

Nick Shufro, Deputy Assistant Administrator

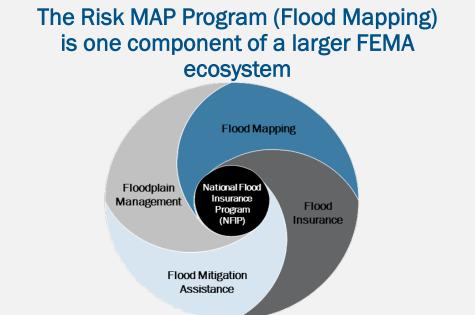
Risk Analysis, Planning and Information Directorate (RAPID), Resilience, FEMA

November 1, 2023





Communities



Risk MAP Program

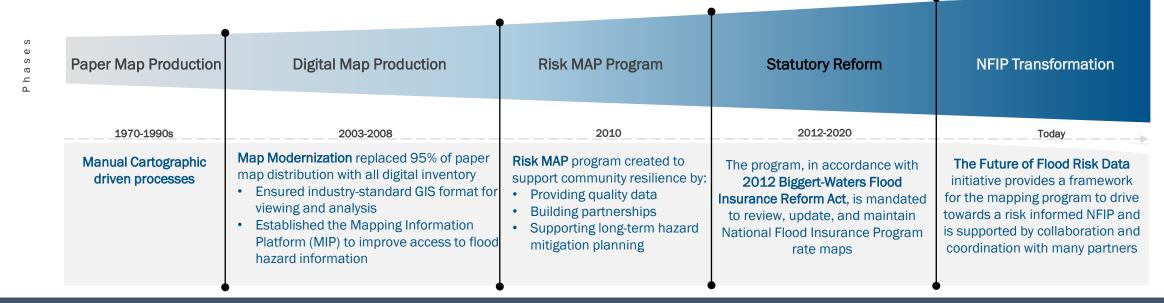


The Risk Mapping, Assessment, and Planning (Risk MAP) program provides communities with flood risk information and tools they can use to enhance their mitigation plans and better protect their citizens.



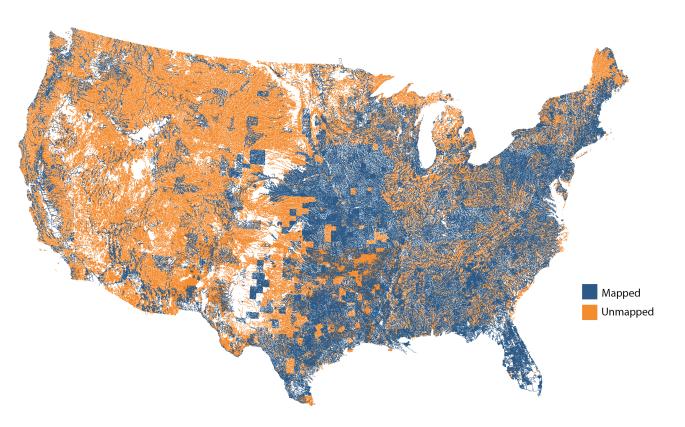
Through more precise flood mapping products, risk assessment tools, and planning and outreach support, Risk MAP strengthens the local ability to make informed decisions about reducing flood risk.

The Evolution of the Program



Risk MAP continues to evolve to keep pace with community needs and technology advancements to provide more precise flood mapping products, risk assessment tools, and planning and outreach support to strengthen the community's ability to make informed decisions about reducing risk.

Flood Hazard Data Gaps Remain



Mapped vs. Unmapped Miles

Of the **3.5 million** miles of flooding sources in the United States, there are **1.3** million miles impacting areas of potential development for which Risk MAP is developing a strategy to address.

1.2 Miles mapped and maintained by FEMA

1.1 Miles on Federal Lands and do not need to be mapped

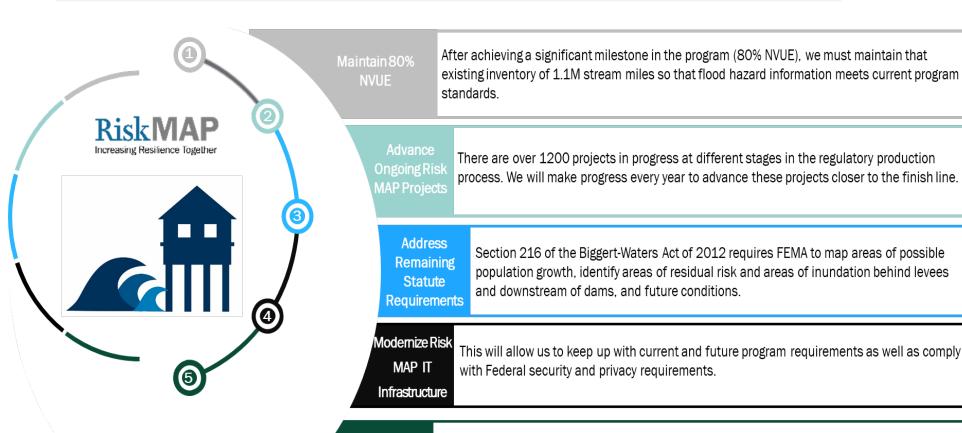
1.2 M Unmapped Miles



Risk MAP is responsible for ensuring the Nation's flood hazard information are current and up to date.

Risk MAP Priority Areas

In FY23, Risk MAP will continue to meet program requirements through it's 5 priority areas



Advance Future of

Flood Risk Data

(FFRD)

And support on-going Administration Priorities

Federal Flood Risk Management Standard (FFRMS)

FEMA is developing Freeboard Value Approach (FVA) flood hazard data to support FFRMS implementation.

These datasets represent the area that would be flooded if the flood elevations were two or three feet higher than the base flood elevations shown on FEMA's existing Flood Insurance Rate Maps.

Utilizing these datasets as the minimum requirements for federally funded projects will help ensure that investments are more resilient to climate change influenced flood impacts.

Justice 40

Risk MAP is working with other FEMA Justice 40 programs and the NFIP to identify what data they need to drive outcomes.

We will continue our exploration efforts though the FFRD initiative in support of a risk-informed NFIP and better meet the demands of our customers.

Understanding the Drivers For Change

Over the years, new executive orders and policies have been developed that require the program to adapt to evolving needs. The program has continued to maintain existing efforts while onboarding new capabilities to meet these needs.

UNMET STATUTORY REQUIREMENTS



Biggert-Waters Act of 2012 (BW-12)

Homeowner Flood Insurance Affordability Act of 2014 (HFIAA)

EQUITY



EO 14008: Tackling the Climate Crisis at Home and Abroad (includes **Justice40** requirement)

EO 14091: Further
Advancing Racial Equity and
Support for Underserved
Communities Through the
Federal Government

EO 13985: Advancing Racial Equity and Support for Underserved Communities Through the Federal Government

EVIDENCE BASED ACT



Foundations for Evidence-Based Policymaking Act

CUSTOMER EXPERIENCE



Memorandum on Restoring
Trust in Government
Through Scientific Integrity
and Evidence-Based
Policymaking

EO1405: Transforming
Federal Customer
Experience and Service
Delivery to Rebuild Trust in
Government

CLIMATE RESILIENCE



E014030: Climate-Related Financial Risk

Community Disaster
Resilience Zones Act of
2022 (CDRZ)



Preparing for the Future

Maintaining Ongoing Mapping Program

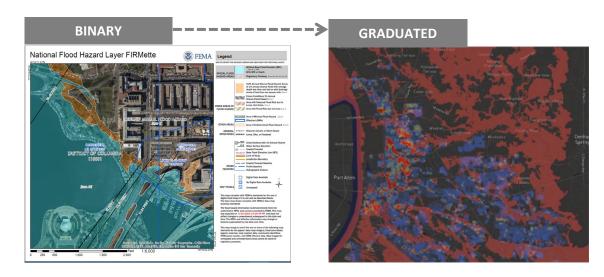
Risk MAP

While Preparing for the Future

In FY 2020, Risk MAP achieved the objective of 80.6% NVUE ahead of schedule.

Flooding is changing and our ability to analyze it is too. More and different data is needed to understand the scale of the risk.

There are several benefits with the approach to shift from binary to graduated risk analysis including improving understanding of flood risk, providing data that drives actions to mitigate risk and improving the insurance rating.



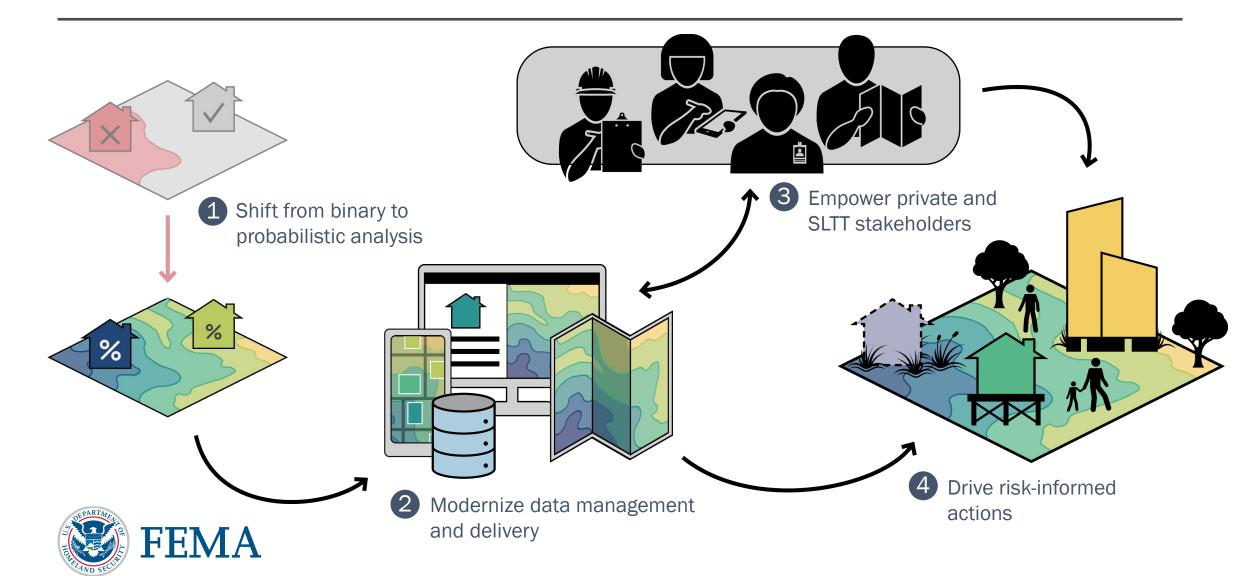
90.0% 80.6% 80.0% 71.4% 70.0% Red Line: Threshold value for the NVUE Key 60.0% 53.2% 50.4% 50.1% Performance Parameter (KPP) in the program's 50.0% Acquisition Program Baseline (APB) 40.0% 30.0% 20.0% 10.0% 0.0% 2009 2011 2013 2015 2017 2019 2021 2023

Risk MAP will continue to maintain and exceed the NVUE target

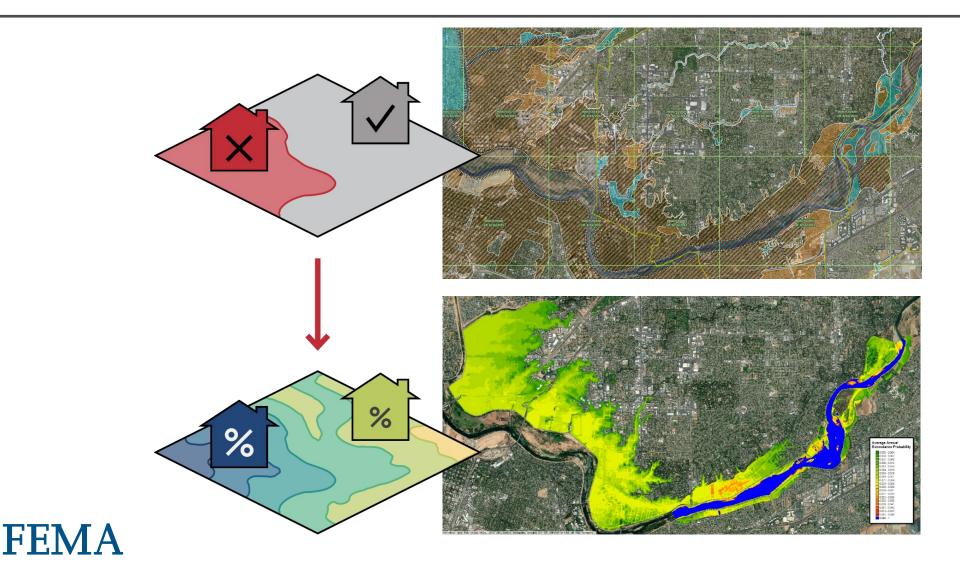


Risk MAP will provide regulatory and non-regulatory **flood hazard and risk information** in expanded areas across the nation that meet the needs of stakeholders, address unmet statutory needs, and provide the basis for a risk informed NFIP.

Future of Flood Risk Data Objectives

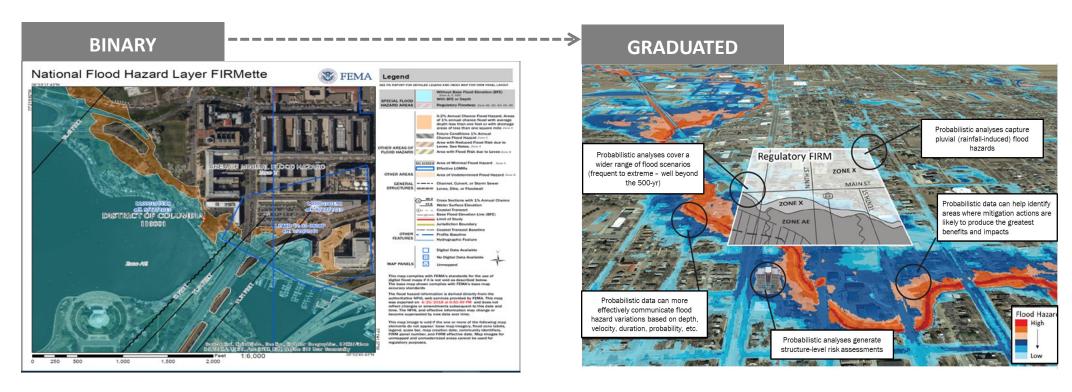


A Shift From Binary to Probabilistic



Future of Flood Risk Data (FFRD) Approach: A strategic shift

Risk MAP must continue to evolve to support the NFIP transformation to a risk-informed program.





Agency Collaboration and the Promise of FFRD



Federal Flood Risk Management Standard
Climate-Informed Science Approach (CISA)
State of the Science Report

A Report by the
Federal Flood Risk Management Standard (FFRMS)

Flood Resilience Interagency Working Group of the

NATIONAL CLIMATE TASK FORCE

Science Subgroup of the

March 2023

"As FEMA transitions to a risk-informed NFIP, through initiatives such as the program's updated pricing methodology (Risk Rating 2.0), explorations to update modeling approaches to incorporate climate impacts like those underway in FEMA's "The Future of Flood Risk Data" (FFRD) initiative will help meet the Nation's needs for comprehensive hazard and risk data to drive decisions.

Engaging with Stakeholders







American Planning Association







Technical Mapping Advisory Council (TMAC)

The TMAC is charged with reviewing the national flood mapping activities authorized under the law and provide recommendations to the FEMA Administrator.

In 2022, FEMA tasked the TMAC with the following:

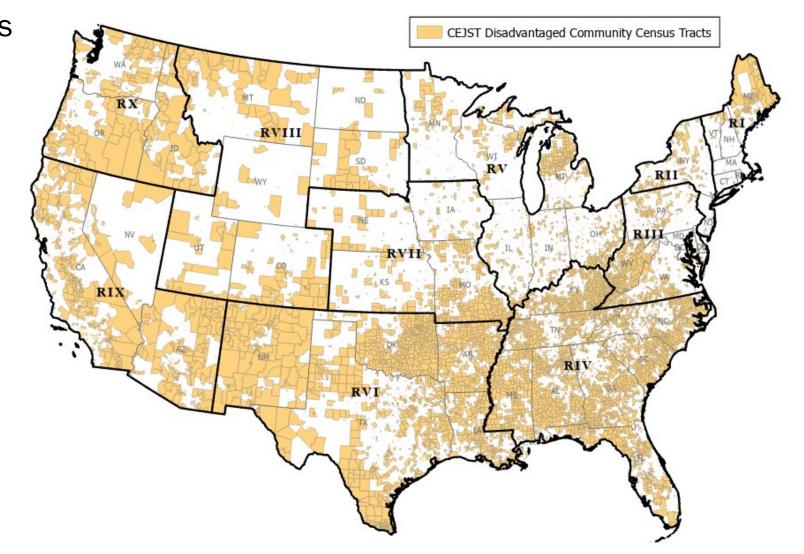
- Evaluate the barriers that disadvantaged communities face in understanding their risk and acting to reduce their risk. Recommend ways for the program to overcome these obstacles and better meet the needs of these communities.
- Evaluate and recommend ways for Risk MAP to identify and limit the potential negative impact and unintended consequences that might result from Risk MAP products and program delivery.
- Evaluate and recommend ways for Risk MAP to improve stakeholder engagements with disadvantaged/underserved communities.
- Evaluate ways the agency could use statistical data and analysis regarding social vulnerability and underserved populations and provide recommendations on how that data and analysis should inform future annual investment decisions for Risk MAP.





CJEST DAC Census Tracts

 37% of all census tracts are classified as Disadvantaged Communities (DACs)





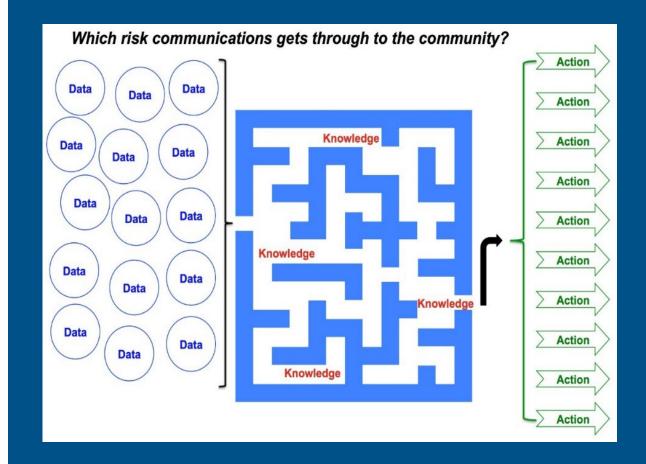
FFRMS Overview

- The Federal Flood Risk Management Standard (FFRMS) was established in E.O. 13690 and reinstated in 2021
- FFRMS is a flexible framework that supplements E.O. 11988 Floodplain Management (1977)
- Purpose:
 - □ to address current and future flood risk
 - □ to protect projects funded with taxpayer dollars
- How:
 - expand management from the Base Flood Elevation to a higher vertical flood elevation and corresponding horizontal floodplain
- FEMA is a lead agency in the Executive Office of the President (EOP) Flood Resilience Interagency Working Group and provides FFRMS guidance to other agencies
- FEMA has elected to incorporate the Climate-Informed Science Approach into its policy and has accounted for it in the economic analysis

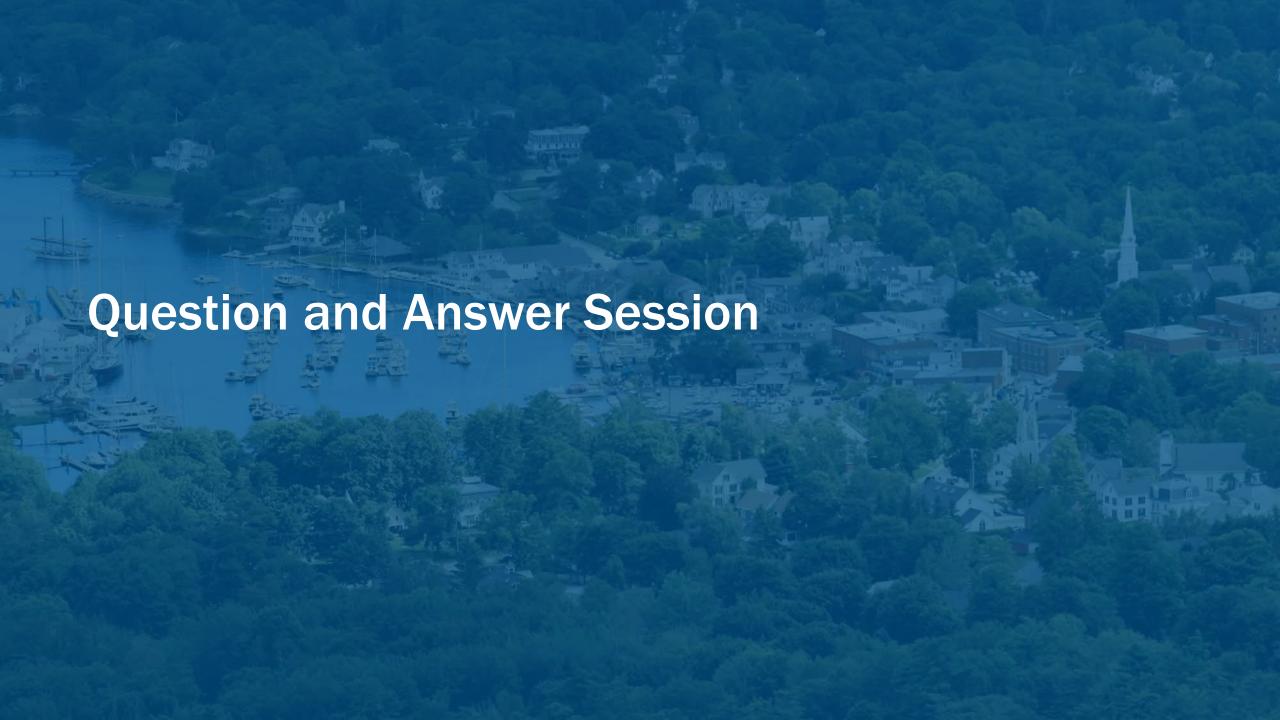


New initiatives to help FEMA better achieve its objectives

- FEMA is actively engaging in conversations with traditional and nontraditional stakeholders, such as CODE.
- FEMA understands continuous improvement and strives to improve the customer experience, including for disaster survivors
- Risk MAP is the current iteration of many years of improvements and continues to evolve (e.g., FFRD, mainstreaming our data).
- FEMA understands that we need to make our data more accessible to all, including vulnerable and resource constrained communities
- FEMA understands critiques of our products often stem from misperceptions of Risk MAP products and/or the potential pocketbook impacts to our customers.







Nick Shufro Deputy Assistant Administrator, RAPID, Resilience, FEMA

Nick.Shufro@fema.dhs.gov

