MDSS Stakeholder Meeting #10
Overview & Objectives

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August 6, 2008
Silver Legacy, Reno, NV
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The MDSS Project

- 33% of the attendees today are participating in a MDSS stakeholder meeting for the 1st time
- MDSS began in 1999 out of a study of weather and rural highways. It was recognized that there was a disconnect between road weather forecasts, and the decisions made by the maintenance community.
The MDSS Project

- The **objective** is to bring the weather and transportation communities together to define and develop a system that translates current and predicted road & weather information into recommended maintenance actions.

- The **goal** is to improve the productivity and cost efficiency of transportation agencies which translates into improved mobility and safety on the nation’s roads.
The MDSS Project

- The development strategy was unique in that we built a prototype based on open system principles, and fostered an MDSS market by making that prototype freely available.
- A consortium of 5 national laboratories collaborated to develop the MDSS federal prototype.
- All of the engineering documents, field test results and source code can be obtained at the NCAR web site: www.rap.ucar.edu/projects/rdwx_mdss/
State DOT Participation

Number of State DOTs Participating in MDSS Meetings

![Graph showing the number of State DOTs participating in MDSS Meetings over different meeting numbers. The graph indicates fluctuations in participation throughout the meetings.]
Stakeholder Participation

State DOT Participation in
Maintenance Decision Support System (MDSS)
2000 - 2008

40 State DOTs + DC

<table>
<thead>
<tr>
<th>U.S. &amp; Int’l Stakeholders who participated in Annual Meetings</th>
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<tbody>
<tr>
<td>Ontario Ministry of Transportation</td>
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<tr>
<td>Environment Canada</td>
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<tr>
<td>City of Grand Prairie, TX</td>
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<tr>
<td>Dallas Area Rapid Transit</td>
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<tr>
<td>City of Virginia Beach, VA DPW</td>
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<tr>
<td>City/County of Denver, CO</td>
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<tr>
<td>New York State Thruway Authority</td>
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<td>Austrian Road Authority</td>
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<td>E-470 Highway Authority Colorado</td>
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<td>McHenry County, IL Division of Transp</td>
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6th Clarus & 10th MDSS Stakeholder Meetings, August 4-7, 2008, Reno, NV
MDSS #10 Attendees

Additional DOT Participants
McHenry County, IL
City of Virginia Beach, VA
Environment Canada
Ontario Ministry of Transportation
City/County of Denver, CO
NY State Thruway

Confirmed State DOTs (28)
Private Sector Attendees

- Boschung Mecatronic
- DTN/Meteorlogix
- IWAPI, Inc.
- Meridian Environmental Technology
- Quixote Transportation Technologies
- Vaisala, Inc.
- WSI Corporation
Academic Sector & Int’l Attendees

• National Center for Atmospheric Research
• New Jersey Institute of Technology
• Ontario Ministry of Transportation
MDSS Deployments

Pooled Fund Deployment (Meridian Environmental Technology)

DTN/Meteorlogix (WeatherSentry subscribers with MDSS Winter Pavement Treatment Recommendations)
Meeting Objectives

• Update stakeholders on the program
  - Provide updates on development & deployment activities of the different systems
  - Discuss the importance of Cost/Benefit Analyses
  - Capture experiences from last winter

• Share your experiences
  - In nearly all sessions, time has been provided for interaction. Please participate!
  - A survey will be conducted after the meeting. Details provided via email.
Session Topics

- Session 2: Status of public MDSS activities
  - Federal prototype & Pooled Fund updates
- Session 3: In-depth discussion of Cost/Benefit Analyses
  - Updates on current analyses
- Session 4: Users’ experiences and topical discussion on MDSS
  - Everything is on the table!
Session Topics

• Session 5: Outreach
  - New MDSS Deployment Guide
  - Product Demonstration Showcases
  - AASHTO TIG
  - Expanding functionality beyond snow & ice

• Session 6: Private Sector Forum
  - A showcase for new and innovative technologies related to MDSS and winter maintenance