

Maintenance Decision Support System Annual Stakeholders Meeting

3rd National Symposium on Surface Transportation Weather (3NSTWS) Summary and Insights

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Sponsors:

- National Oceanic and Atmospheric Administration (NOAA) - Office of the Federal Coordinator for Meteorological Services and Supporting Research (OFCM)
- Road Weather Management Program
Federal Highway Administration (FHWA)

Professional Partners:

- Surface Transportation Weather Task Force
Transportation Research Board
- Intelligent Transportation Systems & Surface Transportation
Committee American Meteorological Society
- Weather Information Applications Special Interest Group
ITS America

Symposium Summary & Insights



Theme:

IMPROVING COMMERCE & REDUCING DEATHS & INJURIES
THROUGH INNOVATIVE, WEATHER-RELATED R&D AND
APPLICATIONS FOR THE SURFACE TRANSPORTATION SYSTEM

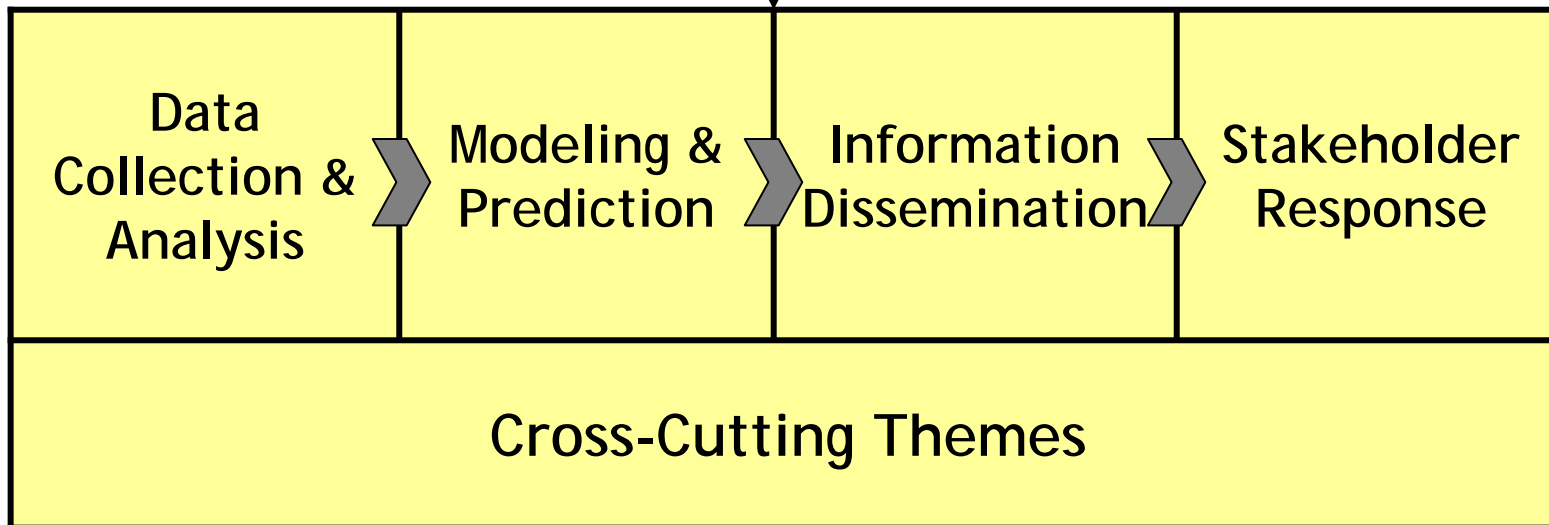
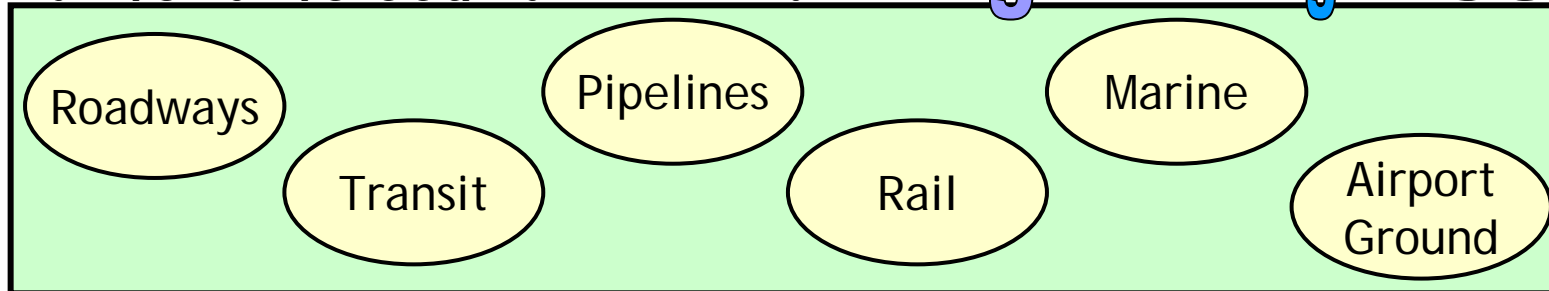
Objectives:

- Observation strategy
- Priorities, challenges & opportunities
- Products & Services
- Socioeconomic impacts
- Information Dissemination technologies
- Partnerships



Approach --- R&D Needs:

Rain/Snow/Sleet/Hail Wind Fog Flooding Ice



Symposium Summary & Insights



Logistics

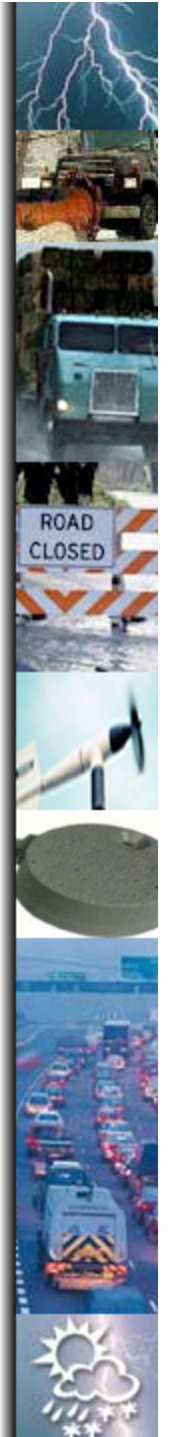
- Location - Vienna, Virginia
- Attendance - 132+ people
- Sessions -
 - Improving Economic and Life Decisions: Social and Economic Impacts and Benefits
 - Modeling and Prediction: Required Products and Services
 - Weather Information Dissemination in Support of Effective Decision Making
 - Creating Synergy in All Components of Surface Transportation Weather Applications

Symposium Summary & Insights



Keynote Address

- ❖ Jeffrey N. Shane, Under Secretary of Transportation for Policy.
 - Importance of weather
 - Partnership and collaboration
 - Cross-departmental coordination



Keynote Address

- ❖ VADM Conrad C. Lautenbacher, Jr., USN (Ret.),
Under Secretary of Commerce for Oceans and
Atmosphere/Administrator NOAA
 - Nation's Commerce
 - Importance of Partnerships
 - Working together
 - User needs



Keynote Address

- ❖ **Dr. Gene Whitney**, Assistant Director for Environment, Office of Science and Technology Policy, Executive Office of the President.
 - Surface Transportation and Earth Observations & Climate Change
 - U.S. Climate Change Science Program
 - Integrated Earth Observation System



Results

- ✓ Current and Emerging Capabilities and Transition of Research to Operations activities to Improve products and services.
- ✓ Getting the Right Message Out - Need for Social Involvement.
- ✓ Education and Outreach.



Results (Cont.)

- ✓ Need for Metrics to Measure Success and Guide resource Allocation. The following is a draft set of metrics to consider:
 - » A 5-year target of a 25% reduction in roadway weather-related injuries?
 - » A 10-year target of a 50% reduction in roadway weather-related injuries?
 - » A 5-year target of a 25% reduction in roadway weather-related congestion?
 - » A 10-year target of a 50% reduction in roadway weather-related congestion?

- ✓ Gaps and Research Priorities.

- ✓ Opportunity for a Near-Term Intermodal initiative.



Recommended Action Items:

- Develop an integrated observing strategy.
- Establish several high-level R&D priorities.
- Consider sponsoring a multimodal surface transportation weather demonstration project (road/rail/maritime/pipeline/ etc.).
- Conduct socioeconomic surveys of impacts and needed format/semantic changes.

Symposium Summary & Insights



3rd National Symposium on Surface Transportation Weather

Symposium web site:

<http://www.ofcm.gov/wist/wist.htm>

**Please check the web site for symposium
information, presentations, and summary
report.**

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FHWA Resource Center

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