

INRIX Services Overview

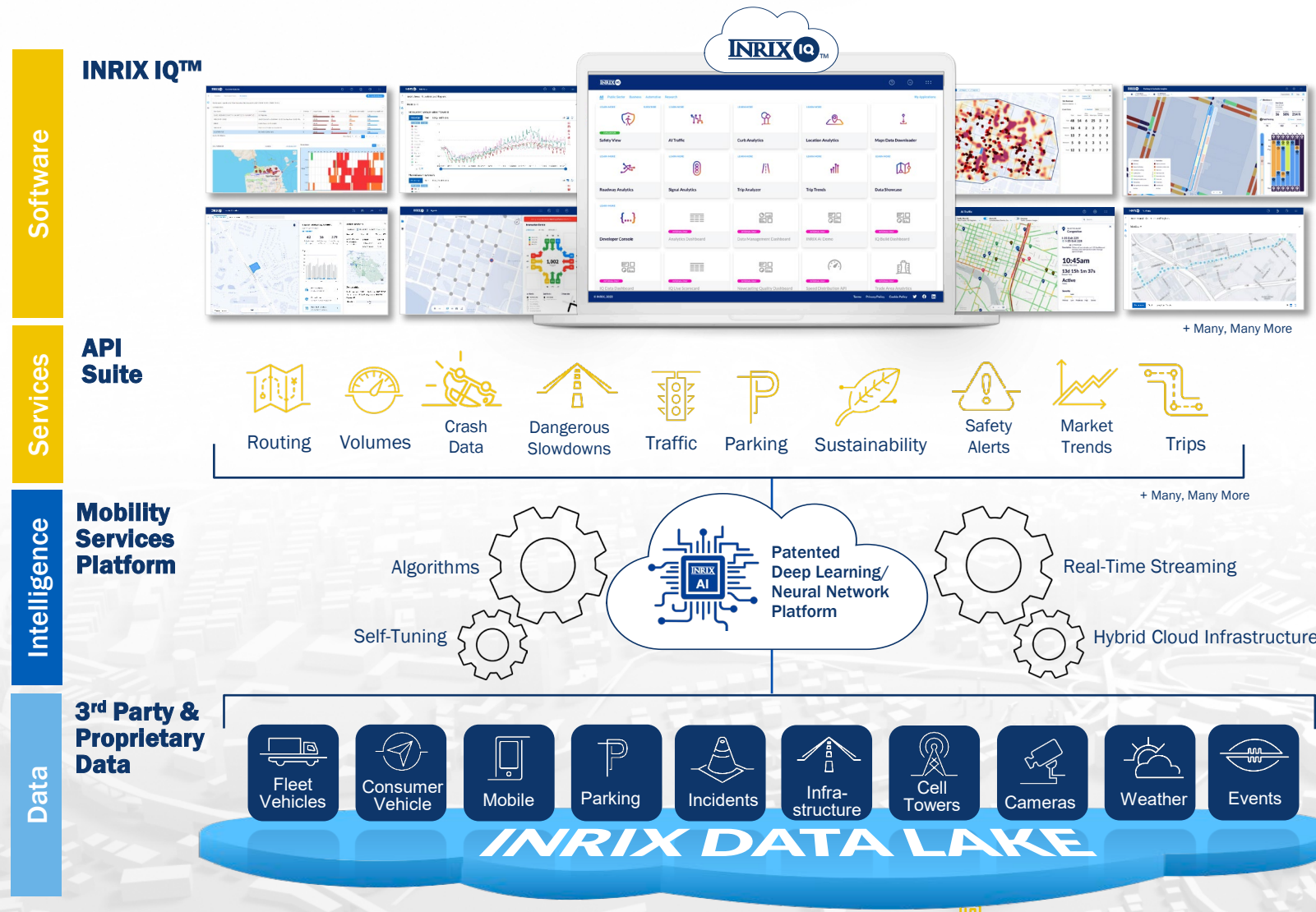
GLOBAL TRAFFIC
SCORECARD

Terri Johnson, P.E., INRIX Director Public Sector Services
James Kuhr, INRIX Customer Success Manager

INRIX

Intelligence that Moves the World

INRIX Mobility Platform



Value Proposition:

- Speed
- Stability
- Scalability

For mission critical solutions



INRIX, CATT LAB and RITIS – oh my!



IQ.INRIX.com



RITIS.org



Navigation - INRIX IQ

[All](#) [Public Sector](#) [Business](#) [Automotive](#) [Research](#)

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Data Downloader

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Mission Control

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Roadway Analytics

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Signal Analytics



INRIX Signal Analytics

All Signalized Intersections & Corridors



Signalized Intersections

Edit Movements

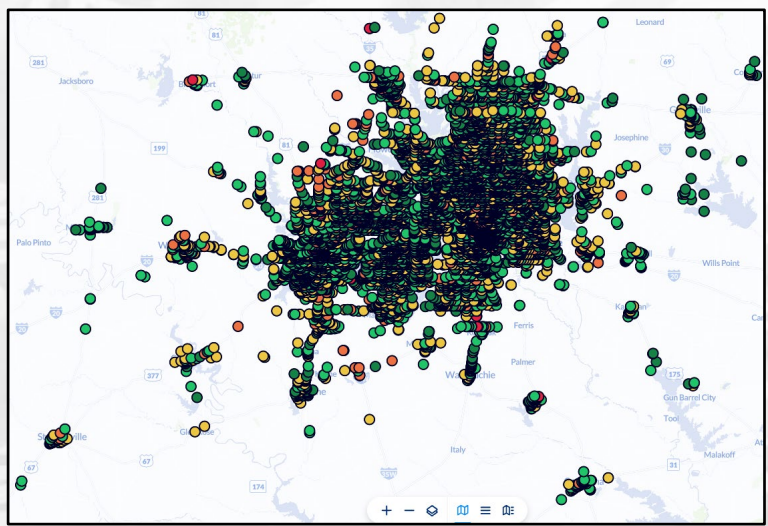
▲ Report Issue

Total Vehicles: 3,386

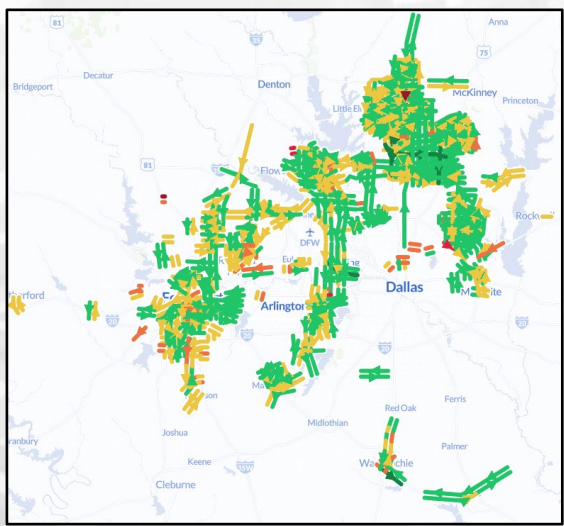
Avg Control Delay/Ve...: 1.0m

Metrics

- Travel Time
- Approach Speed
- Control Delay
- Level of Service
- Turn Ratios
- Observed Veh. Count
- 3+ Min. Delay (Split Fail)
- Stops/Arrivals on Green
- Time-Space Diagram



7,124 Signals



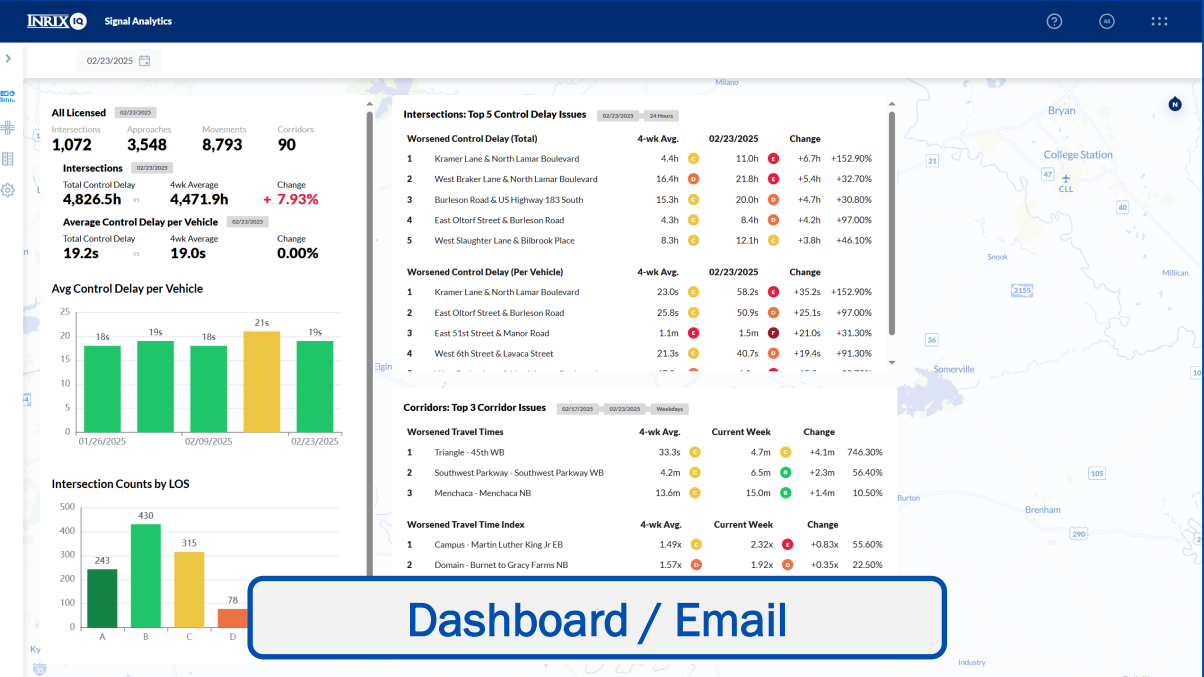
933 Corridors
(Unlimited between Subscribed Intersections)

Corridors

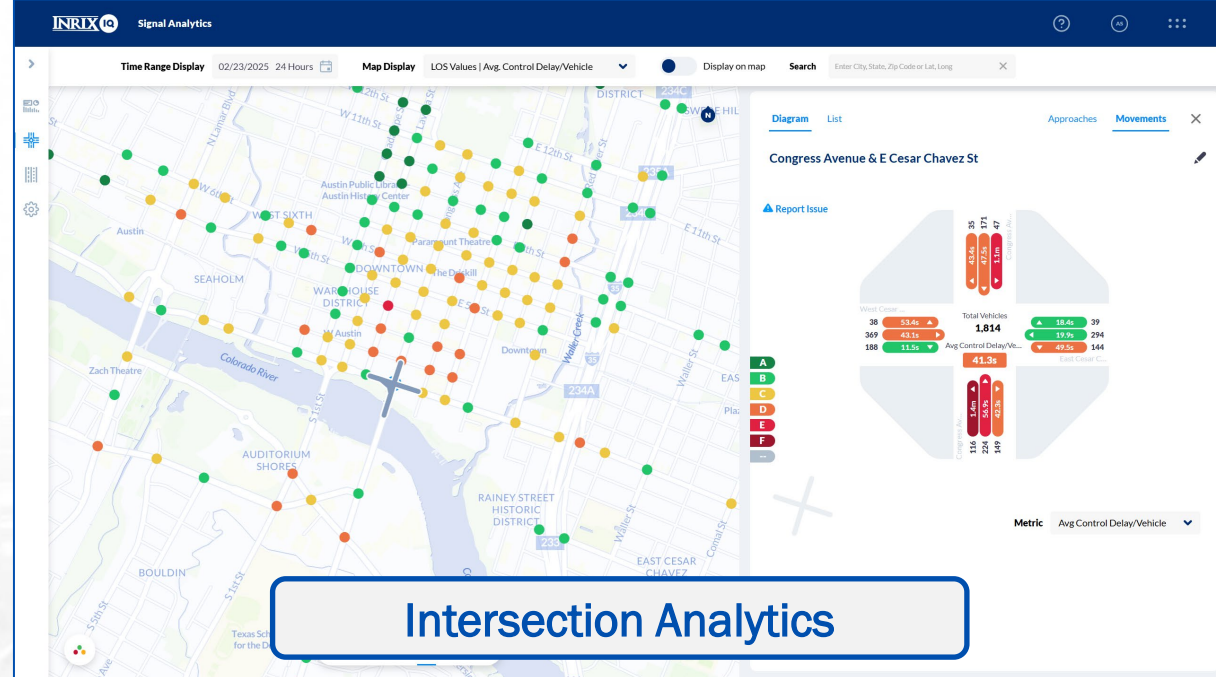
Metrics

- Travel Time
- Vehicle Count
- Time-Space Diagram
- Travel Time Index
- Level of Travel Time Reliability
- Planning Time Index
- Free Flow Travel Time

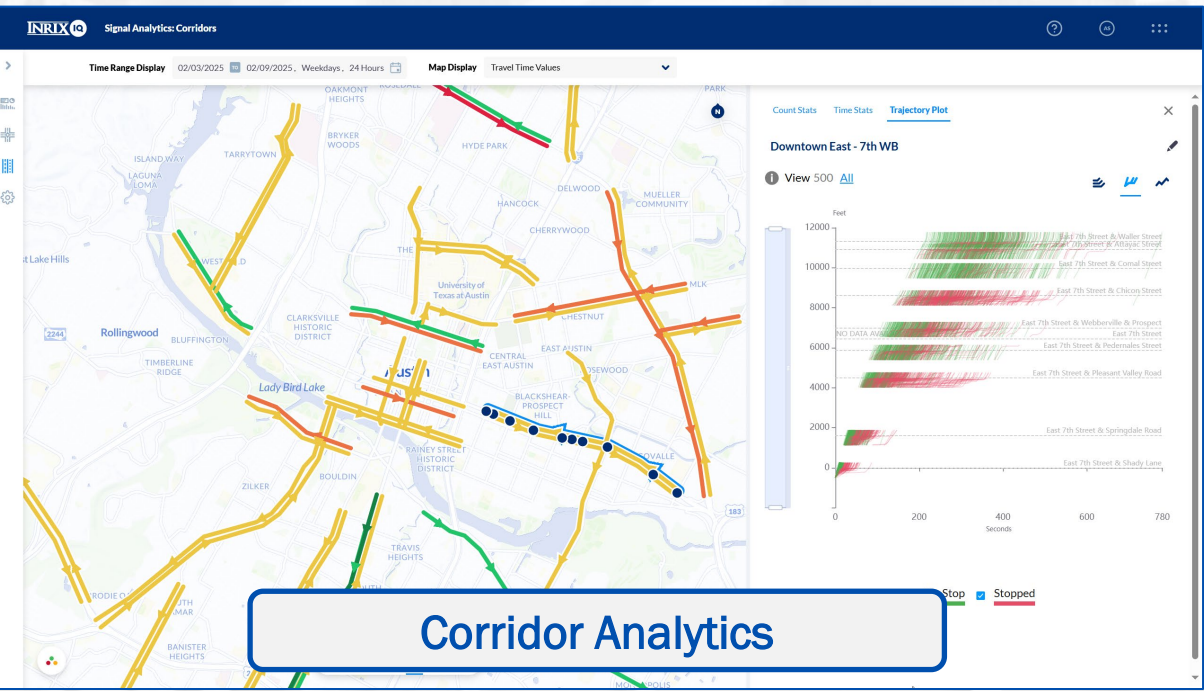




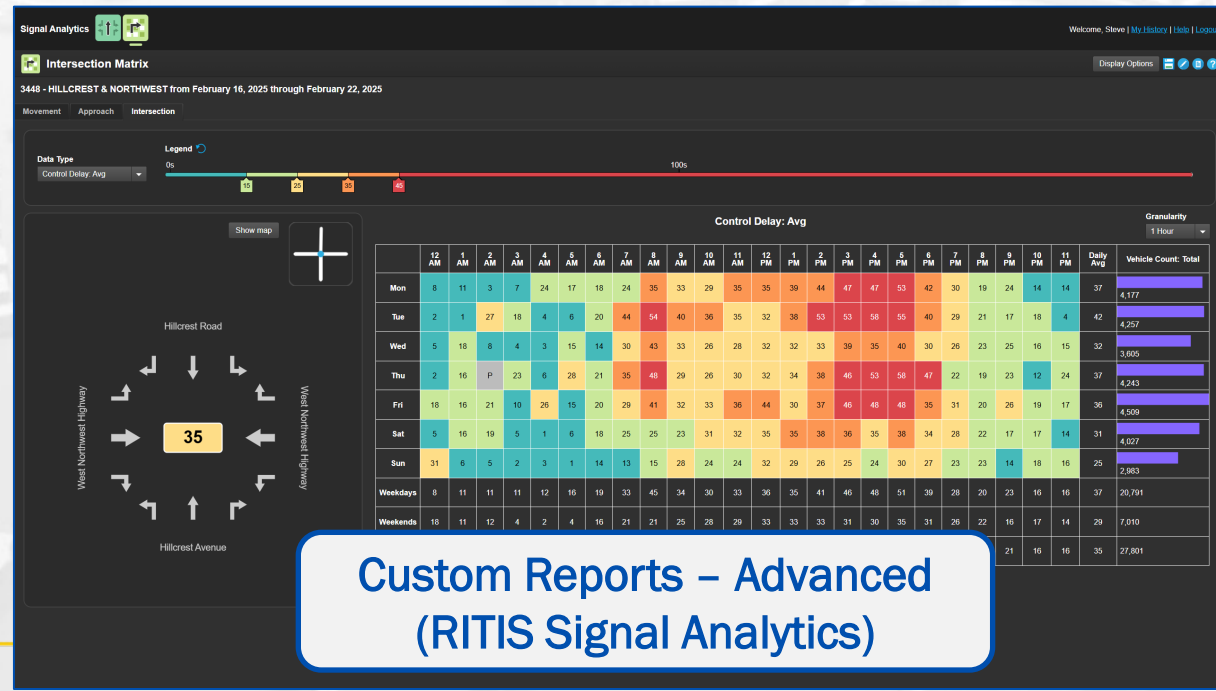
Dashboard / Email



Intersection Analytics



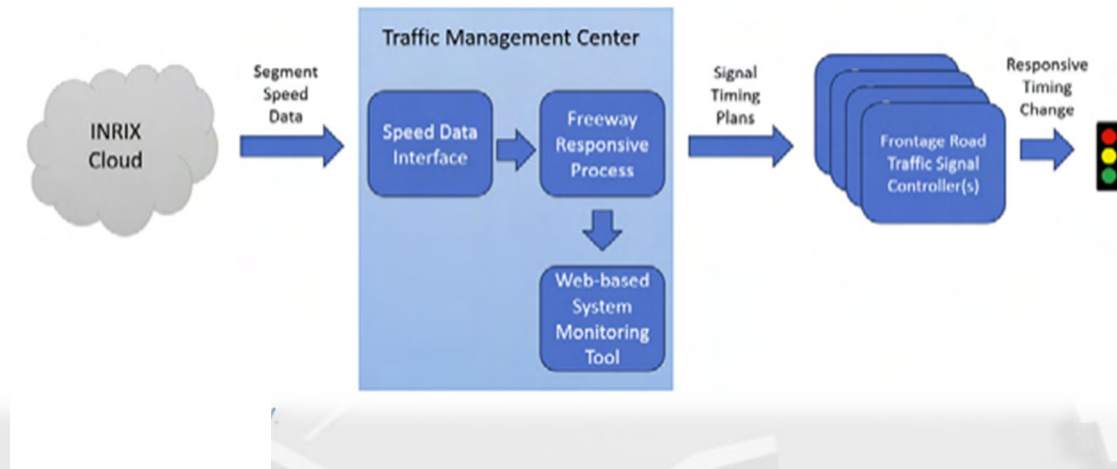
Corridor Analytics



Custom Reports - Advanced (RITIS Signal Analytics)

INRIX Real-Time Data Examples: Implemented/Piloted

- Laredo, Odessa, Atlanta, Bryan District: Congestion/Slow Down Alerts
- El Paso District: Variable Speed Limits
- Fourteen Districts providing Travel Times on DMS
- Houston District: Signal timing changes to automatically flush the ramps



Navigation - RITIS



Browser address bar: <https://www.ritis.org/archive/incident>

Navigation menu:

- Transportation System Status
- Data Archive**
- Personal Traffic Alerts

User greeting: Welcome, [James Kuhr!](#)

Secondary navigation menu:

- [Event Query Tool](#)
- [Detector Tools](#)
- [Congestion Causes](#)
- [Probe Data Analytics](#)
- [NPMRDS Analytics](#)
- [Signals Analytics](#)
- [Trip Analytics](#)

Utility icons: Chat, Settings, Help, Share, Search, Refresh, Home, Back



Historical Data Analysis Tools - Probe Data Analytics (PDA)

- Great for:
 - Rapid response to legislative, media, and public requests
 - Problem confirmation
 - Justifying projects
 - Before & After Studies
 - Federally Mandated Reporting
 - Research
 - Planning Studies
 - Operations AARs
 - Decision Support
 - Real-time Operations
 - Incident Detection


Welcome, David | My History

What's New 11/1/22

- REGION EXPLORER**
Explore the relationships between bottlenecks and traffic events in real-time and in the past.
[Tutorial](#) [Help](#)
- MASSIVE DATA DOWNLOADER**
Download raw probe data from our archive for offline analysis.
[Tutorial](#) [Help](#) [History](#)
- CONGESTION SCAN**
Analyze the rise and fall of congested conditions on a stretch of road.
[Tutorial](#) [Help](#) [History](#)
- CORRIDOR TIME COMPARISON**
View congestion metrics as a function of location on a road.
[Help](#) [History](#)
- TREND MAP**
Create animated maps of roadway conditions.
[Tutorial](#) [Help](#) [History](#)
- PERFORMANCE CHARTS**
Chart performance metrics over time.
[Tutorial](#) [Help](#) [History](#)
- PERFORMANCE SUMMARIES**
Report on Buffer Time Index, Planning Time Index, and other performance metrics.
[Tutorial](#) [Help](#) [History](#)
- BOTTLENECK RANKING**
Rank bottlenecks and discover which ones have the greatest impact.
[Tutorial](#) [Help](#) [History](#)
- USER DELAY COST ANALYSIS**
Put a dollar amount on how much a road's performance impacts its users.
[Tutorial](#) [Help](#) [History](#)
- DASHBOARD**
Create your own personal dashboards to monitor corridor performance in regions of interest.
[Tutorial](#) [Help](#)
- NPMRDS COVERAGE MAP**
Explore the coverage completeness of the NPMRDS on a month-by-month basis.
[Tutorial](#) [Help](#)
- TRAVEL TIME DELTA RANKING**
Rank roads based on their change in travel time performance between two time periods.
[Tutorial](#) [Help](#) [History](#)
- TRAVEL TIME COMPARISON**
Chart travel times to compare performance for different time periods.
[Tutorial](#) [Help](#) [History](#)
- TEMPORAL COMPARISON MAPS**
Analyze performance metrics of any road segment by one or more time ranges.
[Help](#) [History](#)
- TUTORIALS**
Learn how to use each of the tools in the suite.
[How TO...](#)
- MAP-21**
Create a dashboard widget to monitor states', MPOs', and Urbanized Areas' performances against the new MAP-21 ruling.
[Help](#)
- REPORT TEMPLATES**
Learn how to transform data from tools in our suite into professional storytelling reports, documents, and

Support

RITIS Example Dallas Texas

Probe Data Analytics Suite  Welcome, James | [My History](#) | [Help](#) | [Tutorials](#) | [Templates](#) | [Logout](#)

Days Months Years

04/13/2025 - through - 12/13/2025

Create a single time period for this range

Limit to specific days of the week

Sun Mon Tue Wed Thu Fri Sat

Create a time period for each day within this range ?

[+ Add time period](#)

Your selected time periods Remove All

- October 14, 2024 through April 11, 2025 (130 days) Every weekday
- April 14, 2025 through December 12, 2025 (175 days) Every weekday


5. Select granularity

- 1 minute
- 5 minutes
- 10 minutes
- 15 minutes
- 1 hour
- Day of week

6. Provide a title for this report (optional)

SH 121 EB split to EB IH 635

<https://pda.ritis.org/suite/trend-map/>



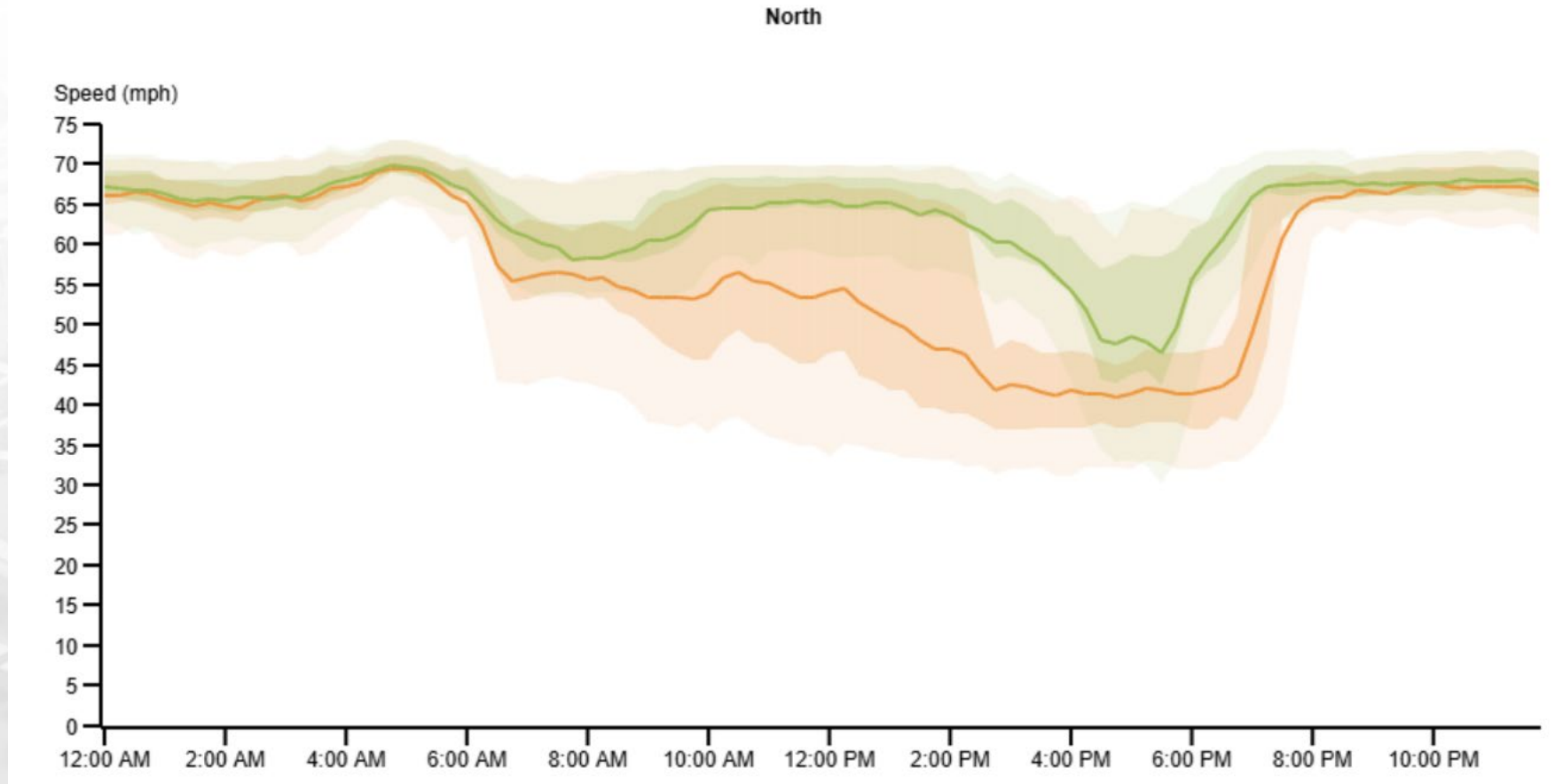
RITIS Example Dallas Texas

Speed for TX-121 N bearing north from I-635 E to INTERNATIONAL PKWY N and 1562825582 to 1562825582

Averaged per fifteen minutes for October 14, 2024 through April 11, 2025 (Every weekday) and April 14, 2025 through December 12, 2025 (Every weekday)



North



Historic Data



MASSIVE DATA DOWNLOADER

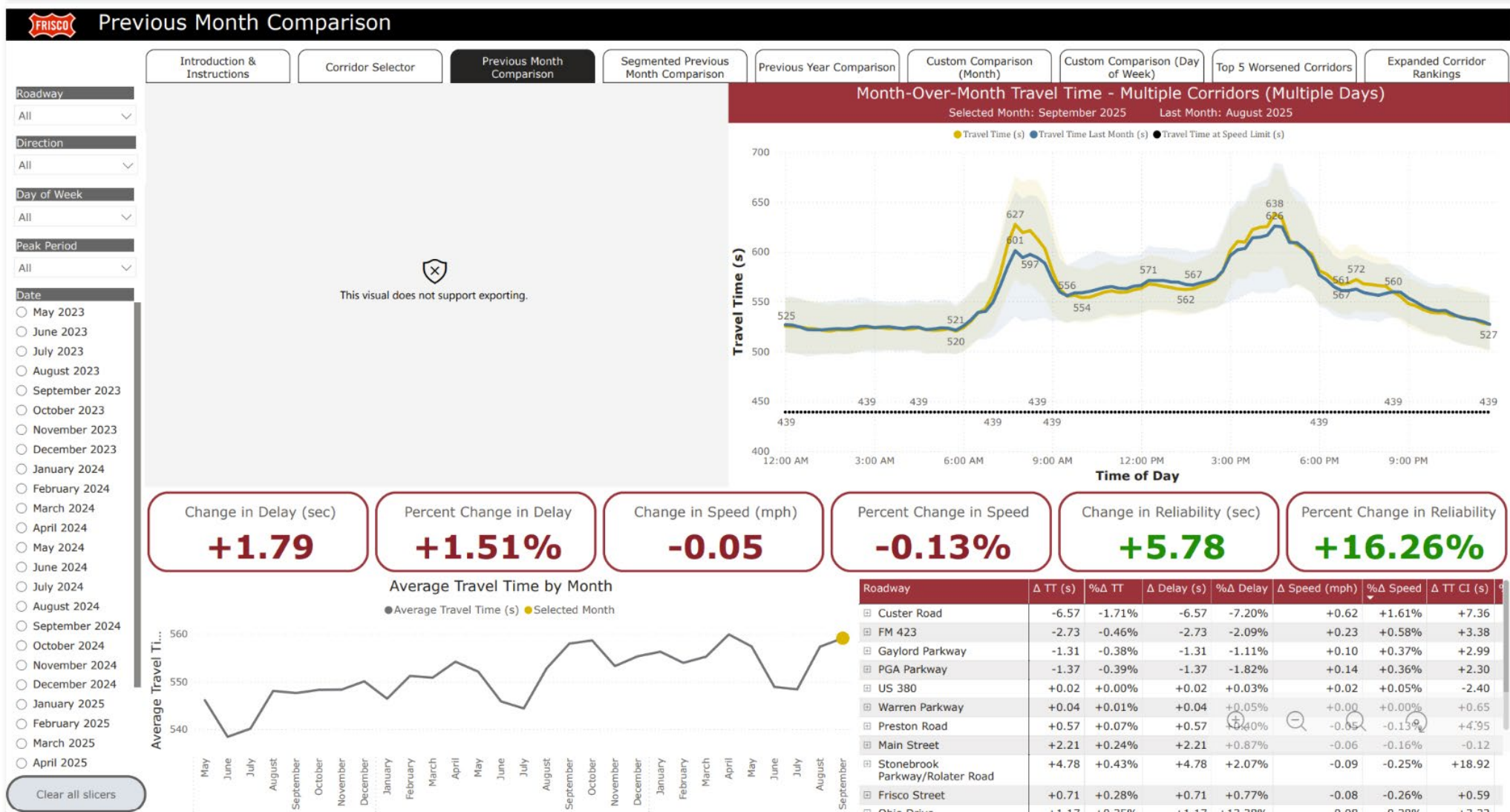
Download raw probe data from our archive for offline analysis.

[Tutorial](#) [Help](#) [History](#)

E4															
	A	B	C	D	E	F	G	H	I						
1	xd_id	measurement_ts	speed	historical	reference	travel_time	confidence	cvalue							
2	1595258373	1/5/2026 0:00	25	34	34	0.26	30	88							
3	1595258373	1/5/2026 0:15	26	34	34	0.25	30	90							
4	1595258373	1/5/2026 0:30	27.72	34	34	0.24	30	90							
5	1595258373	1/5/2026 0:45	22.66	34	34	0.29	30	90							
159 A1															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
8	159.1	xd	road-name	road-num	bearing	miles	frc	county	state	zip	timezone	start_latitude	start_longitude	end_latitude	end_longitude
9	159.2	1.6E+09	ED BLUESTEIN BLVD	S	0.110211	3	TRAVIS	TX	78723	America/C	30.3259	-97.6746	30.32484	-97.67	
10	159.3	1.6E+09		N	0.658986	3	TRAVIS	TX	78724	America/C	30.31976	-97.6655	30.32666	-97.66	
11	159.4	9.37E+08	US-183-TC	183	N	0.500343	3	TRAVIS	TX	78723	America/C	30.28488	-97.6654	30.29194	-97.66
12	159.5	1.6E+09	ED BLUESTEIN BLVD	N	0.717094	3	TRAVIS	TX	78724	America/C	30.31736	-97.6631	30.32474	-97.67	
13	159.6	1.6E+09	US-290 E		W	0.062508	3	TRAVIS	TX	78723	America/C	30.3259	-97.6746	30.32554	-97.67
14	159.7	1.6E+09			W	0.156819	3	TRAVIS	TX	78723	America/C	30.32506	-97.6753	30.32431	-97.67
15	159.8	1.6E+09	US-290 E		E	0.048379	3	TRAVIS	TX	78723	America/C	30.32462	-97.674	30.32484	-97.67
16	159.9	4.5E+08	US-183 S	183	S	0.717257	3	TRAVIS	TX	78723	America/C	30.30269	-97.6613	30.29259	-97.6
17	159.10	1.6E+09	US-290 E		E	0.071588	3	TRAVIS	TX	78723	America/C	30.32484	-97.6732	30.32521	-97.67



Example: Frisco



Example: TTI/TxDOT

<https://txcat.tti.tamu.edu>

Texas Congestion Analysis Tools and Resources

OVERVIEW REFERENCE MATERIAL MOBILITY REPORTING/CASE STUDIES USER GROUPS RESOURCES

Texas Congestion Analysis Tools (TxCAT)

- Home
- Top 100
- COMPAT
- TCAT
- Roadway Performance Dashboard
- Mitigation Plan System
- Fullscreen

TOP 100 Congested Road Segments

In 2009, TTI analyzed 2,253 road segments covering over 10,000 miles in Texas.

STATISTICS
Statewide
Health Delay (2012): 505,721,564 Hours
Congestion Cost (2012): \$13,443,018,416
Wasted Fuel (2012): 144,853,420 Gallons

TOP 5 SEGMENTS
Texas
Rank 1: Loop Freeway (I-10) ...
Rank 2: ...
Rank 3: ...
Rank 4: ...
Rank 5: ...

COMPAT
Congestion Management Process Assessment Tool

Truck Congestion Analysis Tool (TCAT)
The Truck Congestion Analysis Tool (TCAT) is a planning tool for analyzing and monitoring truck mobility.

Top 100 Most Congested Road Segments

In 2009, the Texas Legislature mandated that the Texas Department of Transportation annually produce a ranked list of the most congested road segments in the state. This list measures congestion by the number of extra hours of travel time (also called 'delay') experienced by travelers on over 2,100 road segments covering roughly 10,000 miles.

[OPEN](#)

Congestion Management Process Assessment Tool (COMPAT)

The Congestion Management Process Tool (COMPAT) was designed specifically with the Metropolitan Planning Organization (MPO) and congestion management process (CMP) in mind. Based off a statewide roadway performance data set produced as part of the Texas 100 Most Congested Road Segments, COMPAT offers a number of features to assist in the CMP process. These include regional summaries, stored monitored road segments, and data upon

Truck Congestion Analysis Tool (TCAT)

The Truck Congestion Analysis Tool (TCAT) is a planning tool for analyzing and monitoring truck mobility. This tool provides users access to mobility performance measures on the majority of the major roads in Texas. Where COMPAT is MPO-centric, TCAT is statewide in coverage. The mobility performance measures found in TCAT are developed as part of the Texas Most Congested Roadways (<https://mobility.tamu.edu/texas-mostcongested-roads/>). These performance measures are based on both

<https://mobility.tamu.edu/texas-most-congested-roads/>

Thank you!



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