



# UNIVERSITY TRANSPORTATION CENTER RESEARCH BRIEF

**PROJECT TITLE:** Low Cost High Density RWIS Development Phase II

**PRINCIPAL INVESTIGATOR:** Billy Connor (UAF)

**INSTITUTION:** SINGLE-INSTITUTION PROJECT

**ESTIMATED COMPLETION DATE:** JANUARY 2018

**SPONSORS:** THE PACIFIC NORTHWEST TRANSPORTATION CONSORTIUM, WEATHERCLOUD



## **Background**

Remote Weather Information Systems (RWIS) are commonly used to provide DOT's and the public with current weather information along highways. WeatherCloud in partnership with UAF and PacTrans has developed a RWIS that costs about 1/10 the cost of previous RWIS. As part of the development process it was recognized that communications remain a barrier to the deployment of RWIS in very remote areas. WeatherCloud developed a Weather Mesh which allows each RWIS to relay information from RWIS around it to a connected site. The purpose of this study is to test the Weather Mesh system in remote Alaska over a winter.



## **Research Project**

WeatherCloud is a leader in the development of mobile observation platforms as part of a Maintenance Decision Support System. Working with Billy Connor, WeatherCloud adapted this technology to low cost Remote Weather Information Systems. Prototypes of these systems have been in operation over the last year in Texas, Arizona, Colorado and Alaska. Billy Connor has been involved with the MDSS implementation including the implementation of the mobile platforms over the past 5 years.

