



No Boundaries Benefits

AASHTO Sub-Committee on Maintenance

July, 2016

Clark County, NV

Thomas M. Lyden, P.E. - Ohio DOT

Steven J. Cook, P.E. - Michigan DOT

Rebecca D. Allmeroth, P.E. - Missouri DOT



Today's Presentation

- Benefits
- Purpose
- History
- Participating States
- Innovations
 - Missouri DOT
 - Michigan DOT
- How to Participate

Why No Boundaries?

- Share New and Better
 - Equipment
 - Materials
 - Procedures
- Networking and Collaboration with other DOT's
- Clearing House for Process and Products
 - What works
 - What doesn't work
 - What needs more investigation

Benefits (con't)

- Consistent Maintenance Activities among DOT's
- Alignment on Policies, Procedures, and Specifications
 - Performance Based Maintenance
 - Transportation Asset Management
 - Shared Research (statements and outcomes)
- Face-to-Face Meetings
 - Showcase Home State Innovations and Technologies
- Cost Effective
 - Minimize Duplication of Effort

Purpose

- The No Boundaries pooled fund project ([#TPF-5\(330\)](#))
 - A community of practice for roadway maintenance professionals
 - Focuses on identifying innovative technologies and practices used by state DOTs
 - Promote their use by other states through marketing materials, training classes, webinars and other technology transfer efforts
- Compliments SCOM Peer Discussions and Relationships
- Focus on Spring/Summer/Fall Maintenance Needs

History

- Began in 2011
 - Developing Relationships with Fellow DOT member States
 - Build Synergy to address common challenges among DOTs
 - No Sense in Reinventing the Wheel
 - Share “home grown” & “off the shelf practices” that work
- Eight (8) Member States
- Missouri was the lead state from 2011-2015

Where We Are Today

- Ohio DOT became lead state in 2015
- Hired CTC & Associates as Contract Pooled Fund Administrator
- Twelve (12) member states
- Expanded Focus Area to include:
 - Asset Management
 - Maintenance Management

Current Members



Equipment & Materials

- Advanced Control System for herbicide application
- Concrete Deck Repair Trailer
- Epoxy Injection of Bridge Decks
- LED Panic Lights
- Truck Mounted Lifting Device

Asset Management

- Mobile Terrestrial Laser Scanning
- Unmanned Aerial Vehicles for Asset Monitoring
- KYDOT Lessons Learned in Data Collection, Capture and Usage

Maintenance Management

- CalTrans Maintenance Leadership Academy
- Beautifying Georgia - One Tire at a Time

Recent Innovations Implemented

- Recent Ohio Innovation Implemented in Missouri:
 - Telescoping Tree Trimmer Program
 - Removing the canopy from the roadsides improves visibility and provides daylight to melt snow in the winter.
 - Video of operation



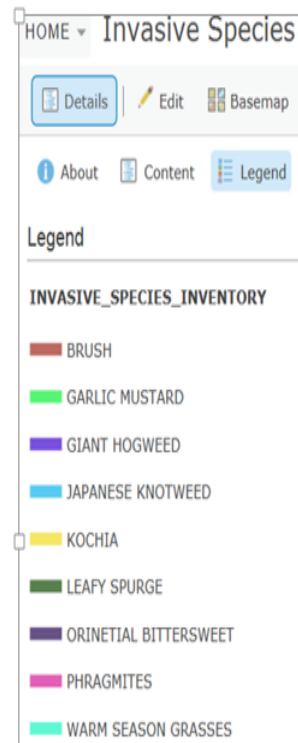
Recent Innovations Implemented

- Recent Missouri Innovation Implemented in Ohio:
 - Audible TMA with Panic Lights
 - The purpose of the Audible TMA is to alert drivers in a workzone and prevent the potential of a vehicle crash.
 - [Link to Audible TMA with Panic Lights](#)



Invasive Species Collector App

- Uses a line for mapping
- Depth of stand is entered in field
- Crews know where to go to target invasives and what products they will need to mix for treatment
- Over time eradication or spread can be measured
- Data integrates with AVL Spray truck pilot



Performance Base Maintenance (PBM) in Roadside Contracts

- Payments based on an outcome based evaluation
- Provides a consistent level of service and rating system
- Potential for “weeding out” contractors providing poor quality work

Roadside Park Building

- 50 year life, \$20K single & \$35K double
- Set and ready to use in 6 hours
- Minimal maintenance requirements
- Aesthetically pleasing



How to Participate

- Transportation Pooled Fund - TPF-5 (330)
- State Planning & Research (SPR) Funds
- Annual \$10,000 Contribution
 - Travel to TAC meetings
 - Communication and Training Materials
 - Quarterly Conference Calls and Information Sharing
- Kim.Linsenmayer@ctcandassociates.com

