No Boundaries Roadway Maintenance Practices
Pooled Fund
Innovation Database

Brian Hirt, No Boundaries Phase II Program Manager
What is No Boundaries

- Pooled fund project (formerly #TPF-5(330), now Solicitation #1504)
  - A community of practice for roadway maintenance professionals
  - Identify innovative technologies and practices used by DOTs
  - Promote their use across states through marketing materials, training classes, webinars and other technology transfer efforts
- Complements AASHTO MaC peer discussions and relationships
- Focus on spring/summer/fall maintenance needs; excludes winter-specific maintenance
Pooled Fund Members
20 State DOTs

NO BOUNDARIES
MEMBERS

SCDOT
Maryland Department of Transportation
Ohio Department of Transportation
Virginia Department of Transportation
North Dakota Department of Transportation
Illinois Department of Transportation
MaineDOT
MoDOT
DOTD
Texas Department of Transportation
Centennial FDOT
Washington State Department of Transportation
MDOT

maintainroads.org
Benefits

• **Networking and collaboration with other agencies**
  - Happens at a national level
  - Two-way street

• **Practitioner oriented**
  - Hands-on and usable today
  - Share new and better equipment, materials, procedures

• **Consistency across agencies**
  - Performance-based maintenance
  - Transportation asset management
  - Shared research (statements and outcomes)

• **Cost effective**
  - Minimize duplication of effort
Meetings for Peer Information Sharing

- Peer exchanges for members once or twice yearly
- Presentations by state DOTs and guest agencies:
  - Innovations
  - Program updates
  - Round table discussions
- Technical Tours
Maintenance technical tours

- **Austin:** TxDOT Vehicle Fabrication Shop
- **Denver:** I-70 Eisenhower Tunnel
Innovation has become a key focus area for No Boundaries... for all areas related to maintenance:

- Equipment and materials
- Asset management
- Program management
- Recruitment, training, engagement and retention
- Contracting
A range of innovations...

Solar Gore Point Warning Flasher

Drone Herbicide Sprayer

Safety

Roadside
Spotlight Innovations

Reusable Temporary Flood Barriers

Helmet Sticker Recognition

Engage -
ment

Emergency Mgmt.

SCDOT

ZEPHYR PROGRAM

Ohio Department of Transportation

maintainroads.org
2019 TRB Lectern Session on Innovation Programs

- Survey of state innovation programs - a nationwide snapshot
- Case studies from two No Boundaries member states
  - Minnesota
  - Connecticut
- Federal perspective

Find all of the presentations at maintainroads.org/publications-and-presentations/
Innovations captured in the program’s Innovations Database

- Innovations in all areas of non-winter maintenance
- Goal is to establish this as a national clearinghouse
- Open to submissions from all public agencies
Michigan DOT demonstrated Unmanned Aerial Vehicles instrumented with remote sensors for a wide range of cost-effective monitoring applications.

NO BOUNDARIES IS SIGNING OFF FOR THE SUMMER
June 26, 2019

The current phase of the No Boundaries pooled fund has ended. We look forward to seeing you when the new phase of No Boundaries kicks off in early 2020. In the meantime, now is a great time for states to commit to participating in the new phase of No Boundaries. The pooled fund, re-titled No Boundaries Transportation Maintenance Innovations, will better reflect the current scope of activities, is now open for returning and new members alike. Please see the No Boundaries program brochure to learn more about the program and member benefits. If you have questions about joining, please contact Tyler Weldon, Colorado DOT, tyler.weldon@state.co.us, 303-512-3303.

Maintenance Events

2019 Bridge Engineering Institute Conference
Honolulu, HI
July 22 - July 25

2019 APWA Public Works Expo (PWX)
Seattle, WA
September 8 - September 11

2019 AASHTO Northeast Bridge Preservation Partnership Meeting
Burlington, VT
September 9 - September 11
Browse or Search the Database

- 22 entries
- Most recent first
A closer look...

- Filter by...
  - 11 activities
  - 9 types of products and practices
  - (all as noted by person entering data...)

### Narrow Your Search

<table>
<thead>
<tr>
<th>Maintenance Activity</th>
<th>Type of Product/Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pavements</td>
<td>Equipment</td>
</tr>
<tr>
<td>Bridges</td>
<td>Materials</td>
</tr>
<tr>
<td>Tunnels</td>
<td>Training</td>
</tr>
<tr>
<td>Asset Management/Data Collection</td>
<td>Recruitment and Retention</td>
</tr>
<tr>
<td>Culverts and Stormwater Management</td>
<td>Software System</td>
</tr>
<tr>
<td>Traffic Markings and Signage</td>
<td>Automation and Technology</td>
</tr>
<tr>
<td>Guard Rails and Crash Attenuators</td>
<td>Procedure</td>
</tr>
<tr>
<td>Right of way</td>
<td>Policy</td>
</tr>
<tr>
<td>Facilities (Rest Stops, Toll Booths, Park-and-Ride)</td>
<td>Contracted Services/Maintenance Agreements</td>
</tr>
<tr>
<td>Management</td>
<td>Other</td>
</tr>
</tbody>
</table>

**Search**
An individual entry...

- Data submitted by agency
  - Open to all public agencies, including non-members
- Vetted by No Boundaries before going live
Submit an innovation

- Simple form interface
- Options to include Web links and attachments
Strengths

• Fills a need
• Enthusiasm (!)
• Frequently featured

Opportunities

• Improve display
• Improve search
• Scalability
• Dedicate resources to enter data
How to Become a No Boundaries Member

• Phase II ended in June 2019, but Phase III solicitation is underway with minimum commitment already met

• Evolving Focus
  - Phase II: Roadway Maintenance Practices
  - Phase III: Transportation Maintenance Innovations

• Visit pooledfund.org or contact No Boundaries for more details at maintainroads.org
Thank you!

• Questions?

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