

# Mitigation – *We Make NOTHING HAPPEN*

Tuesday, December 13<sup>th</sup> 2022 –  
Climate Change Advisory Committee Meeting



PEMA HQ  
Presented by:  
PEMA EM MIRC Office  
Tom Hughes,  
PEMA/State Hazard Mitigation Officer



# What is the Mitigator's Quest?

Hazard Mitigation is:

***“any cost-effective action taken to eliminate or reduce the long-term risk to life and property from natural and technological hazards and to protect sense of place.”***



# Mitigation Categories we work with...



## **Local Plans and Regulations**

Government authorities, policies, or codes that influence the way land and buildings are developed



## **Structure and Infrastructure Projects**

Modifying existing structures or infrastructure to remove them from a hazard area or construction of new structures to reduce the impacts of hazards



## **Natural Systems Protection**

Actions that minimize damage and losses and also preserve or restore the functions of natural systems



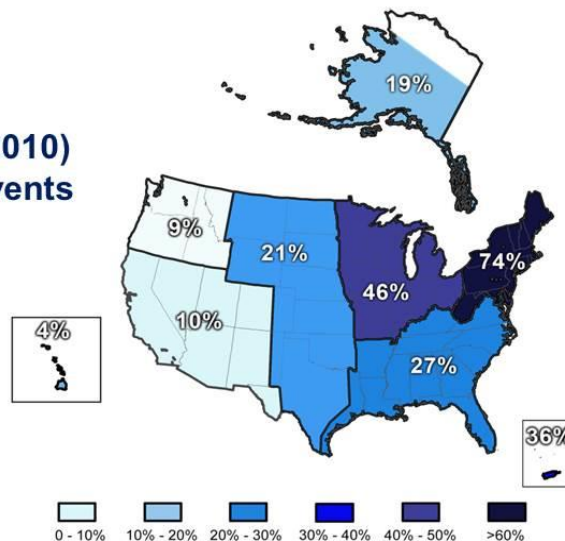
## **Education and Awareness Programs**

Sustained programs to educate the public and decision makers about hazard risks and community mitigation programs

# Heavy Rain Events are Increasing

Regardless of Shifts in Total Annual Rain  
More of It Is Coming in Heavy Downpours

Percent Increase (1958-2010)  
in Heavy Precipitation Events  
(>2inch/48 hr)



NOAA, provided by A. DeGaetano, NERCC, Cornell

- The Northeast U.S. leads the country with a 74% increase in heavy rain events over the past five decades
- Heavy downpours are increasing nationally, especially over the last three to five decades, with the largest increases in the Northeast
- Increases in extreme precipitation are projected for all U.S. regions
- All reasons to for flood insurance **both inside and outside flood plains**

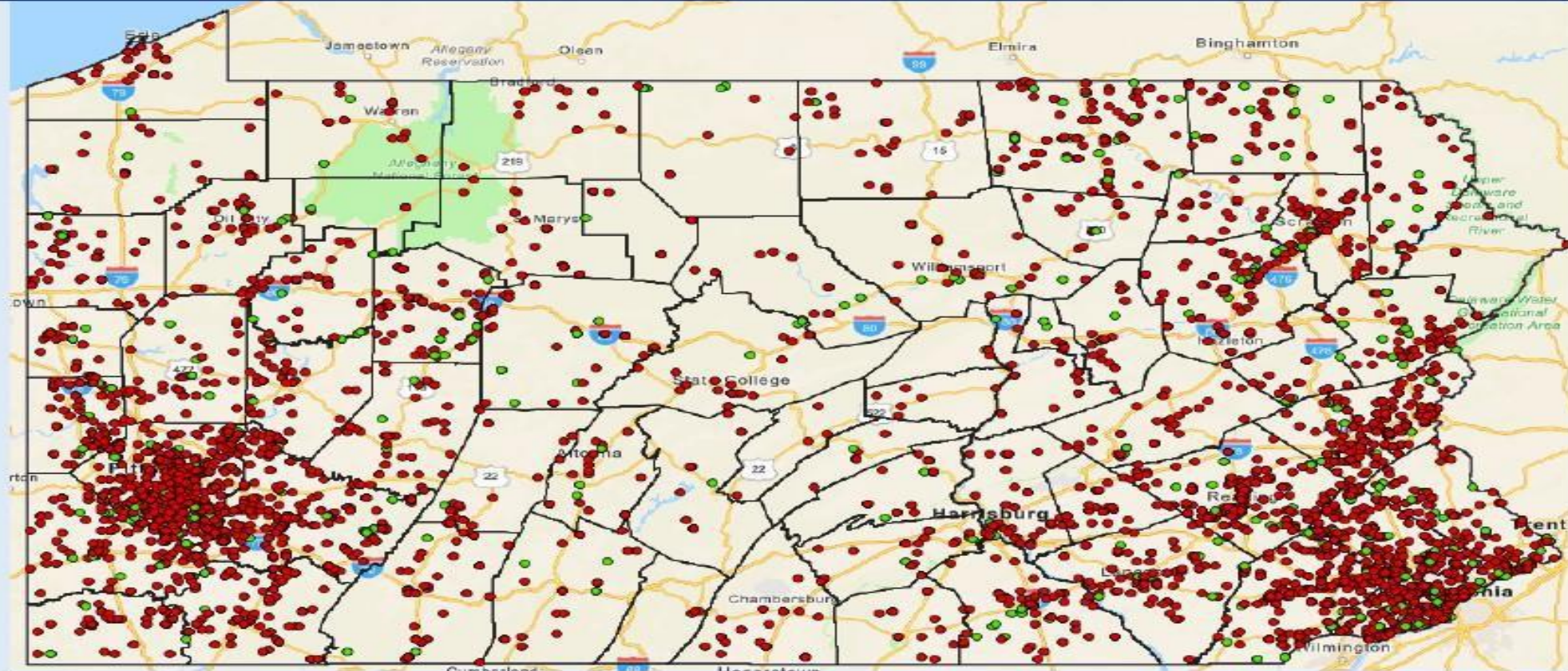
Sources: A. DeGaetano, Global Change.gov

# Where it can rain, it can flood



## DID YOU KNOW?

Roughly 9 out of 10 flood reports made to the National Weather Service were outside the FEMA 100-year floodplain.



Locations of flood reports made to NWS between 1993 and 2021.

- Flood reports outside the 100-year floodplain area are in **red**.
- Flood reports inside FEMA 100-year floodplains are in **green**.



[www.pema.pa.gov](http://www.pema.pa.gov)

Just one inch of floodwater can cause up to \$25,000 in damage. Most homeowner and renter insurance does not cover flood damage. Flood insurance is a separate policy that can cover buildings, the contents in a building, or both.

# Hazard Mitigation Planning



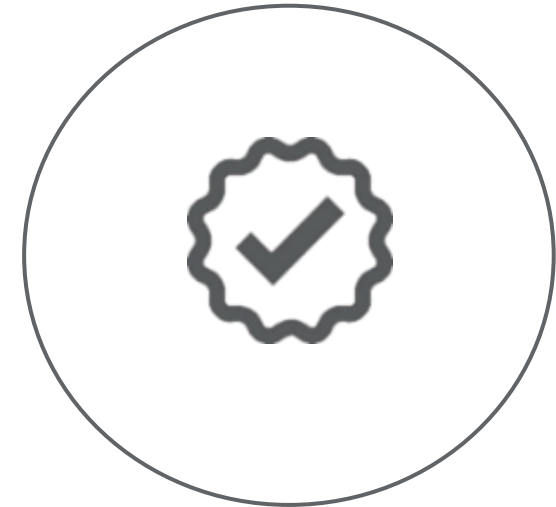
**Planning Process**



**Risk Assessment**



**Mitigation Strategy**



**Plan Adoption,  
Maintenance, and  
Implementation**

# National Risk Index

## Introducing The National Risk Index.



Avalanche



Drought



Earthquake



Hail



Hurricane



Ice Storm



Lightning



Landslide



Flooding



Strong Wind



Tornado



Tsunami



Wildfire



And more!

Learn about your community's risk to natural hazards by visiting <https://www.fema.gov/nri> today.

National Risk Index



FEMA

<https://www.fema.gov/flood-maps/products-tools/national-risk-index>

pennsylvania  
EMERGENCY MANAGEMENT AGENCY



# National Risk Index



FEMA

National Risk Index



Explore the Map

Learn More

Take Action

Risk Index

Expected Annual Loss

Social Vulnerability

Community Resilience

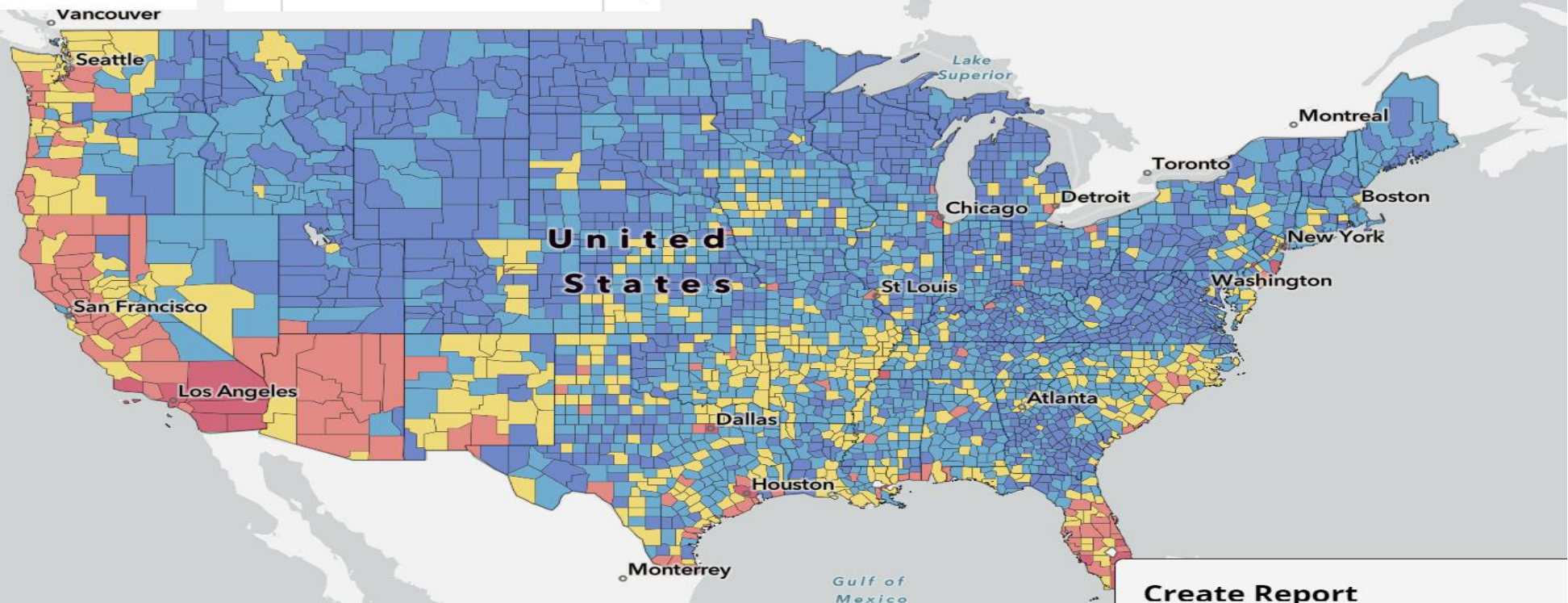


County View

Census Tract View

Calgary

Search...



Legend

Basemaps

Create Report

<https://hazards.fema.gov/nri>

# FEMA Community Lifelines

## Definition

A lifeline enables the continuous operation of **critical business and government functions** and is essential to **human health and safety** or **economic security**.

## Purpose

Root Cause Analysis

Interdependencies

Prioritization

Ease of Communication

## Assessing

Status → What?

Impact → So What?

Actions → Now What?

Limiting Factors → What's the Gap?

## Stabilization

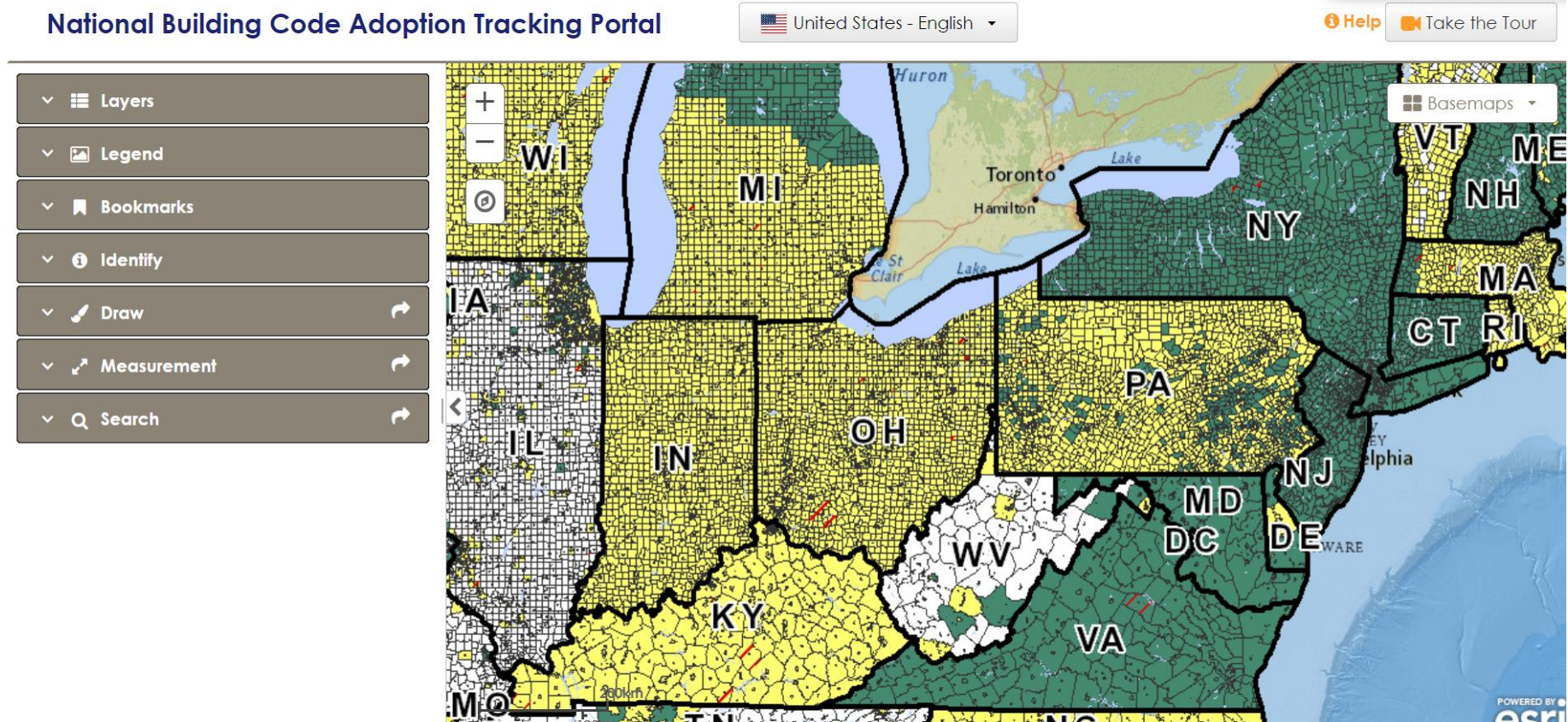
Occurs when basic lifeline services or capabilities are provided to survivors (may be temporary solutions)

COMPONENTS of Lifelines



# Nationwide Building Code Adoption Tracking (BCAT)

Building codes are the cornerstone of a resilient community, but less than 35 percent of communities have adopted the latest, most up-to-date hazard-resistant codes.

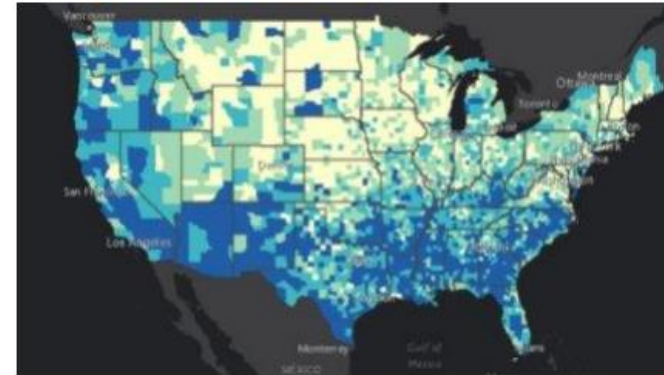
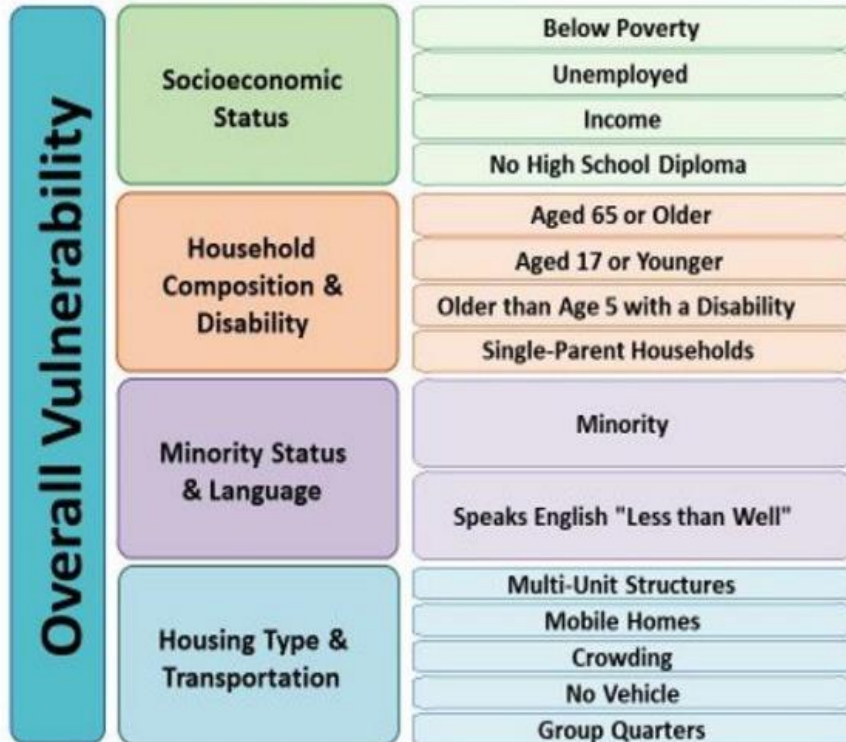


One way to check as a quick reference guide regarding local Mandatory building code adoption is to check out this online portal at: [Nationalwide Building Code Adoption Tracking | FEMA.gov](https://www.fema.gov/national-building-code-adoption-tracking)

# FMA Implementation with CDC Social Vulnerability Index (SVI)

## CDC Social Vulnerability Index (CDC SVI)

A tool to identify socially vulnerable communities **GRASP**

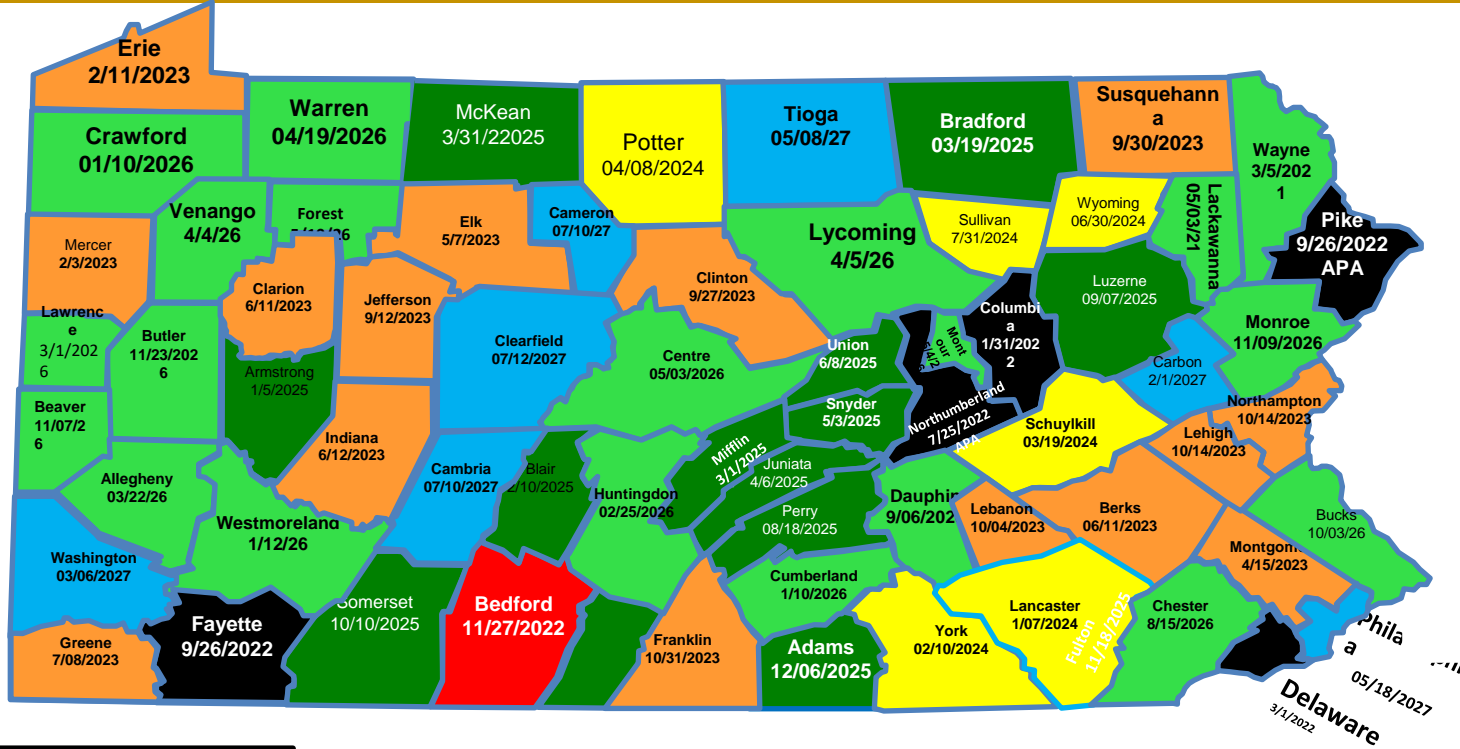


- Overall Vulnerability Score (SVI) between 0 - 1
- 0 being least vulnerable and 1 the most
- 4 themes, 15 demographic and socioeconomic indicators
- CDC updates data every 2 years with latest American Community Survey Census data
- Data available by **Census Tract** and County Crosswalk to **zip codes** (not supported by CDC)

Federal Emergency Management Agency

[CDC/ATSDR's Social Vulnerability Index \(SVI\)](#)

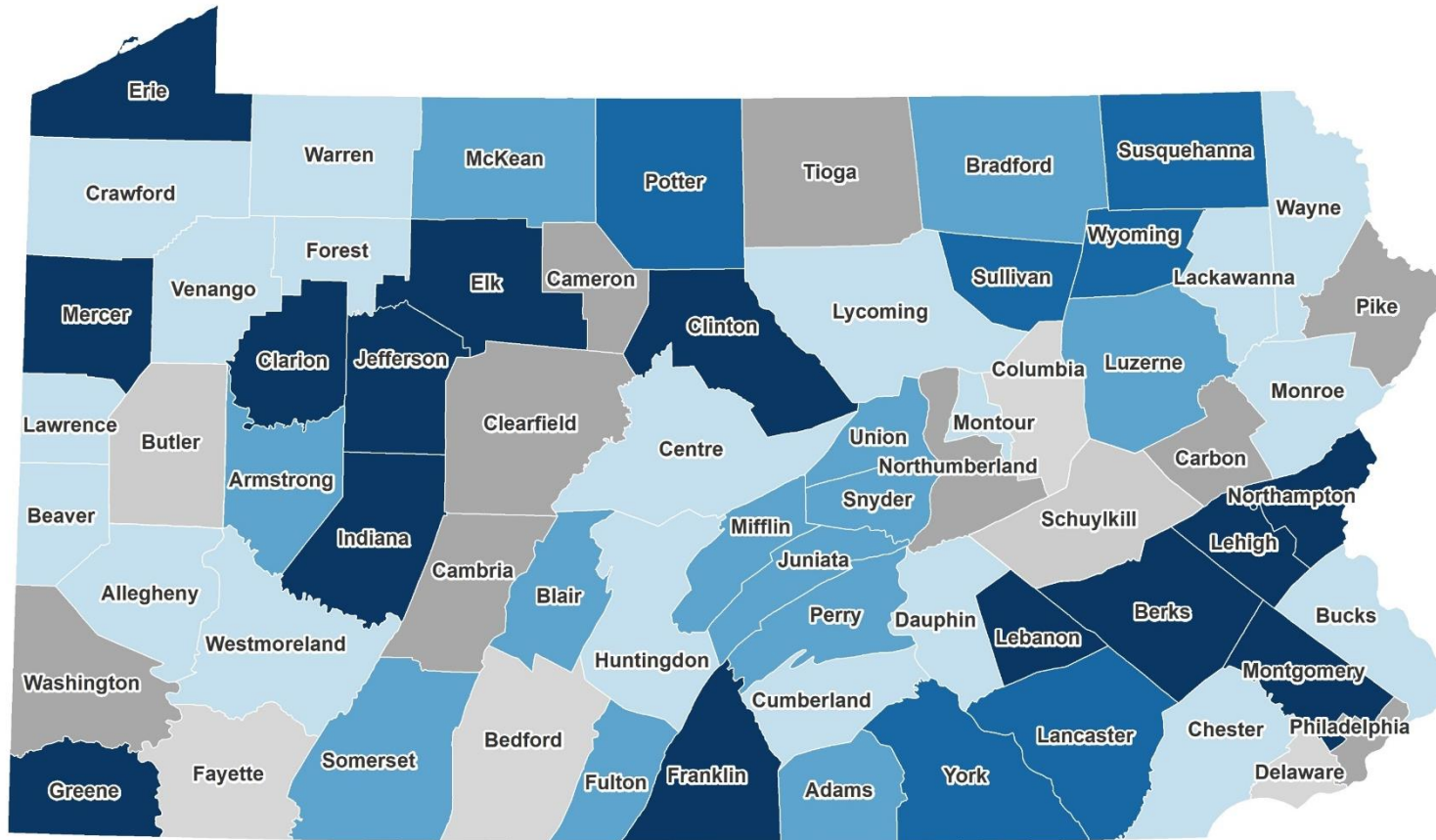
# Tracking County & Municipal Planning



**5 October 2022**

- Current plan expires 2025
- Current plan expires 2026
- Current plan expires 2024
- Current plan expires 2023
- Current plan expires 2022
- Current plan expired
- Current plan expires 2027

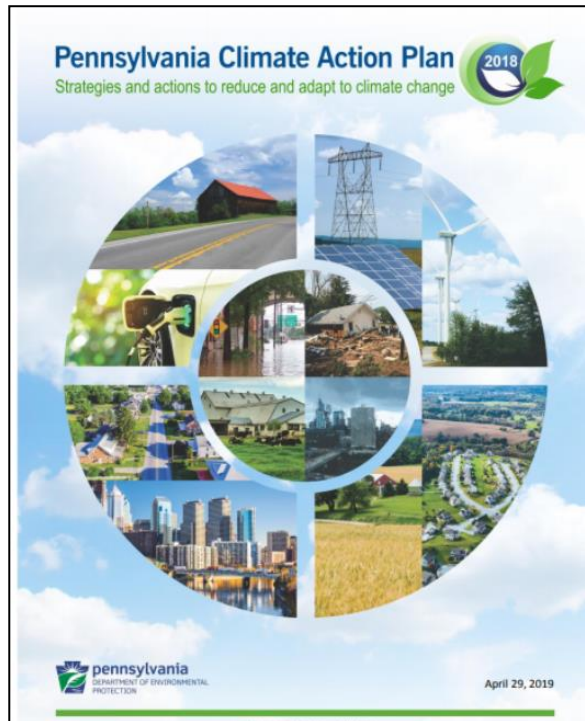
# Current County Hazard Mitigation Snap Shot



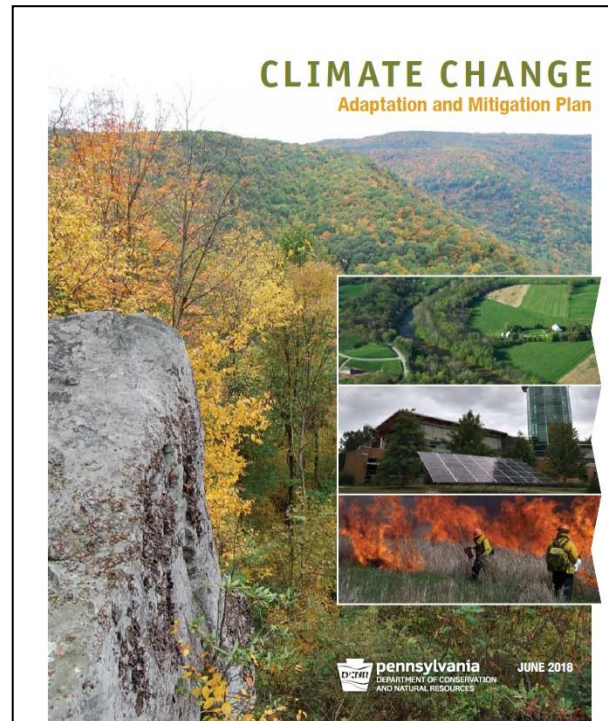
## Pennsylvania Plans within the 5-Year Planning Cycle

- Currently expired/Plan in progress
- Year 1 (expiring 2027)
- Year 2 (expiring 2026)
- Year 3 (expiring 2025)
- Year 4 (expiring 2024)
- Year 5 (expiring 2023)

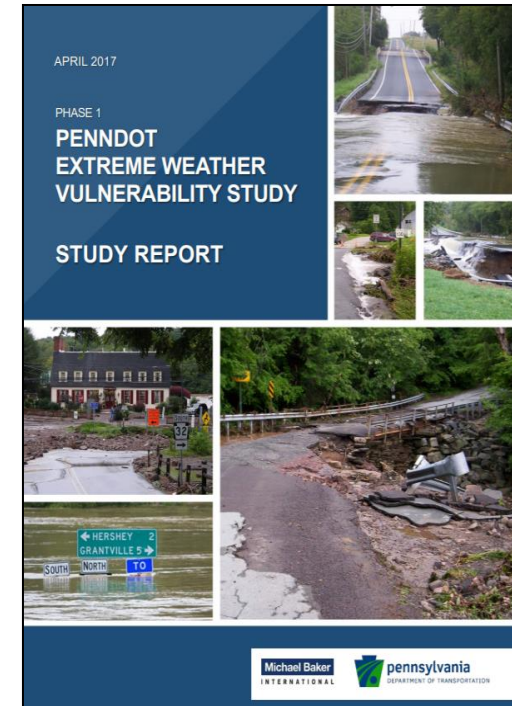
# Climate Adaptation/Future Conditions



<https://www.dep.pa.gov/Citizens/climate/Pages/PA-Climate-Action-Plan.aspx>



<http://elibrary.dcnr.pa.gov/GetDocument?docId=1743769&DocName=Climate Change Adaptation Plan Final Aug2018.pdf>



<http://s3.amazonaws.com/tmp-map/climate/doc/StudyReport-PaVulnerabilityStudy-ver040317.pdf>



# Hazard Mitigation Planning Project Update

Armstrong	Under FEMA Review
Blair	Awarded 09/23/2022
Bradford	Awarded 09/27/2022
Bucks	Under FEMA Review
Centre	Awarded 09/27/2022
Chester	Under FEMA Review
Crawford	Awarded 09/27/2022
Dauphin	Under FEMA Review
Elk	Awarded 09/27/2022
Fayette	Under FEMA Review
Forest	Awarded 09/27/2022
Fulton	Awarded 09/27/2022
Huntington	Under FEMA Review
Juniata	Under FEMA Review
Lackawanna	Under FEMA Review
Lancaster	Under FEMA Review
Lawrence	Awarded 09/27/2022
Lebanon	Under FEMA Review
Lehigh & Northampton	Under FEMA Review
Mckean	Awarded 09/27/2022
Mifflin	Under FEMA Review
Monroe	Under FEMA Review

Montour	Awarded 09/22/2022
Perry	Awarded 09/28/2022
Philadelphia	Under FEMA Review
Potter	Awarded 09/27/2022
Schuylkill	Under FEMA Review
Snyder	Awarded 09/28/2022
Somerset	Awarded 09/27/2022
Sullivan	Awarded 09/27/2022
Union	Awarded 09/27/2022
Westmoreland	Under FEMA Review
Wyoming	Awarded 09/27/2022
York	Awarded 09/27/2022
Warren	Under FEMA Review

## Color Key

With PEMA	Post Award & Grant Agreement 4-8 weeks
In NEMIS	FEMA National Emergency Management Information System (NEMIS) used to track disaster data.
Prep for FEMA	PEMA final review before submitting to FEMA.
At FEMA	FEMA final review (3-8 months).
Awarded	Awarded by FEMA
Oversubscribed	Projects that are available if more funding becomes available

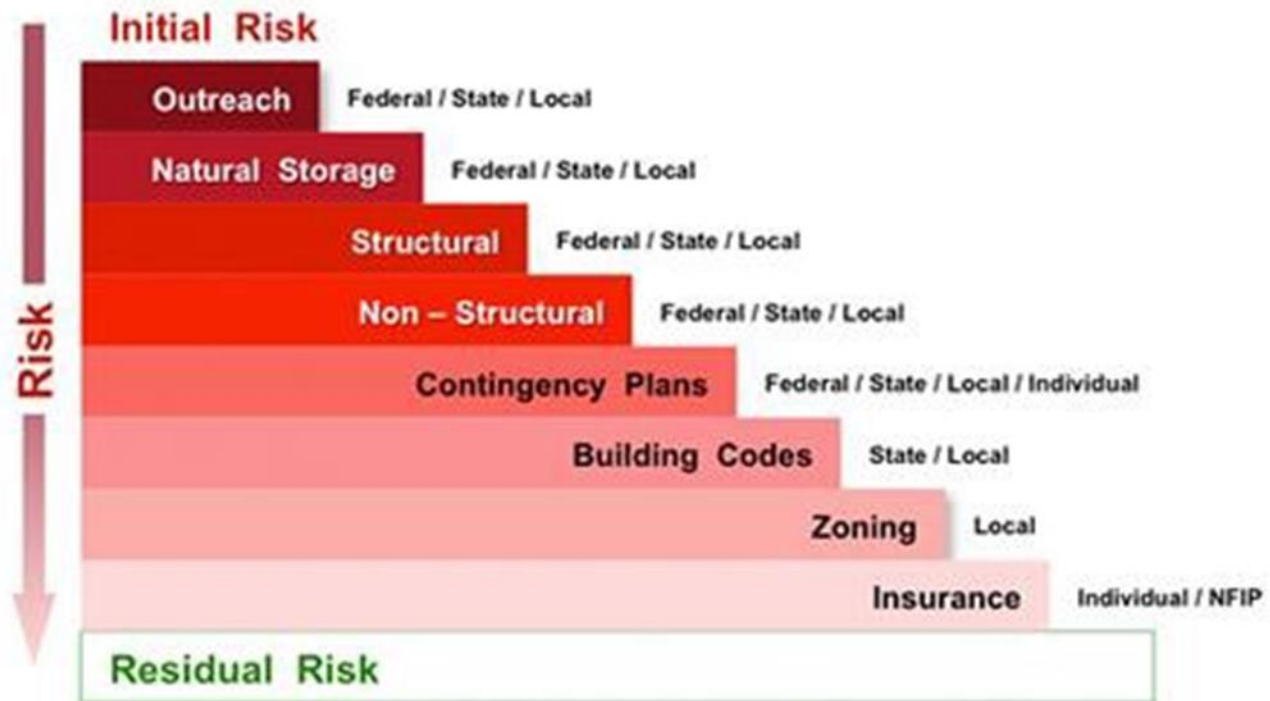
# State Enhance Hazard Mitigation Plan

MEETINGS	DATE
Risk Assessment Meeting (Virtual)	September 28
American Planning Association (APA) – PA Chapter Meeting Update	October 2 - 4
Keystone Emergency Management Association (KEMA) Conference	October 22 - 25
Land Use and Development Sector Meeting	October 11
Infrastructure Sector Meeting	October 18
Emergency Management Sector Meeting	Early November
Natural and Cultural Resources Sector Meeting	Mid-November
Economic Development Sector Meeting	Early December
Housing Sector Meeting	Early December

HMP link is here: <https://www.pema.pa.gov/Mitigation/Planning/State-Hazard-Mitigation-Plan/Pages/default.aspx>

# Risk & Residual Risk – what does it mean?

## Risk and Initial & Residual Risk



**Planned Strategies and Actions**

**Identify the Risk**  
**Mitigate the Risk**  
**Insure to the Risk**

# Project Eligible for Funding by Type

## Regular Projects



### Example(s)

- Acquisition/ Demolition
- Elevation
- Reconstruction
- Soil Stabilization
- Generator
- Stormwater Management
- Nature Based Infrastructure

## Planning Activities



### Example(s)

- Local Hazard Mitigation Plan Update
- State Hazard Mitigation Plan Update
- Hazard Mitigation Plan Addendum
- Studies

## 5% Initiative Projects<sup>1</sup>

<sup>1</sup>HMGP



### Example(s)

- Public Awareness Campaign
- Warning Signs/ Notification Systems

## Technical/ Advanced Assistance/Project Scoping Management Costs



### Example(s)

- Project Scoping
- NEPA Coordination
- Hydrology and Hydraulic (H&H) Study
- Architectural & Engineering Designs
- Benefit Cost Analysis (BCA)

# FEMA Mitigation Action Portfolio

[https://www.fema.gov/sites/default/files/2020-08/fema\\_mitigation-action-portfolio-support-document\\_08-01-2020\\_0.pdf](https://www.fema.gov/sites/default/files/2020-08/fema_mitigation-action-portfolio-support-document_08-01-2020_0.pdf) 107 Pages!



Hazard Mitigation Assistance

## Mitigation Action Portfolio



FEMA

# Mitigation Success Stories Factsheets

The Pennsylvania Silver Jackets Team's  
**Mitigation Success Story  
 Factsheets**

October 2015



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# Non-FEMA Funding Stream (non all-inclusive)

## **Addition FEMA Funding Streams:**

High Hazard Potential Dam [HHPD] (Annual Dam Safety Funding)

Community Assistance Program – State Support Services Element [CAP-SSSE]  
(Competitive Annual Allocation)

Cooperating Technical Partner [CTP] (Competitive Annual Allocation)

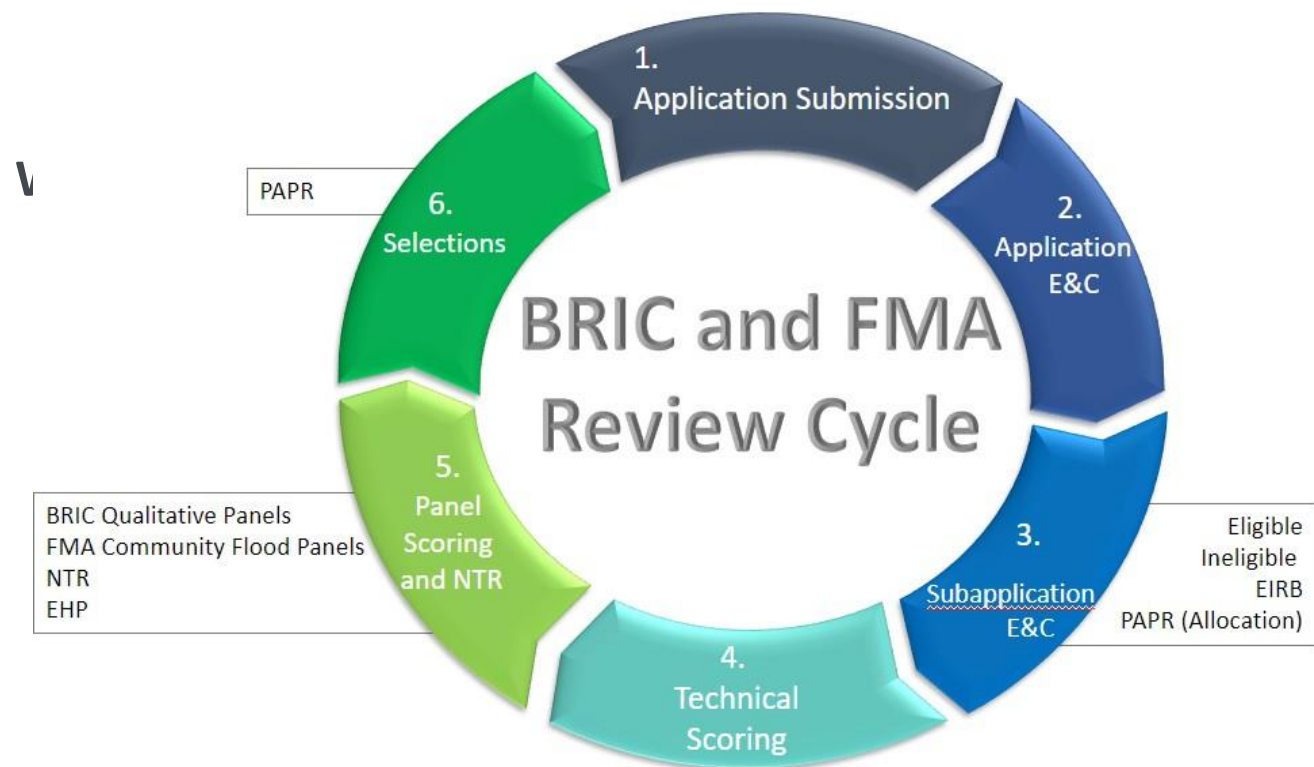
## **Addition FEMA Funding Streams:**

Community Development Block Grant-Disaster Recovery [CDBG-DR] (Disaster Allocation)

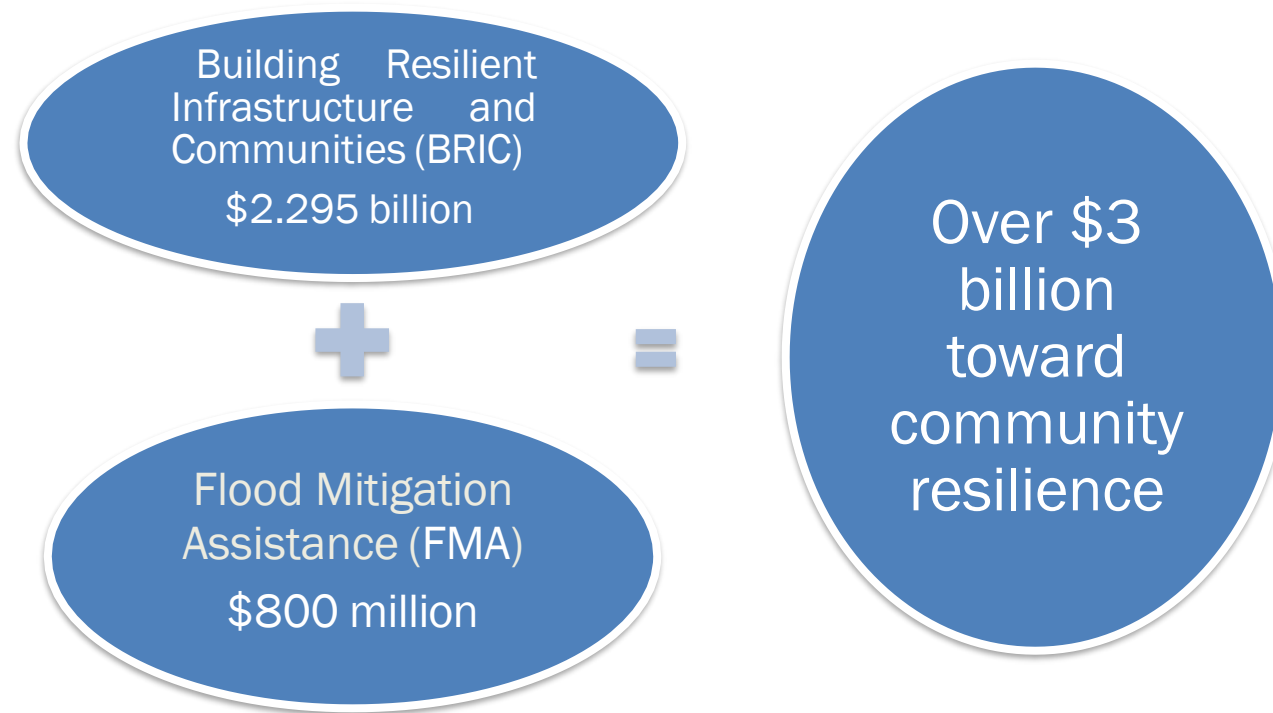
PA Infrastructure Investment Authority [PennVest] (Loan Program)

Private Sector/Non-Profit Sources for Cost Share

# Let's talk about current 2022 FMA/BRIC



# Annual Hazard Mitigation Grants



# COST SHARE REQUIREMENTS

## **Building Resilient Infrastructure and Communities:**

FEMA will pay up to 90% for Economically Disadvantaged Rural Communities

FEMA will pay up to 100% of management costs

## **Flood Mitigation Assistance:**

FEMA will pay up to 90% for Repetitive Loss properties

FEMA will pay up to 100% of Severe Repetitive Loss properties FEMA will pay up to 90% for projects benefitting areas/communities with a CDC Social Vulnerability Index greater or equal to .5001 - *New*

FEMA will pay up to the aggregate cost share of all subapplications for state management costs

# Justice40 Initiative

For Fiscal Year 2022, FEMA has made further changes to advance equity. FEMA will continue to evaluate our progress across the Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA) grant programs.

These covered programs under the Justice40 Initiative will aim to deliver at least 40% of the overall benefits of climate, clean energy, affordable and sustainable housing, clean water and other investments to disadvantaged communities.

**Disadvantaged communities may be characterized by:**



# Flood Mitigation Assistance (FMA) Eligibility Requirements

Applicants and subapplicants must have FEMA- approved hazard mitigation plans by the application deadline. They must also have approved plans when funding is obligated.

Subapplicants must participate in the National Flood Insurance Program (NFIP). They cannot be on probation or suspended.

All structures included in the project subapplications must be insured under the NFIP (**before, during, and after** the mitigation).

Verify at <https://www.fema.gov/flood-insurance/work-with-nfip/community-status-book>



# FY 2022 Flood Mitigation Assistance (FMA) – Funding Priorities

**\$800  
MILLION**

**TOTAL AVAILABLE  
FMA FUNDING  
IN FY22**

Allocated up to **\$60 MILLION**

**1 Capability and Capacity-Building (C&CB) Activities**

- › Multi-Hazard Mitigation Plans
- › Technical Assistance to States
- › Project Scoping
- › Additional C&CB Activities

Allocated up to **\$340 MILLION**

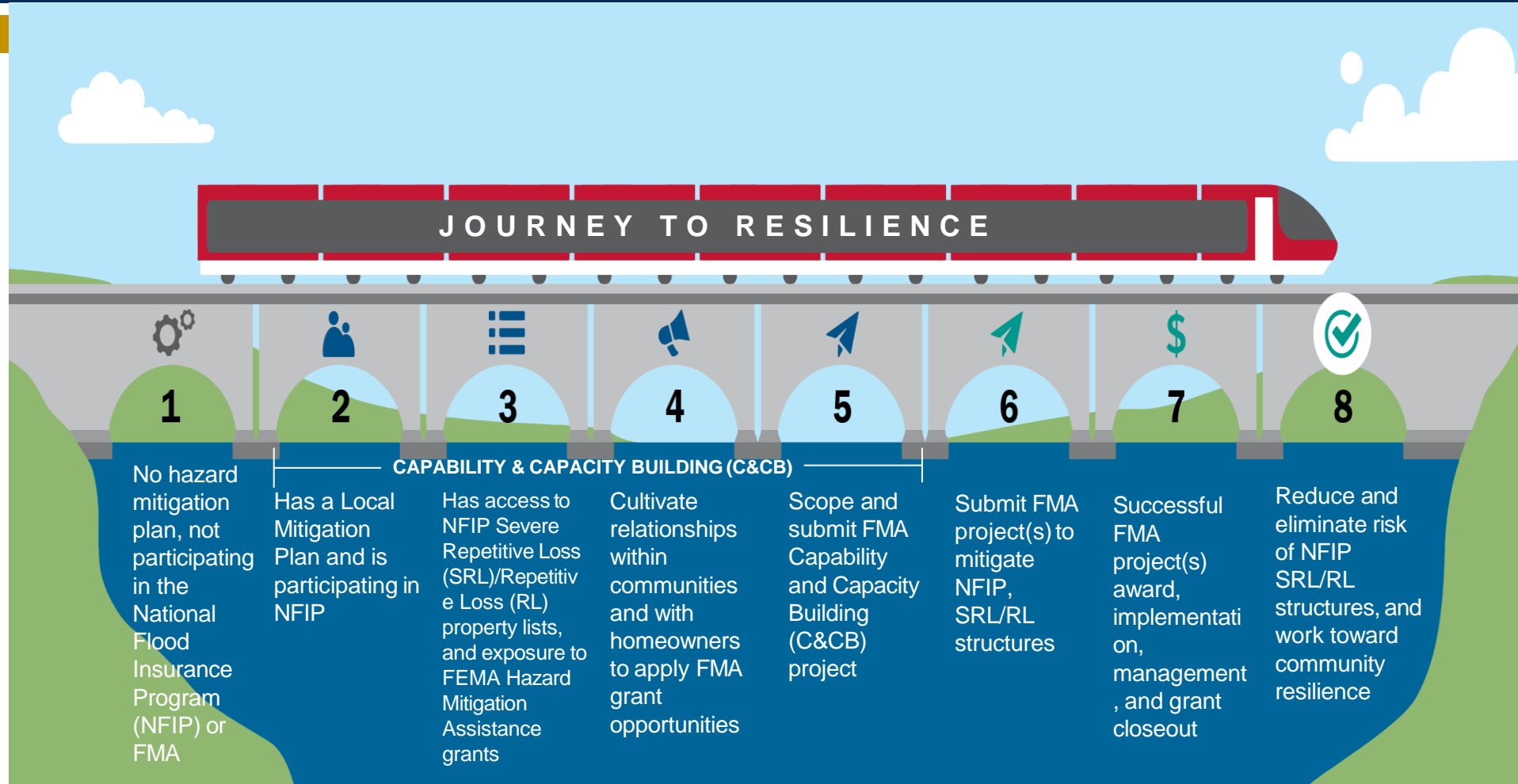
**2 Localized Flood Risk Reduction Projects**

(previously Community Flood Mitigation Projects)

At least **\$400 MILLION**

**3 Individual Flood Mitigation Projects**

# Building Community Resilience Through Flood Mitigation Assistance (FMA) Participation



# FY 2022 Flood Mitigation Assistance (FMA) Priorities

1

## Capability and Capacity-Building (C&CB) Activities - up to \$60 million

### **FEMA Grants Outcomes system entry:**

- Submit multi-hazard mitigation plan activities in a plan subapplication type
- Submit technical assistance to states and additional C&CB activities in a technical assistance subapplication
- Submit project scoping activities in a plan subapplication type

### Final Priority Scoring Criteria:

- CDC Social Vulnerability Index
- National Violation Tracker (NVT)
- Community Rating System (CRS) Participation
- Private-Partnership Cost Share
- Cooperating Technical Partners Program (CTP) Participation



# FY 2022 Flood Mitigation Assistance (FMA) Priorities (cont.)

2

**Localized Flood Risk Reduction Projects – up to \$340 million**

***FEMA Grants Outcomes system entry:***

Must be submitted in the “Flood Control” primary type,  
“Community flood control” sub-activity type

## **Final Priority Scoring Criteria:**

- National Flood Insurance Program (NFIP) Policy Holder
- CDC Social Vulnerability Index (SVI)
- Consideration of Climate Change and Other Future Conditions
- Incorporation of Nature-Based Solutions
- Severe Repetitive Loss (SRL) and Repetitive Loss (RL) Properties
- Private-Partnership Cost Share
- National Violation Tracker (NVT)
- Community Rating System (CRS) Participation
- Cooperating Technical Partners Program (CTP) Participation
- FEMA Generated Projects or Other Federal Grant Award
- Implementation Measures



# FY 2022 Flood Mitigation Assistance (FMA) Priorities

3

**Individual Flood Mitigation Projects** at least \$400 million  
**FEMA Grants Outcome (FEMA GO) system entry:**  
Must be submitted in a project subapplication

Prioritized Order:

1<sup>st</sup> Priority - Greater than or equal to 50% SRL/RL Properties

**SRL.b** **Severe Repetitive Loss (SRL) structure (ii)**  
Have at least two separate National Flood Insurance Program (NFIP) claim payments exceeding Market Value of Structure

**RL** **Repetitive Loss (RL) structure**  
Have at least two NFIP claim payments where average costs equal or exceed 25% of Market Value of Structure

**SRL.** **SRL structure (i)**  
**bi** Have at least four NFIP claim payments of \$5,000 or more, with cumulative payments exceeding \$20,000



2<sup>nd</sup> Priority - Less than 50% SRL/RL Properties

Priority Scoring Criteria Applied:

- Substantial Damage
- CDC Social Vulnerability Index
- SRL and RL Properties
- Implementation Measures

FMA Definition Citations - SRL - 42 U.S.C. § 4104c(h)(3)<sup>18</sup> and RL - 42 U.S.C. § 4121(7)





# Individual Flood Mitigation Projects



Individual Flood Mitigation Projects mitigate the risk of flooding to individual National Flood Insurance Program (NFIP) insured buildings. Eligible projects include, but are not limited to:

- Acquisition and Structure Demolition/Relocation
- Structure Elevation
- Mitigation Reconstruction
- Wet Floodproofing of Non-Residential Structures
- Dry Floodproofing of Non-Residential Structures
- Dry Floodproofing of Historic Residential Structures
- Miscellaneous/Other



# Building Resilient Infrastructure and Communities' Founding Guiding Principles

-  Support Community  
Capability & Capacity Building
-  Encourage and Enable  
Innovation
-  Promote Partnerships
-  Enable Large Infrastructure  
Projects
-  Maintain Flexibility
-  Provide Consistency

# -Applicant and Subapplicant Eligibility-

## Who is eligible for BRIC funding?

### Applicants:

- ✓ All 50 States
- ✓ U.S. territories
- ✓ Federally recognized Tribal Governments
- ✓ District of Columbia



Alaska



Hawaii



American Samoa



Guam



Northern Marianas



Puerto Rico



U.S. Virgin Islands

Federally recognized Tribal Gov'ts.

District of Columbia

### Subapplicants:

- ✓ Local Governments
- ✓ Tribal Governments
- ✓ State Agencies
- ✓ Tribal Agencies



FEMA



## **FY 2022 Building Resilient Infrastructure and Communities (BRIC) Priorities**

Incentivize natural hazard risk reduction activities that mitigate risk to public infrastructure and disadvantaged communities as referenced in EO 14008.

Incorporate nature-based solution. This includes those designed to reduce carbon emissions.

Enhance climate resilience and adaptation.

Increase funding to applicants that facilitate the adoption and enforcement of the newest editions of building codes.

BRIC encourages mitigation projects that meet multiple program priorities.

# FY 2022 Building Resilient Infrastructure and Communities (BRIC) – Uses of Assistance

## Total Available BRIC FUNDING \$2.295 Billion

Uses of Assistance	\$112M State/Territory Allocations	\$50M Tribal Set-Aside	\$2.133B National Competition for Mitigation Projects
Management Costs	✓	✓	✓
Capability and Capacity Building Activities	✓	✓	
Hazard Mitigation Projects	✓	✓	✓

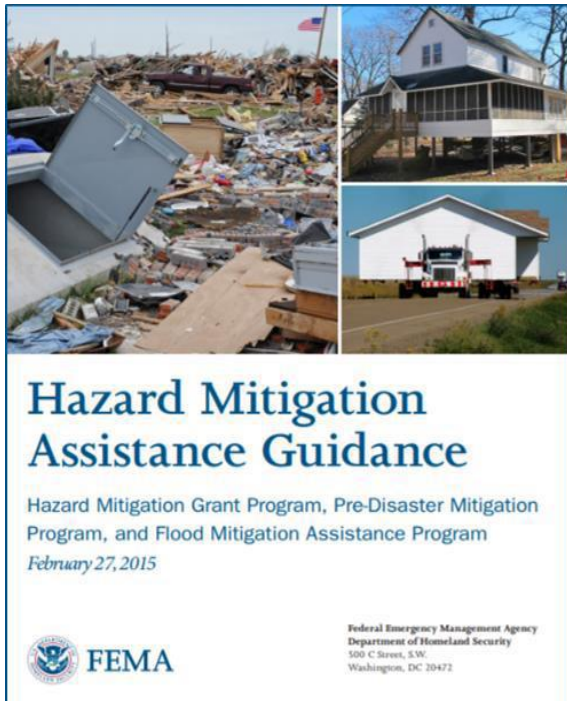
# Building Resilient Infrastructure and Communities (BRIC)

## Capability and Capacity Building Activities



# Building Resilient Infrastructure and Communities (BRIC) Eligible Activities

Existing Activities Are Still Eligible



Expanded Eligibility Includes:

- Project scoping
- Building code activities
- Pre-award costs
- Additional activities for wildfire and wind implementation (DRRA Section 1205)
- Earthquake early warning (DRRA Section 1233)

Projects Must:

- Be cost-effective.
- Reduce or eliminate risk and damage from future natural hazards.
- Meet the latest two consensus codes (i.e., 2018 or 2021 international building code)
- Align with the hazard mitigation plan.
- Meet all environmental and historic preservation requirements.

# BRIC- Technical Criteria



Infrastructure project



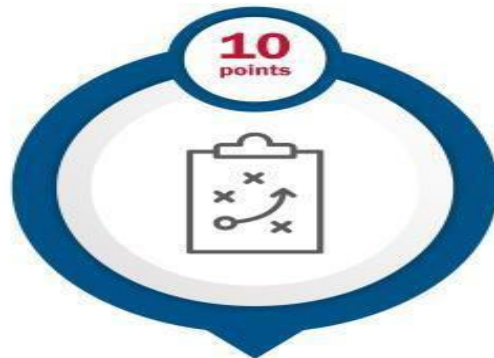
Incorporation of nature-based solutions



Applicant has mandatory tribal, territory-, or state-wide building code adoption requirement  
(recent versions of International Building Code and International Residential Code)



Subapplicant has Building Code Effectiveness Grading Schedule Rating of 1 to 5



Application generated from a previous qualifying award or the subapplicant is a past recipient of BRIC non-financial Direct Technical Assistance



A non-federal cost share of at least 30%  
(or, for Economically Disadvantaged Rural Communities, a non-federal cost share of at least 12%)



Designation as Underserved and/or Disadvantaged, including EDRC and federally recognized tribal governments

# BRIC– Qualitative Criteria



Risk Reduction/  
Resilience  
Effectiveness



Climate Change  
and Other  
Future Conditions



Implementation  
Measures



Population Impacted



Community Engagement  
and Other  
Outreach Activities



Leveraging  
Partners

# BRIC - Phased Projects



- Phased projects are where FEMA funds complex mitigation projects. Applicants can use this to develop all the technical and environmental information, including design, engineering studies and permitting, before issuing a full construction approval.
- Phasing projects allow monies to flow and good mitigation projects to be developed and evaluated without a community risking not being funded. This can be especially helpful for smaller communities.

# BRIC– Direct Technical Assistance

*Double the number of communities supported through Direct Technical Assistance*

Non-financial Direct Technical Assistance will be provided to at least **40 selected communities** to support the outcomes listed below:



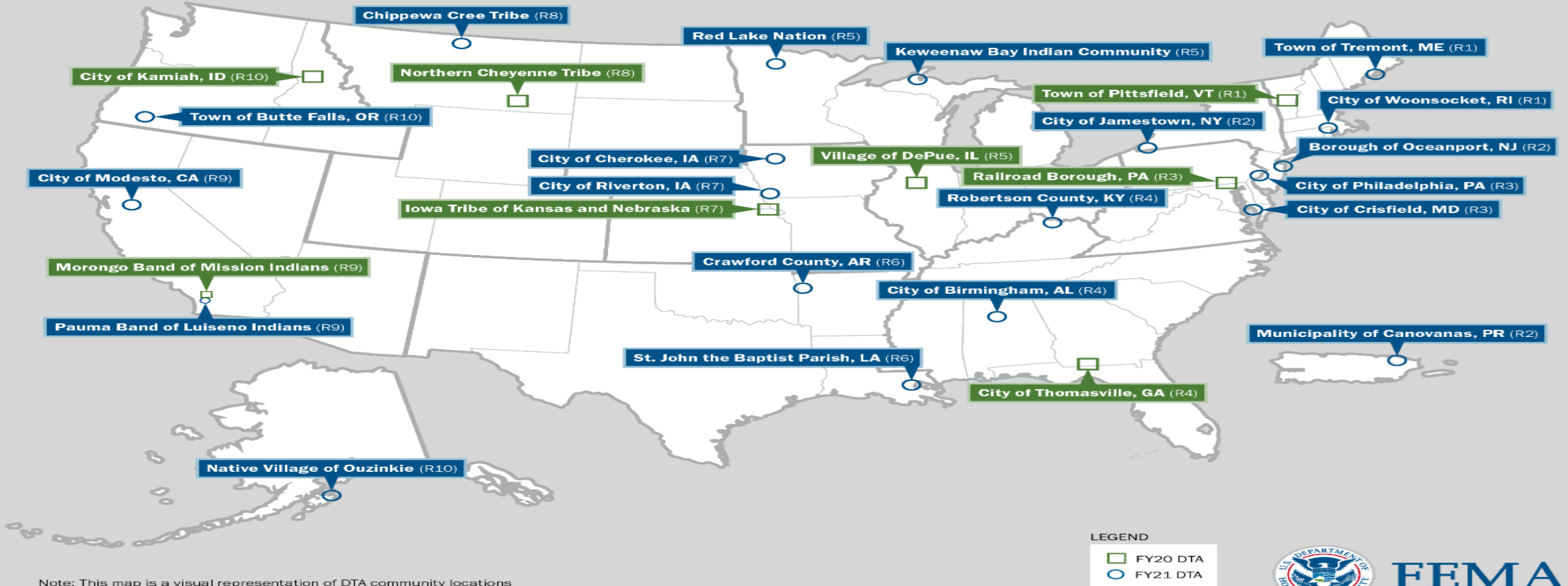
# Applying for Direct Technical Assistance (DTA)

- FEMA opened the submission period September 30, 2022. Communities interested in taking part have until January 27, 2023, to apply.
- FEMA is transforming DTA to a more flexible, customer-focused format to support more communities.
  - FEMA will publish a new form to streamline and simplify the submission process.
  - PEMA is requesting that communities interested in this program contact the PEMA EM Mitigation, Insurance & Resilient Communities Office to assist with the process to ensure required elements of support are met before applying to FEMA HQ via weblink.
  - In future years, FEMA plans on having a rolling submission period to continuously offer communities access to this assistance.
  - FEMA will share more information about DTA on the program's website: <https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities/resources>



# BRIC– Direct Technical Assistance Selected Locations

## DTA Communities



Note: This map is a visual representation of DTA community locations



FEMA



## How to Apply

Eligible Applicants must apply for funding using FEMA Grants [Outcomes \(FEMA GO\) at the FEMA GO Portal.](#)

Visit [FEMA Grants Outcome \(FEMA GO\) for Hazard Mitigation Assistance Grants to view the technical user manuals and support materials.](#)

## Application Deadlines

- The Application period opens on September 30, 2022.
- Applications must be received in FEMA GO at by January 27, 2023, at 3:00 PM Eastern Time (ET).

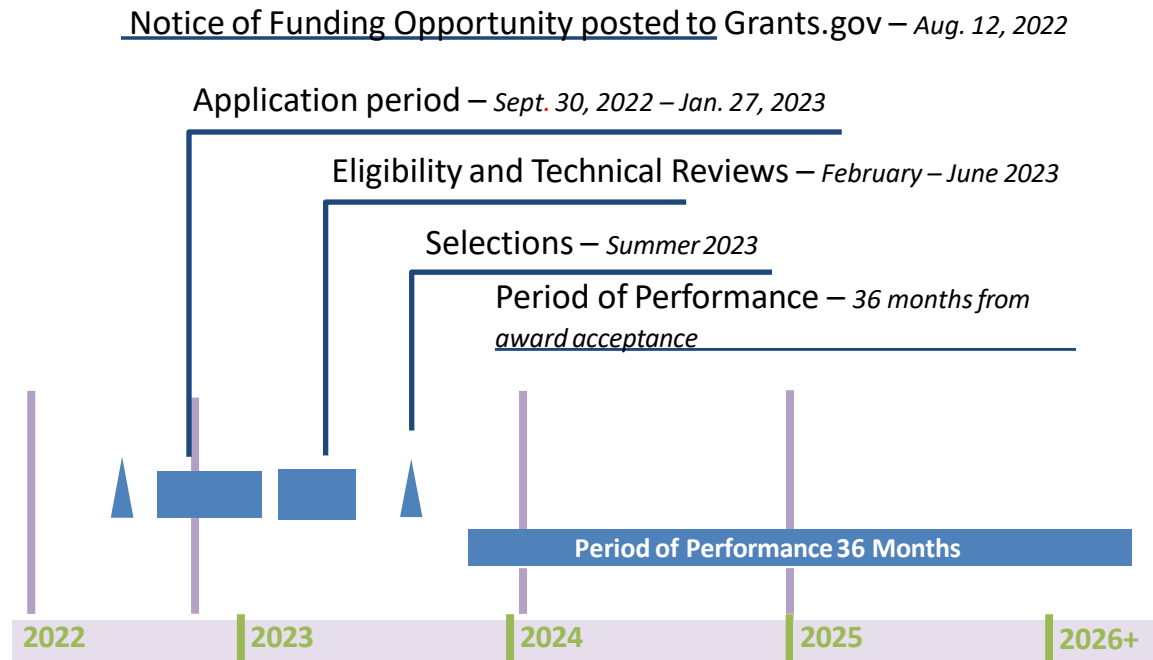
## Technical Assistance

- Applicants experiencing technical problems outside of their control must notify FEMA by 3:00 PM ET on January 25, 2023.



FEMA

# Non-Disaster Mitigation Grants Application Cycle and Funding Deadlines



Application period opens on **Sept. 30, 2022**

Submission deadline for applications is **3 P.M. ET on Jan. 27, 2023**

System-related issues must be addressed by **3 P.M. ET on Jan. 25, 2023**

Pre-Award Selection Notice: **Expected in Summer 2023**

Period of Performance:

Start Date: **When the recipient accepts the award**

End Date: All projects are **36 months** from the date of the award



# STATE 2022 Non-Disaster Grants Commonwealth of PA Timelines

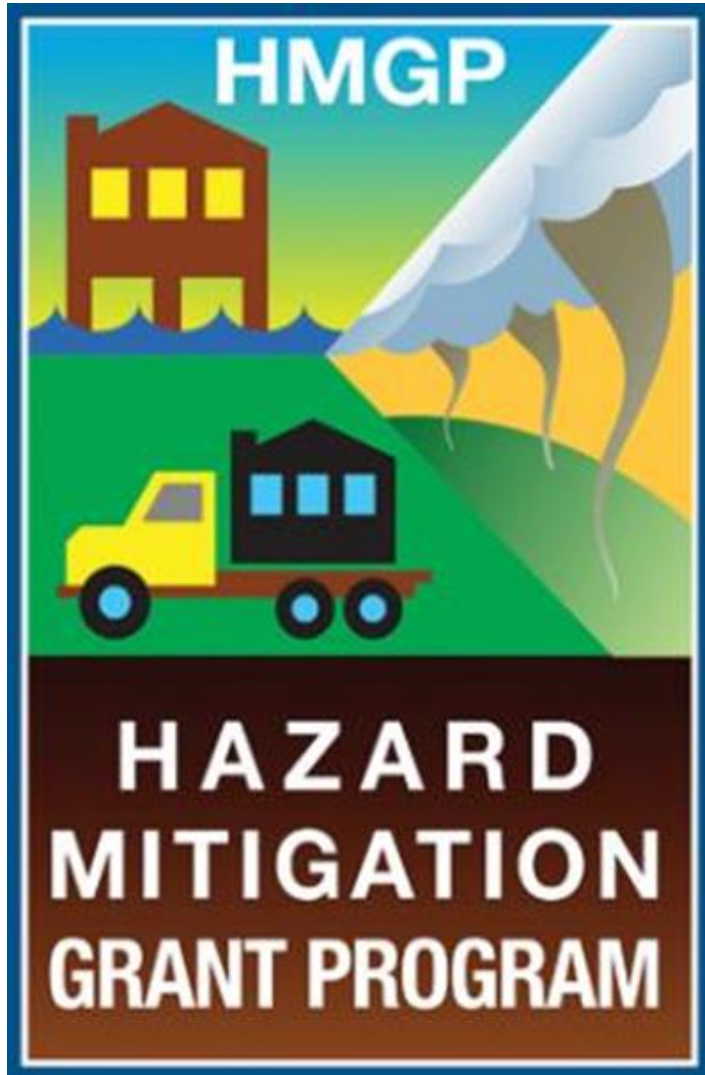
## Deadlines:

- Letter of Interest (one-pager) were due by **October 19, 2022, 1600 hours EST;**
- Entry into the FEMA Grants Opportunity once Letter of Interest is approved by PEMA;
- Cut-off of Eligible and COMPLETE applications in the **FEMA GO system is November 16, 2022, 1700 hours EST;**
- PEMA MIRC Office review for Completeness **November 17-December 2, 2022**
- State Hazard Mitigation Assistance Application Team will meet December **5-16, 2022;** and
- Based on State Team points, prioritization of State Team and FEMA requirements, enter state FMA and BRIC applications in system by **Saturday, January 21, 2022.**
- FEMA Deadline for all applications by state is **January 27, 2023.**

## PEMA Letter of Interest found here:

<https://www.pema.pa.gov/Grants/HMGP/Forms/Documents/19-Non-Disaster-HM-Grants-Letter-Of-Interest.pdf>

# Let's talk about current HMGP



- Post-disaster grant available after a **presidentially declared** disaster
- Authorized by Section 404 of the Stafford Act
- Standard Cost Share (typical across HMA): 75% Fed / 25% Non-Fed
- Subapplications are ranked by the Applicant based on State Priorities
- Project Eligibility: Funds all project types
- 7% Ceiling for Standard Plan States

# Eligible HMGP Projects

- Property Acquisition and Structure Demolition
- Structural Retrofitting of Existing Buildings/Elevation
- Structural Mitigation/Reconstruction
- Structure Relocation
- Dry Floodproofing of Historic Residential Structures
- Dry Floodproofing of Non-residential Structures
- Minor Localized Flood Reduction Projects
- Safe Room Construction
- Infrastructure Retrofit
- Structure Elevation
- Soil Stabilization
- Wildfire Mitigation
- Post-Disaster Code Enforcement
- 5% Initiative Projects (State Selected)
- Advance Assistance (Project Scoping)
- Hazard Mitigation Planning (State & Counties)

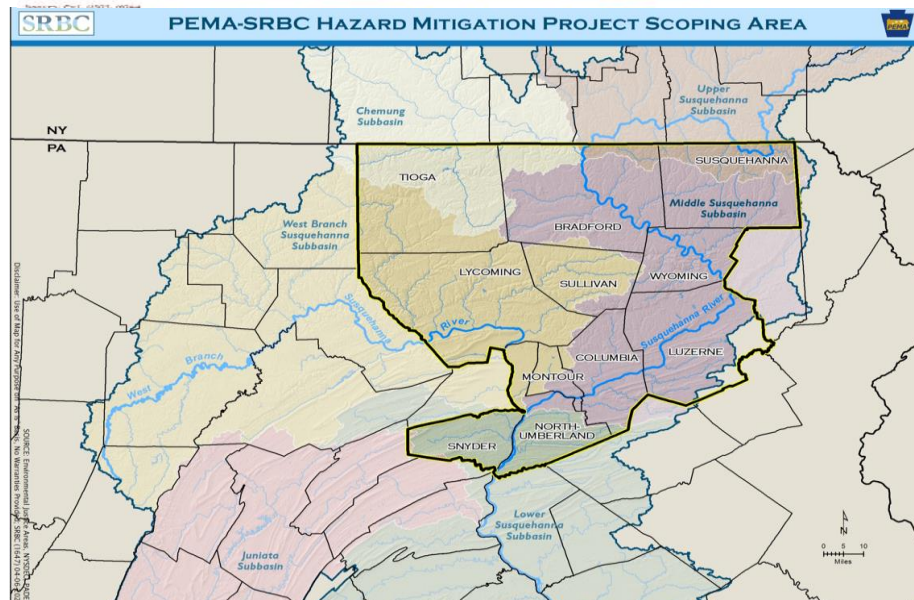
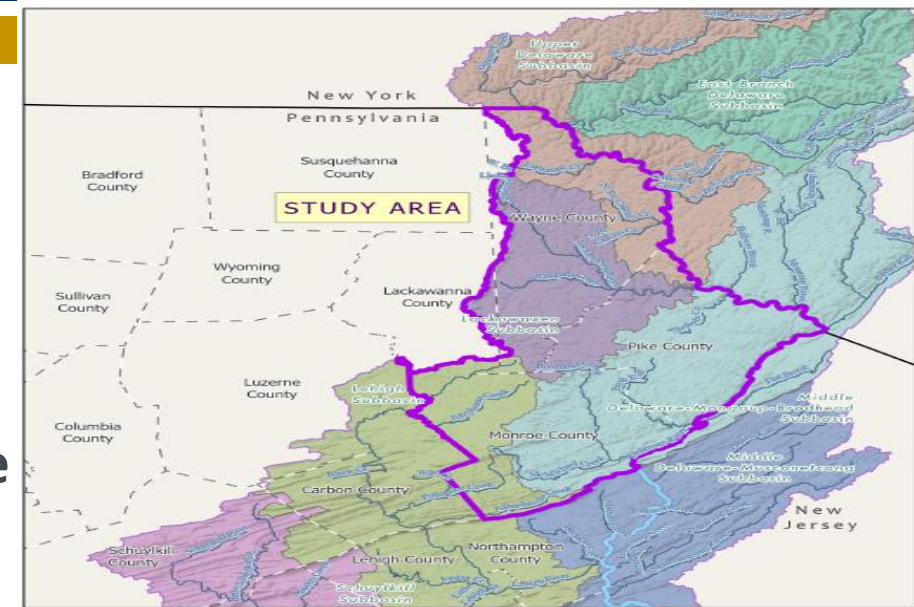


# 2019 FMA Advance Assistance/Project Scoping – Moving to other areas

- ❖ 2019 FMA Advance Assistance – Delaware River Basin Commission
- ❖ 3 Pre- Meetings for pulling what was needed together
- ❖ 1 Meeting with the counties on PIGD conduct
- ❖ 4 Meetings Day 1 – Wayne, Pike, Monroe, Lackawanna
- ❖ 2 Combined Sessions – Monroe/Pike & Lackawanna Wayne
- ❖ 3 Webinars provided to NE DRBC; Report to wrap this up.
- ❖ Has lead to Mid-DRBC and Upper PA SRBC projects rolling out soon in Late Fall 2022 and Spring/Summer 2023

## Susquehanna River Basin Commission Offerings 22/23

- ❖ Day 1 December 7/ D2 February 22 – Lycoming County
- ❖ Day 1 December 8/ D2 February 23 - Wyoming County
- ❖ Day 1 December 9/D2 February 24 - Montour County



# Structures/Digital Flood Insurance Rate Map



Cabin Club Lane area of Pocopson Township

# Discussion/ Q & A Time

Session Presented by:

**TOM HUGHES** – PEMA State Hazard Mitigation Officer, Director, (MIRC) Office

**RICK DEAL**– PEMA Deputy State Hazard Mitigation Officer, MIRC Office

**EMILY HOUDESHHELL**– NFIP Specialist, MIRC Office

**ANGEL GILLETTE** - Section Supervisor HMA Non-Disaster, FEMA Region 3



<https://www.pema.pa.gov/Grants/HMGP/PublishingImages/Pages/default/HMGP%20Disaster%20Projects%2009.30.2022.pdf>



## PA COVID-19 Pandemic DR-4506

Major Declaration Date  
March 30, 2020

Category B, Emergency  
Protective Measures

Public Assistance

## Decedent Funeral Assistance Program

### Pennsylvania

Registered Decedents	• 25,317
Avg Amt of Assistance	• \$6600
Total Amt Approved	• \$139M

As of: 9.8.22

## Cares Act Federal Assistance



**Public Assistance** - federal grants for governmental entities and certain critical, private non-profit organizations. (PA)



**U.S. Small Business Administration** - low interest loans to homeowners, renters and businesses. (SBA)



## Public Assistance



- Eligible Applicants: 746
- Projects: 1,044
- Projects Approved: 844
- Amount Obligated: \$839.7M
- Invoices PEMA Processed: 954
- Amount Processed: \$471.1M



\* Recovery Transition Meetings (RTM)  
completed: 117

As of: 10.20.22

\* FEMA ending their roll  
with the applicant.



## U.S. Small Business Administration



### Paycheck Protection Program

Loans Approved • 179,088  
Total Committed • \$9,958,345,781



### Economic Injury Disaster Loans

Applicants Approved • 104,654  
(Increase of 229 applicants since 4.14.22)

Total Committed • \$9,825,040,799  
(Increase of \$267M since 4.14.22)



## Disaster Status 4618-DR-PA



- Bedford
- Bucks
- Chester
- Delaware
- Montgomery
- Northampton
- Philadelphia
- York



## Public Assistance

**Public Assistance (PA):** Grants for government entities and certain critical, private, non-profit organizations.

- Bedford
- Bucks
- Chester
- Dauphin
- Delaware
- Fulton
- Huntingdon
- Luzerne
- Montgomery
- Philadelphia
- Schuylkill
- York



- Eligible Applicants: 204
- Projects: 771



- Projects Approved: 347
- Amount Obligated: \$17M



- Invoices PEMA Processed: 188
- Amount Processed: \$7M

\* Recovery Transition Meetings (RTM) completed: 53

\* FEMA ending their roll with the applicant.  
Data provided by FEMA. Totals as of: 10.20.22



## Individual Assistance

**Individual Assistance (IA):** For eligible individuals and households who have housing needs directly caused by the disaster and uninsured or under-insured necessary expenses and serious needs.

Valid Registrations: 78,520

### Individuals & Households Program

- Approved: 42,931
- Disbursed: \$121,182,066

### Housing Assistance

- Approved: 22,616
- Disbursed: \$90,776,321

### Other Needs Assistance

- Approved: 29,511
- Disbursed: \$29,039,025

Data provided by FEMA. Totals as of: 5.13.22



## National Flood Insurance (NFIP) Claims

Number of Claims : 1809

Claims Closed with Payments: 1,588

Net Building Payments: \$90.3M

Net Contents Payments: \$14.8M

Average Net Payment: \$66,058

Data provided by FEMA. Totals are as of: 10.19.22



## SBA Disaster Loans



Applications Received: 4,631

Applications in Process: 18

SBA Loans Approved: 1,259

Dollars Approved: \$56.6M

Data provided by the Small Business Administration.  
Totals as of: 6.3.22



## Hazard Mitigation Grant Program (HMGP)

4506-DR-PA (COVID-19)  
Disaster Award: \$59M



### Swift Current Project Locations

Funding Amount: \$5M

Project Locations:

- Modena Borough  
Chester County
- Town of Bloomsburg  
Columbia County
- West Norriton TWP  
Montgomery County
- Upper Providence TWP  
Montgomery County

### Legislative Pre-Disaster Mitigation (LPDM)



- Upper Burrell Township  
Westmoreland County

## Mitigation Projects



### 5% Initiative

Projects: 4  
Sent to FEMA: 4  
Total: \$1.3M



### Acquisition/Demolition

Projects: 17 (132 structures)  
Municipalities: 15  
Sent to FEMA: 17  
Totaling: \$44M



### Elevation

Projects: 2 (3 structures)  
Municipalities: 2  
Sent to FEMA: 2  
Totaling: \$755K



### County Mitigation Plans

Plans: 35  
Sent to FEMA: 35  
Total: \$4.2M  
Awarded: 23 County HMPs



### Advance Assistance

Projects: 7  
Municipalities: 5 (2 statewide)  
Sent to FEMA: 7  
Totaling: \$8M

State Management Costs: \$4.3M

Total Submitted to FEMA: \$63.7M



## Mitigation Projects Status

[Download a detailed list of HMGP Disaster Projects.](#)



### Oversubscribed (Remaining) Project Applications:

- Generators: 4 (3 Municipalities)
- Acquisition/Demolition: 1 (missing documentation)



## Hazard Mitigation Grant Program (HMGP)

4618 DR PA (TS Ida)

Disaster Award: \$42.3M



### Oversubscribed (Remaining) Projects

**Acquisition/Demolition**  
Projects: 3 (3 municipalities)  
Missing documentation

**Elevations**  
Projects: 1 (1 municipality)

**Advance Assistance**  
Projects: 1 (1 municipality)

**Grey Infrastructure**  
Projects: 6 (6 municipalities)

## Mitigation Projects



### 5% Initiative

Projects: 1  
Municipalities: 1  
Sent to FEMA: 1  
Total: \$154K



### County Mitigation Plans

Plans: 1  
Sent to FEMA: 1  
Total: \$250K



### Advance Assistance

Projects: 11  
Municipalities: 9  
Sent to FEMA: 4  
PEMA final review: 7  
Total: \$4.3M



### Mitigation/Reconstruction

Projects: 1 (10 structures)  
Municipality: 1  
Sent to FEMA: 0  
PEMA final review: 1  
Total: \$3.4M



### Acquisition/Demolition

Projects: 16 (111 structures)  
Municipalities: 17  
Sent to FEMA: 11  
PEMA final review: 10  
Total: \$33M



### Elevation

Projects: 3 (8 structures)  
Municipalities: 3  
Sent to FEMA: 2  
PEMA final review: 2  
Total: \$3M



### Grey Infrastructure

Projects: 9  
Municipalities: 7  
Sent to FEMA: 2  
PEMA Final Review: 7  
Total: \$5.1M



### Green Infrastructure

Projects: 6  
Municipalities: 6  
Sent to FEMA: 0  
PEMA final review: 6  
Total: \$3M

State Management Costs: \$1.1M

Total Submitted to FEMA: \$63.1M



## Mitigation Projects Status

[Download a detailed list of HMGP Disaster Projects.](#)



# 2021 FMA/BRIC Selected Projects

## Flood Mitigation Assistance

- West Pittston Borough, Luzerne County Levee Scoping \$562k
- Hempfield Township, Westmorland Co Acquisition (1) \$291k
- Flood Mitigation Assistance \$50k
- Easton Borough, Northampton County Acquisition 267k

## Building Resilient Infrastructure & Communities (BRIC)

- Jersey Shore Borough, Lawshee Run, Clinton County \$258k
- Delaware River Basin Commission (DRBC) Middle Delaware Basin Project \$200k
- Penn Lake Park Boro/Dennison Twp, Luzerne Co Dam Enhancement Project \$307.5k
- Philadelphia/Germantown Wingohocking Creek \$104k
- Orwigsburg Borough, Schuylkill Flood Mitigation \$99k
- Philadelphia Cohocksink Flood Mitigation (SWM) \$25 Million

# Working PDM/BRIC/LPDM Projects

## 2018 PDM

- Luzerne County Flood Project Authority Closure Project
- Delaware River Basin Commission (DRBC) Upper Delaware Basin (Monroe, Lackawanna, Pike, Wayne Counties)

## 2019 PDM

- Monroe, Beaver, Butler, Cambria, Delaware, Philadelphia, Pike, Tioga, Cameron, Clearfield, Bedford Hazard Mitigation Plan Updates
- State Enhanced Plan Update
- Pennsylvania Integrated Flood Observation Warning System (IFLOWs) 2.0 PS
- Penn Hills Landslide Home Acquisitions
- Mt. Washington Landslide Mitigation (CRMA) \$10 Million

# Working PDM/BRIC/LPDM Projects

## 2020 BRIC

- State Building Code Project (PEMA, PML, L&I, DCED, PADEP Energy)
- Levee Conduit Inspection Project Scoping PADEP
- Berks, Clinton, Mercer, Indiana, Erie, Jefferson & Susquehanna Counties HMP Plan Updates

## 2020 LPDM

Upper Burrell, Westmoreland County, Landslide Mitigation  
Three more Levee enhancements on table for 2021 Funds -  
Williamsport, Lycoming Co, Mayfield Borough, Lackawanna and  
Bloomsburg, Columbia Co)

# Working FMA/SWIFT Current Projects

## 2018 FMA

- Upper Providence Township, Montgomery County Acquisition
- Delaware River Basin Commission (DRBC) Lackawaxen Project State Flood Mitigation Assistance Project

## 2019 FMA









- Town of Bloomsburg, Columbia County Home Elevation (2)
- Susquehanna Delaware River Basin Commission (SRBC) Upper PA Susquehanna River Basin Project
- Yardley Borough, Bucks County – 2 Elevation Projects (9) & 1 Mitigation Reconstruction (1)
- Tinicum Township, Bucks County Elevation (4)
- Middle Paxton Township, Dauphin County Elevation (1)
- Nether Providence Township, Delaware County Acquisition (1)
- Hallam Borough, York County Acquisition (2)
- Mercer County Flood Mitigation Assistance Plan

**Swift Current FMA** – Modena Borough, Chester County, West Norriton Twp, Upper Providence Twp, Montgomery County, Town of Bloomsburg, Columbia County



**pennsylvania**  
EMERGENCY MANAGEMENT AGENCY








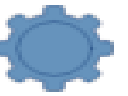
**Mitigation Projects Status: COVID-19 (DR4506) & Tropical Storm Ida (DR4618)**

County & Locations	5% Initiative Projects 	Acquisition/ Demolition 	Elevation 	Mitigation/ Reconstruction 	Advance Assistance 	Gray Infrastructure 	Green Infrastructure 	Generators 
<b>Allegheny</b> City of Pittsburgh		4618-02-002						
Oakdale Borough			4618-02-018					
Findlay Twp					4618-02-050			
<b>Bedford</b> Londonderry Twp		4506-05-002	4506-05-027					
<b>Bucks</b> Bristol Twp					4506-09-050 4506-09-051			
Bristol Borough					4506-09-033	4506-09-063 4506-09-064 4506-09-065	4506-09-031	
Middletown Twp		4506-09-024						

**Color Key**

With PEMA	Post Award & Grant Agreement 4-8 weeks
In NEMIS	FEMA National Emergency Management Information System (NEMIS) used to track disaster data.
Prep for FEMA	FEMA final review before submitting to FEMA.
At FEMA	FEMA final review (3-8 months).
Awarded	Awarded by FEMA
Oversubscribed	Projects that are available if more funding becomes available









For questions, contact PEMA, Mitigation, Insurance, & Resilient Communities Office at: [RA-SHAZMITOFF@pa.gov](mailto:RA-SHAZMITOFF@pa.gov)

County & Locations	5% Initiative Projects 	Acquisition/ Demolition 	Elevation 	Mitigation/ Reconstruction 	Advance Assistance 	Gray Infrastructure 	Green Infrastructure 	Generators 
Morrisville Bor.						4506-09-061 4506-09-062		
Northampton Twp						4506-09-060		4506-09-020
Perkasie Borough							4506-09-030	
Hulmesville Bor							4506-09-032	
<b>Chester</b> Downingtown Borough #1		4506-51-004						
Downington Borough #2		4506-51-004						
East Bradford Twp		4618-15-017						
London Grove Twp					4506-22-034			
Modena Borough				4506-15-006				
Pocopson Twp		4618-15-004						
Tredyffrin Twp (Park Drive)		4506-15-005						
Tredyffrin Twp (Yellow Springs)		4506-15-007						
Willistown Twp						4618-15-060		
<b>Columbia</b> Town of Bloomsburg					4506-19-005			
<b>Clinton</b> Renovo Borough		4618-18-005						

**Color Key**

With PEMA	Post Award & Grant Agreement 4-8 weeks
In NEMIS	FEMA National Emergency Management Information System (NEMIS) used to track disaster data.
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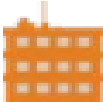




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County & Locations	5% Initiative Projects 	Acquisition/ Demolition 	Elevation 	Mitigation/ Reconstruction 	Advance Assistance 	Gray Infrastructure 	Green Infrastructure 	Generators 
<b>Dauphin</b> City of Harrisburg					4618-22-029			
Lower Swatara Twp		4618-22-007						
Highspire Boro						4618-22-040		
Londonderry Twp								4506-22-020
<b>Delaware</b> Brandywine Conservancy	4506-23-15		4618-23-003		4506-23-050			
Ridley Twp		4506-23-008						
Upland Boro		4506-23-007						
Upper Chichester		4506-23-009						
<b>Fayette</b> Connellsville (City)		4618-28-008						
<b>Franklin</b> Chambersburg Bor		4618-28-009						
<b>Lackawanna</b> Moosic Bor Jessup Bor Scranton					4618-46-039 4618-35-040 4618-35-024			
Mayfield Borough						4506-35-070 LPDM		
<b>Lancaster</b> Lancaster City					4506-36-042			
Manheim Borough					4506-36-041			
<b>Luzerne</b> Penn Lake Park Borough					4618-40-031 FMA 2021			

**Color Key**

With PEMA	Post Award & Grant Agreement 4-8 weeks
In NEMIS	FEMA National Emergency Management Information System (NEMIS) used to track disaster data.
Prep for FEMA	PEMA final review before submitting to FEMA.
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County & Locations	5% Initiative Projects 	Acquisition/Demolition 	Elevation 	Mitigation/Reconstruction 	Advance Assistance 	Gray Infrastructure 	Green Infrastructure 	Generators 
West Pittston Boro					4506-40-043 FMA 2021			
<b>Lycoming County</b>		4618-41-010						
<b>Montgomery County</b>		4506-46-010						
Bridgeport Bor								
Cheltenham Twp		4618-46-020				4618-46-050	4506-46-031	
Collegeville Bor		4506-46-011				4506-46-050		
Green Lane Bor		4506-46-012						
Green Lane Bor Historic Home		4506-46-027						
Green Lane – Marlborough JTA						4618-46-051		
Hatboro Borough		4506-46-028						
Hatfield Twp		4506-46-016						
Lower Providence Twp		4506-46-013						
Marlborough Twp		4506-46-014						
Perkiomen Twp		4506-46-015						
Skippack Twp		4506-46-025						
Upper Moreland Twp		4618-46-012						
Upper Providence Twp 1		4506-46-026-01						

**Color Key**

With PEMA	Post Award & Grant Agreement 4-8 weeks
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County & Locations	5% Initiative Projects 	Acquisition/ Demolition 	Elevation 	Mitigation/ Reconstruction 	Advance Assistance 	Gray Infrastructure 	Green Infrastructure 	Generators 
Upper Providence Twp 2		4506-46-026-02						
West Norriton Twp		4618-46-013	4618-46-020					
Whitemarsh Twp		4506-46-017						
Lower Merion Twp							4506-46-030	
Upper Dublin Twp							4506-46-032	
<b>Northampton</b> Combined		4506-48-021	4506-46-030					
<b>Northumberland</b> Shamokin/Coal Twp JTA						4506-49-002		
<b>Philadelphia</b> Philadelphia City					4506-51-035 4506-51-036 4506-51-037			
<b>Schuylkill</b> Orwigsburg Borough		4506-54-046			4506-54-050			
<b>Snyder</b> Selinsgrove Bor			4618-55-021					
<b>Tioga</b> Gaines Twp						4506-59-090		
<b>Washington</b> North Strabane Twp		4618-63-015						
Smith Twp		4506-63-001						
<b>Wayne</b> Honesdale Borough					4506-64-050			

**Color Key**

With PEMA	Post Award & Grant Agreement 4-8 weeks
In NEMIS	FEMA National Emergency Management Information System (NEMIS) used to track disaster data.
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Oversubscribed	Projects that are available if more funding becomes available

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County & Locations	5% Initiative Projects 	Acquisition/ Demolition 	Elevation 	Mitigation/ Reconstruction 	Advance Assistance 	Gray Infrastructure 	Green Infrastructure 	Generators 
<b>Westmoreland</b> Hempfield Twp		4618-65-016 FMA 2021						
Salem Twp FD Salem Twp Muni								4506-65-020 4506-65-021
<b>York</b> Dover Twp		4506-67-023						
Warrington Twp							4506-67-030	
New Freedom Twp						4506-67-040		
Springfield Twp						4506-67-041		
Railroad Borough					4506-67-050			
<b>Statewide</b> Ruffed Grouse Soc.					4506-00-005			
PEMA IFLOWS	4506-00-006							
PSU Flood Insurance Study	4506-00-007							
PA DCNR	4506-00-008 4506-00-009							

**Color Key**

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# Example FEMA FMA Elevation Project



*Home Elevation, Lower Makefield Township,  
Bucks County \$222,600.00 (2,280 Square Feet)*

# Use of Increase Cost of Compliance



**Substantially Damaged  
150 Clifton Drive  
Bloomsburg PA 17815**



# Yardley Borough, Bucks County



# Yardley Borough, Bucks County



# Yardley Borough, Bucks County



# MIT/RECON Yardley Borough, Bucks County



# MIT/RECON Yardley Borough, Bucks County



# MIT/RECON Modena Borough, Chester County



# MIT/RECON Modena Borough, Chester County

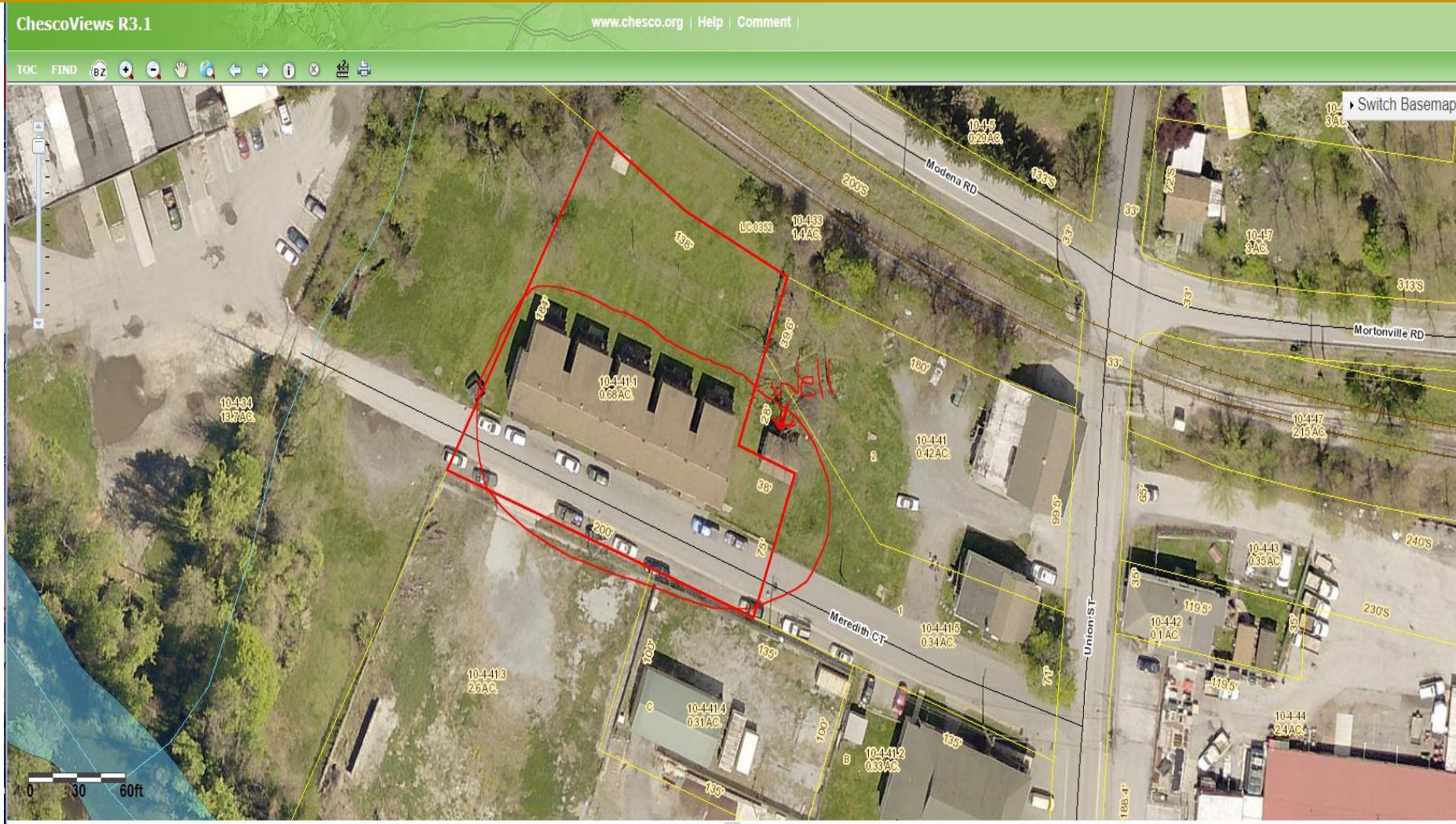


# MIT/RECON Modena Borough, Chester County



Pump/Well House

# MIT/RECON Modena Borough, Chester County





# Thank You & Closing Comments

FEMA Region 3

PEMA