

# FAST / Exercise Report P2A

TxDOT RTI Project 0-7095-01

May 30, 2024



## Year 1 Tabletop Exercise Plan

### Exercise Overview

The exercise planned for Year 1 will focus on identifying and answering data-related questions and options for the development of both the Bridge Warning and Flooded Roads GIS layers.

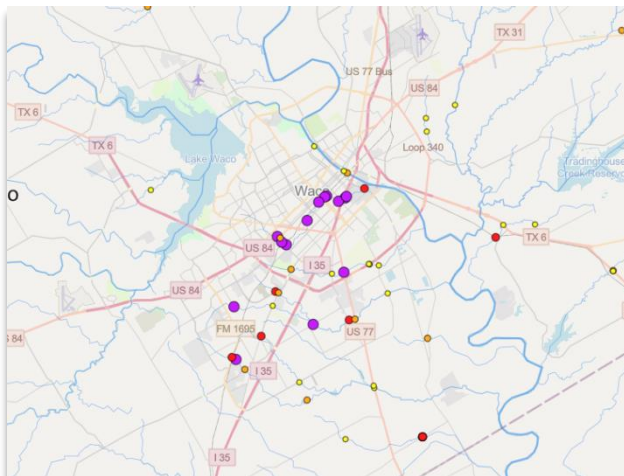
While the University of Texas Project Team has produced draft GIS layers based on research findings, there are still some outstanding questions which need TxDOT's input to develop a consumable version. These questions revolve around technical topics such as:

- technical components (platform needs, data format, etc.)
- methodology (road length, depth, etc.)
- symbology
- attributes
- useability within TxDOT's environment
- What data requirements does the chosen platform have? (ESRI vs VEOCI)

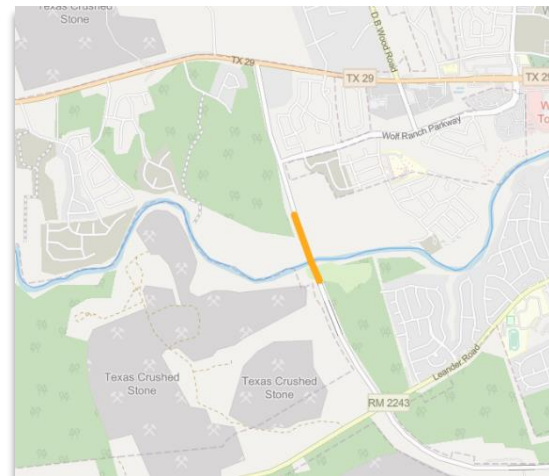
To accomplish this, Year 1 Exercise will be a 'tabletop exercise' which will allow for focused interactions and discussion about the current draft versions of the Bridge Warnings and Flooded Road layers. This type of exercise is less formal than past functional exercises and allows for both in-person and online participation. All participants will evaluate and provide feedback on the presented content of Bridge Warnings and Flooded Roads which will guide the UT Project Team.

The draft versions of both layers will be presented in an ArcGIS Online Webmap (UT's ESRI Environment). This will allow us to visually display the layers with draft 1 symbology, access attributes, and various links currently embedded in layers.

### Draft 1 Layer Examples



Bridge Warnings



Flooded Roads

## Exercise Details

### ***Exercise Structure***

- This exercise will be a tabletop exercise which allows for focused interaction & discussion about bridge warnings and flooded road layers.
- Participants will evaluate and provide feedback on the content of Bridge Warnings and Flooded Roads.

### ***Exercise Guidelines***

- This exercise will be held in an open, no-fault environment. Varying viewpoints, even disagreements, are expected.
- Decisions may be precedent setting. This exercise is an opportunity to discuss and present multiple viewpoints, recommendations, and options for the bridge warning and flooded roads maps.

### ***Exercise Evaluation***

- Evaluation of the exercise is based on the exercise objectives, aligned TxDOT priorities, and target capabilities, which are documented in Exercise Evaluation Guides (EEGs).
- To identify and capture feedback, all participants will be asked to complete a participant feedback form. These documents, coupled with facilitator notes, will be used to compile an Improvement Plan (IP) for the bridge warning and flooded roads maps.

### ***Exercise Questions***

The following questions are provided as suggested subjects to consider as the discussion progresses.

1. **Bridge Warnings & Flooded Road layer topic areas:**
  - Data structure
  - Visual display / Symbology
  - App functionality
  - Layer methodology.
2. **Platform** - What data requirements does the platform have?

### ***Exercise Outputs and Findings***

- After the exercise has been completed, the UT Team will create an Improvement Plan based on discussion and participation feedback.
- The Improvement Plan will be reviewed and approved by both UT and TxDOT for use by the development team.

## Exercise Schedule

<b>Date</b>	TBA
<b>0-30 mins</b>	Sign-in
<b>10 mins</b>	Welcome and Introductions
<b>1 hour</b>	Flooded Roads – Demo & Facilitated discussion
<b>10 min</b>	<i>Break</i>
<b>1 hour</b>	Bridge Warnings – Demo & Facilitated discussion
<b>30 mins</b>	Platform – Facilitated discussion
<b>10 min</b>	<i>Break</i>
<b>30 min</b>	Summary / Hot Wash
<b>15 mins</b>	Participant feedback form
<b>10 mins</b>	Closing Comments

## Exercise Form

Exercise Objectives	
1.	To obtain feedback and guidance on the flooded roads content layer and the Bridge Warnings content layer to identify TxDOT’s needs. Discussion revolves around: <ul style="list-style-type: none"> <li>• symbology</li> <li>• attributes</li> <li>• methodology</li> <li>• useability within TxDOT’s environment</li> <li>• technical components (platform needs, data format, etc.)</li> </ul>
2.	Discuss application platform decision.

<b>Exercise Name</b>	FAST / Flood Assessment System for TxDOT Year 1 Tabletop Exercise
<b>Exercise Dates</b>	TBA
<b>Scope</b>	This is a facilitated Tabletop Exercise, approximately 3 hours in duration, with both in-person & online options.
<b>Participants</b>	10-15 TxDOT employees ( <i>Technology, Maintenance, and Staff positions</i> )
<b>Focus Area(s)</b>	Technical components for FAST layers (Bridge Warnings & Flooded Roads)

<b>Objectives</b>	<ol style="list-style-type: none"> <li>1. To obtain feedback and guidance on the flooded roads content layer and the Bridge Warnings content layer to identify TxDOT's needs. Discussion revolves around: <ul style="list-style-type: none"> <li>• symbology</li> <li>• attributes</li> <li>• methodology</li> <li>• useability within TxDOT's environment</li> <li>• technical components (platform needs, data format, etc.)</li> </ul> </li> <li>2. Discuss application platform decision.</li> </ol>
<b>Sponsor</b>	TxDOT and University of Texas at Austin (RTI Project 0-7095-01)
<b>Participating Organizations</b>	TxDOT University of Texas at Austin / Development Team United States Geological Survey