



No Boundaries Pooled Fund TAC Meeting

March 31, 2016 | 1:00 to 2:30 p.m. Central

Agenda

GoToMeeting Link:

<https://global.gotomeeting.com/join/621719861>

Telephone: (408) 650-3123, Access Code: 621-719-861

Agenda Topics

1:00 to 1:10	Membership updates <ul style="list-style-type: none">• Welcome New York!• CTC and TAC outreach efforts – Emails, calls, WASHTO• Private industry interest (John Stains)
1:10 to 1:20	Website content and outreach updates <ul style="list-style-type: none">• New resources<ul style="list-style-type: none">○ Asset management resources○ TRB papers on maintenance○ Missouri DOT panic lights and sound videos○ Members only section• No Boundaries newsletter• Google Groups maintenance forum
1:20 to 1:50	Asset management survey <ul style="list-style-type: none">• Discuss draft survey topics and questions• Add questions on data collection?• Distribution list – SCOM?• Plans for compiling and using results
1:50 to 2:05	Soliciting innovation submissions <ul style="list-style-type: none">• Review draft website form for submitting innovations• Discuss database display approach• For future discussion: Process for reviewing submitted innovations – which ones should be promoted for widespread implementation
2:05 to 2:30	Next face-to-face meeting/technology transfer opportunity <ul style="list-style-type: none">• Consider a members-only meeting (with invited experts/leaders) or a conference sponsored by No Boundaries that is open to others• Potential topics (see following pages)

Potential 2016 TAC Meeting/Conference Topics

Using Drones for Maintenance

Address available technology, applications, benefits, limitations, legal issues, etc. Recent studies and field activities by Michigan DOT, Minnesota DOT and others could be featured/presented. Could include participation by FTA.

Refer to the March 27th AASHTO news release:

<http://www.aashtojournal.org/Pages/NewsReleaseDetail.aspx?NewsReleaseID=1466>

According to a March 2016 survey by the American Association of State Highway and Transportation Officials, 33 state departments of transportation have or are exploring, researching, testing or using unmanned aerial vehicles, commonly referred to as drones, to inspect bridges and assist with clearing vehicle crashes, among other innovative applications.

Data Collection Methods

Present and discuss the use of mobile devices such as tablets and smartphones to collect asset data in the field. Share technology employed, successes, failures, and lessons learned. NCHRP Synthesis 470 (MQA Field Inspection Practices, 2015) provides good information about which states are pursuing an automated approach. Below are examples shared briefly by members at the December meeting.

Washington

- **Maintenance management system.** Using iPads with highway asset tracking system developed in house. Rolled out 800 iPads with GPS to maintenance staff for inspections, taking pictures, doing repairs. Have a mobile maintenance technology manager.
- **Data collection emphasis.** Helps with developing budget requests and predicting impacts, measuring effectiveness of operations and success or failure of changes. Can be used to defend tort claims.

Ohio

- **Using and tracking success factors** (driven by ODOT) for the performance of all county work. Tracks people, system conditions, safety, capital program for performance using colored indicators. Look for trends and contract out if it would be cheaper.

Illinois

- New **web-based tracking system** for iPads and iPhones.

December Meeting Successes/Initiatives Shared

Ohio

- New TRIP Program provides a \$2,500 bonus **incentive for a towing company** to arrive within 45 minutes and clear within 90 minutes.
- **Contracting out condition ratings.** (They drive the system and note where work is needed).
- ODOT **website for traffic** and upcoming personalized app for route to work.
- **Paint the Plow** program.

North Dakota

- **\$5M innovation program** recently initiated by executive management. Industry, NDDOT staff, citizens, anyone can submit ideas to a committee that meets three times a year. They select and present to management.
- **Training Academy** has been running for ten years to transfer knowledge.
- **Pavement preservation technique.** One of our contractors put a rock saw on an excavator to remove depressed transverse cracks in asphalt pavement and then filled them with good asphalt.

Florida

- **One-stop permitting.** Users can manage personal and organizational profiles, apply for new permits, and attach documents and plans in the system. Approved permit packages issued online with real-time tracking.
- **Customer comment system.** Allows customers to submit comments electronically about rest areas. System generated email sent to DOT for any rating less than 3 (on scale of 1 to 5).
- **Self service motor pool system.** Reservations made online, self-service key pickup and return. Resulted in 19% increase in utilization measure from April 2014 to April 2015.

South Carolina

- **Improvements in sign shop productivity.** We did some production studies, consolidated shops, and reduced the number of people to those with higher productivity. Saved \$500K. Pushing the approaches out to the field.
- **Using performance metrics to predict costs.**
- **QMR/QMT inspections.** 55-item checklist to review safety, environmental, etc.
- **Customer survey.**
- **On-call contracts** (responsive, predetermined costs, better LOS).
- **EORS (Emergency Operations Response System)** and procedure. Extreme weather situation with having crews help each other in other regions. Checklist for emergency management. Good plan in place now.

Washington

- **Web-based AVL/GPS.** We designed it ourselves to see trucks on a map and where they've been and the level of service in real time.
- **Pre- and post-winter roadside soil sampling.**
- **Buffer trucks for spraying operations.**

Illinois

- **Dedicated funding** for weed spraying, EAB ash tree removals, rest area maintenance and pavement preservation (minor repairs).
- Working to include **green friendly best management practices.**
- **Chainsaw and chipper safety training.**