logo has been designed as described in Subtask 12.3.1.



Figure 3 – Extensive Project Logo

6.3.2. Project Brochure

As agreed by the consortium, two project brochure(s) will be designed with the first to be released electronically in month 12 of the project. The main objective of the project brochure is to provide our audiences with an attractive and written project overview and a summary of the main project objectives and characteristics. The brochure presents the goals of the project and the main (expected) findings. It will be based on similar content of the website to present the project. It will be distributed by the partners and will be conveyed through their respective network.

6.3.3. Project Presentation

An official PowerPoint template was created under the responsibility of Network Rail to accommodate the required content for a complete project presentation provided by all partners. The ExtenSive official presentation will not be published on the website. However, it will be used as a tool for partners, who will be able to add further slides to the basic general presentation for their specific dissemination uses.

It is anticipated that this project presentation will be slightly modified to accommodate the relevant information for a specific event.







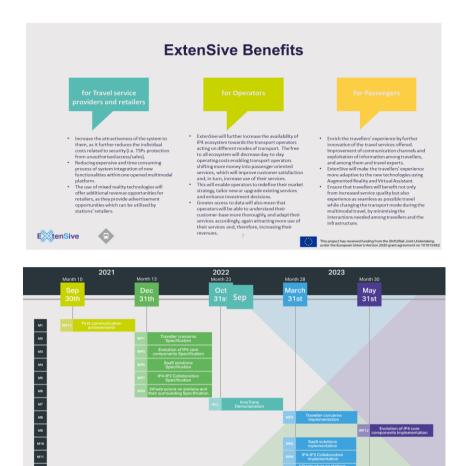


Figure 4 – PowerPoint slides from the latest version of the Project Presentation

In addition, it is important to note that all materials used for communication and dissemination purposes of ExtenSive, will demonstrate the EU emblem along with the statement that the project has received funding from the H2020 research and Innovation Programme.

6.4. External Communication

ExtenSive

We explain the different tools that will be used for communication purposes in this chapter.

6.4.1. Project Website

To ensure supreme visibility of the project objectives and results, a project website has been developed to constantly disseminate information & news about the project's activities and related area. A dedicated webpage within Shift2Rail website has been established for the project. It is safe to say that the creation of the project website achieves M1 - First communication Achievement. The website can be found following this URL:

https://projects.shift2rail.org/s2r ip4 n.aspx?p=EXTENSIVE







Furthermore, a dedicated section within the project webpage has been established for Project News & Events. This section is used to publish short news articles and announcements (such as IP4 Advisory Board meetings and participation in events).

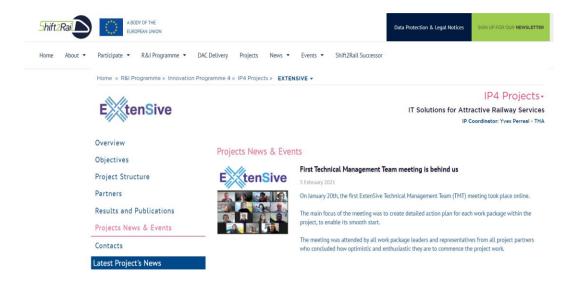


Figure 5 – Extensive Project News and Event page within shift2Rail webpage

The design of the website builds upon the following criteria:

- Visual Communication: use of colours and/or photos, web pages are easy to browse, information is kept short and links are included to websites, publications, and so on.
- Verbal Communication: the website uses simple phrasing, no jargon is used to attract the widest possible audience, e-devices are user friendly.
- Regular Updates of contents: the website is maintained and updated by Network Rail accordingly to contributions from the partners.

The public section of ExtenSive website delivers the following:

- A brief overview of the project and further details about its objectives, contents and structure.
- The confirmation of the project consortium and partners logo which links to the partners' websites when clicked on.
- Access to the project deliverables (e.g. core outputs, results, presentations, written publication).
- Information about ExtenSive events, such as TMT meetings and workshops, as well as conferences and external events where the project will have an active role (e.g. presentation of paper(s), organisation of sessions, stands with demos, etc.).

6.4.2. Project Newsletter

The consortium agreed to having three e-Newsletters, which will be created and distributed (printed or electronic version) within the lifespan of the project. A newsletter template will be prepared by Network Rail and the content will be provided by the leaders of technical work packages and will relay general information on the project and the major results/achievements. Furthermore, the content will be incorporating latest developments of the project, as well as







recent or upcoming dissemination activities, pilot activities, workshops and demonstrations, reports and publications.

Additionally, the distribution of the project newsletter will be performed via partners' communication channels as well as JU Channels lists and will be published on the website under section "Results and Publications" as it becomes available.

6.4.3. Roll-up Banner

Relevant material was created to be used for the creation of this banner. Due to COVID-19, the need for a Roll-up banner has been of lower priority to the project as all events are currently been held online. However, this will be created to match the look and feel of the website and the overall project design concept to meet the needs of the project. The banner will be created based on dissemination needs and used at all types of physical events in the future that ExtenSive partners plan to attend.

6.4.4. Publications

As a consortium, the first outstanding results from the project will be communicated in writing and published in a specialised magazine such as Railway Gazette, IRJ, RTR European Rail Technology Review, European Railway Review, Rail Technology Magazine, Passenger Magazine and also magazines indexed on scientific database (e.g. Web of Science, Scopus). A first work has been done and our plan is to at least target one or more of these publications.

6.4.5. Advisory Board

A common Advisory Board (AB) group for all IP4 projects was set up to involve a wider community of stakeholders in the project activities. This also provides a flow of bi-directional information from the project to the audience and/or among the partners of ExtenSive. This includes a mix of TSPs, Mobility Service Providers and technical experts within the rail industry.

The focal purpose of the Advisory Board is to contribute to standardisation activities and provide advice particularly on the technical aspects of the project. Furthermore, it creates the prospect for a transfer of knowledge between sectors.

To this effect, the following are to be exercised between ExtenSive partners and the Advisory Board:

- The Advisory Board will provide expert advice and recommendations on specific matters in the mobility sector. This will aid in the enhancement of the overall quality of research being carried out by ExtenSive. Project topics will be shared with all stakeholders at a European level.
- Internal (consortium partners) and External (Advisory Board) will hold bi-yearly summits (due to COVID-19, meetings are online).
- Inform ExtenSive partners about new and emerging issues that might impact the project work.







- Partners provide the AB with project reports for review purpose.
- The AB shall provide feedback on submitted reports by completing an online feedback form which is located on www.zoho.com.
- The same Advisory Board members will be required to provide expert advice on valuable and close related topics from different projects depending on the selected area.
- Provide a wide range of perspectives and facilitate stakeholder engagement across the railway and transportation sector.
- The Advisory Board members will be required to offer their perspectives to dissemination activities.
- Communicate the work of the ExtenSive project to internal and external stakeholders.
- ExtenSive project will actively seek new collaborations with external partners, to seek and integrate additional ideas and to prove the outcomes of ExtenSive.

Since the initiation of ExtenSive project, the following events have occurred:

- ExtenSive project has held its 1st Advisory Board summit on 12th May 2021.
- 11 active members make up the common Advisory Board so far.







7. Fvents

7.1. Objectives

The most effective way to disseminate results is through the attendance of congresses and events. This could be done at different levels:

- At consortium level: all consortium partners will be responsible for these activities, including preparation of material, budget for attendance, and representation at conferences. CS Group, as coordinator of the project and Network Rail as WP12 leader, will be the presenters for general project presentations, supported by the rest of partners in technical workshops. Normally ExtenSive will attend these events, together with other IP4 and S2R projects and coordinated by S2R (such as InnoTrans).
- At partner level: partners are also encouraged to participate in events and disseminate the project at individual level.

7.2. Participation in Events

ExtenSive partners will continuously identify and take part in local (national), EU, and international level conferences, industry fair events and exhibitions as appropriate to raise ample awareness around the ExtenSive project activities, expected results and disseminate the relevant developments & outcomes.

7.2.1. Events for EXTENSIVE 2021 and beyond

Table 4 provides a list of indicative relevant upcoming events that we aim to present the project at. This list will be continuously updated and extended and further communicated with all ExtenSive partners to plan participations in upcoming events. The dissemination through these events will be customised based on the project's main target audience (railway association/transport experts).

Event/ Conference	Date	Target audience	Partner
Mobility Summit 2021 (Germany)	20 TH -22 ND April 2021	Industry, Customers	HACON
LAVAL VIRTUAL	7 TH – 9 th July 2021	Transport experts	CS GROUP
TRAKO (Poland)	21 ST September 2021	All interested in railway, International audience.	РКР
Shift2Rail Innovation Days	9 th – 10 th December 2021	All interested in railway, International	ALL







		audience.	
INNOTRANS 2022 (Berlin)	SEPTEMBER 2022	All interested in railway, International audience.	ALL
TRA 2022	14 TH -17 TH November 2022	All scientists and other interested in transport.	ALL
UITP Global Public Transport Summit 2023	4 TH -7 TH June 2023	All interested in railway, International audience.	ALL

Table 3 – Upcoming Events for ExtenSive

7.2.2. Indicative Events

The following are a list of suggestive events that we plan to present ExtenSive.

- ITS Spanish Congress
- Digital Transportation Days
- Future of Transportation World Conference







8. Exploitation Plan

The Exploitation Plan (EP) has the objective to define the strategy to increase the influence of the proposed solutions for innovative IT tools and prepare the transition towards industrial and commercial uptake to fully achieve the expected impact. Here, ExtenSive partners explore the first steps at exploitation that will be updated throughout the life of the project.

8.1. Exploitation Plan Per Partner

The following tables briefly outlines the mains exploitation plans of individual partners, representing a starting point that will be updated in WP12 during the project execution.

	Bombardier Transportation (now part of Alstom Group)			
Related	Multimodal Orchestration	New product	Existing	
Product(s)	(MASTRIA)	or existing?		
Description of	MASTRIA is Alstom's multimodal	orchestration an	d passenger flow tool	
the product &	allowing optimization in capacity	utilisation, dwell	I time and adjusting	
improvement	multimodal transport offers to p	assenger demand	l. Through Extensive	
resulted from	project, WP7 and WP8 aims at b	ridging data exch	ange between	
Extensive work	passenger counting data along w	ith other open da	ata to the TMS	
	(Traffic Management System) data allowing for a better optimization			
	of traffic through adjusted schedules and timetables but also			
	enhancing MASTRIA capability of passenger information through a			
	more real time recommendation-based system for multimodal offers			
	based on dynamic TMS schedules and timetables			
Target	Transport Service Providers, Public Transport Operators, Public			
Customer	Authorities and cities			
Distribution	B2B			
Channel				
Expected	Increased passenger satisfaction, more fluid passenger journey limiting			
Impact	impacts on disruptions, improve operations for operators			
Exploitation	Low TRL, lab-based Proof of concept that can be showcased at			
activities during	upcoming events with some defined KPIs for demonstrations.			
project lifetime				

Table 4 - Bombardier's Exploitation Plan

	CS GROUP France		
Related Product(s)	Location Based	New product or	Existing
	Experience Editor	existing?	
	(Inscape)		
Description of the	INSCAPE is a new-generation authoring tool enabling non-		
product &	programmers to create Mixed Reality experiences such as		
improvement	interactive visits, location-based applications, and pervasive		
resulted from	games featuring augmented reality as well as mobile		
ExtenSive work	technologies. This tool is	not specifically de	edicated to the travel







	market, but addresses different markets such as the industrial, construction or entertainment markets. New concepts for the support of mixed reality devices are carried out within ExtenSive project to provide dedicated messages or instruction, to provide real time navigation instructions. This work will help the creation of MR experiences their publication on AR devices and their connection with the Travel Companion devices.
Target Customer	TSPs, station managers, cities or companies that want to provide Location based experiences in MR to the travellers.
Distribution Channel	B2B
Expected Impact	Increase customer satisfaction, promote local business or cities.
Exploitation activities during project lifetime	Provide the solution to be tested by the OC during the IP4 project life, to progress again the state-of-the-art and maintain the company leadership in the field of design tools for various applications by extending its INSCAPE flagship product for AR travel experience production. This will enable CS to continue its successful commercial development. Communication, marketing and exploitation of these features will be integrated to the sales process of INSCAPE.

	CS CROLID France		
	CS GROUP France		
Related Product(s)	TSP Orchestration and	New product	Existing
	supervision Tool	or existing?	
	(CRIMSON)		
Description of the	The TSP orchestration an	d supervision too	is a desktop tool that
product &	enables actors to collabo	rate to collectively	y create a station map
improvement resulted	and POI to be used for n	avigation purpose	es in normal situation
from ExtenSive work	or for crises and disasters	s. It provides a sys	tem:
	simulated emerge send specific mes	e organisations, d ency (crowded sta sages to travellers eness capabilities	efine a plan during a tion, disaster) and s. to provide end users
	Within ExtenSive, the too to the IP4 capabilities allo enabling the communicate responsible of the surveil travellers using the TC PA	owing TSPs to add tion link between llance of the scree	their POIs and by the TSP that is







Target Customer	TSPs, station managers
Distribution Channel	B2B
Expected Impact	Providing a situation awareness tool for network monitoring
	and travellers' communication.
Exploitation activities	Provide the solution to be tested by the OC during the IP4
during project lifetime	project life. We will then build upon the knowledge acquired
	into this project and use it for other European projects about
	crisis management that can benefit from the CRIMSON
	software.
	This will enable CS to continue its successful commercial
	development.

	CS GROUP France		
Related Product(s)	MobilitX	New product or existing?	Existing
Description of the	MobiltX is a set of produc	cts that aims to pr	ovide the passengers
product &	of multimodal transport i	networks with rea	al-time,
improvement	comprehensive and relial	ole information, a	head of time and
resulted from	during the travel.		
ExtenSive work	The MobilitX Hub is a key	component of th	ne pTT Solution
	provided by CS Group Fra	ince to the IP4 en	vironment.
	Extensive aims at extendi	_	
	the project, produced wit	•	• .
	first experimentation atte	•	lation and delivery of
	a MobiltX based solution "as a Service".		
Target Customer	TSP		
Distribution Channel	MobilitX is sold worldwide on online sites or through CS Group France.		
Expected Impact	Extensive helps CS Group France being able to provide		
	customers with a highly scalable, automatically updated, and cost-efficient deployment solution for the MobilitX products,		
	and allow smaller TSPs to alleviate from the maintenance of an		
	"on premise" software platform.		
Exploitation activities	Results of the Extensive project will provide a first technical		
during project lifetime	validation of the ability for the MobilitX products to be		
during project metime	delivered through SaaS deployment.		
	In parallel with the Extensive project lifetime, other "on		
	premise" to "SaaS" experimentations will be performed on the		
			•
	MobilitX products, and will benefit from the Extensive feedback The long-term goal is for CS Group to be able to provide its		
	customers with a full SaaS MobilitX product line.		
	customers with a full saas Mobility product line.		

Table 5 – CS Group's Exploitation Plan







	Hacon		
Related Product(s)	Navigator Lib	New product	Existing
		or existing?	
Description of the	Improvement of a modul	e that shows a ma	ap providing locations
product &	and POIs to travellers. We	e will focus our w	ork on the
improvement	integration of an intelligent level of number of objects		
resulted from	according to the zoom level, importance of objects and other		
ExtenSive work	factors.		
Target Customer	Companies that want to create their own application		
Distribution Channel	B2B		
Expected Impact	Increased customer satisfaction and easier navigation.		
Exploitation activities	Experience with integrating improved functionality to App and		
during project lifetime	test within the Open Call	Pilots.	

	Hacon		
Related Product(s)	HAFAS Smart VMS	New product	Existing
		or existing?	
Description of the	Hacon's computer-based	vehicle managen	nent system HAFAS
product &	Smart VMS gathers real t	ime data that gua	rantee
improvement	comprehensive, up to the	e minute passenge	er information and
resulted from	reliable connections betv	veen bus and rail.	Additionally, HAFAS
ExtenSive work	Smart VMS also performs	data administrat	ion, processing, and
	archiving in the control co	entre. As a result,	travellers can easily
	keep track of any irregula	rities in operation	ns. This is possible
	through a journey planner, app installed on their smartphone.		
	The product will be integrated into the S2R ecosystem and		
	provided as SaaS to the TSPs.		
Target Customer	Public transport companies, Operators of MaaS platforms		
Distribution Channel	B2B		
Expected Impact	Providing SaaS to Public transport companies to increase user		
	satisfaction by providing	updated timetabl	e data through real
	time information.		
Exploitation activities	Experience with providing SaaS to the S2R ecosystem and		
during project lifetime	selected Open Call Pilots.		

	Hacon			
Related Product(s)	HAFAS timetable	New product	Existing	
	information system	or existing?		
Description of the	The HAFAS timetable info	The HAFAS timetable information system helps passengers to		
product &	always be up to date on their connections. Combination of			
improvement	different means of public and private transport are included.			
resulted from	The product will be integrated into the S2R ecosystem and			
ExtenSive work	provided as SaaS to the TSPs.			
Target Customer	Public transport companies, Operators of MaaS platforms			
Distribution Channel	B2B			







Expected Impact	Providing SaaS to Public transport companies to increase user satisfaction by providing updated timetable data through real time information.
Exploitation activities during project lifetime	Experience with providing SaaS to the S2R ecosystem and selected Open Call Pilots.

	Hacon		
Related Product(s)	eos.ticketingSuite	New product	Existing
		or existing?	
Description of the	The mobile ticketing solu	tion developed by	/ eos.uptrade, a
product &	Hacon subsidiary, ensure	s an easy and fast	mobile ticket
improvement	purchase for the custome	er. The highly flexi	ble solution allows
resulted from	the integration of multipl	e payment servic	e providers, a wide
ExtenSive work	range of different fares a	nd tariffs can be c	lisplayed, and
	relevant novel mobile pa	yment options are	e implemented. The
	ticketingSuite is ready for and forms the backbone of Hacon's		
	automated mobile ticketing solution – a GPS-based Check-/Be-		
	in/Check-/Be-out system for a seamless intermodal travel		
	experience. The best price function calculates the lowest price		
	for the passenger and makes it easier and more attractive to		
	use.		
Target Customer	Public transport companies, Operators of MaaS platforms		
Distribution Channel	B2B, App Stores		
Expected Impact	Extension to an intermodal best price solution for higher		
	attractiveness for customer and user.		
Exploitation activities	Experience with the implementation of additional means of		
during project lifetime	transport for best price c	alculation.	

Table 6 – Hacon's Exploitation Plan

	Hitachi Rail STS		
Related	Multimodal DSS	New product	Existing
Product(s)		or existing?	
Description of	The Multimodal DSS (Decision Sเ	ipport System) ai	ms at supporting
the product &	TSPs for the management of mu	ltimodal transpor	t operations.
improvement	Experience with the implementa	tion of a DSS for	the mitigation of
resulted from	impacts related to maintenance	activities and ass	ets degradation has
Extensive work	been developed within CONNEC project will enrich the developed manage multimodal scenarios, the system able to react to events are efficient way. The developments and novel act project will be incorporated in Hamber technologies and subsystems like	I solution fostering frough an improvend disruptions in a nievements perfo itachi Rail STS tra	ig its capability to yed decision-making an effective and rmed within the nsportation







Target	STS transportation technologies improvement for TSPs
Customer	
Distribution	B2B
Channel	
Expected	Optimized disruption management in order to offer a more reliable
Impact	service and consequently increase travellers' satisfaction.
Exploitation	STS will build upon the knowledge acquired into this project and use it
activities during	for internal development and for other European projects.
project lifetime	

Table 7 – Hitachi's Exploitation Plan

	Lada		
	Indra		
Related	Web Front Travel Companion	New product	Existing
Product(s)		or existing?	
Description of	The Web Front Travel Companion can be used from a browser either		
the product &	from a computer or from a smartphone in order to be able to be used		
improvement	by more clients. The developme	nt of this compon	ent was carried out
resulted from	in MaaSive providing an initial se	t of functionalitie	s that provided an
Extensive work	initial experience of the S2R-IP4	ecosystem.	
	In ExtenSive, the improvement of the Web Front Travel Companion will		
	be focused on the integration of new functionalities that extend the		
	scope achieved in MaaSive in order to provide a full experience of the		
	S2R-IP4 ecosystem.		
Target	Companies that want to offer MaaS functionalities from a browser		
Customer			
Distribution	B2B		
Channel			
Expected	Increased flexibility and customer satisfaction.		
Impact			
Exploitation	Experience with integrating improved functionality of IP4 environment		
activities during	and test within the Open Call Pilots.		
project lifetime			

	Indra		
Related	Token Generator	New product	Existing
Product(s)		or existing?	
Description of	Token Generator is a tool that ca	n generate tokens	s and ETE. From either
the product &	token from the TSP or the Contr	act Data and the I	Metadata structure, it
improvement	is able to provide Token that follows the Metadata structure with the		
resulted from	Information provided by the TS	P or the ETE itself	f in different formats.
Extensive work	This tool can be used by Operators that do not have the capacity to		
	generate digital embodiments.		
	Indra's Token Generator provide	es Digital Embodi	ment Entitlements to
	TSP that do not have such ca	pacity, it helps T	SP to digitalise their







	systems. The product will be integrated into the S2R ecosystem and
	provided as SaaS to the TSPs.
Target	Public transport companies, Operators of MaaS platforms
Customer	
Distribution	B2B
Channel	
Expected	Providing SaaS to Public transport companies to increase their
Impact	digitalisation capabilities.
Exploitation	Experience with providing SaaS to the S2R ecosystem and selected
activities during	Open Call Pilots.
project lifetime	

	Indra		
Related Product(s)	СММР	New product or existing?	Existing
Description of the product & improvement resulted from Extensive work	The CMMP (Contractual Managereated in the Co-Active project, management of agreements and Active the main functionality multimodal discounts that take parties, and after that, a "contract the contract are considered at I time in the case of discount. Within MaaSive, it was decided component to be also the basis (MP), which will be considered by at shopping or issuing time. In ExtenSive, CMMP will increasing the sand capabilities to the use flexibility of the component and with different capacities depend represents.	intending to facilinong TSP of the was to allow to blace when both Teeds to be accepted it established, P4 processes, such to take advantation of the creation by other components of the CMMP. It will create distance to the components of the CMMP.	litate the creation and IP4 ecosystem. In Cochat two TSP create TSP are involved in the oted by the involved and the conditions of the as at offer building of Mobility Packages ents of the ecosystem introducing different This will increase the fferent types of users
Target Customer	Operators of MaaS platforms, Pu	ıblic institutions	
Distribution Channel	B2B		
Expected Impact	Public institutions would provide implementation of MaaS enviror	•	foster the
Exploitation activities during project lifetime	Enhancement of the component with selected Open Call Pilots.	and feedback fro	om the experience

	Indra		
Related	CRM	New product	Existing
Product(s)		or existing?	







Description of	Customer veletionship menagament (CDM) is a seminary to menaga
Description of	Customer relationship management (CRM) is a component to manage
the product &	operator interaction with its customers focused on Transport
improvement	operations. It uses data the customers' data registered in the ecosystem
resulted from	to improve business relationships with customers, specifically focusing
Extensive work	on customer satisfaction.
	In Extensive, CRM will increase flexibility by introducing different rights
	and capabilities to the users of the CRM. This will increase the flexibility
	of the component by creating different types of users with different
	capacities. The objective of implementing different roles in the
	ecosystem is to separate the rights and accesses to the information that
	is collected by the ecosystem depending on the nature of the user.
Target	Public transport companies, Operators of MaaS platforms
Customer	
Distribution	B2B
Channel	
Expected	Extension to the CRM developed in MaaSive to improve the flexibility
Impact	and privacy of the component for customer and user.
Exploitation	Experience with the implementation of new hierarchy within the
activities during	component and selected Open Call Pilots.
project lifetime	

Table 8 – Indra's Exploitation Plan

	Network Rail	
Related	N/A	New product N/A
Product(s)		or existing?
Description of	ExtenSive WP7 has analysed seven	eral scenarios to develop some use
the product &	cases that could be used to dem	onstrate the IP2-IP4 Synergy. Within
improvement	Network Rail's R&D programme	"Target190plus", there may be an
resulted from	opportunity to reuse these use o	ases and their findings in part or in
Extensive work	whole within the development of our projects.	
Target	Public transport companies, Ope	rators of MaaS platforms
Customer		
Distribution	Implementation through development channels	
Channel		
Expected	To be determined	
Impact		
Exploitation	Shared awareness through other	R& D projects within Networkrail
activities during		
project lifetime		

Table 9 – Network Rail's Exploitation Plan







	PKP S.A.		
Related	APIS	New product	Existing
Product(s)		or existing?	
Description of	The main serious problem will b	e the creation an	d updating of the ICT
the product &	environment. The project will all	low for the develo	opment - ensuring the
improvement	management of MS manageme		•
resulted from	passenger information. The proj		
Extensive work	that routed between these points on the site that have now been replaced in terms of the status of the station vehicles that are taking place. The emerging dictionary of audio description of standardized standards of the line of the blind or visually impaired with IT systems. We will help you design immensely that you will be able to create data from various sources and improve quality of improving quality and timeliness. This is essential for passengers to provide information of the required quality.		
Target Customer	Public transport companies		
Distribution	B2B		
Channel Expected	The project will allow for the dev	velonment of con-	struction standards in
Impact	the future, to adapt them to the developed in the ExtenSive project be a starting point for further excombined data to develop solutitype tool aimed at achieving gre	navigation solution ect. At the same to pansion of the sco ons and mechanis	ons that will be ime, the IRES tool will ope of collected and sms like the Big Data
Exploitation activities during project lifetime	N/A		

Table 10 – PKP's Exploitation Plan

	THALES PORTUGAL		
Related	APIS	New product	Existing
Product(s)		or existing?	
Description of	APIS system aims to provide Pas	senger Information	on to several types of
the product &	transportation, but mainly Main	Line (Rail) and Ur	ban (Metro and Light
improvement	Rail). This differentiation derives	from technical a	nd strategic specifies.
resulted from	Technically, the Main Line projects are more complex and resource		
Extensive work	demanding, having more sophisticated Production Plans and Transit		
	Management Systems, contrary to Urban transports that are more		
	straight forward. From the strategic perspective, urban solutions are		
	being deployed along-side with other ISCS integrated applications		
	providing an Urban Transport ec	osystem	
Target	Public transport companies		
Customer			
Distribution	B2B		







Channel	
Expected	The Collaborative space tolls are expected to allow the generation and
Impact	management of new network information provided by the travellers.
	This information may be used to improve the information provided to
	the traveller in-station or through digital channels.
Exploitation	Collaborative space trolls are to be tested within Shift2Rail project
activities during	pilots. Depending on the results of the development and tests, these
project lifetime	tools may be integrated on the APIS product line or other new
	products related to mobility.

Table 11 – Thales' Exploitation Plan







9. Conclusion

Dissemination and stakeholder engagement is key to the success of this project and all IP4 and Shift2Rail initiatives.

This deliverable presents a thorough plan relating to the Dissemination and Communication activities of ExtenSive carried out since its initiation up until month 10 of the project, with the aim of raising awareness of the project objectives and outcomes achieved until now.

It also provides a roadmap of activities that will be followed throughout the lifetime of the project, taking strongly into consideration that it is not a standalone project but part of a wider programme as S2R, and should be completely aligned with the S2R activities and dissemination guidelines. Consequently, some of the dissemination activities mentioned throughout the document will be accomplished together with other IP4 projects (for example, other IP4 projects will have opportunity to participate at ExtenSive Mid – Term event in 2022).

Furthermore, it is important to note that the Dissemination & Exploitation Plan will be updated constantly and accurately throughout the lifetime of the project.

A final Deliverable D12.3 Dissemination and Exploitation report (month 26) will provide a comprehensive summary on the outcomes of the entire Dissemination, Exploitation and Communication activities that are exercised throughout the ExtenSive project.







10. Appendices

10.1. Abbreviations & Acronyms

Abbreviation/Acronym	Description
AB	Advisory Board
DEC	Dissemination, Exploitation and Communication
DEP	Dissemination and Exploitation Plan
GA	Grant Agreement
IP	Innovation Programme
IT2RAIL	Information Technology for Shift2Rail
OCs	Open Calls
S2R	Shift2Rail
ТО	Transport Operator
TSP	Transport Service Provider
WP	Work Package

Table 12 – List of Abbreviations/Acronyms