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

- Kevin Chesnik, WI (Chair)
- Brian Blanchard, FL
- Valerie Edgar, MD
- David Huft, SD
- Malcom Kerley, VA
- Randy Iwasaki, CA
- James McMinimee, UT
- Mike Shamma, NY
- Brian Thompson, PA
- Fred Hejl, TRB
- Art Dinitz, Industry
- Tony Giancola, NACE
- Byron Lord, FHWA
- Keith Platte, AASHTO
- Len Sanderson, Industry
TIG Role in Innovation

TIG’s Role in the Technology Lifecycle

Research

Lead States
Pursue
Practical
Applications

TIG

Tech Transfer

State
State
State
State

State
State
State
State

State
State
State
State

State
State
State
State

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
Due September 11, 2009

2009 Nomination Form

AASHTO Technology Implementation Group
Nomination of Technology Ready for Implementation
2007 Normations Due by Friday, September __, 2007

<table>
<thead>
<tr>
<th>Nominations (must be submitted by an AASHTO member department willing to help promote the technology)</th>
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<tbody>
<tr>
<td>1. State DOT:</td>
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<tr>
<td>2. Name:</td>
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<tr>
<td>3. Organization:</td>
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<tr>
<td>4. Name:</td>
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<td>5. Date Submitted:</td>
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<table>
<thead>
<tr>
<th>State</th>
<th>Region</th>
<th>District</th>
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4. Is the adopting state DOT willing to promote this technology to other states by participating on a Lead States Team supported by the AASHTO Technology Implementation Group? (Yes or No)

<table>
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<th>Yes</th>
<th>No</th>
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5. Name the technology:

6. Briefly describe the technology:

7. Please attach photographs or other images that illustrate the appearance or functionality of the technology. (Yes, images are attached. No, images are attached.)

8. Briefly describe the history of the technology’s development:

9. Technologies must be successfully deployed in at least one state prior to nomination. This process will award technologies that have advanced beyond the research stage, at least to the pilot deployment stage, and preferably into routine use.

10. Not how long and in approximately how many applications has your organization used this technology?

11. What additional development is necessary to enable routine deployment of the technology?

12. Have other organizations used this technology? If yes, please list organizations and contacts.

13. Payoff is defined as the combination of those applicability and significant benefits or advantages over any other currently available technologies.

14. What type and scale of benefits has your organization realized from using this technology? Include cost savings, safety improvements, transportation efficiency or effectiveness, environmental benefits, or any other advantages over other existing technologies.

15. What actions would another transportation agency need to take to adopt this technology?

16. What is the estimated cost, effort, and length of time required to deploy the technology in another transportation agency?

17. What resources—such as technical specifications, training materials, and user guide—are available to assist deployment?

18. What organizations currently supply and provide technical support for the technology?

19. Please describe any legal, environmental, social, institutional, fiscal, or other barriers that could affect ease of implementation.

20. Any other comments or questions.

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<th>AASHTO Contact</th>
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<tbody>
<tr>
<td>Keith F. Platte</td>
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<td>American Assn of State Highwy &amp; Transportation Officials</td>
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<td>444 North Capitol St. N.W., Suite 429</td>
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<td>Washington, DC 20001</td>
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</table>
# TIG MDSS Lead States Team

**Lead States Team**
- David Cornett (KY)
- Allen Williams (VA)
- Tony McClellen (IN)
- Phillip Anderle (CO)
- Ray Murphy (FHWA)
- David Huft (SD)

**Partners**
- Keith Platte (AASHTO)
- Monica Worth (media consultant)
- Doyt Bolling (Utah LTAP)
- Steve Moler (FHWA)
- Tom White (FHWA)
- Mark Sandifer (FHWA)
Outreach Approaches

- Multimedia Presentation
- Executive Brochure
- Field Staff Brochure
- Case Histories (ND, CO)
- Regional Product Demonstration Showcases (NE, PA, ID)
- State Visits, Road Shows
- Market Deployment Guide
- AASHTO Committees

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

- Targets maintenance managers
- Field staff version to follow
- Reinforces multimedia presentation theme
- 8 pages
- Illustrations
- Contact information
MDSS Multimedia Presentation

- Targets maintenance managers
- Narrated
- Video Clips
- Photographs
- 508 (ADA) Compliant
Multi-Product CD

Interactive Slide Show
PDF Brochure
Web Resources
For Additional Info...

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