

# ITD and Roadway Data

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AN EXPLORATION IN TRAVEL, DATA, AND GOVERNANCE



# Overview

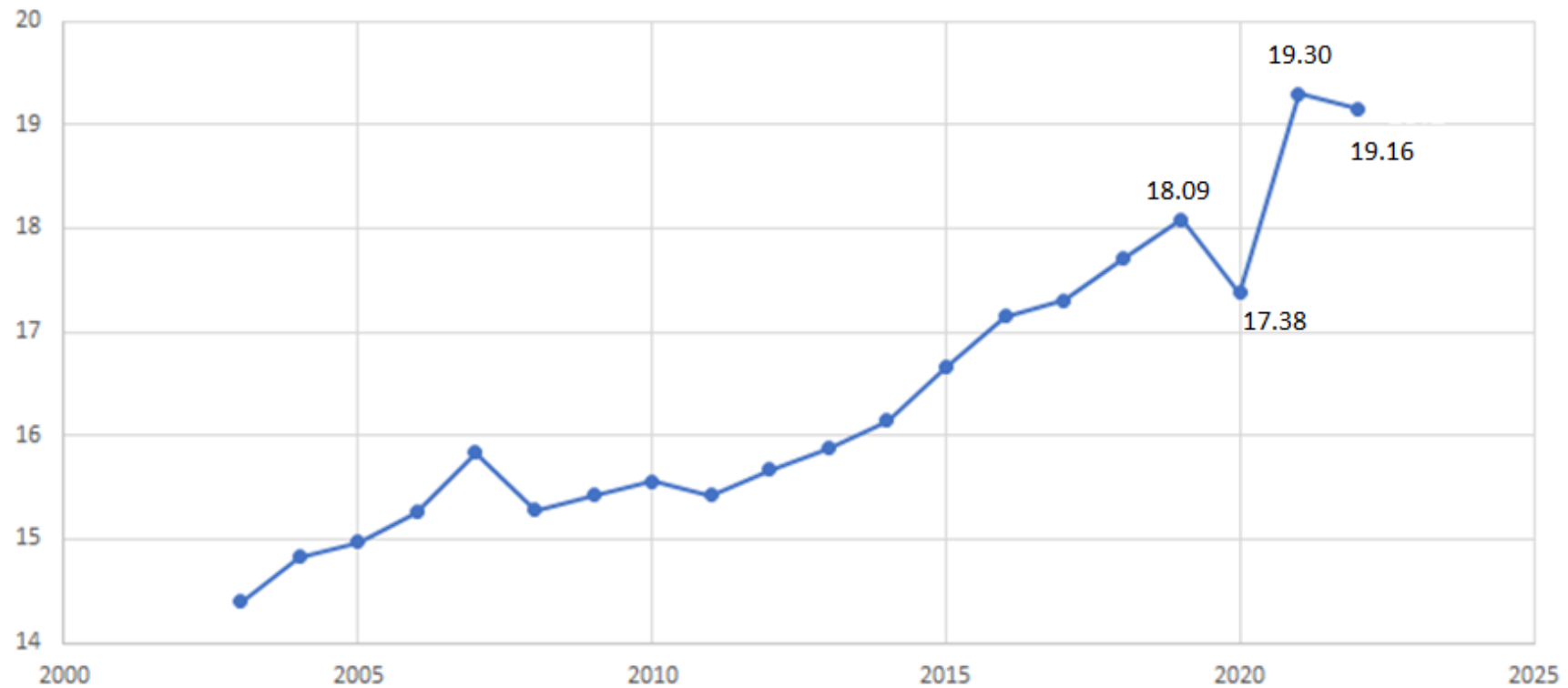
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- ❖ Traffic Monitoring
- ❖ Highway Safety Improvement Program – MIRE
- ❖ Data Sources and Governance

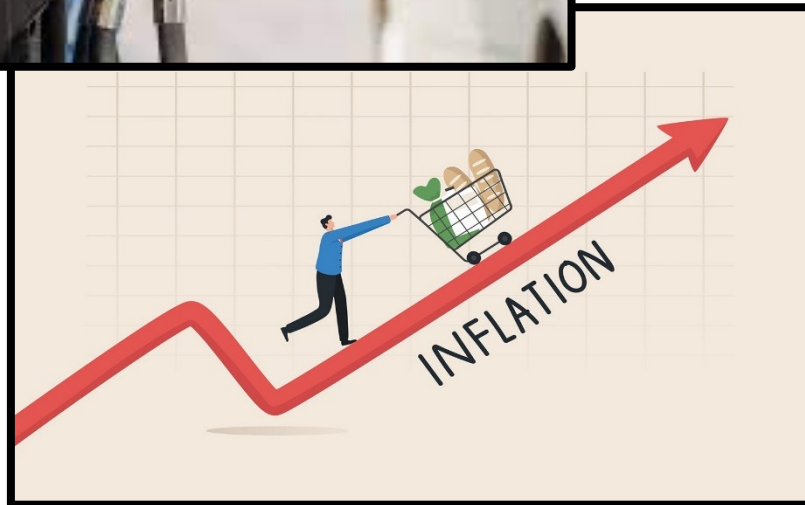


# Traffic Monitoring

Idaho 2022 Annual Vehicle Miles Traveled (in Billions)



# Traffic Monitoring



# Traffic Monitoring – Post Pandemic Trends

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2020 (-4% Growth Overall)

Traffic Drops Statewide due to Shutdown

Urban Stay Low

Rural Sets Summer Records

2021 (11% Growth Overall)

Record AVMT

Urban Back to 2019 Levels

Rural Sets Summer Records

2022 (-1% Growth Overall)

Urban Traffic Grows

Rural Traffic Drops



# Traffic Monitoring

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## Federal Aid Growth by Urban County: 2013 vs 2022

County	% Growth
Ada	19.8
Bannock	14.7
Bonneville	30.8
Canyon	40.3
Kootenai	22.9
Nez Perce	0.6
Twin Falls	17.6

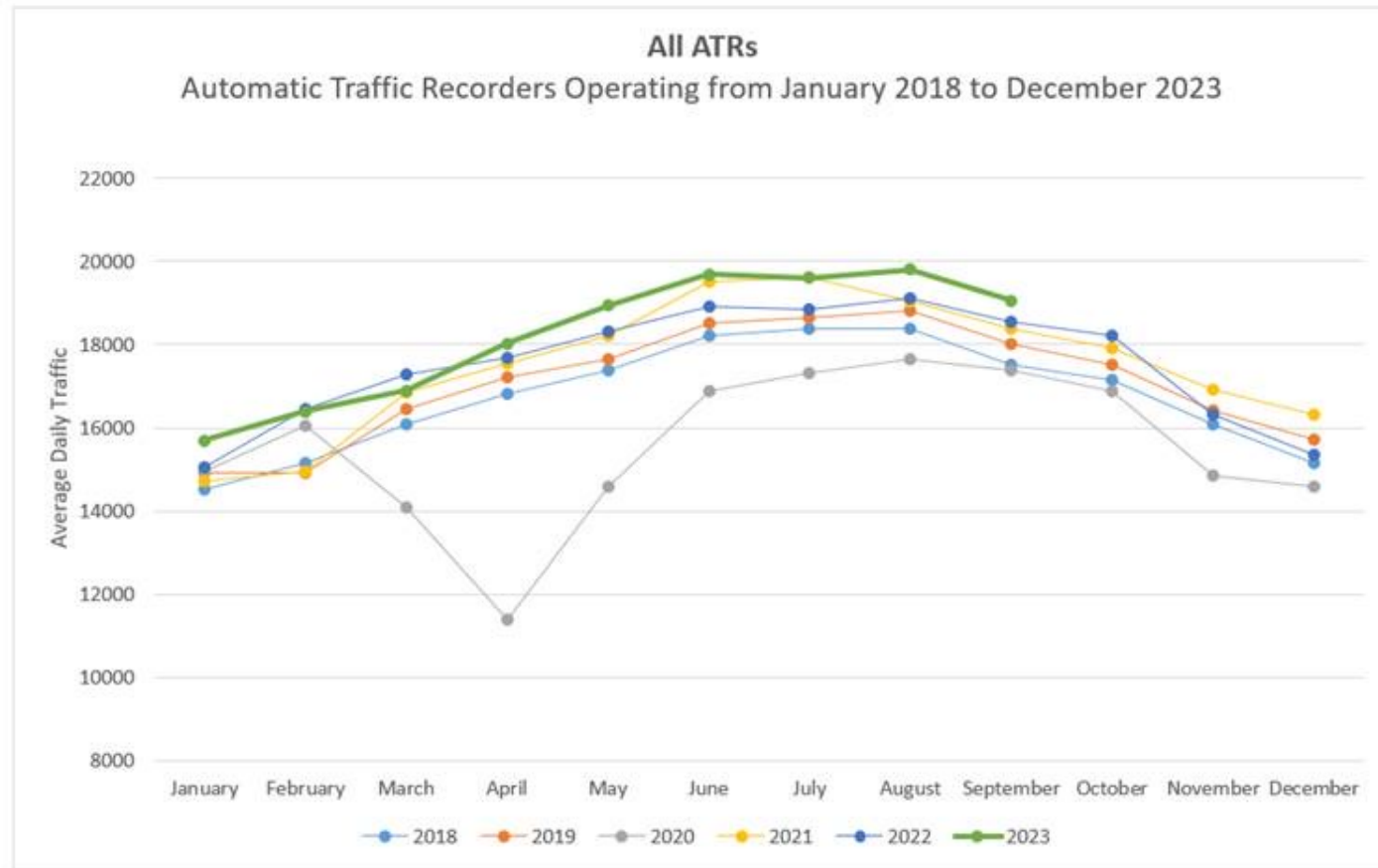
All Urban Counties

23.3

\*Excludes Ramps



# Traffic Monitoring – Five Years of Trends



# Highway Safety Improvement Program and the Model Inventory of Roadway Elements

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What is the Highway Safety Improvement Program?

What is the Model Inventory of Roadway Elements?





# HSIP and MIRE – MAP-21 and FAST Acts

Roadway Segment	Intersection	Interchange/Ramp
Segment Identifier (12)	Unique Junction Identifier (120)	Unique Interchange Identifier (178)
Route Number (8)	Location Identifier for Road 1 Crossing Point (122)	Location Identifier for Roadway at Beginning Ramp Terminal (197)
Route/street Name (9)	Location Identifier for Road 2 Crossing Point (123)	Location Identifier for Roadway at Ending Ramp Terminal (201)
Federal Aid/ Route Type (21)	Intersection/Junction Geometry (126)	Ramp Length (187)
Rural/Urban Designation (20)	Intersection/Junction Traffic Control (131)	Roadway Type at Beginning Ramp Terminal (195)
Surface Type (23)	AADT (79) [for Each Intersecting Road]	Roadway Type at Ending Ramp Terminal (199)
Begin Point Segment Descriptor (10)*	AADT Year (80) [for Each Intersecting Road]	Interchange Type (182)
End Point Segment Descriptor (11)*	Unique Approach Identifier (139)	Ramp AADT (191)
Segment Length (13)		Year of Ramp AADT (192)
Direction of Inventory (18)		Functional Class (19)
Functional Class (19)		Type of Governmental Ownership (4)
Median Type (54)		
Access Control (22)		
One/Two-Way Operations (91)		
Number of Through Lanes (31)		
AADT (79)		
AADT Year (80)		

Type of Governmental Ownership (4)		
Unique Junction Identifier (120)		
Location Identifier for Road 1 Crossing Point (122)		
Location Identifier for Road 2 Crossing Point (123)		
Intersection/Junction Geometry (126)		
Intersection/Junction Traffic Control (131)		
AADT (79) [for Each Intersecting Road]		
AADT Year (80) [for Each Intersecting Road]		
Unique Approach Identifier (139)		

Note: AADT = Annual average daily traffic

**Table 2. MIRE Fundamental Data Elements (MIRE 1.0 Element Number) for Local Paved Roads Based on Functional Classification.**

Roadway Segment
Segment Identifier (12)
Functional Class (19)
Surface Type (23)
Type of Governmental Ownership (4)
Number of Through Lanes (31)
Annual Average Daily Traffic (79)
Begin Point Segment Descriptor (10)
End Point Segment Descriptor (11)
Rural/Urban Designation (20)



# Highway Safety Improvement Program and the Model Inventory of Roadway Elements

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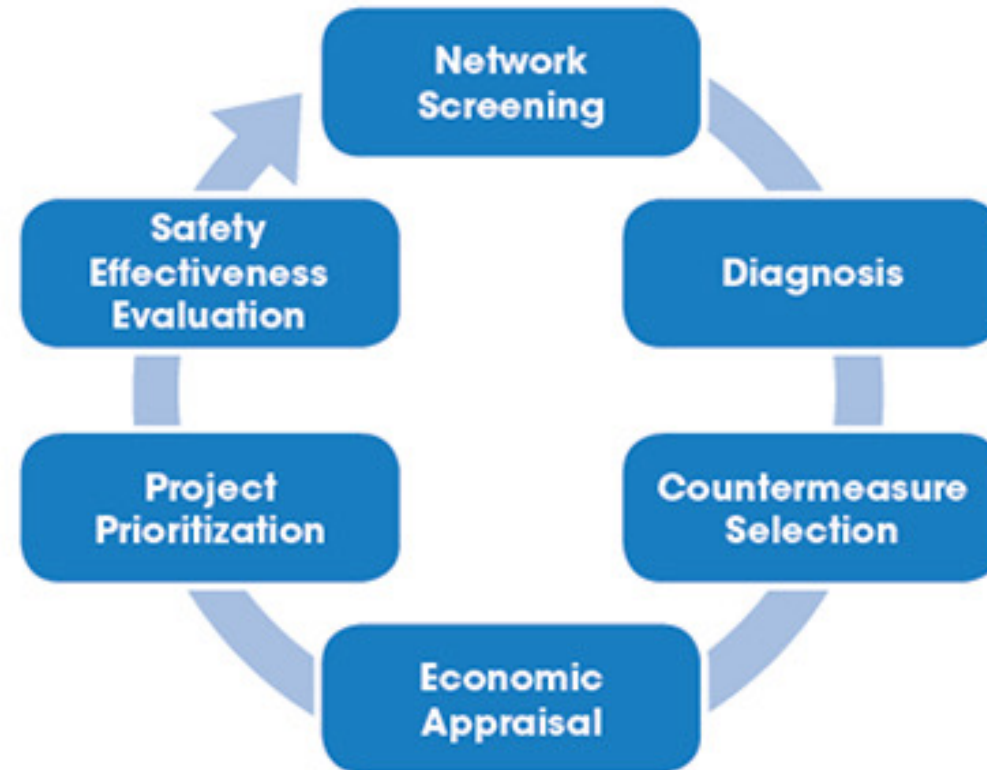


Figure 1. HSM 6-Step Roadway Safety Management Process

Source: [https://www.highwaysafetymanual.org/Pages/support\\_answers.aspx](https://www.highwaysafetymanual.org/Pages/support_answers.aspx)



# ITD Data Sources and Governance

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What Data Do We Have?

How Do We Manage It?



# ITD Data Sources – External

The screenshot displays the Idaho Transportation Department's "Road Data" website. The page features a navigation menu with links for HOME, DMV, ROAD REPORT, BUSINESS, PROJECTS, and BOARD. The main content area is titled "Road Data" and includes tabs for Traffic Counts, Maps - GIS, CADD, Pavement Management, and Transportation Asset Management Plan. The "Traffic Counts" tab is active, showing information about Automatic Traffic Recorders (ATR) and Weigh-In-Motion (WIM) systems. A map of Idaho is shown with a red line indicating the location of a specific road segment. A popup window displays the following data for route 04567A0H000:

Annual Average Daily Traffic 2022:	
Route ID	04567A0H000
From Measure	7.93038029
To Measure	9.63170034
AADT	10,500
Passenger AADT	10,500
Commercial AADT	0
Description From	AMITY AVE ROUNDABOUT
Description To	AIRPORT RD
Year	2022
DHV	1,050
MADT1	8,706
Zoom to	...

These reports are maintained by the Idaho Transportation Department Roadway Data Section.





# ITD Data Sources – Exernal

itd.aashtowaresafety.net/itd-safety-dashboards#/

TrafficBookmarks PDC 2022 FHWA Information... GIS Strategic Plan... Idaho GIS Strategic... Live Training - Zoo... How Did We Put O... sponsor showcase Enabling breakout r... Managing breakout... Image and video sp... esri Migrate to ArcGIS P... All Bookmarks

Crash Summary-

Crash Date 01/01/2018 - 12/31/2022 Add Filter

Summary

Numetric receives nightly data updates from ITD, however, data more recent then March 31, 2023 may be incomplete, and is still subject to modification.

Filters

Date & Time: All Time

Measure: Records Row Count


District Select...

County Select...

City Select...

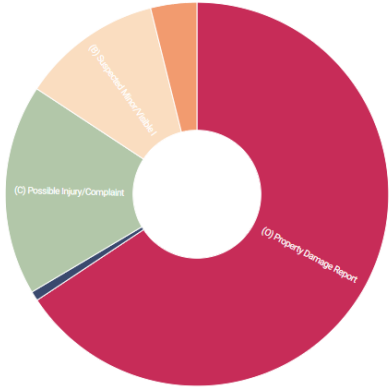
Crash Severity Select...

Highway District Select...



At the Idaho Transportation Department (ITD) our Strategic Plan is "Your Safety, Your Mobility, Your Economic Opportunity." ITD is committed to providing the safest transportation system possible. Each year progress is made to eliminate death and serious injuries (SI) on Idaho's highways. Traffic safety professionals have addressed behaviors, infrastructure improvements and enforcement

% of Crashes by Severity



This chart shows the % of total Crashes by Severity.

Total Crash Count: 129,914

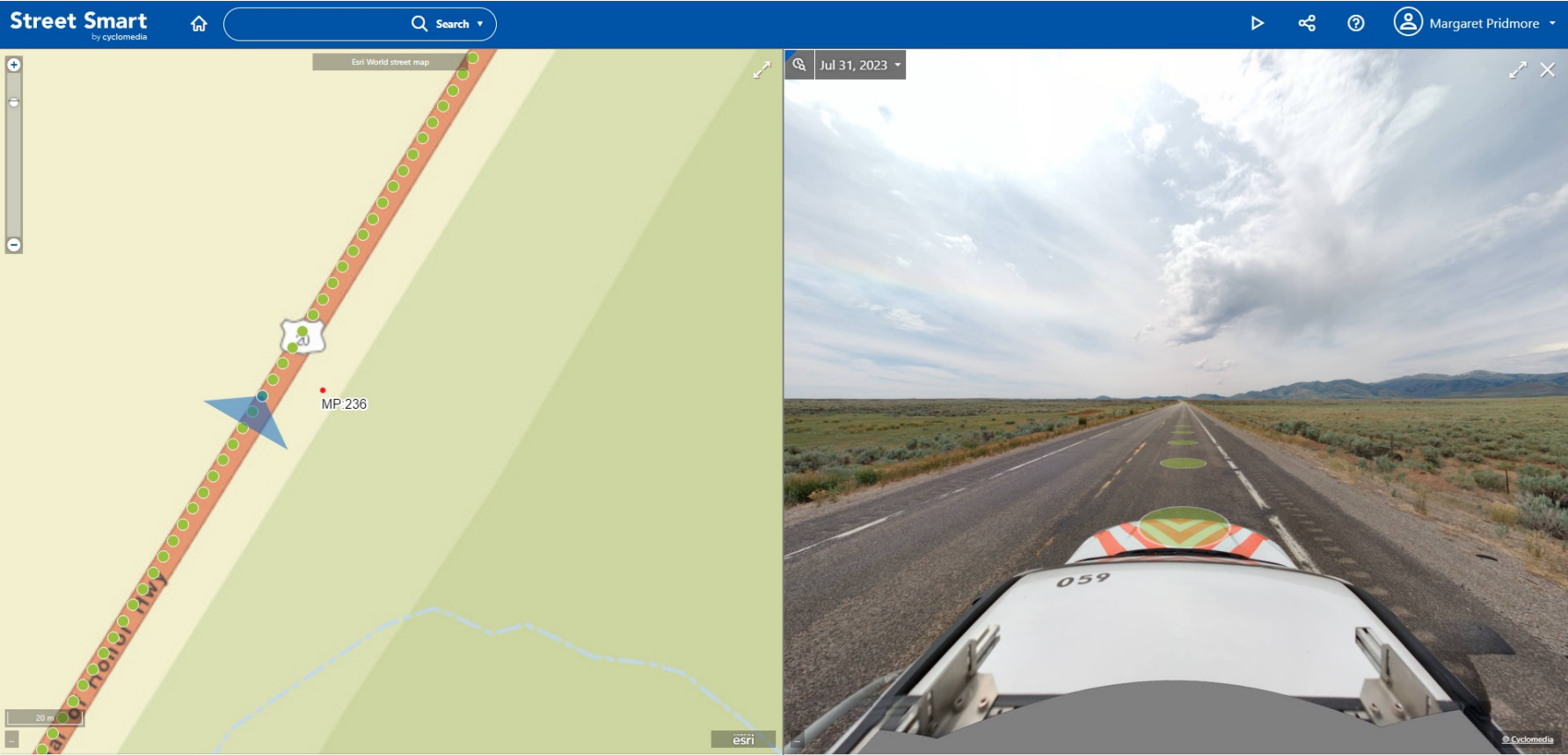
Number of Fatal Crashes: 1,045

Number of Fatalities: 1,161

By default, this data includes the following years: 2018-2022



# ITD Data Sources – Internal



# ITD Data Sources – What's Next?

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## GOVERNANCE

Where are we?

- \* Recognizing Our Limits
- \* Conversations Galore
- \* Identifying Gaps and Needs

Where are we going?

- \* Developing Practical Governance
- \* Investing in Tools



# ITD Data Sources – Practical Governance

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- \* Recognizing the Impact of Governance

- \* Fear

- \* Not Useful

- \* “Just One More Rule”

- \* Identifying the Risk

- \* Poor Decisions

- \* Conflicting Messaging

- \* Credibility





# ITD Data Sources – Practical Governance

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- \* Understand the Purpose to Define the Line
  - \* What Must Be Governed
  - \* What Should Be Governed
  - \* What Should Not Be Governed



# ITD Data Sources – Practical Governance

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# ITD Data Sources – All Roads Lead to Data

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## Research Projects

- \* Data Evaluation – Accuracy, ROI, and Use Case Development
- \* Local Road AADT Estimation
- \* GIS Pooled Fund Study for Safety Data

## Tools

- \* Evaluating Tools for Data Management







**ITD 3rd Annual Data Summit**  
**February 6-7, 2024**





# Questions

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