



Rockland County Hazard Mitigation Plan 2024 Update

Planning Partnership Kick-off Meeting

October 4, 2023 | 10:00 am





Today's Agenda

1. Welcome and Introductions
2. Hazard Mitigation Planning Overview
3. Project Organization
4. Planning Partnership Responsibilities
5. Planning Process Overview
6. Schedule
7. Questions/Next Steps/Wrap Up





Hazard Mitigation Overview

Mitigation planning happens before a disaster strikes. It results in safer, more resilient communities – reducing risk for the residents, businesses, and critical services in Rockland County.

Hazard Mitigation Planning Overview



- ✓ Authorized by the Disaster Mitigation Act of 2000
- ✓ Provides an overview of the impacts of natural hazards on communities
- ✓ Provides a roadmap to reducing the impact of these hazards
- ✓ Requires a FEMA-approved natural hazard mitigation plan to be eligible for Pre-Disaster Mitigation Funding
- ✓ 5-year updates required to maintain eligibility

- 1) What is hazard mitigation?
- 2) Why update the plan?
- 3) What's new for the 2024 HMP?
- 4) What is the process?

What is Hazard Mitigation?

Mitigation is a sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event


-or-

Any action taken to reduce future disaster losses



“...provides the blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and local ability...” (CFR).

Why Update?

- The mitigation plan update will:
 - Help prepare for and mitigate hazards
 - Eligibility for pre- and post-disaster mitigation funding
 - Since 2006, Rockland County received over \$13 million in FEMA funding for planning, acquisitions, culvert improvements, and infrastructure projects
 - Incorporate new FEMA requirements
 - Support CRS participation/rating
- What is at risk in Rockland County?
- Which hazards should we include in the update?
 - **Scan this code to tell us!** 



January 2018 – July 2023	
Hazard	Occurrences
Drought Conditions	4
Earthquake	3
Extreme Temperature (heat/cold)	N/A
Flood	23
Severe Weather	32
Severe Winter Weather	21
Wildfire	5
TOTAL	88

Sources: NOAA NCEI 2023; NYSDEC 2023; USGS 2023; USDM 2023



Differences from the 2018 Planning Process

 Involvement – engaged and actively participating

 Public and stakeholder outreach

 Community Lifelines and Critical Facilities

 Socially vulnerable and underserved communities

 Climate change

 Mitigation actions for every hazard of concern





Project Organization

Working with individuals, agencies, neighboring jurisdictions, businesses, and other partners for a successful mitigation planning process.

Project Organization



Core Planning Team
Rockland County
Emergency Services
Tetra Tech



Steering Committee

Planning Partnership



Stakeholders



FEMA



NYSDHSES and FEMA



Planning Partnership Roles and Responsibilities

- Actively participate throughout the process
 - Assist with the update of your jurisdictional annex
 - Attend planning partnership meetings/workshops – like this one!
 - Provide data and information in a timely manner
 - Support public and stakeholder outreach in your jurisdiction
 - Review and provide feedback on Draft and Final Plan documents
 - Facilitate the adoption process – governing body must pass an Adoption Resolution
 - Implement and Maintain the Plan
- Return your Letter of Intent to Participate (LOIP) to let the County know you will be participating in the 2024 process



Letters of Intent to Participate

Jurisdiction	LOIP Received?
Airmont (V)	X
Chestnut Ridge (V)	
Clarkstown (V)	X
Grand-View-on-Hudson (V)	X
Haverstraw (T)	X
Haverstraw (V)	
Hillburn (V)	
Kaser (V)	X
Montebello (V)	X
New Hempstead (V)	X
New Square (V)	
Nyack (V)	X

Jurisdiction	LOIP Received?
Orangetown (T)	X
Piermont (V)	X
Pomona (V)	
Ramapo (T)	X
Sloatsburg (V)	
Spring Valley (V)	X
Stony Point (T)	X
Suffern (V)	
Upper Nyack (V)	
Wesley Hills (V)	X
West Haverstraw (V)	





Planning Process Overview

A well-defined planning process is essential to the success of Rockland County's HMP Update.

Planning Process Overview



Phase 1 – Organize Resources



Core Planning Team
Rockland
County Planning
Tetra Tech



Steering Committee

Planning Partnership



Stakeholders



FEMA

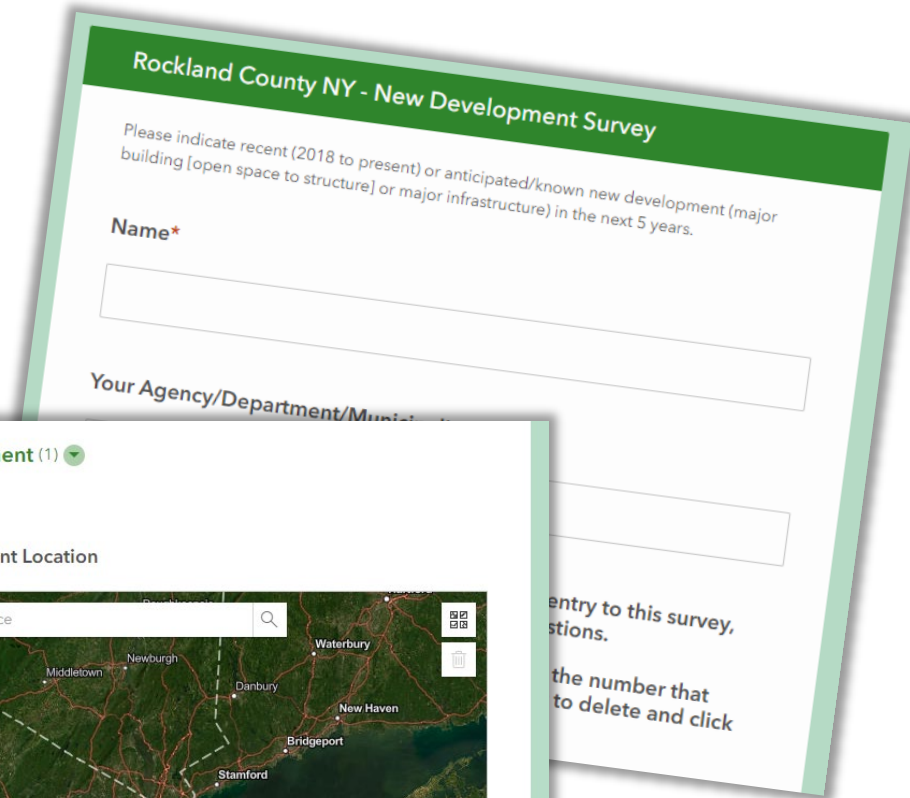


**NYSDHSES
and FEMA**



Data Collection

- Reviewing existing plans, studies, and data
- Understanding where development is occurring
 - Provide input online – <https://arcg.is/1f5qaX>
- How many NEW building permits have you issued since 2018?
 - Complete in your annex

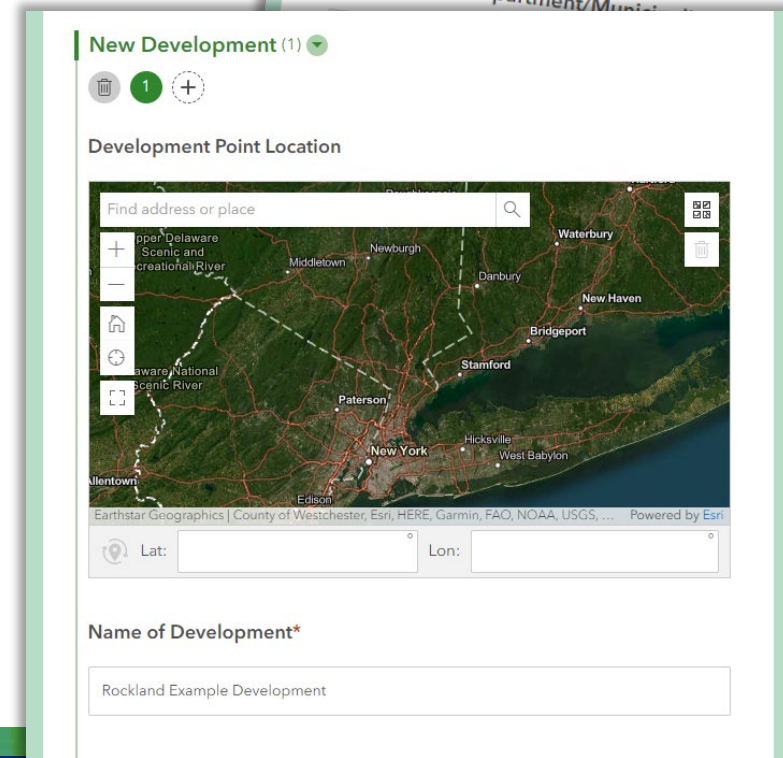


Rockland County NY - New Development Survey

Please indicate recent (2018 to present) or anticipated/known new development (major building [open space to structure] or major infrastructure) in the next 5 years.

Name*

Your Agency/Department/Municipality



New Development (1)

Development Point Location

Find address or place

Map showing Rockland County, NY with labels for Newburgh, Danbury, New Haven, Bridgeport, Stamford, Paterson, New York, Hicksville, West Babylon, Edison, and Monticello.

Lat: _____ Lon: _____

Name of Development*

Rockland Example Development

entry to this survey,
 stions.
 the number that
 to delete and click



New and Proposed Development

Rockland County NY - New Development Survey

Please indicate recent (2018 to present) or anticipated/known new development (major building [open space to structure] or major infrastructure) in the next 5 years.



Name*

Your Agency/Department/Municipality*

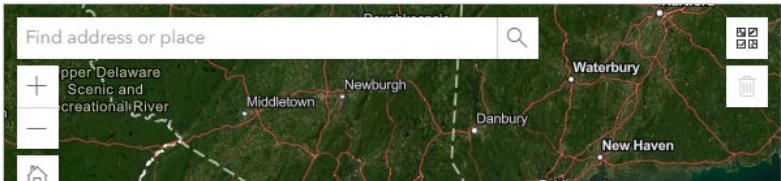
To **add** more than one new development project entry to this survey, select the (+) below and answer the required questions.

To **delete** a new development project entry, select the number that represents the new development project you want to delete and click on the garbage can.

New Development (1) ▼

 **1** 

Development Point Location



Name of Development*

Address/Block Lot*

Date of Development*

-Please select- ▼

Type of Development*

-Please select- ▼

Number of Units/Structures*

If there are no units, please indicate not applicable.

Status*

Please indicate the status that best fits the development (e.g., anticipated, in progress, approved by board, completed).

-Please select- ▼

Building Permits

Type of Development	2018		2019		2020		2021		2022	
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family										
Multi-Family										
Other (commercial, mixed-use, etc.)										
Total New Construction Permits Issued										

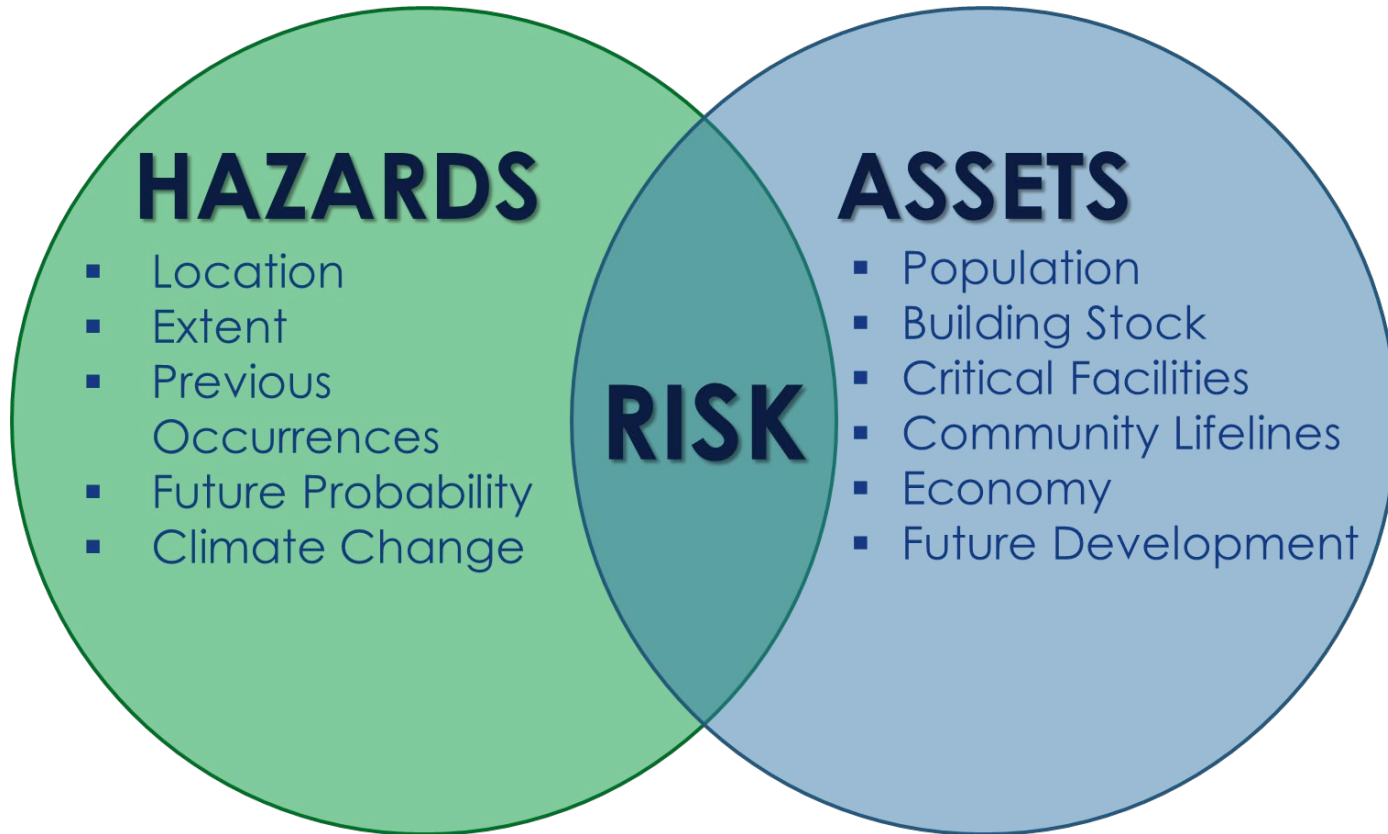


Social Vulnerability

- **Identify socially vulnerable populations and underserved communities in your annex**
 - How will we incorporate socially vulnerable populations in Rockland County?
 - Need to include throughout the planning process – outreach, risk assessment, mitigation strategy, etc.
 - Think about mitigation actions to help your community assist underserved communities and socially vulnerable populations before, during, and after a disaster.



Phase 2 - Risk Assessment



- Review and update list of hazards of concern
- Update hazard profiles
- Complete risk assessment
- Review risk assessment results with Steering Committee and Planning Partnership

Hazards of Concern

Dam Failure



Disease Outbreak



Drought



Extreme Temperature



Earthquake



Landslides



Flood



Severe Weather



Severe Winter Weather

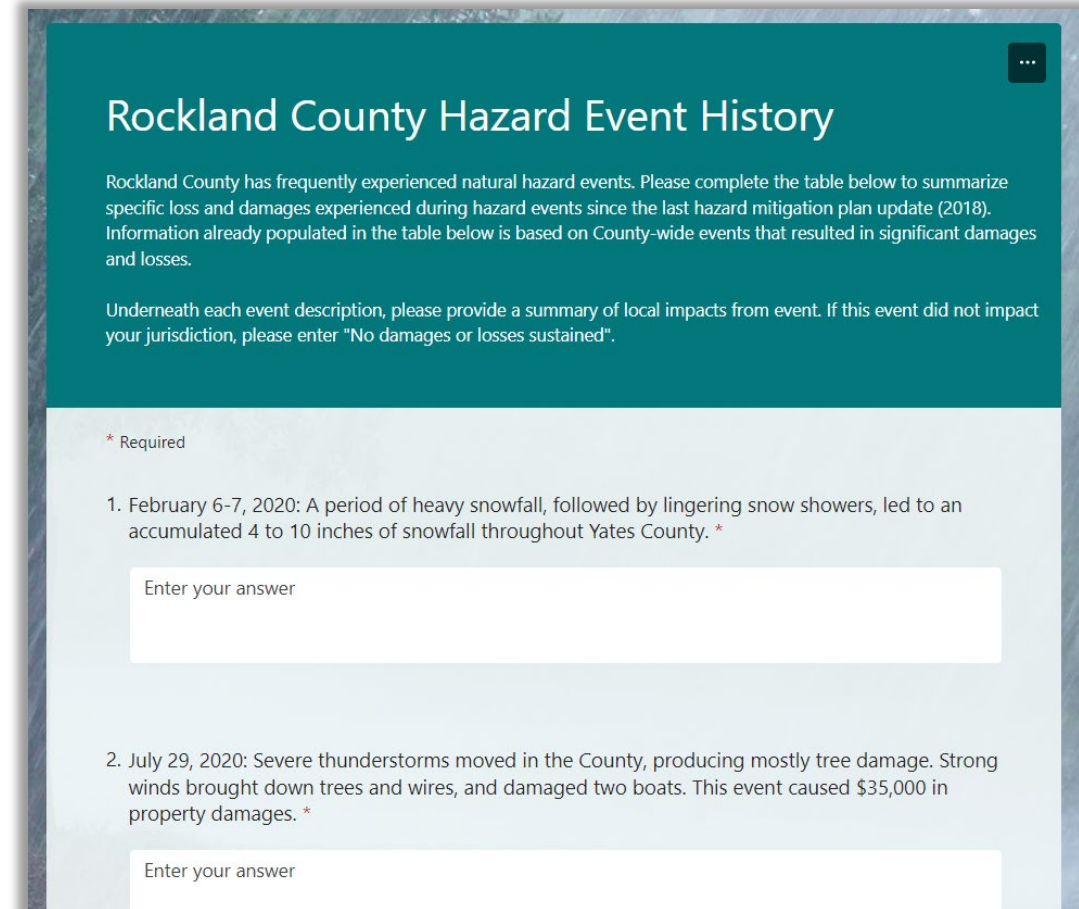


Wildfire



Hazard Event History

- We need to know how events have impacted your community since 2018
 - What events caused damage in your community? What was the damage?
 - Provide input online (<https://forms.office.com/r/52LaiAQVix>) or in your annex



Rockland County Hazard Event History

Rockland County has frequently experienced natural hazard events. Please complete the table below to summarize specific loss and damages experienced during hazard events since the last hazard mitigation plan update (2018). Information already populated in the table below is based on County-wide events that resulted in significant damages and losses.

Underneath each event description, please provide a summary of local impacts from event. If this event did not impact your jurisdiction, please enter "No damages or losses sustained".

* Required

1. February 6-7, 2020: A period of heavy snowfall, followed by lingering snow showers, led to an accumulated 4 to 10 inches of snowfall throughout Yates County. *

Enter your answer

2. July 29, 2020: Severe thunderstorms moved in the County, producing mostly tree damage. Strong winds brought down trees and wires, and damaged two boats. This event caused \$35,000 in property damages. *

Enter your answer

Problem Areas

- Where are your problem areas? This can include floodprone areas, stormwater flooding, critical facilities without backup power, etc.
 - Provide input online - <https://arcg.is/1Svra01>

Rockland County NY - Problem Areas Survey

This survey tool helps the County identify problem areas to inform the Hazard Mitigation Plan update. In the fields below, please identify the location of the problem related to one of the hazards of concern that we are evaluating. You can also drop a pin on the map to show the exact location. Pick the type of problem you face from the dropdown, and tell us about the problem.

Name:*

Problem Type:*

Please select the problem in your community.

Name of Location:

Please provide the name of the area affected by the problem (i.e., building name), if it has a name.

Describe the Location:*

Please provide the street address (e.g., 123 Main Street), intersection, or other location description.

Describe the problem:*

Please provide details about the problem (e.g., intersection floods during heavy rain events and road needs to close; or police station basement floods with several centimeters of water).

What group is responsible to help resolve the problem?*

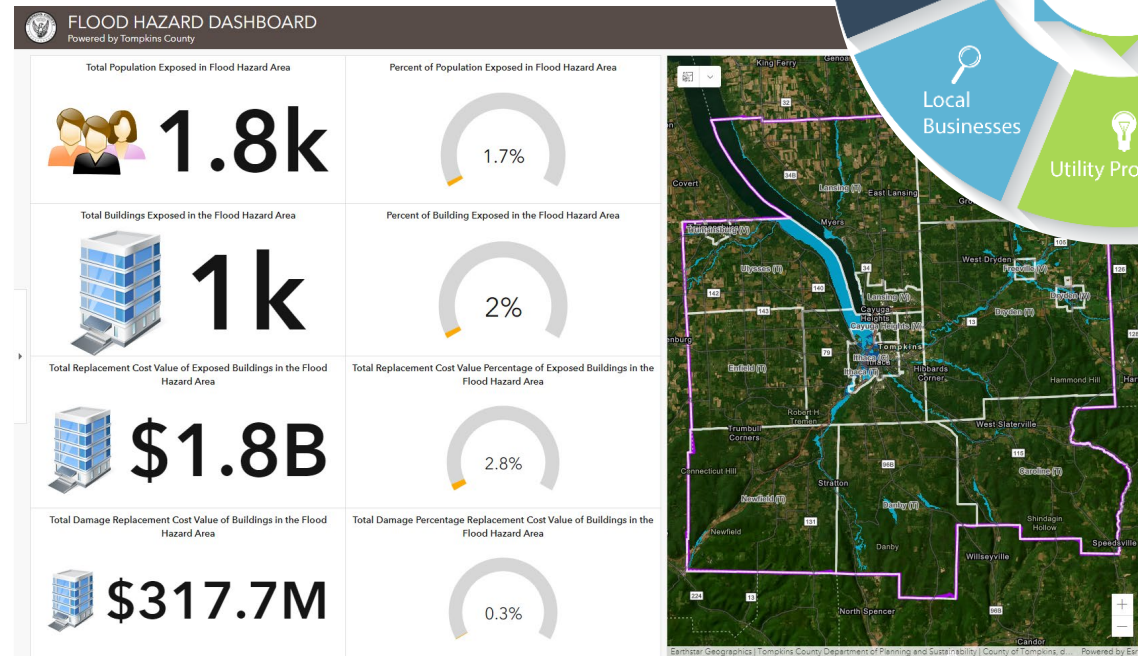
For example, City Police Department

ality:*



Phase 3 - Public Outreach Strategy

- Public Outreach Toolkit
 - Social media templates and posts
 - Press release templates
 - Printable materials
- Surveys
 - Stakeholders
 - Neighboring communities
 - Public
- County Website
- StoryMap



Phase 4 – Capabilities and Integration

- Review existing capabilities and identify how each reduces risk and if it incorporates elements of the HMP
- Describe current and future integration process for the County and each jurisdiction

Regulatory

- Current ordinances that integrate mitigation (e.g., local flood damage prevention ordinance, stormwater management, wetlands protection, etc.).

Operational and Administrative

- County/community boards/departments that integrate mitigation in their current processes and how.

Funding

- Funding sources at the local level that may be used to fund mitigation projects.

Education/Outreach

- Current action the County/community is taking to integrate mitigation in their outreach and notifications to residents.

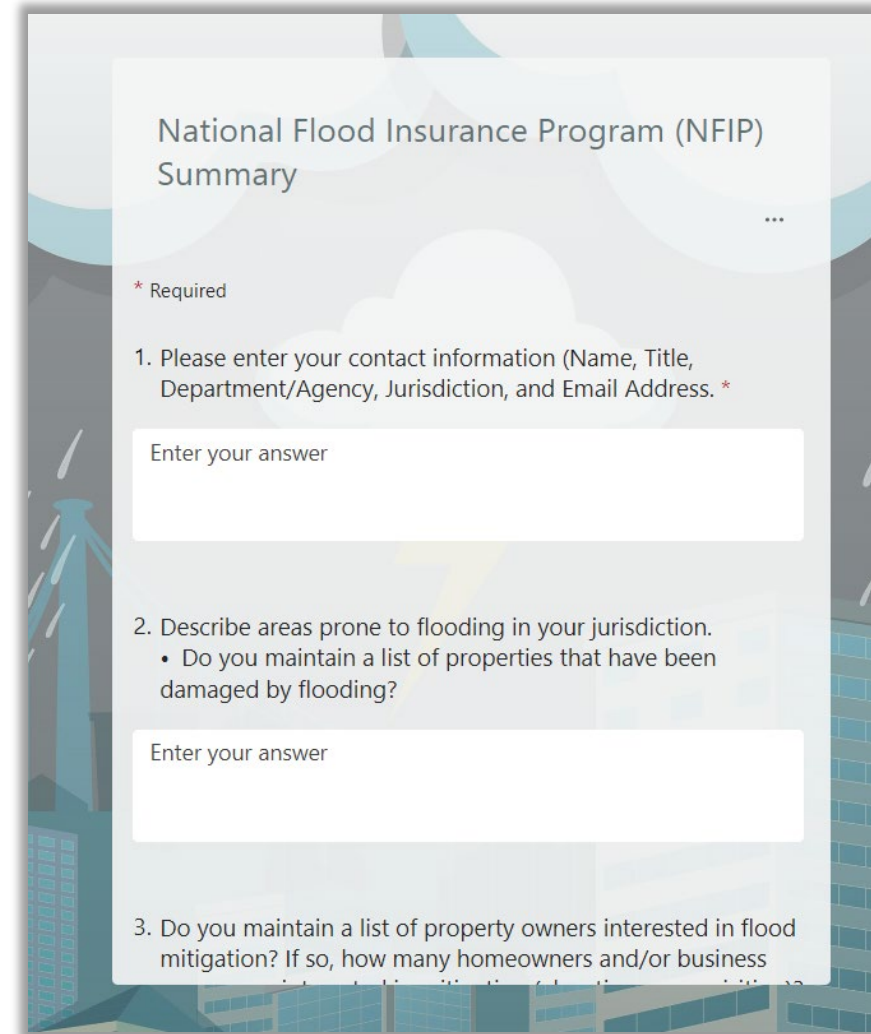
Adaptive Capacity

- Review the County and municipalities' adaptive capacity to deal with the potential impacts of climate change.



NFIP Questionnaire

- FEMA requires any municipality that participates in the NFIP to provide details on how they implement the NFIP
 - Complete using the online form (<https://forms.office.com/r/9XMb5L8ZrS>) or your annex



National Flood Insurance Program (NFIP)
Summary

* Required

1. Please enter your contact information (Name, Title, Department/Agency, Jurisdiction, and Email Address. *

Enter your answer

2. Describe areas prone to flooding in your jurisdiction.

- Do you maintain a list of properties that have been damaged by flooding?

Enter your answer

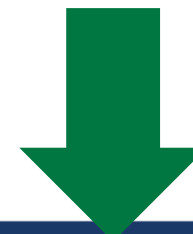
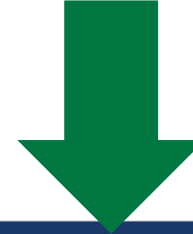
3. Do you maintain a list of property owners interested in flood mitigation? If so, how many homeowners and/or business

Phase 5 – Mitigation Strategy

- Review 2018 mitigation actions and **provide status in your annex**
- Review and update goals/objectives
- Problem statements and potential solutions
 - What specific actions will be taken to reduce hazard risk?
- Develop an action plan
 - How will the actions be prioritized and implemented?
 - One mitigation action for every hazard of concern!



Reviewing Mitigation Strategies



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2024 HMP or Discontinue 2. If including action in the 2024 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
Airmont-1	Beaver Hollow Bank Erosion and Stabilization	Flood, Severe Storm, Nor'Easter	Village Engineer	Bank stabilization due to erosion is needed at Beaver Hollow. Conduct a study to see which methods are the most feasible to stabilize the bank. Implement the actions.	1. 2.	1. 2. 3.
Airmont-2	Village Emergency Plan	All Hazards	Village Planner	The Village currently utilizes the Rockland County's Emergency Response Plan. Develop an individual Village Emergency Plan.	1. 2.	1. 2. 3.



Phase 6 – Plan Maintenance

- Develop a game plan for maintaining the 2024 HMP over the next 5 years
 - How often will you meet to discuss progress on the HMP?
 - How will the County and jurisdictions integrate the HMP?
 - How will you monitor progress on the 2024 mitigation actions?



Phase 7 – Prepare the HMP Update

Volume I	Appendices	Volume II
Table of Contents	Sample Adoption Resolution	Planning Team
Executive Summary	Participation Matrix	Jurisdictional Annexes (25)
Introduction	Meeting Documentation	
Planning Process	Public and Stakeholder Outreach	
County Profile	Risk Assessment Information	
Risk Assessment	Mitigation Strategy Support Documentation	
Capability Assessment	Plan Maintenance Tools	
Mitigation Strategies	Linkage Procedures (if applicable)	
Plan Maintenance	Critical Facilities	
Acronyms and Abbreviations	High Hazard Potential Dam (HHPD)	
Glossary		
References		



Phase 8 – Adopt the Plan

- Once FEMA approves the HMP, the County and each jurisdiction will need to adopt the plan
- Tetra Tech will help you with that process
- Begin plan implementation and integration

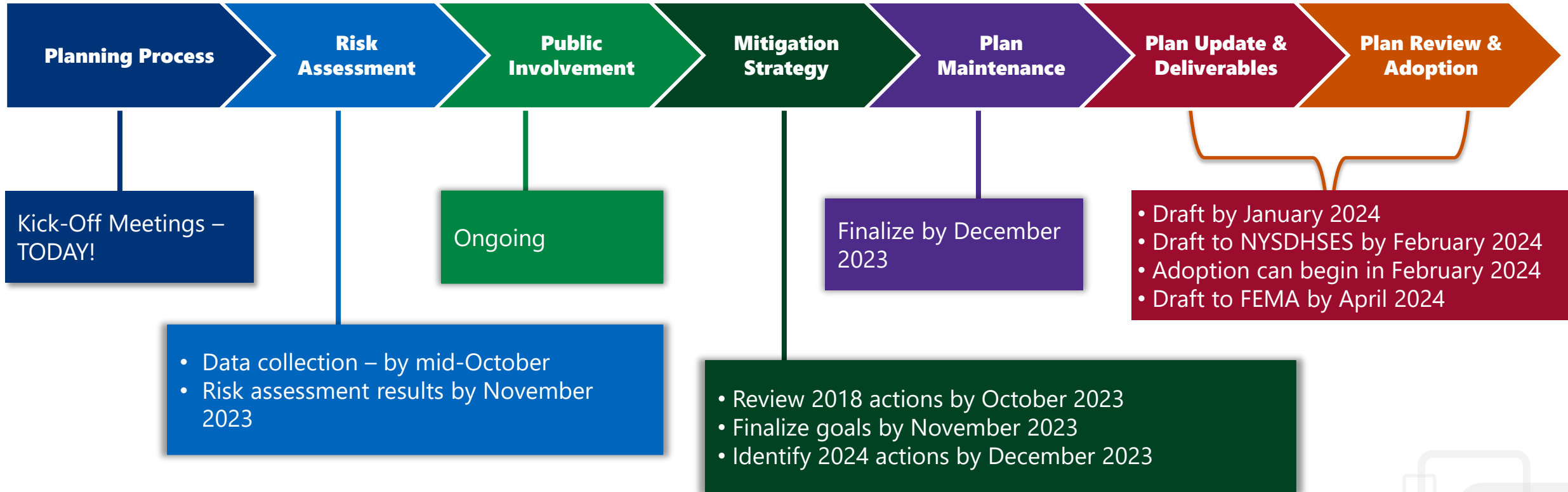




Project Schedule and Next Steps

Upcoming meetings and key milestones
throughout the HMP update process

Schedule



Next Steps

Item	Due Date
Annexes distributed to municipalities	By Wednesday, October 11th
Complete online forms – hazard event history and NFIP questionnaire	Wednesday, October 18th
Provide status on 2018 mitigation actions	Friday, October 27th
Input on new development and building permits	Friday, October 27th
Identify problem areas	Friday, October 27 th
Review and update jurisdictional annexes	Friday, October 27 th
Risk assessment/mitigation workshop (in-person)	Early December (date TBD)
Draft plan presentation (virtual)	Early January 2024
Adopt HMP	February-March 2024





Questions?

Rockland County Project Contacts

Chris Jensen, Program Coordinator, Fire and Emergency Services
(845) 364-8902 | jensenc@co.rockland.ny.us

Tetra Tech Project Contacts

Heather Apgar, CFM
(973) 630-8046 | heather.apgar@tetrattech.com

A photograph of an outdoor cafe scene. In the foreground, a black planter box with red flowers runs along the sidewalk. Two red oval logos with the text "SIDEWALK Bistro" are visible on the planter. In the background, several people are seated at tables with wicker chairs, and a waiter in a white shirt is standing. The cafe has large windows and a red awning. American flags are visible on the building and in the background. A large white oval with the text "Thank You!" is overlaid on the right side of the image.

Thank
You!