

Alstom launches its largest Digital Experience Centre for next-generation Signalling solutions development in India

- **Built with a total investment of €40 million over the last decade, the Signalling Lab infrastructure including Digital Experience Centre is:**
 - **The hub for signalling technology R&D and project deployment at varied levels for more than 120 projects in India and worldwide.**
 - **Built to exhibit innovations built using emerging cloud-based technologies such as AI, Big Data, intelligent maintenances (preventive & predictive), LTE and Cybersecurity. To further develop and deploy mobile enabled solutions.**
 - **Inclusive of a Centre of Excellence for Cybersecurity**

20 December 2023 – Alstom, a global leader in smart and sustainable mobility, today launched India’s first Digital Experience Centre ever built by a rail OEM. Located in Bangalore and spread over 5000 sq.ft., the Digital Experience will be the hub for executing Urban, Mainline, Freight & Mining (specific market) projects along with the integrated cybersecurity, Security & Telecom and SCADA features. With this centre, Alstom has its largest signalling lab infrastructure spread over 60000 sq.ft. in India that will aid the company’s vision of making India a global hub for technology and innovation. The dedicated experience centre will support more than 7 million hours of engineering work for Indian and global projects.

Commenting on the launch of the Digital Experience Centre, **Olivier Loison, Managing Director, Alstom India** said, “The rail network in India, both urban and mainline is becoming highly modernised and complex, this makes it more important than ever to develop advanced Signalling solutions to drive safety, efficiency, and improved passenger experience. In addition to our excellent manufacturing and engineering capabilities, we are proud to be now leading the charter of rail technology innovation with the launch of this centre in India. As the leaders in sustainable mobility, we look forward to developing modern signalling solutions by harnessing the country’s vast talent pool, moving forward the innovation goalpost in our industry.”

As per a [study by GII](#), the market for railways signalling systems is expected to witness significant growth and the global railway signalling systems market is expected to grow at a CAGR of 9.5% over the forecast period from 2022 to 2030. Alstom’s signalling lab infrastructure in India today addresses more than 40% of its worldwide R&D needs.

Highlights about the Digital Experience Centre

The centre will facilitate learning, adaptation, experimentation, simulation, and validation of Alstom's new signalling solutions advanced industry hardware and software innovations. It will conduct complete simulations of world-class signalling technologies, including the one developed for the NaMo Bharat, India's first semi-high speed regional train. Moreover, the centre will leverage IoT, IoB for Security and Telecom-related domains, GenAI applications (OpenAI based), and blockchain for innovation projects in railway applications. These initiatives aim to enhance Alstom's business capabilities, efficiency, and inspire a culture of innovation within the organisation. The centre's extensive infrastructure will speed up localisations of solutions and R&D programs, drive innovation in India, and support the 'Make in India' initiative of the government. Other key highlights include:

- Centralised demonstration of Operation Control Centre depicting all train movements in a project
- Remote system monitoring and troubleshooting
- Display of safety-critical hardware, trackside equipment, innovation booths, and interactive information on all signalling gears
- Complete end-to-end tests for projects and R&D software delivered from India.
- Built leveraging emerging technologies such as AI, Big Data, intelligent maintenance, LTE, and cybersecurity.
- Mobile app enabled solutions.

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About Alstom

Alstom commits to contribute to a low carbon future by developing and promoting innovative and sustainable transportation solutions that people enjoy riding. From high-speed trains, metros, monorails, trams, to turnkey systems, services, infrastructure, signalling and digital mobility, Alstom offers its diverse customers the broadest portfolio in the industry. With its presence in 63 countries and a talent base of over 80,000 people from 175 nationalities, the company focuses its design, innovation, and project management skills to where mobility solutions are needed most. Listed in France, Alstom generated revenues of €16.5 billion for the fiscal year ending on 31 March 2023.

For more information, please visit www.alstom.com.

About Alstom in India

Alstom is the only multinational sustainable mobility provider in India, to have a comprehensive portfolio of offerings to meet customer specific needs, from cost-efficient mass-market platforms to high-end technological innovations. Synonymous with the country's 'Rail Revolution', Alstom continues to be a strategic partner in supporting India's freight revolution and passenger movement. With 6 industrial sites and 4 major engineering centres, the company not only caters to domestic project needs, but also delivers for many international projects. Supporting the government's modernisation initiatives, Alstom has been at the forefront of introducing several breakthrough technologies in India with world class rolling stock, rail equipment & infrastructure, signalling and services. Fully aligned with the country's vision of Make-in-India and Aatmanirbhar Bharat, Alstom remains deeply committed to strengthening its local sourcing and supply chain ecosystem.

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