

# FEMA Region 6 Mapping Update

Oklahoma Floodplain Management Association

April 9, 2024

Tulsa, OK

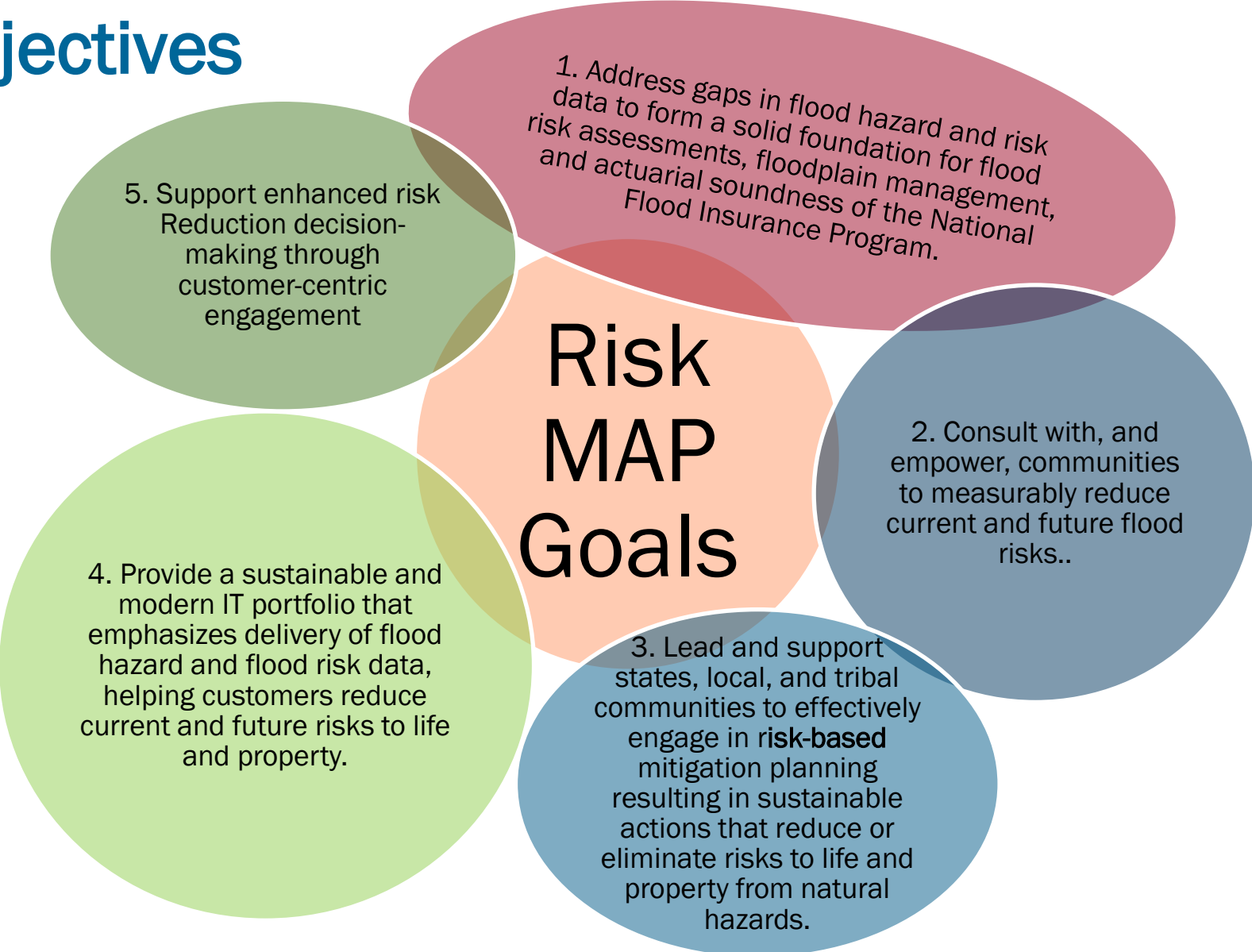


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# National Risk MAP Objectives

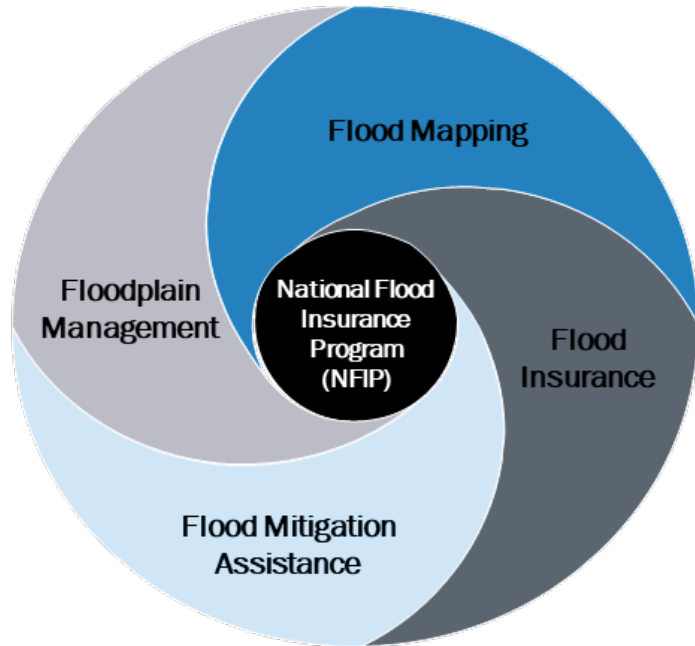
The Risk Mapping, Assessment, and Planning (Risk MAP) program provides communities with flood risk information and tools they can use to enhance their mitigation plans and better protect their residents.

Through more precise flood mapping products, risk assessment tools, and planning and outreach support, Risk MAP strengthens the local ability to make informed decisions about reducing flood risk.



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# Regional Objectives



Meet National Metrics through prioritized Regional Investments




Empower Communities with Risk Information

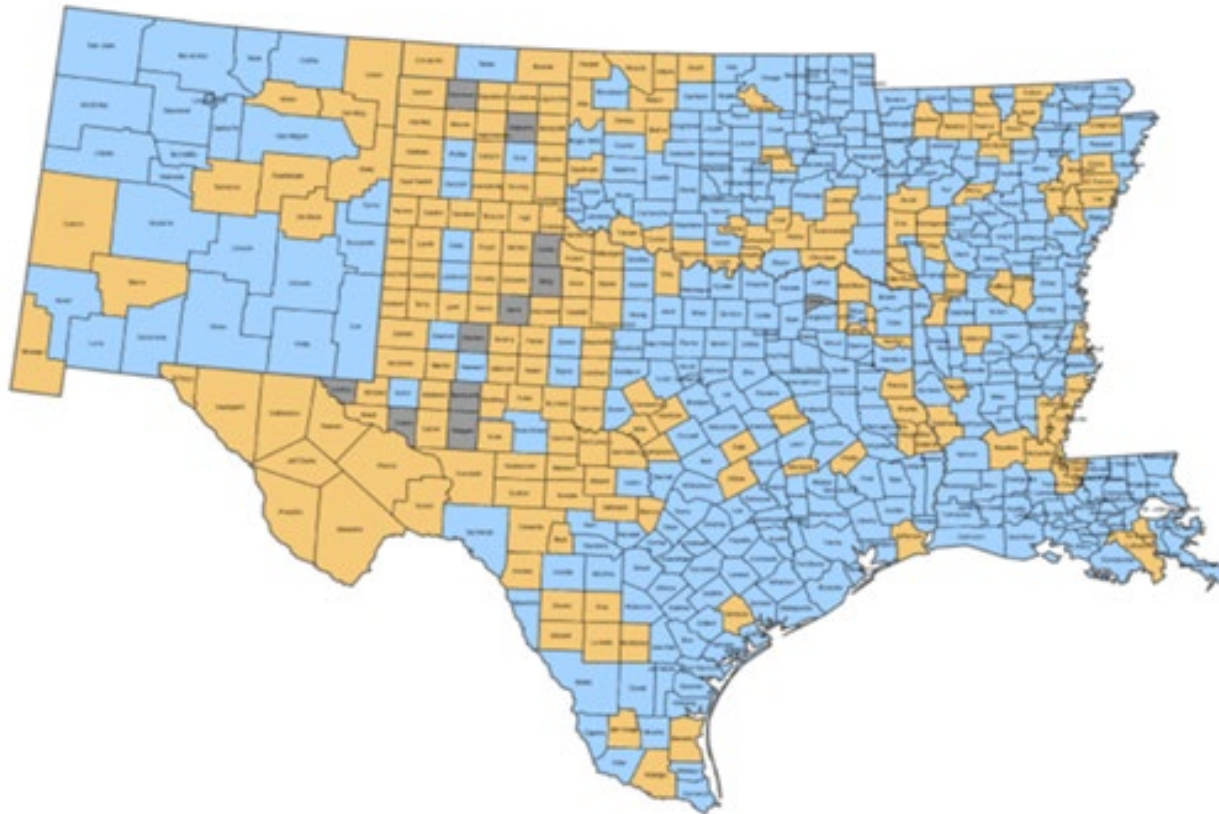
Provide data and support to improve local Floodplain Management



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# Regional Objectives for Mapping

-  Digital Maps
-  Paper-only
-  No Maps



**Mapped Miles: 269,629**

**Unmapped Miles: 290,190**

**Number of counties/parishes: 503**

**Number of digital counties/parishes: 185**

**Number of counties with no FIRMs: 11**



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# Aligning with HQ Priorities



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# Building Partnerships

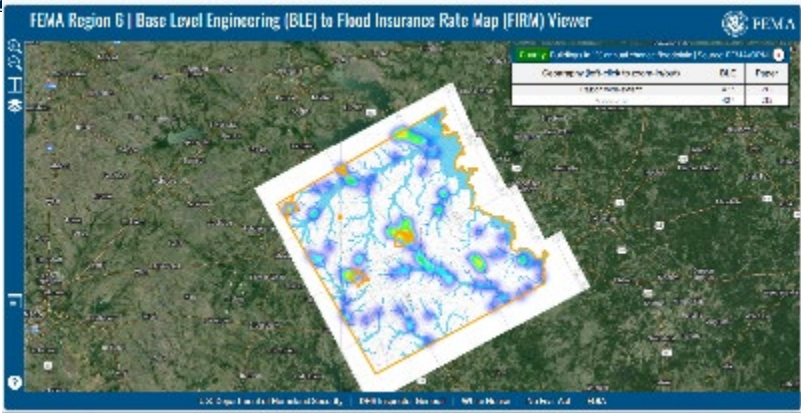
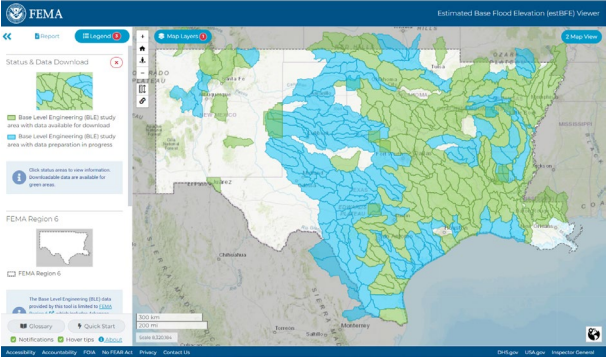
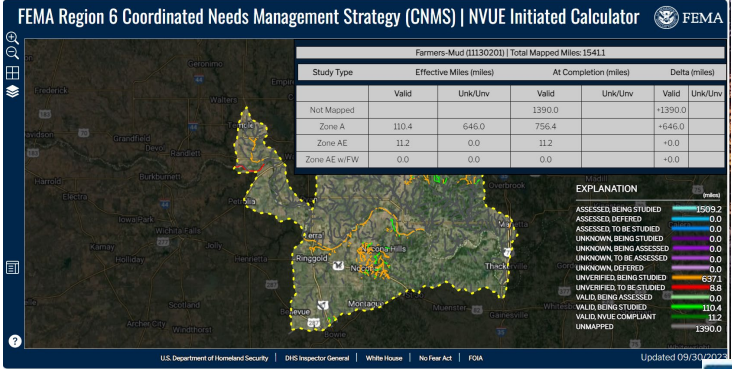
## Our InFRM Team:

- USACE
- USGS
- NOAA/NWS
- FEMA

<https://webapps.usgs.gov/infrm>

## Some of our Projects:

- Estimated BFE Viewer
- BLE-to-FIRM Viewer
- CNMS Calculator
- Water Hydrology Assessments
- Flood Inundation Libraries
- Project and Outreach Coordination



# Building Partnerships Continued

Cooperative Technical Partnership (CTP) Program



- Floodplain Mapping
- Resilience Meetings
- Community Engagement
- State Business Plan



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# Ongoing FEMA Projects in Oklahoma

## Regulatory FIRM Updates

- City of Tulsa – Little Haikey Creek – Prelim – 5/29/24
- Love County PIR – Prelim 5/3/24
- Pushmataha County PIR – Prelim TBD
- Latimer County PIR – Prelim TBD
- Harper County PIR – Prelim TBD
- Choctaw County PIR – Prelim 1/10/24
- Oklahoma County (Coffee Creek) – Revised Prelim 6/28/23
- Cleveland County PMR – Eff. 3/27/24
- Oklahoma County PMR – Eff. 3/27/24
- Coal County – CW – Eff. 8/14/24
- Johnston County – Eff. 1/11/24
- Murray County – Eff. 1/11/24

## Base Level Engineering

- Polecat-Snake, Dirty Greenleaf
- Kaw Lake, Lower Salt Fork Arkansas, Chikaskia, & Black Bear-Red Rock (OK/TX)
- Lower Canadian – Deer, Lower Beaver, Lower Wolf, & Middle North Canadian
- Lower Prairie Dog Town Fork Red, Groesbeck – Sandy, Blue – China, Pease, and Wichita (TX/OK)
- Upper Salt Fork Arkansas & Medicine Lodge
- Upper Cimarron- Bluff, Crooked, & Upper Cimarron - Liberal
- Neosho- Verdigris - Bird, Caney, Elk, Lake O 'The Cherokees, Lower Neosho, Lower Verdigris, & Middle Verdigris (AR/OK)
- North Canadian- Middle Beaver
- North Canadian- Upper Beaver, Upper Cimarron - Upper Cimarron (NM,OK), & Upper Cimarron - Cimarron Headwaters (NM/OK)
- Lower North Canadian, Lower Washita, Middle Washita, Upper Washita, & Washita Headwaters (OK/TX)

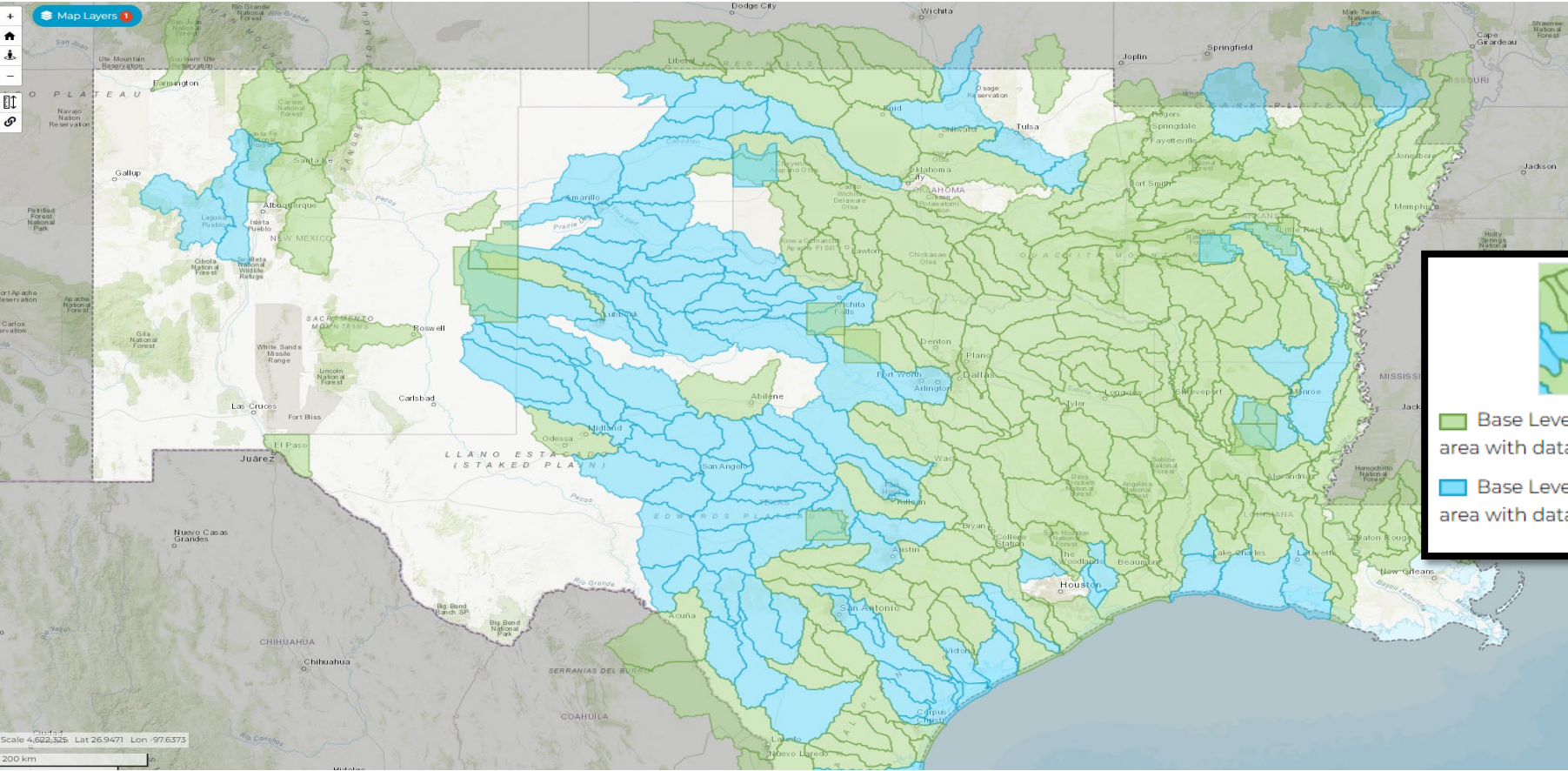


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# FEMA's Estimated Base Flood Elevation (BFE) Viewer

(usgs.gov)



<https://webapps.usgs.gov/infrm/estBFE>



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# Estimated Base Flood Elevation (estBFE) Viewer

Welcome to the  
**Estimated Base Flood Elevation Viewer**

Base Level Engineering assessments are produced using high resolution ground data to create technically credible flood hazard information that may be used to expand and modernize FEMA's current flood hazard inventory.

**High Flood Risk**  
This location is in a 1% (100 year) flood zone.  
[View Report](#)

File Name	Size	Download
12030106_Models.zip	383.9 MB	<a href="#">Download</a>
12030106_Depth01.zip	82.8 MB	<a href="#">Download</a>
12030106_Depth002.zip	91.3 MB	<a href="#">Download</a>
12030106_Elev01.zip	19.5 MB	<a href="#">Download</a>
12030106_Elev002.zip	20.1 MB	<a href="#">Download</a>
12030106_VectorData.zip	263.7 MB	<a href="#">Download</a>

**Property Look Up**  
Where data are available, produce a property-specific report with estimated base flood information.  
[What's My Flood Risk?](#)

**View Base Level Engineering Data**  
Access all available Base Level Engineering data without GIS software.  
[I Want to Explore](#)

**Download Datasets & Models**  
Download the Base Level Engineering data presented in the viewer.  
[I Want to Download](#)

2 1 3

<https://webapps.usgs.gov/infrm/EstBFE/>

 Available

 In Progress

[Base Level Engineering \(BLE\) Tools and Resources | FEMA.gov](https://www.fema.gov)



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# View the Base Level Engineering Data

The screenshot displays the FEMA Estimated Base Flood Elevation (estBFE) Viewer interface. The interface is divided into two main panels. The left panel features a sidebar with navigation options: a red-bordered 'Report' button, an orange-bordered 'Map Layers' button, a search box labeled 'Find a place', a 'My Location' button, and a green-bordered 'Quick Start' button. The main map area shows a network of purple flood zones. The right panel displays a satellite map with red flood zones. A yellow-bordered '1 Map View' button is located in the top right corner of the satellite map. A large green circle with the number '1' is positioned to the right of the satellite map.



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# Run a Site-Specific Report

FEMA Estimated Base Flood Elevation (estBFE) Viewer

Report Legend Map Layers

in the above search box. A popup will appear at the chosen location and you can create a report when BLE data are available there.

OR

My Location

Click this button to zoom the map to your actual location. A popup will appear and you can create a report when BLE data are available there.

OR

Map Click

Zoom in to your area of interest. Click this button and then the map. A popup will appear and you can create a report when BLE data are available there.

Map Click Location

**High Flood Risk**

This location is in a 1% (100 year) flood zone.

View Report

Zoom Close

100 m 500 ft Scale 3,637

Map Layers 1 Map View

2

<https://webapps.usgs.gov/infrm/EstBFE/>

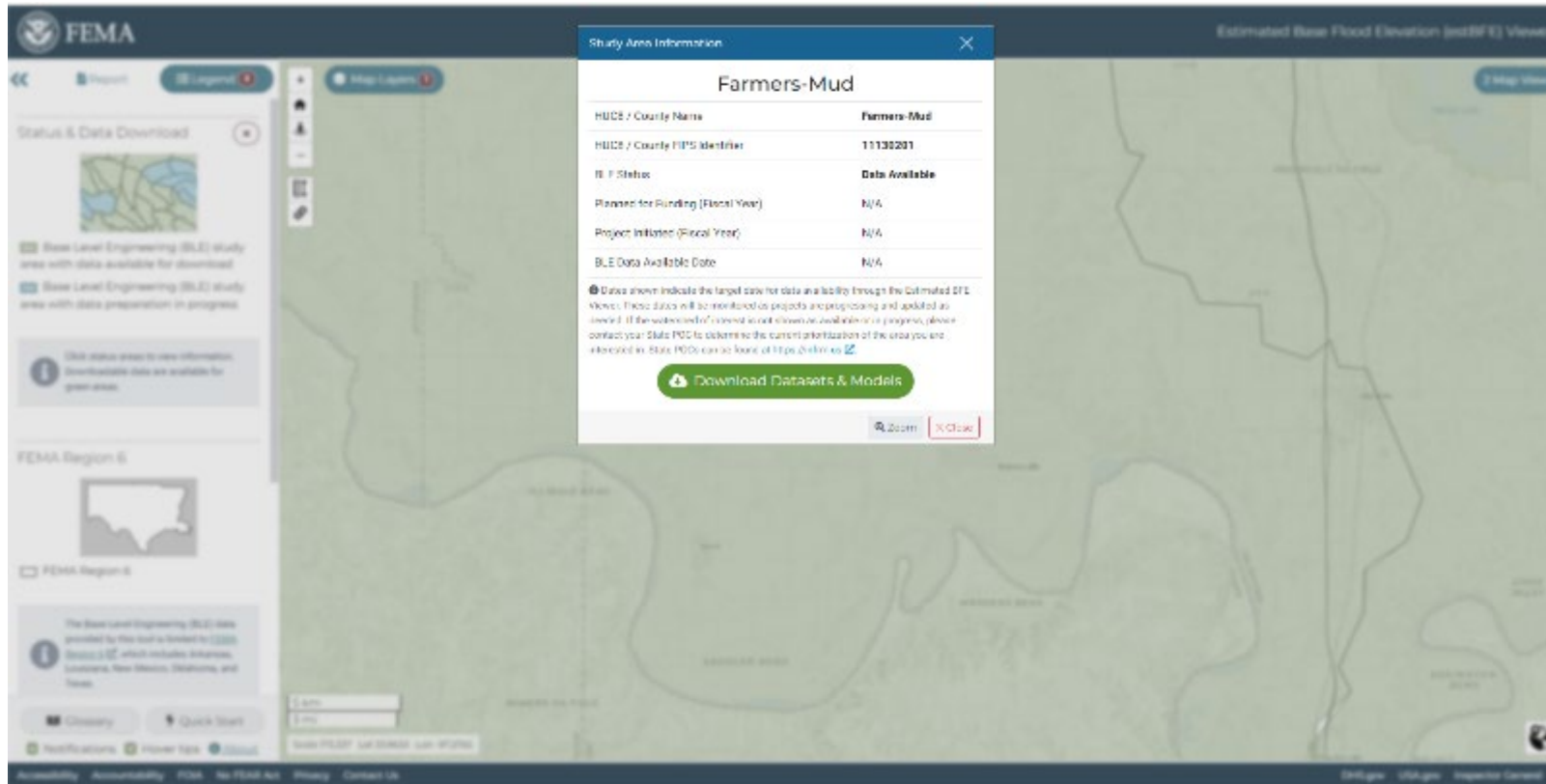


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# Download the Data

<https://webapps.usgs.gov/infrm/EstBFE/>

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## Products

- Hydraulic Engineering Models:  
10%, 4%, 2%, 1%, 1%+, 1%-, 0.2%
- Estimated Flood Extents: 10%, 1% and 0.2%
- Estimated Water Surface Grids: 1% and 0.2%
- Estimated Flood Depth Grids: 1% and 0.2%
- Additional Purchased (R6)
  - HAZUS – Level 2 Analysis
  - Point file (Choke Points, Survey Support and Update Areas)
  - Freeboard Grids



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# FEMA Region 6 Virtual Brown Bag



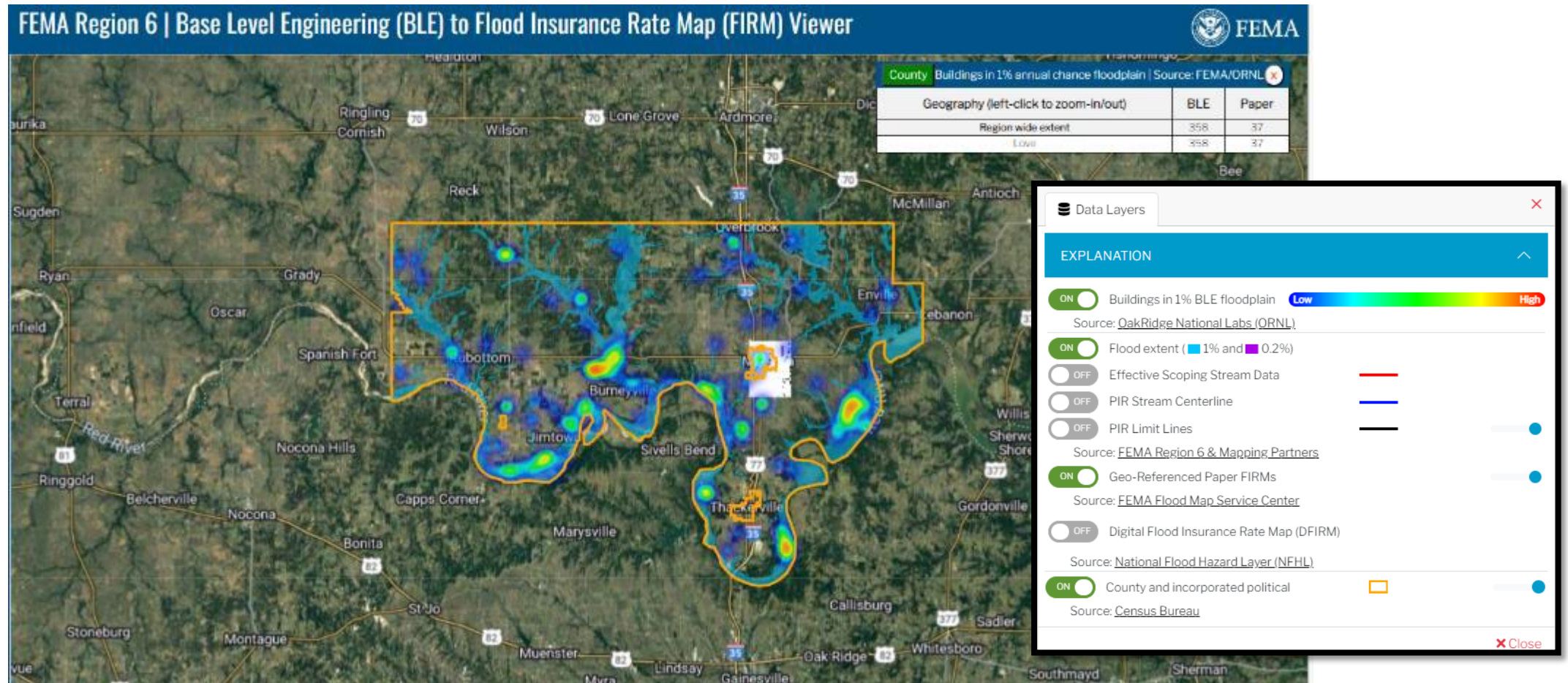
1-hr CEC  
through  
ASFPM

<https://www.eventbrite.com/e/fema-region-6-virtual-brown-bag-vbb-tickets-392536145177>



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# Region 6 BLE-to-FIRM Viewer



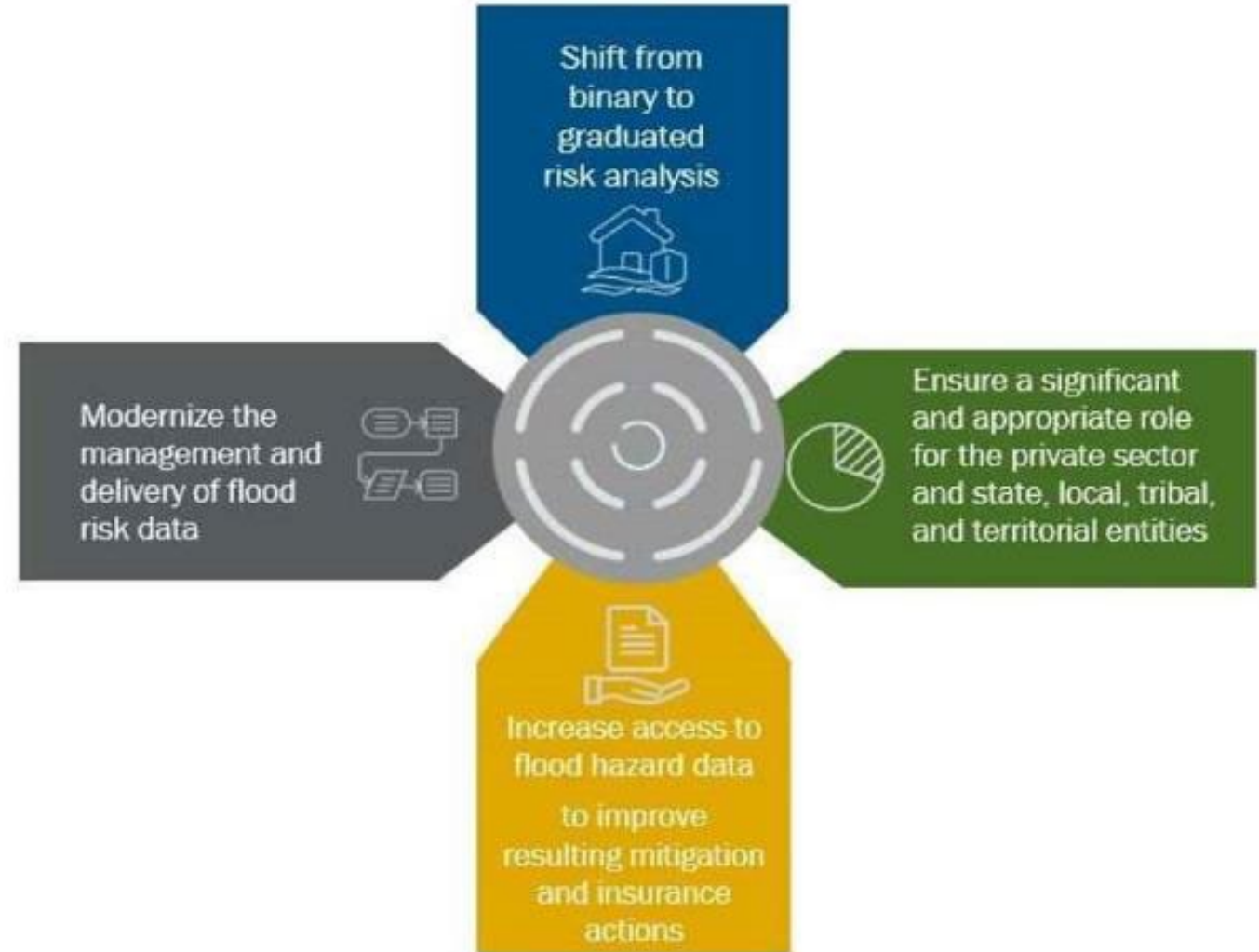
[https://webapps.usgs.gov/fema/ble\\_firm](https://webapps.usgs.gov/fema/ble_firm)



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# Risk MAP Program Evolution: FFRD Approach

The Future of Flood Risk Data initiative provides a framework for the mapping program to drive towards a risk informed NFIP and is supported by collaboration and coordination with many partners



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**Flooding can happen anytime, anywhere.**



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