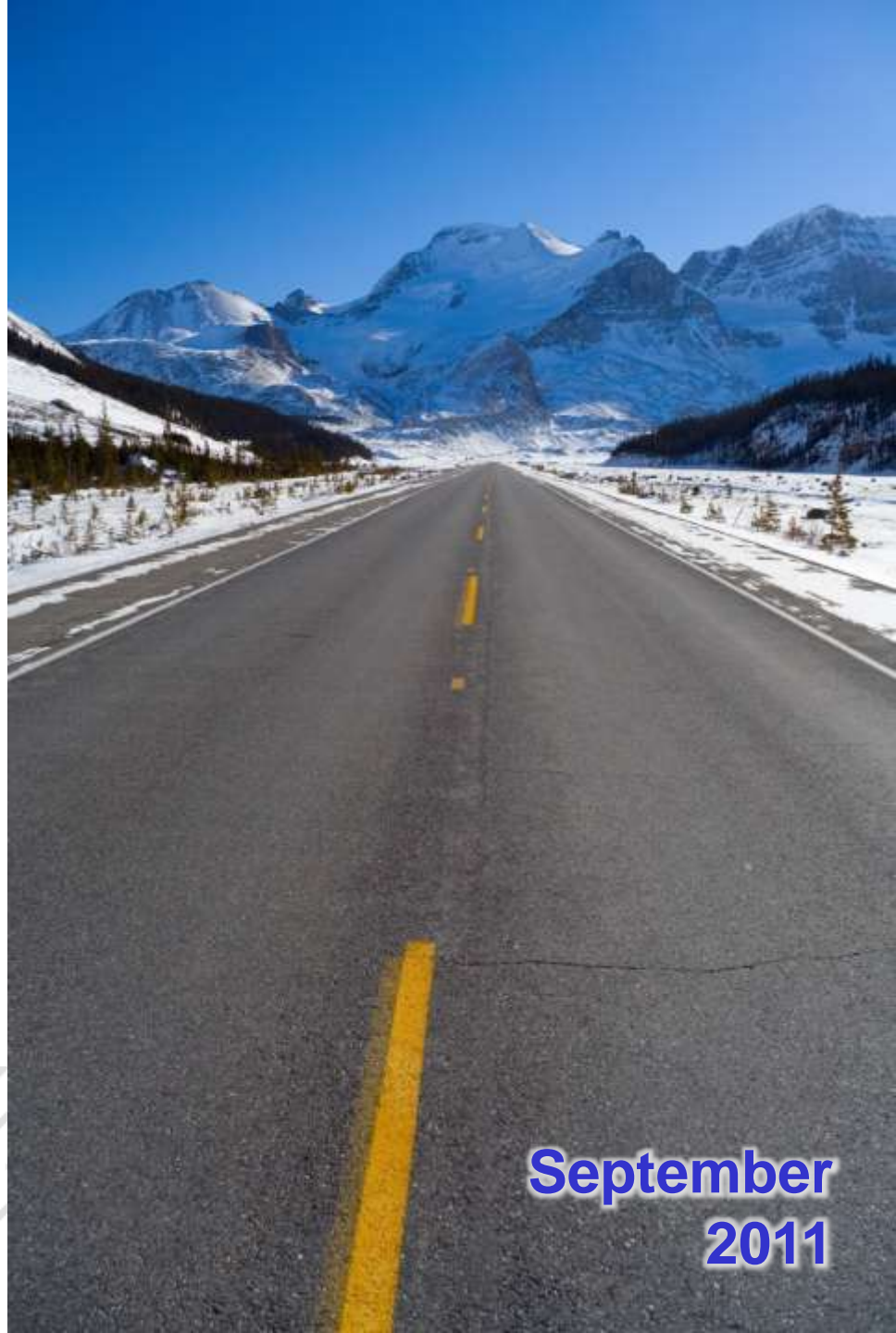





**working to advance road weather
information systems technology**

**Road Weather
Management
Stakeholder Meeting**



**September
2011**

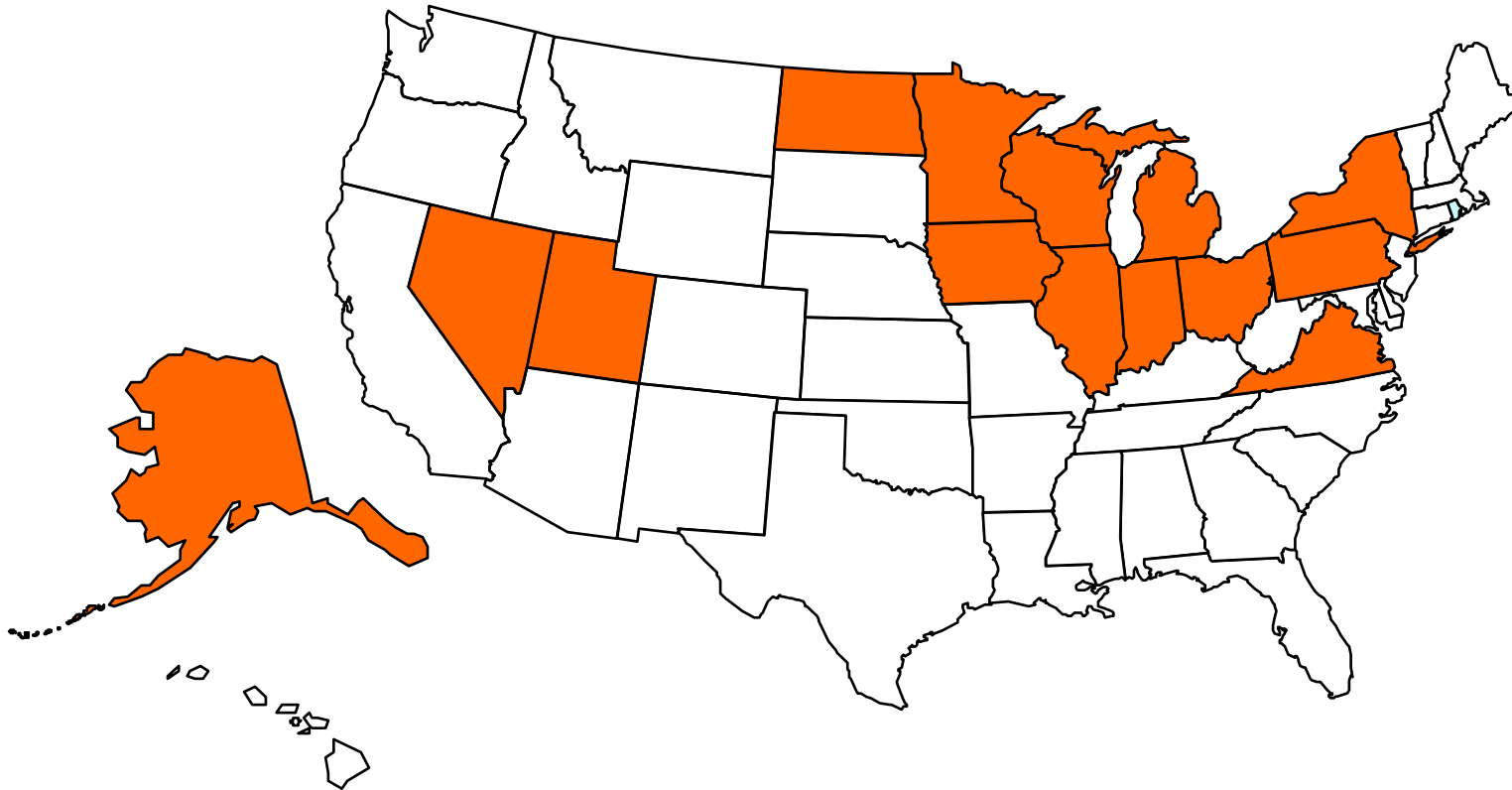
Aurora is an international partnership of public agencies who work together to perform collaborative **research activities, **development**, **advocacy**, and **deployment** in the area of road weather information systems (RWIS).**





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Active Participants





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Affiliates/Partners

- National Center for Atmospheric Research (NCAR)
- Meteorological Service of Canada
- Swedish Meteorological and Hydrological Institute
- Penn State University
- University of North Dakota
- University of Minnesota
- University of Wisconsin – Madison
- University of Wisconsin – Milwaukee
- Purdue University
- Massachusetts Institute of Technology
- Iowa State University
- Ohio University
- University of Waterloo
- University of Gotenburg
- University of Utah



Ongoing Projects

- 21 Ongoing Projects, covering areas of:
 - Equipment Evaluation
 - Standards / Architecture
 - Site Operations / Quality Assurance
 - Information Outreach
 - Decision Support / Modeling
 - Road Condition Monitoring

***Reviewed during "project updates" portion
of each board meeting***

Key Ongoing Projects

- ❑ 2011 National Winter Maintenance Peer Exchange
- ❑ Development of a National Road Weather Testing Program
- ❑ Enhancements of AI/RWIS CBT
- ❑ Mobile Weather Data Collection Guidelines
- ❑ Multiple-Use ITS Data Collection Practices
- ❑ RWIS Equipment Monitoring System, Phase 2
- ❑ RWIS Sensor Density Grid
- ❑ Support of the Clarus Initiative
- ❑ Study of MDSS Costs





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Aurora Program Web Site:

www.aurora-program.org

Aurora Program Chair:

Joe Doherty, New York State DOT





research for winter highway maintenance

Mike Adams

Weather Management Solutions

Wisconsin DOT

What is Clear Roads?

National research program focused on winter highway operations

FHWA Pooled fund project #TPF-5(218)

Clear Roads

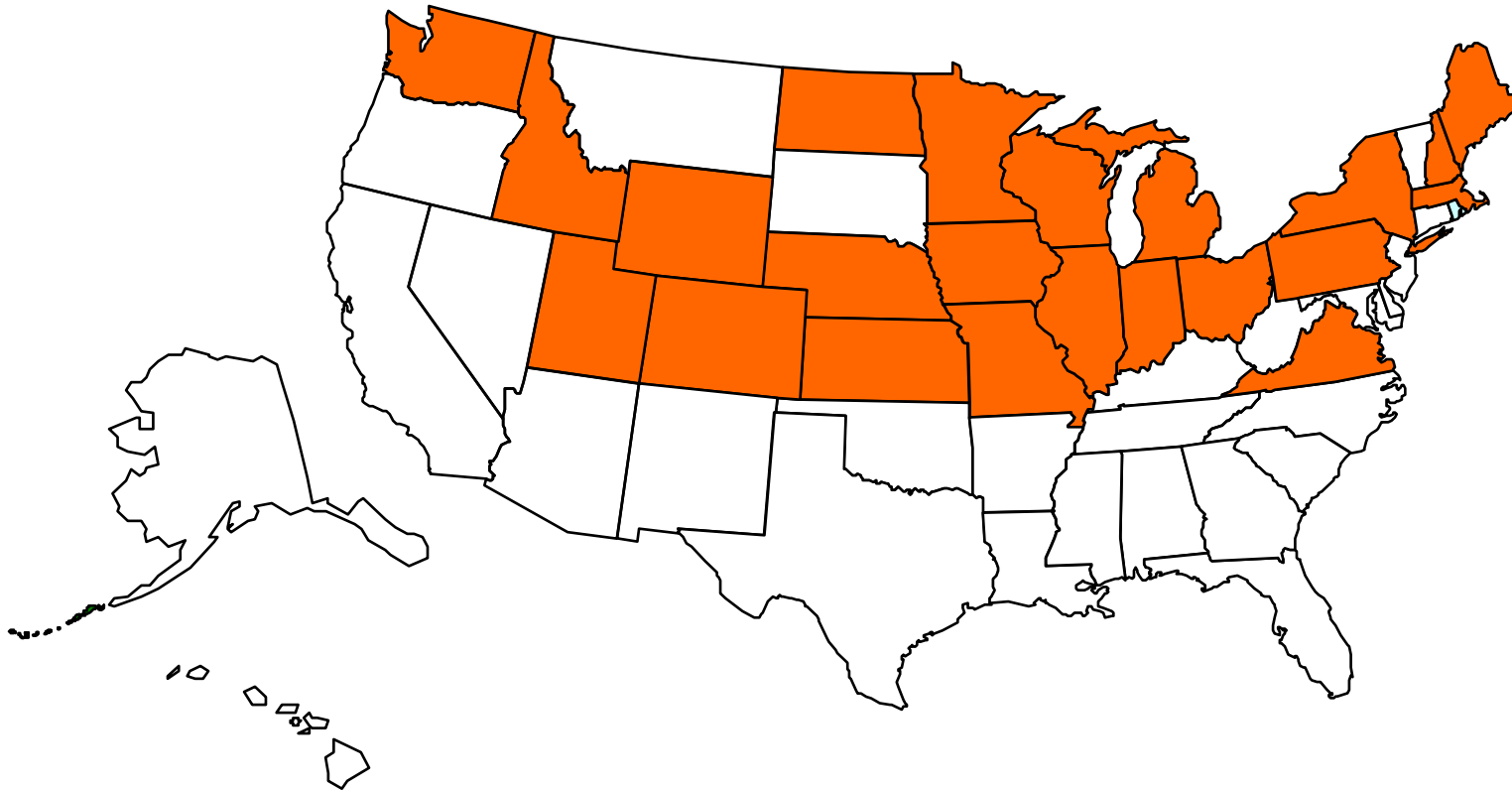
Applied research for winter maintenance

Rigorous testing of winter maintenance materials, equipment and methods

Emphasis on field testing, practical applications and usable results

Clear Roads Member States

August 2011



research for winter highway maintenance

What Do We Do

Research Projects

Partnership Projects

Transportation Synthesis Reports

Reports and Website

Recently Completed Projects

- Development of Interface Specifications for Mobile Data Platforms on DOT Vehicles
- Toolkit for cost-benefit analysis of specific winter maintenance practices, equipment, and operations
- Effective implementation of liquid-only plow routes
- Standardized procedures for evaluating deicing chemicals

Partnership Projects

National Winter Maintenance Peer Exchange

National Winter Safety Campaign

Computer-Based Training

Snowplow Design Project



research for winter highway maintenance

Contact:

Paul Brown , Massachusetts Highway Department

(617) 973-7792