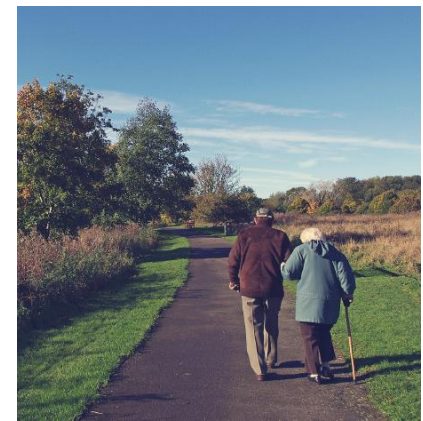
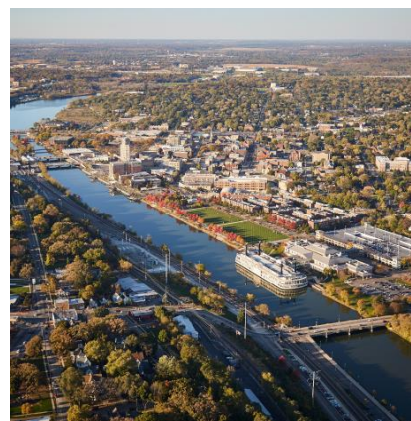
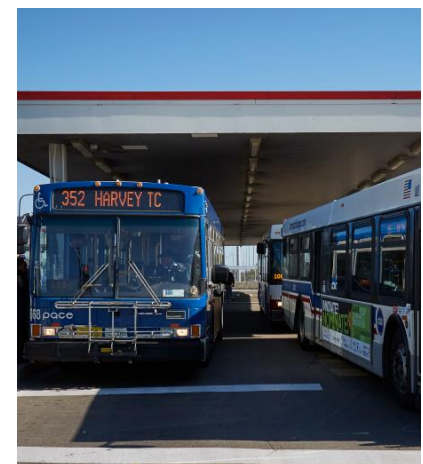


Transportation Technology and Operations Coalition

August 6, 2026

9:30 – 11:00 a.m.

When you are not speaking, please mute your microphone to reduce background noise.



1.0 Welcome

2.0 Agency updates

Open discussion among TTOC members regarding current work projects, topics of interest for upcoming meetings, etc.

3.0 CMAP announcements

Aaron Brown and Noah Harris, CMAP

4.0 Travel Midwest update

John Dillenburg, University of Illinois Chicago

TravelMidwest.com

IDOT / UIC Gateway Traveler Information System

John Dillenburg

Senior Research Scientist
Project Manager / Co-PI



Illinois Department
of Transportation



ENGINEERING Computer Science

Agenda

Statewide

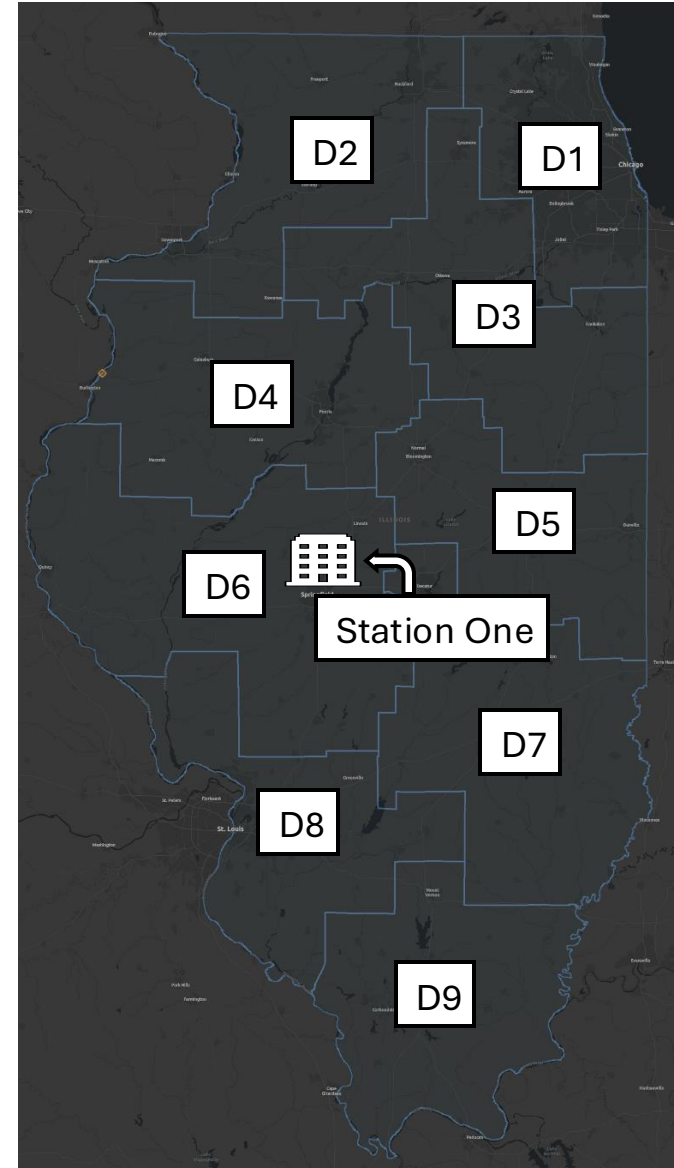
- TravelMidwest.com
- Incident Entry
- Truck Parking

District One

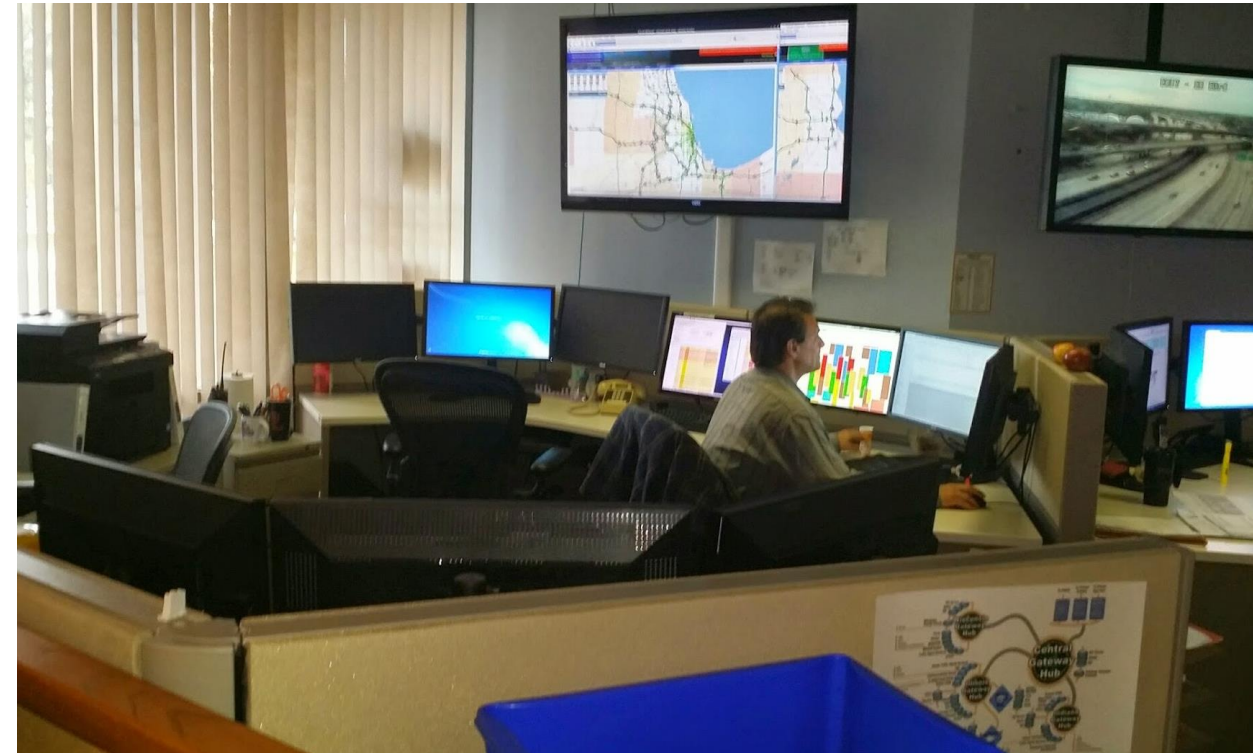
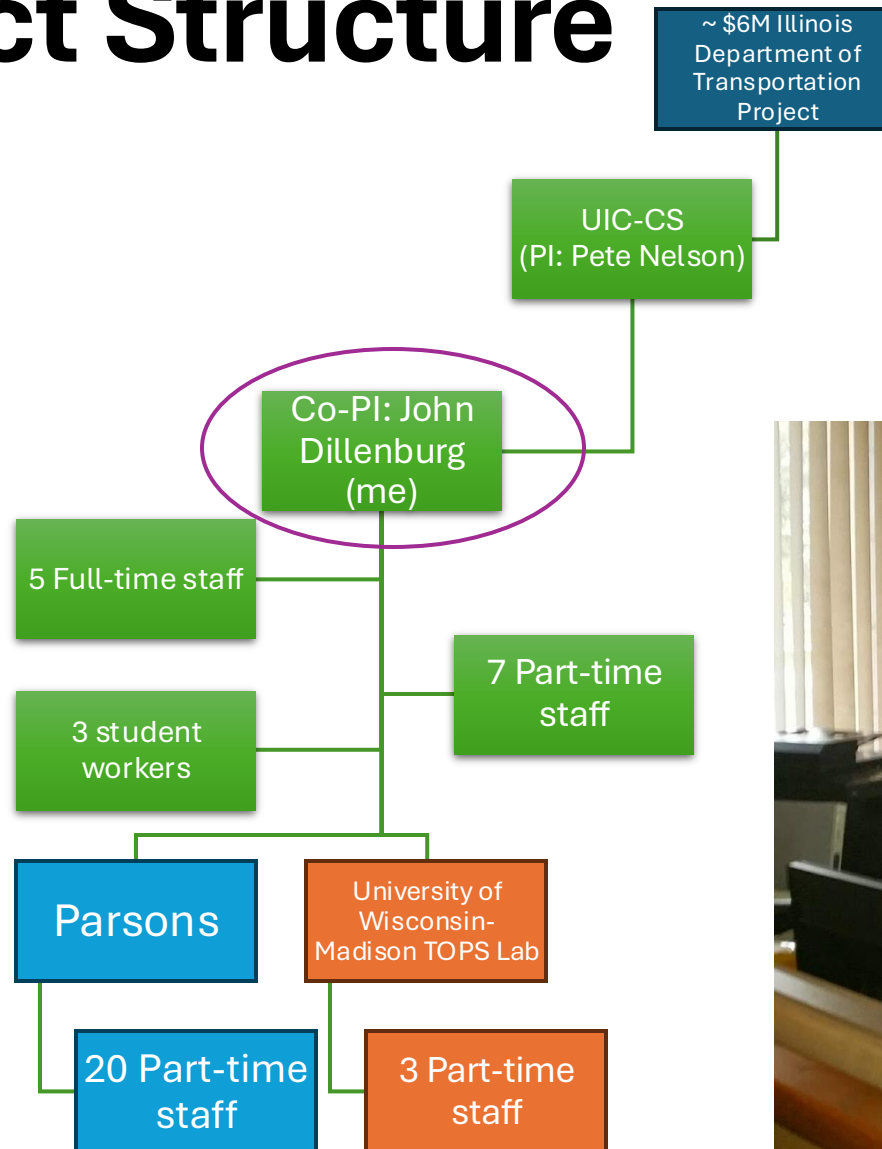
- Lane Closure System
- Arterial Construction Tracking System

Project and its mission

- Operates and maintains **traveler information** systems for roads and highways across Illinois
- Consolidates data from multiple data sources throughout Illinois and surrounding states
- “511” without the phone
- 24/7 operations



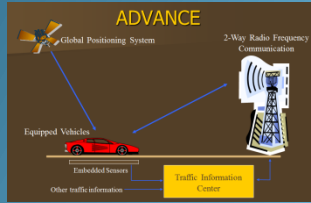
Project Structure



History



ITSA
“Best Of”
Awards
2002 and 2003



ADVANCE Project
FHWA, IDOT, IUTRC,
and Motorola
1991



www.travelinfo.org
Gateway Project
Parsons and UIC
June 1998

Illinois Tollway
Data Integrated
March 2003



Historical data
www.gcmtravelstats.com
October 2004

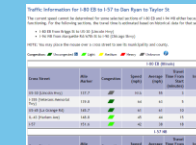
24/7
Operations
UIC and
Delcan
2008



2010



Mobile app
October 2012



Trip Alert System

July 2016

Real-time
Private sector
Data
2018



New map +
Mobile website
2019



Standards and Integration Era

Buy-In Era

Mission Critical Era

ISTEA
Legislation
1991

C-TIC Project
De Leuw – Cather
and UIC
1996

June 2001
Gateway system
www.gcmtravel.com



May 2005
WML Travel Times



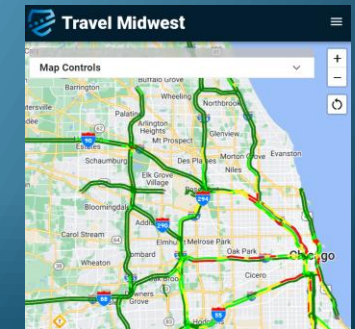
August 2010
LMIGA
TravelMidwest.com



2013 Expressway Closure Tracking

www.idofacts.com
2016
Arterial Construction
Tracking

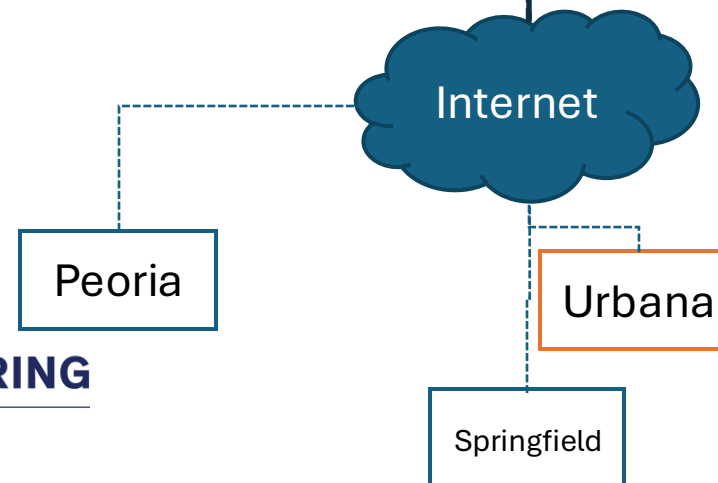
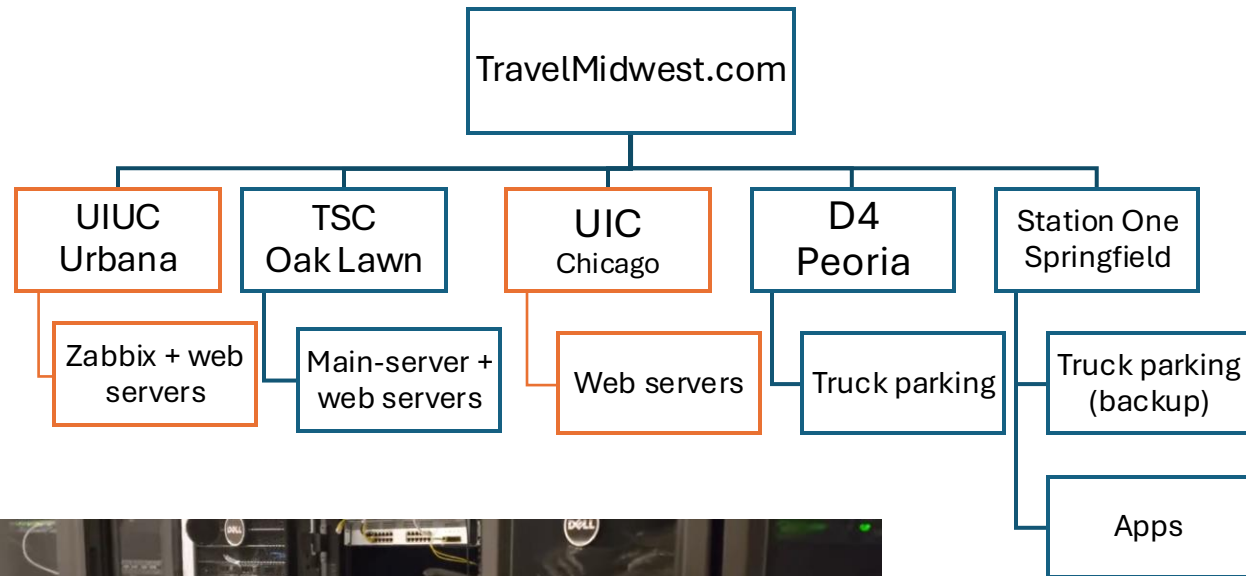
Modernization 2023



Coverage Area

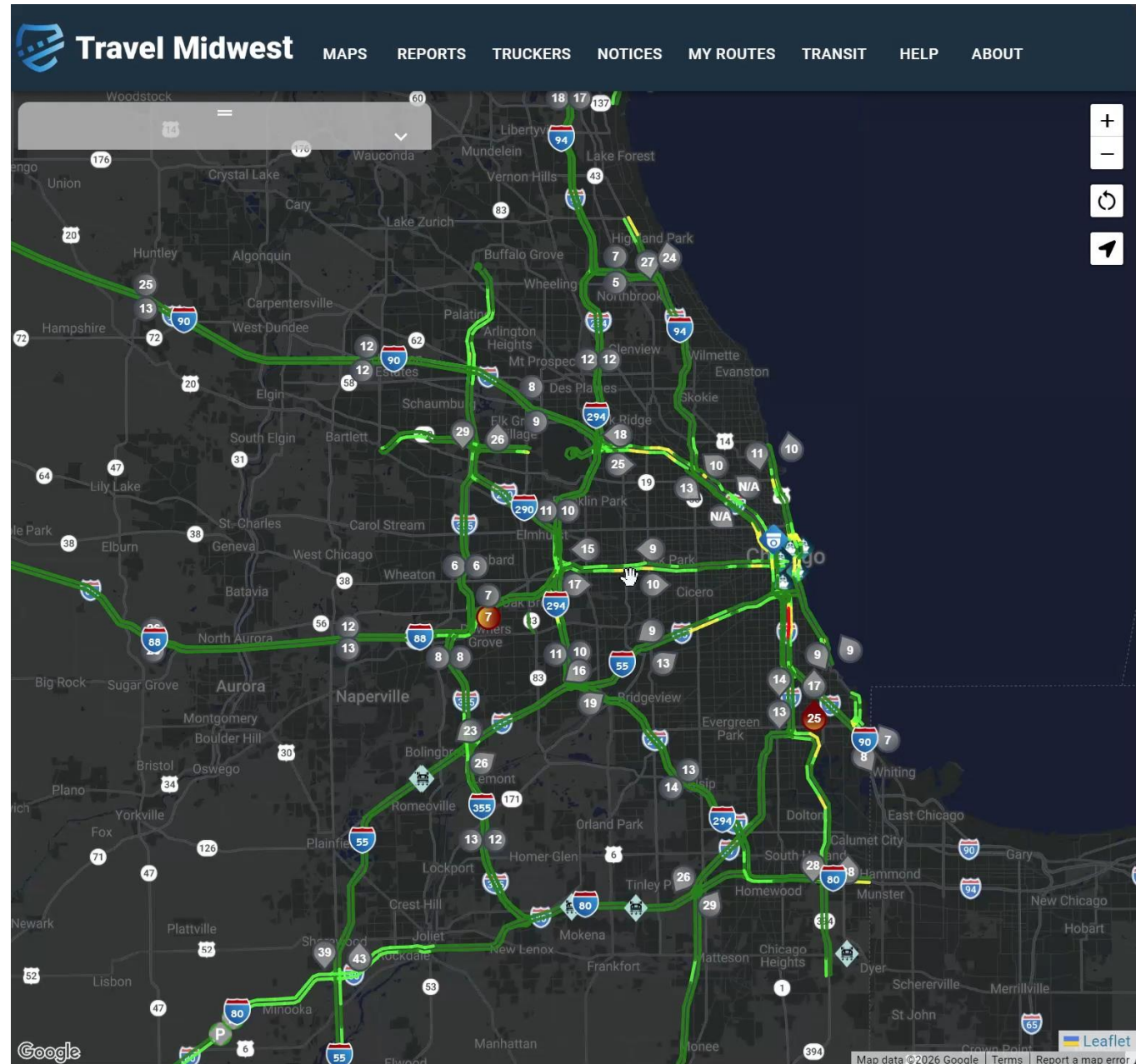


GTIS Data Centers

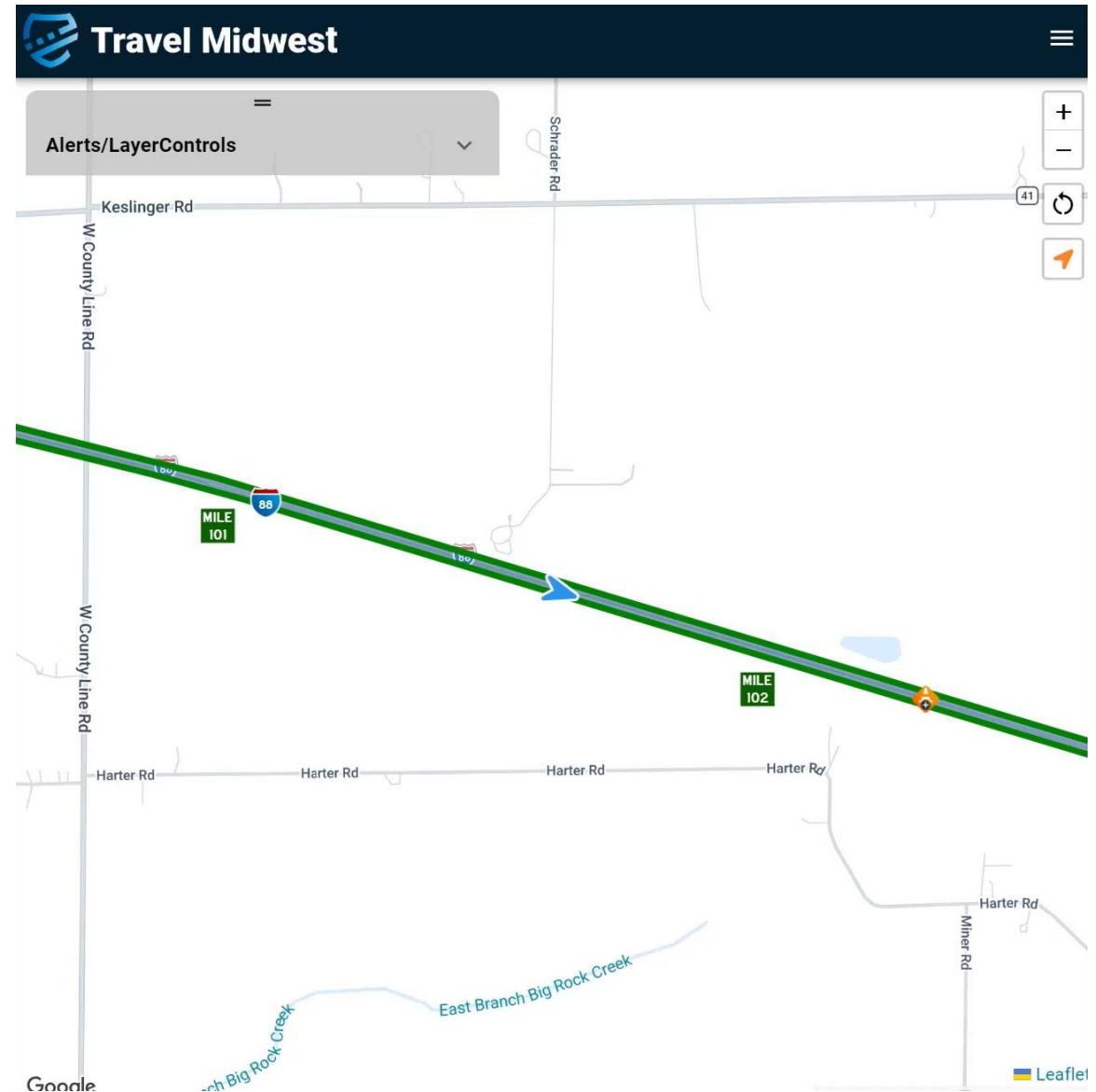


TravelMidwest.com

- Information is geocoded and displayed on the website map
- Click to see associated data
- Layers control what data is visible
- Sensible decluttering
- Customization is automatic
- Dark/light mode themes
- Mobile devices supported
- Follow me mode



Follow Me



TravelMidwest.com User Stats

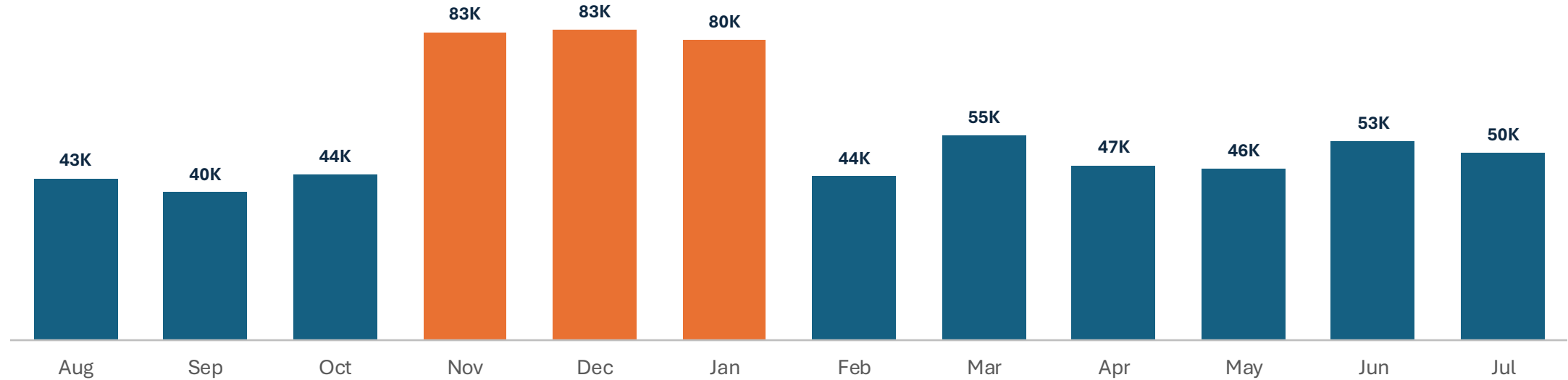
292,038
ACTIVE USERS

684,878
SESSIONS

2,426,148
PAGE VIEWS

4,840,492
EVENTS

Sessions by month — winter travel season drives ~2× the traffic



Aug 2025 – Jul 2026 · 58% mobile / 41% desktop · 94% engagement rate · Source: Google Analytics

Data Available

- General
 - 508 Travel times
 - 35,603 Congestion links
 - 32,772 Probe vehicle TMCs
- Trucking
 - 86 Rest areas
 - 149 Parking lots
 - 39 Weigh stations
- Weather **New!**
 - NWS warnings
 - Winter road conditions
- Events
 - Incidents
 - Construction
 - Special events
- Devices
 - 2,150 Cameras
 - 687 Dynamic message signs
 - 77 Roadway weather stations
- Transit **New!**
 - Alerts
 - 16K Stations
 - 17 Ferries

2.5 million views/day



Custom Routes

- Unlimited custom routes
- Plan A→B route then add waypoints
- Reports include
 - Travel time
 - Congested segments
 - Construction
 - Incidents
 - Weather alerts
 - Cameras

The screenshot displays the 'Travel Midwest' website interface. At the top, a dark navigation bar contains the site logo and links for MAPS, REPORTS, TRUCKERS, NOTICES, MY ROUTES, TRANSIT, HELP, and ABOUT. The main content area is split into two panels. The left panel, titled 'My Routes', includes a sub-header 'Route Options' and two input fields: 'A - Start Location' with a placeholder 'Enter start location' and 'B - Destination' with a placeholder 'Enter destination'. Below these are 'Customize' and 'Save Route' buttons. The right panel features a map of the Chicago area with various suburbs labeled, such as Mundelein, Lake Forest, Highland Park, and Evanston. The map includes a 'Map' tab and a 'Satellite' tab, and a search bar at the bottom left.

Travel time service



<https://travelmidwest.com/lmiga/travelTimeService.json?locations=NB+US-41+from+IL-22+to+Golf+Rd>

Using the Data

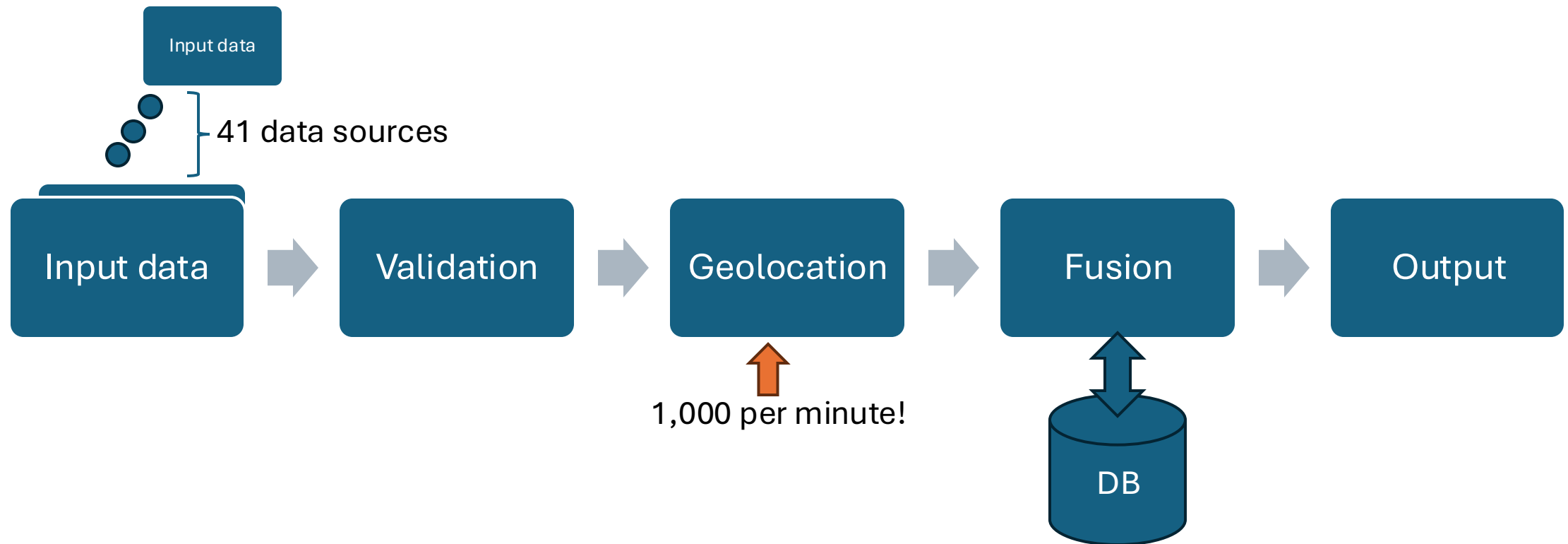
- Backend - GTIS API
 - Data ingestion
 - Data outputs
 - Reports
 - Maps
 - System admin
 - QA/Monitoring
- Frontend –
TravelMidwest.com

The resulting JSON output (reformatted for easier readability):



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{
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  "geometry": {
    "type": "MultiLineString",
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GTIS – Core Processing



Data Formats

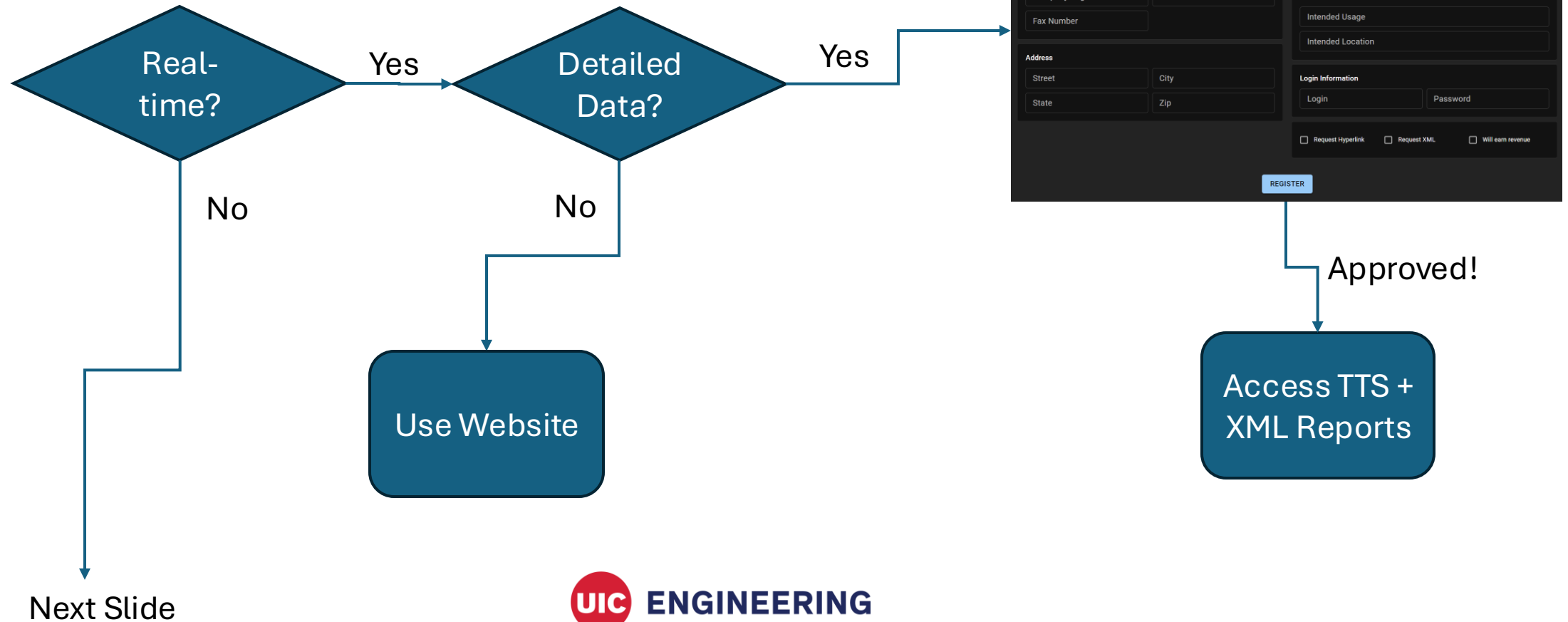
- We'll take whatever data format you have!
 - WZDx
 - GTIS XML
 - GeoJSON
 - ERSI
 - ArcGIS
 - CSV
 - Web page scraping
- We also output to many of these same formats

```
</geometrySectionLoc>
</linkElementElement>
</linkElement>
</link>
<linkID>IL-SKYWAY-001</linkID>
<linkDesc>EB:CHICAGO SKYWAY:DAN RYAN:STATE LINE:IL</linkDesc>
<!-- TODO: set the length in meters -->
<length>0</length>
<locationTimeStamp>0</locationTimeStamp>
<isBasic>>false</isBasic>
<!-- TODO: set the length in meters -->
<travelTime>0</travelTime>
<!-- TODO: set the length in meters -->
<volume>12</volume>
<!-- TODO: set the length in meters -->
<speed>15.5</speed>
<!-- TODO: set the length in meters -->
<occupancy>0</occupancy>
<!-- TODO: set the length in meters -->
UNKNOWN_CONGESTION
NON_CONGESTION -
LIGHT_CONGESTION
MEDIUM_CONGESTION
HEAVY_CONGESTION

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      41.7713006
    ]
  },
  "properties": {
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    "chgo": false,
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    "tt": "17 minutes",
    "avgTt": "<a href='https://www.travelmidweststats.c'>minutes</a>",
    "cng": "Light",
    "len": "10.5 miles",
    "spd": "36 mph",
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    "hereTt": "14 minutes",
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  }
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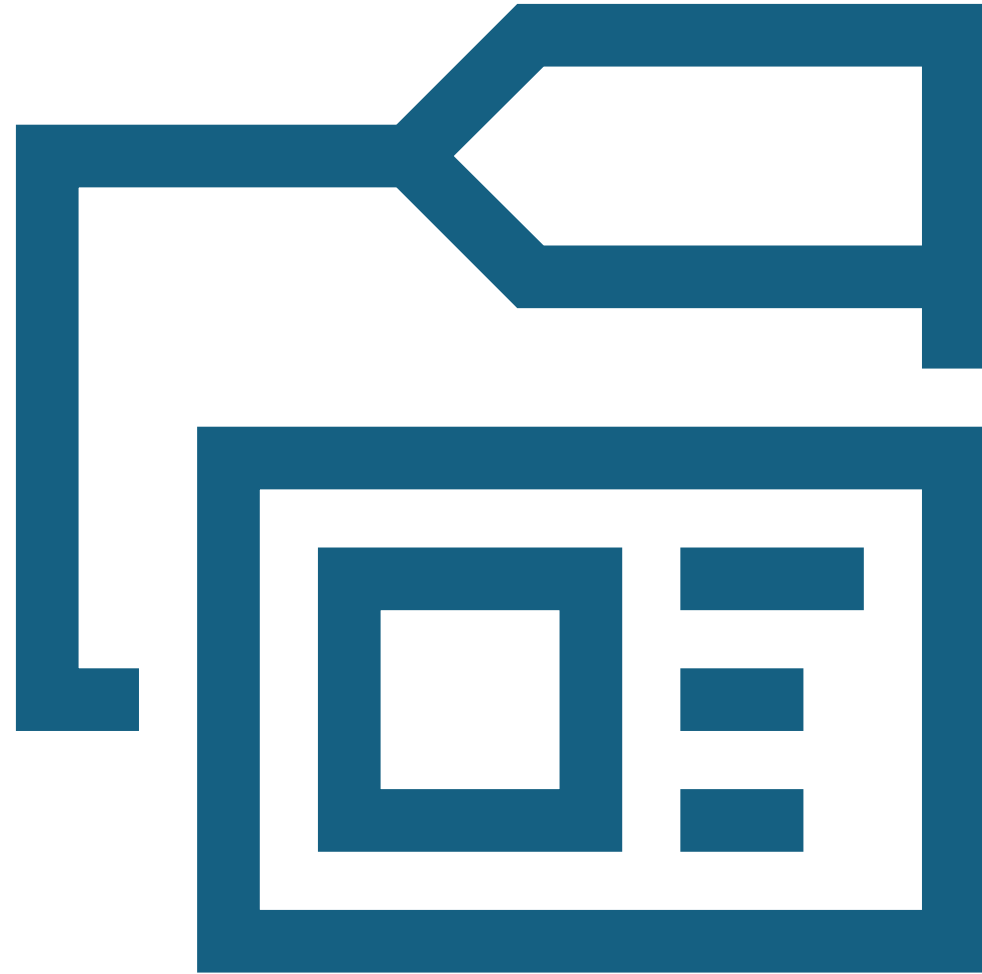
Using the Data for your Project

Two options

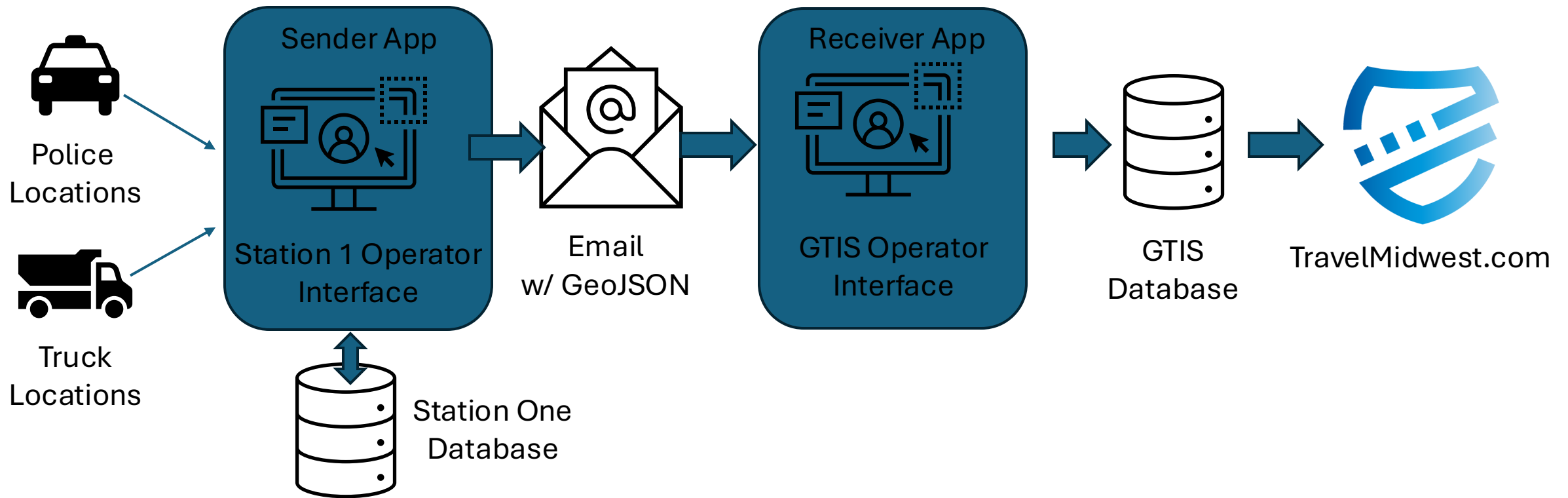


Archived Data

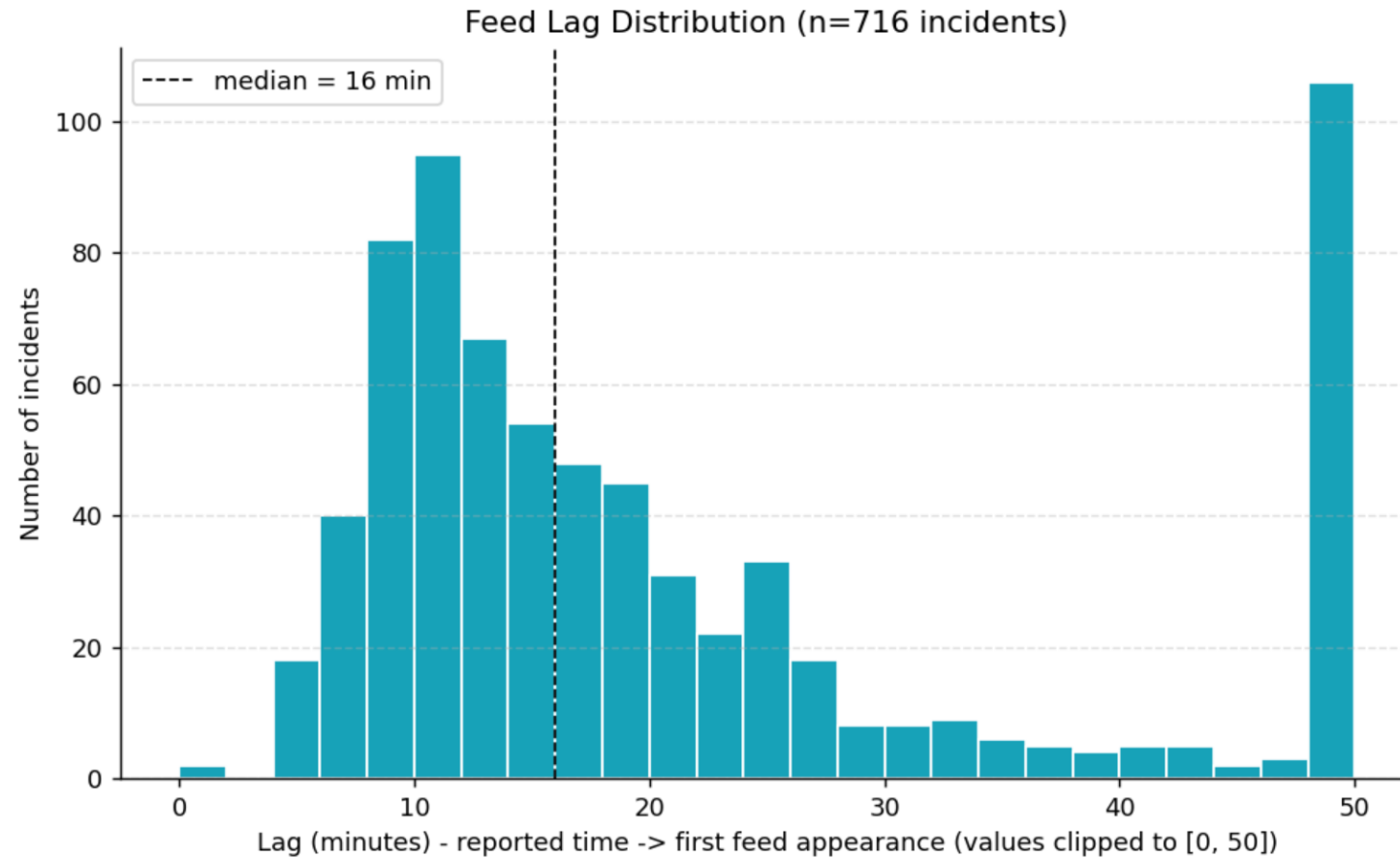
- Integrated with RITIS.org since 2018
- Archived XML outputs since 2004



Station One Incident Apps



Why an App is Needed



Station One Operator Interface

Informant Report Number

Agency Return Tel Number Report Status

Incident Type Timing: Date Time

Construction Zone Involved ☐ District Number Incident Occurred at:

County Incident reported to Sta. 1

Send Incident Report:

Nearest City or Town Updated by:

Save Record Print Report Undo Report

Report Processed by: Update Exit

Navigation:

Date	Location	Time	Incident

Record: 1 of 1 No Filter Search

New Station One Operator Interface

 IDOT incident entry

New incident

Unsaved

+ New incident

Find

Audit

dillenbu





† Drop OPER-2100 PDF or D8 RTF here to auto-fill (or click to choose)

District Record #

e.g. 2026-38

Informant

Type *

e.g. Vehicle Accident

Location

Location ?

District

County

Nearest town

Timeline

Times

Reported

mm/dd/yyyy --:-- --

Closed

mm/dd/yyyy --:-- --

Status

Initial

Auto-set to "Final" when closed time is filled; reverts to the prior status if you clear the closed time.

Construction zone

☐ In construction zone

Location map

0 layers on

Map

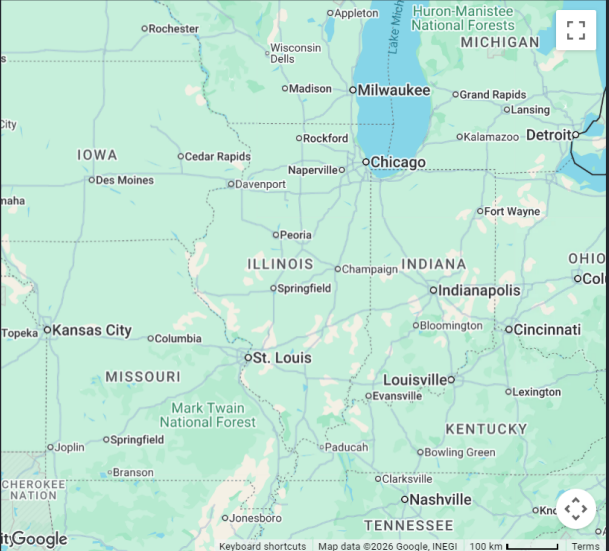
Satellite

☐ County boundaries

☐ District boundaries

☐ Mile markers

☐ ISP units



Incident updates

0 entries

Status	Date	Time	Narrative	By
No updates yet — click "Add update" to add the first one.				

+ Add update

Distribution lists

Recipients resolve at send time

+ Add list

No lists selected — add at least one before sending.

Save

Email preview

Print

<

>

Ingesting Oper2100 Form



Illinois Department
of Transportation

Incident Report

iPhone Email

Email

Print

Save

Reset Form

Informant

Station One

First Person on Scene

Type of Incident

Vehicle Accident

Injuries

Deaths

District

District 9

County

Jefferson

Police

ISP Troop 10 Du Quoin

Nearest Town

Mt. Vernon

Updated By

Report Processed By

D9 Comm Center

Action by IDOT

Date

5/6/26

Incident

5/6/26

Time

2244

Incident Reported to Station 1

5/6/26

2244

Incident Closed at

5/7/26

0115

Record Number

03-050626

Return Telephone Number

Police Report Number

AXX-26-00488

Currently on Scene

Media

EMS

Fire

Location

I64 WB 73.5 mm ramp to I57 NB

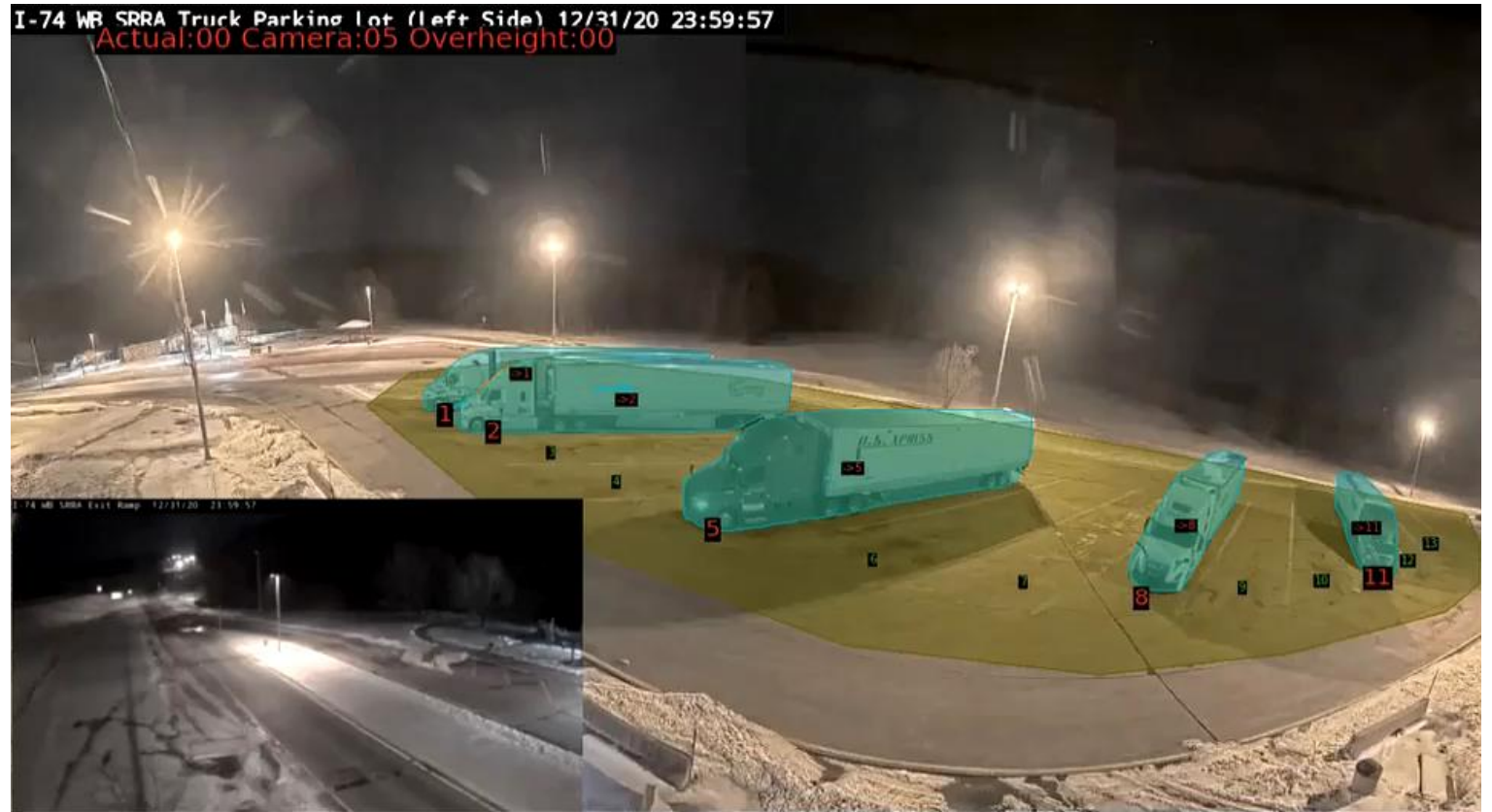
Status	Date	Time	Incident
Initial	5/6/26	2244	ISP advised Station One of a single vehicle tractor semitrailer accident on I64 WB 73.5 mm ramp to I57 NB at the north end of Mt. Vernon. ISP advised there is partial lane blockage with traffic getting by on the shoulder and part of a lane. No IDOT assistance requested at this time. ISP report number is AXX-26-00488.
Completion	5/7/26	0115	ISP advised Station One all lanes are now open and there was also light pole #96 has been damaged.

Comments

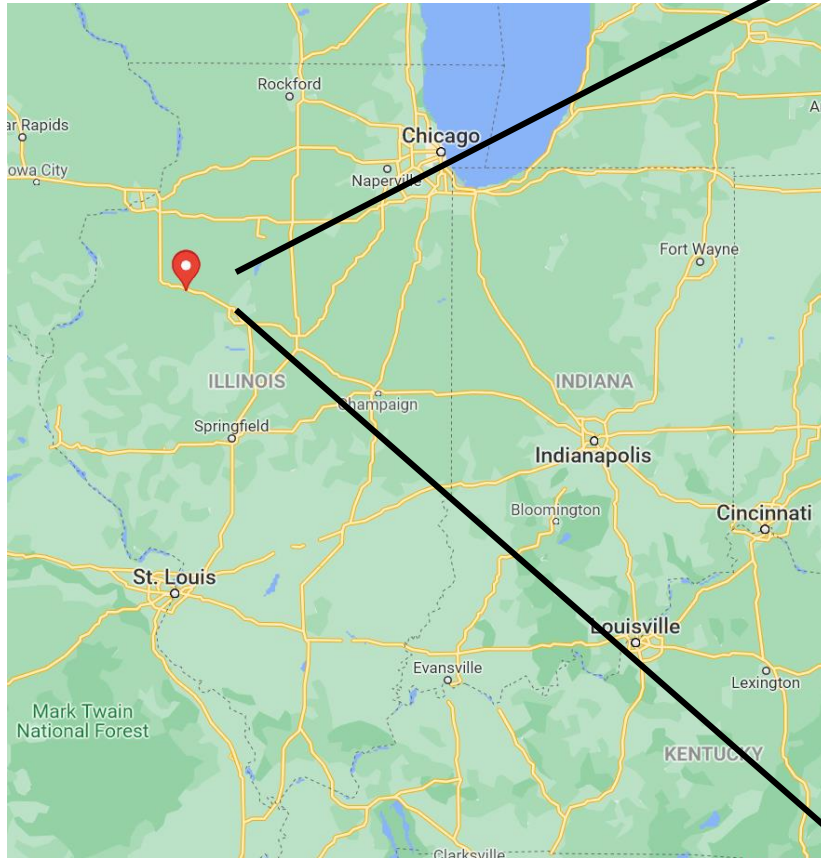
New Page

OPER 2100 (Rev. 01/22/26)

Truck Parking



Pilot Test Setup



Over-height Sensors

- Mounted 8 foot off ground
- Cars drive underneath
- Trucks activate
- Increase count on entrance activation, decrease on exit
- Lots of issues



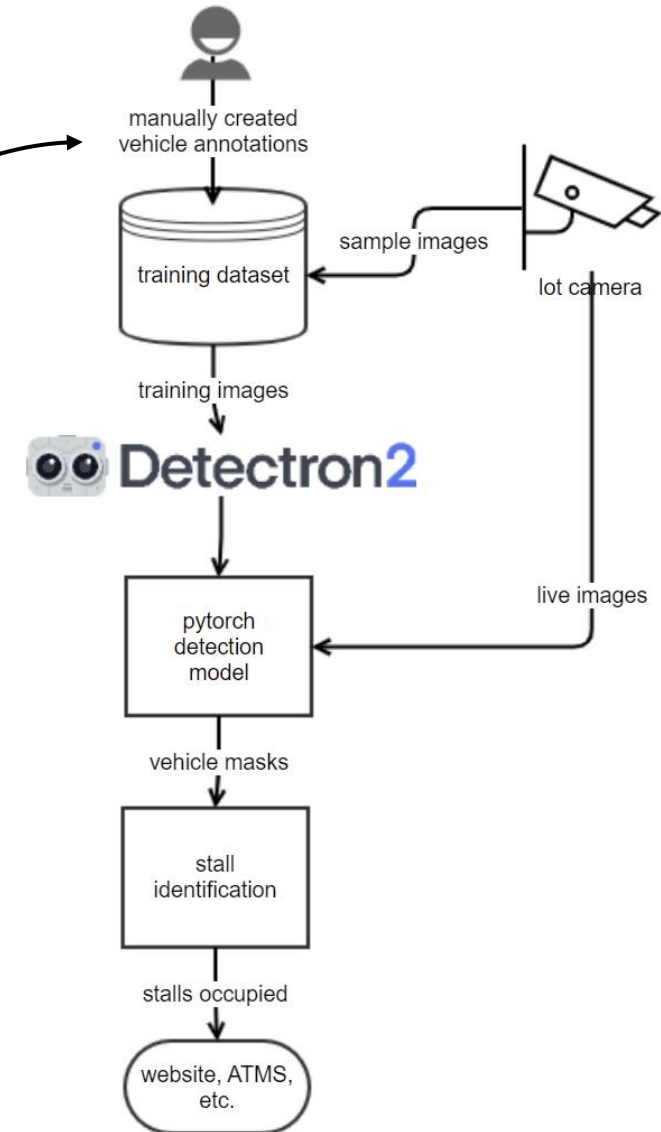
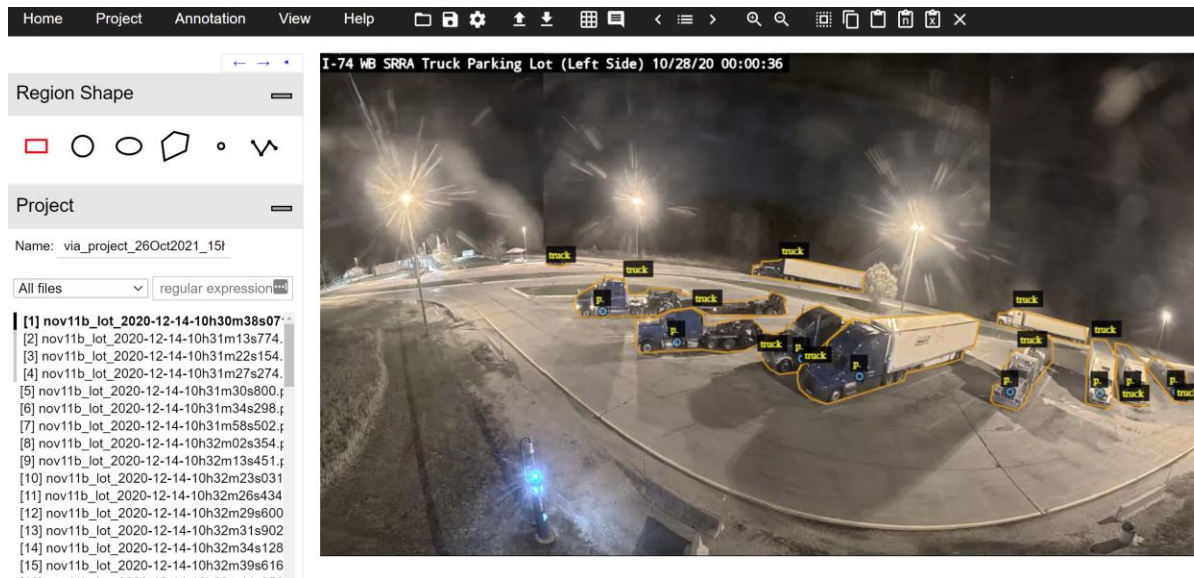
In-Pavement Radar Sensors

- Drill and epoxy into stalls
- One sensor per stall
- Some stalls w/ multiple sensors



Training Detectron2

- Google Colab Used (Free!)
- 1,293 images and 7,603 polygons
- Two students annotated images

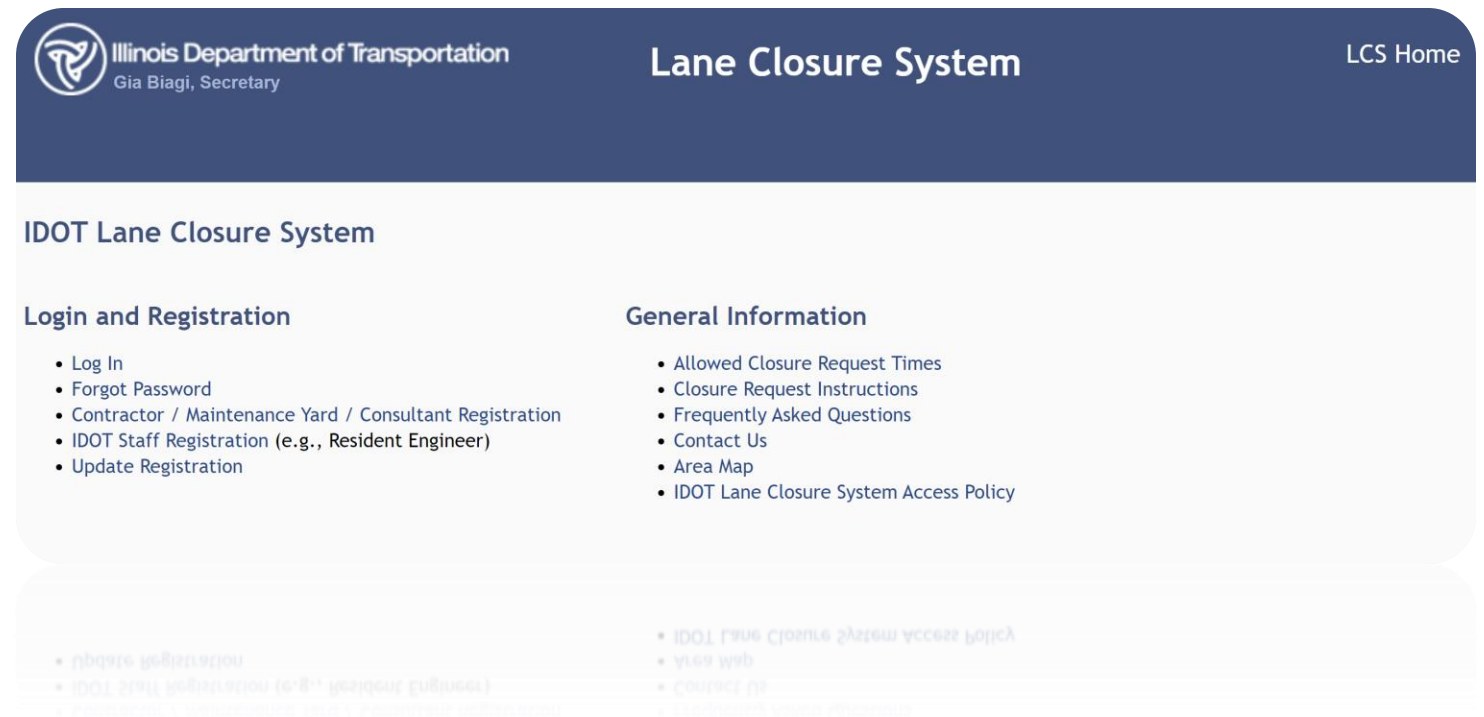


Overall Results

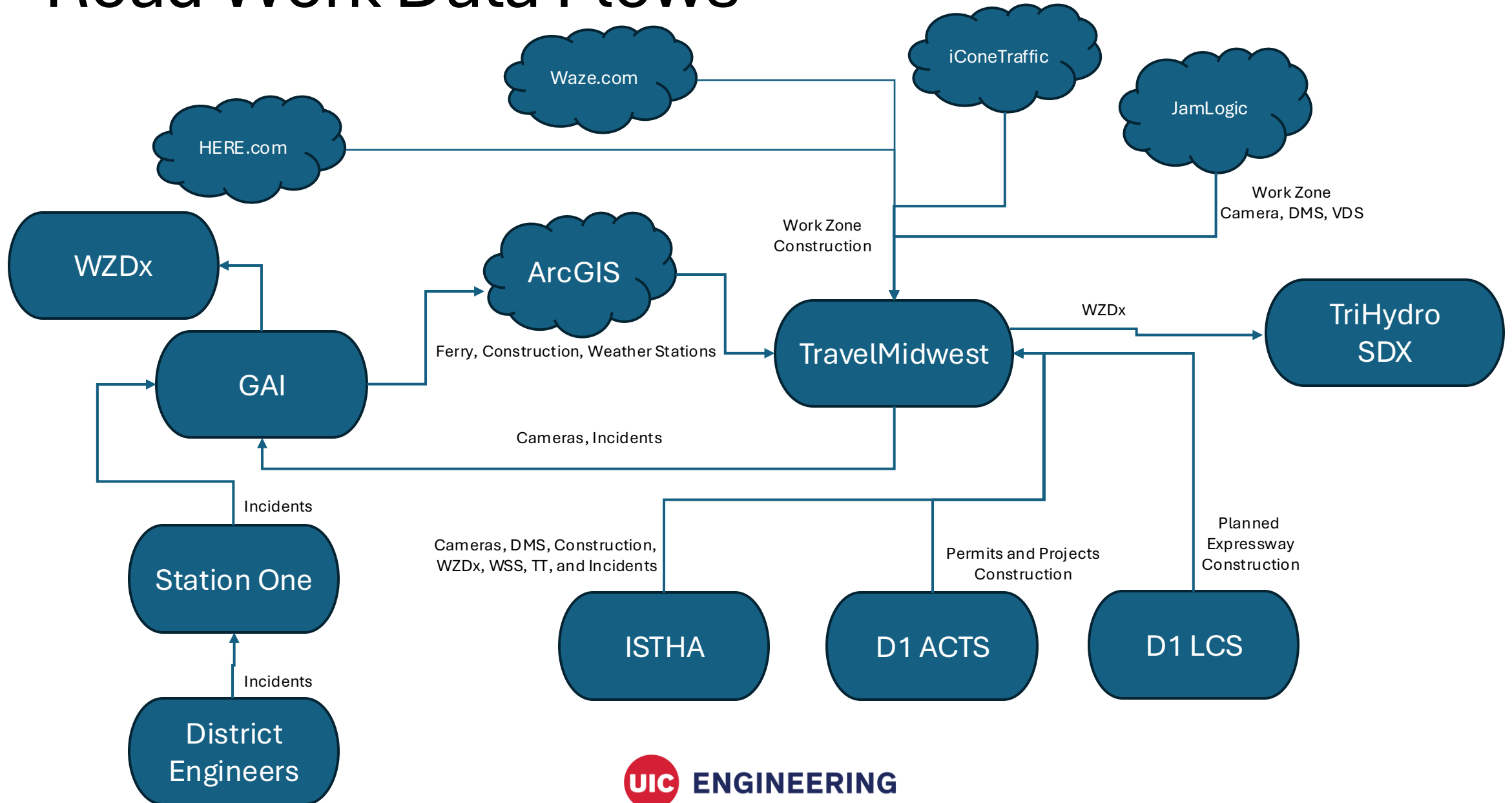
Sensor	Accuracy (R ²)	N (minutes)
Camera	96%	12,923
w/ heavy rain	75%	85
w/ heavy fog	89%	417
In-pavement	88%	5,760
Over-height	42%	1,440
w/o maintenance vehicles	97%	1,440

Lane Closure System (IdotLCS.com)

- Data Flows
- Features
- History
- Operation
- Registration
- Requests
- Approvals
- Reports



Road Work Data Flows

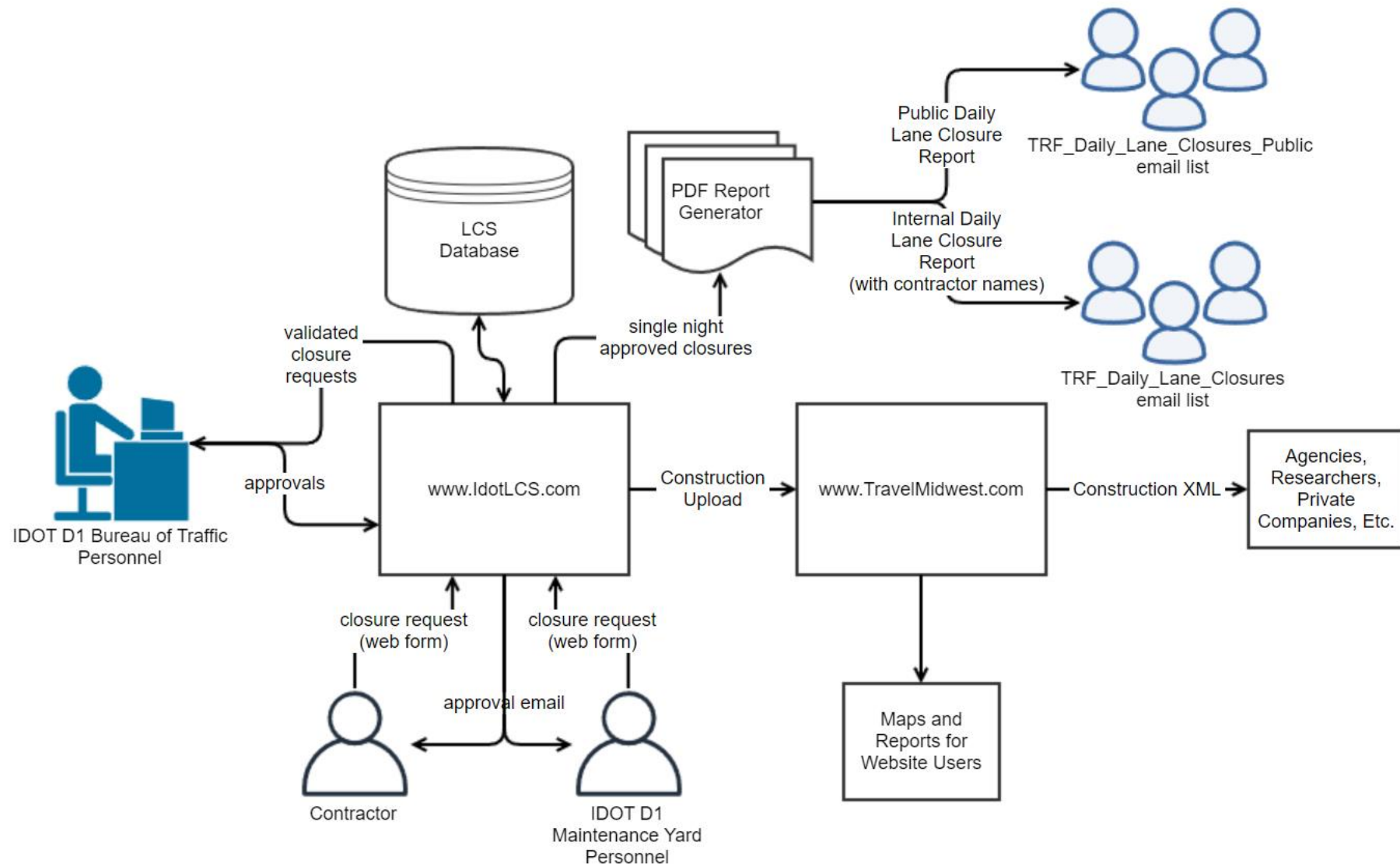


LCS Features

- Fully web based
- Contractors enter data, IDOT checks, approvals/denials auto-emailed
- Validation of data entered including allowed/disallowed hours by location, day of week, and lane closure count
- Fully geocoded locations
- PDF reports auto-emailed in two formats (internal and public)
- Conflict detection, resolution and overrides
- Access roles
- Weekends and holidays handled properly

Lane Closure System History

- Development started in 2011
- IDOT lead was Jean Totten
- UIC lead was Caleb Drake (retired)
- System began operation in July 2013
- It has successfully processed 224,665 closure requests



Contractor Registration

Contractor Information			
Contractor Name*		Street Address*	
Contractor Type*	-- Select --	City*	
Telephone*		State*	
Fax		Zip*	
		Traffic Control	☐

Primary Contact	
Name*	
Job Title*	
Email*	
Confirm Email*	
Password*	
Confirm Password*	
Office Telephone*	
Field Office Address	
Mobile Telephone*	
City	
Field Office Telephone	
State	
Home Telephone	
Zip	

Add Contact

Submit Registration

Closure Request

Closure Information	
Contractor*	-- Select --
	☒ Mainline ☐ Ramp
Location*	On -- Select -- From -- Select -- +0.0 miles
	To -- Select -- +0.0 miles
	Set Location
Lanes*	Unknown Lanes (no location set)
Date/Time*	Date ☐ Fri 2/20 - Sat 2/21 ☐ Sat 2/21 - Sun 2/22 ☐ Sun 2/22 - Mon 2/23
	Start Time -- Select -- PM End Time -- Select -- AM
Reference*	Type -- Select -- Number
Traffic Control*	-- Select --
Moving Operation	☐ Partial Ramp Closures ☐
Trooper Assist	☐
Intermittent Full Stops	☐
Special Instructions (including detours)	
Notes	
☐ Override Validations	
Submit Closure Request	

Closure Approval

SB Stevenson / I-55										
ID	Location	Time	Lane Impact	Contractor	Traffic Control	Moving Operation	Special Instructions	Conflicts	Approved	Merge
28	Lake Shore Dr (US-41) to Dan Ryan Expy (I-90/94)	2/20/2015 9:00 AM to 2/20/2015 2:00 PM	Left lane closed with partial ramp closures	Meade (Maintenance)	Meade (Maintenance)	✓			☒	☐
29	Lake Shore Dr (US-41) to Dan Ryan Expy (I-90/94)	2/20/2015 9:00 AM to 2/20/2015 2:00 PM	Right lane closed with partial ramp closures	Meade (Maintenance)	Meade (Maintenance)	✓			☒	☐
30	Lake Shore Dr (US-41) to County Line Rd	2/20/2015 9:00 AM to 2/20/2015 3:00 PM	Both shoulders closed with partial ramp closures	Meade (Maintenance)	Meade (Maintenance)	✓			☒	☐
31	Dan Ryan Expy (I-90/94) to County Line Rd	2/20/2015 9:00 AM to 2/20/2015 1:00 PM	Left lane closed with partial ramp closures	Meade (Maintenance)	Meade (Maintenance)	✓			☒	☐
32	Dan Ryan Expy (I-90/94) to County Line Rd	2/20/2015 9:00 AM to 2/20/2015 1:00 PM	Right lane closed with partial ramp closures	Meade (Maintenance)	Meade (Maintenance)	✓			☒	☐
33	County Line Rd to Weber Rd	2/20/2015 9:00 AM to 2/20/2015 1:00 PM	Left lane closed with partial ramp closures	Meade (Maintenance)	Meade (Maintenance)	✓			☒	☐
34	County Line Rd to Weber Rd	2/20/2015 9:00 AM to 2/20/2015 1:00 PM	Right lane closed with partial ramp closures	Meade (Maintenance)	Meade (Maintenance)	✓			☒	☐
35	County Line Rd to Reed Rd	2/20/2015 9:00 AM to 2/20/2015 3:00 PM	Both shoulders closed with partial ramp closures	Meade (Maintenance)	Meade (Maintenance)	✓			☒	☐
36	Weber Rd to I-80	2/20/2015 10:00 AM to 2/20/2015 2:00 PM	Left lane closed with partial ramp closures	Meade (Maintenance)	Meade (Maintenance)	✓			☒	☐
37	Weber Rd to I-80	2/20/2015 10:00 AM to 2/20/2015 2:00 PM	Right lane closed with partial ramp closures	Meade (Maintenance)	Meade (Maintenance)	✓			☒	☐
38	I-80 to Lorenzo Rd	2/20/2015 8:30 AM to 2/20/2015 1:30 PM	Left lane closed with partial ramp closures	Meade (Maintenance)	Meade (Maintenance)	✓			☒	☐
39	I-80 to Lorenzo Rd	2/20/2015 8:30 AM to 2/20/2015 1:30 PM	Right lane closed with partial ramp closures	Meade (Maintenance)	Meade (Maintenance)	✓			☒	☐

Merge Selected Closures

Show Map of Approved Closures

Approve Closures

Preview Closure Report

Publish Approved Closures

Lane Closure Report



Illinois Department of Transportation

Lane Closure Report For Thursday 2/19/2015

Temporary Closures For Thursday 2/19/2015

NB Edens

	Location	Lane Impact		Time	Moving	Special Instructions	Contractor	Traffic Control
1	Kennedy Junction to Park Ave West	LS	RS ½	Thu 9:00 AM to Thu 3:00 PM	Yes		Meade (Maintenance)	Meade (Maintenance)

SB Edens

	Location	Lane Impact		Time	Moving	Special Instructions	Contractor	Traffic Control
2	Park Ave West to Kennedy Junction	LS	RS ½	Thu 9:00 AM to Thu 3:00 PM	Yes		Meade (Maintenance)	Meade (Maintenance)

EB Kennedy Local

	Location	Lane Impact		Time	Moving	Special Instructions	Contractor	Traffic Control
3	0.5 miles east of East River Rd to Montrose Ave	LS 1	½	Thu 11:00 AM to Thu 2:00 PM	Yes		Meade (Maintenance)	Meade (Maintenance)
4	0.5 miles east of East River Rd to Montrose Ave	5	RS ½	Thu 11:00 AM to Thu 2:00 PM	Yes		Meade (Maintenance)	Meade (Maintenance)
5	Entrance from Cumberland Ave	Partial Closure		Thu 9:00 AM to Thu 3:00 PM	No		Lorig Construction Company	Lorig Construction Company
6	Montrose Ave to Ohio Feeder	LS 1	½	Thu 10:00 AM to Thu 1:00 PM	Yes		Meade (Maintenance)	Meade (Maintenance)
7	Montrose Ave to Ohio Feeder	5	RS ½	Thu 10:00 AM to Thu 1:00 PM	Yes		Meade (Maintenance)	Meade (Maintenance)
8	Ohio Feeder to Eisenhower Expy (I-290)	LS 1	½	Thu 10:30 AM to Thu 2:00 PM	Yes		Meade (Maintenance)	Meade (Maintenance)
9	Ohio Feeder to Eisenhower Expy (I-290)	5	RS ½	Thu 10:30 AM to Thu 2:00 PM	Yes		Meade (Maintenance)	Meade (Maintenance)

All temporary closures are subject to weather conditions.

Page 1 of 14

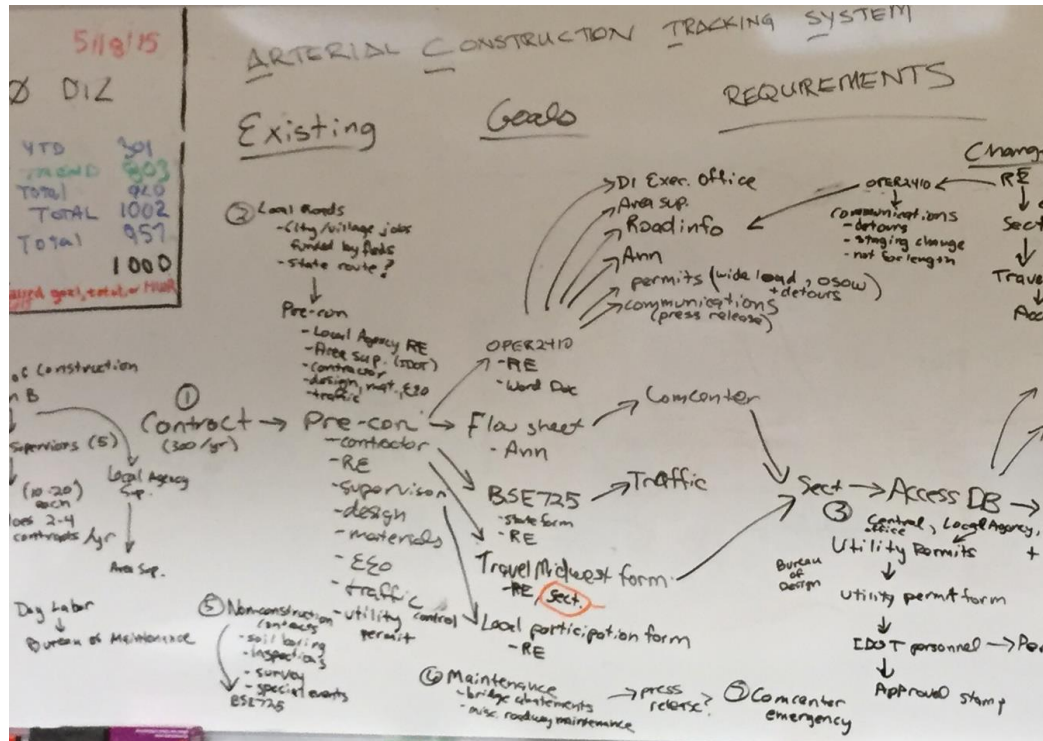
LCS Data Validation

1. Closure Request Data Entry (Client Browser)
 - a) Drop down selections
 - b) Few free form text entry fields
2. System / Database (Server Endpoint)
 - a) Authorization
 - b) From / To Crossing Order
3. D1 Engineer
 - a) Closure Approval
 - b) Conflict Resolution (Merge, Reject)
4. Data Transmission (GTIS Endpoint)
 - a) Authorization
 - b) Location Resolution

ACTS Features

- Fully web based, encrypted, password protected
- One-stop shop for closure data
 - Projects (Contracts)
 - Maintenance
 - Permits
- Forms generated
 - BSPE 725
 - OPER 2410
 - Flow Sheet
 - Travel Midwest
 - Local Participation
- Auto-uploaded to TravelMidwest.com
- Strict access controls

The screenshot displays the 'Project Information' form in the ACTS system. The form is organized into several sections with labels on the left and input fields on the right. At the top, it shows 'Entered' and 'Updated' timestamps and user names. Below this, there are dropdown menus for 'Resident Engineer' (Francisco Abreu), 'Area Const. Supervisor' (Chris Haydel), 'Contractor' (Benchmark Construction Co., Inc), and 'Contract Manager' (Ron Burton). Text input fields include 'Contract Number' (62H38), 'Section' (2019-109-RS,SW&T), 'Job Number' (C91-242-19), 'Contract Value' (\$5,718,000.00), 'Project Number' (STP-SVKQ(134)), and 'Description' (Retaining Walls, Storm Sewer, ADA Ramps, Roadway Reconstruction and Design Overlay). There are also dropdowns for 'Work Type (BSPE 725)' (Construction), 'Type Of Construction (OPER 2410)' (Road Closed), 'Status' (Revised), and 'Springfield Constr. Type (Travel Midwest)' (Road Closed). Checkboxes for 'Permanent', 'Emergency', and 'Percent Complete' are present. Date and time fields include 'Start Date' (5/31/2022), 'End Date' (12/2/2022), 'Work Hours Start' (7:00 am), and 'Work Hours End' (7:00 pm). The 'Location(s)' section at the bottom has checkboxes for counties (Cook, Lake, McHenry, DuPage, Kane, Will, Kendall), a text field for 'Municipalities' (City of Des Plaines), and radio buttons for 'Location Type' (Mainline, Ramp). A 'Remove Location' button is also visible. At the very bottom, there are fields for 'On Road Name' (NWR/SEF), 'Turn' (Northwest), 'Time' (Hour), 'Numbered Route' (IIS-14), and 'Numbered Route' (IIS-14).



- Two phases of development
 - Construction
 - Maintenance & Permits
- Stakeholders
 - Bureau of Construction
 - Bureau of Information Processing
 - Bureau of Maintenance
 - Bureau of Design
 - Bureau of Traffic Operations
 - ITS Office
 - University of Illinois at Chicago Department of Computer Science

ACTS System Design

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(847)705-4213



5.0 Adjournment

Next meeting: November 5, 2026

Transportation Technology and Operations Coalition

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Aaron Brown

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@cmapillinois |    

