



# Lancaster County Hazard Mitigation Plan 2025 Update

Steering Committee Mitigation Strategy Workshop

December 4, 2024



# Today's Agenda

1. Welcome and Introductions
2. Project Status
3. Identifying and Developing Mitigation Strategies
4. Developing New Potential Actions
5. Next Steps
6. Questions/Discussion
7. Workshop





# Project Status

# Planning Process



# Public Outreach

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





# Identifying and Developing Mitigation Strategies

# Using Your Mitigation Strategy to Reduce Risk

- What is a ***Mitigation Strategy***?
  - A group of projects or actions to reduce the impacts of the hazards of concern on your community
    - Plans and Regulations
    - Structure and Infrastructure Studies and Projects
    - Natural Systems Protection Studies and Projects
    - Education and Awareness Programs
- Terms to describe the ***Mitigation Strategy*** include:
  - **Mitigation Action Plan** or **Action Plan**
  - **Mitigation Projects** or **Initiatives** or **Actions**

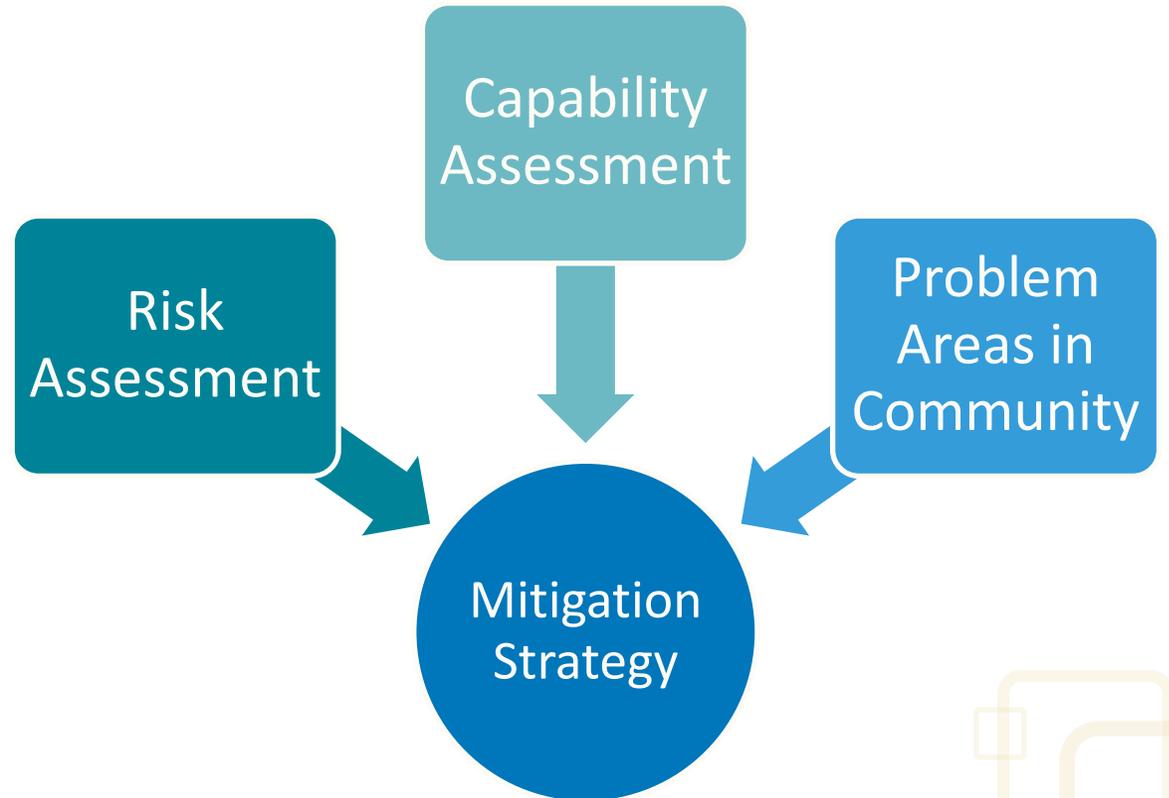
Your Mitigation Strategy is included in your annex. Each action will be developed on individual Action Worksheets to include detailed information that can serve as starting points for grant applications and guide implementation

# Purpose of Mitigation Strategy

- The **Mitigation Strategy** is the County's roadmap to reduce the risk of hazards identified in the HMP. The strategy is based on hazard impacts, asset vulnerability, and the County's capabilities.
- **Mitigation Actions** are specific activities, such as policies, projects, and studies, that stakeholders identify to reduce risk.
  - Forward-looking and incorporate changing conditions for the life of the County's assets
  - Consider changing demographics, development patterns, impacts of climate change.
  - Examples of actions may include elevating electrical and HVAC equipment to reduce the likelihood of damage from floodwaters or planting trees to lower temperatures exacerbated by pavement.
  - ***Actions included in the plan are eligible for certain types of FEMA funding.***

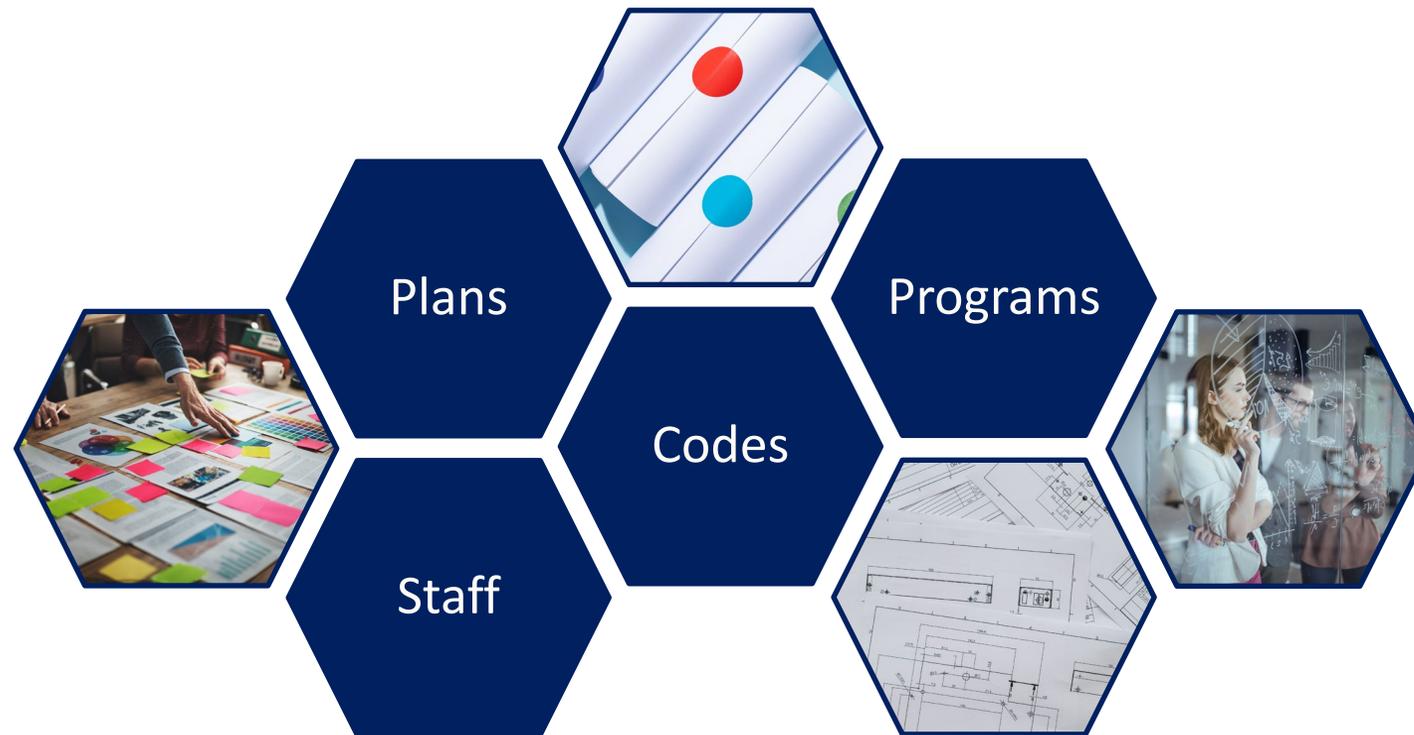
# Connecting to the Mitigation Strategy

- Need a clear connection between vulnerabilities identified in the risk assessment and proposed mitigation actions.
- The capability assessment can provide insight into challenges and opportunities for the mitigation strategy.
- All actions proposed in the mitigation strategy must have a factual basis tied to hazards (*this shouldn't be a wish list!*)



# Capability Assessment

- Capabilities
  - What does your jurisdiction use to reduce risk to hazards?



# Mitigation Strategy

- Goals
  - What outcomes do you want to achieve?
- Actions
  - What specific actions will be taken to reduce hazard risk?
- Action Plan
  - How will the actions be prioritized and implemented?



# 2025 HMP Goals

	Goal
1	Prevent injury/death and damage from natural and human-caused hazards in Lancaster County.
2	Protect the citizens of Lancaster County as well as public and private property from the impacts of natural and human-caused hazards.
3	Improve emergency services and capabilities in Lancaster County to protect citizens from natural and human-caused hazards.
4	Increase public education and awareness of existing and potential hazards in Lancaster County.
5	Reduce the risk of natural hazards for socially vulnerable populations and underserved communities.
6	Address long-term vulnerabilities from High Hazard Dams.





## Developing New Potential Actions

# Requirements for the Mitigation Strategy Update

- Quality not quantity
  - Each action needs detailed information on the why, who, what, and when of the action.
- Previous projects
  - If a project is not finished and still a priority, include in 2025 HMP
  - Remove general projects or make more specific
  - Remove ongoing capabilities like maintenance or annual outreach
- **Each hazard needs at least one mitigation action**
- If your jurisdiction has Repetitive Loss Properties - an action is needed to mitigate the properties (elevation or acquisition) with specifics (street or neighborhood names, not specific addresses)



# Where do you need to focus?

- **Stronger connection** between the risk assessment and mitigation strategy
- **More specific, achievable actions**
  - Specific projects, in specific locations, in a specific timeframe
  - Focus on socially vulnerable populations and underserved communities
- **Diverse actions**
  - You need at least one action per hazard of concern. Think about actions that can cover multiple hazards.
  - Include a variety of action types (e.g., plans, floodproof critical facilities, outreach programs, etc.)



# Other Mitigation Actions to Consider



- Substantial Damage Management Plan
- Actions to address high-hazard or significant-hazard dams
- Public education and outreach programs
- Generators at critical facilities and community lifelines
- Floodproofing critical facilities and community lifelines
- Addressing repetitive and severe repetitive loss properties

# Next Steps

- Complete your worksheets, ask questions, and provide information to Tetra Tech and Lancaster County staff.
- Continue to share information about the HMP Update via social media, community groups, and networks. Let us know who you share information with!





# Workshop

Review previous mitigation actions, identify new actions, complete any additional outstanding worksheets.

**Before you leave, check in with Tetra Tech staff!**

# New Action Development

- Consider information gathered to date from the capability assessment, risk assessment, and other input received from the public or other staff.
- Identify problems and potential solutions in the sections below that will provide the basis for your new mitigation actions. Identify the hazard(s) of concern for each of your proposed actions.
- Not every table needs actions listed but remember that each hazard of concern must be addressed with at least one mitigation action!

**LANCASTER COUNTY HAZARD MITIGATION PLAN UPDATE**  
New Action Development Worksheet

*Complete this worksheet to update your mitigation strategy.*

*Return this worksheet to Tetra Tech staff at the end of the Mitigation Strategy Workshop. If your municipality needs more time, please provide the date you will return the worksheet (within the next 2 weeks) to Tetra Tech.*

Municipality: \_\_\_\_\_  
Name/Title of Individual Completing Worksheet: \_\_\_\_\_

What are the hazards we need to address?  
FEMA requires each participating jurisdiction include at least one mitigation action for each of concern. For the Lancaster County 2026 Hazard Mitigation Plan update, the hazards of concern are:

Hazard	Pandemic and Infectious Disease	Radon Exposure
Cyber Incidents		Subsidence/Sinkhole
Dam Failure		Substance Use Disorder
Drought		Terrorism
Earthquake		Tornado/Windstorm
Gas and Liquid Pipelines		Transportation Accident
Hazardous Materials Releases		Utility Interruption
Flood/Flash Flood/Ice Jams		Wildfire
Hailstorms		Winter Storm
Invasive Species		
Nuclear Incidents		

During today's workshop, we will review our actions from the previous plan, update our actions, and identify new actions. As you identify problems, consider a variety of action types that could address the problem including structural, plans and regulations, education and outreach, and natural hazard mitigation. Actions will need to include detailed problems and solutions in order to meet FEMA's requirements.

**LANCASTER COUNTY HAZARD MITIGATION PLAN UPDATE**  
Steering Committee Mitigation Strategy Workshop – AGENDA  
MEETING DATE/TIME: Wednesday, December 4 – 3:30 pm – 5:30 pm

### NEW ACTION DEVELOPMENT

Consider the information gathered to date from the capability assessment, the risk assessment, and other input you have received from the public or other staff. Identify problems and potential solutions in the sections below that will provide the basis for your new mitigation actions. Identify the hazard(s) of concern for each of your proposed actions. **Not every table needs actions listed but remember that each hazard of concern must be addressed with at least one mitigation action!** These actions may be carryover actions from the previous pages or from new actions identified below. Once you have met the minimum requirement, our goal will be quality over quantity! Provide as much detailed information in the solution as you have available including:

- Phases of the action
- Design specifications
- Lead and supporting agencies
- Estimated costs
- Timeline
- Any identified funding sources

**IMPORTANT: Review Your Proposed Actions and Hazards of Concern**

→ FEMA requires each participating jurisdiction include at least one mitigation action for each of the hazards of concern.

→ Review your carryover actions from the previous plan and the new actions that you have identified above.

→ If you do not have at least one action that addresses each individual hazard of concern between these two sections, fill out additional problems and solutions for new actions to meet the requirement.

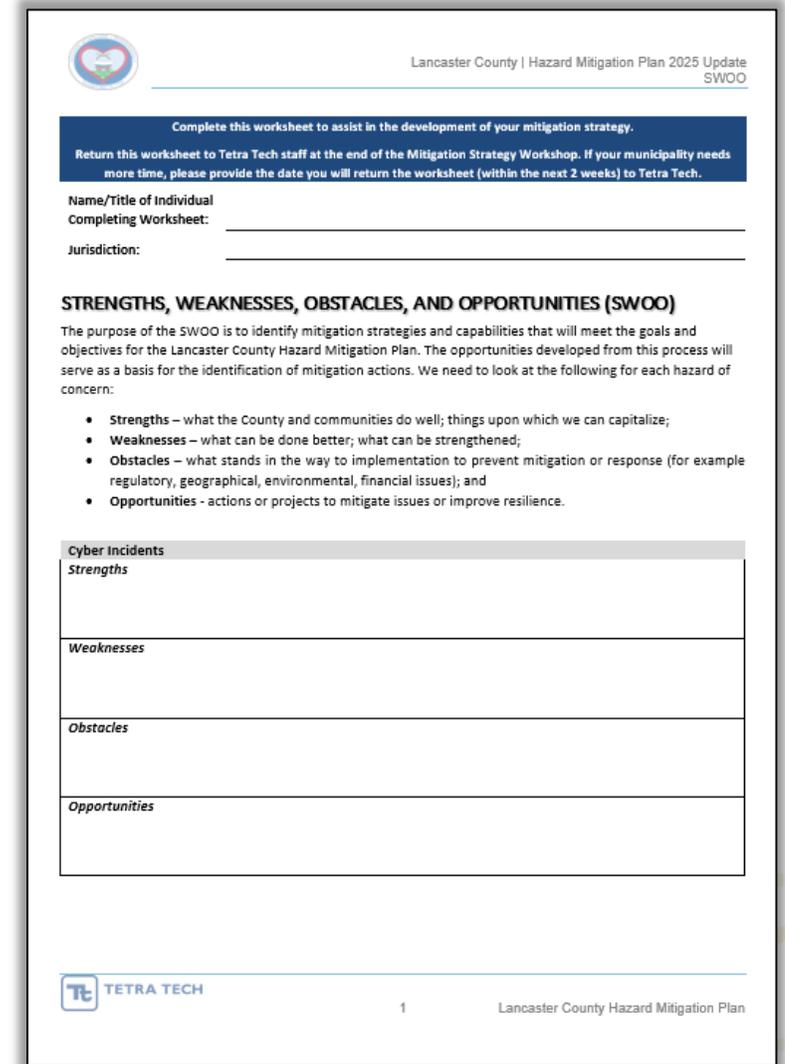
**Examples**

Problem	Solution	Hazard(s) Addressed
The Public Works facility, located at 123 Main Street, is identified as a critical facility and lifeline for the jurisdiction. The facility does not have a back-up generator to maintain continuity of operations during an emergency event.	The Public Works Superintendent will work alongside the jurisdictional engineer to identify the necessary capacity for an emergency generator for the Public Works facility. Once identified, Public Works will have the emergency generator installed at its facility at 123 Main Street. Public Works will be responsible for maintaining the emergency generator.	Cyber Incidents, Drought, Earthquake, Hailstorms, Tornado/Windstorm, Utility Interruption, Wildfire, Winter Storm
Officials in NFIP-participating communities are responsible for regulating all development in SFHAs by issuing permits and enforcing local floodplain requirements, including Substantial Damage, for the repairs of damaged buildings. The municipality does not have a Substantial Damage Management Plan in place, nor do they have a formal process in place when conducting substantial damage determinations.	The municipality will develop a Substantial Damage Management Plan, following the six-step planning process in 2021. Developing a Substantial Damage Management Plan. This plan will outline responsibilities for Substantial Damage determinations, determining market value, and permit approval processes following a disaster event.	Dam Failure, Earthquake, Flood/Flash Flood/Ice Jams, Hailstorms, Subsidence/Sinkholes, Tornado/Windstorm, Wildfire, Winter Storm



# Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

- The purpose of the SWOO is to identify mitigation strategies and capabilities that will meet the goals and objectives for the Lancaster County Hazard Mitigation Plan. The opportunities developed from this process will serve as a basis for the identification of mitigation actions. We need to look at the following for each hazard of concern:
  - Strengths – what the County and communities do well; things upon which we can capitalize;
  - Weaknesses – what can be done better; what can be strengthened;
  - Obstacles – what stands in the way to implementation to prevent mitigation or response (for example regulatory, geographical, environmental, financial issues); and
  - Opportunities - actions or projects to mitigate issues or improve resilience.
- Return this sheet to a Tetra Tech employee at the end of today’s meetings.



Lancaster County | Hazard Mitigation Plan 2025 Update  
SWOO

Complete this worksheet to assist in the development of your mitigation strategy.

Return this worksheet to Tetra Tech staff at the end of the Mitigation Strategy Workshop. If your municipality needs more time, please provide the date you will return the worksheet (within the next 2 weeks) to Tetra Tech.

Name/Title of Individual completing Worksheet: \_\_\_\_\_

Jurisdiction: \_\_\_\_\_

**STRENGTHS, WEAKNESSES, OBSTACLES, AND OPPORTUNITIES (SWOO)**

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**Cyber Incidents**

Strengths

Weaknesses

Obstacles

Opportunities

TETRA TECH 1 Lancaster County Hazard Mitigation Plan





**Questions?**

## **Lancaster County Project Contact**

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**Thank  
You!**