

A photograph showing several large trucks, likely snowplows or maintenance vehicles, operating on a snowy road. The scene is hazy, suggesting a winter or snowy environment. The trucks are moving from left to right across the frame.

# PennDOT RWIS Network Deployment

Pennsylvania Department of Transportation



# RWIS Deployment Plan

- RWIS System Replacement / Upgrade
  - Field selected 52 previously existing sites for complete replacement or upgrade
  - 12 Locations selected for completely new site installation
  - Additional 3 “present weather” sites to be installed on bridges to monitor crosswind conditions
  - RFP process took over 18 months
  - Original planned completion date was November 1, 2015

## RWIS Contract Overview

- Vaisala Inc. was awarded the contract
- Five Year Contract with two one-year renewals
- Contract includes system deployment, web hosting with Navigator interface, winter severity index and full site maintenance
- Contract includes option to install up to two new RWIS sites, weather stations or upgrade/refurbish two existing sites, per year

## RWIS Contract Overview

- Contract contains service-level agreements for system maintenance and up-time
  - Monthly lump-sum payments determined by percentage of cumulative site up-time each month
  - Example: 96% up-time for the month = 96% of monthly unit-cost due
- Reports include Winter Severity Index (WSI) reporting, which is based on a separate PennDOT study of WSI formulation
- Up to three user training sessions / WebExs per year

## Accomplishments and Issues

- Majority of RWIS equipment has been installed without issue
- Power connectivity was not readily available at all sites
  - Refurbished site was previously solar powered (Old Nu-Metrics sites)
- Sites in need of new power service were delayed due to slow turnaround by utility companies to turn on service
- Better vendor communication with district staff could have more quickly resolved issues such as site placement and power connections

## Accomplishments and Issues

- As of April 1, 2016, 34 sites have been completed (11 sites completed by November 1, 2015)
- Anticipating complete deployment by July 1, 2016
- 9 additional sites identified to be deployed by maintenance districts via work order under the current contract