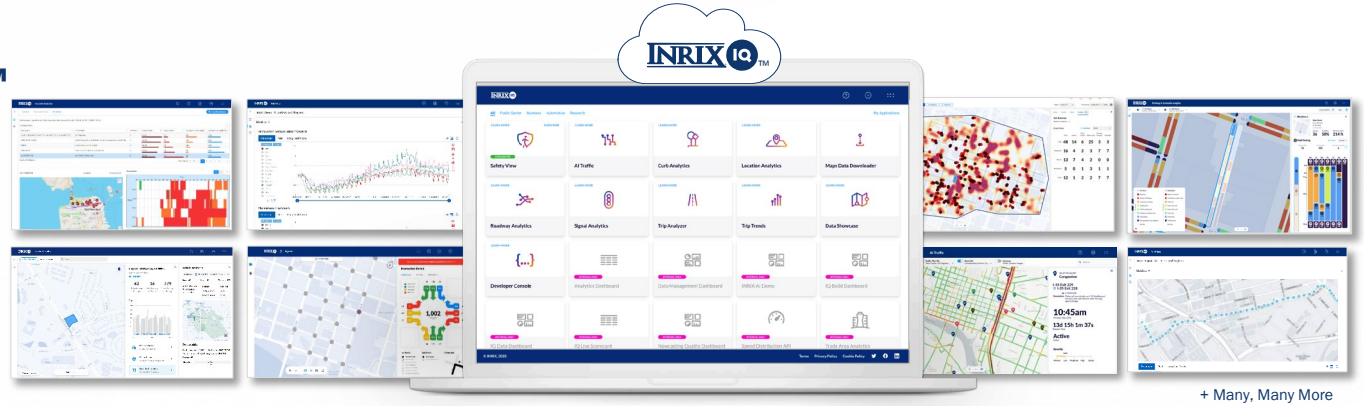
INRIX Services Overview

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

INRIX Mobility Platform

Software

INRIX IQ™



+ Many, Many More

Services

API Suite

Routing | Volumes | Crash Data | Dangerous Slowdowns | Traffic | Parking | Sustainability | Safety Alerts | Market Trends | Trips

+ Many, Many More

Intelligence

Mobility Services Platform

Algorithms

Self-Tuning

Patented Deep Learning/ Neural Network Platform

Real-Time Streaming

Hybrid Cloud Infrastructure

Data

3rd Party & Proprietary Data

Fleet Vehicles | Consumer Vehicle | Mobile | Parking | Incidents | Infra-structure | Cell Towers | Cameras | Weather | Events

INRIX DATA LAKE

Value Proposition:

- Speed
- Stability
- Scalability

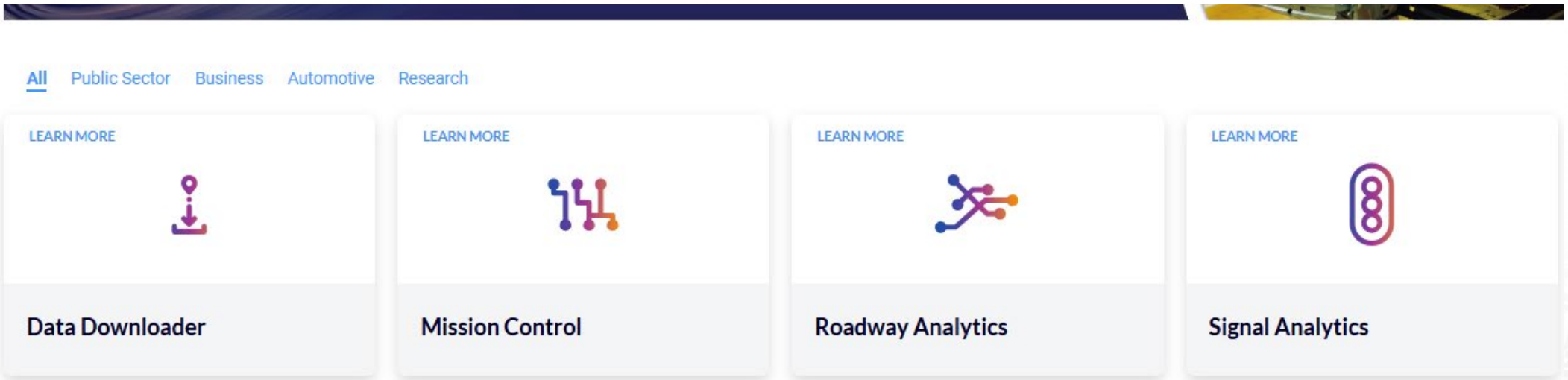
For mission critical solutions

INRIX, CATT LAB and RITIS – oh my!

IQ.INRIX.com

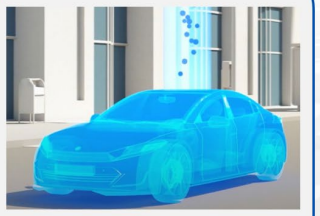
RITIS.org

Navigation – INRIX IQ

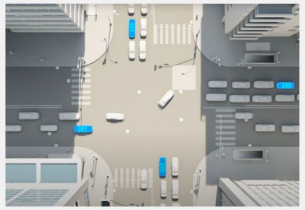


INRIX Signal Analytics

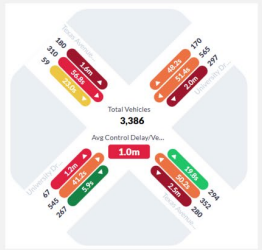
All Signalized Intersections & Corridors



Probe Vehicle Data

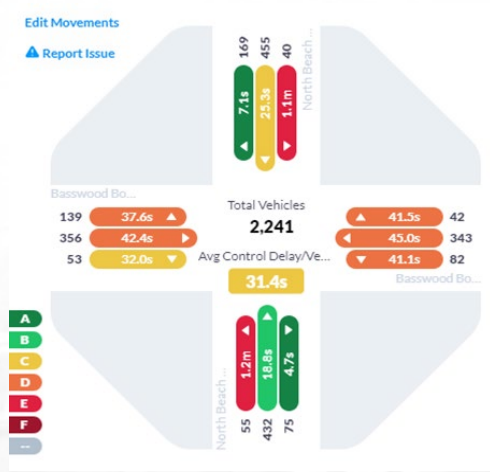


Observed Travel Times



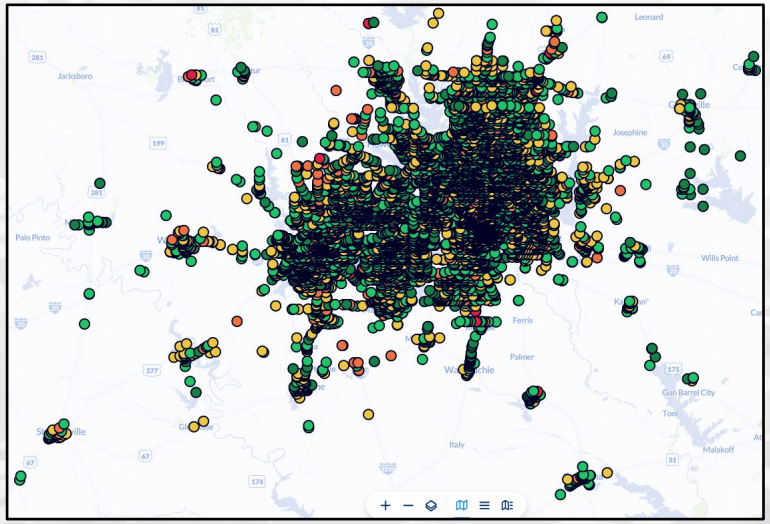
Signal Performance Metrics

Signalized Intersections

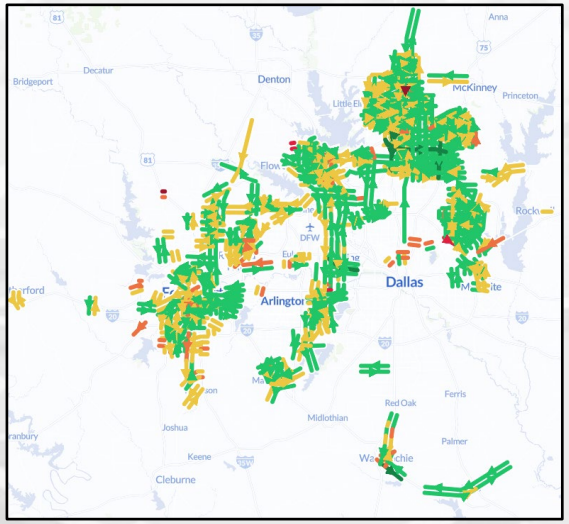


Metrics

- 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

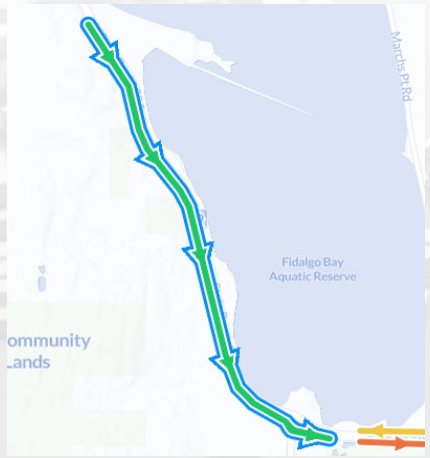


7,124 Signals



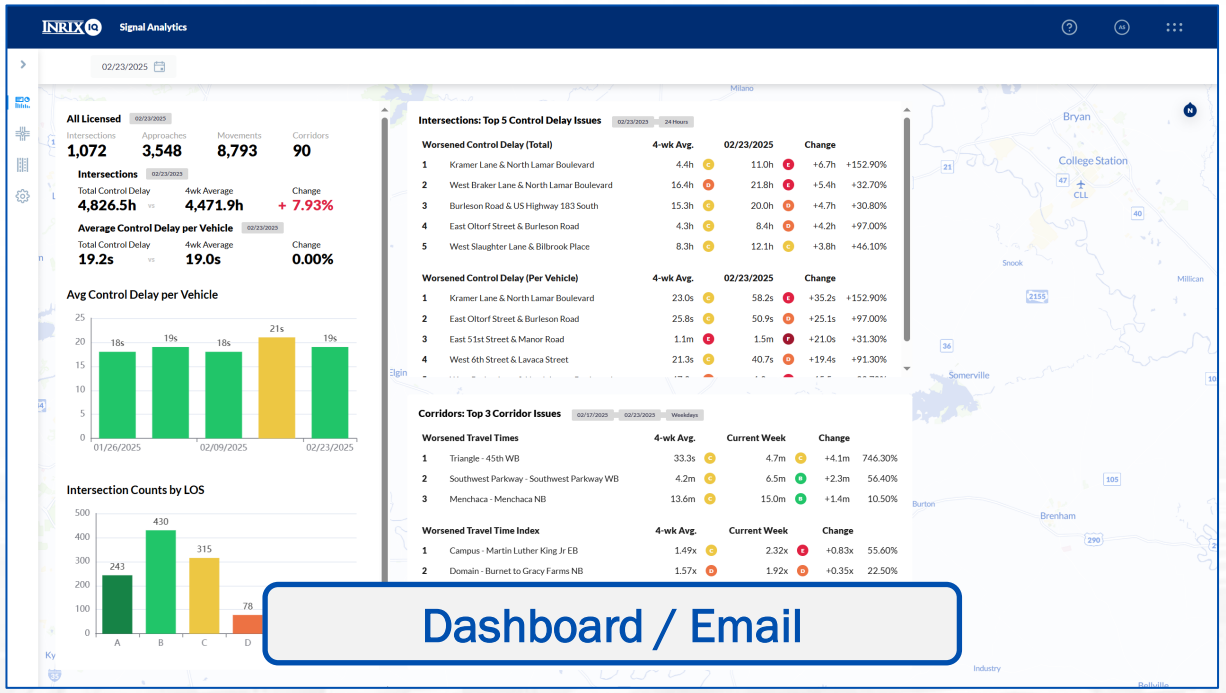
933 Corridors
(Unlimited between Subscribed Intersections)

Corridors

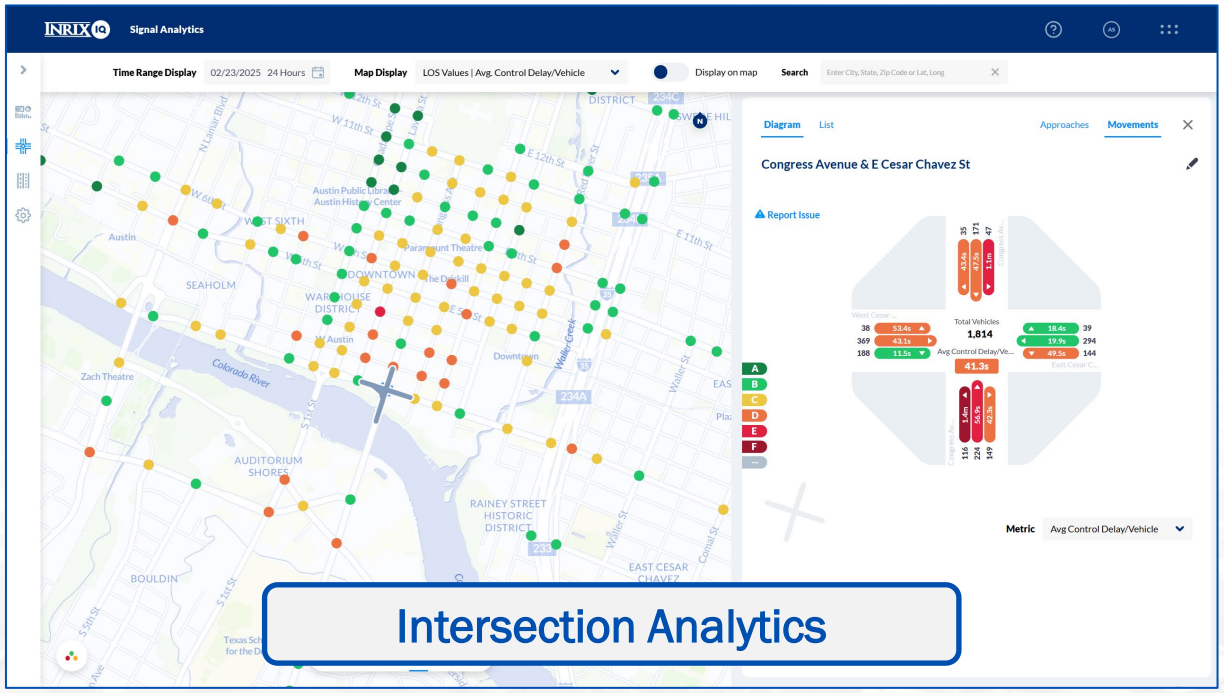


Metrics

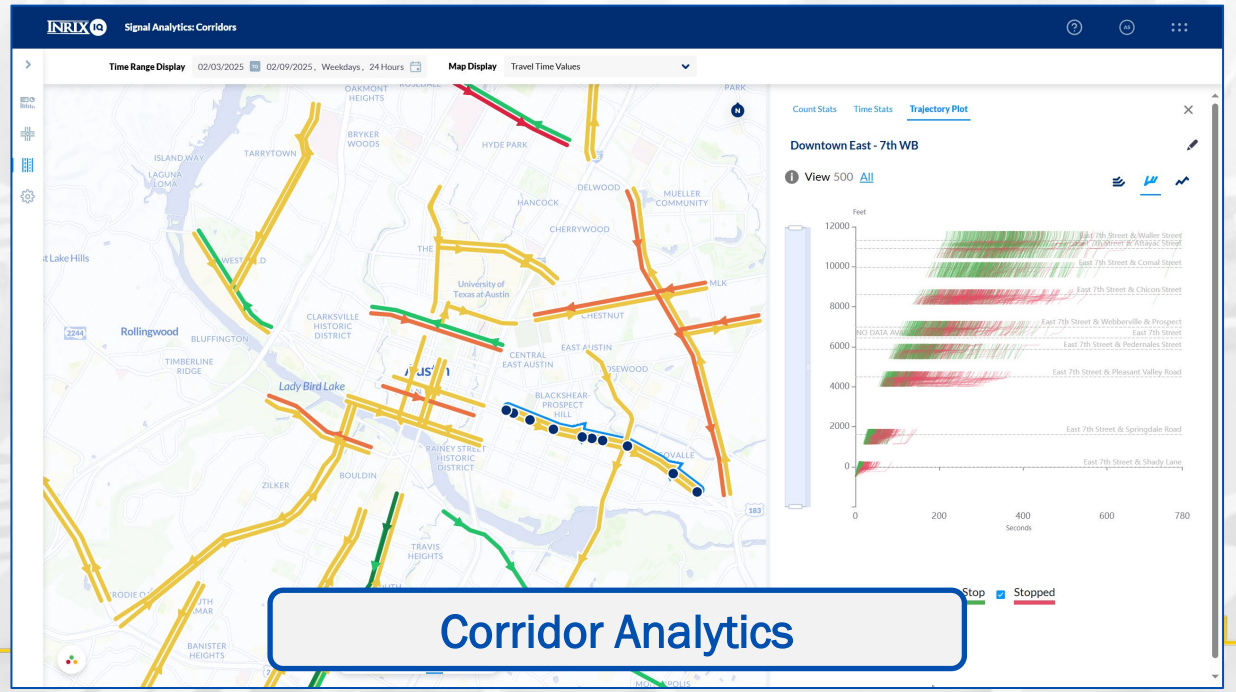
- Travel Time
- Vehicle Count
- Time-Space Diagram
- Travel Time Index
- Level of Travel Time Reliability
- Planning Time Index
- Free Flow Travel Time



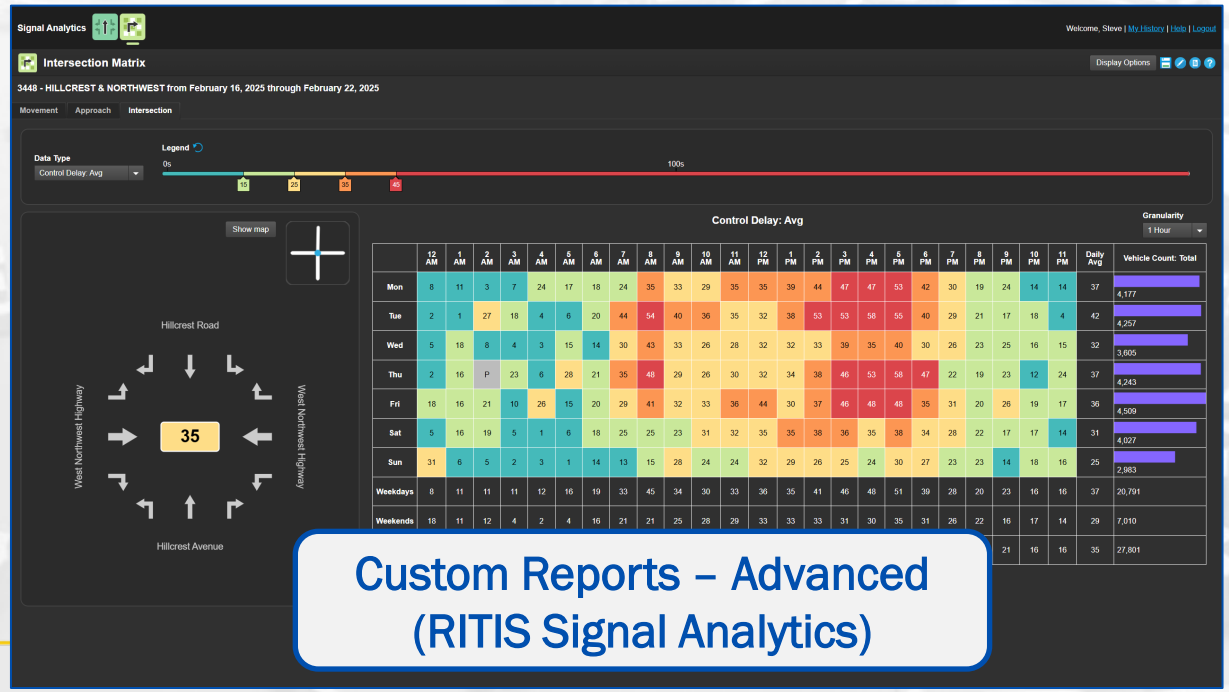
Dashboard / Email



Intersection Analytics



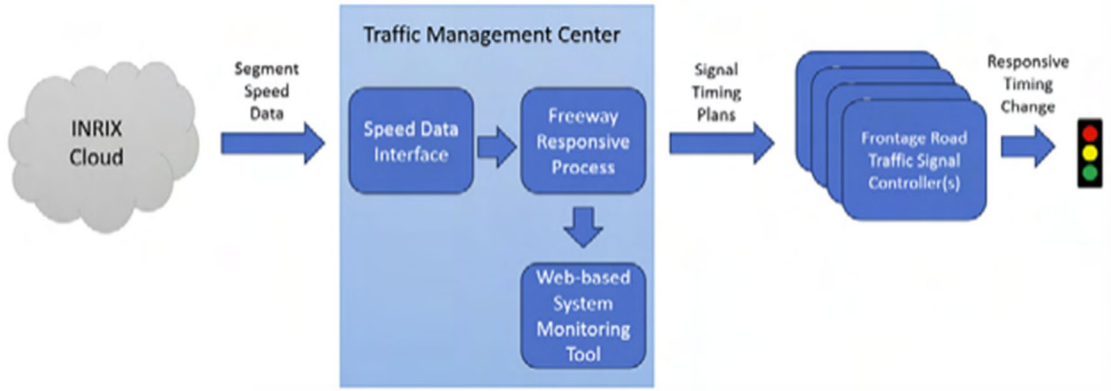
Corridor Analytics



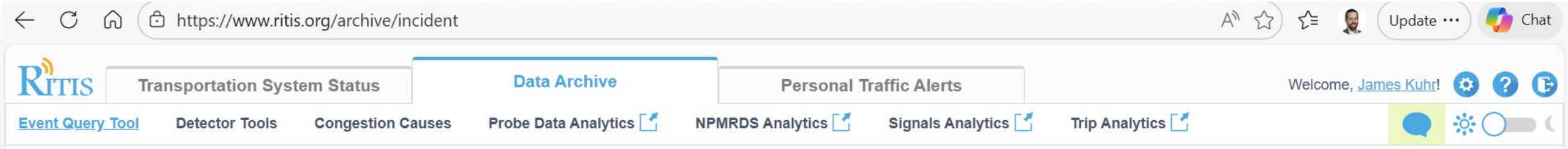
Custom Reports – Advanced (RITIS Signal Analytics)

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



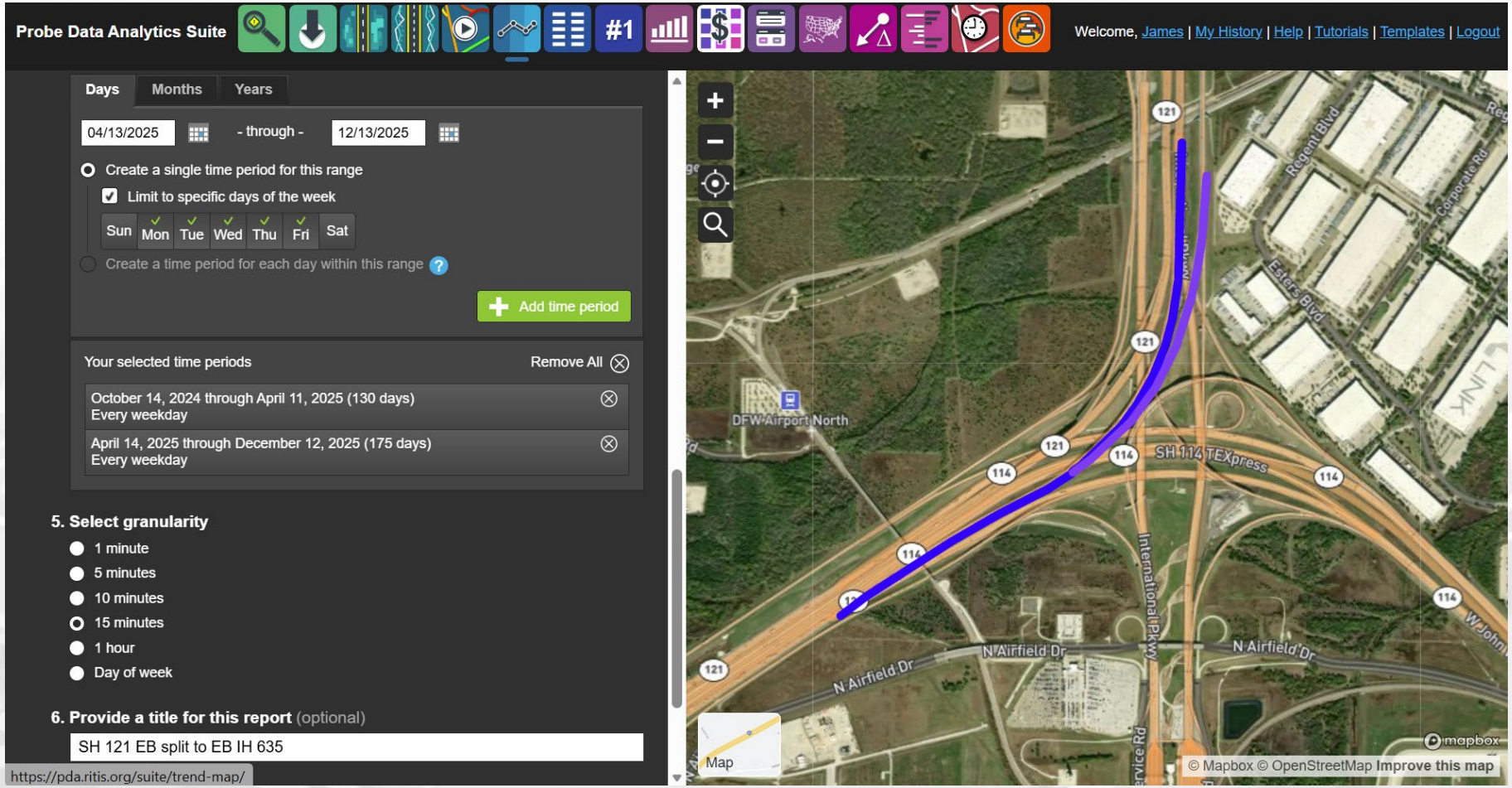
Navigation - RITIS



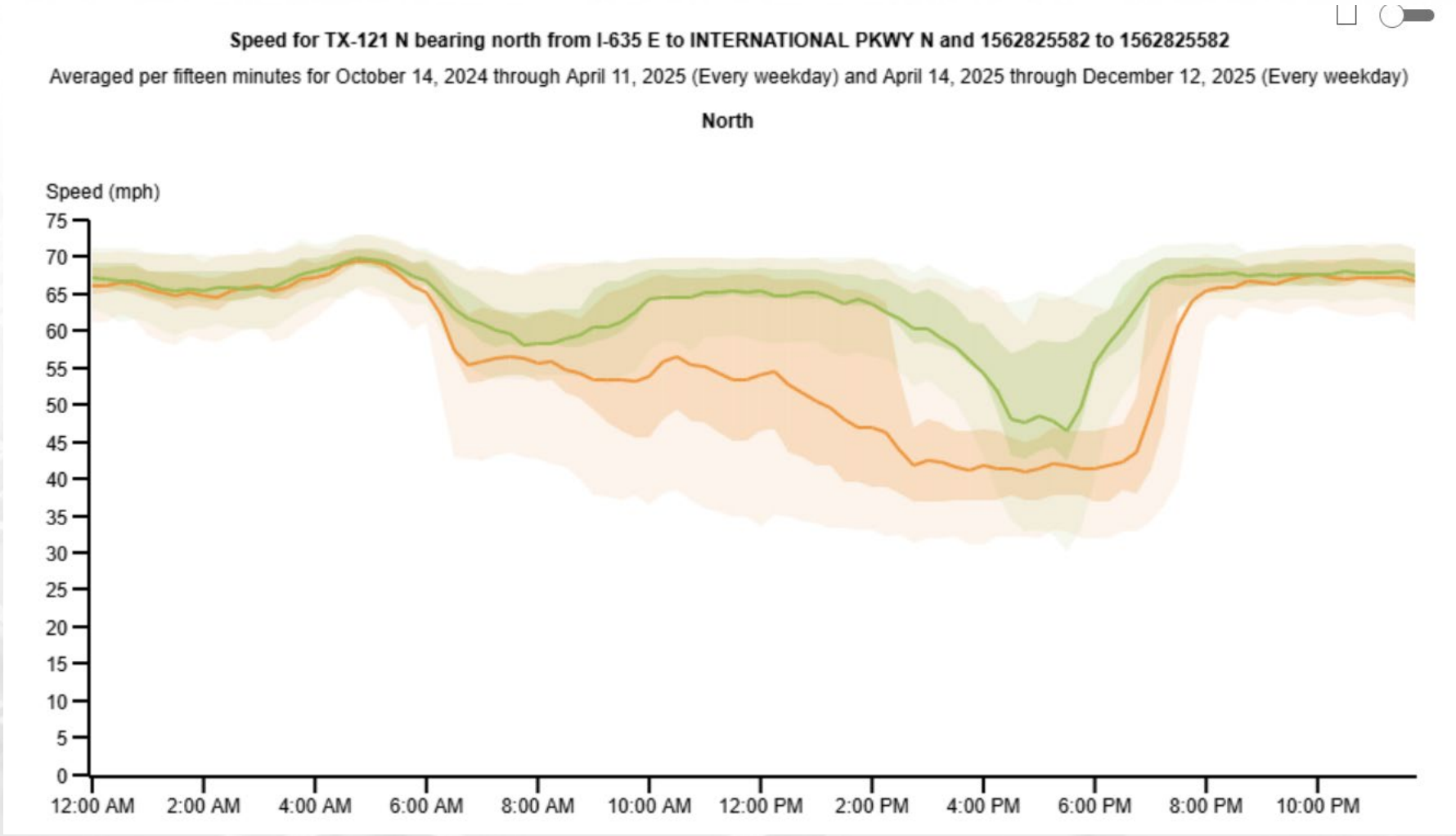
Historical Data Analysis Tools - Probe Data Analytics (PDA)

- 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

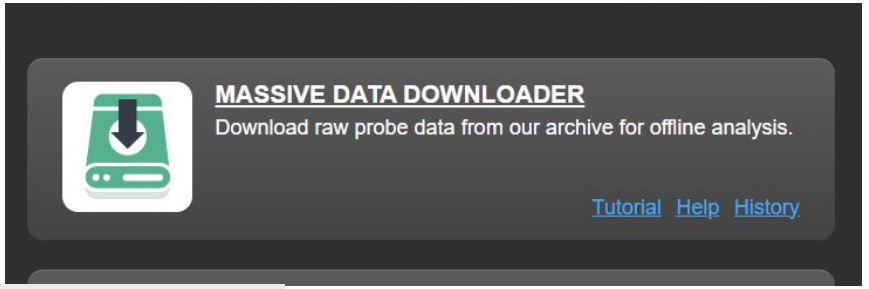
RITIS Example Dallas Texas



RITIS Example Dallas Texas



Historic Data



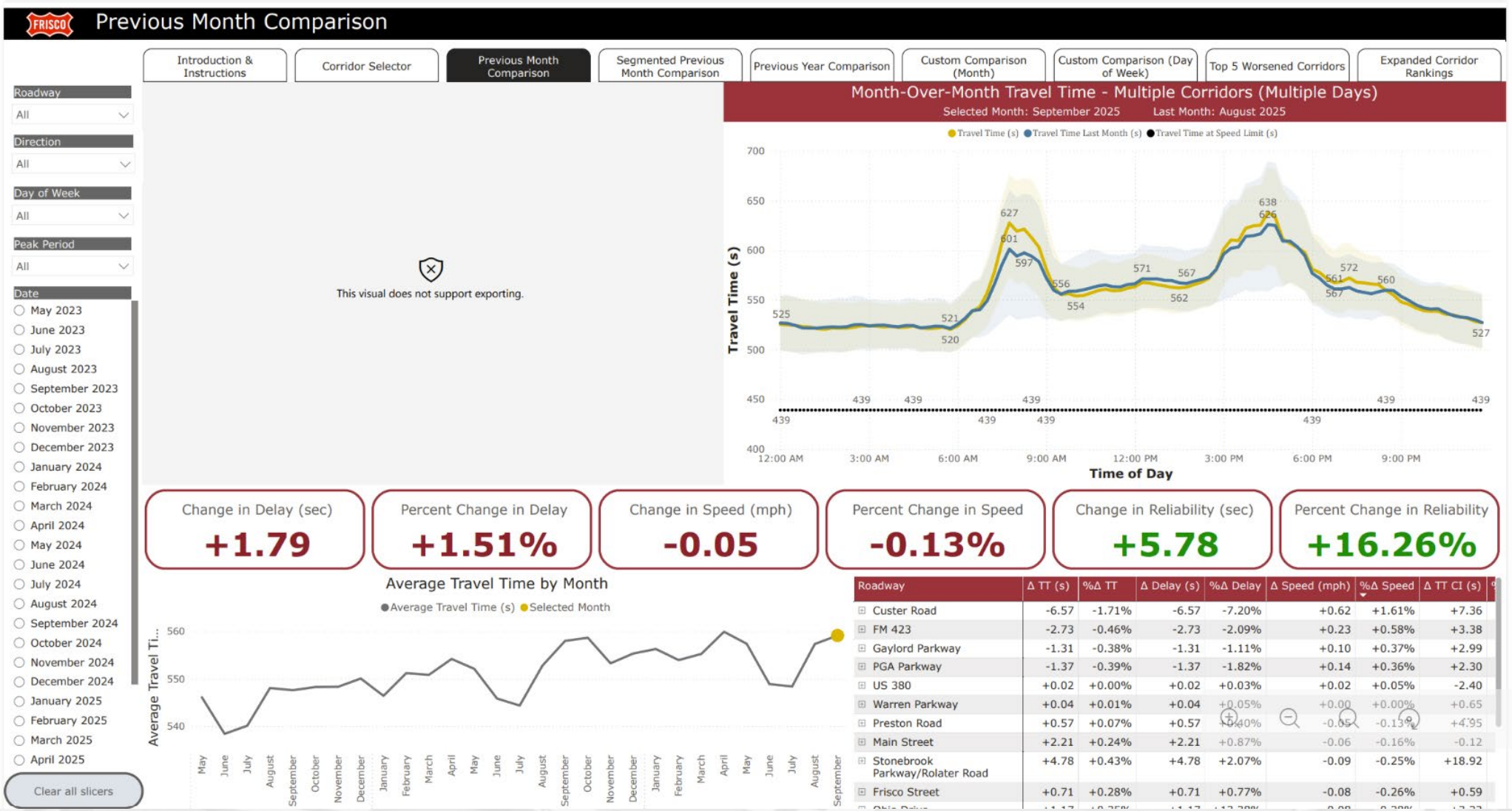
E4 | 34

	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	
6	159								
7	159								
8	159								
9	159								

A1 | xd

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	xd	road-name	road-num	bearing	miles	frc	county	state	zip	timezone_	start_latitu	start_longi	end_latitu	end_lor
2	1.6E+09	ED BLUESTEIN BLVD		S	0.110211	3	TRAVIS	TX	78723	America/C	30.3259	-97.6746	30.32484	-97.67
3	1.6E+09			N	0.658986	3	TRAVIS	TX	78724	America/C	30.31976	-97.6655	30.32666	-97.66
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
5	1.6E+09	ED BLUESTEIN BLVD		N	0.717094	3	TRAVIS	TX	78724	America/C	30.31736	-97.6631	30.32474	-97.67
6	1.6E+09	US-290 E		W	0.062508	3	TRAVIS	TX	78723	America/C	30.3259	-97.6746	30.32554	-97.67
7	1.6E+09			W	0.156819	3	TRAVIS	TX	78723	America/C	30.32506	-97.6753	30.32431	-97.67
8	1.6E+09	US-290 E		E	0.048379	3	TRAVIS	TX	78723	America/C	30.32462	-97.674	30.32484	-97.67
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
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.edu.tamu.edu

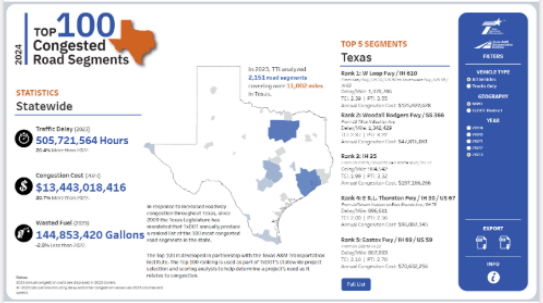
Update

Texas Congestion Analysis Tools (TxCAT)

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

Texas Congestion Analysis Tools and Resources

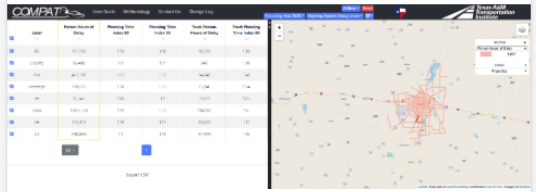
OVERVIEW | REFERENCE MATERIAL | MOBILITY REPORTING/CASE STUDIES | USER GROUPS | RESOURCES



Top 100 Most Congested Road Segments

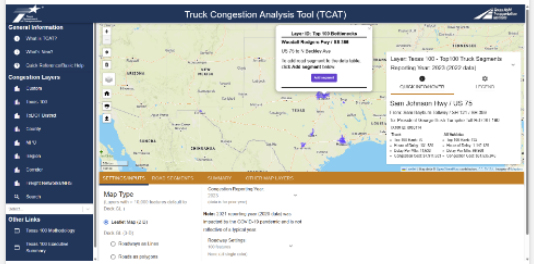
In 2009, the Texas Legislature mandated that the Texas Department of Transportation annually produce a ranked list of the most congested road segments in the state. This list measures congestion by the number of extra hours of travel time (also called 'delay') experienced by travelers on over 2,100 road 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-roadways/). These performance measures are based on both

https://mobility.tamu.edu/texas-most-congested-roadways/

Thank you!