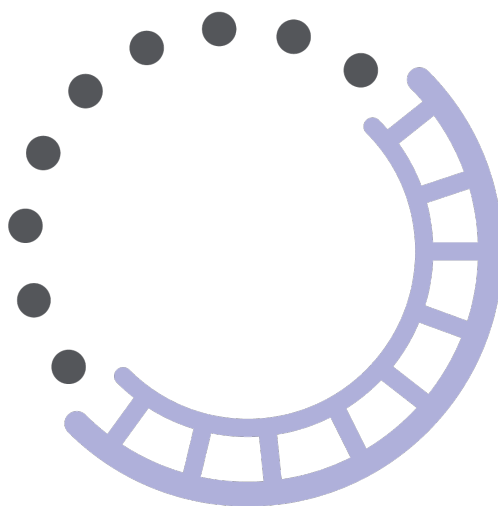


Annual Report 2024 of the OpenRail Association

Text in italics (such like this) is meant as instructions how to fill the sections. It should be removed before finalising the report.



OPENRAIL
ASSOCIATION

OpenRail Logo

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Executive Summary

Message of the Chair of the Board

The OpenRail Association Board

Pictures of all board members with name, role in the board, organization and title in their organization

For each board members we would like to have a brief quote about the OpenRail Association. Ideally this altogether tells a story.

For each board member there is an own file where we collect the respective info and text (*05xx.md*)

We leave the chairs of the TC out here as they have their own page [later](#).

Jochen Decker

Frédéric Novello

Jean-Michel Evanghelou

Nicole Göbel

Brede Dammen

Erik Nygren

Fatima Zohra El Ouerkhaoui

Peter Franken

Open Source for the Railway Sector

Tell the story of what the organization is built for. What does it want to achieve and how do the steps we did in 2024 are the beginning of this effort.

OpenRail Projects

One-page overview of the projects with brief summary and ideally some icon to visually represent each project.

For each project we will add the incubation stage as a small visual indicator using the [badge](#).

In the following subsections we have a deep dive for each project (*07xx.md*).

Each project should address the following topics:

- Which domain, which business requirement does it address
- Which functionality
- Technology
- Adoption, community
- Potential, future perspective
- Reached milestones

In 2024 the OpenRail Association accepted the first five open source projects in its [incubation process](#). Dive deeper on each of the projects on the following pages.

Open Source Railway Designer (OSRD)

OpenRail Sandbox

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)

OpenRail Sandbox

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 Automated Coupling Migration Decision Support System (DAC Migration DSS)

OpenRail Sandbox

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)

OpenRail Sandbox

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)

OpenRail Sandbox

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.

Open Source Railway Designer

Rail Condition Monitoring

Digital Automated Coupling Migration Decision Support System

Netzgrafik-Editor

Library for Linear Reference Systems

Message of the Chairs of the Technical Committee

Message from the Technical Committee, highlighting beginning collaboration (example OSRD/NGE).

Members

One-page overview of members. Grouped by membership category.

Building the organization

2024 has been the year of building up the organization. Tell the story, significant milestones, use it to mention the important organizational parts, link to where to find more information, such as governance documents.

Participating in Events

Events OpenRail participated in, along with photos where we have them. Tell the story of building a community.

- FOSDEM
- InnoTrans
- Flatland Symposium

Join us

Text from our one-pager. To be adapted.

OpenRail Association – Open Source for the Railway Sector

We create an open, autonomous and collaborative space to work together on rail-specific software initiatives.

Our goal is to: - Unlock the benefits of open source for the sector - Accelerate innovation - Increase efficiency - Improve interoperability

Contribute to our projects to collaboratively create solutions for the challenges of digital transformation within the railway sector: <https://github.com/OpenRailAssociation>

Topics – Active Open Source Projects:

- Maintenance e.g. [RCM-DX](#)
- Timetable Planning e.g. [OSRD](#)
- Netdesign e.g. [Netzgrafik Editor](#)

Established in 2024 by: - DB - SBB - SNCF - UIC

Join us as a member to support an open-source ecosystem for the railway sector: <https://openrailassociation.org/about>

Endnotes

Website

<https://openrailassociation.org>

Contact

Send us an email at contact@openrailassociation.org.

License

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