Maintenance Decision Support System (MDSS) Focus Technology

David Huft
South Dakota Department of Transportation
TIG Vision & Mission

...a culture where rapid advancement and implementation of high payoff, innovative technologies is the expectation of the transportation community.

The purpose of the TIG is to identify and champion the deployment and implementation of a select few ready-to-use technologies, products, or processes that are likely to yield significant benefits to the transportation community.
TIG Membership

- Ananth Prasaud, FL (Chair)
- John Polasek, MI
- Mike Shamma, NY
- M.G. Patel, PA
- Malcom Kerley, VA
- Tara Stewart, DE
- Harry James, MS
- Kevin Chesnik, WI
- Valerie Edgar, MD
- David Huft, SD
- Randy Iwasaki, CA
- Amadeo Saenz, TX

- Fred Hejl, TRB
- Art Dinitz, Industry
- Tony Giancola, NACE
- Doyt Bolling, Utah LTAP
- Byron Lord, FHWA
- John McCracken, FHWA
- Keith Platte, AASHTO
TIG Role in Innovation

TIG’s Role in the Technology Lifecycle

Research
Lead States Pursue Practical Applications
TIG
Industry Practice
TIG Process

- Identify & Solicit “Ready to Use” Technologies
- Select High-Payoff Technologies for Focus
- Provide Leadership to Promote & Support Implementation
- Identify Technology Champions
- Fund Outreach Efforts

- Create Partnerships (Lead States Teams)
- Formulate Approaches for Rapid Development
  - Conferences
  - Showcases
  - Workshops
  - Marketing
  - Brochures
  - Manuals
  - Videotapes
## Nomination Form 2007

### AASHTO Technology Implementation Group
Nomination of Technology Ready for Implementation

**NOMINATIONS DUE BY FRIDAY, SEPTEMBER 14, 2007**

**Nominees shall be identified by an AASHTO member department willing to help implement the technology.**

### Direct TIG Beneficiary (25 words max)

**The term technology may include processes, products, devices, and services.**

### Status of Development (25 words max)

**Technology must be sufficiently developed toward the DOT.**

### Summary of Development (50 words max)

**The TIG speaks with one voice and technolgies will be evaluated based on their potential to be implemented.**

### Description of Technology

**The technology is defined as the combination of benefits, applicability, and significant benefit or advantage over other currently available technologies.**

<table>
<thead>
<tr>
<th>13. What does the technology meet customer or stakeholder needs in your organization or others that have used the technology?</th>
</tr>
</thead>
<tbody>
<tr>
<td>14. Please describe the potential extent implementation in terms of geography, agency type, and size, or other relevant factors, how widely might the technology be deployed?</td>
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<tr>
<td>15. What other issues would another transportation agency need to know to adopt this technology?</td>
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<td>16. What is the estimated cost, effort, and length of time required to deploy the technology in another transportation agency?</td>
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<td>17. What resources—such as technical specifications, training materials, and user guides—are available to assist deployment?</td>
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<td>18. What organizations currently supply and provide technical support for the technology?</td>
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<td>19. Please describe any legal, environmental, social, intellectual property, or other barriers that could affect ease of implementation.</td>
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</tbody>
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### AASHTO Contact

- Name: [Name]
- Phone: [Phone Number]
- Email: [Email Address]

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**American Association of State Highway & Transportation Officials**

444 North Capitol Street N.W., Suite 649
Washington, DC 20001
TIG MDSS Lead States Team

Lead States Team

• David Cornett (KY)
• Allen Williams (VA)
• Steve Palmer (MI)
• Tony McClellen (IN)
• Phillip Anderle (CO)
• Ray Murphy (FHWA)
• David Huft (SD)

Friends & Helpers

• Keith Platte (AASHTO)
• Monica Worth (media consultant)
• Doyt Bolling (UTLTAP)
• Steve Moler (FHWA)
• Tom White (FHWA)
• Emily Noem (SD)
Outreach Approaches

- Multi-media PowerPoint
- Brochure
- Regional Workshops
- Product Showcase
- Individual State Road Shows
- Support Implementation Guide

- Target Decision Makers
- Highlight Case Histories
- Involve Private Sector
- Partner with FHWA
- Stay “Brand Neutral”
MDSS Brochure

• Targets maintenance managers
• Maintenance worker version to follow
• Reinforces presentation theme
• 8 pages
• Illustrations
• Contact information
• Available October ‘07
MDSS Presentation

- Targets maintenance managers
- PowerPoint based
- Narrated
- Key video clips
- Several photos
- “Teacher” and “Student” versions
- 508 (ADA) Compliant
- Available October ‘07
# MDSS Outreach Timetable

<table>
<thead>
<tr>
<th>Phase</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
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<tbody>
<tr>
<td>Develop Work Plan</td>
<td></td>
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<tr>
<td>Develop “Message”</td>
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<tr>
<td>Produce PowerPoint</td>
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<td>Produce Brochures</td>
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<td>Regional Workshops</td>
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<td>State Visits</td>
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<tr>
<td>Close-out</td>
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For Additional Info...

Keith M. Platte
Program Manager for Engineering
AASHTO
444 North Capitol Street N.W., Suite 249
Washington DC 20001
Phone: 202.624.7830
Fax: 202.624.5469
kplatte@aashto.org

David L. Huft
Research Program Manager & ITS Coordinator
South Dakota Department of Transportation
700 East Broadway Avenue
Pierre, SD  57501-2586
Phone: 605.773.3358
Fax: 605.773.4713
dave.huft@state.sd.us

http://aashtotig.org