



2026 FRMCS Deployment Questionnaire

Information Session

24 June 2026



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Introduction

European FRMCS Deployment Subgroup



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Presentation

- EU-Rail Deployment Group
- Recap 2025 Questionnaire
- 2026 FRMCS Deployment Questionnaire

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1. Introduction





DELIVER AN **INTEGRATED EUROPEAN RAILWAY NETWORK BY DESIGN**



DEVELOP A **UNIFIED OPERATIONAL CONCEPT AND A FUNCTIONAL SYSTEM ARCHITECTURE** FOR INTEGRATED EUROPEAN RAIL TRAFFIC AND CCS/AUTOMATION



DELIVER A **SUSTAINABLE AND RESILIENT RAIL SYSTEM**

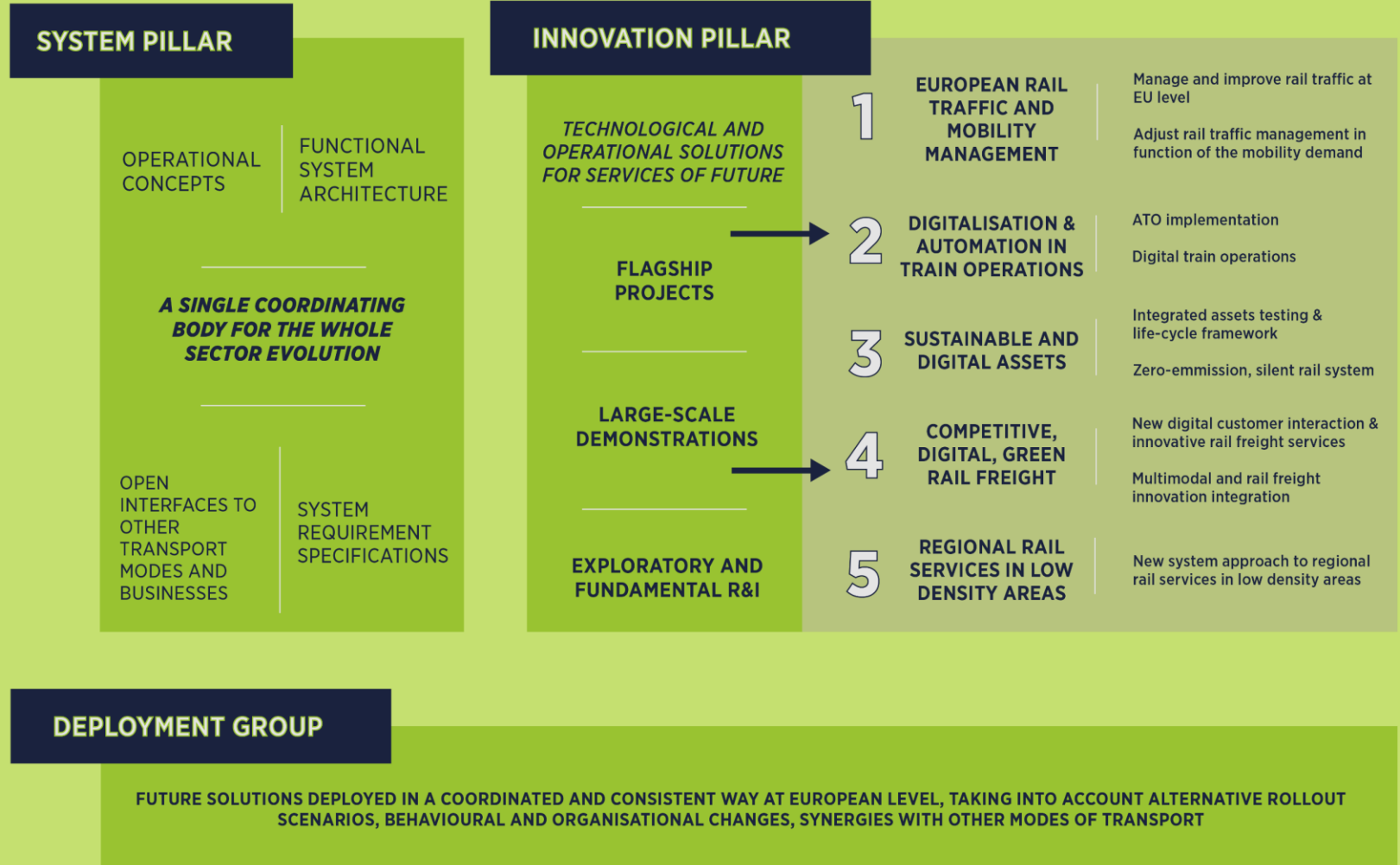


DELIVER A **COMPETITIVE, GREEN RAIL FREIGHT FULLY INTEGRATED INTO THE LOGISTICS VALUE CHAIN**



DEVELOP A **STRONG AND GLOBALLY COMPETITIVE EUROPEAN RAIL INDUSTRY**

EUROPE'S RAIL: ONE INTEGRATED R&I PROGRAMME



EU-Rail contribution to FRMCS development

- System Pillar Steering Group adopted radio report on 23 October 2025
 - Report on FRMCS V2 and V3 Scope and Planning – Version 2.4
 - Support to ERA authorisation process
- MORANE2
 - Progress report UIC (coordinator)
 - Test specifications planned to be delivered in April
 - Based on V2.2. specs.
 - FRS (cf radio report scope) ready. SRS work in progress -> stable version needed for gap analyses and start testing
 - SRS specs in Morane2 -> stable (gap) analyses needed for EECT Process
 - EECT V3p process will start in parallel, November 2026
- Future European R&I and Deployment initiative
 - Paper on future partnership
 - Annexes on 4 flagship initiatives
- Stakeholder Alignment Group
- FRMCS Deployment Group



European FRMCS Deployment subgroup

EU-Rail FRMCS Deployment Group

Provide advice and recommendations to the High-Level Deployment Group and sector on the best way to deploy FRMCS (business driven: cost efficient, simple, fast)

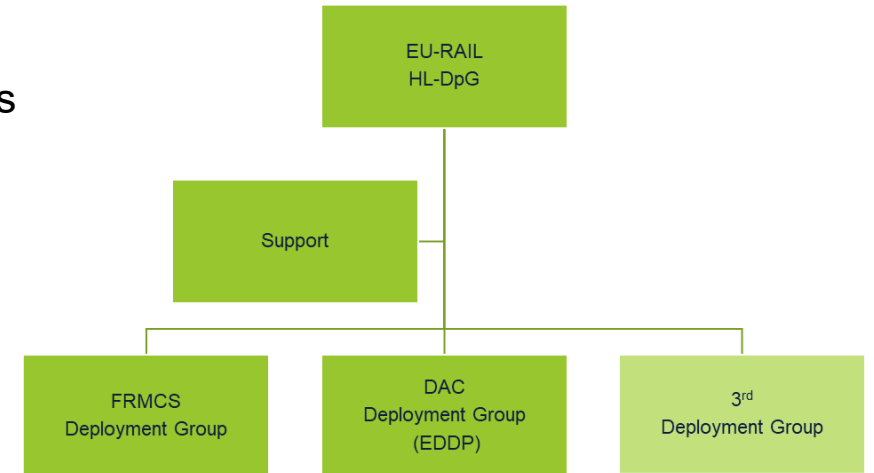
Deliverables

- Analyse (current) Infra, rolling stock, industry and workshop capacity for (fast, easy and cost effective) deployment. Estimate necessary capacities
 - Support to accelerate and simplify authorisation,
 - Perform cost analyses, CBA and risk assessments
 - Develop toolbox with diverse migration scenario's (greenfield and brownfield situations)
 - Provide dedicated cross-border (installation) alignment analyses and public-private mobile network interface analyses
 - Alignment with other major Rail programmes (ERTMS, DAC, ...) and stakeholders
-
- Implementation programmes are and stay responsibility of RUs/IMs/lessors and Member States (inclusive financing).
 - In alignment with: UIC development programme; MORANE2 test programme; ERA EECT process; ETSI standardisation

European FRMCS Deployment Subgroup

EU-Rail FRMCS Deployment Group

- European FRMCS Deployment subgroup aims to gather information and provide advice for the deployment of FRMCS in Europe.
- This group is made up of following groups:
 - The Management Group which coordinates the activities + transversal topics
 - Working Group 1, technical deployment aspects
 - Working Group 2, financial and legal aspects
 - Working Group 3, deployment and migration scenario's



2. Recap

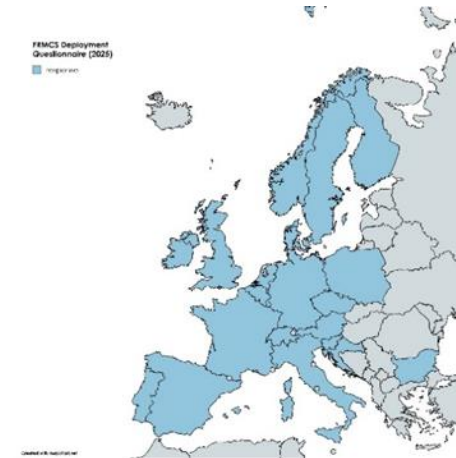
The 2025 Questionnaire



Mapping questionnaire respondents

European FRMCS Deployment Subgroup

- With the support of several associations, the questionnaire has been distributed and over 60 answers have been received.
- The distribution of respondents is :
 - 19 Infrastructure Managers from 19 countries,
 - 26 Railway Undertakings from 12 countries,
 - 5 Trainside Providers,
 - 5 Onboard Providers,
 - 11 NSA's from 11 countries.
- The respondents are from 20 different countries (including UK, Switzerland and Norway)



Summary – Key points

EU-Rail FRMCS Deployment Group

1. Most of the Infrastructure Managers intend to use MNO and there are multiple intended ways of using RMR and MNO.
2. There is globally no financing plan.
3. Infrastructure Managers' schedules and Railway Undertakings' schedules generally do not match. We note very little awareness of the FRMCS deployment in great parts of the Railway Undertakings (e.g. smaller companies)
4. Deployment will not/is not foreseen to be completed before the 2040 deadline in several countries. Despite global obsolescence and fade out of 2G technology, railways are still deploying on new (TEN-T) and retrofitted lines.
5. Railway Undertakings are expecting more than “GSM-R replacement”. The future proofness of FRMCS shall/must be considered because of business economic reasons.
6. There are significant concerns about availability of resources and competences for the deployment.
7. IM's and RU's wait for TSI before starting Request for Quotation processes.

The questionnaire answers have been summarized in a report that is available on EU-RAIL website.

The answers have also been used to write the Advice to ERA as requested in the ERA FRMCS Technical Opinion.

Some webinars have been organized to explain the trends that were detected thanks to the questionnaires.

Because of the evolution of the stakeholders' views on FRMCS, it has been decided to work on a second edition.

3.
2026 FRMCS-
Deployment Questionnaire



FRMCS Deployment survey 2026 (questionnaire)

FRMCS Deployment Group

- EU-RAIL FRMCS Deployment Group will conduct a second survey to gather more detailed sector information and to further increase awareness in the sector and Member States
- With the support of several associations, the questionnaire will be distributed to:
 - Infrastructure Managers
 - Railway Undertakings
 - Trackside Providers,
 - Onboard Providers,
 - National Safety Authorities - NSA's
 - **Notified Bodies - NoBo's (new)**
 - **Mobile Network Operators - MNO's (new)**
- The questionnaire is distributed 2nd June 2026. We expect responses before 15 July 2026 COB





2026 Questionnaire

EU-Rail FRMCS Deployment Group



2026 Questionnaire

EU-Rail FRMCS Deployment Group

Instructions

1. Please do not modify the structure of the questionnaire (Adding or removing lines or columns). Please answer the parts of the questionnaire that are relevant for your organisation. Please answer the questions from a corporate/management high-level perspective. Technical answers are partly required. Thank you for your cooperation. Complete the questionnaire and submit it by **15.07.2026**.
2. Completed questionnaires should be sent directly to:
info-FRMCS-Deployment@rail-research.europa.eu

2026 Questionnaire

EU-Rail FRMCS Deployment Group

Dispatch of the questionnaires:

The Representative Associations are supporting the questionnaire and have agreed to dispatch it.

It has been agreed that Infrastructure Managers are in charge of dispatching the questionnaire to the P-MNO they may work with.

Confidentiality :

The answers you will send will be considered as confidential unless explicitly mentioned as not confidential by you.

The dedicated email address is provided to ensure the confidentiality.
info-FRMCS-Deployment@rail-research.europa.eu

If you intend to send a copy of the questionnaire to any other organisation, please understand it will be under your responsibility and may weaken the confidentiality process.

**Please do not forget
to fill out and return
the
FRMCS Deployment Questionnaire 2026
(distributed to you by the associations or
by Infrastructure Managers)**





Questions?

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More information: <https://rail-research.europa.eu/about-deployment-group/>

Europe's Rail Members





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