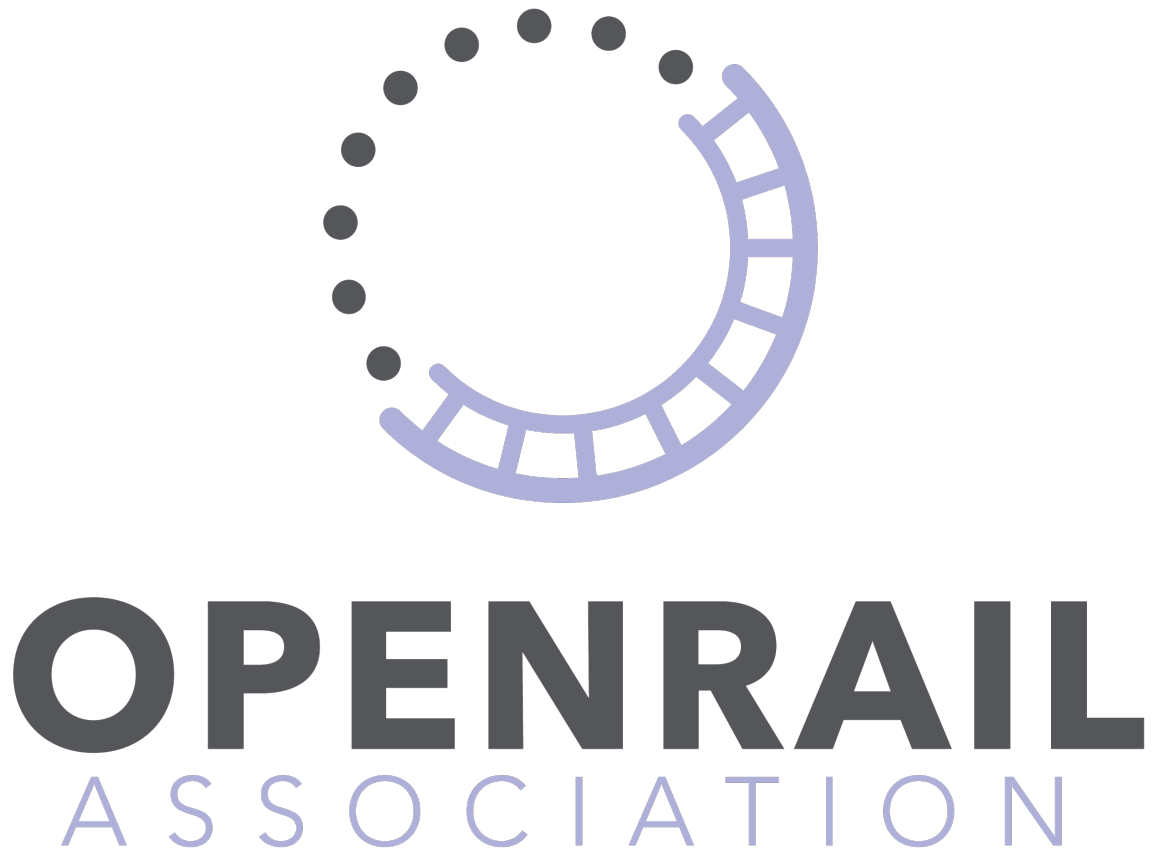


# Building Open Foundations for Railways

Annual Report 2025 of the OpenRail Association



OpenRail Logo

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## Introduction

## Message from the Chair of the Board

Jochen Decker

Dear OpenRail Community,

*tbd*

Yours sincerely,

Jochen Decker, Chair of the Board of Directors, OpenRail Association, CIO at SBB

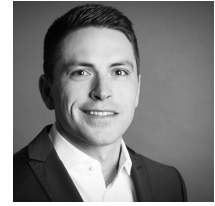


## Perspectives from the Board

### Daniel Woithe

Daniel Woithe

“*tbd*” – Daniel Woithe, *Vice-Chair*, CTO at **DB Systel GmbH**



### Mounir Belhamiti

Mounir Belhamiti

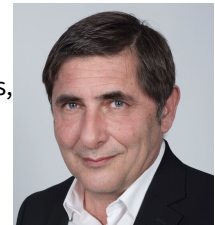
Mounir Belhamiti

“*tbd*” – Frédéric Novello, *Vice-Chair*, Director Strategy and Development at **e.SNCF Solutions**

### Jean-Michel Evanghelou

Jean-Michel Evanghelou

“*tbd*” – Jean-Michel Evanghelou, *Vice-Chair*, Director Telecom, Signalling & Digital Applications, Director Financial Controlling & Project Operations at **UIC**



### Peter Franken

Peter Franken

“*tbd*” – Peter Franken, *Director*, Deputy CIO, Head of Real Time & End User Solutions at **Infrabel**



### Fatima Zohra El Ouerkhaoui

Fatima Zohra El Ouerkhaoui

“*tbd*” – Fatima Zohra El Ouerkhaoui, *Director*, Chief Information and Digital Officer, Board member at **ONCF**



### Brede Dammen

Brede Dammen

“*tbd*” – Brede Dammen, *Director*, Product owner, national journey planner at **Entur**



### Erik Nygren

Erik Nygren

“*tbd*” – Erik Nygren, *Director*, President at **Flatland Association**



### Florian Amsallem

Florian Amsallem

“*tbd*” – Florian Amsallem, *Director*, Chair of the **OpenRail** Technical Committee



## Executive Summary

## **The OpenRail Project Portfolio**

## **OpenRail Projects Overview**

The following projects are the official OpenRail projects incubated through the [incubation process](#).

### **Open Source Railway Designer (OSRD)**

OSRD is an open source web application for railway infrastructure design, capacity analysis, timetabling and simulation and short term path request.

### **Rail Condition Monitoring (RCM OSS)**

RCM by SBB comprises a suite of products for rail condition monitoring. Based on the open source data format RCM-DX (RCM Data eXchange), RCM enables easy accessibility and visualization of railway diagnostic data.

### **Digital Automatic Coupling Migration Decision Support System (DAC Migration DSS)**

Within the next years around 500 K freight wagons all over Europe owned and operated by various corporations will be converted from screw couplers to digital automatic couplers (DAC). To facilitate the migration process, a decision support system (DSS) is planned under the project.

### **Netzgrafik-Editor (NGE)**

Netzgrafik-Editor is now a mature tool for creating and analyzing regular-interval timetables. It's versatile for logistics planning in various domains. Features include interactive editing, graphic timetables, trainrun editing, and logistics analysis.

### **Library for Linear Reference Systems (libLRS)**

The goal of the library is to have a flexible, high performance and easy to integrate linear referencing systems (LRS) library that can be used in any system to manipulate LRSs.



## **First Project Reaching the Qualified Stage**

*Explain how OSRD reached the Qualified stage in the incubation process and what that means.*

## **How OpenRail Creates Impact**

## Open Source in Production

*How OSRD is used in production. This shows how open source projects can be used for production use cases, and how OpenRail projects increase their relevance.*

## Collaboration between OpenRail Projects (NGE)

*Tell how Netzgrafikeditor gained contributors from SNCF and how collaboration works today. Show the metrics for this and hint to the metrics report.*

## **Innovation through Open Source (DAC Migration DSS)**

*How PopuSim evolved from a Hackathon project, joined the Skydeck accelerator and became part of OpenRail as part of the DAC Migration DSS project. Shows sustainability of open source and innovation in railway freight for the migration to the digital automatic coupling.*

## **Building blocks (libLRS)**

*Show how liblrs is used as a building block in ORSD and other projects. Explain what makes liblrs suited for that.*

## **Open Source fosters adoption of standards (RCM OSS)**

*Show how RCM OSS is used as a standard, who uses it, and how open source helps with that.*

## **Community and Ecosystem**



## **OpenRail Day @Paris - Collaboration in Practice**

*Report from OpenRail Day. Workshops, Exhibition, Conference, Board Meeting. Use photos.*

## **Hack4Rail 2025 in Bern - Innovation through Open Source**

*Report from Hackathon and how OpenRail acted as partner. Outlook to Hack4Rail 2026 in Vienna.*

## **Railways and Open Transport Devroom at FOSDEM 2025 - Community at Scale**

*Report from FOSDEM 2025*

## **Digital Resilience - Strategic Outlook**

*How and why digital resilience is an important topic for OpenRail. Report from Digital Resilience Forum, and about support for European Sovereign Tech Fund and the Declaration of Digital Independence.*

## **The Association**

## How the OpenRail Association works

*Add canonical picture of organization structure and description of how it works. Different working bodies etc.*

## **The Association**

## Our Members

We are grateful to our members for their commitment to open collaboration in the railway sector. Their engagement and support drive the success of the OpenRail Association, helping to build a strong, sustainable, and innovative open source ecosystem. The following organizations are part of this movement.

### Platinum



### Gold



### Silver



Entur

### Associate





## Join us

The **OpenRail Association** is more than just an organization—it’s a **community of people and companies** working together to bring **open source to the railway sector**.

Railways across Europe face **shared challenges** that require **shared solutions**. Open source enables us to **collaborate, innovate, and break down silos**, ensuring that essential software is **interoperable, efficient, and sustainable**.

### Bring Your Project to OpenRail

OpenRail actively **welcomes new projects** into its **incubation process**. If you have a project that could benefit from **structured governance, a wider community, and long-term sustainability**, our **Technical Committee** provides guidance, best practices, and a neutral home for open source railway software.

### Ways to Get Involved

- ✉ **Join as a Contributor** – Explore our projects and start contributing: [github.com/OpenRailAssociation](https://github.com/OpenRailAssociation)
- ✉ **Propose a New Project** – Learn about our **incubation process** and bring your open source initiative to OpenRail: [github.com/OpenRailAssociation/technical-committee](https://github.com/OpenRailAssociation/technical-committee)
- ✉ **Become a Member** – Organizations can **support and shape the ecosystem** by joining as members: [openrailassociation.org/about](https://openrailassociation.org/about)

### Membership Levels & Engagement

OpenRail offers **four membership categories**, providing different levels of engagement and governance representation:

Membership Category	Role & Influence	Annual Fee (2024)	Representation on Board
Platinum	Strategic leadership in OpenRail’s direction	25,000 €	7 seats
Gold	Active participation in governance & decision-making	15,000 €	3 seats
Silver	Engaged collaboration in OpenRail’s open source ecosystem	10,000 €	1 seat
Associate	NGOs, academic institutions supporting OpenRail’s mission	Free	1 seat

Platinum, Gold, and Silver members **directly shape OpenRail’s governance**, with seats on the **Board of Directors**, where key decisions about the association’s strategy and operations are made.

### Be Part of the Movement

Our work is **transparent, community-driven, and open to all**. If you’re interested in **being part of this movement**, explore our projects, participate in discussions, and see how you or your organization can contribute.

## Endnotes

### Website

Find more information on the OpenRail Association at <https://openrailassociation.org>.

### Contact

To contact the OpenRail Association send us an email at [contact@openrailassociation.org](mailto:contact@openrailassociation.org).

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