

Combined Floodplain Seminar for Elected Officials and Trinity River COMMON VISION Steering Committee Meeting

September 3, 2026

Welcome

Susan Alvarez, PE, CFM

NCTCOG Environment & Development Department

NCTCOG Regional Service Areas



Executive Director & Agency Administration

Executive Board
Membership
Public Affairs, Strategic Plan
Municipal Fee Survey
City Management Association
Agency Administration
Training & Development Institute(TSI)



Community Service

Aging Services
Broadband
Regional Community Economic Development
Workforce Solutions
Youth
Workforce Development Training
NCT 9-1-1



Emergency Preparedness

Emergency Preparedness Planning Council
Homeland Security Grant Program
Collaborative Adaptive Sensing of the Atmosphere (CASA Wx)
Urban Area Security Initiative Mitigation
Technical Resources
Public Safety



Environment & Development

Watershed Management
Open Space Planning/ Preservation
Materials Management
Regional Building Codes
Public Works Development Excellence
R.I.S.E



Transportation

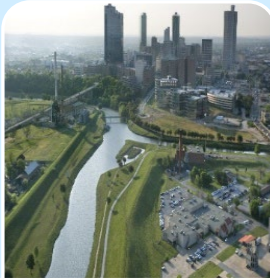
Regional Planning & Projects, Plans Studies & Reports
Quality of Life
State Implementation Plan (Air Quality)
All things EV
Energy Efficiency
Climate Pollution Reduction Plan



Information and Innovation Services

Regional Data
Digital Elevation Contours
Geospatial Information Systems (GIS)
Population data and related land use projections

Environment & Development Department Primary Focus Areas



Watershed Management

Stormwater Management
Water Quality
Trinity River Common Vision
Flood Risk Reduction
Integrated Transportation & Stormwater Planning (TSI)



Development Excellence

Principles of Development Excellence
RISE Coalition
Technical Tools



Materials Management

Regional Landfill Capacity
Recycling
Waste to Energy
Illegal Dumping
Technical Resources



Natural Resources

Water Supply
Water Quality
Open Space Planning/
Preservation
Energy



Public Works

Construction Standards
Wastewater Roundtable
iSWM™
Texas Community Block Grants
Public Works Roundup!



Regional Building Codes

Commercial & Residential
Electrical & NEC
Plumbing & Mechanical
Energy & Green Construction
Fire Codes

www.nctcog.org/envir/

NCTCOG Floodplain Management Programs

NCTCOG brings local governments and stakeholders together to reduce flood risks.

Programs:

- Trinity River COMMON VISION
- Corridor Development Certificate Program
- Transportation and Stormwater Infrastructure Project (TSI)
- FEMA Cooperating Technical Partnership
- *integrated* Stormwater Management Program
- TXShare

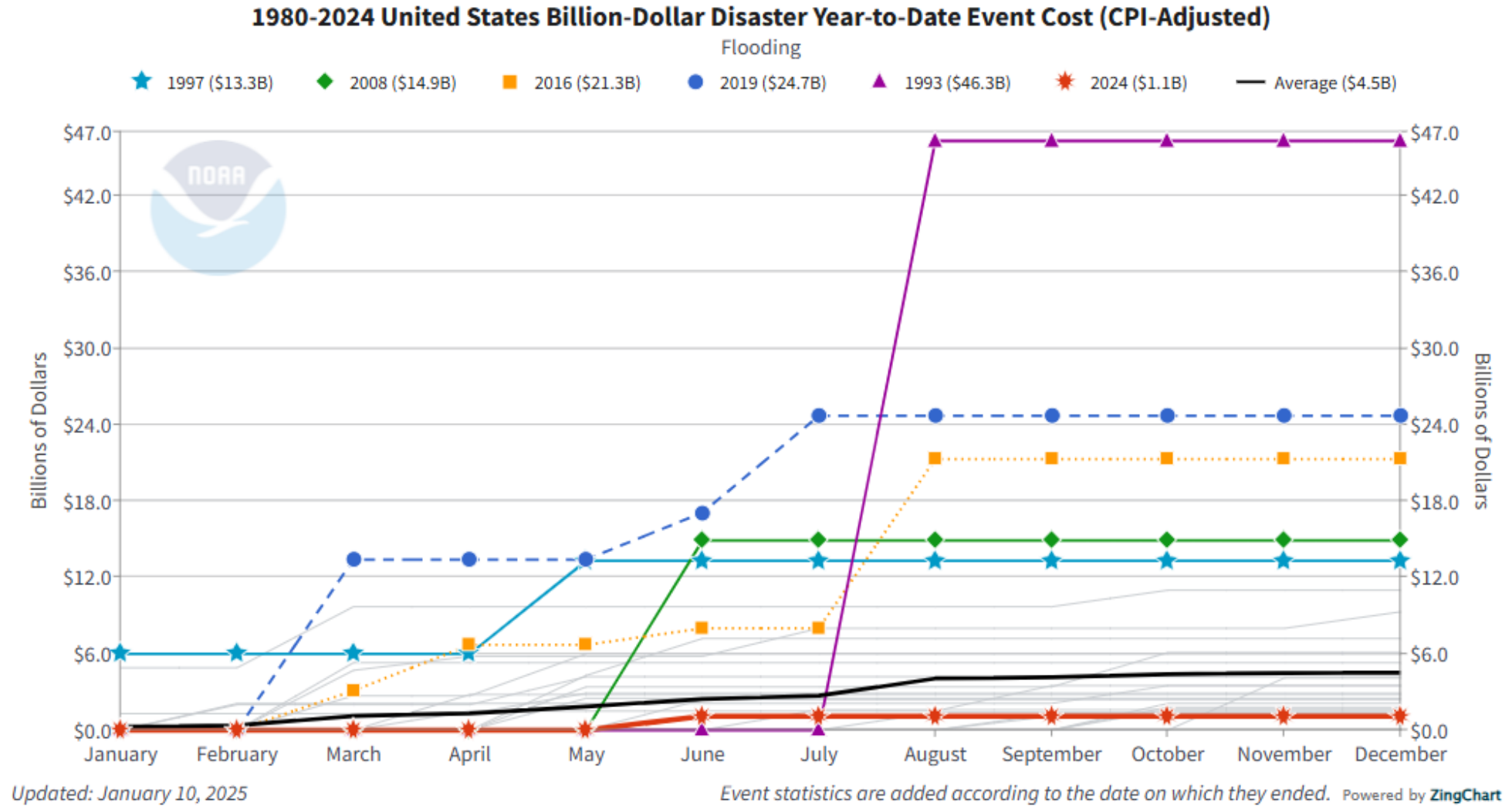
Committees

- Trinity River COMMON VISION Steering Committee
- Public Works Council
- Transportation and Stormwater Infrastructure Steering Committee

Funding Sources

- Local Funds
- Texas Water Development Board
- Texas General Land Office
- Texas Department of Transportation
- Federal Emergency Management Agency
- Federal Highway Administration
- U.S. Army Corps of Engineers

Billion-Dollar Floods



- NOAA National Centers for Environmental Information (NCEI) U.S. Billion-Dollar Weather and Climate Disasters (2025).
- <https://www.ncei.noaa.gov/access/billions/>, DOI: <https://www.doi.org/10.25921/stkw-7w73>

Contact

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Connect



Facebook.com/nctcogenv



@nctcogenv



nctcogenv



youtube.com/user/nctcoged



EandD@nctcog.org

www

nctcog.org/envir

Flood and Stormwater Financial Assistance Programs

State Water Implementation Fund for Texas (SWIFT)

Scott Galaway

Texas Water Development Board

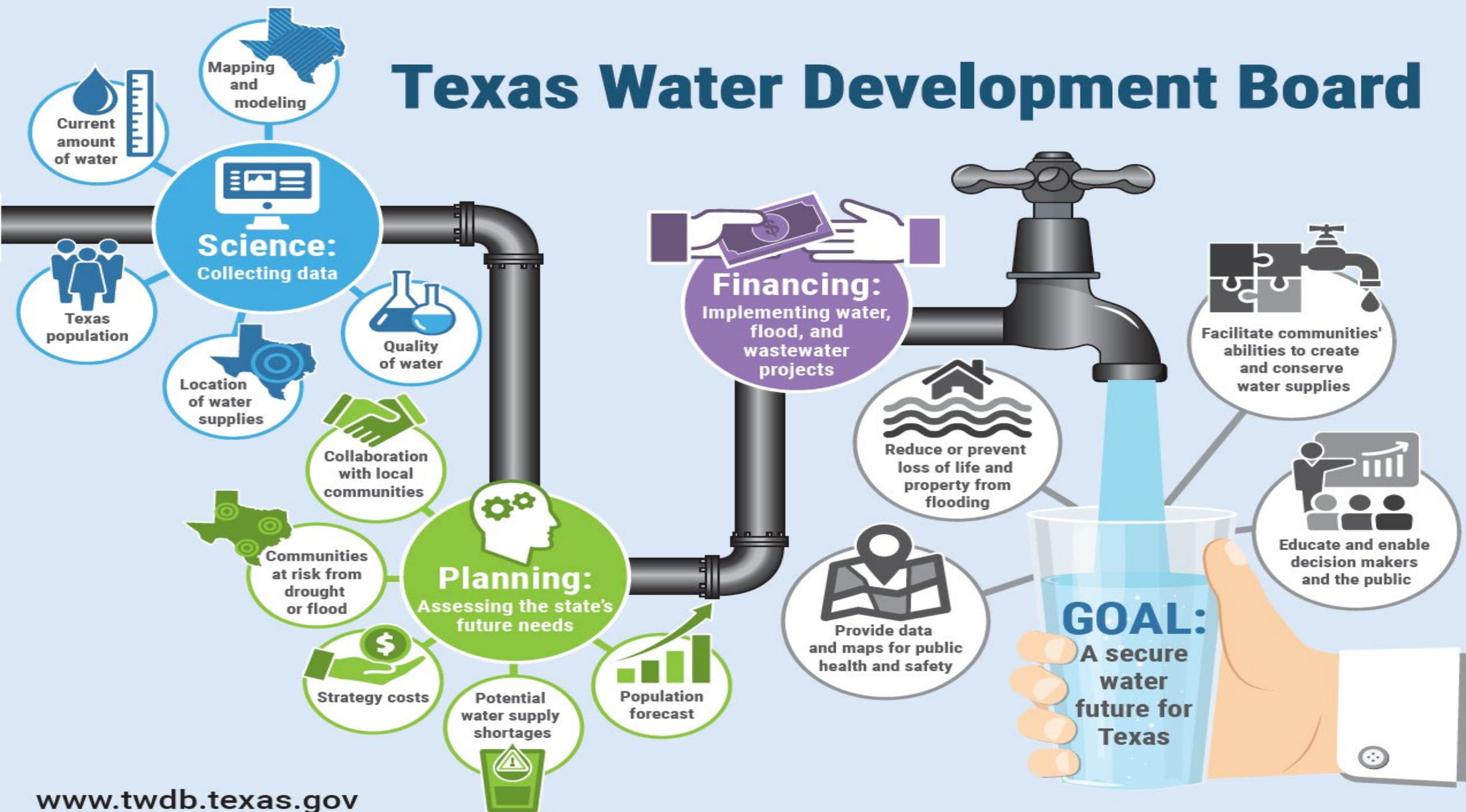
Texas Water Development Board

Financial Assistance Programs Briefing

Trinity River COMMON VISION Steering Committee

September 3, 2026

Texas Water Development Board



Existing Financial Assistance Programs

Program	Link
Agricultural Water Conservation Grants Program	www.twdb.texas.gov/financial/programs/AWCG/index.asp
Agricultural Water Conservation Loan Program	www.twdb.texas.gov/financial/programs/AWCL/index.asp
Asset Management Program for Small Systems	www.twdb.texas.gov/financial/programs/ampss/index.asp
Clean Water State Revolving Fund	www.twdb.texas.gov/financial/programs/CWSRF/index.asp
Drinking Water State Revolving Fund	www.twdb.texas.gov/financial/programs/DWSRF/index.asp
Lead Service Line Replacement	www.twdb.texas.gov/financial/programs/Lead-SLR/index.asp
Emerging Contaminants Program	www.twdb.texas.gov/financial/programs/ec/index.asp
Economically Distressed Areas Program	www.twdb.texas.gov/financial/programs/EDAP/index.asp
FEMA Flood Mitigation Assistance Grant Program	www.twdb.texas.gov/financial/programs/FMA/index.asp
FMA Swift Current	www.twdb.texas.gov/financial/programs/FMASC/index.asp
Flood Infrastructure Fund	www.twdb.texas.gov/financial/programs/FIF/index.asp
Rural Water Assistance Fund	www.twdb.texas.gov/financial/programs/RWAF/index.asp
State Participation Program	www.twdb.texas.gov/financial/programs/SPP/index.asp
State Water Implementation Fund for Texas	www.twdb.texas.gov/financial/programs/SWIFT/index.asp
Texas Water Development Fund	www.twdb.texas.gov/financial/programs/TWDF/index.asp
Water Utilities Technical Assistance Program	www.twdb.texas.gov/financial/programs/WUTAP/index.asp

Funding Program Key Points

AAA Bond Rating/
Interest Rate
Subsidization

Funding to
accommodate
projects of all sizes

Some projects
qualify for combined
funding through
multiple programs

All project phases are
eligible: planning,
design, acquisition,
construction

Examples of Eligible Projects

- Stormwater Control
- Nonpoint Source Pollution Control
- Flood Control and Mitigation
- Drainage Infrastructure
- Warning Systems

New Funding from the 89th Texas Legislature



Constitutional Amendment Proposition 4

- Proposition 4 - Voter Approval - November 4, 2025
- \$1Billion annually for 20-years beginning in the 2028-29 Biennium for water supply projects.
 - **50% New Water Supplies**
 - **50% Aging Infrastructure**
- Proposition 4 dedicates \$1B in state sales tax above \$46.5B to the Texas Water Fund.
- The Texas Water Fund created in 2023 with the passage of Proposition 6 - an account that can move funds into existing TWDB financial assistance programs.
- **Fall 2029:** Availability of funds via TWDB's existing financial assistance programs.

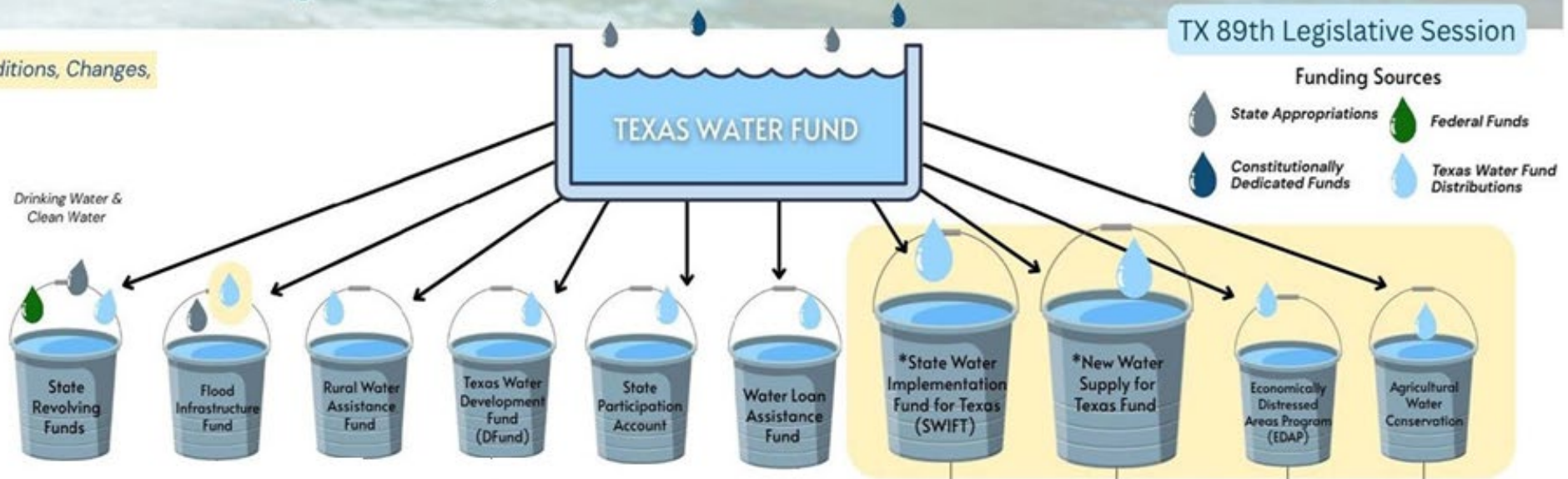
Proposition 4 FAQ: <https://www.twdb.texas.gov/financial/programs/twf/index.asp>

Texas Water Fund

Appropriations to Existing Financial Assistance Program

Texas Water Fund September 1, 2025

New Additions, Changes,



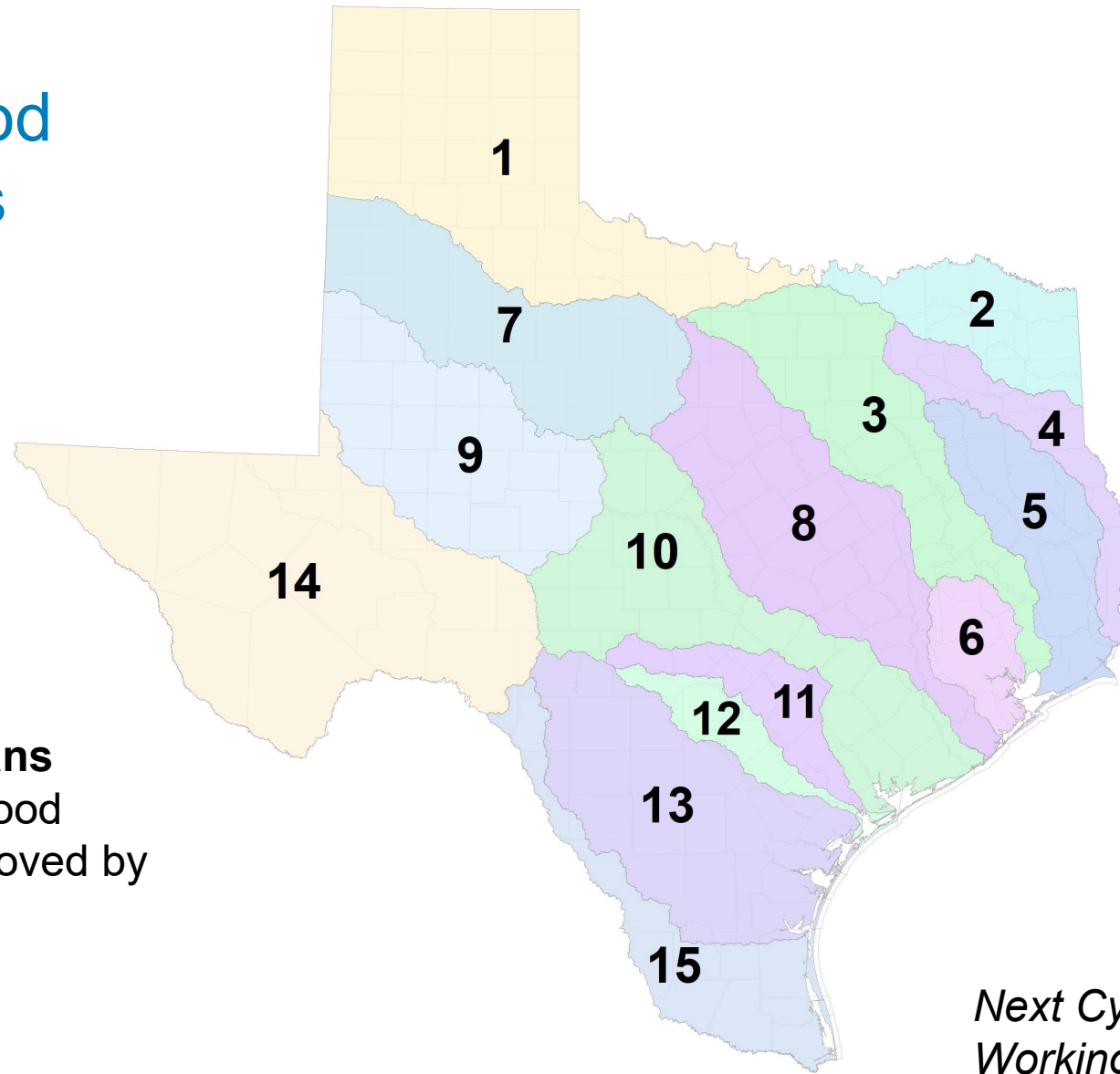
Flood Planning in Texas

- The 2019 Texas Legislature greatly expanded the TWDB's role in flood planning and financing.
- Inaugural **2024 Texas State Flood Plan** adopted on August 15, 2024.
- Brings together the findings of the 15 river-basin-based regional flood plans and makes legislative and floodplain management recommendations to guide state, regional, and local flood control policy.



TWDB

15 Regional Flood Planning Groups



2023 Regional Flood Plans
adopted by the regional flood
planning groups and approved by
the TWDB July 2023

*Next Cycle - 2028 Regional Flood Plan
Working Documents (2024-2028)*

TWDB Flood Programs

FEMA Flood Mitigation Assistance (FMA) Grant Program

Federal funding for projects that reduce or eliminate the risk of flood damage to structures insured under the NFIP. FEMA approved Hazard Mitigation Plan required.

TWDB Flood Infrastructure Fund

Support the local match for federal award

Support already-vetted flood mitigation projects

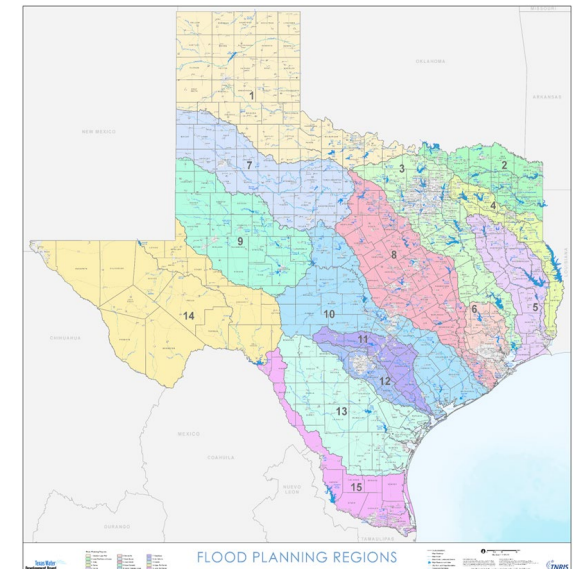
FEMA FMA Swift Current

Requires Federal Flood Disaster Declaration. Federal funding for projects in communities under federal disaster declaration.

Purpose: Assist Texas communities by providing federal and state funds for cost-effective flood mitigation measures to reduce or eliminate the long-term risk of flood damage.

Programs	Eligible Applicants:	Security Instruments:	Typical Pledges Include:	Length of Loans:
<u>Flood Infrastructure Fund (FIF)</u>	• Political Subdivisions • Nonprofit Water Supply Corporations • Project must be in adopted State Flood Plan	• Bonds • Loan Agreement	• System Revenue • Contract Revenue • Ad Valorem Tax • Tax and Revenue Pledge	• Varies

- Must be recommended as Flood Management Evaluations (FME), Flood Mitigation Projects (FMP), or Flood Management Strategies (FMS) in a Regional and State Flood Plan.
- Up to 30-year repayment period for construction projects.
- Up to 10-year repayment period for planning, acquisition, and/or design projects.
- 0% interest loans and grants available.
- Eligible activities: planning, construction, nature-based solutions, warning systems, and gages.
- **Draft FIF Intended Use Plan available on website**



Programs	Eligible Applicants:	Security Instruments:	Typical Pledges Include:	Length of Loans:
<u>Texas Water Development Fund (DFUND)</u>	• Political Subdivisions • Nonprofit Water Supply Corporations	• Bonds • Loan Agreement	• System Revenue • Contract Revenue • Ad Valorem Tax • Tax and Revenue Pledge	• 20 to 30 years

- The program enables the TWDB to fund projects with multiple purposes for **drinking water, wastewater, and flood control** in one commitment.
- 100% low-interest loan available annually.
- Long-term fixed interest rates based on the TWDB's cost of funds.
- No maximum funding limits. TWDB will sell bonds as needed.
- Applications due **September 30, 2026**, and require a pre-application meeting.

Programs	Eligible Applicants:	Security Instruments:	Typical Pledges Include:	Length of Loans:
<u>Clean Water State Revolving Fund (CWSRF)</u>	• Political Subdivisions • Water Supply Corporations • Designated Water Management Agencies • Authorized Tribal Organizations • Private Entities (<i>Nonpoint Source Projects Only</i>)	• Bonds • Loan Agreement	• System Revenue • Contract Revenue • Ad Valorem Tax • Tax and Revenue Pledge	• 20 to 30 years

- Federal Program to address wastewater, stormwater, and reuse such as wastewater treatment facilities, wastewater recycling and reuse facilities, non potable reuse, wastewater collection systems, stormwater control, nonpoint source pollution control projects.
- Loan Principal Forgiveness (grants) for disadvantaged communities, small/rural disadvantaged, very small systems, green, and urgent need.
- 1.75% loan origination fee
- SFY27 - \$146,730,000
- **\$67M** - maximum financing per project. **\$10M** - maximum principal forgiveness
- Project Information Form (PIF) due March 5, 2027.

Clean Water State Revolving Fund Project Categories

- **Treatment and/or Collection (POTW) (Section §212)**: Construction or rehabilitation of a Wastewater Treatment Plant (WWTP); expansion of the hydraulic capacity at a WWTP; expansion of the solids treatment and handling portion of a WWTP; or construction of facilities, including linework, to enable reuse of reclaimed wastewater or **stormwater for irrigation or other purposes**.
- **Nonpoint Source Pollution Control (NPS) (§ 319)**: NPS pollution control projects control sources of water pollution that do not enter water from a point source, including pollution generally resulting from land runoff, precipitation, atmospheric deposition, drainage, seepage, or hydrologic modification. This may also involve stormwater projects.
- **Estuary Management (§ 320)**: Estuary management includes conservation and/or management projects that impact a national estuary.

Applicant Helpful Tips

➤ Financial

- Is the entity prepared for bond issuance?
- Independent Financial Audit up to date?

At the time of formal application submittal, a current audit is required for the application to be deemed administratively complete.

- Current registration with SAM (System for Award Management, <https://sam.gov>)

➤ Ability to Take on Debt

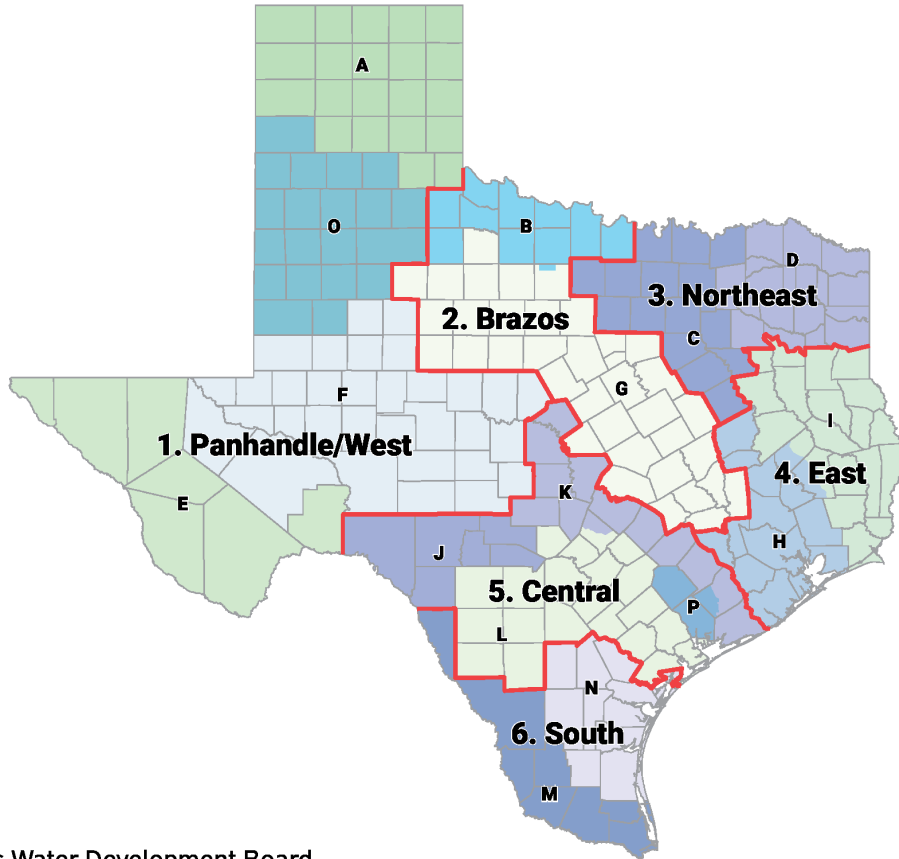
- Credit analysis will be completed.
- Loan repayment pledge?
- Are water rates, wastewater rates, and surcharges sustainable?
- Will rates need to be increased?

➤ Self-Reports to the TWDB up-to-date?

- Water Use Survey
- Water Loss Audit
- Water Conservation and Drought Contingency Plan
- Water Conservation Plan Annual Reports

➤ Talk early and often with TWDB staff – we are happy to provide guidance and support.

TWDB Contacts



Texas Water Development Board
1700 North Congress Avenue
Austin, TX 78701
Tel: (512) 463-7847
Fax: (512) 475-2053

General Email

Financial_Assistance@twdb.texas.gov

Financial Assistance Outreach Team

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scott.galaway@twdb.texas.gov

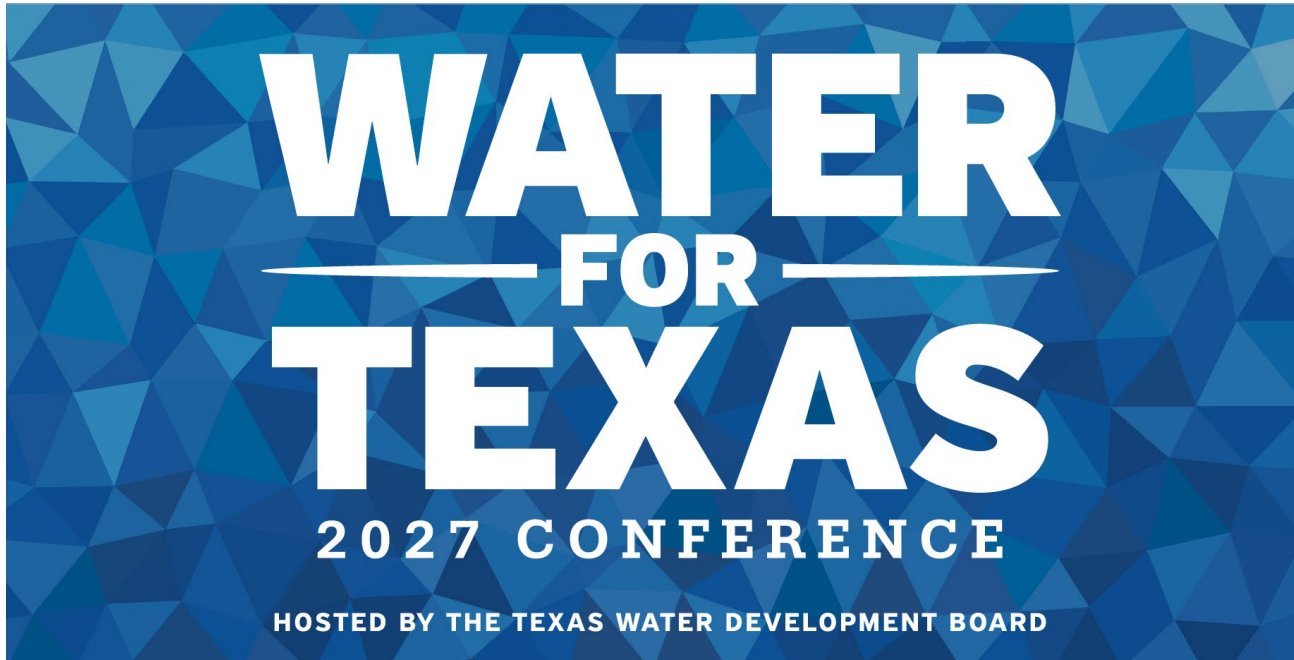
Enriqueta "Keta" Caballero

512-435-9071

enriqueta.caballero@twdb.texas.gov

(512) 463-7847

www.twdb.texas.gov/financial/programs



JANUARY 25-27, 2027
AUSTIN, TEXAS

Visit

<https://www.twdb.texas.gov/financial/index.asp>

Subscribe to TWDB's Newsletter

<https://www.twdb.texas.gov/newsmedia/signup.asp>

Integrated Stormwater Management (iSWM) Program

Randy Peterman, PE, CFM, ENV SP

Halff



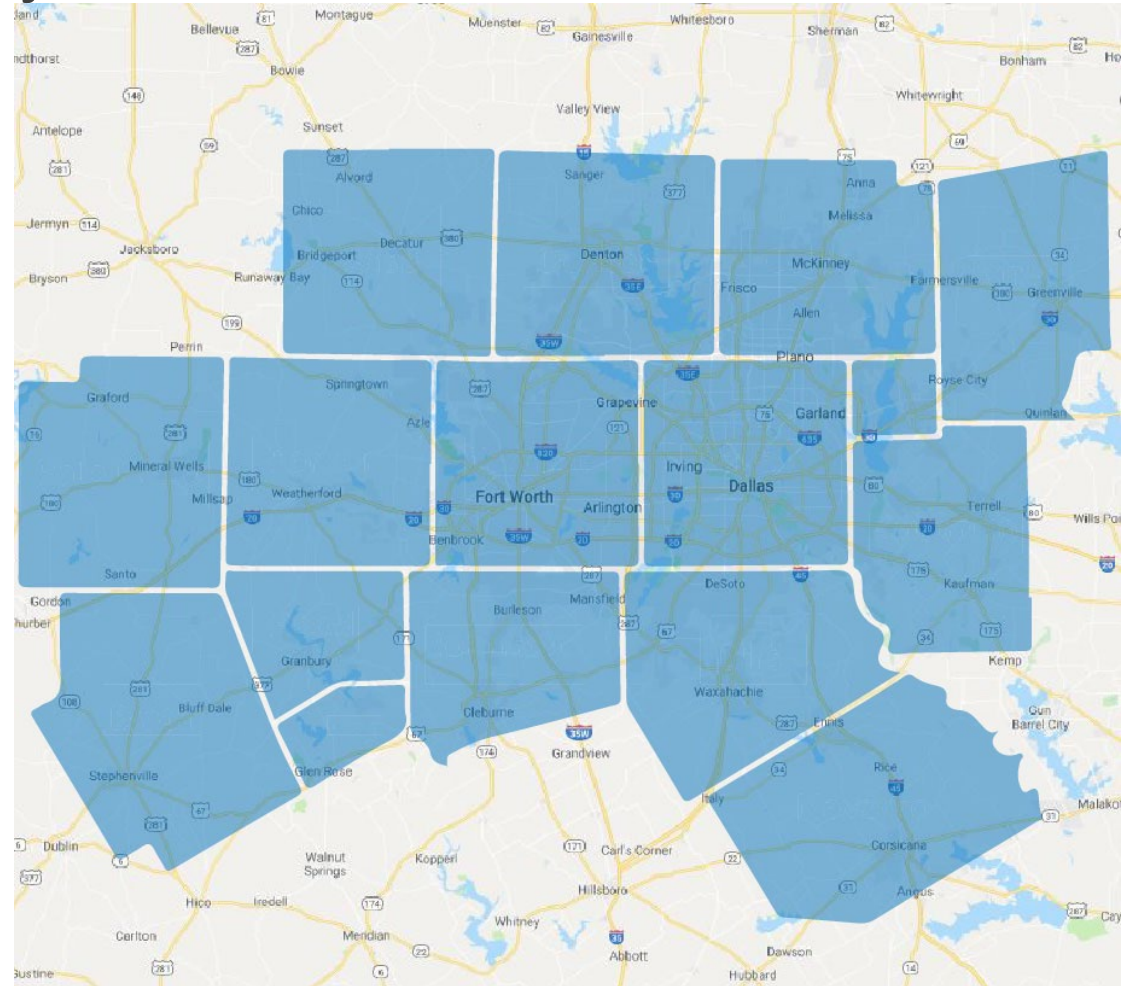
Better Development Through Better Stormwater Standards: The iSWM Program

Randy Peterman, PE, CFM, ENV SP

September 3rd, 2026

WHAT IS iSWM?

- Regional program administered by NCTCOG
- Collaborative effort
 - 60+ local governments
 - iSWM Subcommittee
 - Regional Public Works Council
 - Consultant Team
- Flood Mitigation
- Streambank Protection
- Water Quality
- Meet MS4 Permit Requirements



LAND DEVELOPMENT AND STORMWATER

- Unmitigated development = more runoff
- Streambank erosion
- Flooding
- Pollution
- Loss of ecosystem services
- Watershed boundaries don't match political boundaries



BENEFITS OF THE iSWM PROGRAM

- Criteria for communities to adopt/reference
- Freely available technical guidance on stormwater topics
- Manages water quality during and after construction
- Regional consistency
- Protects downstream communities from upstream development



CRITERIA & TECHNICAL MANUALS

- Planning (integrated site design)
- Water Quality
- Hydrology
- Hydraulics
- Site Development Controls
- Construction Controls
- Landscape



RESEARCH LIBRARY

- iSWM Subcommittee requests
- Consultant team conducts research
- Research
 - Trees in Detention Ponds
 - Pipe Utility Crossings
- Training
 - Permeable pavement
 - Best practices for development submittals

Other iSWM Related Documents

*New

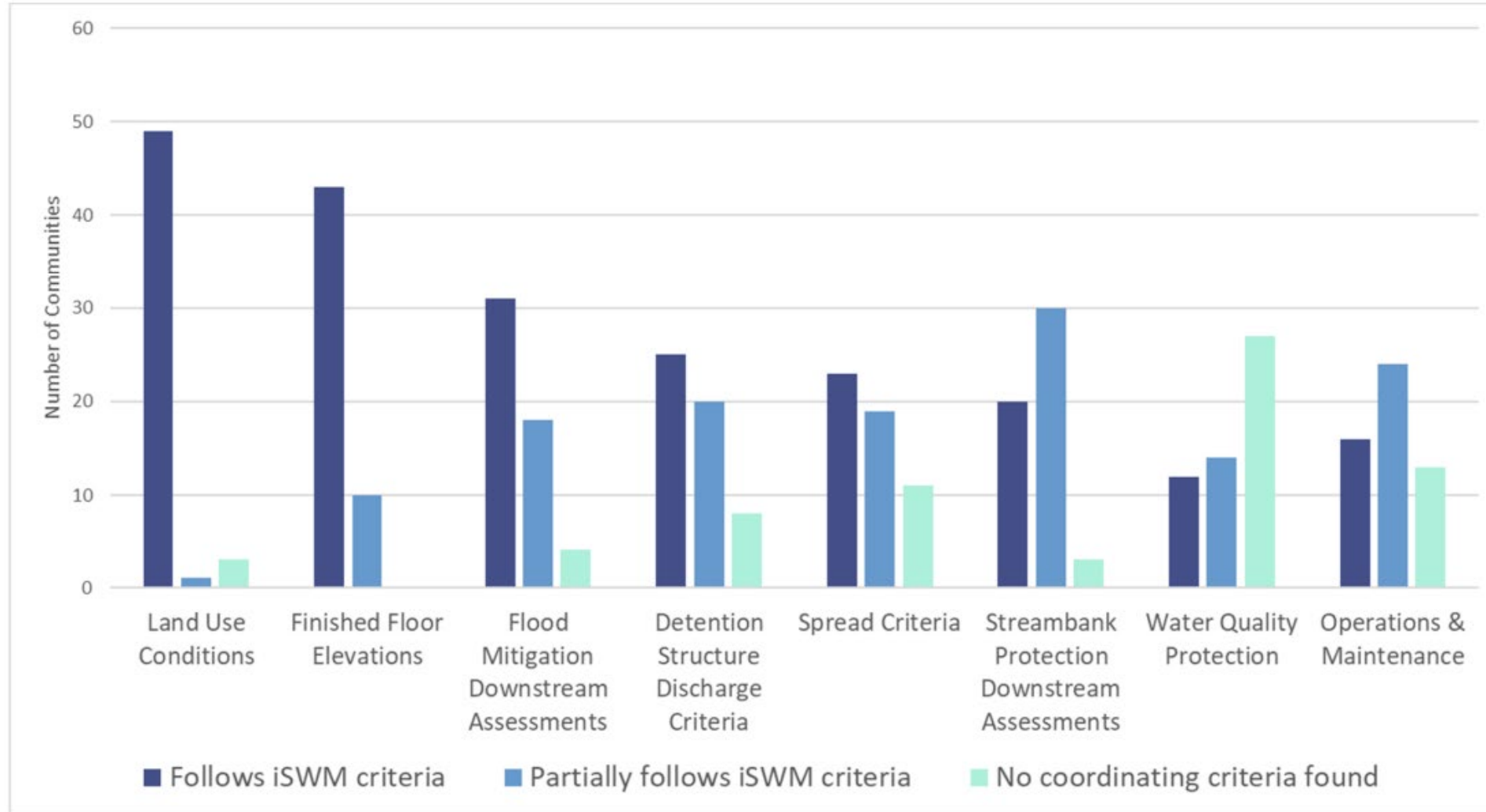


Memo on Hydrologic Mimicry Research

The iSWM Criteria and Technical Manuals do not provide guidance for planning and design for hydrologic mimicry. This memorandum includes research on previous hydrologic mimicry cases.

 Download PDF

iSWM COMMUNITY INVENTORY



FUTURE GOALS OF PROGRAM

- Upcoming workshop – manual updates
- Manual Updates will incorporate TSI
- Updating community criteria inventory/Storymap
- Modernization



The image features a dark blue background with several geometric shapes. A large, light blue diamond shape is centered in the upper half, containing the text "Q&A" in white. To the left of this diamond are three overlapping rounded squares in shades of teal and light blue. In the bottom right corner, there is a faint, light blue geometric pattern consisting of overlapping squares and rectangles.

Q&A

Stormwater Integrated Flood Forecasting Tool (SWIFFT)

Seth Lawler, PhD

Dewberry



SWIFFT

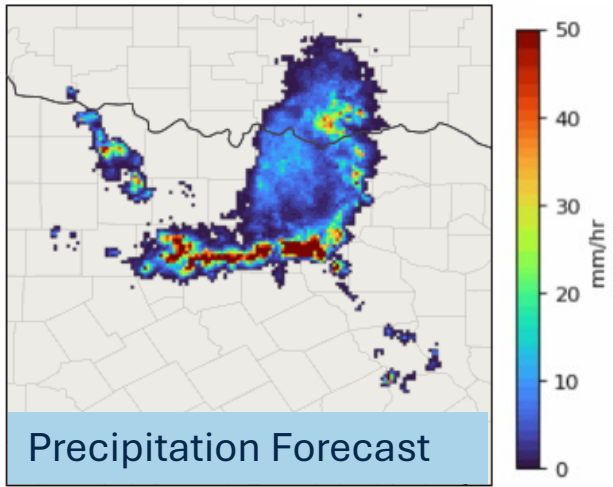
Turning Forecasts into Safer Roads: SWIFFT Flood Prediction in North Texas

NCTCOG Flood Management Task Force | August 21, 2026



How can local **agencies** gain actionable flood intelligence before roads are underwater?

val 20250804 +10 min (valid 10:10Z)
Dewberry Model



6 AM



Location Forecasted to Flood in next 4 Hours

7:15 AM





SWIFFT

Stormwater Integrated Flood Forecasting Tool

The Vision



Creates a new preemptive warning system for potential flooded roads in the DFW Metroplex



Integrates observed and forecast data to predict where and when flooding may impact roads

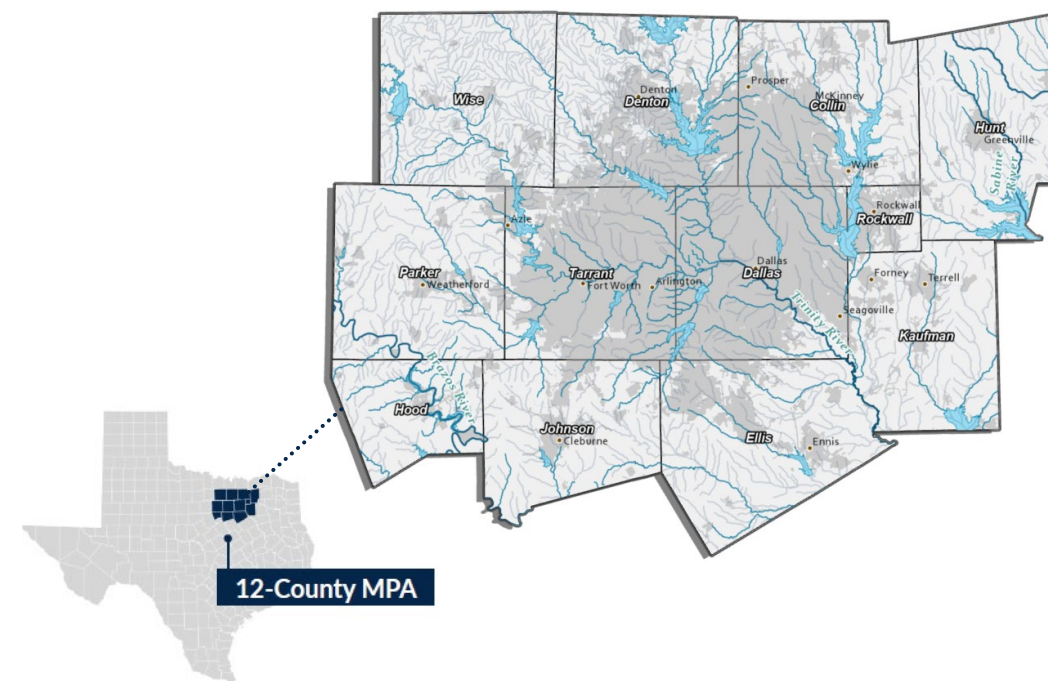


Reroutes traffic through existing navigational systems



Informs emergency responders

Project Area



Floodplain Management Benefit

Tool Capability

- Real-time stream monitoring
- Forecast inundation mapping
- Rainfall intelligence
- Flood Alerts
- Historical data



Floodplain Management Benefit

- Situational awareness
- Risk identification
- Event monitoring
- Earlier coordination
- Mitigation Planning

Advisory Council

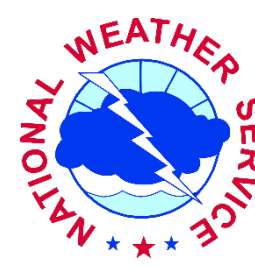
Local

- **Emergency Managers & Floodplain Administrators** (from small and large communities)
- **NCTCOG** Emergency Managers, Director of Environment and Development, Transportation Planners
- Tarrant Regional Water District (**TRWD**) - Engineer



State

- Texas Division of Emergency Management (**TDEM**) – Regional Preparedness Coordinator
- Texas Department of Transportation (**TxDOT**)– State Hydraulic Engineer



National

- **NOAA** National Weather Service (**NWS**) – Senior Service Hydrologist
- **NOAA** West Gulf River Forecast Center (**RFC**) – Hydrologist in Charge
- **USGS** – Branch Chief, Hydrology



Development Framework

Phase 1: Exploration

Understanding stakeholder needs and decision workflows.

Phase 2: Co-Design

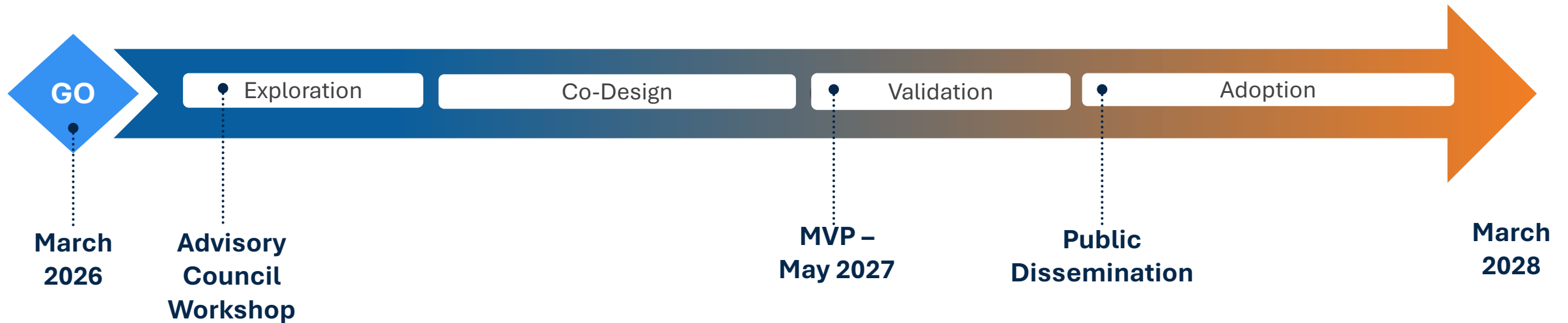
Collaborating with stakeholders via Advisory Council to refine messaging and system outputs.

Phase 3: Validation

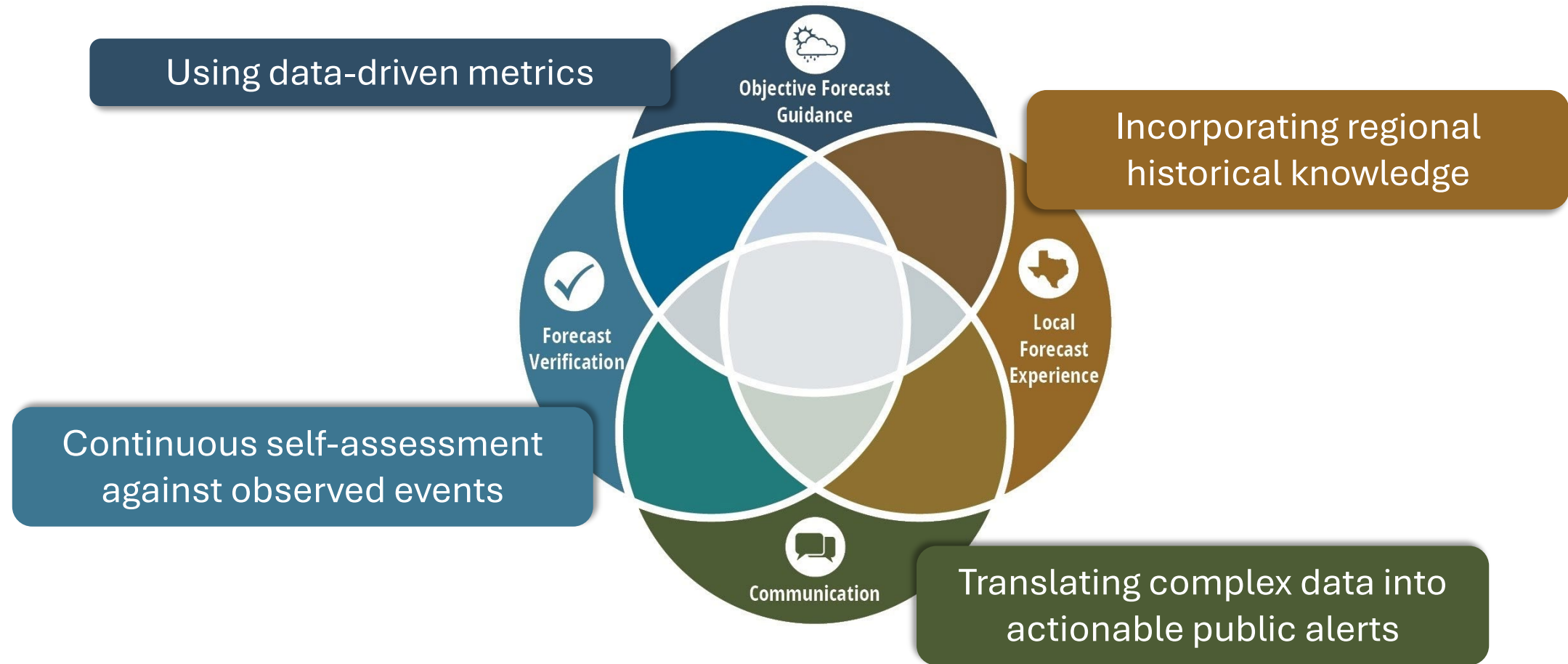
Testing the system and gathering user feedback.

Phase 4: Adoption

Training users and supporting implementation.



Forecasting Philosophy



System Design Principles

Building to the Future

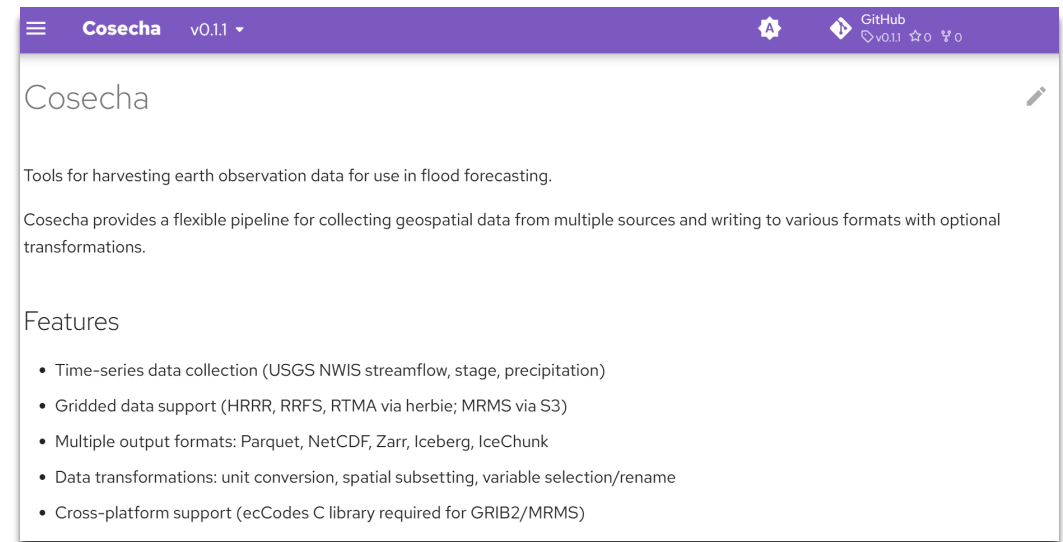
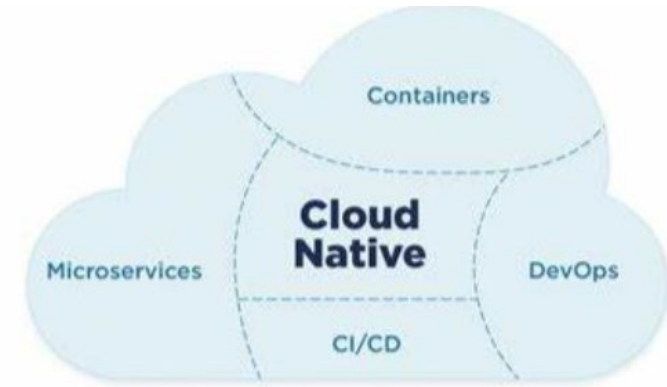
- Data Ingestion Interfaces
- Model Agnostic

Open Standards

- Cloud Native Formats

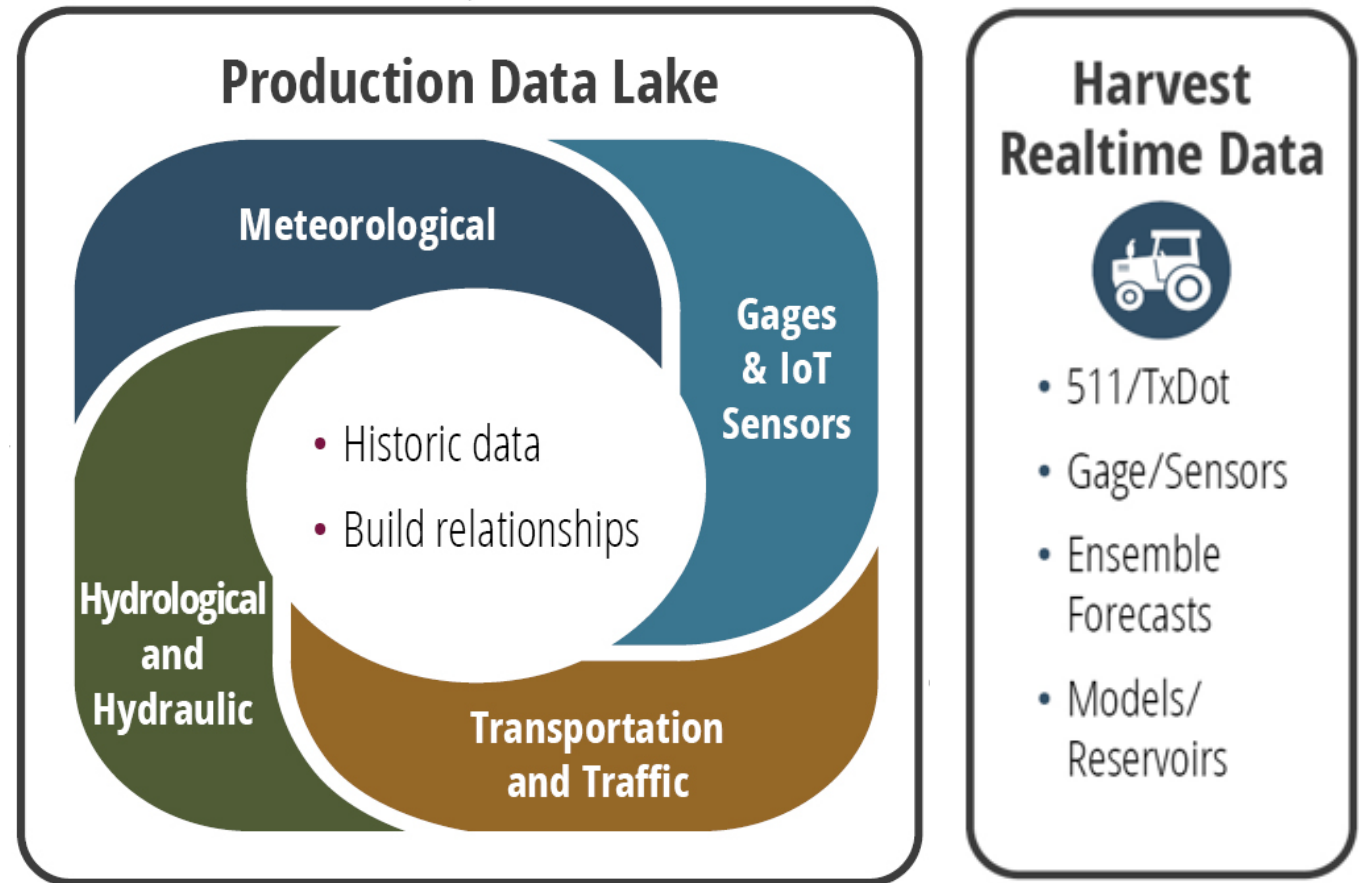
Open Source Software

- No Vendor Lock
- Extensibility



Data Engineering

- Data Lake
- Harvesting
- Critical Datasets
 - Bridge/roadway elevations
 - Local gage/sensor networks outside of USGS
 - NOAA/USGS Hydrofabric



Foundational Data

Roadway Elevations



THE UNIVERSITY OF TEXAS AT AUSTIN
CENTER FOR TRANSPORTATION RESEARCH

TECHNICAL REPORT 0-7095-1
TxDOT PROJECT NUMBER 0-7095

Flood Assessment System for TxDOT

University of Texas at Austin: David Maidment, Paola Passalacqua, Matt Bartos, Sujana Timilsina, Jeil Oh, Andy Carter, Tim Whiteaker, Harry Evans, Christine Thies, Larry Jantzen; KISTERS: Matt Ables, Attila Bibok; Aqua Strategies: Barney Austin, Tim Osting.

US Geological Survey: Scott Grzyb, Jody Avant, Jon Thomas, Michael Nyman, Kristine Blickenstaff

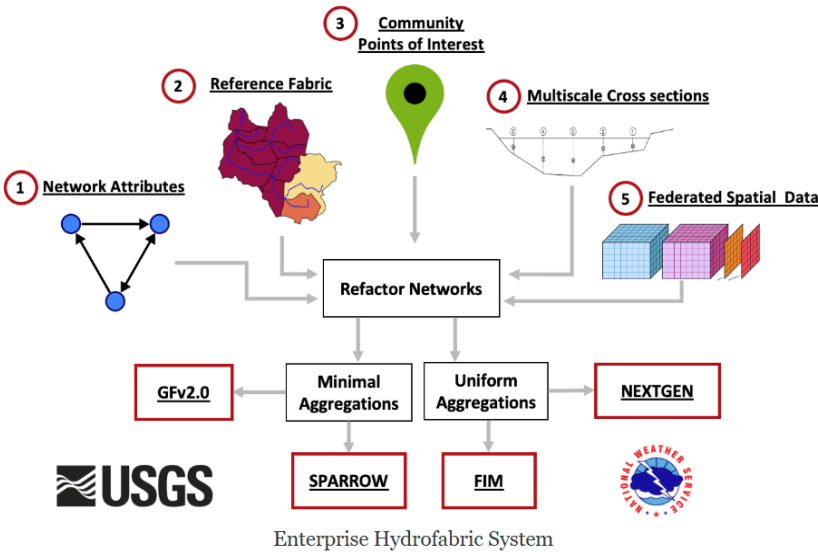
December 2024
Published May 2025

Stream Network

hydrofabric 0.1.0 Reference Articles

Background

The NextGen artifacts are a *model application* dataset built to meet the aims of [NextGen](#). By design, these artifacts are derived from a set of general authoritative data products outlined in figure 1 that have been built in close collaboration with the USGS.



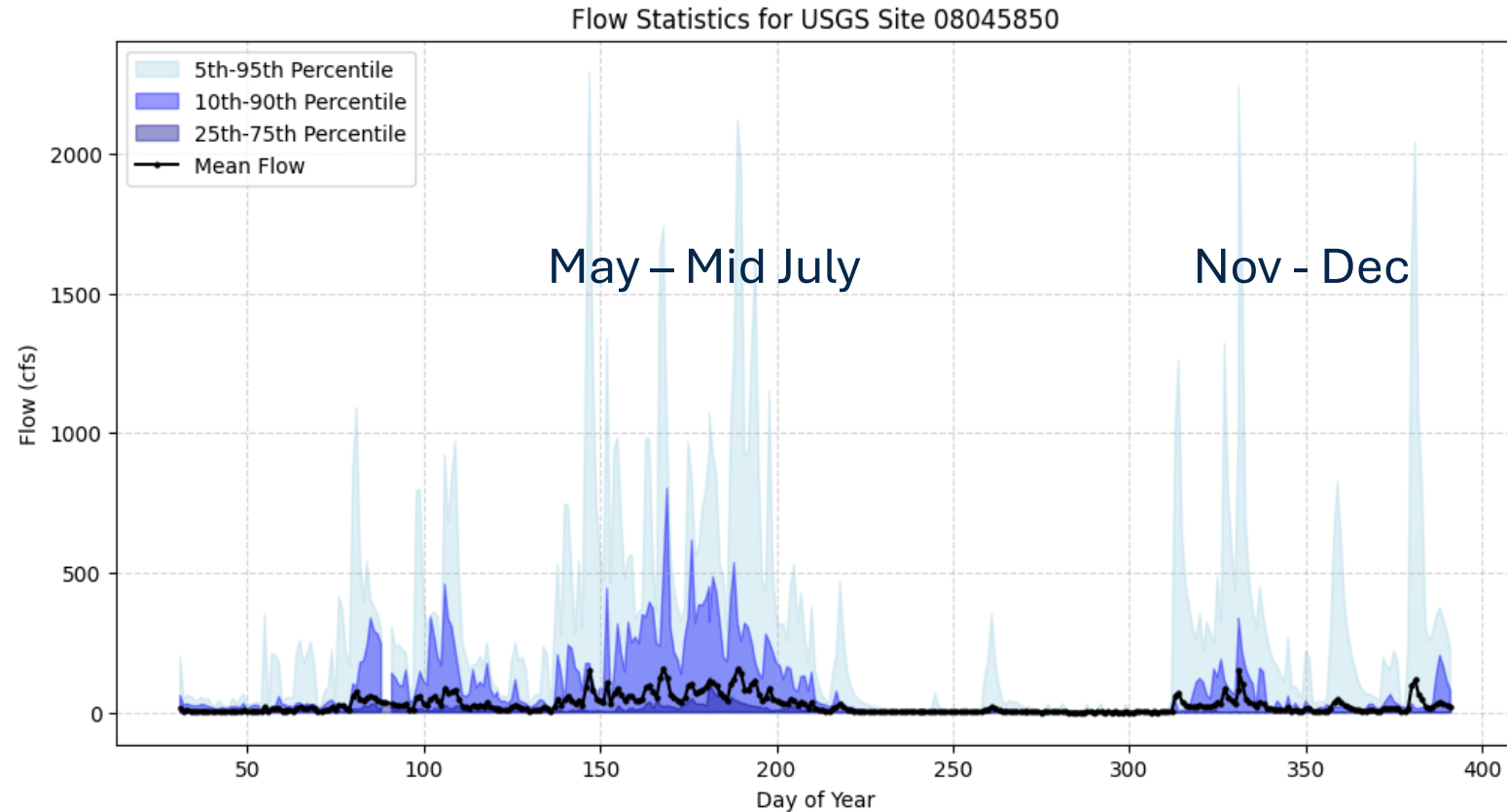
Hazard Data

Observations

- Precipitation
- Streamflow
- Lake Levels
- Crowd sourced Data

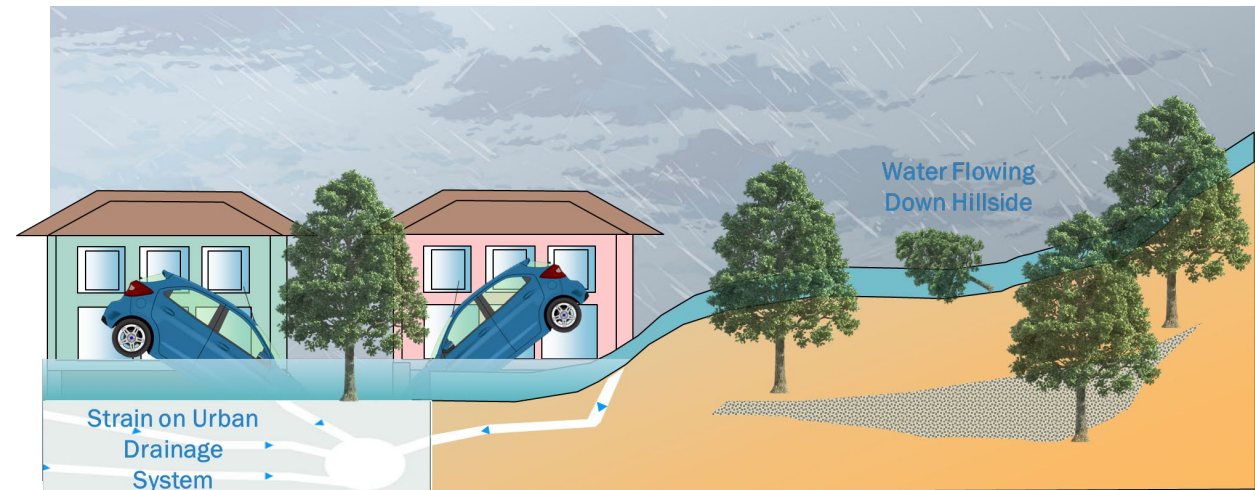
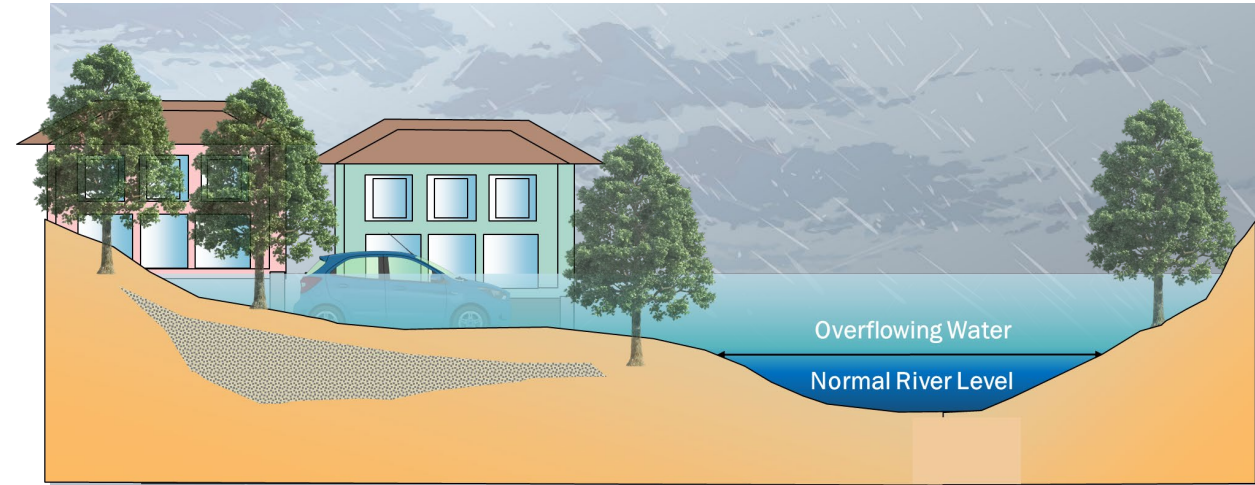
Forecasts

- Models
- Partners



Flood Hazards

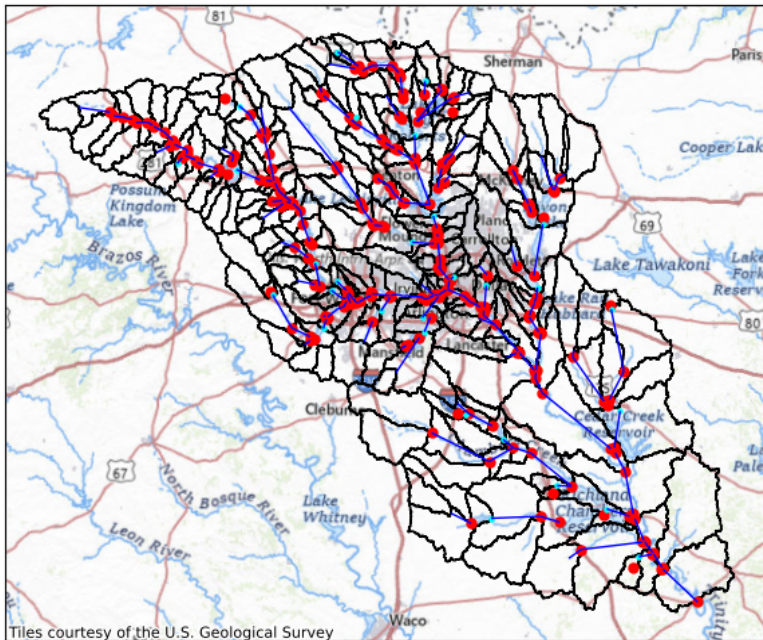
- **Fluvial** (Riverine): Streamflow coming up and over the riverbanks onto roadways and into communities.
- **Pluvial** (Rainfall): Precipitation falling so rapidly stormwater infrastructure is overwhelmed, flooding roads and communities.



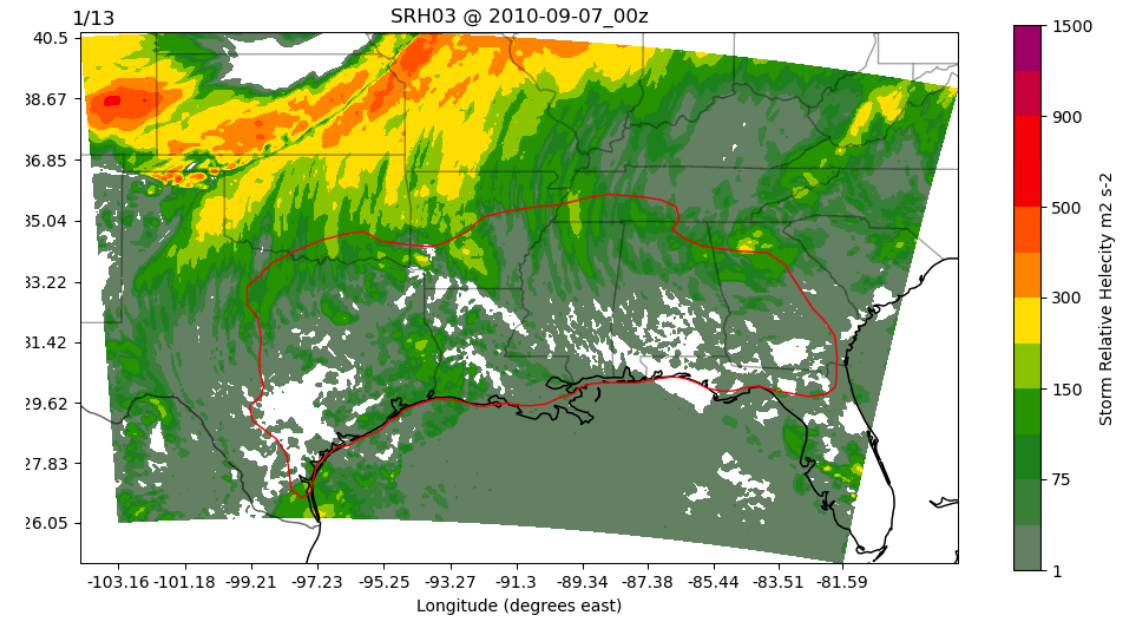
Hydro-Met Models

(Flood Drivers: How much water and when)

- **Fluvial:** HEC-HMS & National Water Model



- **Pluvial:** Quantitative Precipitation Forecasts & Estimates



Meteorological Forecasts

(The largest driver of uncertainty and latency)

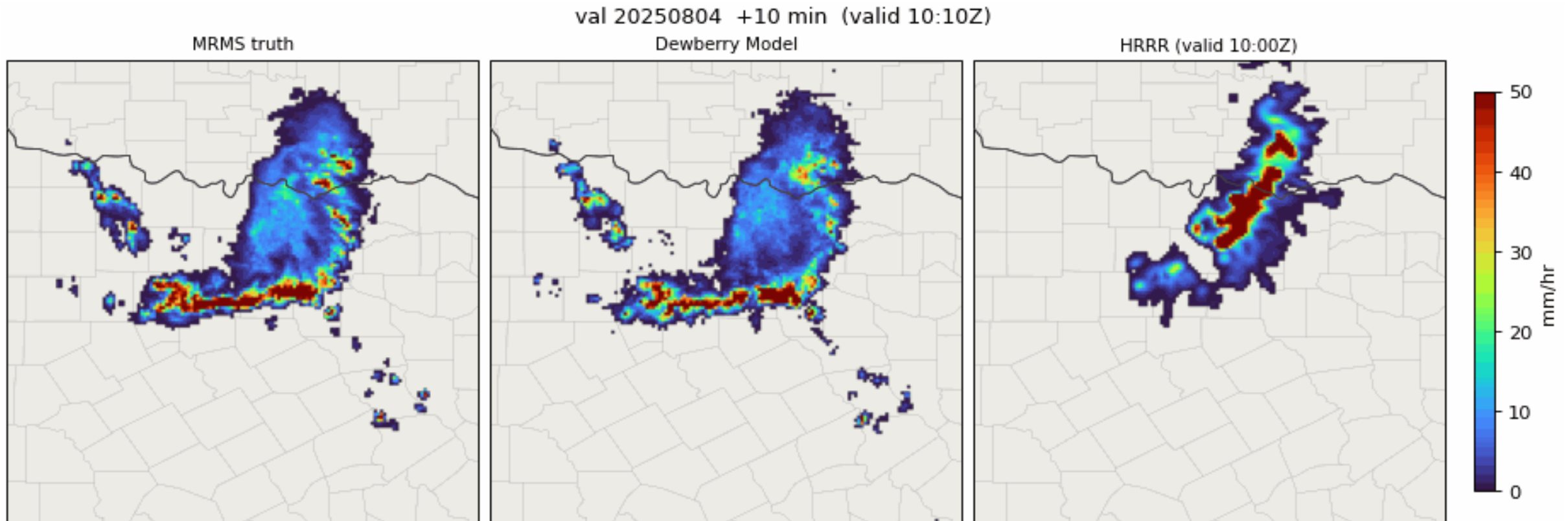
Traditional NWP Models

Vs.

Regional AI Models

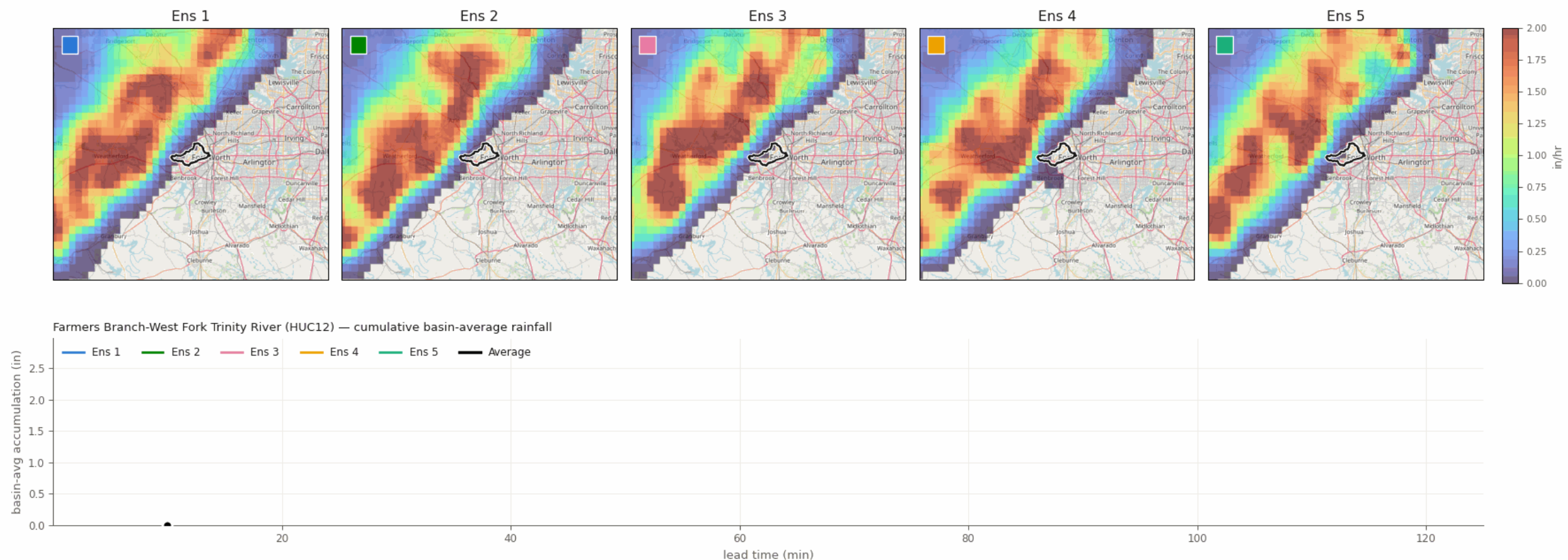
- | | | |
|---|---|---|
| • Strong at 4–18-hour forecasts | → | • Optimized for 0–3-hour nowcasting |
| • Forecast generation can take over an hour | → | • Forecasts generated in minutes |
| • Sensitive to imperfect initial conditions | → | • Initialized from real radar observations |
| • Storms can be misplaced or missed | → | • Improved storm placement and intensity tracking |
| • Limited ensemble runs due to computational cost | → | • Fast, low-cost ensemble forecasting |
| • Spin-up can reduce reliability in earliest forecast hours | → | • Designed to fill the short-term forecasting gap |

Meteorological Forecasts: AI



Meteorological Forecasts: Ensembles

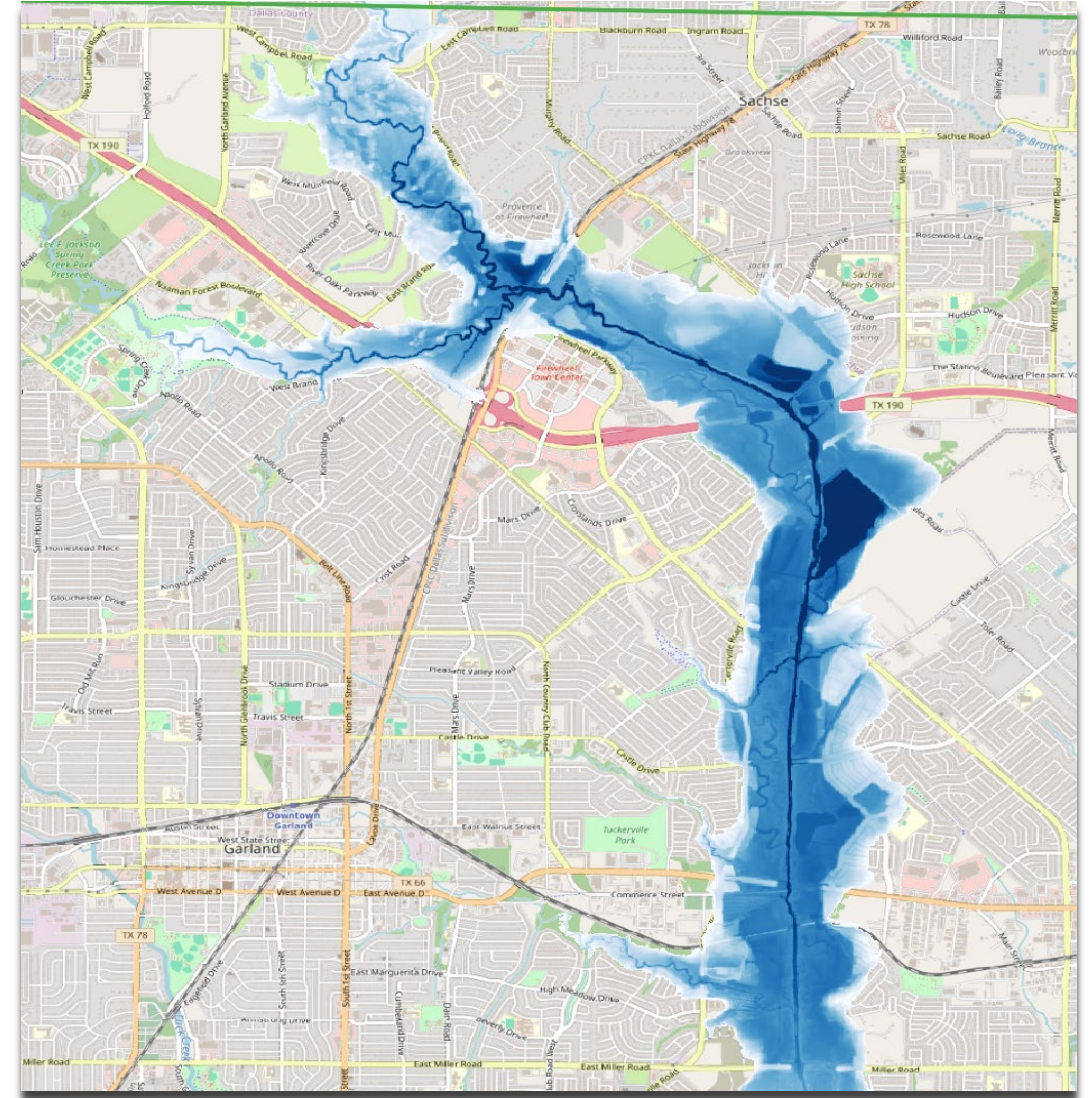
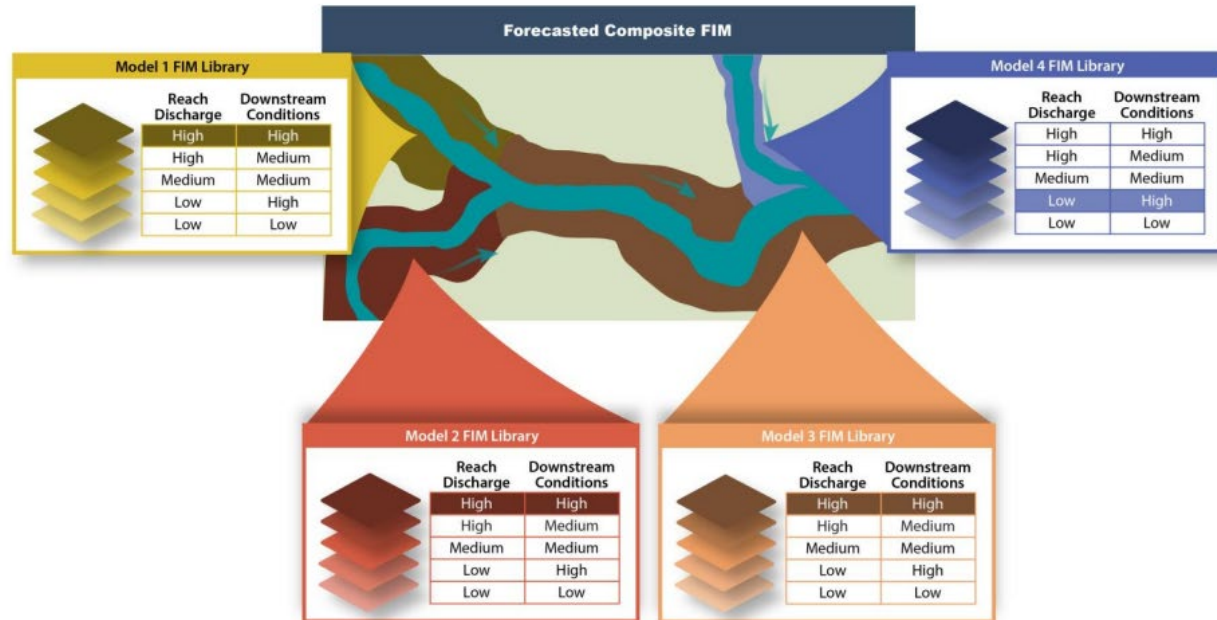
Dewberry Model — 5-member ensemble rain rate — 2024-04-28 init 07:30Z +10 min (valid 07:40Z)



Hydraulic Models

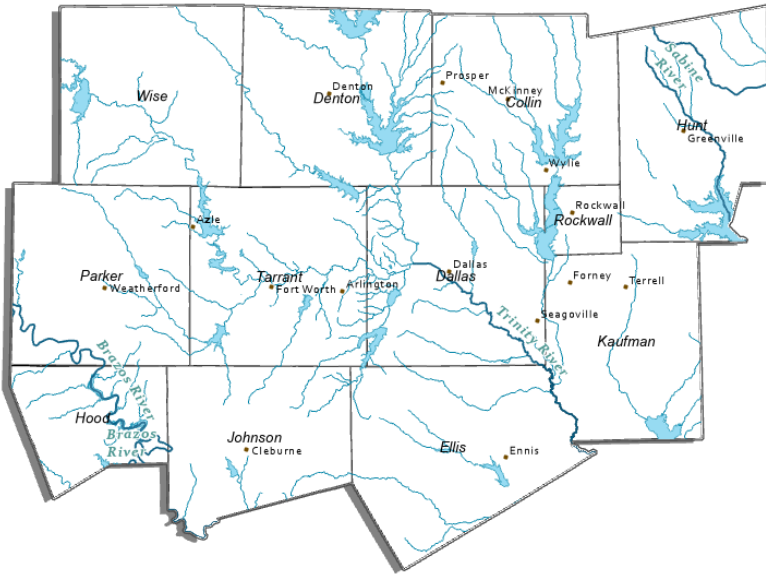
(Impact: How high and where)

Flood Inundation Maps (FIMS)



Operational Realities & Challenges

Reservoirs



Flash Flooding



Forecasting Error

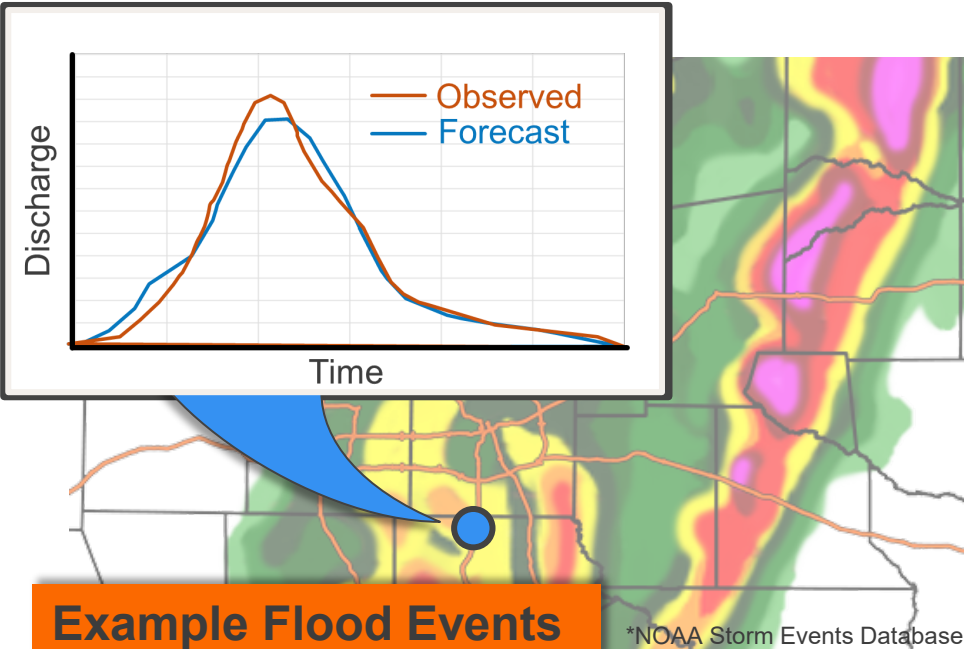
Type 1 (False Positive)

- Messaging fatigue

Type 2 (False Negative)

- Incidents and casualties

Retrospective Analysis



Example Flood Events

Year	Flood Event	Flood Type	Duration	Key Impacts
2022	Aug 21 Dallas Flash Flood	Flash Flood	Short - Medium	Deep water on major arterials
2023	Jun 15–16 North TX Flooding	Flash Flood	Medium	Vehicle-related incidents
2024	May 28–30 Trinity Basin Flood	Flood	Long	Reservoir releases, prolonged closures

Short-Medium (3-12 hr):

- High-intensity flash floods
- Greatest vehicle and rescue risk

Medium (12-24 hr):

- Mesoscale convective-driven rainfall
- Urban + small basin response

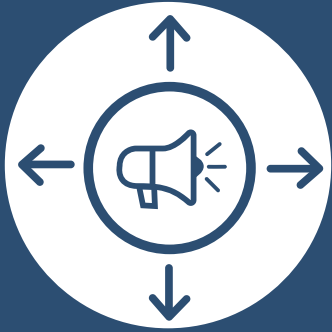
Long (≥24 hr):

- Basin-scale river flooding
- Reservoir operations and prolonged disruption



Continuous stress-testing by running the model against past events to evaluate spatial and temporal accuracy.

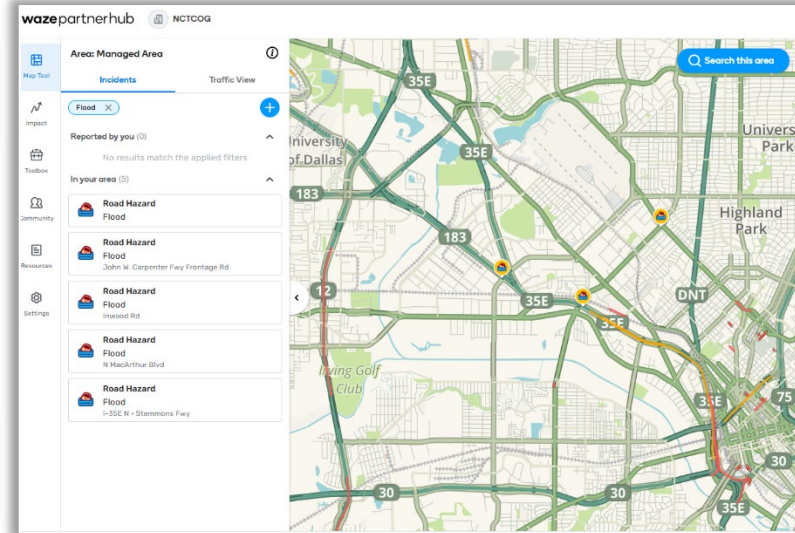
Dissemination



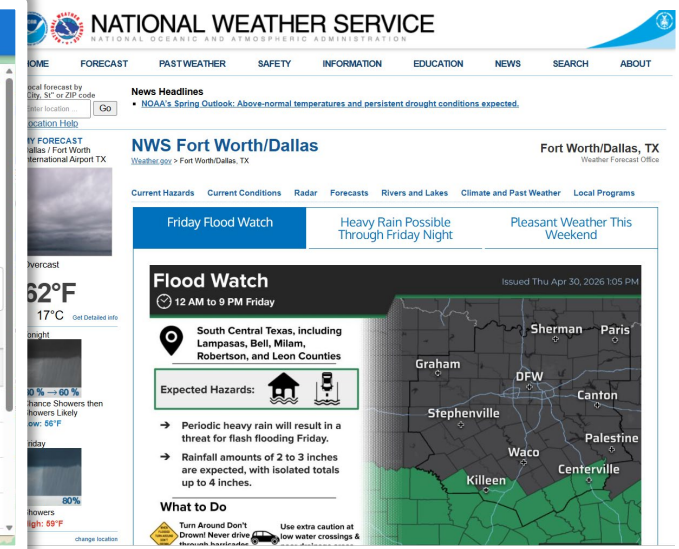
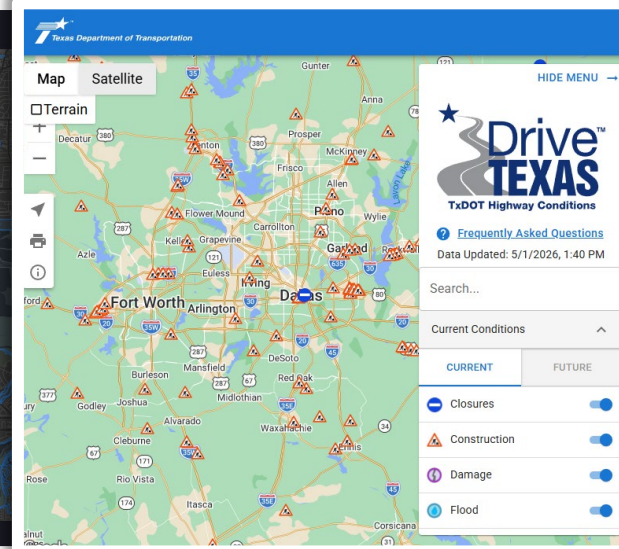
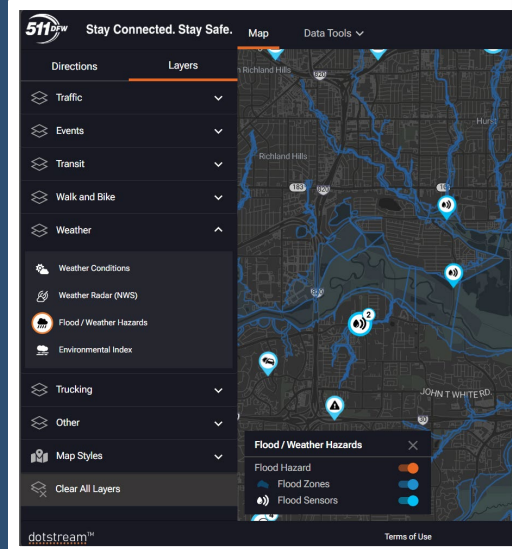
Public Navigation
Apps



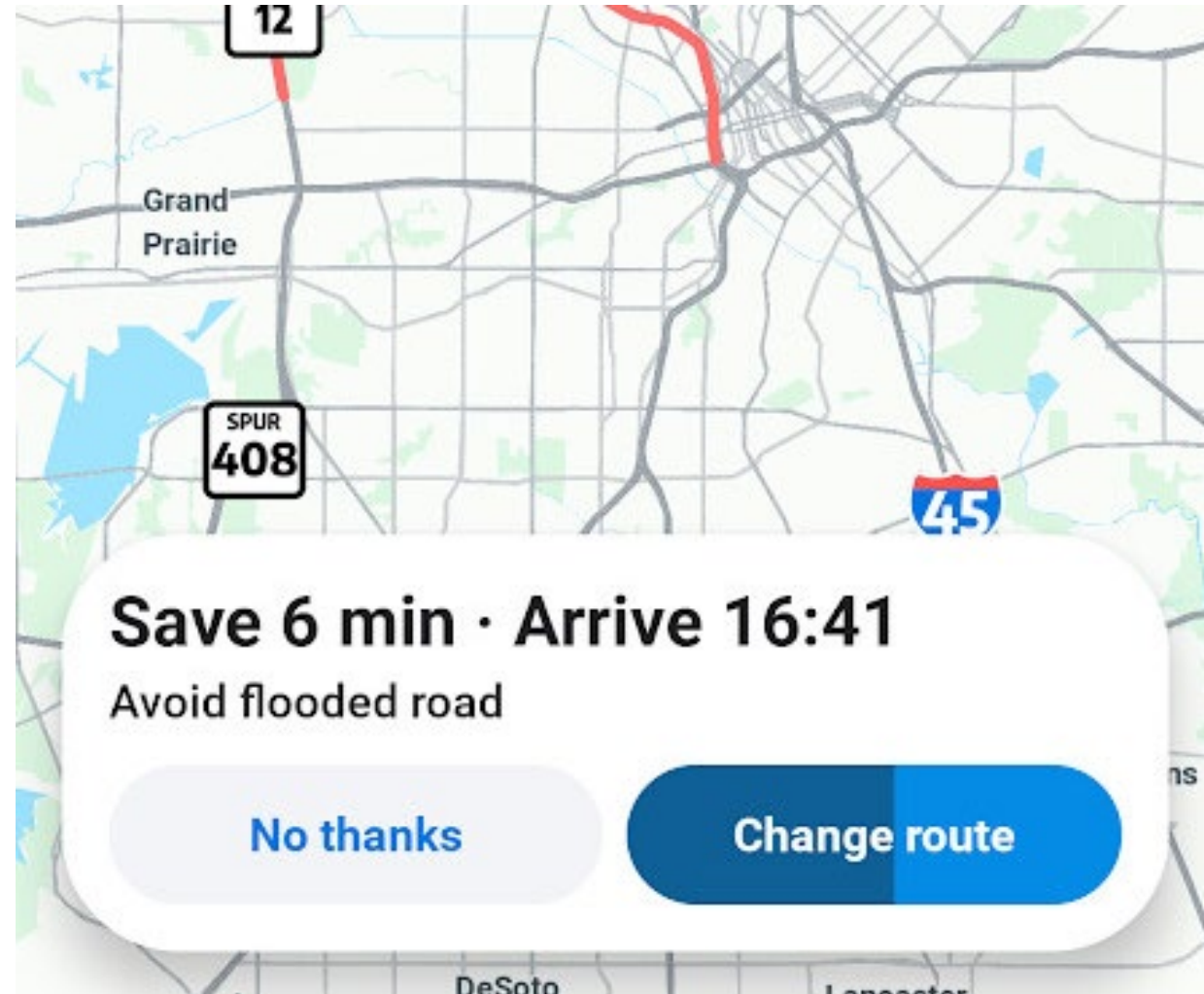
Partners



Publish flood
warning outputs to
public platforms and
service providers.



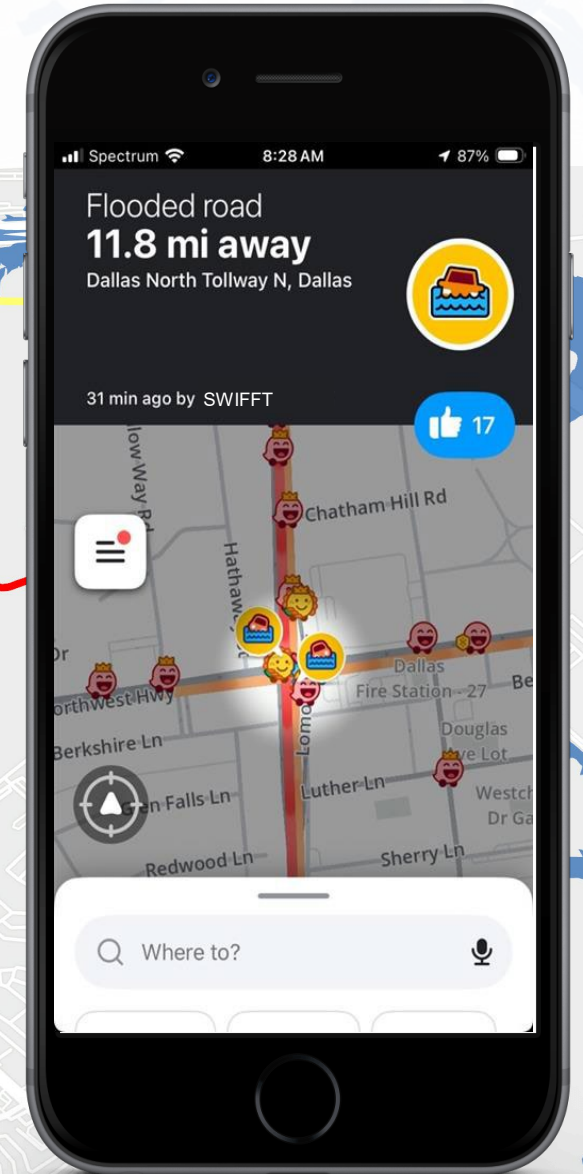
Navigation Apps “Close” the Road



Waze Flood Validation



SWIFFT forecasted flooded road hazards will be validated in real-time using Waze's published feed service.



Bottom Line:



You are Important to SWIFFT's Success

- Local knowledge !
- Where are your problem assets?
- Flash flooding: where does it always flood?
- Do you operate a Ready-Set-Go model?



Take the SWIFFT Survey!

Questions



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Project Manager, Dewberry
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2028 Trinity Regional Flood Plan: Opportunities to submit Flood Mitigation/Management Actions (FMXs)

Stephanie Griffin, PE, CFM, F.ASCE

Halff



REGIONAL FLOOD PLANNING GROUP

NCTCOG Floodplain Seminar

September 3, 2026

Opportunity to Submit Flood Mitigation Actions

Stephanie Griffin, PE, CFM, F.ASCE, Technical Consultant
Project Manager

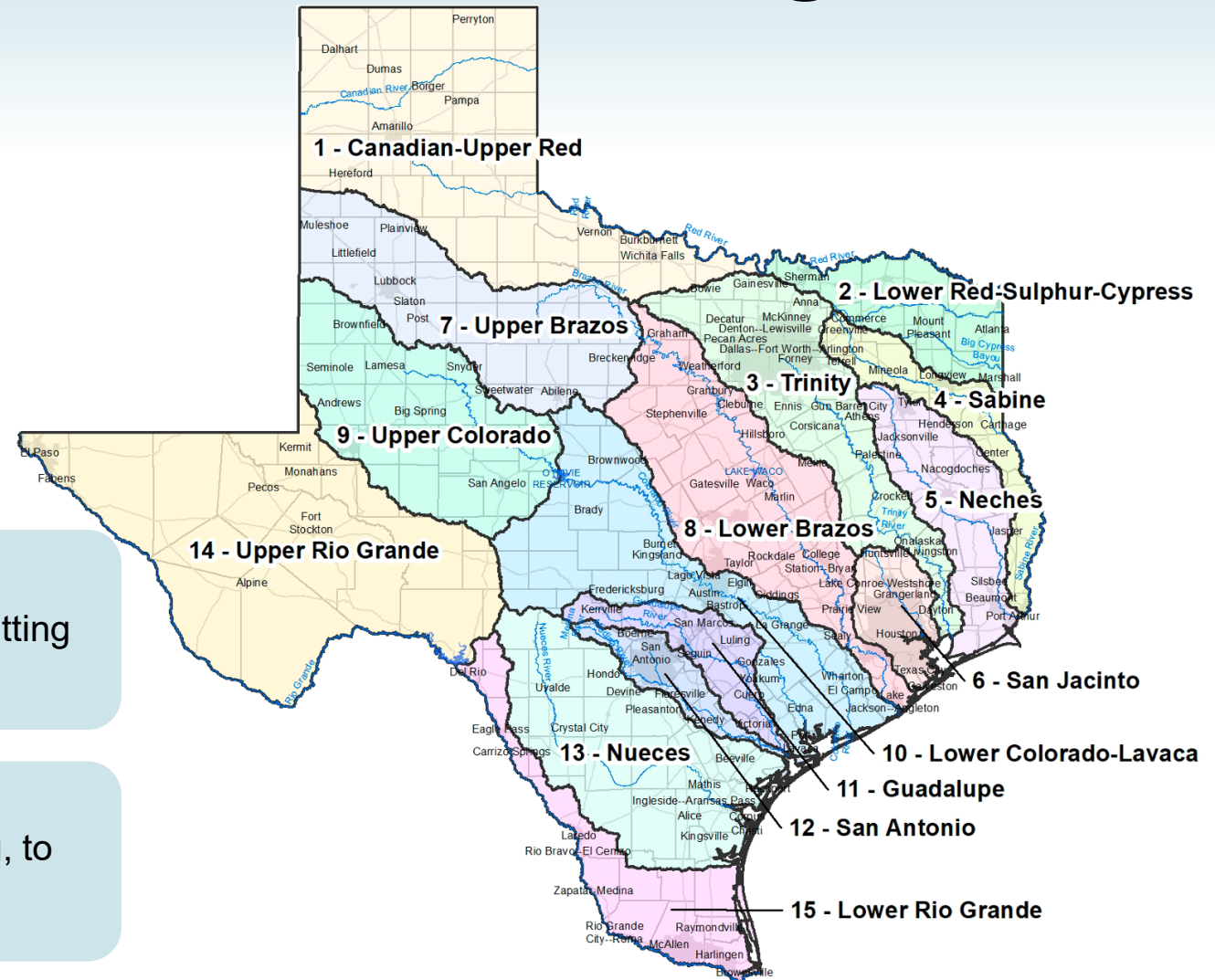


History of Regional Flood Planning

Texas Water Development Board (TWDB) created 15 regional flood planning groups in 2020, following 2019 State Legislation establishing the Regional Flood Planning process.

Each group is tasked with creating a Regional Flood Plan, updating and submitting it to the TWDB on a five-year cycle

Members represent 12 interest categories potentially affected by flooding, to provide a diversity of perspectives



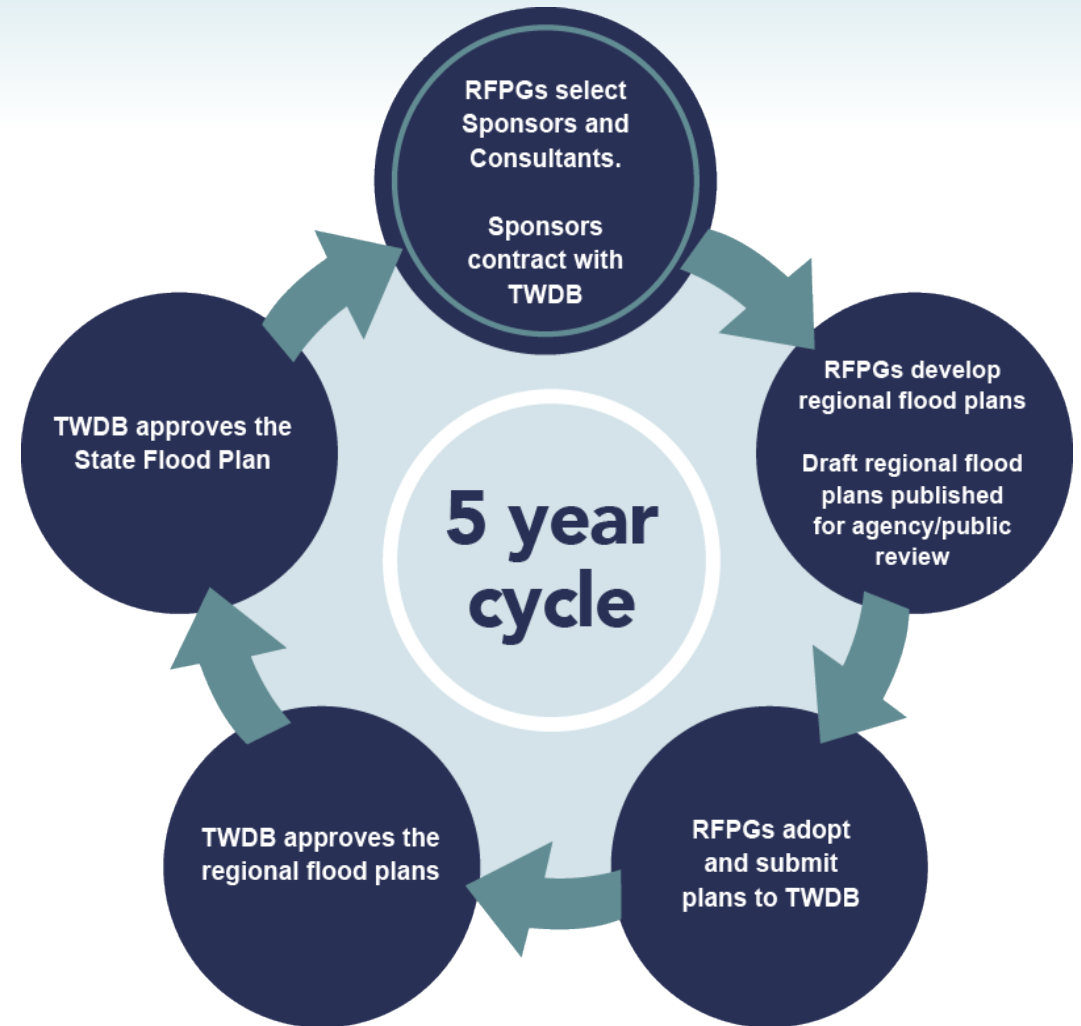
- Stretches from Gainesville in Cooke County to Anahuac in Chambers County (all or parts of 38 counties)
- Includes approximately 47,000 stream miles, draining a total land area of nearly 18,000 square miles
- One of the state's **most populated flood planning areas**, with an estimated 9,453,000 residents (expected to have 96 communities with populations over 25,000 by 2060)
- More than 3.4 million business establishments, 228,000 acres of parkland and preserves, and more than 30 major lakes and reservoirs

<https://trinityrfpg.org/>



Regional Flood Planning Cycle

- First planning cycle began in Fall 2020
- 2023 Regional Flood Plans were submitted to the TWDB in January 2023
- 2023 Regional Flood Plan amendments were submitted to the TWDB in July 2023
- All 15 Regional Flood Plans were synthesized into Texas' first-ever State Flood Plan in August 2024
- Second 5-year flood planning cycle began in Spring 2024
- 2028 Regional Flood Plans are due to TWDB in January 2028



Goal of Flood Planning



Regional Flood Planning Acronyms



**FLOOD MANAGEMENT
EVALUATION (FME)**

Analyses or studies



**FLOOD MITIGATION
PROJECT (FMP)**

“Actual” projects



**FLOOD MANAGEMENT
STRATEGIES (FMS)**

Anything else!

What's in a Regional Flood Plan?

Developing each new Regional Flood Plan requires completion of **11 primary tasks**:

1. Describe the planning region
2. Document flood exposure and vulnerability (existing and future)
3. List floodplain management practices and goals
4. Develop a method for choosing flood studies/evaluations (FMEs), projects (FMPs), and strategies (FMSs)
5. Make final recommendations of FMEs, FMPs, and FMSs
6. Assess impacts of the plan
7. Document flood response and recovery activities
8. Make recommendations to the legislative and administrative bodies
9. Survey financing options for recommended solutions
10. Facilitate public outreach and input
11. Document implementation and compare the new and previous RFPs



We are here



**Draft regional flood plans
due:
May 26, 2027**

**Final regional flood plans
due:
January 10, 2028**



You asked, the RFPG listened!

- Original solicitation closed in September 2025
 - FMEs for RFPG to advance have been decided
 - FMEs for TWDB to advance have been decided
- Multiple inquiries about next opportunity to submit FMXs
- RFPG reopened FMX solicitation
 - Sponsor has **ALL** TWDB-required elements (tables, maps, models, geodatabase, cost estimate, BCA, project description, RFPG goal(s) met, no negative impacts, etc.)
 - Consultant team promotes the opportunity via email, social media, etc.
 - Deadline to submit **ALL** TWDB-required elements: **October 30, 2026***

*Complete FMPs will be considered in the order in which they are received depending on time and budget.

Eligible Planning Studies (FMEs)



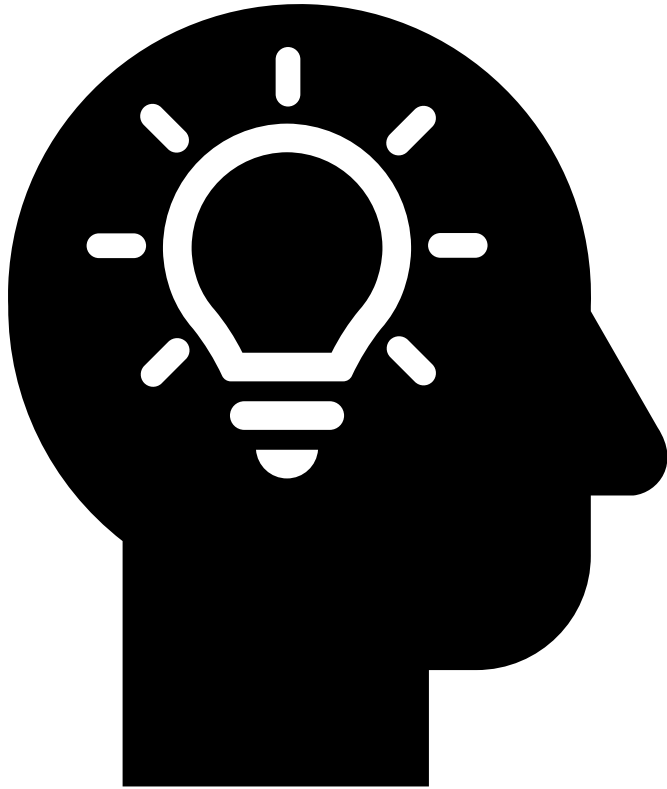
- Preliminary engineering (up to 30% design for FMEs)
- Feasibility assessments
- Development of regional projects
- Obtaining regulatory approvals
- Hydraulic and hydrologic studies
- Alternative analyses
- Watershed assessments
- Dam hazard assessments
- Planning activities

Eligible Construction Projects (FMPs)



- Drainage infrastructure
- Flood control and flood mitigation infrastructure
- Retention / detention ponds
- Sustainable infrastructure
- Erosion control
- Dams and levees
- Property acquisitions
- Nature-based solutions
- Flood infrastructure that creates a new source of water supply

Non-Structural and Other Eligible Strategies (FMSs)



- Conservation easements
- Living shorelines
- Protection and restoration of riparian corridors, floodplains, coastal areas, and wetlands
- Development/update of local flood regulations
- Flood early warning systems
- Stream gages
- Educational campaigns
- Buyouts



Submittal Details Available

www.trinityrfpg.org

Deadline to submit **ALL** required elements: **October 30, 2026**



Flood Infrastructure Fund (FIF)

- Established by Texas Legislature and managed by TWDB
- Financial assistance for a broad range of drainage, flood mitigation, and flood control projects and categorized between FME, FMP and FMS for eligible applicants (cities, counties and districts or authorities created under Article III, Section 52, or Article XVI, Section 59 of the Texas Constitution).
- **Key eligibility requirement:** requested **action must be recommended** in the approved regional flood plan

Flood Infrastructure Fund (FIF)

- Available funding varies
 - \$375M available for FY 2024-25
 - \$312M available for FY 2026-27
- Two-step application process
 - Submit abridged application
 - Submit full application (when invited)



Upcoming Activities

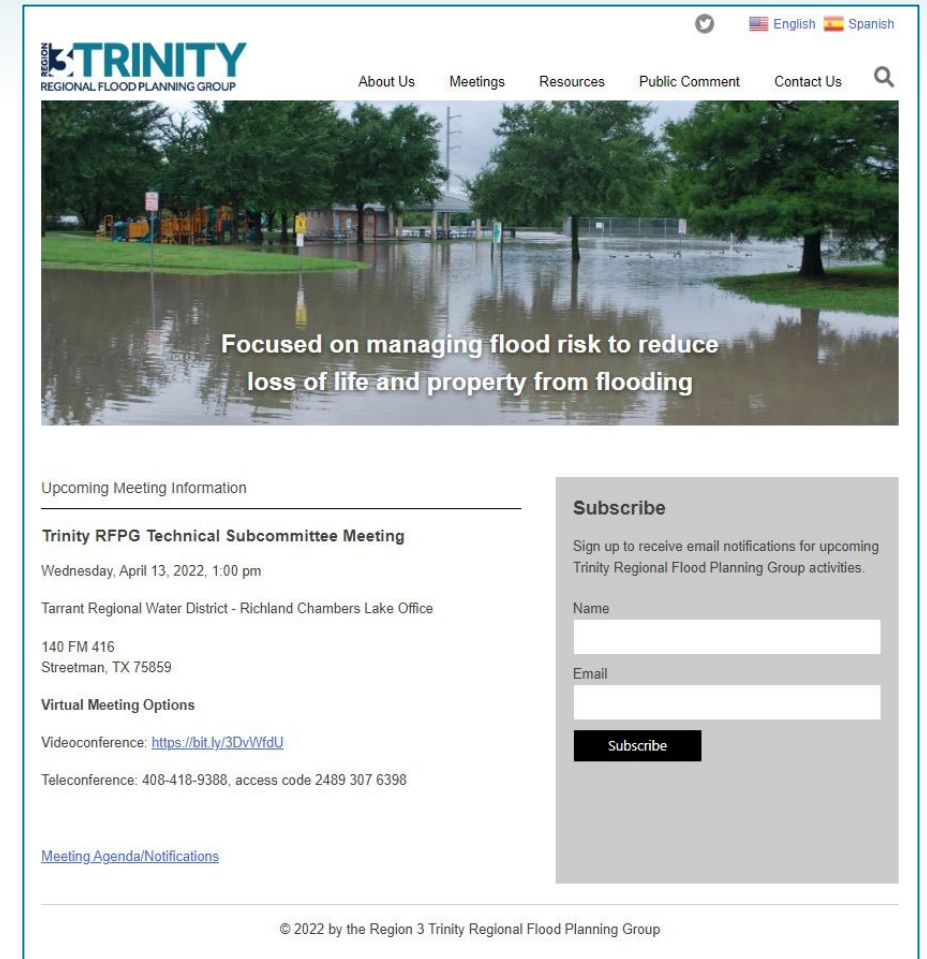


Sept 2026	• TWDB Releases FY 2026-27 Flood Intended Use Plan <i>Submit abridged FIF applications for funding!</i>
Oct 30, 2026	• Deadline to submit complete FMX requests to RFPG for consideration in 2028 Flood Plan
Nov 19, 2026	• Next RFPG Meeting <i>Open to the public; virtual option available. Meetings occur quarterly.</i>
Summer 2027	• Draft 2028 Trinity Regional Flood Plan available for public comment <i>Provide input for your community!</i>

How to Stay Informed and Get Involved

How to stay informed

- **Visit our award-winning website:**
www.trinityrfpg.org
 - Info about the regional flood planning effort
 - Meeting notices and information
 - Meeting materials for review and input
 - Draft and final plan documents
 - Glossary and other helpful resources/links
- **Sign up** through the “**Subscribe**” area of website homepage to join our e-mail list and get timely e-notifications about Trinity RFPG activities
- **Follow us** on social media
 - **X:** @TrinityRFPG
 - **LinkedIn:** Trinity Regional Flood Planning Group



The screenshot shows the homepage of the Trinity Regional Flood Planning Group. At the top, there is a navigation bar with links for 'About Us', 'Meetings', 'Resources', 'Public Comment', and 'Contact Us'. A search icon is also present. The main header features the 'REGION 3 TRINITY' logo and the text 'REGIONAL FLOOD PLANNING GROUP'. Below the header is a large banner image of a flooded area with a playground in the background. Overlaid on the banner is the text: 'Focused on managing flood risk to reduce loss of life and property from flooding'. Below the banner, there is a section titled 'Upcoming Meeting Information' which lists a 'Trinity RFPG Technical Subcommittee Meeting' on Wednesday, April 13, 2022, at 1:00 pm, at the Tarrant Regional Water District - Richland Chambers Lake Office. It also provides virtual meeting options, including a videoconference link and a teleconference number. To the right of this section is a 'Subscribe' form with fields for 'Name' and 'Email', and a 'Subscribe' button. At the bottom of the page, there is a copyright notice: '© 2022 by the Region 3 Trinity Regional Flood Planning Group'.

The background is a deep blue underwater scene with light rays filtering down from the surface. A thin, light blue horizontal bar is positioned above the 'Thank you!' text.

Thank you!

Stephanie Griffin
817-813-5704
sgriffin@halff.com

www.trinityrfpg.org

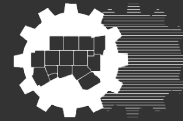
info@trinityrfpg.org

Break

Transportation and Stormwater Infrastructure (TSI) Study

Matt Lepinski, PE

Castellon Consulting



North Central Texas
Council of Governments

Integrated Transportation and Stormwater Infrastructure (TSI) Project

**Combined Floodplain Seminar for Elected Officials
and Trinity River COMMON VISION Steering
Committee Meeting
September 3, 2026 – Arlington, TX**

Presented by:

Matt Lepinski, P.E. – Castellon Consulting



Funded by the Texas General Land Office,
Community Development Block Grant,
Disaster Recovery Program.



Also Funded by the Texas Water Development Board
and Texas Department of Transportation.



Historic events led to improvements in flood control infrastructure during the last century. New needs are developing in this century...



Fort Worth, May 1949

Rhome, May 2015

Courtesy: Tarrant Regional Water District (TRWD)

TSI Study Objectives

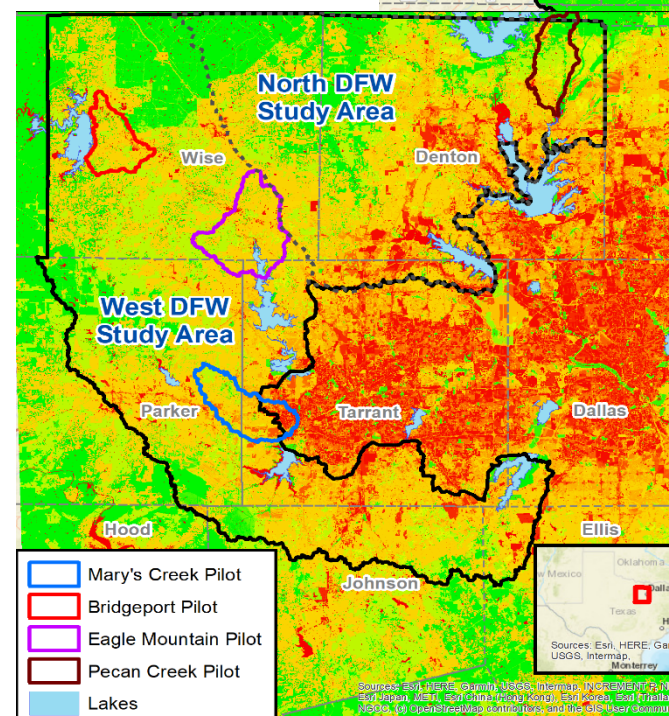
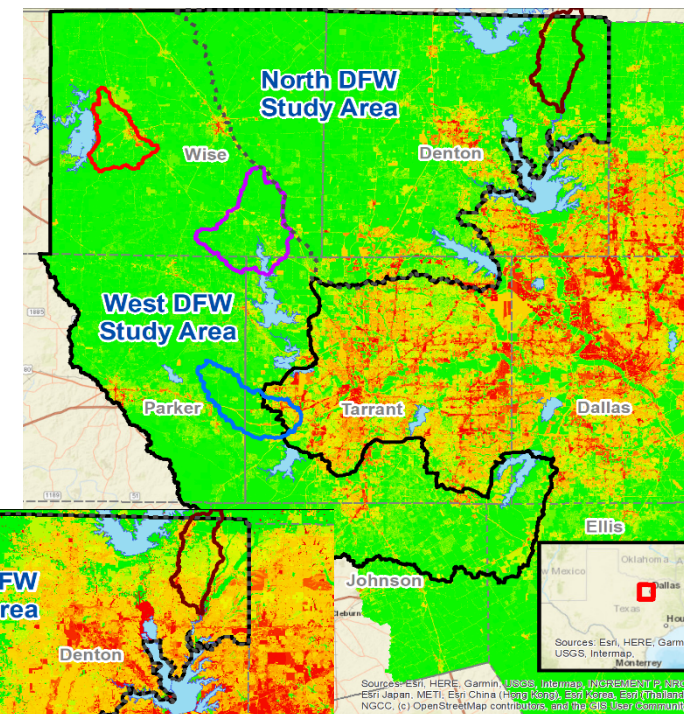
\$10+ million comprehensive planning study

- Proactive planning
- Stormwater, environmental, and transportation infrastructure integration
- Safety of residents, property, and infrastructure
- State-of-the-art flood hazard area models
- Flood warning system framework
- Innovative infrastructure, nature-based solutions, and regulatory approach resources
- Tools, literature, and data

Expected completion:

- Fall 2026

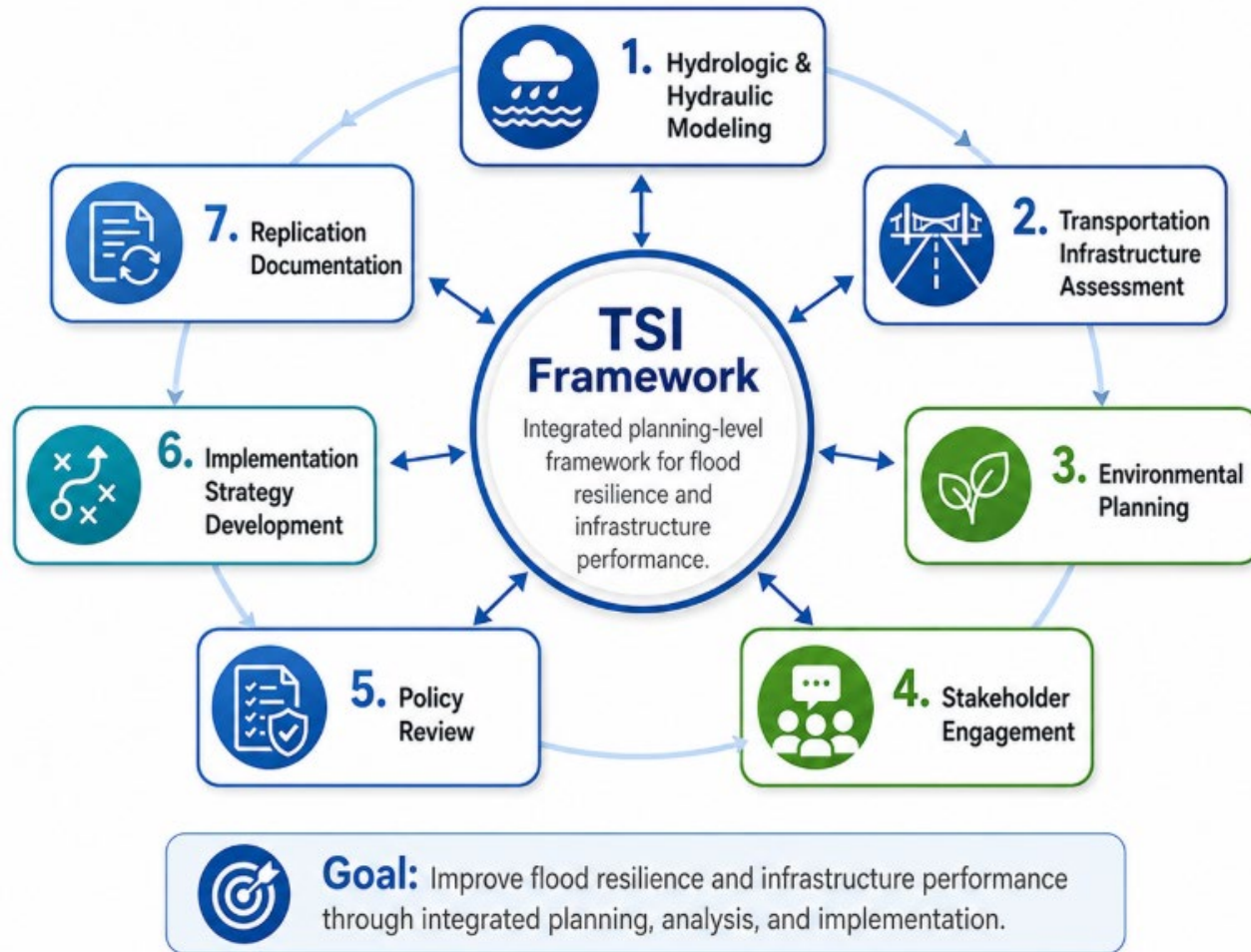
6.4% Impervious (2020)



35.2% Impervious (2070)

TSI Overview & Study Partners

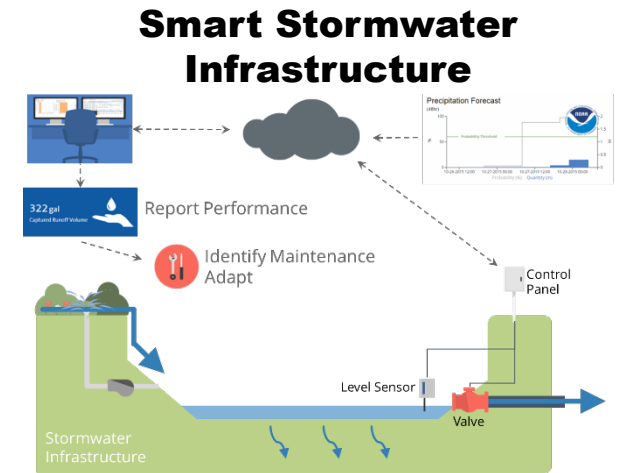
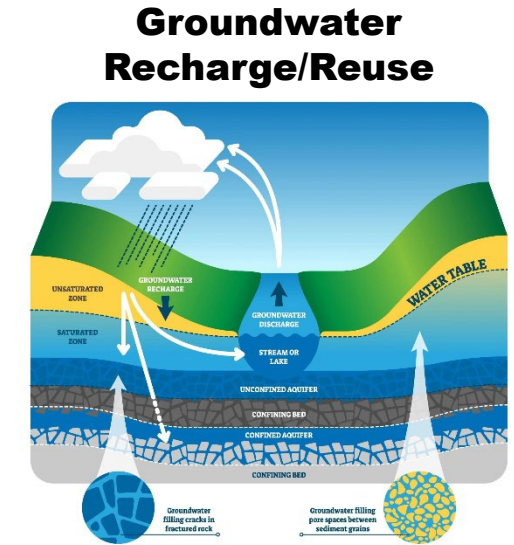
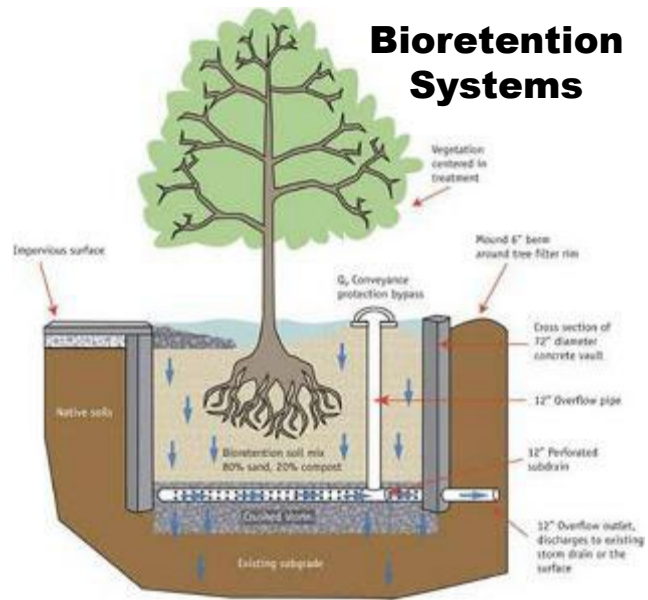
TSI Framework



Consultant Partners:

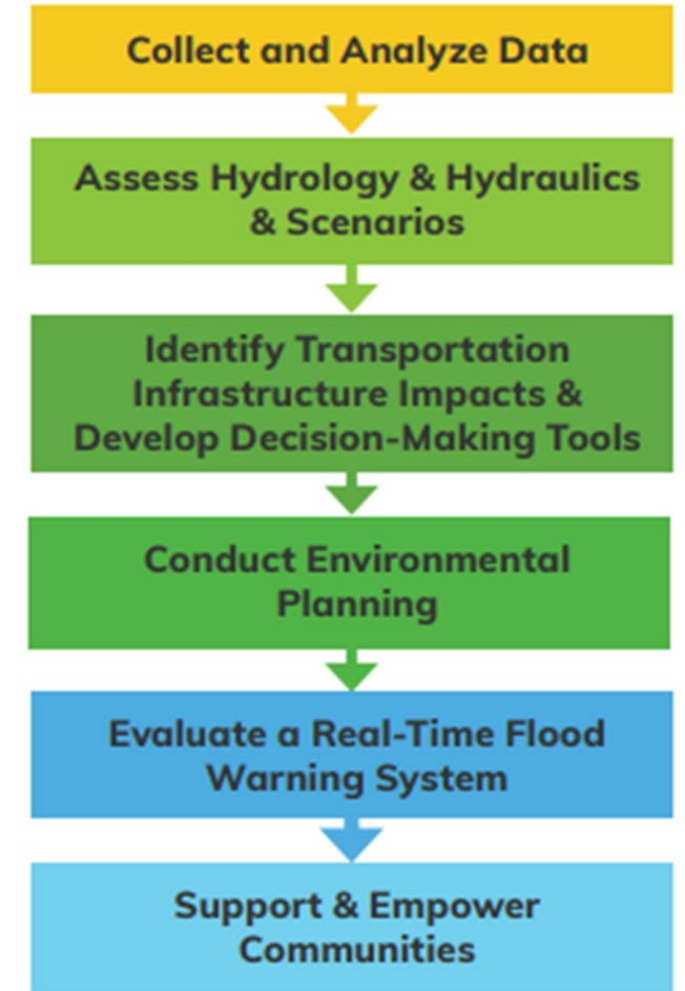
- Freese and Nichols, Inc.
- Halff Associates, Inc.
- Highland Economics

TSI Integration – Menu of Options to Address Flooding



Menu of Options – Categories

- Hydrology and Hydraulic (H&H) Modeling Enhancements
- Flood Control and Green Stormwater Infrastructure (GSI)/Nature-Based Solutions (NBS) Prioritization
- Alternatives Analysis
 - Optimization Process
 - Detailed Projects
 - No Action Evaluation
- Flood Early Warning Systems (FEWS) Planning
- Funding Opportunities
- Policy Recommendations



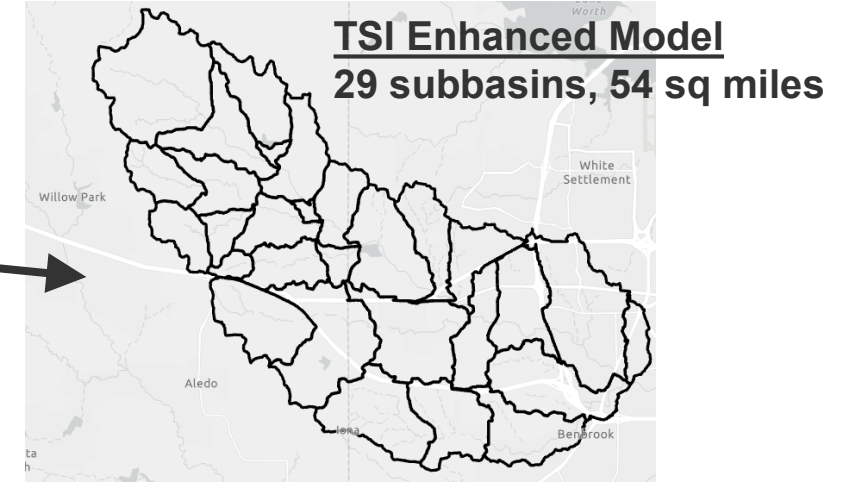
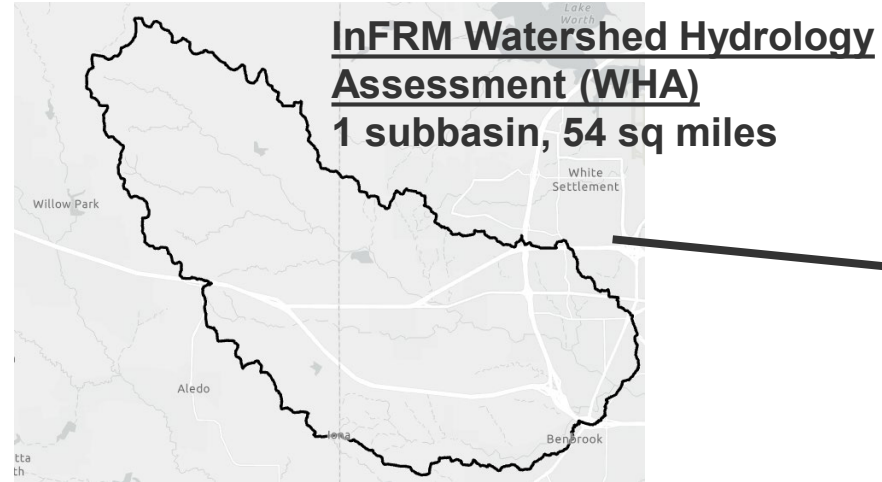
Menu of Options: H&H Model Enhancements

Available H&H datasets are being leveraged and enhanced

Hydrology

Enhancements:

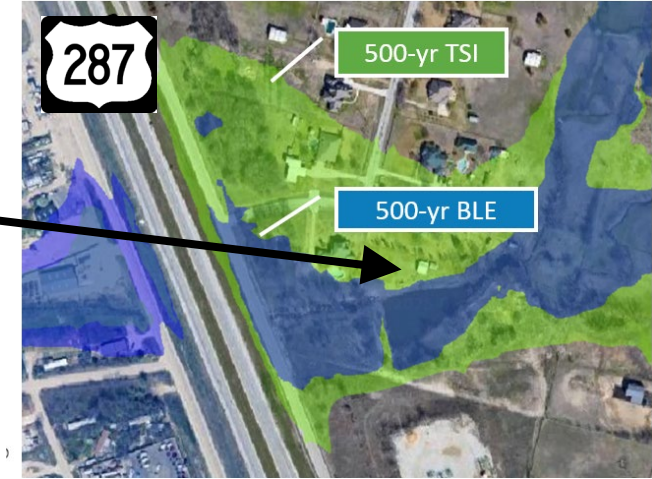
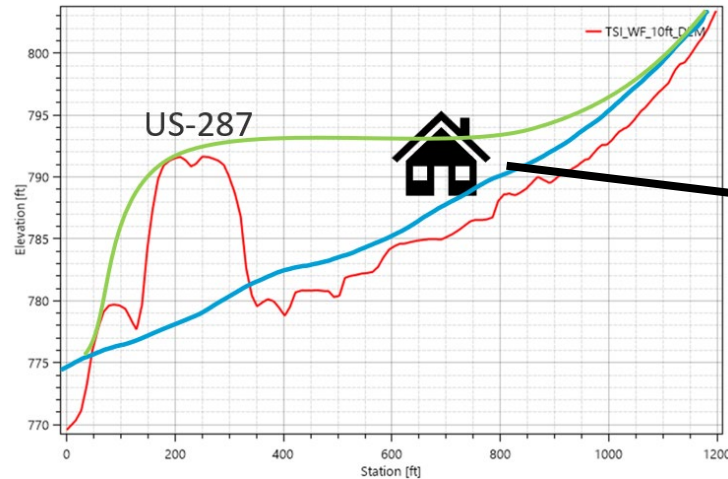
- Additional subbasins
- Future land use (2070)
- Future valley storage



Hydraulic

Enhancements:

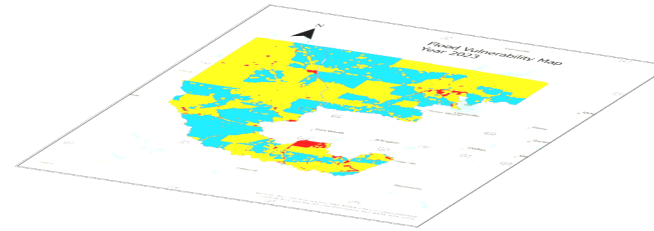
- Adding TxDOT bridges
- Future discharges
- Other enhancements



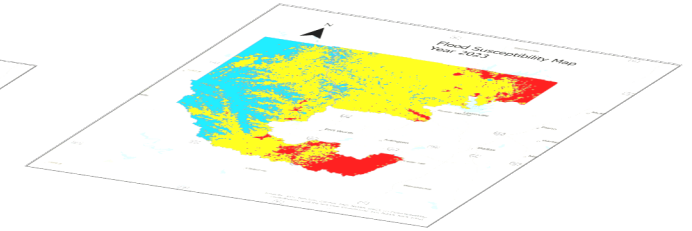
Menu of Options: Flood Control & GSI/NBS Prioritization

- Includes four condition factor categories (*social, environmental, institutional, and transportation*)
- Aids development of a GSI/NBS suitability index for flood mitigation:
 - ▣ Which areas should be prioritized for GSI/NBS to reduce regional flood risk?
 - ▣ How can GSI/NBS be designed/modelled to achieve a target performance?
 - ▣ What is the efficiency of applying GSI/NBS at a watershed or community scale?

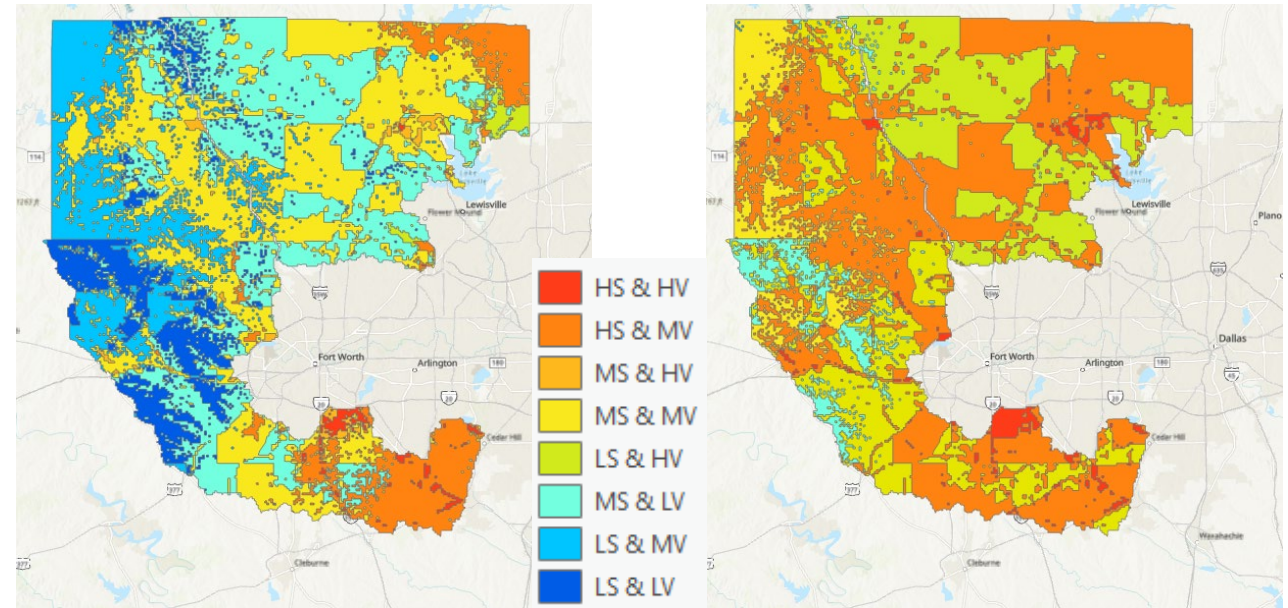
Flood Vulnerability Map



Flood Susceptibility Map



Flood Control Prioritization Map



2023

2045

Menu of Options: Alternative Analysis – Optimization

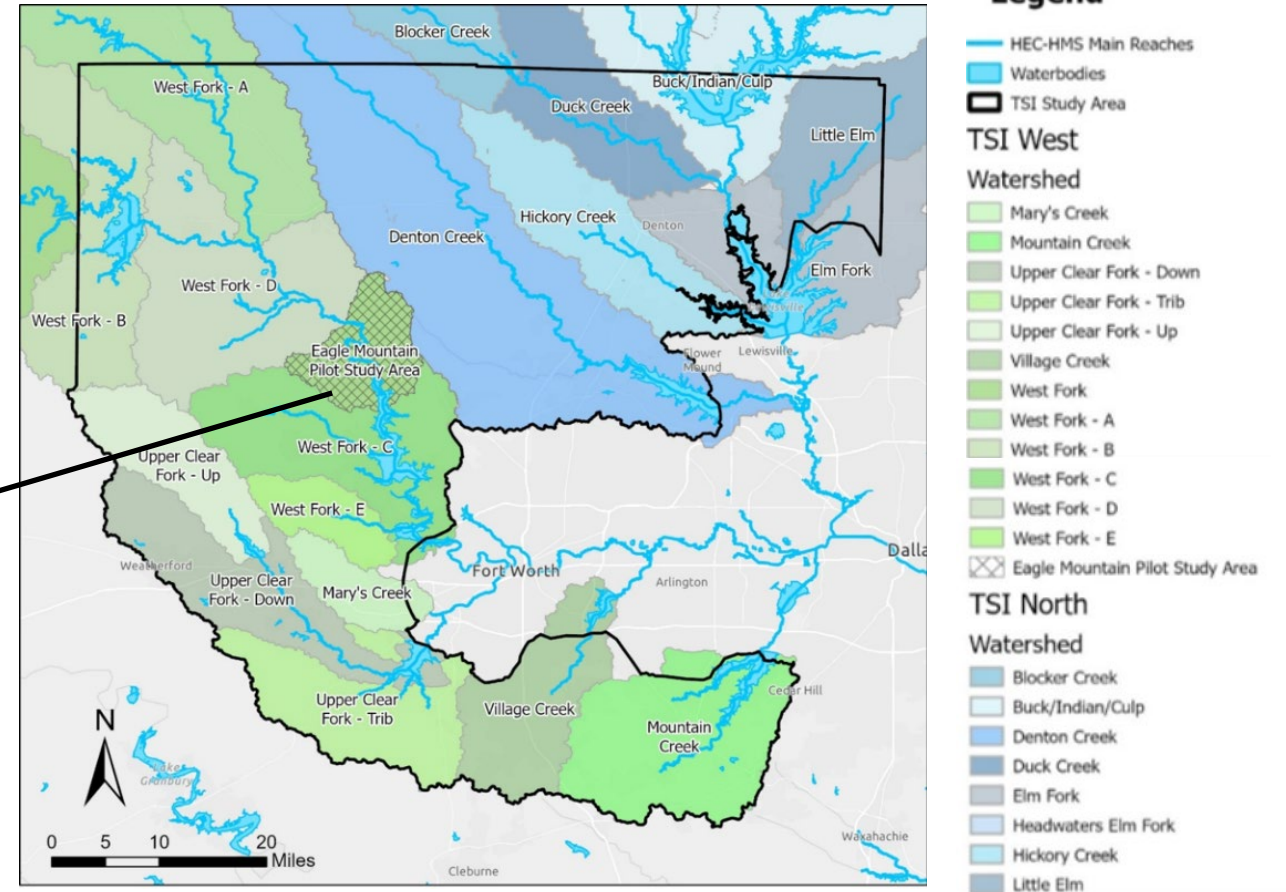
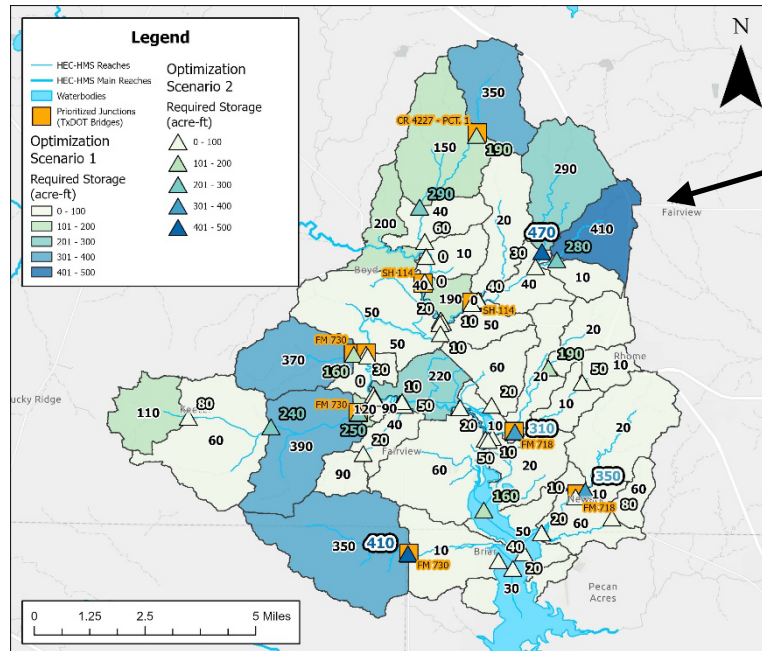
Identify optimal storage volumes at specific locations to mitigate future peak discharge increases, based on estimated 2020-2070 land use change effects on impervious cover and valley storage loss

■ Scenario 1

➤ **Subbasin**
(local)

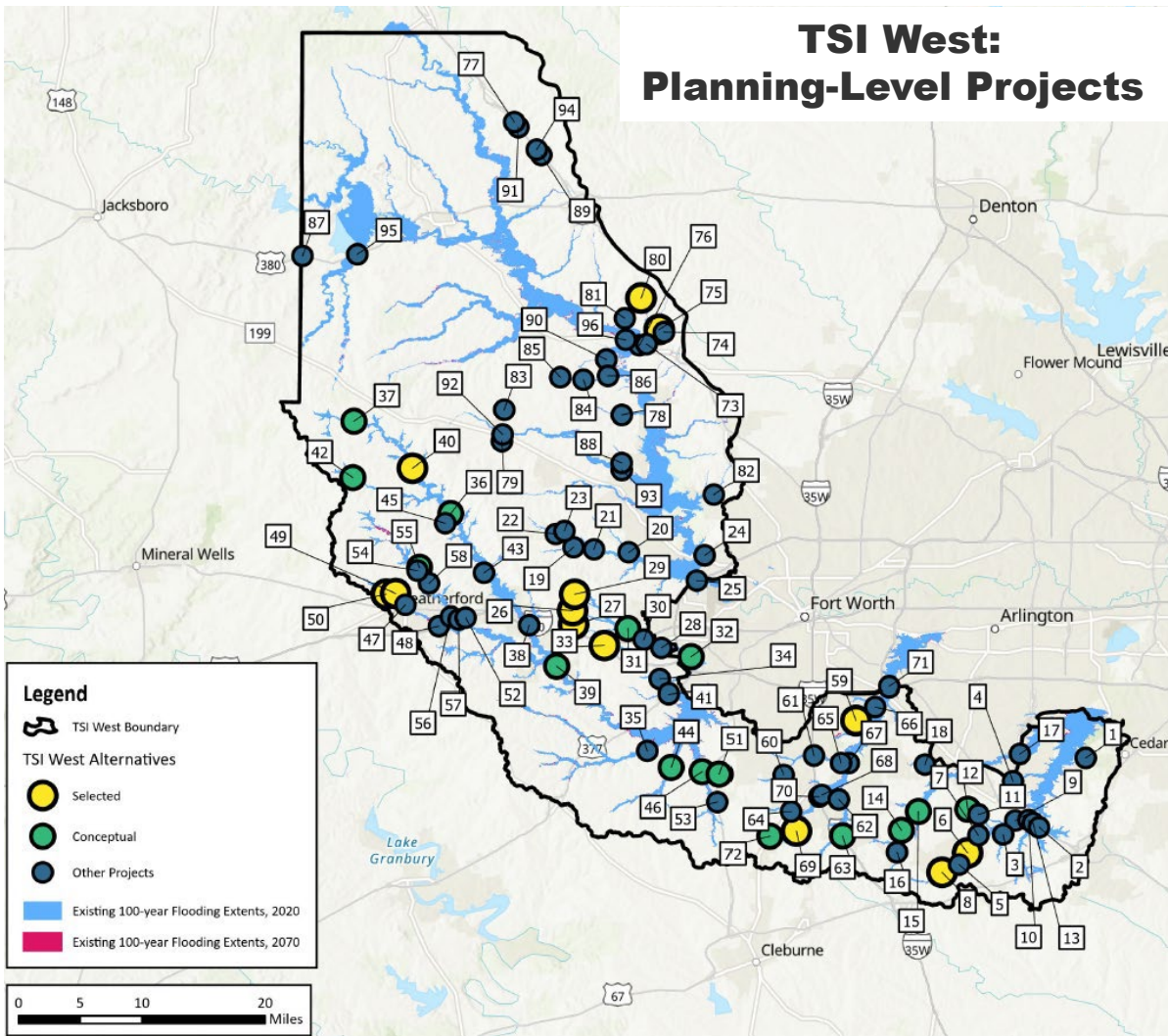
■ Scenario 2

➤ **Junction**
(regional)



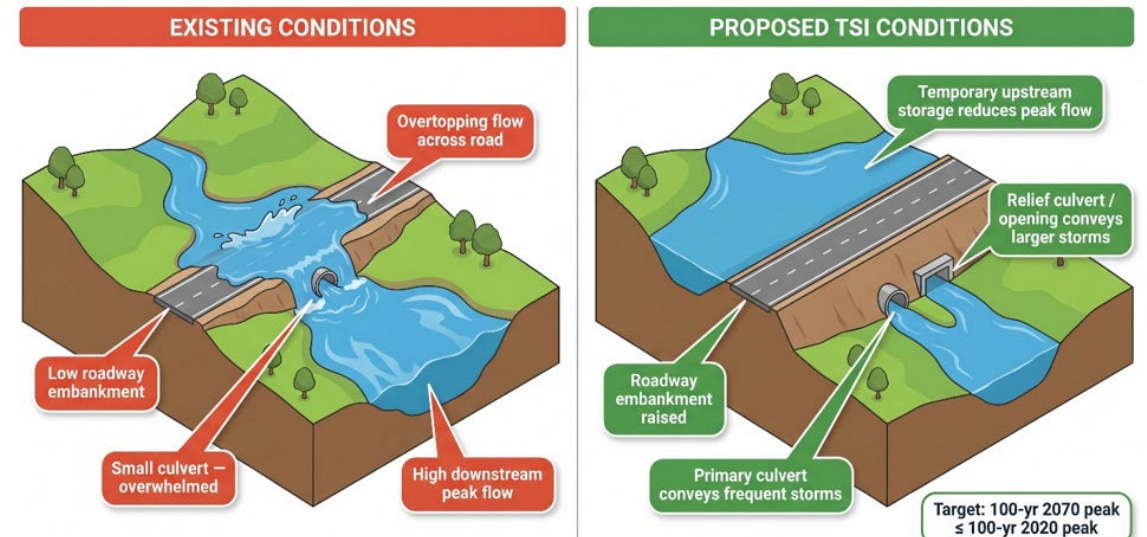
Detailed Projects

TSI West: Planning-Level Projects



Watershed / Modeling Area	Alternative Locations	General Types of Locations Represented
Eagle Mountain / Lake Worth (LAWO)	24	Road crossings of Blue Creek, Deep Creek, Watson Creek, West Fork, & other tributaries
Upper Clear Fork Trinity River (UCFT)	24	Road crossings of Clear Fork, Rock Creek, Town Creek, Willow Creek, & other tributaries
West Fork Trinity River (WEST)	7	Flood-prone locations & road crossings of Silver Creek, West Fork, & other tributaries
Mary's Creek (MARY)	9	Road crossings of Mary's Creek & tributaries, road exposure points, & buyout opportunities
Village Creek (VICR)	14	Road crossings of Chambers Creek, Deer Creek, Quil Miller Creek, Village Creek, & other tributaries
Mountain Creek / Joe Pool Lake (JOPL)	18	Flood-prone locations & road crossings of Mountain Creek, Walnut Creek, & other tributaries
TOTAL	96	TSI West – Planning-level Alternatives & Project Locations

TSI Roadway Detention Concept



Detailed Project Example – FM 3325 @ Mary's Creek

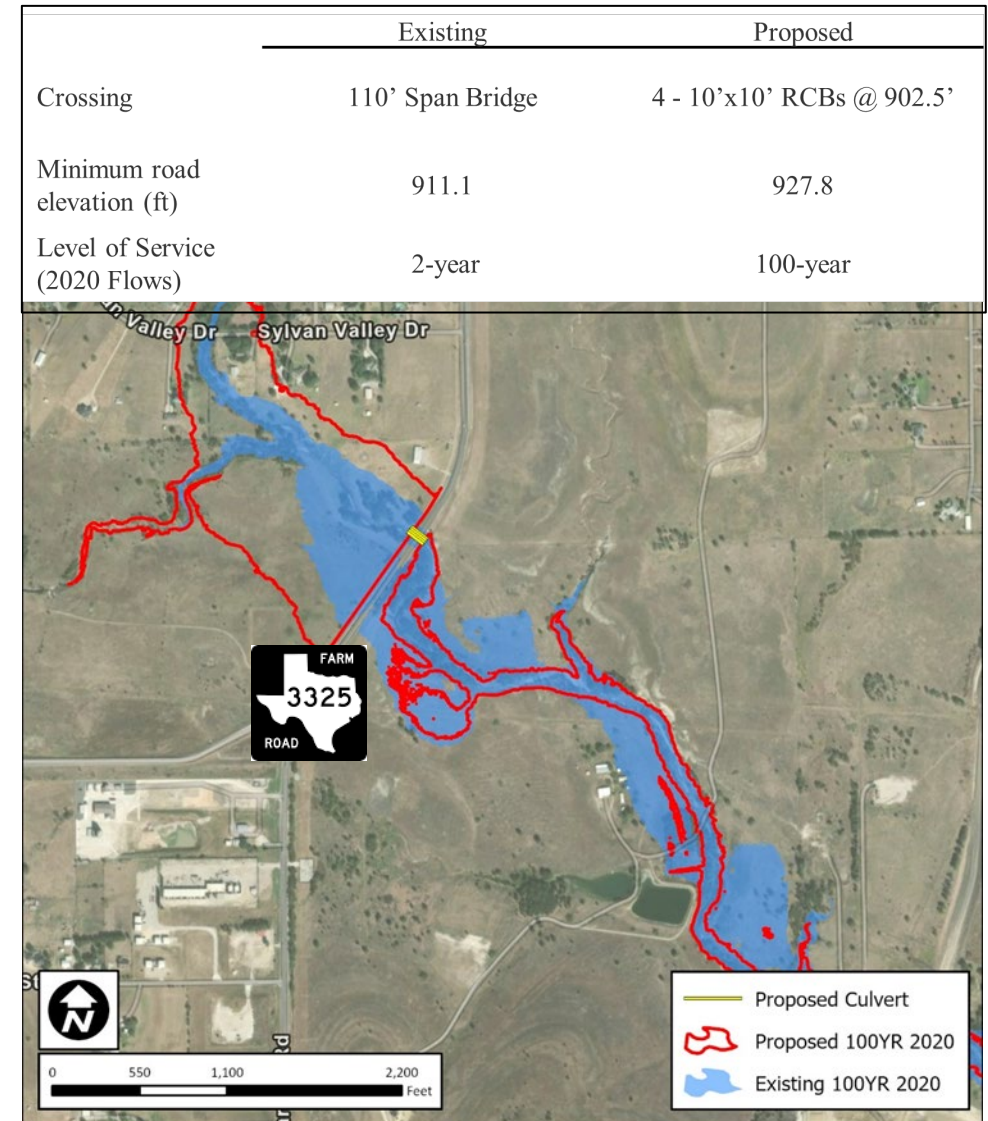
PROJECT NAME	TSI ADDED COST (New Detention & Flow Cuts)	BUYOUT COST (Induced Flooding to Properties / Structures)	TOTAL ADDED COST	MODELED FLOOD DAMAGE REDUCTION (Present Value)	BENEFIT COST RATIO (BCR)
MARY'S CREEK WATERSHED					
FM 3325 @ Mary's Creek	\$2,200,000	\$1,600,000	\$3,800,000	\$14,300,000	3.8

	100-year 2020 Flows		100-year 2070 Flows	
	Existing	Proposed	Existing	Proposed
Peak downstream flow* (cfs)	13,200	8,100	14,100	8,300
Peak headwater* (ft)	919.2	925.4	920.3	925.4
Max depth over roadway* (ft)	1.9	-	2.1	-
Added storage* (ac-ft)	-	237	-	238

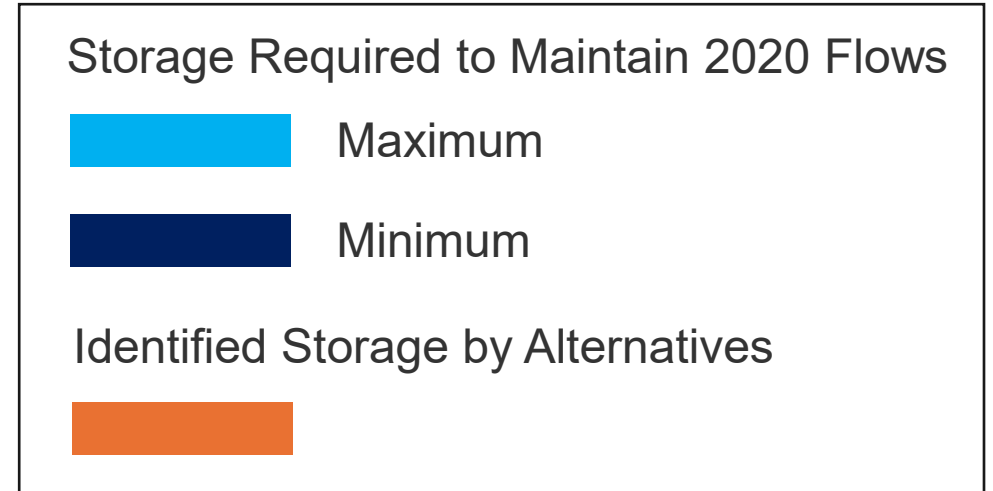
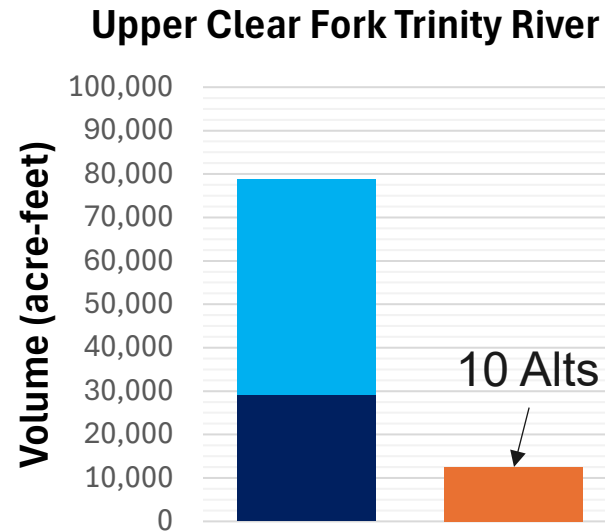
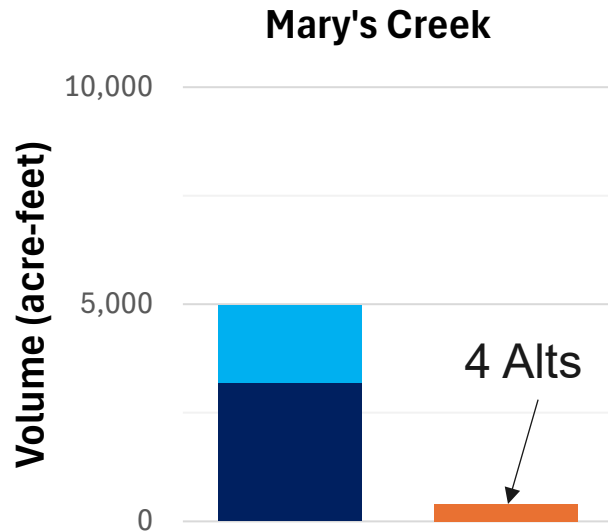
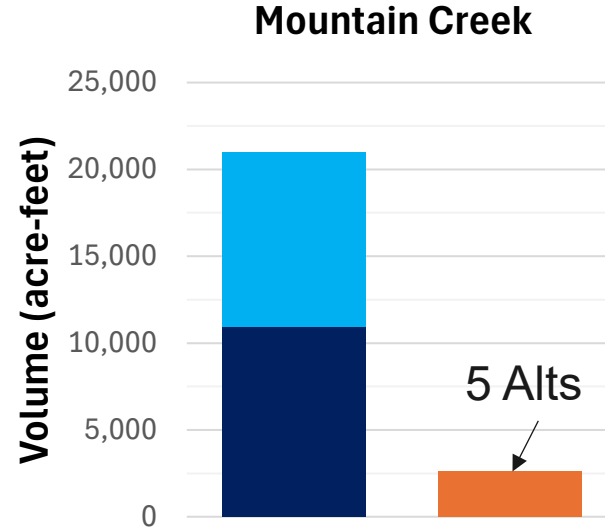
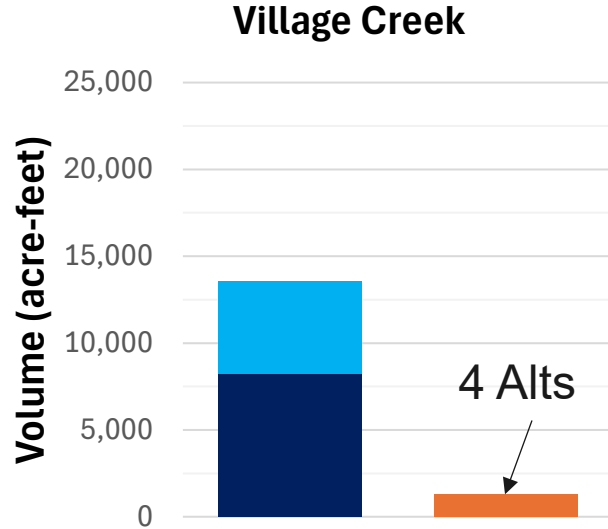
*Rounded values

Project Details:

- Mobility 2050 – Capacity increase from 2-lane rural to 4/6-lane urban divided
- Raise roadway nearly 17 feet for an approximate length of 1,500 feet
- Replace current bridge with multi-barrel culvert system
- Conveyance improves from 2-year to 100-year flood event (*under 2020 flows*)



Storage Results – TSI West



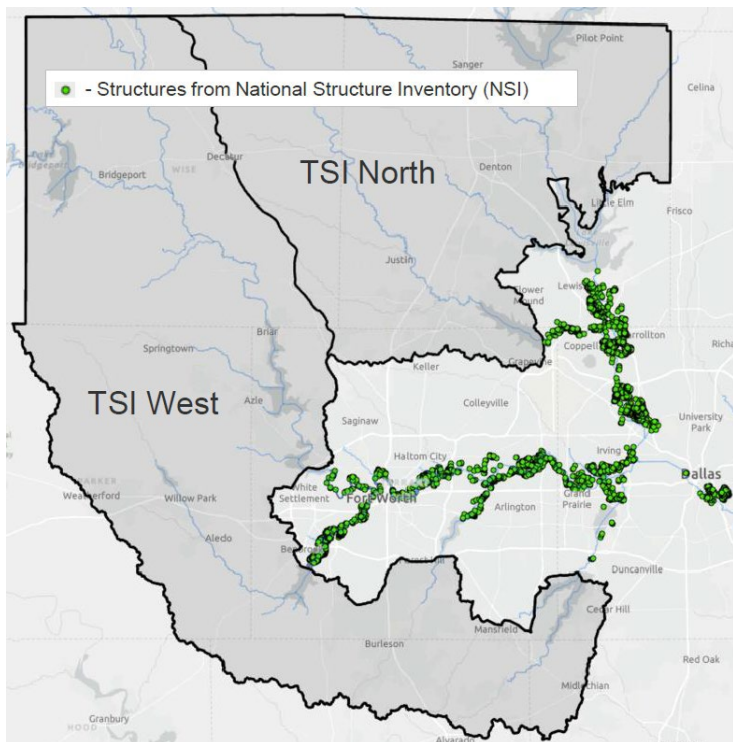
Watershed Storage Using Transportation Detention

STORAGE GOAL – REDUCE 2070 FLOW TO 2020 LEVELS					TOTAL	
Watershed / Study Area (TSI West)	Theoretical Storage Required (acre-ft)	Scenario #1: Local Storage (acre-ft)	Scenario #2: Regional Storage (acre-ft)	Watershed Unit Cost (acre-ft)	Cost Range	Project Range
Village Creek	13,540	9,350	8,210	\$69,000	\$500 Million – \$1 Billion	25 – 40
Mountain Creek	21,000	12,710	10,970	\$71,000	\$750 Million – \$1.5 Billion	21 – 40
Mary's Creek	4,990	3,200	3,300	\$77,000	\$250 Million – \$385 Million	28 – 45
Upper Clear Fork Trinity River	78,900	41,470	29,970	\$16,760	\$500 Million – \$1.3 Billion	23 – 63

KEY FINDINGS:

- Loss of valley storage significantly increases future flood risk. Simply managing new development runoff may be insufficient if floodplain storage is reduced over time.
- TSI roadway detention concept should be pursued, though embankments will be far more cost-effective than excavation.
- With limited locations & high costs for detention in urbanized areas, confining fill to outside of the flood or requiring valley storage impact mitigation, will provide greater flood protection.

No Action – Increased Damage



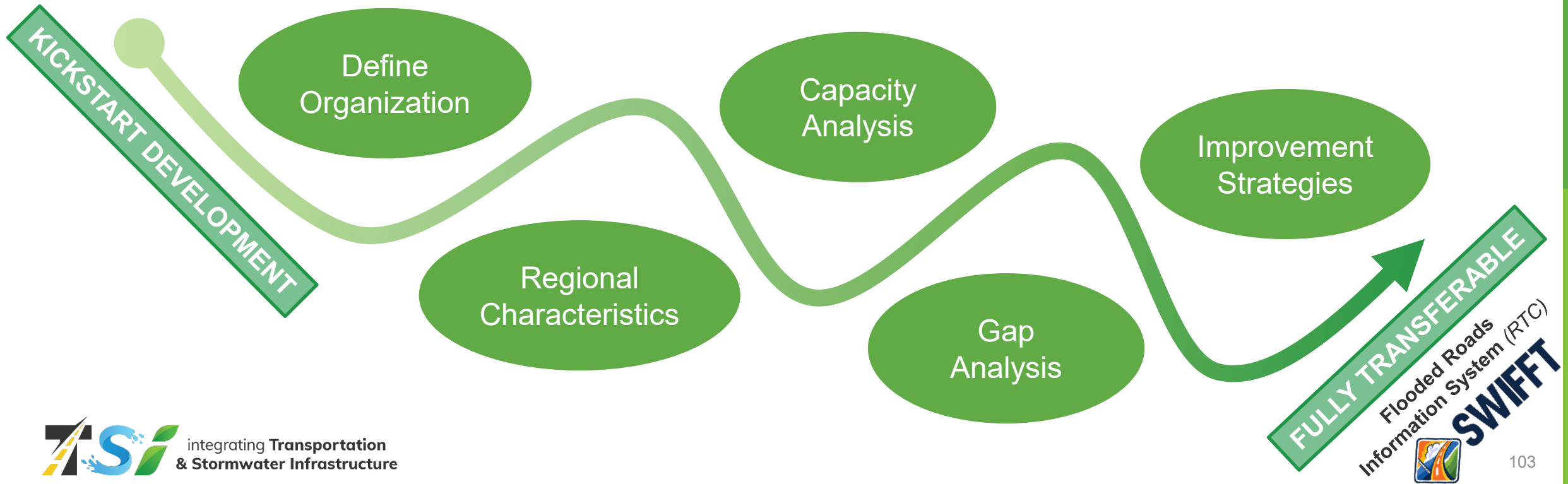
KEY FINDINGS (500-Year Storm):

- In TSI West, 400 more homes inundated without valley storage preservation
- Increased flood depths (≥ 1 ft) for nearly 900 existing homes in vulnerable Mary's Creek & Upper Clear Fork areas
- Over 10,000 downstream structures potentially impacted by TSI Study Area valley storage loss

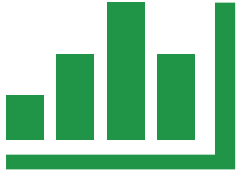
YEAR	TSI WEST SUBAREA DAMAGE – BY WATERSHED					TOTAL
	Lake Worth	Village Creek	Mary's Creek	Upper Clear Fork Trinity	Mountain Creek	TSI WEST (Modeled)
2020 (Initial H&H Model Year)	\$0	\$0	\$0	\$0	\$0	\$0
2027	\$1,000,000	\$2,100,000	\$400,000	\$3,400,000	\$500,000	\$7,400,000
2050	\$4,600,000	\$10,000,000	\$2,200,000	\$21,300,000	\$2,800,000	\$40,900,000
2070 (Horizon H&H Model Year)	\$11,400,000	\$25,900,000	\$6,700,000	\$102,000,000	\$11,100,000	\$157,100,000
2076	\$16,200,000	\$38,100,000	\$10,300,000	\$183,700,000	\$18,900,000	\$267,200,000
Average Annualized Damage (2027-2076)	\$4,500,000	\$9,900,000	\$2,300,000	\$28,100,000	\$3,300,000	\$48,100,000
Present Value Damage (2027-2076)	\$110,700,000	\$244,100,000	\$57,300,000	\$690,200,000	\$81,600,000	\$1,183,900,000
Present Value % by Watershed	9%	21%	5%	58%	7%	100%

YEAR	DOWNSTREAM DAMAGE – BY WATERSHED (500-Year Storm)					TOTAL
	Lake Worth	Village Creek	Mary's Creek	Upper Clear Fork Trinity	Mountain Creek	TSI WEST (Modeled)
Increased 500-Year Storm Damage (2020 vs. 2070 flows)	\$0	Pending	\$198,000,000	\$25,300,000	\$76,000	\$261,500,000
Increased Annual 500-Year Storm Damage in 2070	\$0	Pending	\$400,000	\$100,000	\$0	\$500,000
% Watershed Contribution	0%	15%	76%	10%	0%	100%

Menu of Options: Flood Early Warning System (FEWS)



Menu of Options: **Funding Opportunities**



- Downloadable Excel Spreadsheet
- FAQ



- Identifies funding opportunities to support implementation of TSI strategy recommendations



Topics include:

- Flood Hazard Mitigation
- Water and Stormwater Infrastructure
- Watershed Protection and GSI/NBS Applications



integrating **Transportation**
& **Stormwater Infrastructure**

**TSI FUNDING OPPORTUNITIES TABLE –
FREQUENTLY ASKED QUESTIONS**

Menu of Options: Policy Recommendations

Higher Floodplain Strategies (examples):

- Require development setbacks
- **Preserve valley storage**

Built Environment Strategies (examples):

- Reduced streets in floodplains
- Reduced impervious cover

Comprehensive regional inventory within final report



Preserve Valley Storage – Existing Higher Standards

CATEGORY	TYPE	SAMPLE CODES	DESCRIPTION
Freeboard Requirements	<i>Fixed Freeboard Above Base Flood Elevation (BFE)</i>	Aurora, TX: Flood Damage Prevention Ordinance	Establishes a two-foot (2') freeboard requirement above FEMA minimum standards.
		Johnson County, TX: Flood Damage Prevention Ordinance	Establishes a three-foot (3') freeboard requirement above FEMA minimum standards.
	<i>Fully Developed Conditions Freeboard</i>	Denton, TX: Development Code	Incorporates fully developed watershed conditions into freeboard requirements to account for future flood risk.
		Mansfield, TX: Flood Damage Prevention Ordinance	Incorporates fully urbanized hydrology studies into minimum elevation standards to account for future development conditions.
	<i>Dual-Criteria / Higher-of-Standard</i>	Fort Worth, TX: Floodplain Provisions Ordinance	Applies the more restrictive of FEMA flood elevations & fully developed watershed conditions to determine minimum elevation standards.
Match Pre-Development Runoff	<i>Peak Discharge Matching</i>	Denton, TX: Stormwater Design Criteria Manual	Maintains pre-development peak discharge rates through on-site stormwater controls.
	<i>Downstream Impact Evaluation</i>	Kennedale, TX: Public Works Design Manual	Requires evaluation of downstream drainage systems to identify & mitigate development-related increases in flow velocity & erosion potential.
	<i>On-Site Runoff Mitigation</i>	Denton, TX: Stormwater Design Criteria Manual	Requires on-site stormwater controls to reduce downstream flood impacts & maintain existing drainage conditions.
Valley Storage Preservation	<i>No Net Loss Standards</i>	Benbrook, TX: Flood Hazard Protection Regulations	Preserves floodplain storage capacity by prohibiting valley storage reductions below BFE.
	<i>Compensatory Storage</i>	Fort Worth, TX: Floodplain Provisions Ordinance	Requires replacement of displaced floodplain storage to maintain existing valley storage capacity & reduce downstream flood risk.
No-Rise / No-Adverse Impact	<i>Flood Elevation Impact Standards</i>	Wise County, TX: Flood Damage Prevention Ordinance	Preserves existing flood elevations by prohibiting BFE increases resulting from development within special flood hazard areas.
	<i>Hydraulic Performance Standards</i>	Flower Mound, TX: Floodplain Regulations	Preserves hydraulic performance by prohibiting increases in floodwater velocities resulting from development within flood hazard areas.

How Does TSI Get Implemented?

TSI will...

- Leverage, enhance, and/or recommend expanding existing regulatory frameworks
- Identify and recommend TSI Flood Management Projects (FMPs), Flood Management Evaluations (FMEs), & Flood Management Strategies (FMSs)
- **Collaboratively** explore/promote other avenues to expand flood resiliency & improve funding/programming opportunities (State Flood Plan, Federal grants, etc.)
- Find solutions that provide more benefit values beyond what projects may cost



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StoryMap



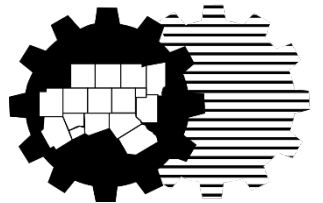
Website:

www.nctcog.org/tsi

Trinity River COMMON VISION & Corridor Development Certificate Process

Emilie Fryksater, CFM

NCTCOG Environment & Development Department



Trinity River COMMON VISION

What is the COMMON VISION?

Trinity River COMMON VISION Program brings together local governments, regional authorities, and state and federal agencies to promote:

- a **SAFE** Trinity River, with stabilization and reduction of **flooding risks**,
- a **CLEAN** Trinity River, with **fishable and swimmable** waters,
- an **ENJOYABLE** Trinity River, with **recreational opportunities** linked by a trails system within a world-class greenway,
- a **NATURAL** Trinity River, with preservation and restoration of **riparian and cultural resources**, and
- a **DIVERSE** Trinity River, with local and regional **economic, transportation** and other public needs addressed.

Trinity River COMMON VISION

Corridor Development Certificate Program



Provides Oversight

Provides oversight for projects constructed in the 1% annual chance floodplain



Review Process

Establishes a consistent regional criteria and review process

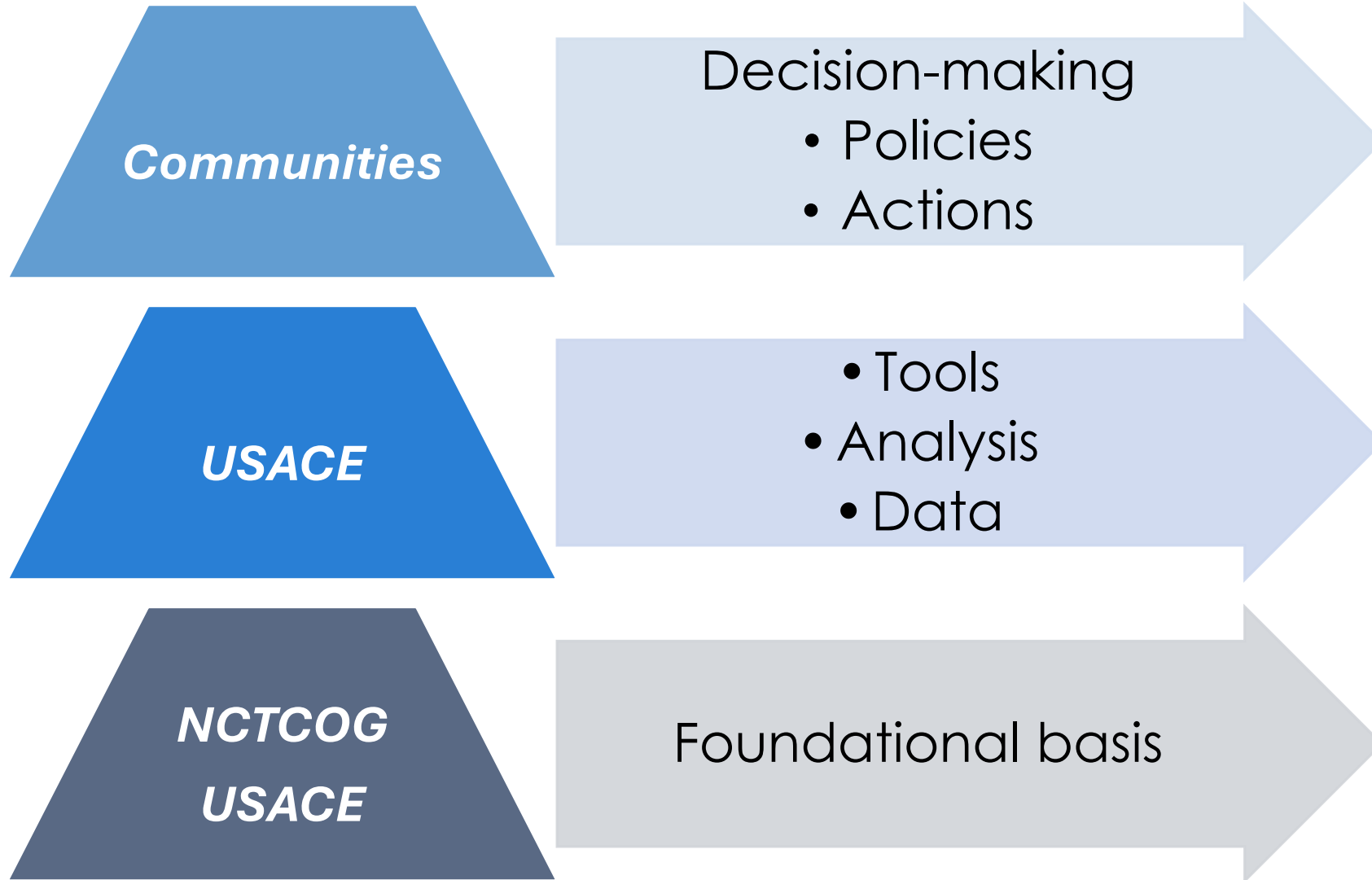


Limits Impact

Limits (but does not eliminate) the impact of floodplain encroachments for regulated streams on downstream areas

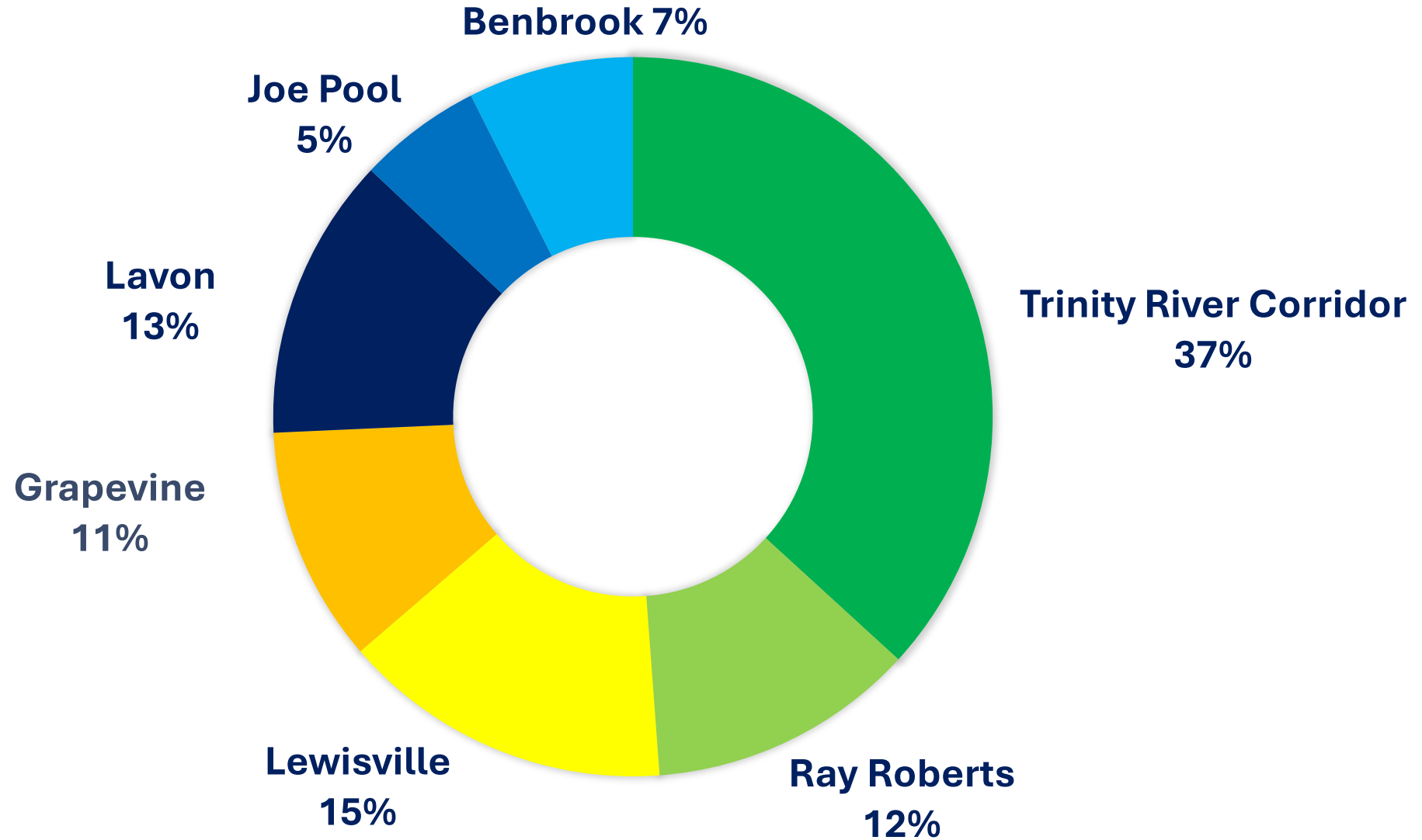
Trinity River COMMON VISION

Local Governments Retain Decision-Making Role



Trinity River COMMON VISION

Active Flood Storage



Trinity River COMMON VISION

Participating Members

Ten Cities

Arlington
Carrollton
Coppell
Dallas
Farmers Branch
Fort Worth
Grand Prairie
Irving
Lewisville
Seagoville

Four Counties

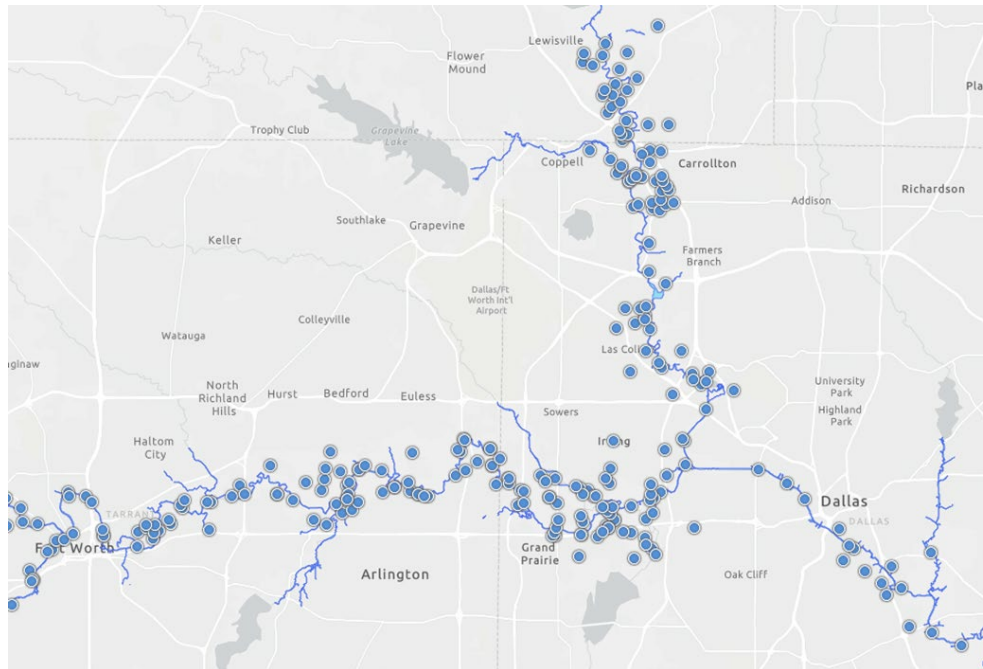
Dallas County
Denton County
Kaufman County
Tarrant County

Two Special Districts

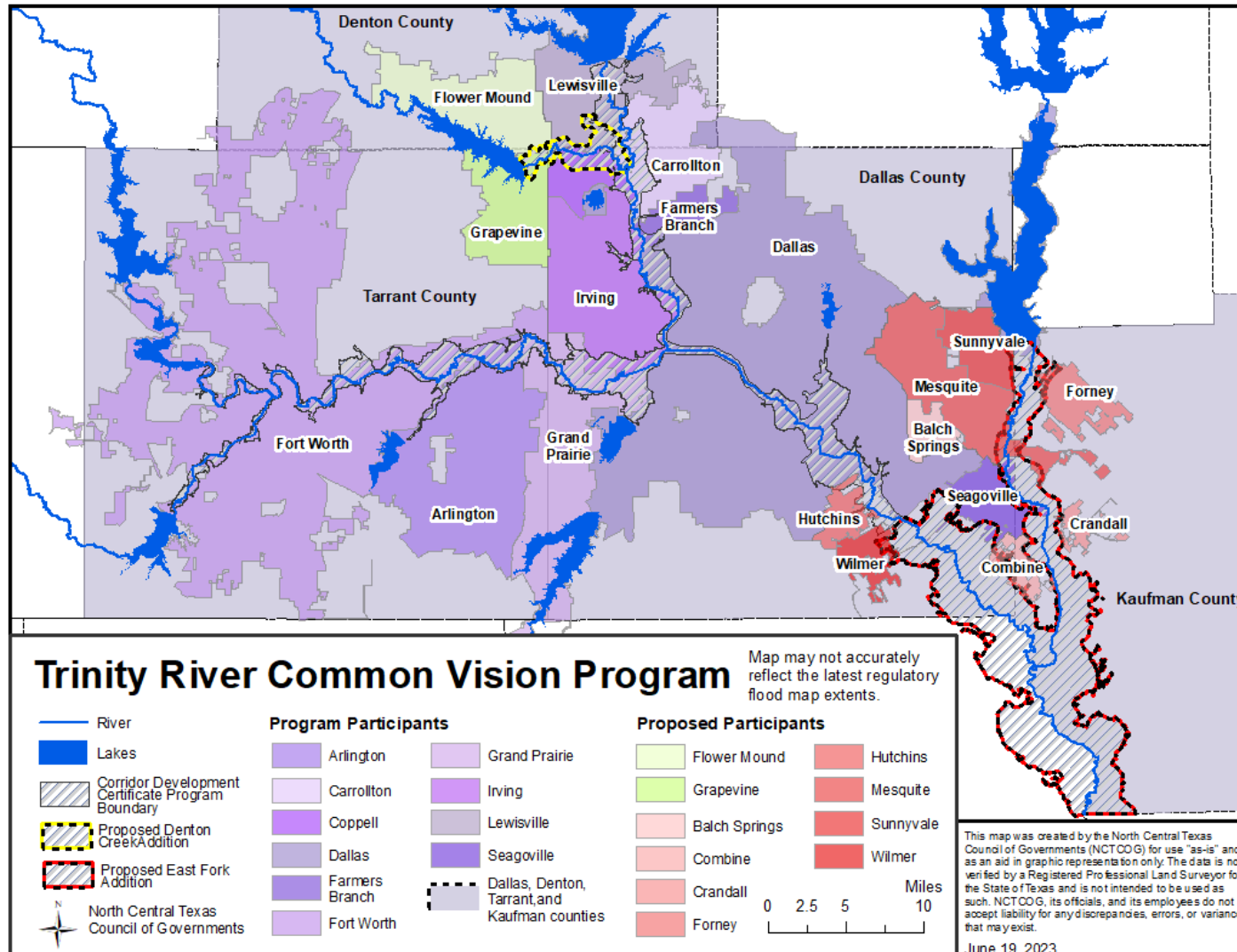
Tarrant Regional
Water District
Trinity River Authority

Programmatic Partners

NCTCOG Environment &
Development
U.S. Army Corps of Engineers
(USACE)
Federal Emergency
Management Agency (FEMA)
Texas Water Development Board
(TWDB)



East Fork Trinity and Denton Creek Community Integration



Prospective Members

East Fork Communities

- Balch Springs
- Crandall
- Forney
- Hutchins
- Mesquite
- Sunnyvale
- Wilmer

Denton Creek Communities

- Flower Mound
- Grapevine

Key Websites



Trinity River COMMON VISION
Program:

<https://www.nctcog.org/envir/watershed-management/trinity-river-common-vision>



CDC Program:

<https://www.nctcog.org/envir/watershed-management/corridor-development-certificate-program>



CDC Models:

<https://www.nctcog.org/envir/watershed-management/corridor-development-certificate-program/trinity-river-corridor-development-certificate>



Floodplain Seminar Presentations:

<https://www.nctcog.org/envir/watershed-management/floodplain-management>
(Scroll down)

Voting Items

Emilie Fryksater, CFM

NCTCOG Environment & Development Department

Christi Upton

NCTCOG Environment & Development Department

Summary of September 18, 2025, COMMON VISION Steering Committee Meeting

- NCTCOG staff are seeking approval of the 2025 Trinity COMMON VISION Steering Committee Meeting Summary.
- [Link to the 2025 summary.](#)
- Vote to approve.

Approval of FY 2027 Trinity River COMMON VISION Work Program and Budget

- NCTCOG staff are seeking approval of the FY 2027 Trinity COMMON VISION Work Program.
- [Click here for draft of the FY27 Work Program.](#)
- Review of changes/additions.

Work Program Review

[Click here for draft of the FY27 Work Program.](#)

Continuation of existing Ongoing Support Activities for FY 2027:

B. Ongoing CDC Process and mapping support – **adjusted**

C. Continued sponsorship of FEMA NFIP training courses – **condensed**

~~**H.** Maintenance of the CDC Application and Tracking Website – **moved (I.B.)**~~

Work Program Review

[Click here for draft of the FY27 Work Program.](#)

Cont. Additional Technical Activities for FY 2027:

~~A. Participation in the Model Consolidation Committee – removed; task completed~~

B. Update the CDC Manual to the 5th Edition – **adjusted**

C. Online Mapping Tool Maintenance – **new, added***

D. Expand the CDC Program within the TSI Study Area – **new, added***

E. Update Communities' Acreage in Floodplain (FIRM) – **adjusted**

G. Annual Summary Report – **new, added***

*No change anticipated in cost shares.

Work Program Review

[Click here for draft of the FY27 Work Program.](#)

Cont. Additional Technical Activities for FY 2027:

- ~~A. Participation in the Model Consolidation Committee – removed; task completed~~
- B. Update the CDC Manual to the 5th Edition – **adjusted**
- C. Online Mapping Tool Maintenance – **new, added***
- D. Expand the CDC Program within the TSI Study Area – **new, added***
- E. Update Communities' Acreage in Floodplain (FIRM) – **adjusted**
- F. Ensure Functionality of the Trinity River CDC Website (www.trinityrivercdc.com)
- G. Annual Summary Report – **new, added***

No change anticipated in cost shares.

Budget Review

The cost share for cities is based on acreage within the floodplain. The cost per acre to communities is ~\$1.73.

“Any other Political subdivision with a voting member on the Steering Committee will pay 5%.”

There will be no increase to the cost share or rate for FY2027.



COST SHARES FOR CURRENT COMMON VISION PARTICIPANTS

Participant	Floodplain Acres (FIRM)	Cost Share
Arlington	3,351	\$5,802.78
Carrollton	5,941	\$10,287.77
Coppell	1,490	\$2,580.17
Dallas	25,787	\$44,654.18
Farmers Branch	1,472	\$2,549.00
Fort Worth	16,261	\$28,158.44
Grand Prairie	8,498	\$14,715.60
Irving	7,757	\$13,432.44
Lewisville	3,072	\$5,319.65
Seagoville	2,776	\$3,192.00
Dallas County		\$10,000.00
Denton County		\$5,000.00
Kaufman County		\$10,000.00
Tarrant County		\$7,500.00
TRWD		\$7,500.00
TRA		N/A

Total: \$170,692.03

Approval of FY 2026 Trinity River COMMON VISION Work Program and Budget

- Questions?
- Vote to approve?

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nctcog.org/envir

Upcoming Events & Meetings

➤ 31st L0273 Floodplain Management Course

➤ Monday, September 21 • September 24 • 8:00am – 5:00pm

➤ Certified Floodplain Manager Exam

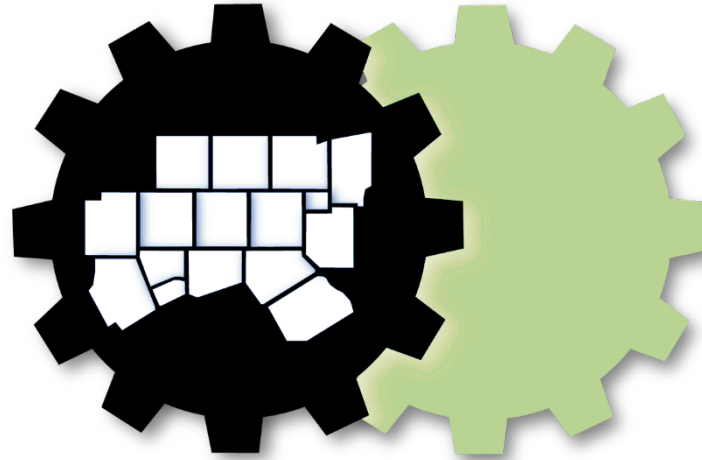
➤ Friday, September 25 • 9:00am – 12pm

➤ *integrated* Stormwater Management Implementation Subcommittee Meeting

➤ Tuesday, October 13 • 1:30 – 3:30pm

➤ Water Resources Council

➤ Wednesday, October 14 • 10:30am – 12:30pm



ROUNDTABLE