

# WASHTO EMERGING LEADERS

Outside the Data Box

AK – Ana Enge

CO – Nick Farber

NV – Kevin Verre

OK – Matthew Swift

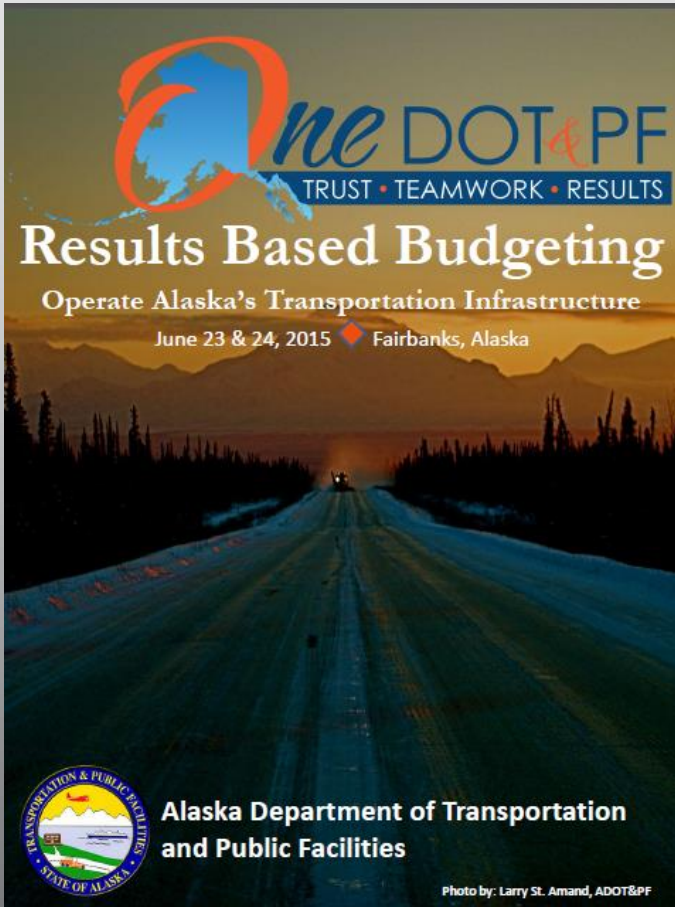
UT – Kendall Draney



# DATA MANAGEMENT

- Data Governance
- Tools for Decision Making
- Benefits and Lessons Learned





# ADOT&PF's Road to Data Governance

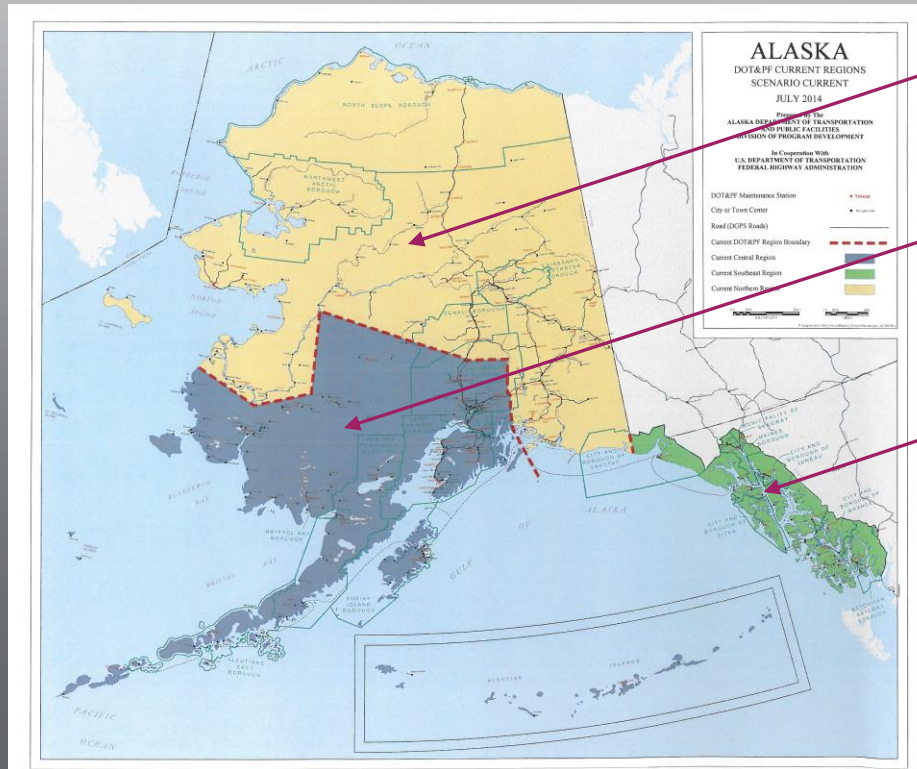


Core/Direct Service	<u>Timeliness</u>	<u>Accuracy</u>	<u>Cost</u>
<b>Expand Infrastructure</b>	1) Percent of Projects Behind Plan	1) Total Dollars obligated vs. Total Dollars Planned (STIP)	1) Total Cost of Construction Dollars Delivered/Total Cost
<b>C2: Design/Engineer Infrastructure</b>	NA	1) Percent of Project CO Due to Design/Engineering Issues 2) Percent of Engineer's Estimate to Award Comparison	1) Cost of Design/Engineering COS vs. Total Planned Budget
C2-D1: Obtain ROW	1) Average Number of Days Per Acquisition 2) Percent ROW Parcels Obtained Within Schedule	1) Final Parcel Purchase Price vs. Initial Appraisal	Total Phase 2 ROW Cost vs. Total Project Cost
C2-D2: Design The Project (PS&E)	1) Changes in Duration Original Schedule vs. Obligation Schedule	1) Percent Change Original Design Cost Estimate to Bid Results 2) Number of Scope Changes Per Project	1) Total Phase 2 Cost/Total Project Cost
C2-D3: Utilities	1) Time from Original Schedule vs. Utilities Certification Date	1) Number of Unplanned Relocates/Total Number of Relocates	1) Relocation Costs per Project/Total Project Cost
C2-D4: Prepare Environmental Permitting/ Documents	1) Time from Original Schedule vs. Environment Document Completion Date	1) Number of Final Documents Returned for Rework/Total Documents Submitted	1) Environment Costs Per Project/Total Project Cost

# Developing Dashboards



Short Project Name	Start Date	Advertised Date	Intent to Award Date	Award & Notice
Airport Marking/Striping-	1/14/2016	3/9/2017	4/17/2017	4/28/2017
Cold Bay Airport Improvem	7/18/2011	5/25/2016	7/8/2016	8/22/2016
Glacier Hwy Reconstructio	7/20/2008	11/23/2016	12/29/2014	2/13/2017
GST: Rink Creek Bridge Re	1/18/2012	11/14/2016	12/29/2016	1/24/2017
Haines FT Hawser Rail & W	(blank)	2/14/2017	3/2/2017	3/2/2017



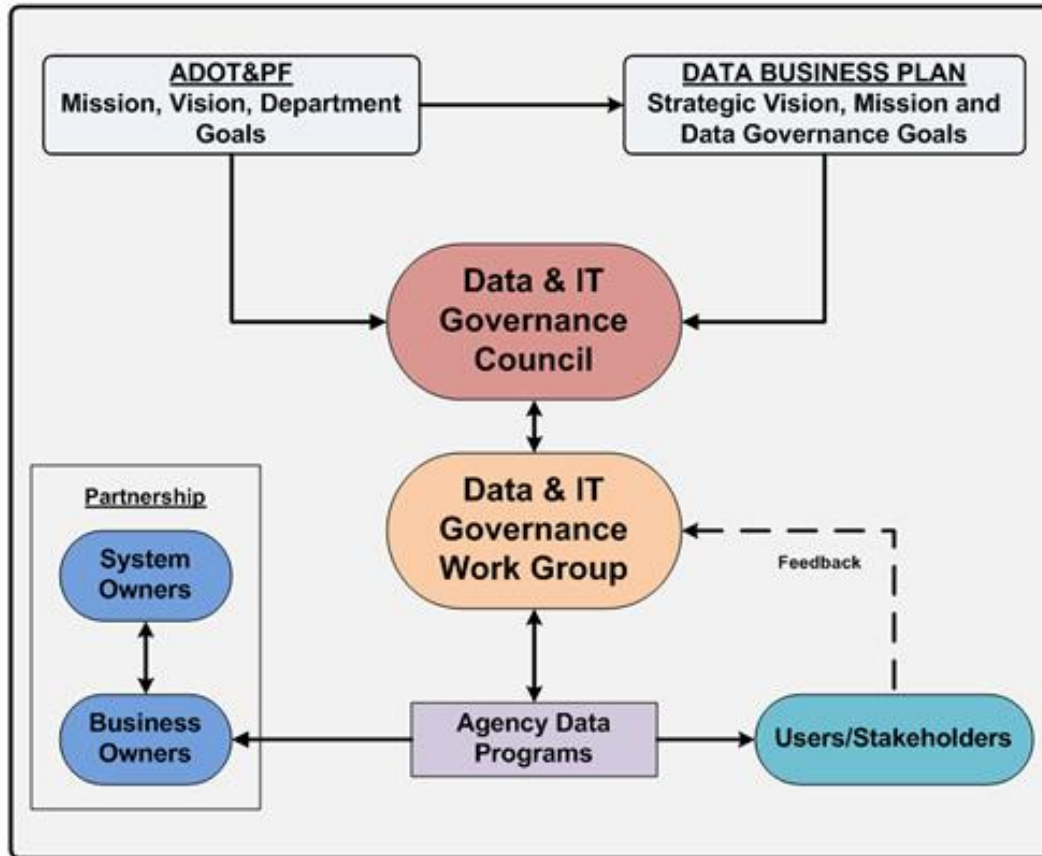
Recommended to STIP  
MRS

Initial Obligation  
Excel

Award Date  
Bid Tab



## AKDOT&PF Data Governance Model



# Data Governance





# ODOT MAP & Data Portal



# 1. Zero Crashes, Injuries & Fatalities Dashboard

# 2. Optimize Mobility Dashboard

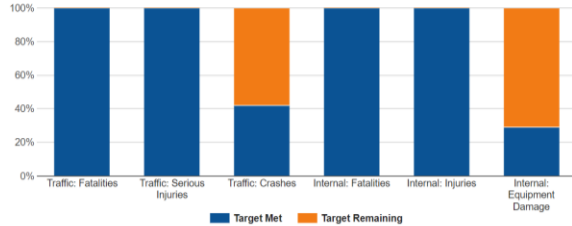
# 3. Preserve Infrastructure Dashboard

A composite metric for zero fatalities is based on key performance measures. The individual criteria are weighted as follows:

- Traffic Fatalities (29%)
- Traffic Serious Injuries (20%)
- Traffic Crashes (8%)
- Internal Fatalities (28%)
- Internal Injuries (10%)
- Internal Equipment Damage (5%)

# 91.9%

[Click here to read more about composite indices](#)

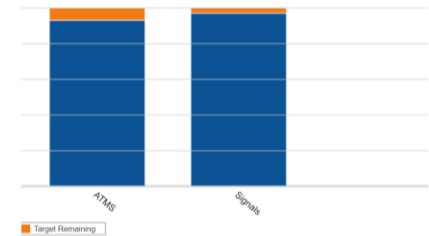


A composite metric for infrastructure is based on the following key performance measures:

- Bridges (39%)
- Pavement (35%)
- Signals (17%)
- Advanced Traffic Management System (ATMS) (9%)

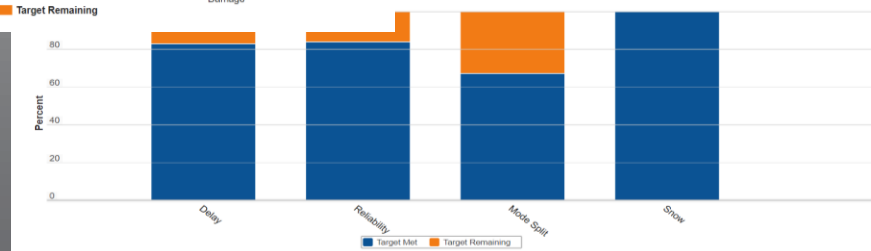
# 99.4%

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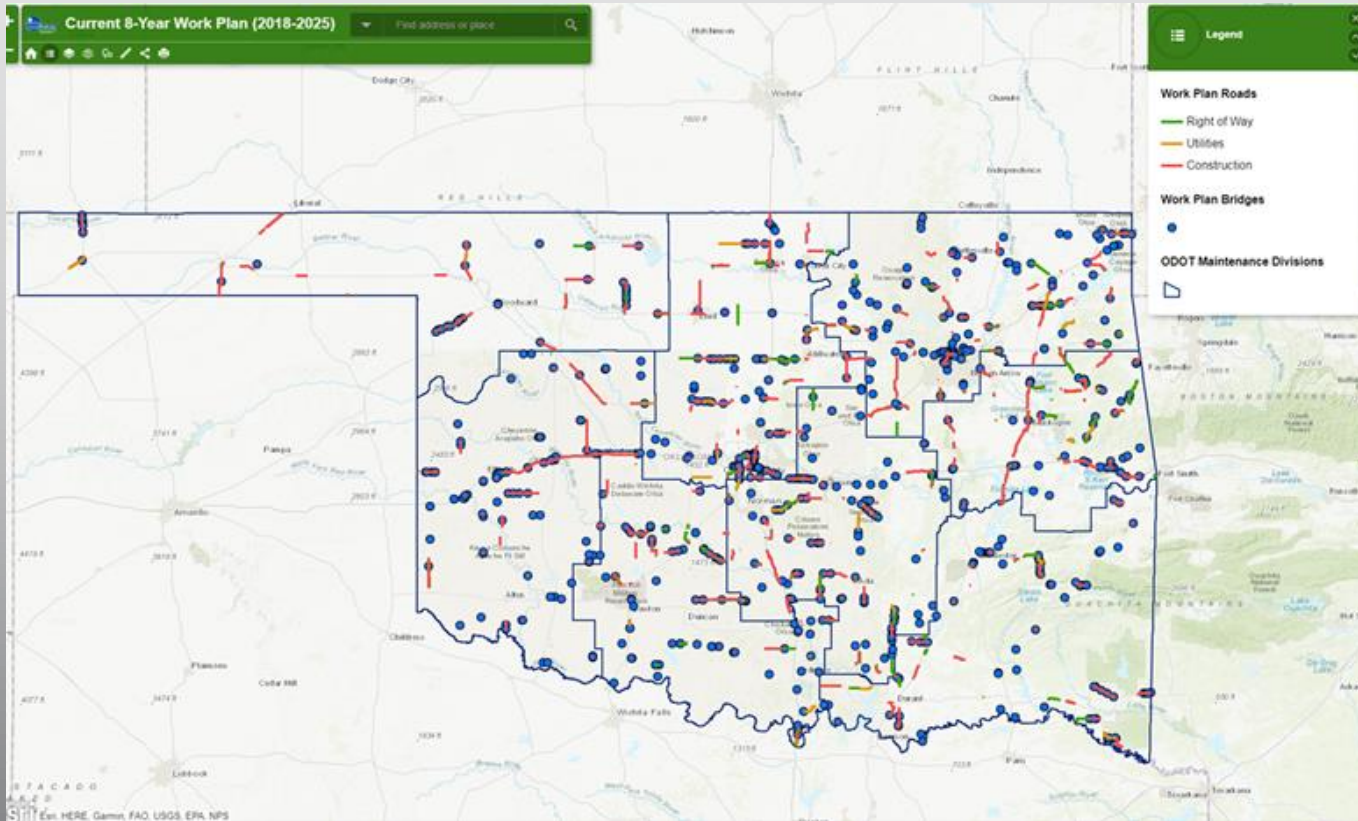
# 85.3%

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# Strategic Goal Dashboards





# Data Management: Benefits and Lessons Learned

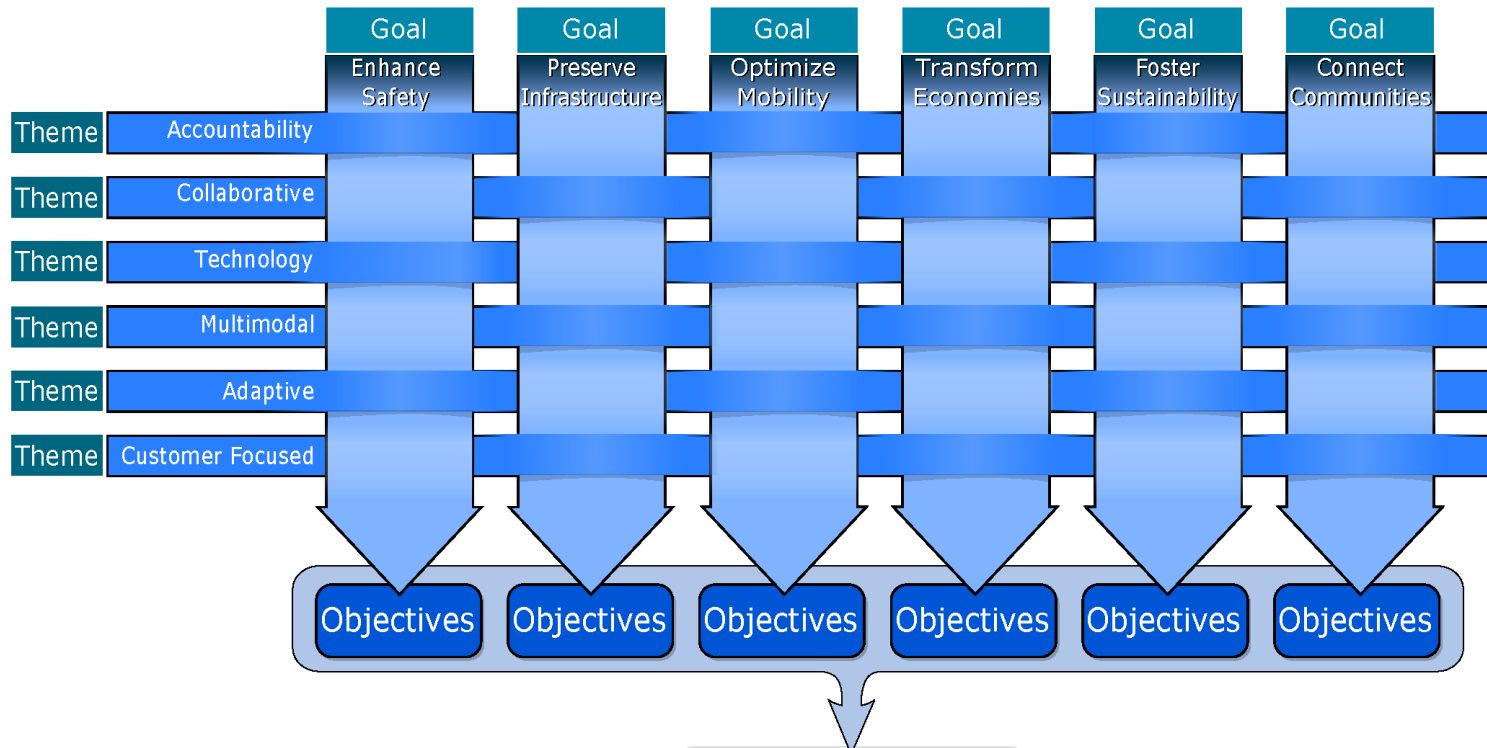


# PRIORITIZATION

- Establishing Framework
- Define Prioritization Criteria
- Benefits/Lessons Learned



## One Nevada Transportation Plan Vision



# Data Driven Decision



- Project selection criteria – prior to selection tool.
- Technology not quick fix for work behind

## **Prioritization: Benefits and Lessons Learned**



# Questions?

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LEADERS**

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