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The US Air Forces used TMOS (Vaisala TACMET Systems) at the 2002 Winter Olympics for real-time meteorological data from the sports venues. The support for medical and security aviation operations came from the extensive weather support system at the Olympics in which meteorologists from government agencies, private companies and the University of Utah cooperated to provide accurate and timely weather information.



Nowadays, a number of systems provide dynamic advice to motorists on the real-time status of the road network. Most commonly real-time information on congestion allows drivers to take alternative routes to reduce travel time. Road weather systems and variable message signs are also used to improve road safety, for example by the Roads and Traffic Authority of New South Wales in Australia. With the help of dynamic warning signs driving speed can be adjusted as weather conditions change.



Driving safety is a key concern for road authorities. Other than the weather, one of the most interesting factors which affects safety is a vehicle's grip, i.e. the friction between a vehicle's tires and the road surface. Together with the Finnish Road Administration Vaisala conducted a field trial in Southern Finland during the winters of 1999-2000 and 2000-2001, to study which measurement results best indicated a vehicle's grip.

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Summer scenery at Nagu guest harbor on the Finnish archipelago. Photo by Mauri Rautkari, Lehtikuva.

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Vaisala in Brief

– We develop, manufacture and market products and services for environmental and industrial measurements.

– The purpose of these measurements is to provide a basis for a better quality of life, cost savings, protection of the environ-

ment, improved safety and better performance.

– We focus on market segments where we can be the world leader, the preferred supplier. We put a high priority on customer satisfaction and product leadership. We secure our competitive advantage through economies of scale and scope.



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