



AWARE TODAY. ALIVE TOMORROW.

Pikalert™ Vehicle Data Translator
using passenger vehicles to diagnose the weather



Pikalert combines vehicle-based measurements with traditional weather observations to create road and atmospheric hazard products.

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH [NCAR] FEDERAL HIGHWAY ADMINISTRATION [FHWA]
RESEARCH AND INNOVATIVE TECHNOLOGY ADMINISTRATION [RITA]



NCAR





ANYTIME, ANYWHERE ROAD WEATHER INFORMATION

In a typical year, there are 1.1 million weather-related vehicle crashes in the U.S., leading to 385,000 injuries and over 4,700 fatalities. Adverse weather and the associated poor roadway conditions are also responsible for 554 million vehicle-hours of delay per year in the U.S., with associated economic costs reaching into the billions of dollars.

One possible solution for mitigating the adverse impacts of weather on the transportation system is to provide improved road and atmospheric hazard products to road maintenance operators and the traveling public. With funding and support from the U.S. Department of Transportation's (USDOT) Research and Innovative Technology Administration (RITA) and direction from the Federal Highway Administration's (FHWA) Road Weather Management Program, the National Center for Atmospheric Research (NCAR) is conducting research to develop the Pikalert Vehicle Data Translator that incorporates vehicle-based measurements of the road and surrounding atmosphere with other, more traditional weather data sources, and creates road and atmospheric hazard products for a variety of users.

FOR MORE INFORMATION ON THE PIKALERT: WWW.RAL.UCAR.EDU

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