

Linking safety and efficiency across Latvian roads

Case Study



The client:

Latvian State Roads

Vaisala solution:

Road Weather Station RWS200

How Latvia is maintaining safe winter roads while saving time and materials with RWS200

Tucked between the Baltic Sea, Lithuania and Estonia, Latvia's roads link medieval with modern architecture, rural areas with bustling cities, and local government with world leaders.

THE CHALLENGE:

A road weather network with data gaps

To serve the growing country, Latvian State Roads oversees and manages the entire road network. The organization already had a road weather network in place, using road weather stations and viewing data through Vaisala RoadDSS Navigator, which gave them visibility of road weather conditions in some areas that are subject to ice and snow in winter. However, there were data gaps in other areas that required human observation to gauge conditions and make road treatment decisions.

Latvian State Roads primarily relied on road maintenance engineers driving through the road network to maintain safe winter driving conditions – a process that led to inefficient use of driving time and overuse of materials. Through a tender process the organization selected Reck, a local Vaisala partner and leading energy construction service provider, to help them strengthen their road weather network with additional road weather stations in the right locations.

THE APPROACH:

Top accuracy, quality and reliability

The Vaisala Road Weather Station RWS200 was the clear winner in this tender, providing unparalleled reliability and uptime for the greatest decision-making confidence with minimal disruption. The industry's most reliable,

"The quality and capabilities of RWS200 are really impressive. We are proud to partner with Vaisala and offer solutions that help our customer deliver the highest standards of winter road maintenance, all while saving time and using materials in a more environmentally sensitive manner."

*Ainars Grinbergs
LTD "RECK" Head of Equipment Sales Department*

accurate road weather station includes high-grade components and materials built to withstand almost anything nature can throw at them. The RWS200 is easily expandable and upgradable if observation requirements change.

THE RESULTS:

Higher safety, quality and confidence

System alerts empower them to make accurate decisions on how to maintain the roads for the most efficient use of time and materials: This is especially important as a separate agency completes winter road maintenance.

With the solution in place, Vaisala is helping to train the customer in efficient use of the system. This is a critical part of success, as thousands of people are involved in making roads safer in Latvia. As a result, there is more clarity and agreement on what needs to be done and when.

Service quality and the environment have risen in importance, and standards are also rising – which gives everyone confidence in maintaining safe roads in any weather.

The Vaisala RWS200 road weather station network is also connected to variable message and warning signs on the main road ITS pilot projects. This allows them to maintain traffic flow efficiently and safely, despite adverse weather conditions such as low visibility, torrential rains or high winds. The project not only fosters safe passenger and cargo transport, but also lowers CO₂ emissions by reducing road transportation times.

Why Vaisala?

Vaisala's weather and environmental technologies take every measure for unrivaled road network awareness – keeping roadways safe and efficient in any season.

Our instruments and intelligence are built on 85+ years of innovation and are known as the gold standard for precision and reliability. We understand how accurate data and insights do even more by driving sustainable road operations and climate action. Our holistic approach provides customers with end-to-end simplicity, valuable partnership, and a comprehensive portfolio that is constantly evolving.

As recognized experts in transportation, we continue to channel our curiosity into new ways of making roadways safer and more efficient than ever.

