

Wavetrain secures updated CENELEC SIL2 approval for its AI and Machine Learning–powered Level Crossing Warning System

Lysaker, Norway – Wavetrain Systems AS, a subsidiary of Nordic Technology Group AS (NTG), is pleased to announce that its latest Level Crossing Warning System has achieved an updated CENELEC SIL2 approval. The system is powered by Artificial Intelligence (AI) and Machine Learning (ML), delivering robust detection performance and opening significant market opportunities in condition-based monitoring and maintenance.

Building on this technology, Wavetrain has completed final trial activities with Network Rail, Wavetrain's key launch customer. This milestone marks an important step toward broader deployment of the solution to enhance safety and efficiency at level crossings.

"Achieving updated CENELEC SIL2 approval, together with the successful completion of our final trials with Network Rail, demonstrates the maturity and reliability of our AI-driven approach," said Pål E. Bratlie, CEO of Wavetrain Systems AS. "Our technology is designed to be installed quickly, operate autonomously, and deliver the actionable insights operators need to improve safety while significantly reducing lifecycle costs."

Strong global traction

Following the Network Rail purchase of one system, and next approval steps towards final type approval, interest in Wavetrain's solution continues to accelerate worldwide. Wavetrain is in active dialogue with infrastructure stakeholders across Europe, North and Central America, Asia, and Oceania.

- Two countries have initiated national approval processes and have decided to purchase one Wavetrain's Level Crossing Warning System.
- Wavetrain is also advancing negotiations with four more countries for system sales and national roll-outs.

Together, Network Rail and the two countries initiating national approvals represent more than 23,000 level crossings corresponding to a total addressable market (TAM) of more than NOK 11 billion, highlighting the significant market potential for Wavetrain's solution.

Strategic partnerships

To support local sales and accelerate expansion, Wavetrain has entered into two partnership agreements focused on strengthening market presence and providing regional support. Wavetrain is receiving strong interest from additional partners who want to represent Wavetrain and bring the product to market, further broadening the company's reach and capacity to serve customers globally.

Technology at a glance

Wavetrain's AI/ML-enhanced system interprets acoustic signatures to detect approaching trains and trigger appropriate warnings. The latest ML capabilities enable improved performance, support condition-based maintenance, and provide a scalable foundation for future monitoring applications.

About Wavetrain Systems AS

Wavetrain Systems AS is a Norway-based safety technology company focused on AI-driven solutions for railway level crossings. The company's patented approach uses acoustic sensing combined with advanced software to deliver reliable detection, rapid installation, and low-maintenance operation—improving safety and significantly reducing cost for rail infrastructure owners and operators.

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