



Houston Safe Railroad Corridors

2025

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Texas Leads the Nation in Grade Crossing Collisions

Texas Top 5 – Most Likely for a Crash

Ranking	Location	City
1	CR 1250	Midland
2	South Cravens Road	Missouri City
3.	Scott Street	Houston
4	CR 1160	Midland
5.	Wright Avenue	Jersey Village

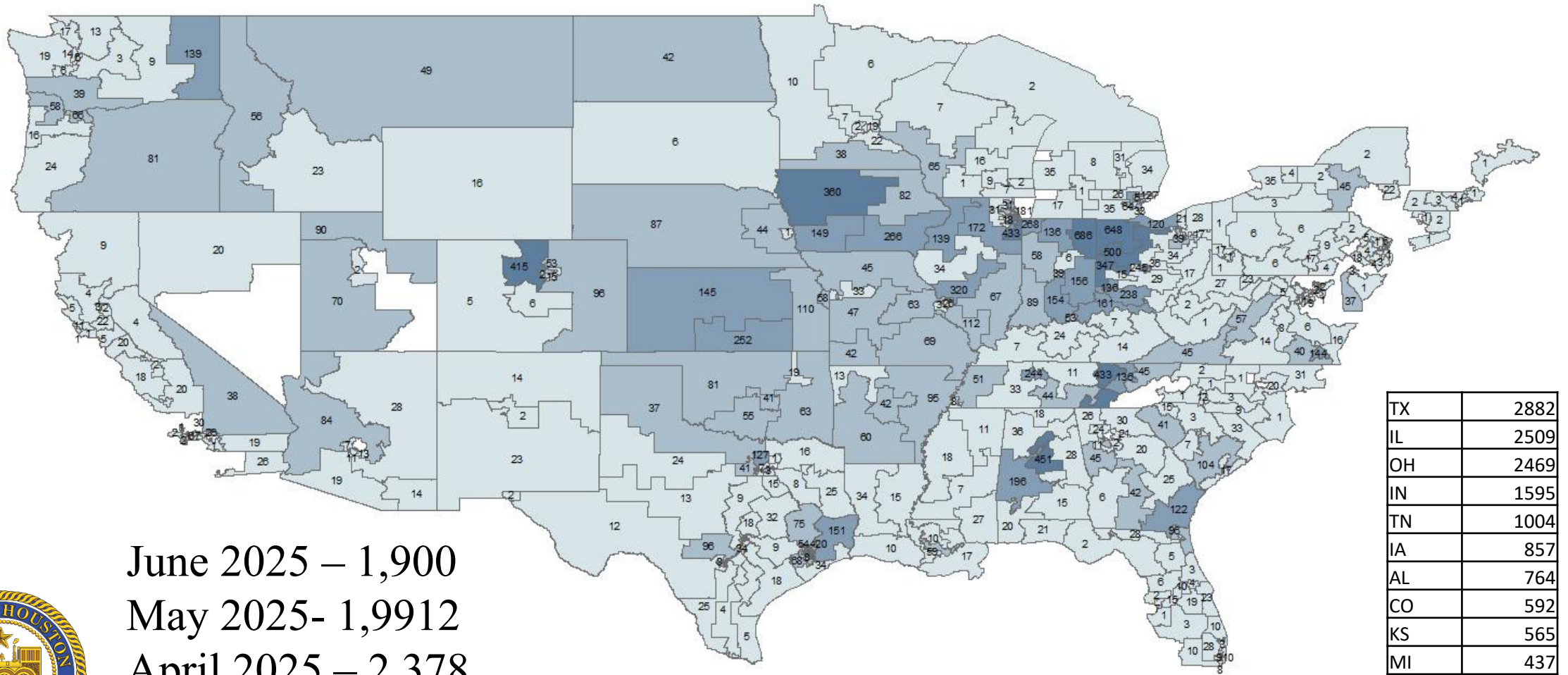
Houston Top 5 –Most Likely for a Crash

Ranking	Location
1	Scott Street
2	Hillcroft Avenue
3.	Sheldon Road
4	Market Street
5.	Sherwin Street



*Federal Railroad Crash Prediction Data Base

Houston Leads the Nation in Stopped Train Events



June 2025 – 1,900
May 2025- 1,9912
April 2025 – 2,378
March 2025 – 2,486





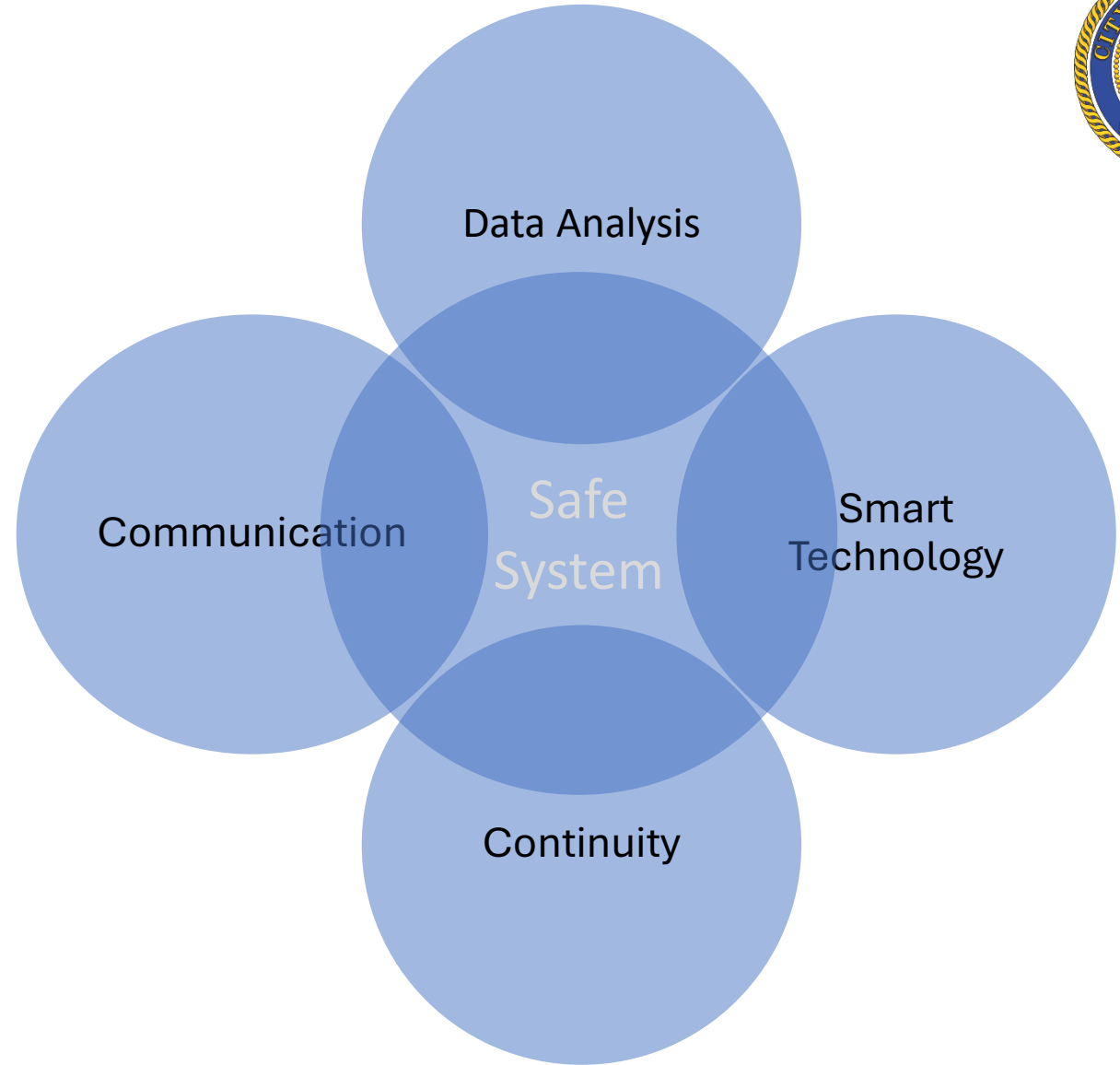
HFD Averages 100 Delays by Train a Month

	January 2025	February 2025	March 2025	April 2025	May 2025	June 2025
Total Events	101	86	127	142	113	94
Stopped Train	66	54	73	86	62	54
Total Slow Train	35	30	54	51	47	36
Other	0	2	0	5	4	4
Total Impacts to EED	21	18	12	24	17	11
% impact to EED	21%	21%	9.45%	16.90%	15.04%	11.70%



Public Safety Strategy

Use a safe system methodology to conduct discovery and data collection on needs, events, concerns related to unsafe behavior and mobility impacts along Houston Freight Rail Corridors





Communication & Collaboration

- Rail Corridor Collaborative – Houston Emergency Services, HPW, and the four local railroads
- Rail Safety Focus Group – Senator Alvarado Initiative
- Rail Safety Task Force – East Houston Communities
- Houston Area Railroad Transformation – under the GCRD

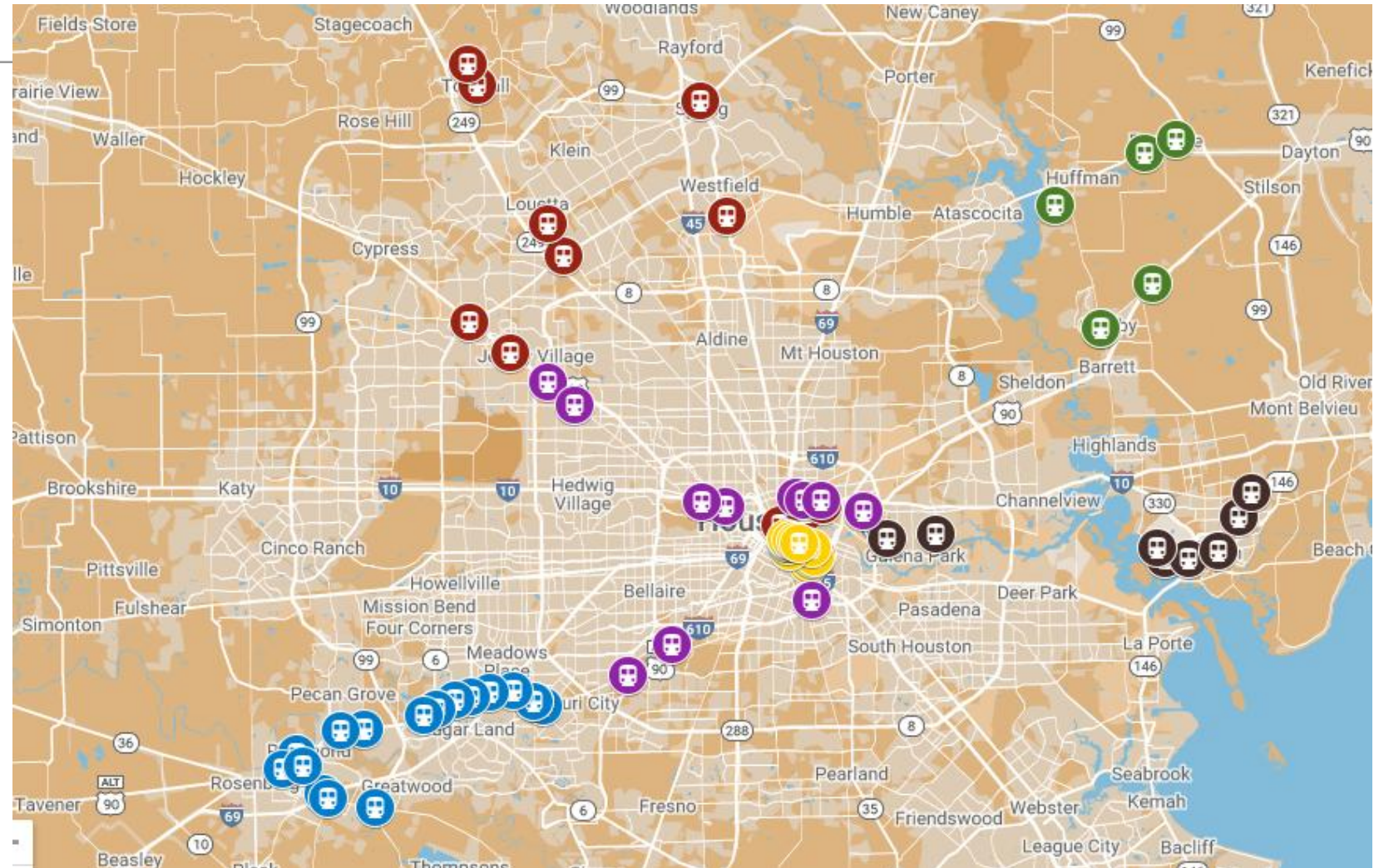


<u>Short Term</u>	<u>Mid Term</u>	<u>Long Term</u>
Crossing Prioritization List	Monitoring/Alerting Technology	Infrastructure Improvements
School Proximity List	Pedestrian Access	Legislation
Railroad Operating Practices	Funding	
Communication		
Signage (Wayfinding)		
Public Awareness Campaign		
Crossing Guards		

Regional Critical Crossings



- Delay First Responders
- Delay Vehicle, Pedestrian, & Bicycle
- Affect Essential Services
- ✓ 107 – Crossings Regionally
- ✓ 69 – Crossings in Houston
- ✓ Focus on Houston top 35



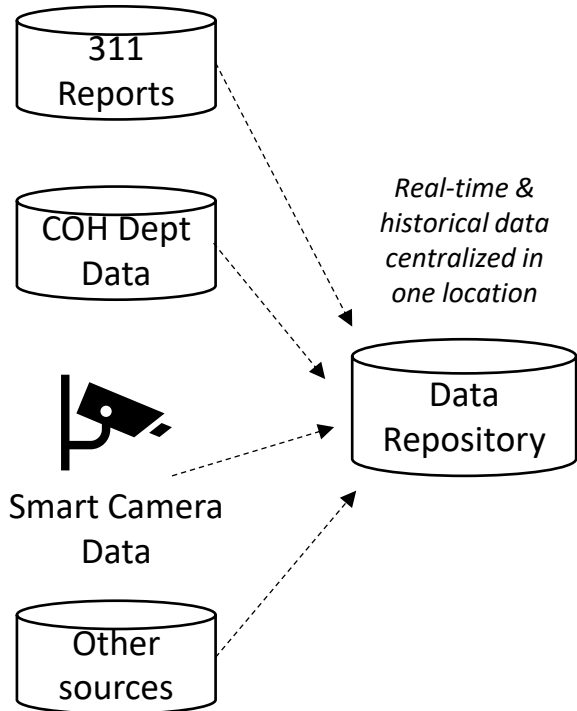


Create a Method to Centralize Blocked Crossing Data

Improved data collection enables better outcomes

Data Flow (Future-State):

Data Sources (inputs)



Data Sources



Uses

Houston Transtar

- Wayfinding Apps
- Real-time Display Boards

Federal Railroad Administration

- Policy & Regulations

Railroad Companies

- Policy & Operational Support

GHC 911

- Emergency Computer-Aided Dispatch (CAD)



We need you!

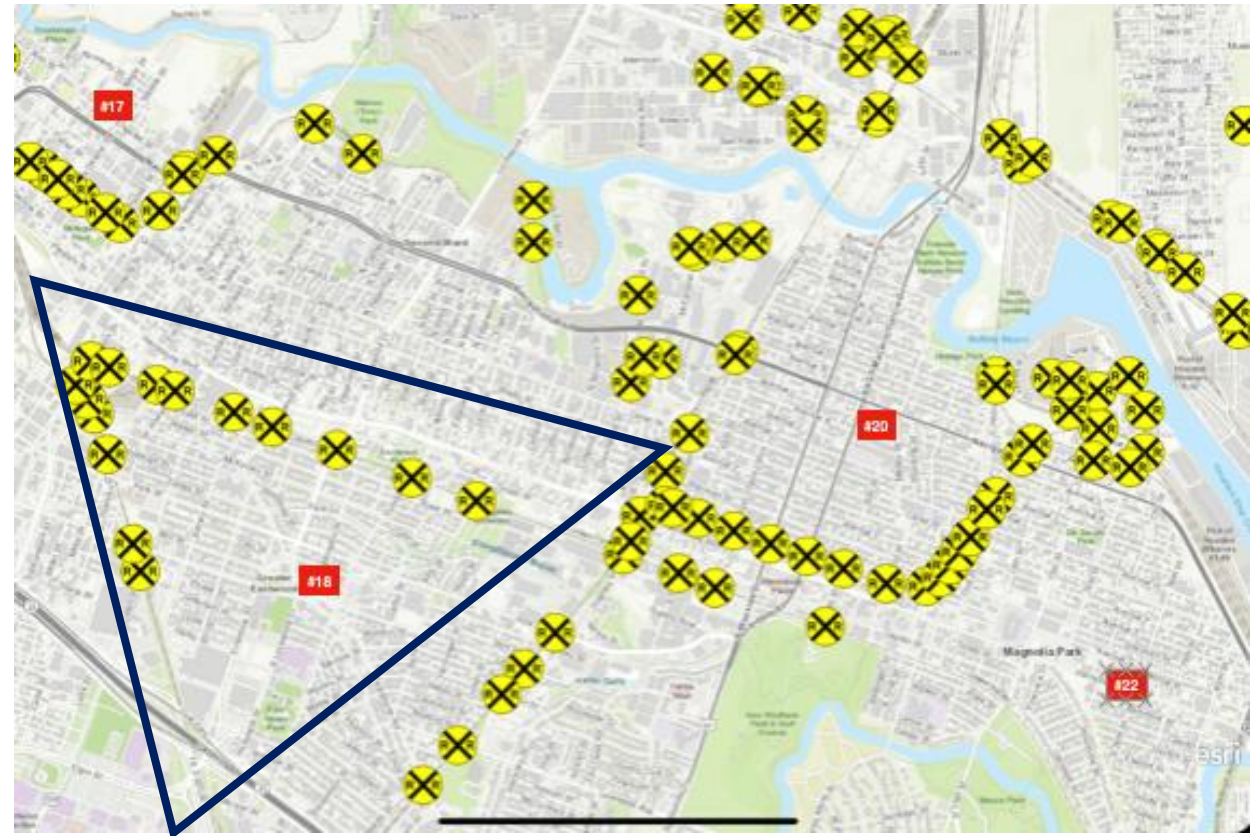
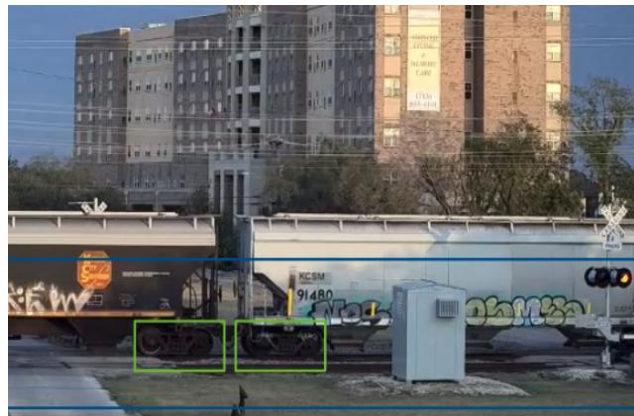
If you encounter a blocked train crossing:

1. **Call 311** – the City will document the crossing violation and provide a link to FRA's web portal
2. Go online and report the issue via the **FRA Blocked Crossing Portal**
www.fra.dot.gov/blockedcrossings

Test Technology to Collect “good data”

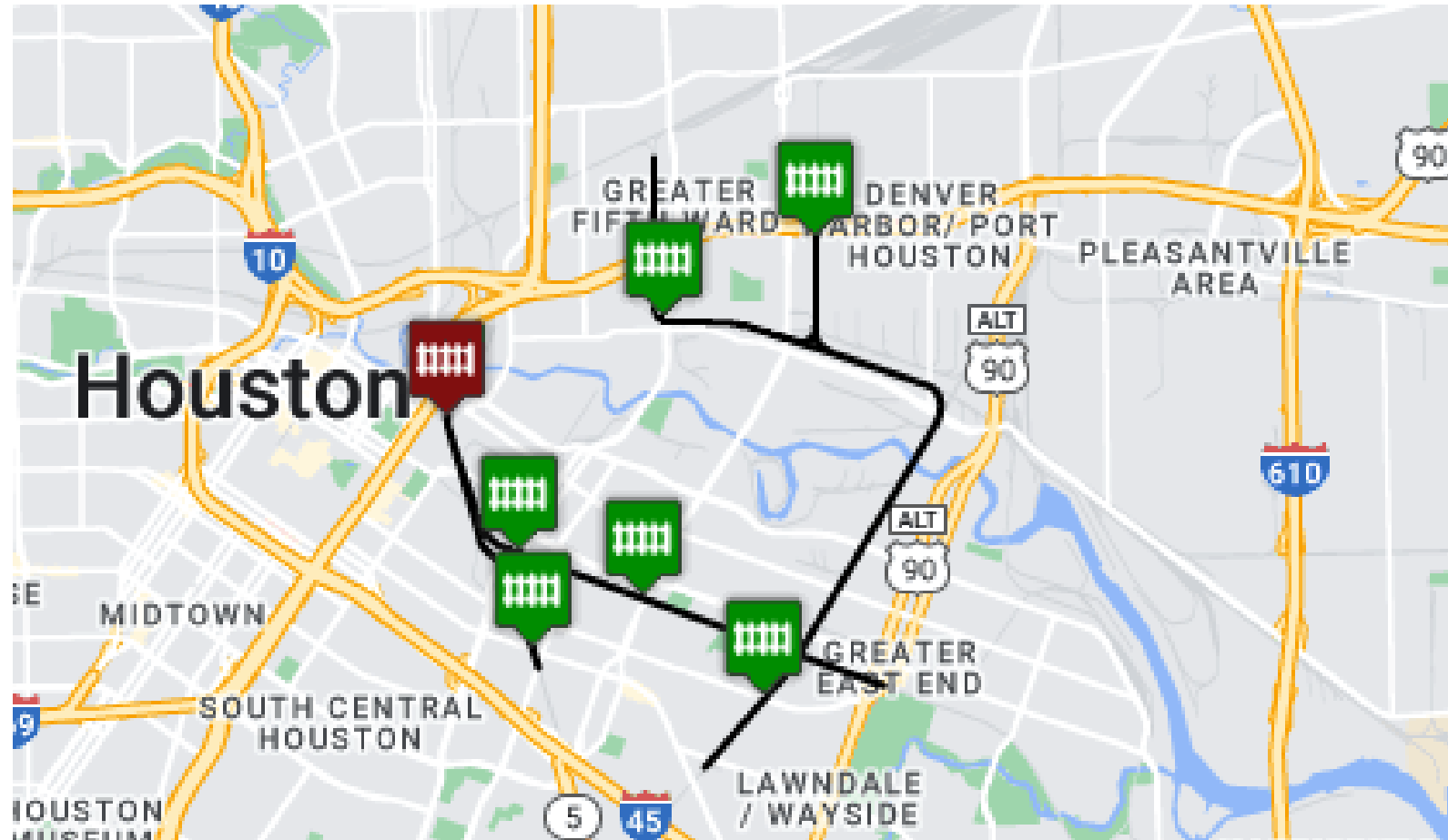


- Deploy Crossing Sensors and Cameras
- Give Access to HFD
- Connect to Transtar for Public Consumption
 - ✓ East End Train Triangle
 - ✓ Fifth Ward Railroad Rectangle
 - ✓ South Park Junction

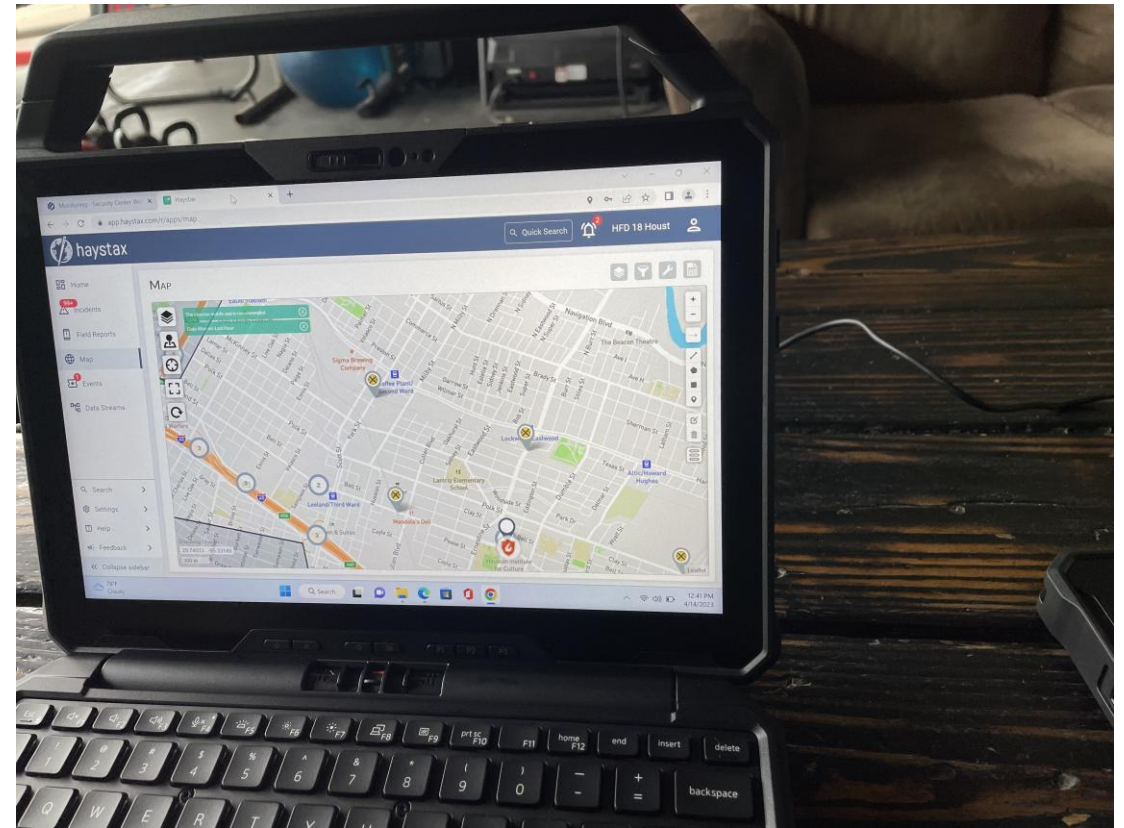
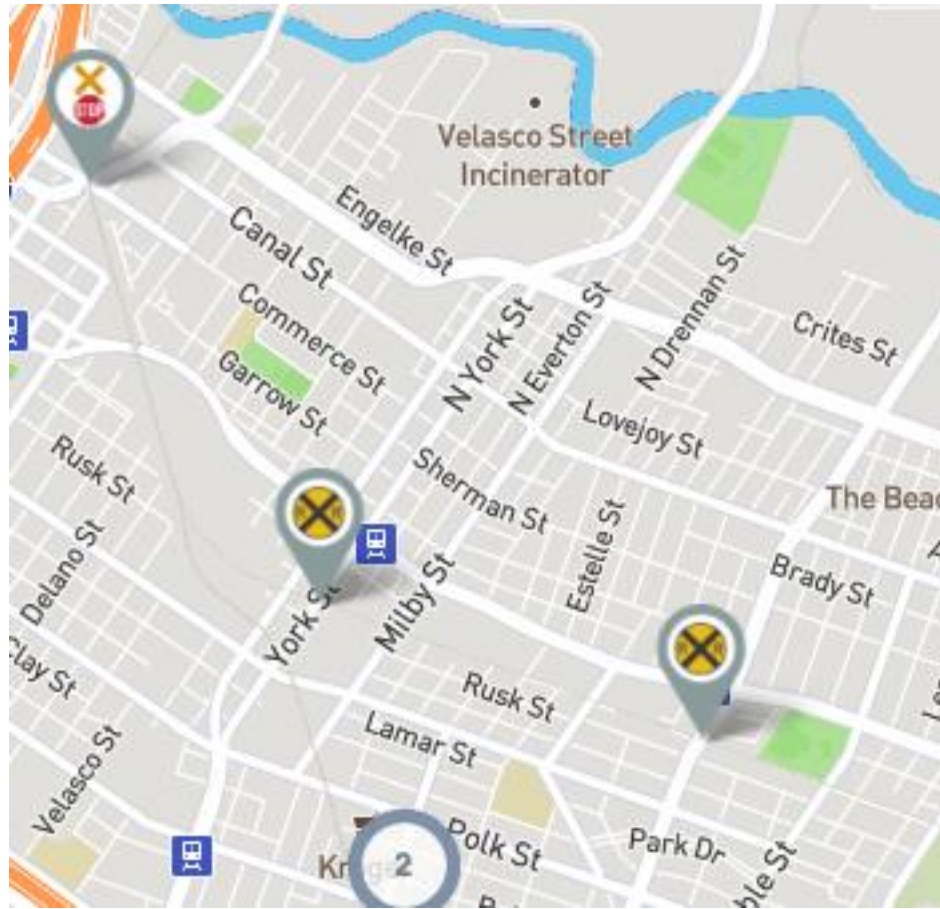




Crossing Sensor Detects



Map it and Display to HFD Vehicles

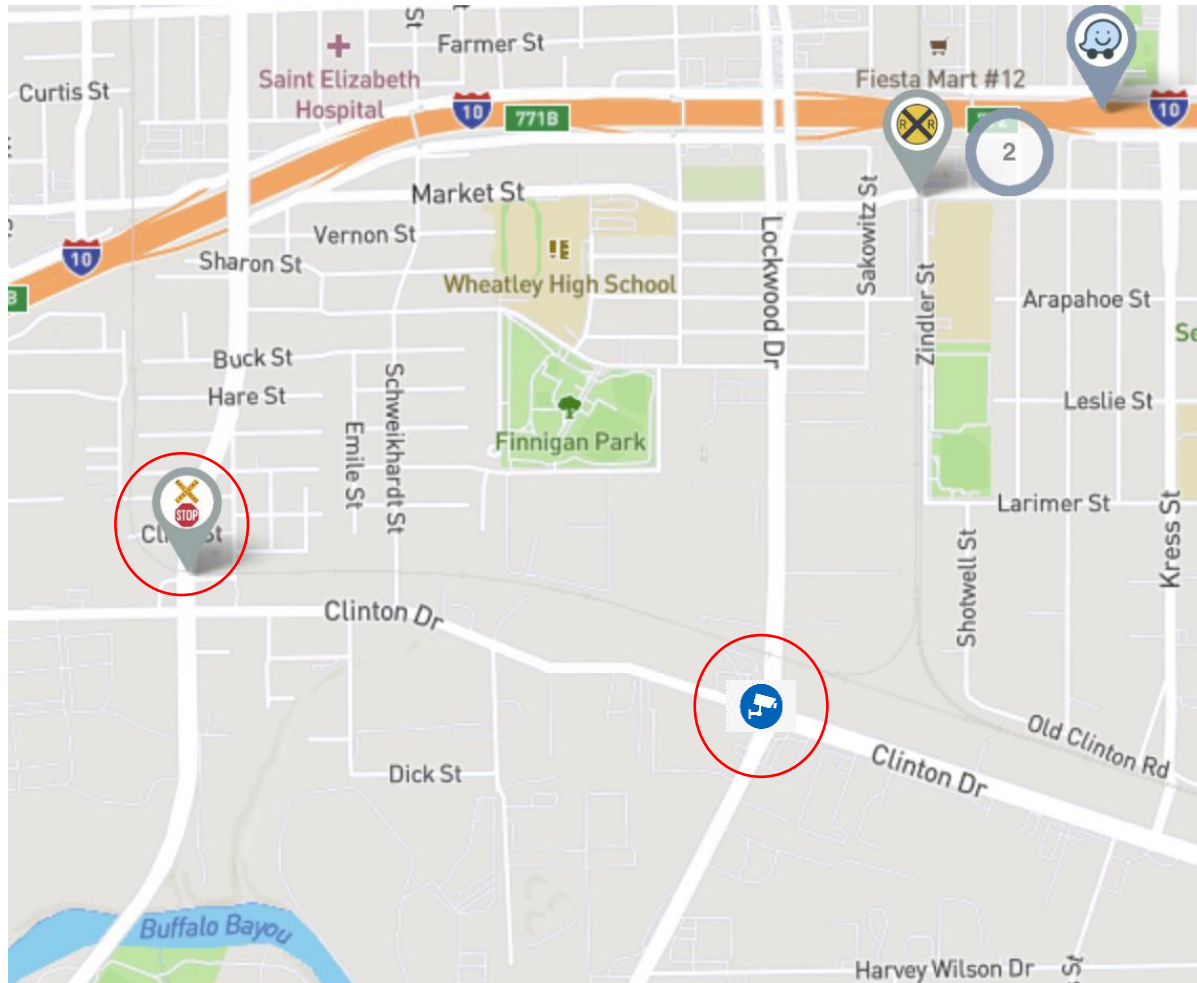


* open API to share data to mapping services or messaging boards

Fire Station Sees All



Deliverables



*Detection coupled with visual validation

Concept

Houston Train Watch

Concept



Report a Blocked Crossing ([Link To FRA Blocked Crossing Dashboard](#))

Crossing Activity

ANTOINE STREET
Blockage Start: 07:18
Blockage End: 08:19
SOUTH PINEMONT DRIVE
Blockage Start: 13:21
Blockage End: 14:22
FONDREN ROAD
Last Blockage: 10:40
Duration: 4 minutes
HILLCROFT AVENUE
Last Blockage: 10:37
Duration: 4 minutes
CHIMNEY ROCK ROAD
Last Blockage: 10:35
Duration: 5 minutes
LOCKWOOD DRIVE
Last Blockage: 10:25
Duration: 1 minute
POLK STREET
Last Blockage: 10:09
Duration: 33 minutes
SOUTH SHAVER STREET
Last Blockage: 10:36
Duration: 2 minutes
POST OAK SOUTHBOUND FRONTAGE
Last Blockage: 10:29
Duration: 8 minutes
SCOTT STREET
Last Blockage: 10:32
Duration: 3 minutes
GENOA RED BLUFF ROAD
Last Blockage: 10:32
Duration: 1 minute
BRANTLEY STREET
Last Blockage: 10:27
Duration: 1 minute



Helpful Links

- [Operation Lifesaver](#)
- [Questions about Railroad Operations](#)
- [Live Trains Video Feed](#)
- [BNSF Web](#)
- [CPKC Web](#)
- [PTRA Web](#)
- [UPRR Web](#)

Railroad Emergency Numbers

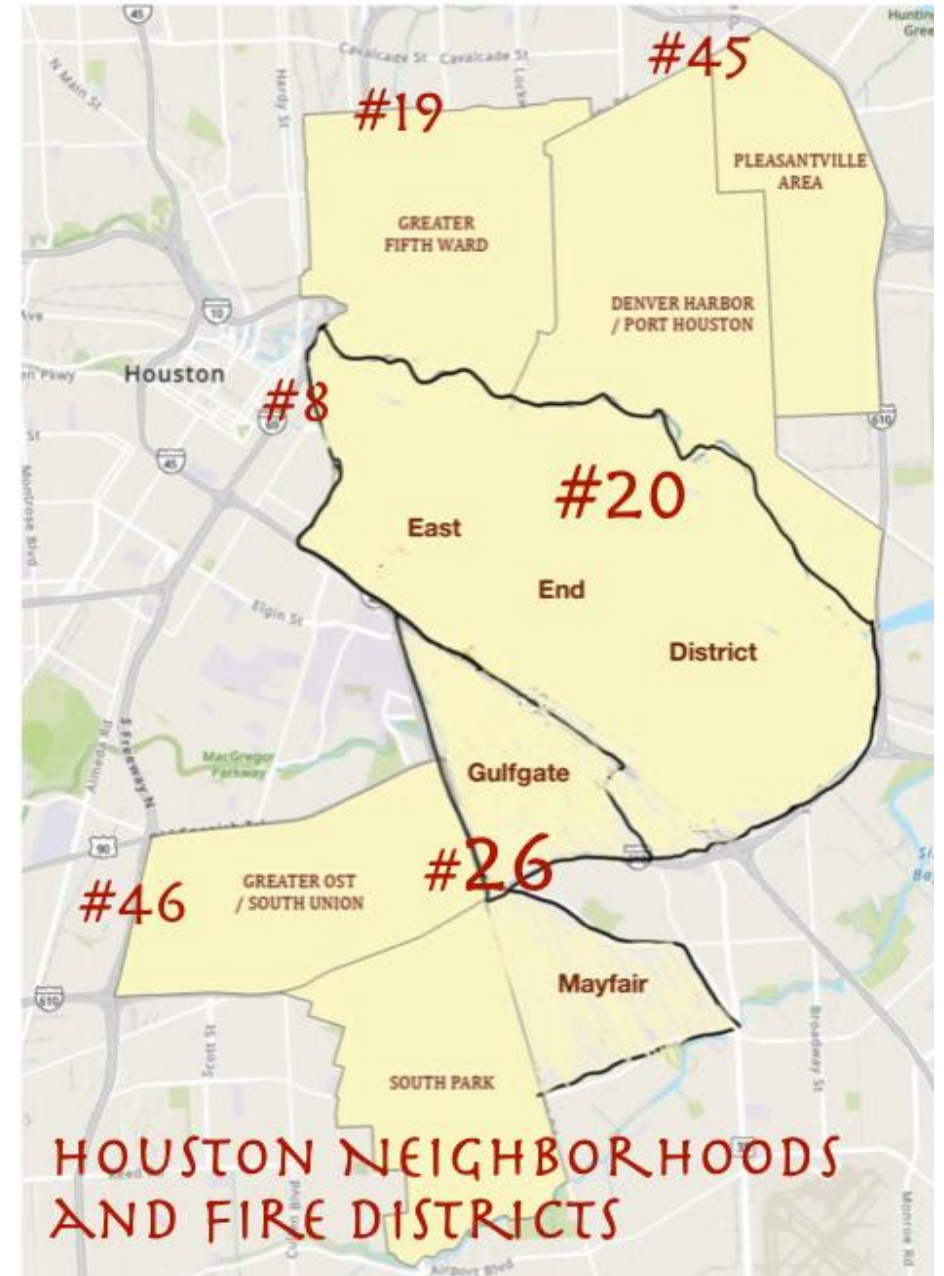
- BNSF
- PTRA
- UPRR

39.24	248	9.48
Avg. Daily Activation (hr)	Avg. Number of Activatio...	Avg. Activation Duration ... (Minutes)

Expand the Program

City of Houston Safe Streets Post Crash Care Demonstration

- \$3.4 Million in Grant Funds over a Four-Year Period
- Support Public Safety Efforts & Post Crash Care
- Improve Emergency Routing
- Reduce response time
- Assist motorist mobility and reduce unsafe behaviors
- Reduce crashes by identifying traffic anomalies



Thank You

