

# S2R X2Rail-5 (Adaptable Communication System) and synergies with AB4Rail project

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## Antitrust Statement

While some activities among competitors are both legal and beneficial to the industry, group activities of competitors are inherently suspect under the antitrust/ competition laws of the countries in which our companies do business. Agreements between or among competitors need not be formal to raise questions under antitrust laws. They may include any kind of understanding, formal or informal, secretive or public, under which each of the participants can reasonably expect that another will follow a particular course of action or conduct. Each of the participants in this initiative is responsible for seeing that topics which may give an appearance of an agreement that would violate the antitrust laws are not discussed. It is the responsibility of each participant in the first instance to avoid raising improper subjects for discussion, notably such as those identified below.

It is the sole purpose of any meeting of this initiative to provide a forum for expression of various points of view on topics (i) that are strictly related to the purpose or the execution of the initiative, (ii) that need to be discussed among the participants of the initiative, (iii) that are duly mentioned in the agenda of this meeting and (iv) that are extensively described in the minutes of the meeting. Participants are strongly encouraged to adhere to the agenda. Under no circumstances shall this meeting be used as a means for competing companies to reach any understanding, expressed or implied, which restricts or tends to restrict competition, or in any way impairs or tends to impair the ability of members to exercise independent business judgment regarding matters affecting competition.

As a general rule, participants may not exchange any information about any business secret of their respective companies. In particular, participants must avoid any agreement or exchange of information on topics on the following non-exhaustive list:

- Prices, including calculation methodologies, surcharges, fees, rebates, conditions, freight rates, marketing terms, and pricing policies in general;
- any kind of market allocation, such as the allocation of territories, routes, product markets, customers, suppliers, and tenders;
- production planning; marketing or investment plans; capacities; levels of production or sales; customer base; customer relationships; margins; costs in general; product development; specific R&D projects;
- standards setting (when its purpose is to limit the availability and selection of products, limit competition, restrict entry into an industry, inhibit innovation or inhibit the ability of competitors to compete);
- codes of ethics administered in a way that could inhibit or restrict competition;
- group boycotts; validity of patents; ongoing litigations.

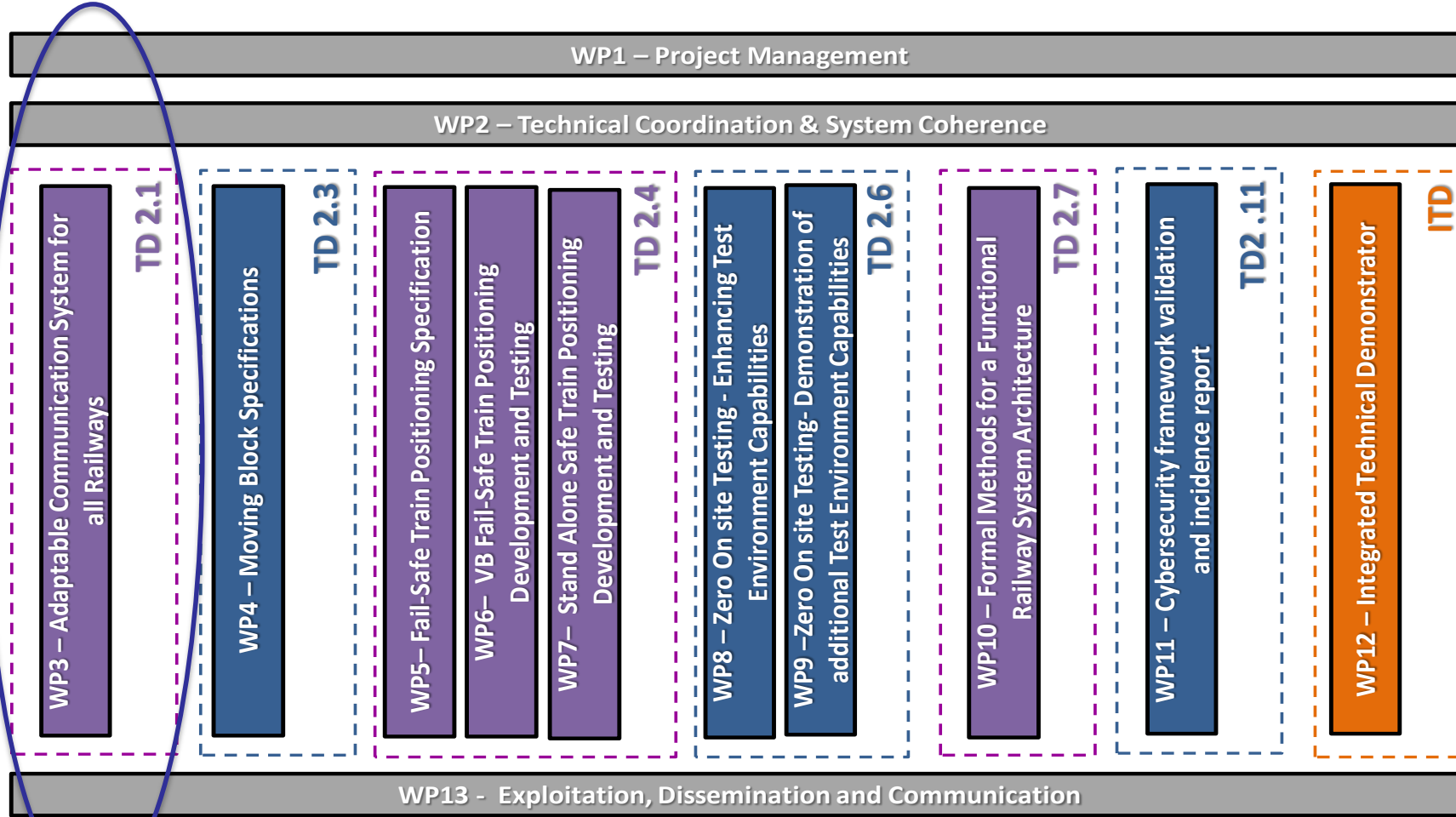
1 X2R5 - WP Overview

2 X2R5 - WP3 Planning

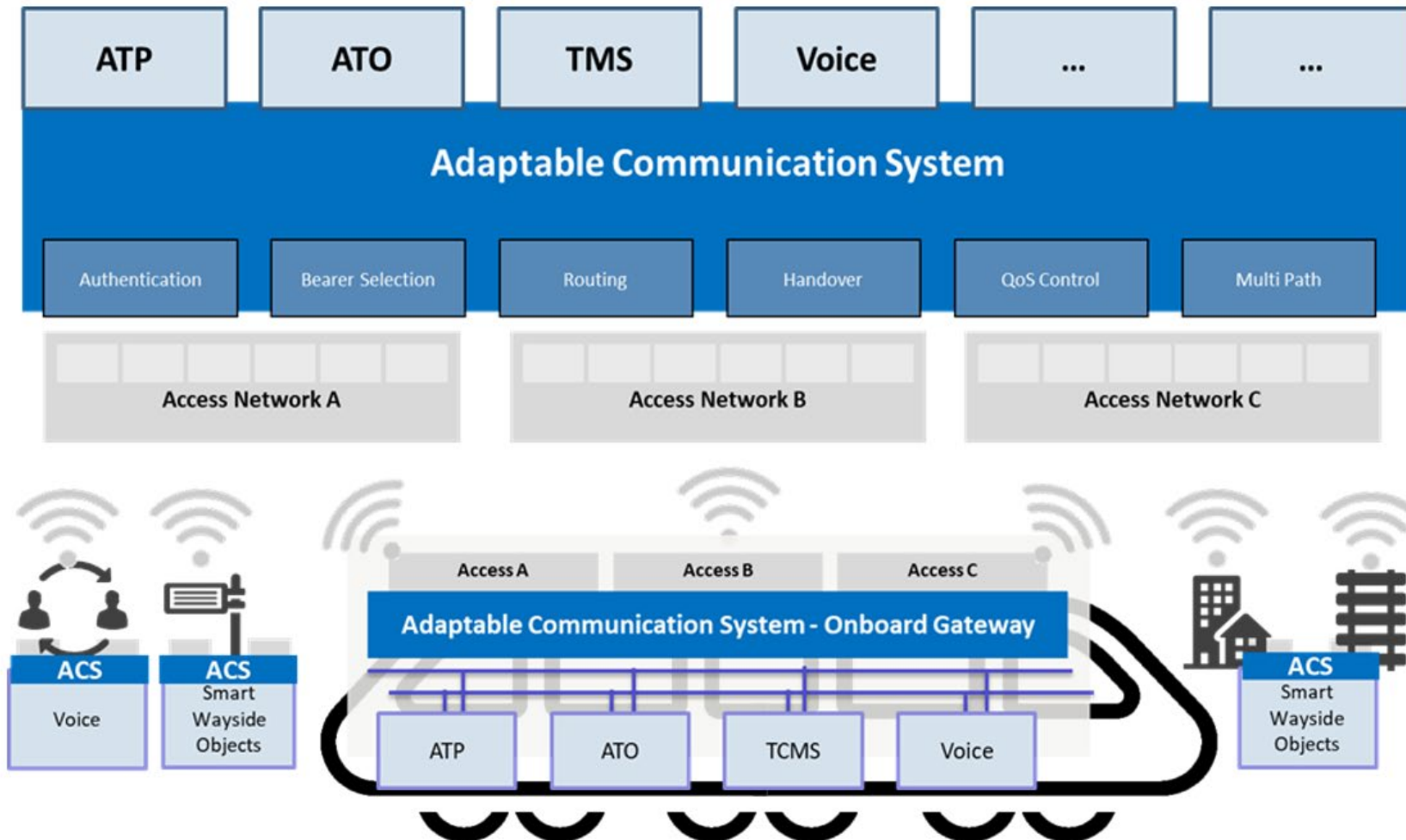
3 WP3 Tasks

4 Objectives - Synergies

# WP-Overview



# Adaptable Communication System



# Overall WP3 Planning within X2Rail-5

WPs/ Tasks	Year	LEADER	DURATION	From M to M	Project Duration																														
					2020	2021												2022												2023					
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
					Deliverables ▲																														
<b>WP3</b>	<b>Adaptable Communication System for all Railways</b>	<b>KONTRON</b>	<b>30</b>	<b>1</b>	<b>30</b>																														
Task 3.1	Technical Coordination and System Integration	KONTRON	30	1	30																														
Task 3.2	User Requirements, Business Model and Guideline for choice of Technology updates	NR	30	1	30																														
Task 3.3	Specification of the Communication System	KONTRON	30	1	30																														
Task 3.4	Update of Prototypes and Demonstrators for Fields Tests	KONTRON	30	1	30																														
Task 3.5	Technology Demonstrator Field Tests	KONTRON	30	1	30																														
						▲ D3.2												▲ D3.1&D3.3&D3.4																	

## Deliverables

- D3.1 : System Specification Update (due M30)
- D3.2 : Field Test Plan (due M12)
- D3.3 : Field Test Result Report (due M30)
- D3.4 : Field Test Result Summary (due M30)

## Milestones

- MS 2: Test Track description and availability plan (M6)

# Tasks of WP3

## Task 3.1 – Technical Coordination and System Integration

## Task 3.2 - User Requirements, Business Model and Guideline for choice of Technology updates

- Target of this task is to stay in sync with the requests coming from the other TDs, IPs, Open Call (AB4RAIL), external projects and to update the documents if needed accordingly

## Task 3.3 - Specification of the Communication System

- Same as for Task 3.1 - Target of this task is to stay in sync with the update of the User Requirements from the other TDs and IPs, external projects
- Input from AB4RAIL and Results from the field tests (Task 3.4 and 3.5)

## Task 3.4 - Update of Prototypes and Demonstrators for Field Tests

- Prototypes need to be prepared for the field tests and maybe needs to be updated related to the test plan defined

## Task 3.5 - Technology Demonstrator Field Tests

- 3 field tests are planned
  - High Speed / Mainline Field Tests (test track not defined currently) - Demonstrator Leader Thales
  - Regional / Freight Field Tests planned with RFI in Italy – Demonstrator Leader Hitachi
  - Urban/Suburban Field Tests planned with Network Rail in UK – Demonstrator Leader Siemens Mobility

# Objectives - Synergies

## X2R5 WP3 Main Objectives

- Focus within X2Rail-5 is on the field tests of the technical demonstrators of the ACS
- Based on the results of the field tests the major specification documents will be updated
  - System Specification of the ACS
  - Guideline of Technology
  - User and System Requirement Specification of the ACS

## Synergies with AB4RAIL

- Results from AB4RAIL will feed the Update of the System Specifications
- Results from AB4RAIL will feed the Update of the Guideline of Technology
- Results from AB4RAIL could influence field test set-up
- Field results could prove results from AB4RAIL

**=> ACS together with AB4RAIL will give input to UIC Project FRMCS and related standardisation**

Monthly collaboration call set-up starting on March 1<sup>st</sup> between AB4RAIL and X2R5-WP3 experts. Good cooperation start already.



# Thank you

Any questions?