

STRATEGIC IMPORTANCE

- Key export corridor: Kiruna to the ice-free port of Narvik
- Critical for European raw material supply
- Important link in a shifting security context
- Supports regional growth
- Low-emission alternative to road transport
- Ongoing investments boost capacity and resilience





WHY

 Heavy Loads and Infrastructure Wear

- Extreme Arctic Conditions
- Safety Challenges
- Cross-Border Transport Complexity

A JOINT NORDIC INITIATIVE WITH GLOBAL AMBITIONS

BANE NOR















AMBITION

Develop Ofotbanen and Malmbanan into an international Arctic Test Arena for Railway Technology

IF IT WORKS HERE, IT WORKS ANYWHERE

GOALS

- Improve operational reliability
- Develop climate-resilient solutions
- Promote innovation
- Enable testing activities





AREAS OF FOCUS

- Testing of infrastructure and rolling stock
- Develop solutions for cold climate and heavy freight
- Research on maintenance and operational reliability
- Share data and drive digital collaboration
- Build skills through education and events
- Promote the test arena internationally

TEST ACTIVITIES

- Advanced sensors and AI-driven monitoring
- Bridge monitoring via sensors and satellites
- Detection of ground movement, landslides, and rail breaks
- Measurement of track geometry, forces, and wear
- Full-scale testing of rails, sleepers, and fastenings under 32.5-ton axle loads



PARTNERS AND COLLABORATION MODEL

Partnership Structure

- Main Partners
- Associated Partners
- Strategic Partnerships
- Memorandum of Understanding (MoU)

Organization

- Steering Group
- Working Group
- Test/Project Portfolio

Operation & Maintenance Engineering

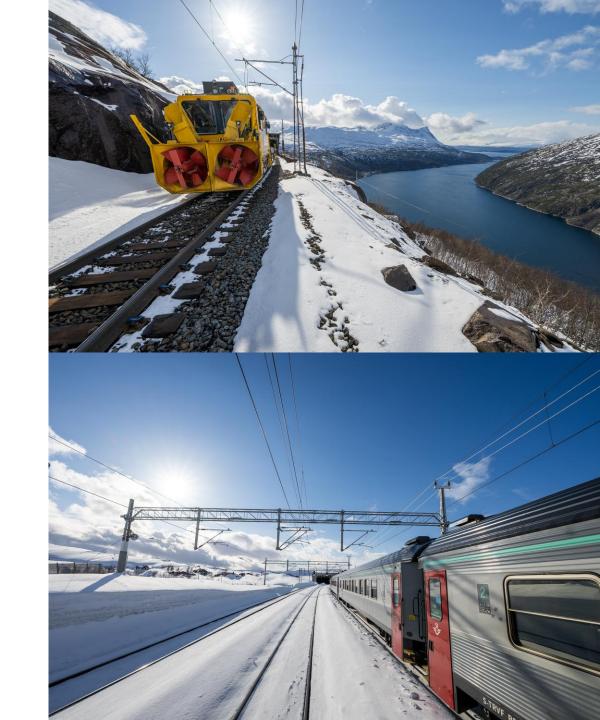


WATCH THE FILM

<u>Arctic Test Arena – Ofotbanen and Malmbanan - versjon2 on Vimeo</u>

WHAT'S NEXT

- Official launch: 4 November 2025
- Partner access expands from 2026
- Broader deployment expected within 3–5 years





LAUNCH & SEMINAR NOVEMBER

4 November: Launch ceremony Narvik station, Arctic Innovation Train Journey whit demos, and evening networking dinner

5 November: Seminar & lab visit at UiT – including lessons from the 2023 derailment, ongoing and future test activities, and collaboration models

Meet partners and explore collaboration opportunities

Register

https://forms.office.com/e/u3wnkScgJv

