



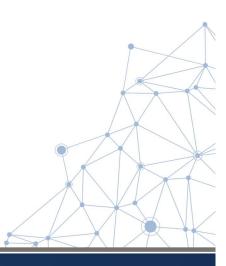
# Warren County, New York Hazard Mitigation Plan – 2023 Update

Homework Workshop | November 16, 2022 10:00am

### **Agenda**



- 1 Welcome
- 2 Benefits of Hazard Mitigation
- 3 Hazard Mitigation Planning Overview
- 4 Planning Partnership Responsibilities
- 5 Worksheet Review/Data Input
- 6 Community Lifelines/Critical Facilities
- Questions/Next Steps/Wrap Up



### This is the Benefit of Participating in the Plan



By participating AND adopting the hazard mitigation plan:

1. Your community remains eligible for pre-disaster mitigation funding!

2. Your plan will help reduce future damages in your community



#### **How Do You Participate?**

- Submit Letter of Intent to Participate
  - If you haven't returned it yet, please do so ASAP!
- Provide information about your town or village. (This will be included in your chapter of the plan.)
- Attend planning partnership meetings/workshops
- 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



### **Assemble Your Mitigation Team!**

If you have not fully decided who should be on your municipal team, the following can provide you a better idea on who to invite:

- NFIP Floodplain Administrator
- Building Code Official
- Engineer
- Land Use Planner
- Clerk
- Mayor/Administrator
- Municipal CFO/Fiscal Representative
- Public Works Superintendent/Director
- Police/Fire Official



### What We Your Input!

- Tetra Tech has provided you with worksheets
- Information from the last plan has been prepopulated in your worksheets, as available.
- Your Mitigation Team is responsible for
  - providing updated information
  - reviewing the information from the 2017 plan.
- This information will be included in your town or village annex



SECTION 9.2. Town of Bolton

#### SECTION 9.

#### 9.2 TOWN OF BOLTON

This section presents the jurisdictional annex for the Town of Bolton that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the TOWN participated in the planning process, an assessment of the Town of Bolton's risk and vulnerability, the different capabilities used in the TOWN, and an action plan that will be implemented to achieve a more resilient community.

#### 9.2.1 Hazard Mitigation Planning Team

The Town of Bolton identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many TOWN departments, including XXXX. The XXXX represented the community on the Warren County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality's planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix (Meeting Documentation).

Table 9.1-1. Hazard Mitigation Planning Team

4	Table 711-11 Hazara Wil	nganon rianning ream
	Primary Point of Contact	Alternate Point of Contact
	Name/Title: Joshua Westfall, AICP	Name/Title: Richard Miller, PE
	Address: 4949 Lake Shore Drive, Bolton Landing, NY 12814	Address: 4949 Lake Shore Drive, Bolton Landing, NY 12814
	Phone Number: 518-644-2893	Phone Number: 518-644-2893
	Email: Westfall.J@Town.Bolton.NY.US	Email: Miller.R@Town.Bolton.NY.US
	NFIP Floodplain Administrator	
	Name/Title: Richard Miller, PE	
	Address: 4949 Lake Shore Drive, Bolton Landing, NY 12814	
	Phone Number: 518-644-2893	
	Email: Miller.R@Town.Bolton.NY.US	
	Additional Contributors	
	Name/Title:	
	Method of Participation:	
	Name (Title)	



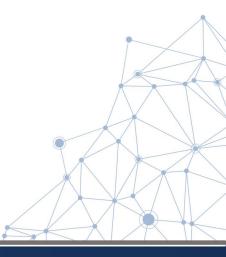
2023 | HAZARD MITIGATION PLAN – WARREN COUNTY, NEW YORK



# Hazard Event History Specific to Your Town or Village



- Describe impactful hazard events that have occurred since 2017
  - When did the event occur?
  - What type of event was it?
  - What are the details of how the event unfolded?
  - How was the community impacted?
    - -Damages
    - -Closures
    - -Injuries/deaths



#### HAZARD EVENT HISTORY



- ✓ Fill out contact information.
- ✓ Provide a summary of damages/impacts to the listed events AND note other local hazard events that resulted in damages, closures, or other impacts.

✓ Identify other hazard events that have caused damage/losses in your community. Refer to FEMA project worksheets (PWs), overtime records, police/fire reports, repair costs (invoices), etc

#### **WORKSHEET A - HAZARD EVENT HISTORY**



Hazard Mitigation Plan 2023 Update WARREN COUNTY, NY Worksheet A - Hazard Event History

se work with your municipal planning team and complete this worksheet. Please send electronic Word version to Cynthia Bianco (Tetra Tech) by November 23<sup>rd</sup>, 2022. Email: cynthia.bianco@tetratech.com

7/

Municipality:	Town of Bolton
Name and Title o Individual Completing Worksheet:	

Warren 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 (January 1, 2017). Information already populated in the table below is based on County-wide events that resulted in significant damages and losses.

Please update the table to provide a summary of local impacts to the listed events AND note other local hazard events that resulted in damages, closures, or other impacts.

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
April 27-28, 2011	Severe Storms, Flooding, Tornadoes and Straight-Line Winds (DR-1993)	Yes	Flooding occurred along the Hudson River in Warren County from North River southward to the Saratoga County line. Numerous reports of flooding. The County had approximately \$676,000 in damages. Nearly two-thirds of the County was damaged. In the Town of Bothon, River Rd. and Rickle. Ply Roads were closed from flooding. The Town the County was damaged to the Town addition, there was one washout on Pagaguro, Rd., which the Town used two loads of 141 fill to the Vision of the County Rd., which the Town used two loads of 141 fill to the Vision of the County Rd.	
May 27 – June 2, 2011	Flooding "Memorial Day Storm"	N/A	Flooding occurred in the County and there was severe damage along a thin line through the County (Story Creek, Thurman, Warrensburg, Bradeog and Bolton) that resulted in \$13.125 inflood in damages. Extensive flood damage to transportation infrastructure occurred throughout the Town of Bolton, including Combs Road Bridge which was washed out. A \$17 deep x 50° wide segment of Hernárcius Road washed out. Siye Farm Road was completely washed out, along with sections of Trout Falls and Explanation Roads. A 4" x 50° culvert on Ricer Rd. was also washed out.	
August 27-29, 2011	Hurricane Irene (DR-4020)	Yes	There was severe wind and flooding damage throughout the County. Very little damage occurred in the Town of Bolton. A few trees came down. The Town Highway Crew worked 15 overtime hours. Highway and Parks Departments kept all the culverts cleaned out.	

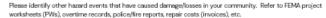


PAGE | 1





May 29, 2012	Hall and Wind	N/A	Debris removal occurred in the County as a result of this event. A generator at a fire station, a patrol car, and the canepy of a patrol boat were all damaged. Very little damage occurred in the Town of Botton. Clean up was needed for a few downed trees. Highway crews swept debris from roadways.	
October 29, 2012	Hurricane Sandy (EM-3351)	Yes	Heavy rain fell throughout the County. In the Town of Bolton, trees came down in Cotton Point. Highway crews swept debris from roadways.	
October 31 - November 1, 2019	Severe Storms, Straight-line winds, Flooding (DR-4472) 1-billoween Storm*	Yes	A strengthening lew-pressure system moving from Ohio to Lake Ontario drew anomalous warmth and moisture northward on Halloween, with temperatures surging into the 80s and 75 over eastern New York and western New England. Showers across the southern Adrondacks and Mohawk Valley became steadier and heavier during the evening shead of a strong cold front as the low continued to strengthen. Strong winds aloft mixed down to the surface as an internal line of showers developed along the front, resulting in sporadic wind damage and scattered power outages over eastern New York.	A large swith of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mchawk Valley and southern Adrondacks, resulting in reports of flash flooding. The runoff caused rapid rises on area creeks and streams, with river gauges reaching record levels along the Mchawk River at Little Falls, the West Canada Creek at Hinckley and Kast Bridge, and the Sacandags River at Hippe.
January 20, 2020	Covid-19 (EM- 3434)	Yes	As of November 2022, Warren County has experienced over 20,000 positive cases of Covid-19	



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summery of Event	Municipal Summary of Demages and Losses





- Fill out contact information.
- Provide a summary of local impacts to the listed events AND note other local hazard events that resulted in damages, closures, or other impacts.
- Identify other hazard events that have caused damage/losses in your community. Refer to FEMA project worksheets (PWs), overtime records, police/fire reports, repair costs (invoices), etc.





PAGE | 2



### Recent and Expected Future Development



- List the number of building permits for **NEW construction** issued since 2017
  - Do not include redevelopments or improvements
- List and describe recent **MAJOR DEVELOPMENT** (housing developments, hotels, commercial or industrial development, etc.) that has taken place since 2017
- List and describe **ANTICIPATED MAJOR DEVELOPMENT** likely to take place in the next 5 years.



#### WORKSHEET E - RECENT DEVELOPMENT (BUILDING PERMITS)





Hazard Mitigation Plan 2023 Update WARREN COUNTY, NY Worksheet E – Building Permits



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 23<sup>rd</sup>, 2022 to:

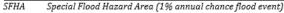
Cynthia Bianco, Tetra Tech | cynthia.bianco@tetratech.com

Municipality: Town of Bolton

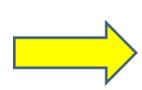
Name and Title of Individual Completing Worksheet:

Who can assist with completing these tables: The Building Department, Planning Department, and NFIP Floodplain Administrator

Type of Development	2	017	2	018	2	2019	2	020	2	021	20	22
Number of Building Per	mits for N	ew Constru	ction Issue	ed Since th	e Previou	s HMP* (with	in regula	tory floodpl	ain/ Outs	ide regulat	ory floodpl	ain)
		Within		Within		Within		Within		Within		Within
	Total	SFHA	Total	SFHA	Total	SFHA	Total	SFHA	Total	SFHA	Total	SFHA
Single Family												
Multi-Family												
Other (commercial,												
mixed-use, etc.)												
Total New Construction												
Permits Issued												



<sup>\*</sup> Only location-specific hazard zones or vulnerabilities identified.

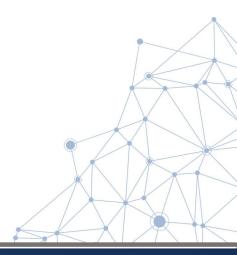




### **National Flood Insurance Program**



- This section should worksheet to be filled Floodplain Administrator for your community.
- Answer the questions regarding NFIP participation and implementation of floodplain administration.
- Provide details where necessary



#### WORKSHEET C - FLOODPLAIN ADMINISTRATION QUESTIONAIRE



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version to

Cynthia Bianco by <u>November 23<sup>rd</sup>, 2022</u>

Email: cynthia.bianco@tetratech.com



Municipality: Town of Bolton

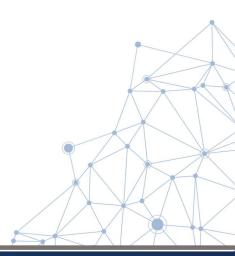
NFIP Floodplain Administrator Name/Title:

Who can assist with completing this table: NFIP Floodplain Administrator – as ide Damage Prevention Ordinance.

y role/title in your Flood



NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction.  Do you maintain a list of properties that have been damaged by flooding?	No
Do you maintain a list of property owners interested in flood mitigation?  How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	No
Are any RiskMAP projects currently underway in your jurisdiction?  If so, state what projects are underway.  How do you make Substantial Damage determinations?  How many were declared for recent flood events	No No
in your jurisdiction?  How many properties have been mitigated (elevation or acquisition) in your jurisdiction?  If there are mitigation properties, how were the projects funded?	None
Do your flood hazard maps adequately address the flood risk within your jurisdiction?  If not, state why.	

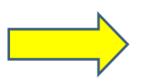


#### WORKSHEET C - FLOODPLAIN ADMINISTRATION QUESTIONAIRE





NFIP Compliance	
What local department is responsible for floodplain	
management?	
Are any certified floodplain managers on staff in your	Yes – Floodplain Administrator
jurisdiction?	
Do you have access to resources to determine possible	Unknown
future flooding conditions from climate change?	
Does your floodplain management staff need any	No
assistance or training to support its floodplain	
management program?	
<ul> <li>If so, what type of assistance/training is needed?</li> </ul>	
Provide an explanation of NFIP administration services	
you provide (e.g., permit review, GIS,	
education/outreach, inspections, engineering capability)	



## **Status of Previous HMP Mitigation Actions**



- Report on the status of previous mitigation actions from the 2017 plan.
  - In Progress: The action has been started but has not been completed to date.
  - No Progress: The action has not been started
  - Ongoing Capability: The action has been started and is now part of the municipality's regular or annual operations
    - Examples: Regular stormwater cleaning, annual outreach, regular trainings for staff
  - Complete: The action has been 100% completed and implemented

### **Status of Previous HMP Mitigation Actions**



- Indicate if this action should be included in the 2023.
  - In progress actions should be carried over
  - •If identified as an ongoing capability, we will include it in the integration section of the annex but not as a 2023 action
  - Completed actions will not be carried over as actions in the 2023 HMP update



#### **WORKSHEET D - 2017 MITIGATION ACTION OR PROJECT REVIEW**





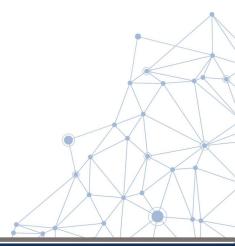
#### WARREN COUNTY HAZARD MITIGATION PLAN UPDATE Worksheet D - Mitigation Action Review Town of Bolton





Project #	Project	Hazard(s) Addressed Flood	Brief Summary of the Original Problem	Responsible Party  Planning, Town	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if project status is <u>complete</u> )  Cost	Next Steps  Project to be included in 2023 HMP or Discontinue If including action in the 2023 HMP, revise/reword to be more specific (as appropriate).  If discontinue, explain why.
1	Develop a Hamlet-wide Stormwater Drainage System plan for the Hamlet of Bolton	Fiood		Board	Casose an item.	Level of Protection Damages Avoided; Evidence of Success	Choose an item.
2	Adopt and implement the Local Waterfront Revitalization Plan (draft released in July, 2014).	All Hazards		Town Board	Choose an item.	Cost Level of Protection Damages Avoided; Evidence of Success	Choose an item.
3	Edgecomb Pond Dam Auxiliary Spilloway Development Project: Install an auxiliary spilloway for the dam which provides water to hamlet (built-up) area. Drainage easements have been acquired in area where new spilloway would be built.	Flood		Bolton Water District, Town Board	Choose an item.	Cost Level of Protection Dumages Avoided; Evidence of Success	Choose an Item.
4	Edgecomb Pond Dam Upgrades: Make structural upgrades and improvements of the existing Edgecomb Pond Dam as called for by the upcoming structural evaluation. The Dam (owned by Bolton Water District) is in need of some improvements. The Town is in the process of contracting for a	Flood		Bolton Water District, Town Board	Choose an item.	Cost Level of Protection Damages Avoided; Evidence of Success	Choose an item.





2



### **Status of Previous Mitigation Actions**



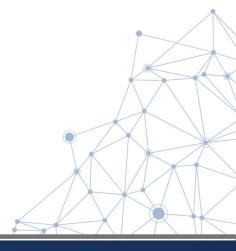
- List any mitigation actions or measures taken since the 2017 plan that were not part of the 2017 mitigation strategy
  - Did you install generators at critical facilities?
  - •Upsize culverts or drainage pipes to reduce flooding?



WARREN COUNTY HAZARD MITIGATION PLAN UPDATE
Worksheet D - Mitigation Action Review
Town of Bolton



Have you completed, or are there any in-progress or proposed mitigation or resilience projects that are <u>not included</u> in the table above since 2017? If yes, please provide the project details, what the project is mitigating and who is implementing below.



#### **Identified Issues**



- Where are the problem areas in your community related to damages due to natural hazards?
  - What problems need solving?
  - •What solutions need implementation?
  - What projects need funding?
- Tell us about floodprone locations outside of the floodplain such as stormwater/urban flooding areas
- Tell us about areas that experience damages.



### Planning, Legal, and Regulatory Capability



- This table reviews our codes, ordinances, & requirements; planning documents; and response/recovery planning
- Indicate if you have the plan/ordinance/requirement
- Indicate if it already integrates hazard mitigation
  - Tetra Tech has reviewed a majority of your plans, codes and ordinances and updated this section. Please review and revise accordingly.
- Describe the plan/ordinance/requirement
  - Who is in charge of implementation?
  - When was it adopted/updated?
  - How does it integrate hazard mitigation/emergency response?
    - Again, Tetra Tech addressed this during our review. Please review and revise accordingly.

#### **Hazard Mitigation Planning Team**



- Update contact information if necessary
  - Primary Point of Contact
  - Alternate Point of Contact
  - NFIP Floodplain Administrator
- Remember, this is a public document so your contact information will also be public.



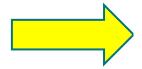
#### **WORKSHEET B - CAPABILITY ASSESSMENT**

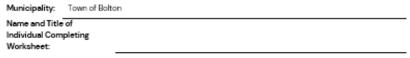


Hazard Mitigation Plan 2023 Update WARREN COUNTY, NY Worksheet B – Capability Assessment

Please work with your municipal planning team and complete this worksheet. Please send electronic Word version to Cynthia Bianco (Tetra Tech) by <u>Movember</u>, 23, 2022

Email: cynthia.bianco@tetratech.com





Who can assist with completing these tables: Municipal Planner, Clerk, Code Official, Administrator, Chief Fiscal Officer.

#### Planning and Regulatory Capability

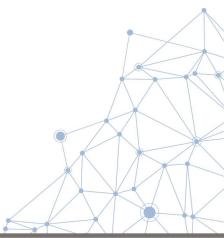
Please complete the following table to summarize the regulatory tools that are available to your community, what is present in the jurisdiction, and code citation and date. For existing regulatory tools, note how it reduces risk to hazards or how it could be updated to better integrate hazard mitigation concepts to reduce risk.

Table 9.1-2. Planning, Legal, and Regulatory Capability and Integration

How has or will this be integrated with the HMP and how does this reduce risk?

	Jurisdiction has this? (Yes/No)	Citation and Date ( <u>code</u> chapter or name of plan, date of enactment or plan adoption)	Authority ( <u>local</u> , county, state, federal)	Individual / Department / Agency Responsible				
(tes/tvo) plan adoption) state, tederaly kesponsible Codes, Ordinances, & Regulations								
Building Code	Yes	NYS Property Maintenance	State and Local	Town Building				
		Code		Inspector				
How has or will this be into	egrated with the F	MP and how does this reduce i	risk?					
	ed the New York S	State Property Maintenance Coo	de in December 202	21.				
Zoning/Land Use Code	Yes	Chapter 200 – Zoning	Local	Zoning and Planning				
	per exercise of th	e police power as delegated by	the Town Law.					
<ul> <li>plan and other ha</li> <li>Does the zoning wetlands, floodwa</li> </ul>	zard analyses to e ordinance discour sys, and floodplair	ment permitting, does your juris ensure consistent and compatit rage development or redevelop is? es that set conditions?	le land use?	-				
<ul> <li>Does the ordinan</li> </ul>	ce require develo	pers to take additional actions t	o mitigate natural h	azard risk?				
		natural hazard areas as limits o	n zoning changes ti	hat allow greater				
intensity or densi								
Subdivision Ordinance	Yes	Chapter 150 – Subdivision	Local	Zoning and				
	I	of Land	I	Planning				







# **Brainstorm New Mitigation Actions** for the 2023 HMP Update

- Opportunity to add new mitigation actions
- This includes all in-progress grant applications (HMGP generators, CDBG acquisitions, etc.)
- Tips for the 2023 update:
  - One action for each hazard of concern
  - Quality NOT quantity
  - Specific not general
  - What can realistically be accomplished in 5 years?



Plans and regulations include government authorities, policies, or codes that encourage risk reduction, such as building codes and state planning regulations. This may also include planning studies.



Structure and infrastructure projects involve modifying existing structures and infrastructure or constructing new structures to reduce the impact of hazards.

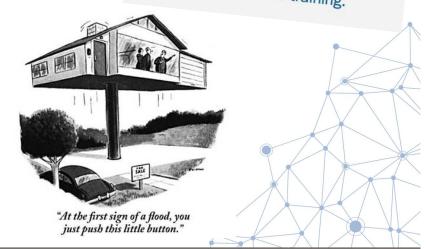




Natural systems protection projects minimize losses while also preserving or restoring the function of natural systems.



**Education and awareness** programs include long-term, sustained programs to inform and educate citizens and stakeholders about hazards and mitigation options. This category could also include training.



#### **Critical Facilities and Lifelines**



- ✓ Critical Facilities are those facilities considered critical to the health and welfare of the population and that are especially important following a hazard
  - ✓ Include essential facilities to ensure a full recovery following the occurrence of a hazard event, transportation systems, lifeline utility systems, high-potential loss facilities, and hazardous material facilities.
- ✓ **Lifelines** provide indispensable service that enables the continuous operation of critical business and government functions, and is critical to human health and safety, or economic security

















#### **Critical Facilities and Lifelines**



- Tetra Tech will send out the Critical Facilities list to your community for your review – we push back the deadline as necessary (originally October 14<sup>th</sup>)
- Ensure the list is complete
  - Add new critical facilities that have been built/established in the last 5 years
  - Omit critical facilities that have been decommissioned in the last 5 years

















### We Need YOU Engaged and Involved!



- Update your Municipal webpage and link to County's HMP webpage at https://www.warrencountynewyorkhmp.com
- Social Media Blasts Tetra Tech will provide you with content and graphics
- Local Announcements of HMP Update local papers, newsletters, etc.
- Local public meetings
- Draft Plan Review
- Document each and every time you share and engage!

#### Why conduct outreach?

- Informs and educates about hazards and risks
- Invites interested parties to contribute their views and ideas for mitigation
- Identifies conflicts and incorporates different perspectives and priorities early in the process
- Provides data and information that improves overall quality and accuracy of the plan
- Ensures transparency and builds trust
- Maximizes opportunities for implementation through greater consensus and acceptance

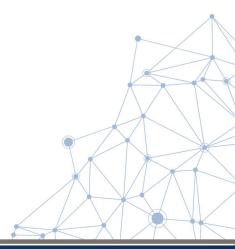
#### Remember to Document Your In-Kind Services!



Warren County HMP - In-Kind Tracker
Warren County received FEMA funding to update the Hazard Mitigation Plan (HMP). To help meet the required 25% match, the County will use in-kind services.
Please use this form to document your time spent working on the HMP. This includes attending meeting, conference calls, working on your municipal annex, reviewing sections of the plan, etc.
If you have any questions, please reach out to Cynthia Bianco (cynthia.bianco@tetratech.com   973.630.8044).
* Name
*Title
* Jurisdiction  •
Please document your time spent working on the HMP:
#Hours
Task Description
Comments
Please document your time spent working on the HMP:
Date
#Hours

 Use the on-line survey to document your in-kind hours worked on the hazard mitigation plan:

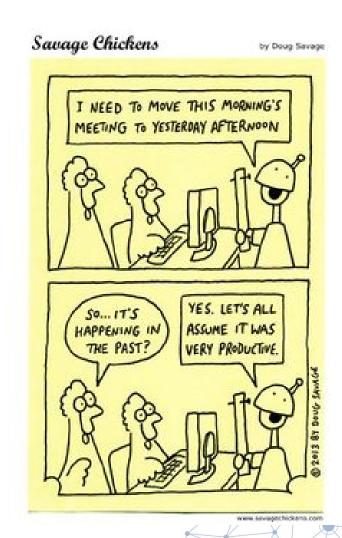
https://www.surveymonkey.com/r/WarrenNYHMPInKind



#### **Schedule**

AD- 1813

- Planning Process
  - Confirm critical facility/lifeline inventory by December 9th
  - Worksheets due November 23rd
  - Worksheet Workshop today!
  - Update Risk Assessment
  - Begin vulnerability assessment
  - Risk Assessment Meeting February 2023
- Public Involvement Strategy ongoing throughout the planning process
  - Mitigation Strategy
    - Mitigation Strategy Workshop
    - Draft Plan to Steering Committee by May 2023
  - Final draft plan to NYSDHSES and FEMA by August 2023



#### **Next Steps**

- COMPLETE THE WORKSHEETS
  - Use Tetra Tech to answer any questions you may have!
- Review Risk Assessment Results
- Identify Problems and Problem Areas
- Develop Mitigation Strategy
- Review Draft Plan
- Submit Draft Plan for NYSDHSES/FEMA Review
- Adopt FEMA-Approved Plan
- Implement Projects and Maintain the Plan



Increase Resilience!



# **Questions?**



#### **Warren County Emergency Services Project Contacts**

Jim Lieberum, CPESC, District Manager jiml@warrenswcd.org

Ann Marie Mason, Emergency Services Director <a href="masona@warrencountyny.gov">masona@warrencountyny.gov</a>

#### **Tetra Tech Project Contacts**

Cynthia Addonizio-Bianco, Project Manager (973) 630-8044 | cynthia.bianco@tetratech.com

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

