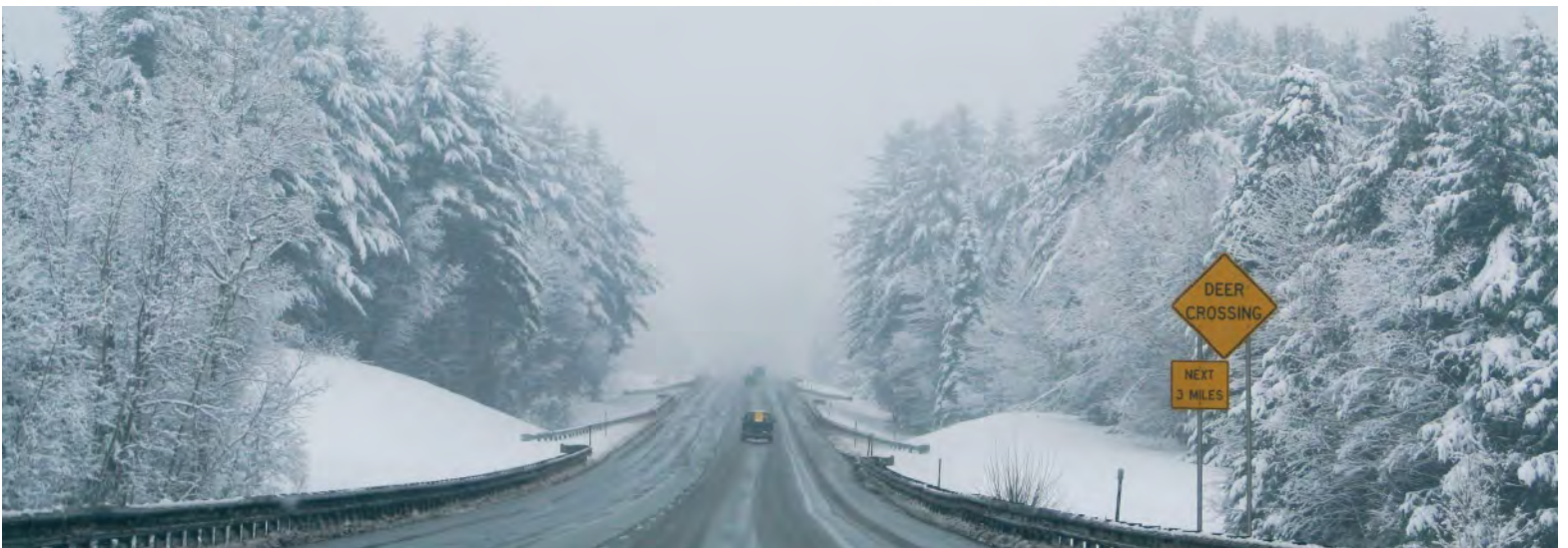


# Knowledge Paves the Way

/ VAISALA ROAD WEATHER SOLUTIONS



**VAISALA**

# Advanced Decision Making for Roads



*Weather impacts the surface transportation system with ice, snow, dramatic temperature changes, low visibility, high winds and flooding. With the power to wreck travel plans, the flow of goods and services, infrastructure and lives. The solution? Knowledge.*

Smooth and safe traffic is about right and timely decisions, especially when you are a authority responsible for maintaining good road conditions.

Vaisala offers transportation decision-makers the widest array of smart solutions and performance enhancing products and services: Weather-related surface transportation knowledge and decision-making ITS solutions and services for DOT, ministry, city and county authorities.

## Know, Decide and Communicate

Vaisala road weather solutions provide data and guidance about current conditions anywhere you need to know. All the data – such as thermal mapping, video, traffic volume, weather parameters – is analyzed and integrated with other information by decision support solutions. This enables you to take better, quicker actions and communicate your decisions to maintenance professionals, drivers and communities.

## Leading Knowledge

Vaisala can assist decision-makers and travelers at all points along the way, through any type of weather event impacting surface travel. You will always find an integrated solution that fits your problem.

How does our experience and end-to-end solutions help you? Vaisala's road weather experience is longer than anyone else, because we pioneered much of the technology created over

## Vaisala Solutions

The solution range is wide, but the results are clear.

Decision making software solutions that are supported by:

- Fixed road weather stations
- Mobile weather sensors
- RoadDSS™ Software Suite
- Thermal mapping
- Road weather forecasting
- Communication and information solutions

## Vaisala Road Weather Benefits:

- Efficiency: More accurate information for better decisions. Users are able to react faster to changes in the weather, use less chemicals on the road, and be more efficient with manpower
- Alerting: Software is always monitoring the conditions so surprises are avoided
- Aid to inexperienced users: Providing tools that help supervisors react like experienced professionals
- Anti-Icing: Allowing users to “anti-ice” to combat winter roads. Evaluation data shows that anti-icing programs can lower snow and ice control costs by 10 to 50 percent and reduce crash rates by 7 to 83 percent.
- Winter maintenance personnel from several agencies indicate that use of RWIS decreases salt usage and anti-icing techniques limit damage to roadside vegetation, groundwater, and improve air quality (in areas where abrasives are applied)
- The RWIS benefit to cost ratio ranges from 2:1 to 10:1 and RWIS ranks high in both safety and mobility impact

## Solutions for a Better Quality of Life

As a company we strive to contribute to a better quality of life by providing our customers with a comprehensive range of innovative technology products, intelligent solutions and services. We are a global leader in environmental and industrial measurements with customers in over 120 countries and over 70 years of experience. Headquartered in Finland, Vaisala has over 1400 professionals in 30 offices worldwide. Vaisala is listed on the NASDAQ OMX Helsinki.

the past forty years. Our products will provide less hassle and give you a greater chance for success. Our end-to-end solutions mean all of our products will work together. As a new sensor or software is designed, it seamlessly works with surrounding technology, because we designed that too.

## All Seasons Covered

Although we cover weather information needs end-to-end, Vaisala Roads is best known for our innovative winter

weather solutions. That is where the greatest opportunities are in terms of safety or cost savings. Our road weather stations, or RWIS, provide you with rich information such as ice or snow on the pavement, frost, black ice, depth of water or snow, and friction.

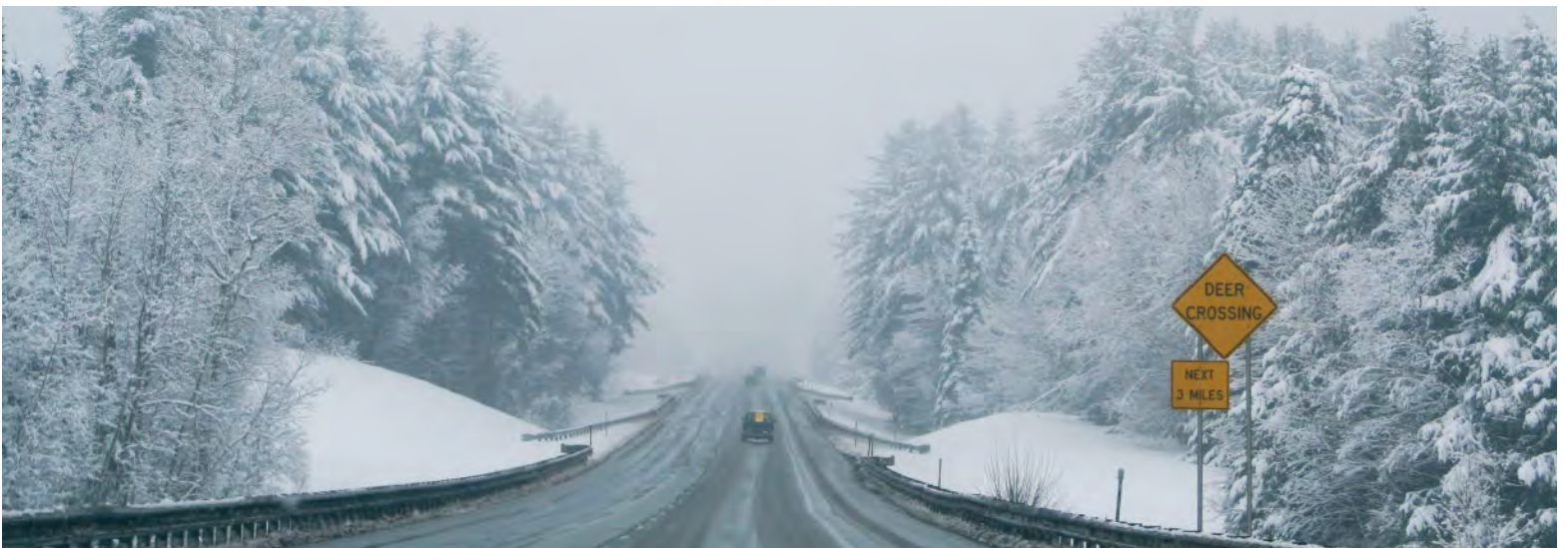
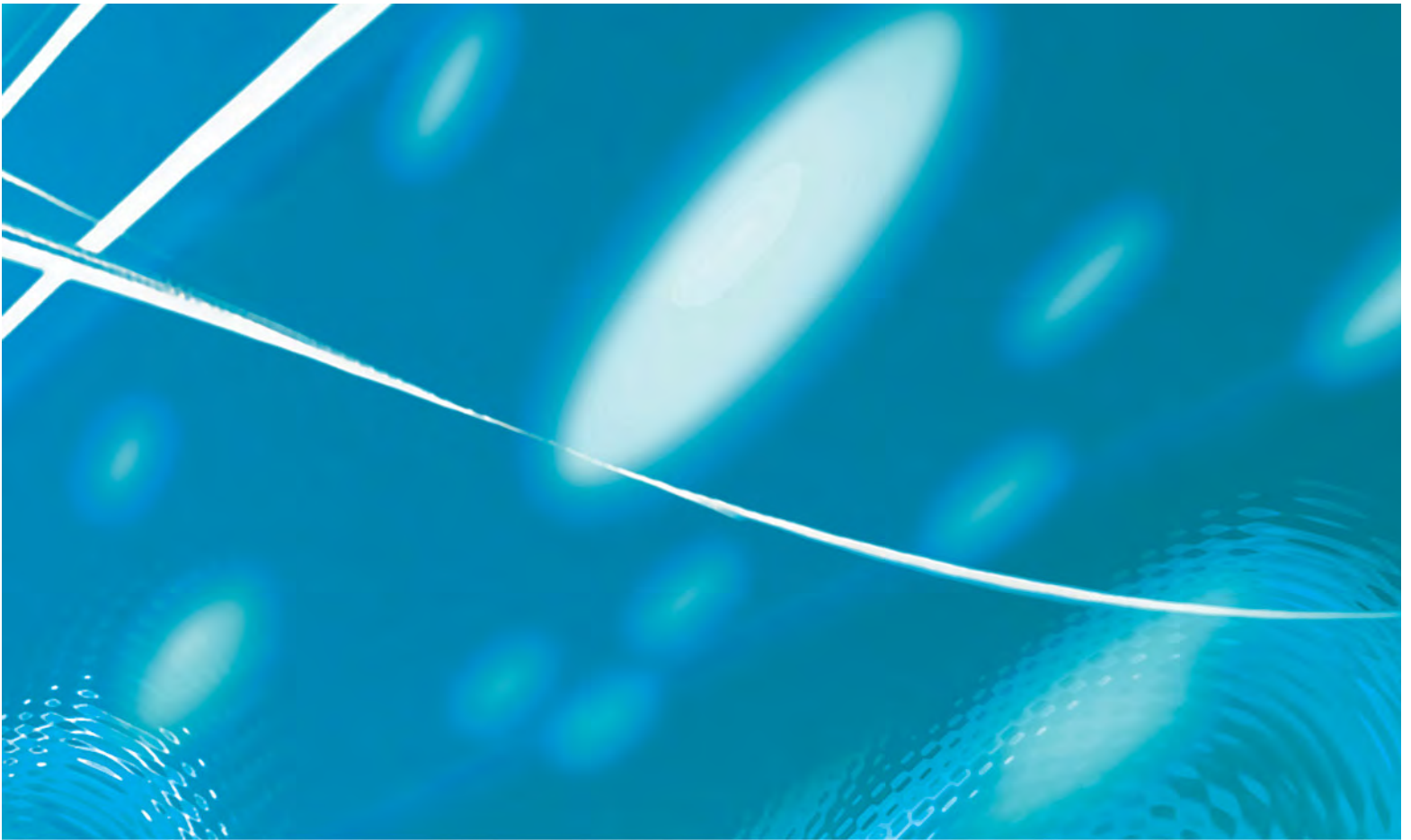
Locating RWIS stations in problem spots, cold regions, bridges and other challenging remote locations will have an instant positive impact on safety and operational efficiency.

## The Road is Clear

Working closely together, we will create a surface weather management plan using the most advanced solutions that push the boundaries to help you deliver the best level of service. All provided by the most experienced team of road professionals in the industry.

## Ensuring Data Quality

- Data Hosting Services
- Sensor Monitoring
- Performance based service contracts



**VAISALA**

[www.vaisala.com](http://www.vaisala.com)

For more information, visit  
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