



## Cluster C - Rolling Stock Asset Management: On- board and Wayside Technologies



We are delighted to present the latest developments from the FP3-IAM4Rail project, showcasing the collaborative efforts and significant progress made during the cross meetings of Work Packages (WP) 5 and 6 within Cluster C. Held on the March 5th and 6th in Tarbes, France, under the leadership of Alstom, a renowned multinational rolling stock manufacturer which operates worldwide in rail transport markets, these meetings marked a pivotal moment in advancing our collective goals in rail transport innovation.



Team that met at Alstom's offices, in France.



The project is supported by the Europe's Rail Joint Undertaking and its members.



Cluster C is dedicated to the advancement of both on-board (WP5 and WP6) and wayside (WP7) monitoring technologies, crucial for the design, testing and validation of intelligent rolling stock asset management solutions. These efforts underscore our commitment to revolutionising the rail industry through cutting-edge technologies and methodologies.

The meetings started with comprehensive discussions on upcoming Cluster C events, potential amendments and the eagerly awaited InnoTrans trade fair scheduled for September this year. These discussions set a strategic direction for future endeavours within the project.

Going into the core objectives of WP5 and WP6, participants engaged in intensive deliberations focused on the capture and analysis of rolling stock data. This included the development and validation of detection technology, intelligent data analysis and post-processing methodologies crucial for anomaly detection and maintenance strategy enhancement.

Alstom presented a detailed overview of the bench testing of sensor technologies scheduled to take place at Ormans, in France. This included insights into planning/scheduling, technological specifications and the forthcoming on-track demonstration that will be part of WP6.

Collaborative efforts between CAF (Construcciones y Auxiliar de Ferrocarriles S. A.), Alstom and NSR (NS Reizigers BV) focused on the specification of data sharing and vehicle model refinement for slippage management within rolling stock.

A significant milestone was achieved with the finalisation of Key Performance Indicators (KPIs) directly impacting Cluster C. This included the confirmation of KPI formulas and the establishment of a baseline for all Use Cases, setting the stage for strategic planning and KPI aggregation across the cluster.

As the productive meetings ended on the 6<sup>th</sup> of March, plans were set in motion for the next gathering, scheduled to take place in June in Munich, with the generous support of Knorr Bremse.

We extend our gratitude to all participants for their dedication and contributions to the advancement of the FP3-IAM4Rail project. Together, we continue to drive innovation and excellence in rail transport.



Founding Members



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