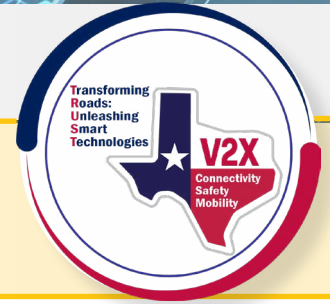


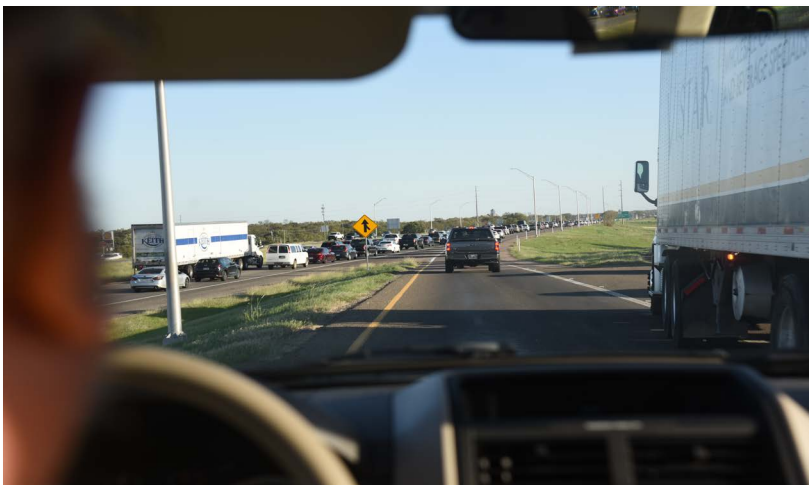
Saving Lives with Connectivity: Accelerating Vehicle to Everything (V2X) Deployment

USE CASE #6 Incident Management / Hurricane Evacuation



WHAT IS VEHICLE-TO-EVERYTHING (V2X)?

V2X functions like a group chat for the road. It allows cars, traffic lights, and other road users to communicate in real-time by sending messages to each other, and each message can carry different safety and roadway information.



V2X traffic slows on a busy highway as vehicles merge near a construction zone. (source TTI)

USE CASE #6 DESCRIPTION

Crashes and incidents are often shared through message boards or self-reported in navigation apps, but these reports may be unreliable, and message boards may be missed. With this use case, drivers receive real-time V2X alerts based on verified roadway data, helping them anticipate delays, adjust routes, and reduce secondary crash risk.

WHAT CAN I EXPECT FROM THIS USE CASE?

Real-time alerts will be sent to your mobile navigation app to inform you of nearby incidents, including details such as type, timing, and status. By improving communication through V2X, drivers can respond to changing conditions by anticipating congested traffic, planning an alternative route, and allowing drivers to notify people at their destination of delays.

HOW DOES IT WORK?

Traffic management professionals identify and verify incidents on the roadway. Incident details are processed and converted into a V2X message, which is delivered to your mobile navigation app when you are within the affected area.

TEXAS, 2023

A reportable crash occurred every



250,489 INJURIES

4,291 DEATHS

DRIVER DEATHS
on 60+ MPH
Roads



RURAL 854

URBAN 442

1,296 TOTAL DEATHS

USER STORY

The Challenge: You are heading out to a restaurant reservation, and traffic comes to a complete stop. You have no idea that a major crash has occurred, closing the entire freeway.

V2X Solution: Traffic management staff have identified, verified, and recorded the crash and the shutdown. This information is broadcast to your mobile navigation app in real time, notifying you of the incident.

Outcomes & Benefits:

You receive verified incident information from a trusted source, find an alternative route, and make it to your reservation on time.

Incident Management / Hurricane Evacuation

TEXAS TRUST PROJECT

The Transforming Roads: Unleashing Smart Technologies (TRUST) project is a federally funded initiative led by the Texas A&M Transportation Institute (TTI).

TTI, in partnership with state, local, and industry partners, is implementing V2X technology in Houston and Bryan-College Station through 15 real-world use cases that demonstrate how V2X can enhance safety, mobility, efficiency, and economic growth. TRUST aims to develop solutions that work across different technologies and regions, while sharing insights to help create a national blueprint to accelerate V2X adoption and implementation nationwide.

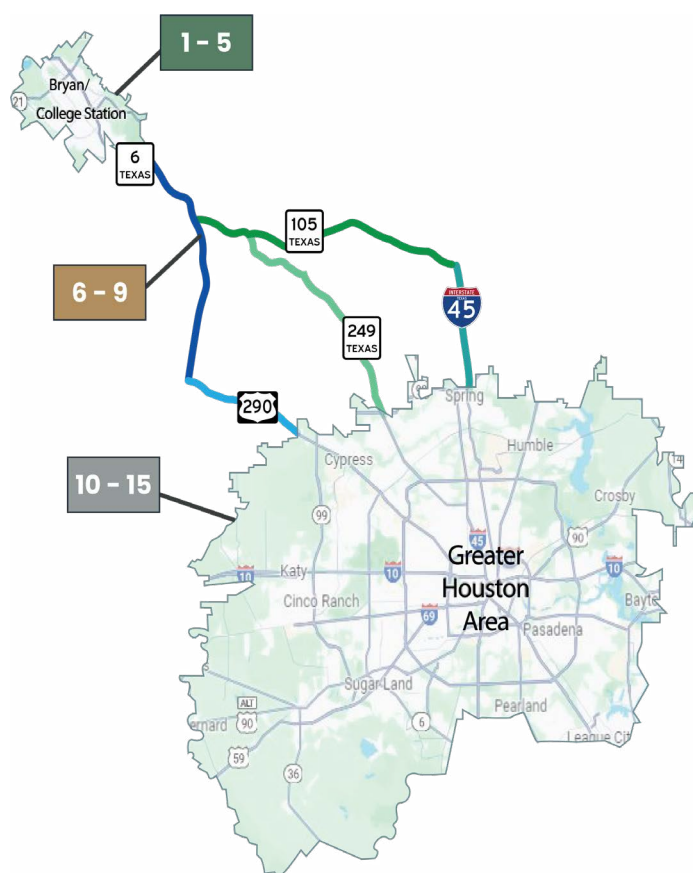
USE CASES

LOCATION:

NATIONAL HIGHWAY SYSTEM

6. Incident Management / Hurricane Evacuation

7. Adverse Weather Events/Flooding
8. Planned Construction and Special Events
9. Curve Speed Warning



LEARN MORE ABOUT TEXAS TRUST & V2X

For more information on Texas TRUST and to explore V2X educational resources, project updates, and use cases, please visit: <https://v2xtexastrust.com/>

For a list of supporting references used in these materials, visit: [V2X Use Case Sources](#).



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