

NCHRP 20-68 “US Domestic Scan Program”

Domestic Scan 23-05

“Successful Approaches to Validating and Communicating the Long-term Effects of Aging Government Fleet Assets”

Findings, Conclusions and Recommendations



ARORA and ASSOCIATES, P.C.
Consulting Engineers



Panel Guidance to Domestic Scan Team for Domestic Scan 23-05

“Successful Approaches to Validating and Communicating the Long-term Effects of Aging Government Fleet Assets”

- For the most part, we all have older fleets past their expected lifecycle.
- We don't have the budget to keep these pieces of equipment on their useful lifecycle.
- These leads to increase downtime and higher maintenance cost
- How do we convey this to those in our organization that set our budgets.



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“Successful Approaches to Validating and Communicating the Long-term Effects of Aging Government Fleet Assets”

A scan tour is composed of two groups:

- Organizations that think they have done well on this topic and want to tell their story.
- Subject Matter Experts (SMEs) that listen to, question and evaluate their stories.

Scan Team

Doug Burke ODOT – Co-chair
Transportation Engineer
Ohio DOT

Jeff Pifer
Equipment Division Chief
West Virginia DOT

Tim Cunningham – Co-chair
Equipment Engineer
Kansas DOT

Greg Bright
Statewide Fleet Director
Indiana DOT

Darin Weaver
TIM Program Coordinator
Oregon DOT

Colby Page
Michigan DOT

Howard Ray
Fleet / Equipment Asset Manager
Colorado DOT

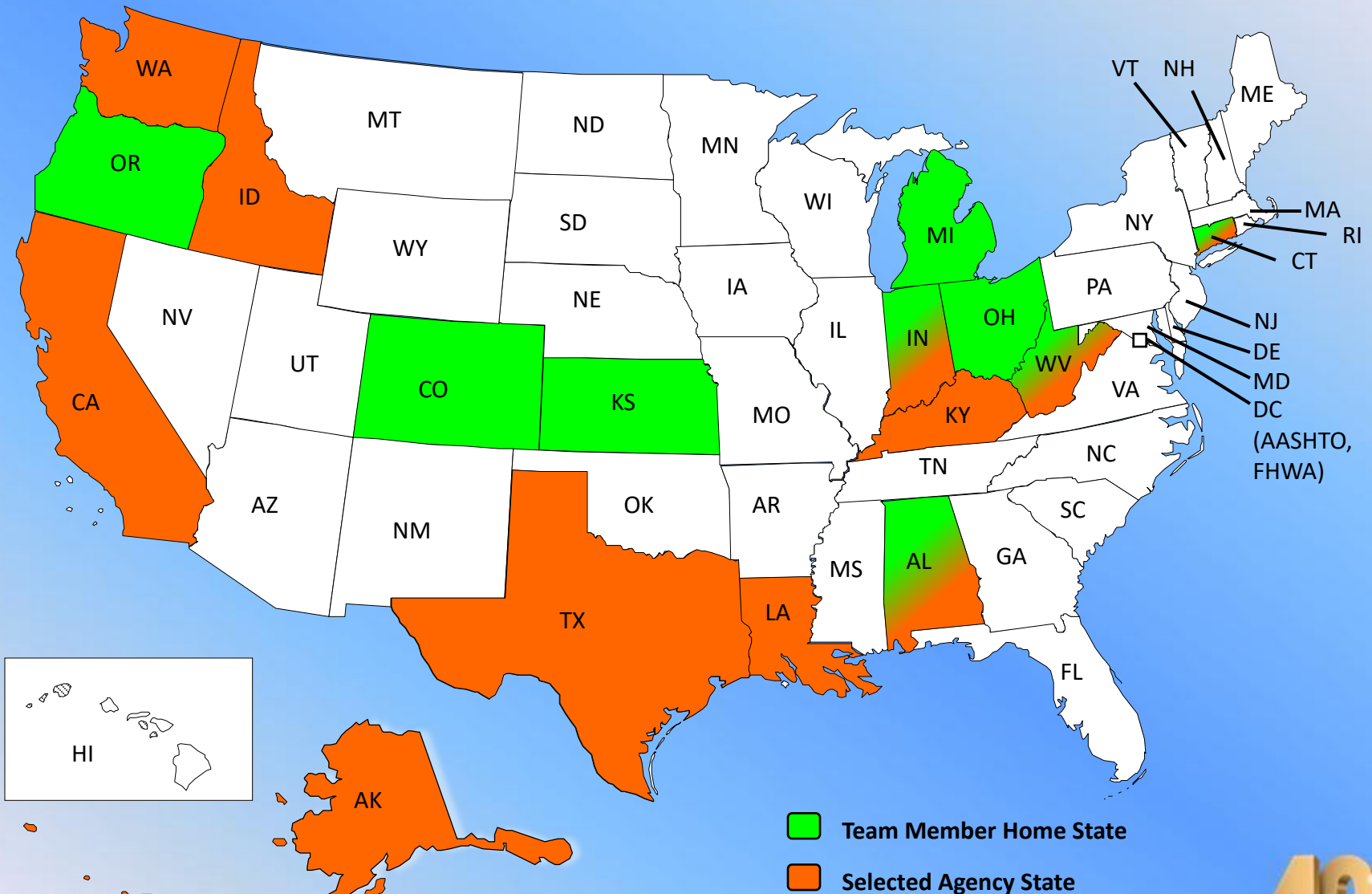
James Chupas
Transportation Maintenance Director
Connecticut DOT

Stan Carlton
Equipment Bureau Chief
Alabama DOT

Tim Lawler
Fleet Management Division Chief
Maryland SHA

Lisa M. Kunzman – Subject Matter Expert

Scan 23-05 Map of Participants



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Summary of Initial Findings

- **Relationships**

- Professional relationships with decision makers and stakeholders led to effective communication, which resulted in an understanding of fleet needs.

- **Credibility**

- Data, replacements plans, external reviews and recognition, best practices, a respected and experienced fleet manager, delivering results, and being a good steward of resources resulted in fleet function credibility.

- **Data**

- Data is key to identifying aging fleet assets and quantifying fleet needs (replacement, expansion, or contraction).
 - Equipment management systems, telematic information, data quality control, and data analysts are fundamental to a data driven approach.

- **Communication**

- Open and effective communication with upper management and decision makers is vital.
- Visual representation of fleet data (that is readily available) benefits the fleet program, decision makers, and stakeholders.

Recommendations

- **Relationships**

- Develop internal and external relationships to facilitate the sharing of fleet message/story to achieve fleets goals.
- Devote time and plan for relationship development and outreach.

- **Credibility**

- Use data to determine replacement criteria, right size fleet, and manage overall fleet costs.
- Share the basis of the replacement criteria with decision makers and other interested parties.
- Develop multi-year replacement plans and have a plan (procurement and deployment) to deliver results.

- **Data**

- Acquire and use a fleet management system capable of capturing usable and understandable data and reports for fleet management decisions.
- Create and report fleet health metrics that are accessible and provide actionable insights.

Recommendations

- **Communication**

- Establish regular scheduled communications with decision makers, and other interested parties with the goal of communicating fleet health, needs, and trends.
- Engage in networking to augment communication opportunities.
- Develop effective visualization tools that communicate fleet health.

- **Stewardship**

- States should consider various alternative equipment disposal processes such as buy-back or trade-in.
- States should ensure net revenue received from all forms of disposal (auction, government sales, etc.) be returned to the fleet program.



**Further information on this scan and the
NCHRP 20-68 “U.S. Domestic Scan Program”
is available at:**

<http://144.171.11.40/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=1570>

Or

<http://www.domesticscan.org/>



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Questions?



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