

Paving the way to a successful ERTMS rollout – together!

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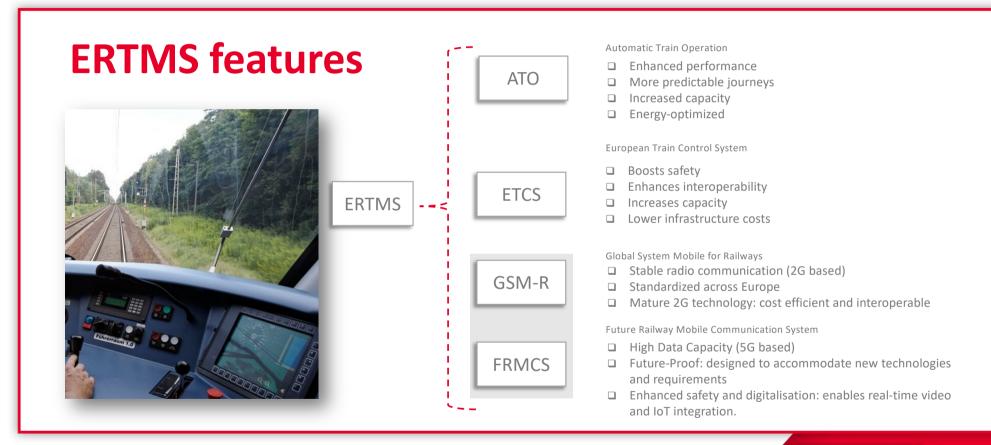
















Business objectives



- A fundamental objective:
 - ☐ Achieve appropriate level of safety & security
- These objectives are linked and have to be addressed in combination:
 - □ Increased cost efficiency
 - ☐ Higher performance of railway system
 - Quicker rollout of solutions

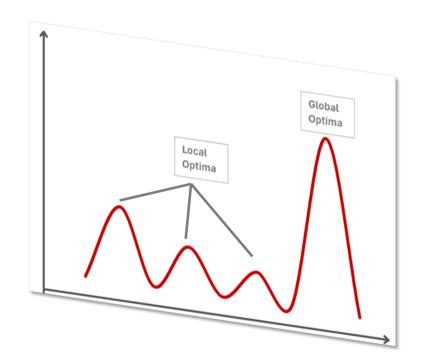
The railway sector will only benefit substantially, if we implement more cost efficient and high performance solutions quicker.





RSI & ROC cooperation

- ROC's operational expertise and
 RSI's solution competence are complementary.
- Cooperation between ROC and RSI is crucial for achieving global optimization, rather than just local improvements.
- ☐ The benefits of this collaboration are seen in the System Pillar of Europe's Rail Joint Untertaking.







TEN-T deadlines

- ERTMS will be **implemented across the entire TEN-T network as the unified European signaling system**, improving rail safety and efficiency.
- National legacy "class B" systems will be gradually phased out, encouraging industry investment in ERTMS.

ERTMS Deployment

- ☐ 2030 core network
- 2040 extended core network
- ☐ 2050 comprehensive network

Class-B decommissioning

- □ 2040 core network
- 2045 extended core network
- 2050 comprehensive network





ERTMS rollout

- ☐ After 20 years of ERTMS deployment, implementation is insufficient
- Accelerated ERTMS deployment is key to improve business case for stakeholders
- Joint sector initiative between the European Commission, ERA, RSI and ROC to remove barriers and for faster ERTMS rollout.







ERTMS rollout initiative

- Support ERTMS deployment targets in the revised TEN-T regulation and ERTMS National Implementation Plans.
- ERTMS Stakeholder Platform to ensure overall coordination, align deployment and implementation and to facilitate efficient and commercially viable deployment with the objective of the Single European Railway Area
- Establish a renewed joint commitment to ERTMS, through a **joint statement at**InnoTrans 2024 and updating the 2016 ERTMS Memorandum of Understanding.





Proposed objectives at strategic level

- Improve interoperability and operational performance with an accelerated ERTMS roll-out, enabled by more cost-efficient signalling solutions ensuring more efficient operations
- Promote a stronger coordination on European ERTMS governance and Programme Management
- ☐ Strengthen cooperation between stakeholders
- Ensure commitment of stakeholders for their area of responsibility
- ☐ Promote harmonisation of requirements and optimum standardization
- Promote the efficient implementation of authorisation and approval processes







FRMCS



- FRMCS is a priority technology for the future railway system, driven by the imminent obsolescence of GSM-R and the significant opportunities FRMCS provides to enable and support the digitalisation of the railway.
- FRMCS will **support existing applications** such as ETCS and voice, as well as **enabling new applications**: ATO, data/video services and, more generally, essential services requiring **telecom quality, flexibility and capacity**.
- European railway telecommunications supply industry has been in **active cooperation** with the UIC, ERA and other European railway stakeholders in the definition of **FRMCS specifications** and **testing programmes**.
- Based on the 2023 EU-RAIL FRMCS Report and new TSI Request from the EC to ERA, the mature FRMCS V3 specifications and inclusion as the 'FRMCS 1st Edition' is expected to be included in the ERA Recommendation deliverable by the end of 2026, for the TSI update in 2027
- UNIFE and 12 UNIFE members will be involved in the **ERJU MORANE-2 project**, which will focus on **the development and testing of FRMCS** technologies and delivery of **FRMCS V3** specifications.
- To achieve this objective and the timelines expected by the sector, we request **enhanced cooperation** between the industry, railways and EU institutions, and an urgent **refocus on the scope** and delivery of the FRMCS V2 and V3 specifications.





Conclusion

For a successful, quicker ERTMS rollout at European scale, we need:

- ☐ Strong cooperation between concerned stakeholders,
- More harmonised operational & technical requirements,
- ☐ Simplified authorisation and approval processes and
- ☐ Reliable multiyear implementation plans and financing commitment

RSI will contribute to make ETCS + radio based communication a success for the railway sector



Thank you for your attention!