Vaisala road weather services for automotive ADAS & AD
Precision road weather forecasting for advanced driving technology

The development and integration of new generations of Advanced Driver Assistance Systems (ADAS) and Automated Driving (AD) systems depend on the technology's ability to safely operate in environments where the conditions constantly change. Vaisala's road weather services provide highly accurate data about all types of road weather and surface conditions that compromise the safety of ADAS and AD systems if not considered.

When it comes to advanced and automated driving technology, safety is always the top priority. Vaisala's road weather solutions provide vehicle systems with the information needed to see beyond on-board sensor ranges, increasing both safety and comfort. Highly accurate and reliable data about constantly changing road conditions increases the availability of AD and ADAS functionality for the end user and plays an essential role in the further development and fine-tuning of assisted and automated driving systems for OEMs and technology suppliers.

Key benefits

Highly accurate road weather data
Vaisala's extensive weather measurement and road weather expertise and commitment to exceptional quality result in highly-accurate data about constantly changing weather conditions, enabling safer, more reliable, and more responsive ADAS and AD systems.

Increased driver and passenger safety
Predictive and pre-emptive road weather services can make the journey both safer and more comfortable by eliminating the need for unexpected braking or other sudden changes related to unforeseen road weather conditions.

Reliable data to drive R&D projects
Highly accurate road weather related datasets provide essential information to support further research and development of new AD/ADAS projects by both OEMs and technology suppliers targeting safe and fully autonomous systems.

Road weather services for automotive at a glance

Applications

- Support of optimal route determination and travel planning by providing near-future road weather and driving conditions.

- Advancing AD/ADAS research and development efforts with environmental datasets and improving AD/ADAS reliability for safe operations in all conditions.

- Assisting human drivers in foreseeing and avoiding challenging road weather conditions in the event that AD/ADAS systems are disabled.

Key features

Comprised of accurate road weather data that covers broad geographic areas for superior reliability and enhanced safety.

Incorporates surface state current conditions with forecasts, friction estimates, and water and ice film thicknesses for highly accurate road weather condition data.

Built on a very strong automotive foundation, and features Bosch as a lead co-development partner.

Flexible and easy start up, and compatible with other road weather services and hardware sensors in Vaisala's portfolio.

Why Vaisala?

The industry's most dependable road weather forecasting technology

Vaisala road weather forecasting technology solutions lead the industry thanks to superior data qualities and a continuing commitment to innovation and research and development. They are built on 80 years of weather measurement experience and trusted in more than 100 countries, from Nordics to Africa and from the Americas to Asia. Vaisala's strong background in road weather, active development of novel forecasting methodology, and investment in R&D activities demonstrate to your customers that you care about quality and safety.

Support and services you can count on

Look to Vaisala for dependable support, project capabilities, and training so you can get the most from your system. With decades of experience providing the best technologies and the finest support, Vaisala's philosophy of partnership is unmatched in the industry.

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