Welcome to the Maintenance Decision Support System Stakeholder Meeting – 2003 Des Moines, Iowa

Sponsored by: U.S. Department of Transportation Federal Highway Administration

Local Host: Iowa Department of Transportation
The Iowa Division of the Federal Highway Administration welcomes everyone to the 2003 MDSS Stakeholder Meeting.

Jim Brachtel
ITS/Design & Traffic Operations Engineer

A special congratulations to Phil Barnes, the new Administrator for the FHWA Iowa District Office
The Iowa Department of Transportation welcomes you to Iowa and the city of Des Moines

John Adam, P.E.
Director, Highway Division, Statewide Operations Bureau
Iowa Department of Transportation
Paul Pisano, Team Leader
Road Weather Management Program
Federal Highway Administration

Federal sponsor of the Maintenance Decision Support System project
Goals for the 2003 MDSS Stakeholder Meeting

1. Report on the results of the **MDSS Field Demonstration** that took place in the Des Moines/Ames area last winter

2. Discuss potential **next steps** for the MDSS project

3. Promote **technology transfer** to the states via the private sector

4. Provide an **open forum** to share experiences. The stakeholder process works best when you participate. Any time that you have a comment or question, let us know!
Goals of the MDSS Project

The Big Picture:

• **Visibility**: Foster an environment that focuses cutting edge research on surface transportation weather issues

• **Leverage**: Bring together scientific expertise from many national resources and utilize prior investments

• **Tech Transfer**: Cultivate new relationships with private sector partners who will be able to take the research and integrate these new technologies into their product lines
For State Departments of Transportation, the goal is to provide:

- Better road-specific forecasts
- A higher level-of-service on roadways
- A cost savings from reduced use of chemicals and manpower
- Less impact on the environment
What Does **Success** Look Like?

The FHWA measures success against gains in **safety**, **mobility** and **productivity**.

Success in the MDSS project can be summarized by these series of milestones:

- **#1** MDSS Modules become mature enough for VAMS to **integrate** them and states to **invest** in them

- **#2** Further research and module development could be accomplished through **partnering/cost sharing** (e.g. pooled-fund arrangements)

- **#3** Use MDSS core technologies to begin to **solve problems** in other areas of transportation (e.g. TM/EM)
Organization of the Stakeholder Meeting

• Similar topics are grouped into sessions (see your agenda)

• Day 1 – Tuesday
  • **Session 1** - Welcome and Opening Remarks
  • **Session 2** - MDSS System and Demonstration Overview
    Mid Morning Break – Light Refreshments Served
  • **Session 3** - Demonstration Statistics and Lessons Learned
  • **Session 4** - Lessons Learned and User Perspectives
    Mid Afternoon Break – Light Refreshments Served
  • **Session 5** - Additional MDSS Issues
  • **Session 6a** - Non-Federal Decision Support Systems (Part 1)

• Day 2 – Wednesday
  • **Session 6b** - Non-Federal Decision Support Systems (Part 2)
    Mid Morning Break – Light Refreshments Served
  • **Session 7** - MDSS: Where do we go from here?

All presentations will be available on the NCAR MDSS site within 2 weeks at  [http://www.rap.ucar.edu/projects/rdwx_mdss/index.html](http://www.rap.ucar.edu/projects/rdwx_mdss/index.html)
Meeting Reminders

For State DOT Personnel (eligible for reimbursement):
- You do NOT need receipts for your food expenses. That will be covered under your per diem allowance.
- The daily per diem allowance will be reduced because breakfast is included with your room.
- The hotel provides a ‘Manager’s Reception’ with free food and drinks for guests. Per diem will not be reduced if you choose to eat there.
- You must have and present original receipts for all other expenses per your signed “terms of agreement” form.

For the General Stakeholder Group:
- Light Refreshments will be served during all breaks.
- Meals are not organized and will be on your own. A listing of area restaurants will be provided as we approach the lunch break.
- We plan on adjourning at noon on Wednesday. However, some of the most important work in this meeting will take place during the late morning on Wednesday.
2003 MDSS State DOT Stakeholders

30 Participants Representing 24 States

Other Public Organizations Attending
- AASHTO
- Aurora
- NY State Thruway Authority
- FHWA South Dakota & Iowa Offices
MDSS Stakeholders from Canada
2002 - 2003

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<tr>
<th>Name of Organization</th>
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<td>AMEC Earth and Environmental</td>
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2003 Canadian Stakeholders
Meteorological Service of Canada-Ontario
World Weather Watch-Ontario
Historical Perspectives of the MDSS Project

- The MDSS began in 1999 with the STWDSR project (Surface Transportation Weather Decision Support Requirements)

- The goal of STWDSR was to provide background to stakeholders to gather requirements for the WIST-DSS (Weather Information for Surface Transportation – Decision Support System)

- The WIST-DSS matured and became known as the MDSS (Maintenance Decision Support System)

- Since 2000, the FHWA has sponsored five stakeholder meetings
Meeting #1 February 2000
Forecast Systems Lab – Boulder CO

- Discussed initial concepts
- Presented weather scenarios
- Gathered requirements
Meeting #2 May 2000
Volpe National Transportation Center
Cambridge MA

- Discussed Requirement Outcomes
- Refined Requirements
- Began Operational Concept
Meeting #3 June 2001
Cold Regions Research and Engineering Lab
Hanover, NH

- Solidified Operational Concept
- Used Storyboards to conceptualize interface
- Began plans for a prototype system
Meeting #4 June 2002
National Center for Atmospheric Research
Boulder, CO

- Presented prototype system (canned data)
- Planned operational field test for winter 2002-2003
Meeting #5 June 2003
Des Moines, IA

- Discuss outcomes from 1st field demonstration
- Discuss future directions for the project
Thank You for your Participation!

This project would not be possible without all of you, the stakeholders.

At any time during the upcoming day and a half, if you don’t understand something – speak up!

A draft list of attendees has been made available. A final list will be sent out via email after the meeting has concluded.

All presentations will be made available for download on the NCAR MDSS web site at within 2 weeks at:

http://www.rap.ucar.edu/projects/rdwx_mdss/index.html

Additional Comments? Contact Paul Pisano at

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