

Siemens presents Vectron X and Siemens Xcelerator portfolio at InnoTrans 2026

- **Data and AI unlock greater rail capacity, higher availability, improved passenger experience, and lower lifecycle costs**
- **Vectron X extends Siemens Xcelerator to rolling stock for the first time, marking the next major step toward a software-defined rail ecosystem**
- **Around 45 indoor exhibits on 1,000+ m² showcase Siemens Mobility's digital portfolio and latest rail innovations**

Four years after launching its Siemens Xcelerator journey in rail, Siemens Mobility is bringing its open digital business platform into rolling stock for the first time. Making its InnoTrans debut, Vectron X extends the Siemens Xcelerator portfolio from Signaling X, Mobility Software Suite X, and Railigent X to the locomotive itself, marking the next major step toward a more connected, software-defined rail ecosystem. At InnoTrans 2026, the company will demonstrate how data and artificial intelligence help operators increase capacity, improve availability and reliability, enhance the passenger experience, and optimize lifecycle costs. With a 1,000+ m² booth, approximately 45 indoor exhibits, immersive digital experiences, and more than 300 meters of outdoor displays, Siemens Mobility showcases technologies that are delivering proven results for customers around the world. **Visit Siemens Mobility in Hall 27, Booth 230.**

"Nothing is transforming rail faster than data and AI. Operators need more capacity, availability, and a better passenger experience while making the most of existing infrastructure. That's exactly what Siemens Xcelerator is designed to deliver. At InnoTrans 2022, we committed to building a connected, open, and future-ready

mobility ecosystem. Today, that vision has become reality. Our Siemens Xcelerator portfolio demonstrates how open APIs, standardized data, and connected platforms are turning digital innovation into measurable customer value at scale. With Vectron X, we are now bringing this open platform and software-defined approach to rolling stock," **said Michael Peter, CEO of Siemens Mobility.**

Vectron X: Bringing Siemens Xcelerator to the locomotive

At the heart of Siemens Mobility's presence at InnoTrans is **Vectron X**, the company's new software-defined locomotive platform. Designed as an open and connected platform, Vectron X combines proven locomotive technology with digital services, an onboard App Store, and a central Smart Screen that integrates operational data, route information, and customer-, operator-, and third-party applications in a single interface. Enabled by Railigent X, the new locomotive continuously evolves with software updates and new digital capabilities throughout its lifecycle. One of the centerpiece demonstrations at the booth connects a Vectron X driver's cab with Signaling X, Mobility Software Suite X, and Railigent X through open data, APIs, and cloud technologies, showcasing an integrated rail ecosystem.

AI in action across the rail ecosystem

A central highlight of the exhibition is Siemens Mobility's immersive **AI cinema experience**, demonstrating how operational data can be transformed into actionable insights across the entire rail system. Featured use cases include:

- AI-supported traffic management and network optimization
- Predictive maintenance and lifecycle optimization
- Intelligent passenger information and travel assistance
- Data-driven infrastructure monitoring and diagnostics

Transforming rail infrastructure: Intelligent technologies for better efficiency

Visitors will have the opportunity to explore Siemens Mobility's innovative solutions for digital rail infrastructure, led by **Signaling X** – the company's integrated technology foundation for the digital transformation of rail infrastructure. By connecting proven rail technologies with digital capabilities, standardized software and hardware platforms, and open interfaces, Signaling X provides a software-defined, cloud-ready, modular, and interoperable architecture that empowers rail operators to optimize network performance, resilience, and cybersecurity on existing infrastructure while simultaneously reducing lifecycle costs and energy consumption.

As part of Siemens Mobility's continued expansion of Signaling X for countries and cities, the company will present its family of **Smart Object Controllers** for the intelligent control of railway field assets. Together with DS3, Siemens Mobility's safety platform running on commercial off-the-shelf (COTS) hardware for all signaling applications, it demonstrates how digital intelligence can be extended to the field level to support more flexible and scalable rail operations.

Lifecycle optimization through data & AI in maintenance

With **Railigent X** and its comprehensive service portfolio, Siemens Mobility Customer Services demonstrates how data intelligence and AI are redefining maintenance. Through integrated sensors and diagnostic systems, every asset – whether rolling stock like battery-powered trains or infrastructure – becomes a valuable data source. Additional train- and trackside measurement and monitoring systems, such as **Vehicle Equipment Measurement Systems (VEMS)** for automated vehicle inspection, further enhance asset transparency and performance. Based on these insights, Siemens experts proactively monitor fleets, diagnose faults remotely, and help resolve issues before they impact operations. AI-powered health-state models support predictive maintenance by forecasting failures and identifying the optimal timing for preventive interventions, extending maintenance intervals and keeping assets in service for longer. Over-the-air software updates keep vehicles up to date without additional depot visits, while the same data-driven approach supports spare parts management and component availability.

Software orchestrating the railway system

Software plays a crucial role in optimizing operations and connecting every element of modern mobility. Siemens Mobility's software can be one of the most effective levers to increase the financial performance of a rail system by achieving more optimized network utilization and train usage. At InnoTrans, the company will present its **Mobility Software Suite X** portfolio to enhance passenger experience and increase digitally enabled capacity on the tracks and in the train. The company will showcase **S3 Passenger Revenue Management**, an AI-enabled module fully integrated into the S3 Passenger platform, connecting inventory management, fares, and reservations in real time to ensure optimized pricing and increased occupancy.

AI-enhanced travel companion apps support passengers throughout their journey and **AI-enabled disruption management** streamlines communication, ensuring quicker reactions to disruptions. The Software portfolio also includes the **Train**

Planning System (TPS) Suite, which helps operators increase infrastructure utilization by up to 20%. **TPS.live** offers AI-powered conflict resolution and network-wide optimization of rail traffic. For the first time, Siemens Mobility will present **TPS.yardoptimizer**, a cloud-ready SaaS solution for efficient yard management.

Delivery of complete, digitally enabled, end-to-end global rail systems

Siemens Mobility's **Turnkey** business offers customers worldwide a holistic concept for developing rail infrastructure. At the Turnkey stand, a **Velaro Novo** exhibit highlights how Siemens high-speed platforms are connecting people, cities, and economies around the world. Alongside this showcase, Turnkey demonstrates how digital twin simulations support projects from planning and delivery through operations, helping customers improve efficiency, reliability, and project execution.

Full portfolio on display

In addition to its digital innovations, Siemens Mobility will showcase a broad range of rail technologies in the outdoor area, including:

- **Vectron X** and cross-border locomotive solutions
- **Mireo** for ÖBB, designed for operation in Alpine long-distance services
- Battery-powered **Mireo Plus B** for S-Bahn Mitteldeutschland, including the **Rail Charging Converter and services** for battery-powered trains
- **Inspiro** London for Piccadilly Line, digital metro for the Deep Tube network
- Exhibition containers showcasing Rail Infrastructure in Germany, global electrification solutions, and Railigent X service and lifecycle offerings

This press release as well as press pictures / further material are available at

<https://sie.ag/4KmTkK>

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For further information about Siemens Mobility: www.siemens.com/mobility

Siemens Mobility is a separately managed company of Siemens AG. As a leader in intelligent transport solutions for more than 175 years, Siemens Mobility is constantly innovating its portfolio. Its core areas include rolling stock, rail automation and electrification, a comprehensive software portfolio, turnkey systems as well as related services. With digital products and solutions, and the use of industrial AI, Siemens Mobility is enabling mobility operators worldwide to make their infrastructure intelligent, increase value sustainably over the entire lifecycle, enhance passenger experience, and guarantee availability. In fiscal year 2025, which ended on September 30, 2025, Siemens Mobility posted revenue of €12.4 billion and employed around 43,400 people worldwide. Further information is available at: www.siemens.com/mobility