Intelligent Road
Arctic RWIS demonstration platform

Presented by Mr. Matti Autioniemi, Arctic Power research unit of Lapland University of Applied Sciences, matti.autioniemi@arcticpower.fi

**PROJECT FACTS**

**NAME** Intelligent Road  
**ACRONYM** IR  
**AIM** to demonstrate the applications of road weather technologies in a system level for increased safety  
**FUNDING PROGRAMME** Interreg IV A North  
**DURATION** 2012 – 2014  
**PARTNERS** 3 main research partners, 6 private financers, 4 national public co-financers  
**LEAD PARTNER** Lapland University of Applied Sciences (Arctic Power research unit)

**THE IR-SYSTEM ACQUIRES DATA FROM...**

multiple sources and visualizes it for the road users. The data sources are vehicles equipped with: on-board sensors and CANbus diagnostics, road weather stations (RWS), open traffic data, short-term local weather forecasts, frequently updated road-weather forecasts and local weather stations.

**THE DATA IS STORED TO THE SYSTEM SERVER...**

to be processed and analysed. The demonstration platform uses the data to create a visualization of the current road conditions on the map which is displayed in a public web browser interface and in driver displays.

**THE SYSTEM ALSO FEATURES...**

a modern intelligent road-weather station using IEEE 802.11p communication for communication with by-passing vehicles.

**IN LARGER SCALE, THE AIM IS TO...**

deliver real-time data from the IR-system for improved road weather model development.

www.intelligentroad.eu