



**May 9, 2024**

**City of Alamogordo, NM Local Hazard Mitigation Plan Update**



City of  
**ALAMOGORDO**

City Officials and Departments Kickoff Meeting



NOW YOU'RE READY  
Be prepared. Be BOLD.



# Agenda

- Welcome and Introduction
- What is Hazard Mitigation Planning?
- Hazard Mitigation Planning Steps
  - Organize Resources
  - Assess Risk and Capabilities
  - Develop the Mitigation Plan
  - Implement the Plan & Plan Adoption
- Next Steps
  - Community Involvement – Surveys
  - Upcoming Planning Meeting
- Questions & Comments



# Welcome and Introductions



# Introduction and Housekeeping



# BOLDplanning and City of Alamogordo Planning Teams

## BOLDplanning, Inc.

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## City of Alamogordo, NM

Jerry Ramirez

*Fire Chief/Client Project Lead*

Amanda Renner

*AFD Executive Assistant*



# Attendance

## Please Introduce Yourself!

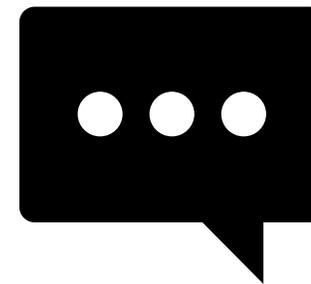
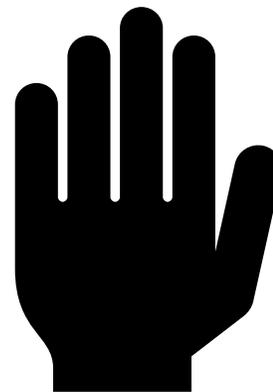
**Hello**  
my name is

- Your name
- Did you sign in for the meeting?
- What department or organization are you representing?
- What is your role with the organization/department?
- Did you take part in the last Hazard Mitigation Plan process?



# Housekeeping Using Zoom

- Please be aware of your audio – your line is on mute but unmute yourself when you are ready to talk or have a questions.
- Use the Chat Box to submit questions/comments during the workshop.
- Use the “Raise Your Hand” function when you would like to speak.



# What is Hazard Mitigation Planning?



Picture Source:  
<https://ci.alamogordo.nm.us/344/Explore>



# What is Hazard Mitigation?

According to the Federal Emergency Management Agency (FEMA), "Hazard mitigation planning reduces loss of life and property by minimizing the impact of disasters. It begins with state, tribal, and local governments identifying natural disaster risks and common vulnerabilities in their area. After identifying these risks, they develop long-term strategies for protecting people and property from similar events. Mitigation plans are vital to breaking the cycle of disaster damage and reconstruction."



# Why Do Hazard Mitigation Planning?



## City of Alamogordo Hazard Mitigation Plan XXX 2018

Encompassing the Jurisdictions of:  
City of Alamogordo, New Mexico



Prepared by:

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Hazard Mitigation Planning provides communities with a roadmap to aid in the creation and revision of policies and procedures, and the use of available resources, to provide long-term tangible benefits to the community.

***We will be completing the update of the City's Local Hazard Mitigation Plan drafted and approved in 2018!***



# How Can Hazard Mitigation Planning Help?

- Build for a safer future for all citizens
- Foster cooperation for planning and resiliency
- Identify, prioritize and mitigate against hazards
- Assist with sensible and effective planning and budgeting
- Educate citizens about hazards, mitigation and preparedness



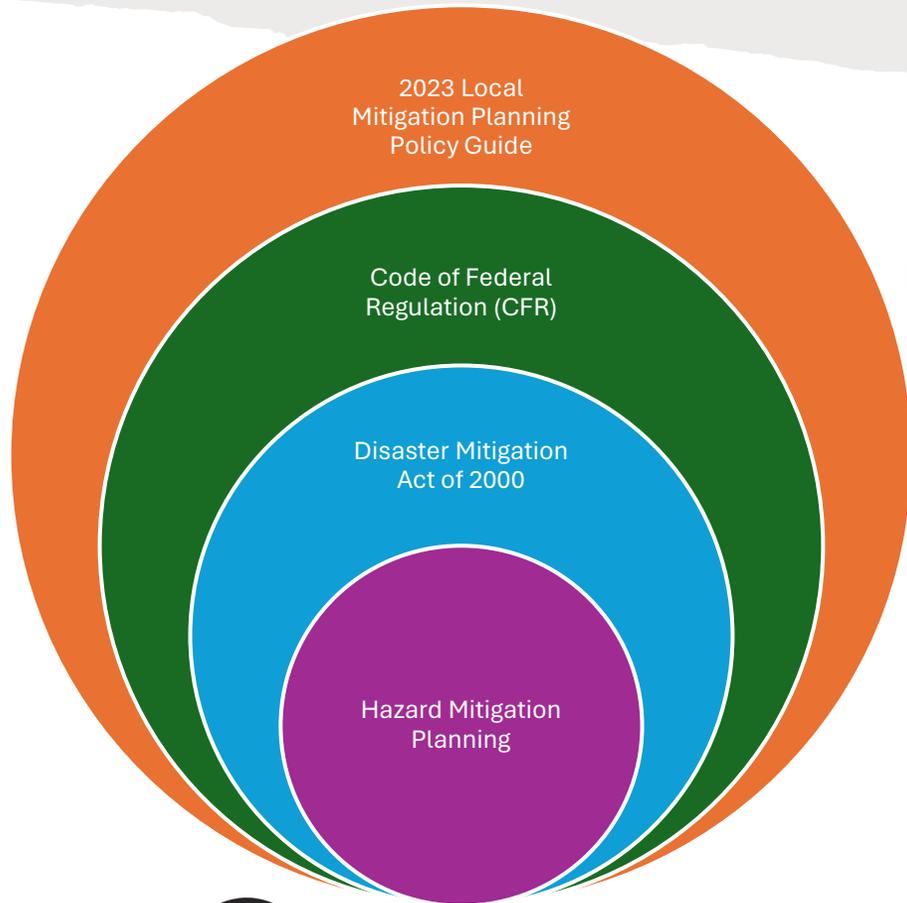
# Why We Mitigate?



- Image Sources:**
- Drought: [CNN](#)
  - Flood: [Ready.gov](#)
  - Hazardous Material: [UC Santa Cruz](#)



# Hazard Mitigation - A Regulatory Process



These components provide a comprehensive regulatory framework for effective hazard mitigation planning, ensuring preparedness and resilience against potential disasters.

***All Hazard Mitigation Plans must be updated and approved every five (5) years!***

***During the five (5) year period communities with approved hazard mitigation plans are eligible to apply for FEMA Hazard Mitigation Assistance Grant Program.***



# FEMA Hazard Mitigation Assistance Grants

- Currently, four (4) FEMA grant programs provide funding to local entities for hazard mitigation planning.
  - Three (3) of the grant programs are authorized under the Stafford Act.
  - The remaining two (2) programs are authorized under the National Flood Insurance Act and the Bunning-Bereuter-Blumenauer Flood Insurance Reform Act.

Rebuilding my community **after a major disaster** in a way that reduces future disaster losses.

Hazard Mitigation Assistance Program (HMGP)

Helping my community reduce risks from **future disasters** and natural hazards.

Building Resilient Infrastructure and Communities (BRIC)

Reducing the risk of **flood damage** to NFIP-insured buildings.

Flood Mitigation Assistance (FMA)

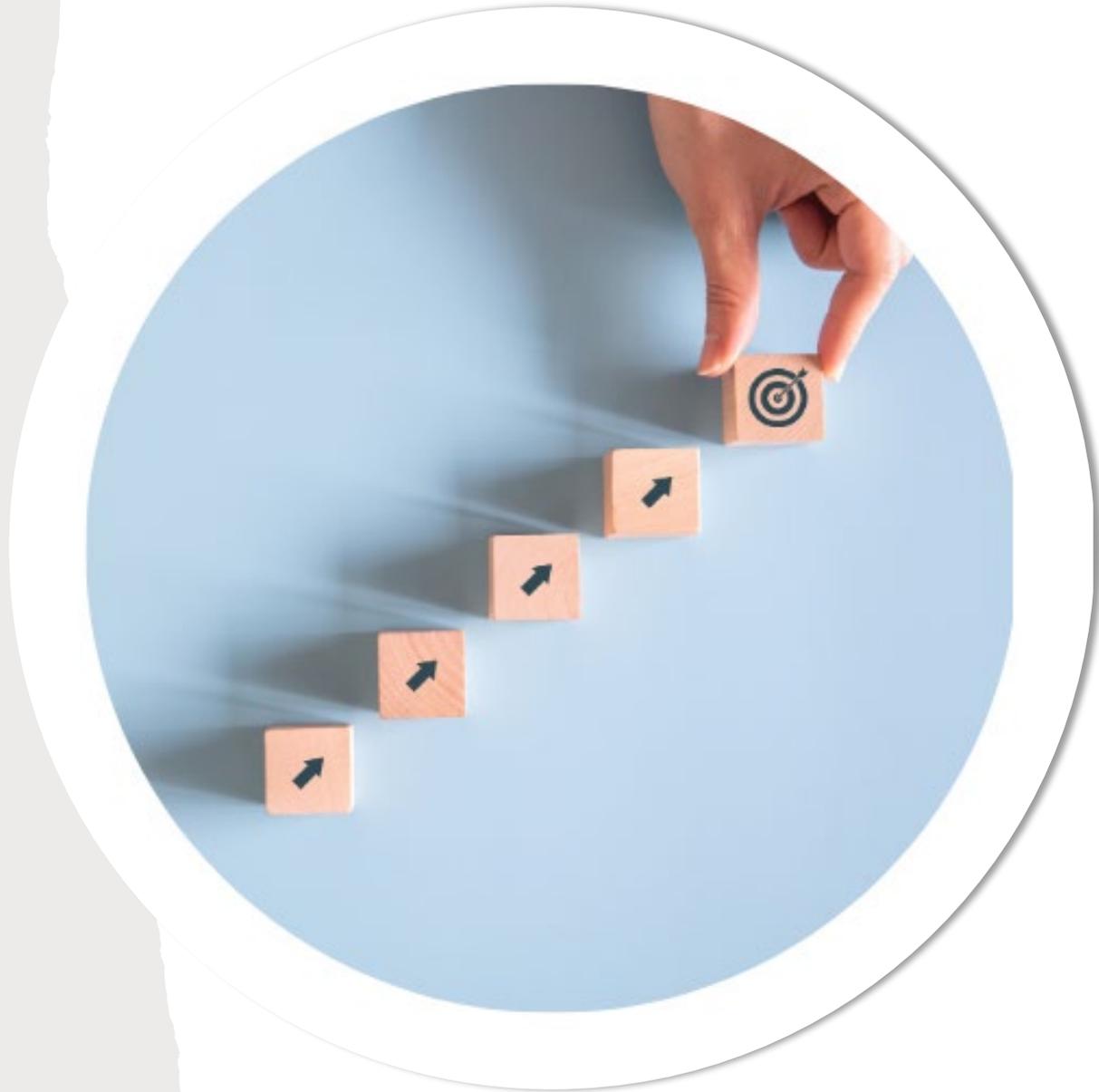
Making my community more resilient after a **wildfire disaster**.

HMGP Post-Fire Assistance

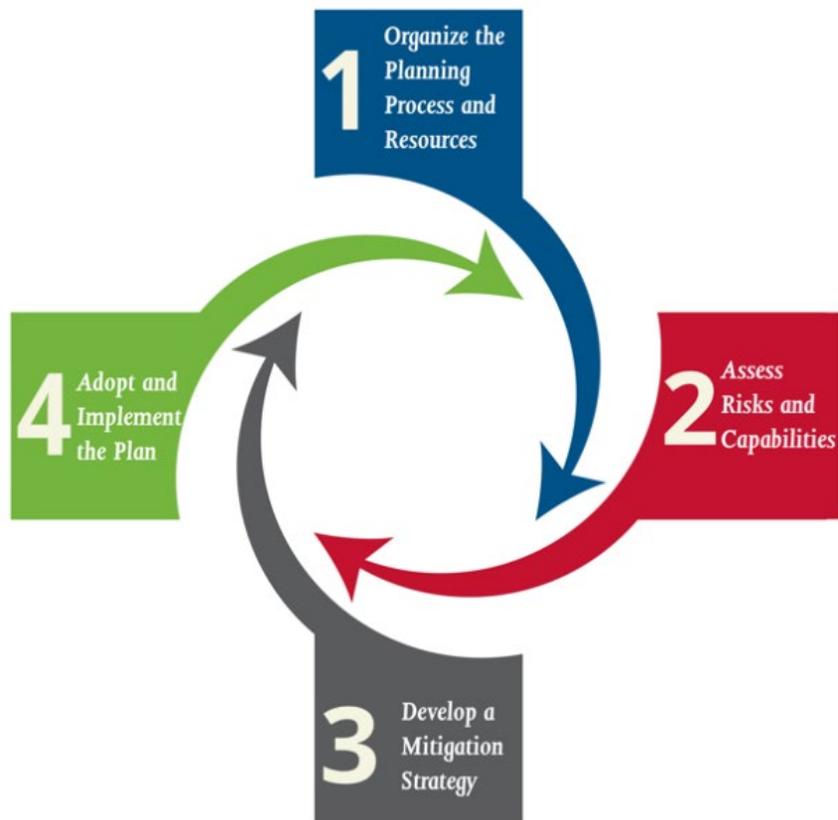
Source: <http://www.fema.gov/grants/mitigation>



# Hazard Mitigation Planning Process Steps



# Hazard Mitigation Planning Process



According to FEMA's [Local Mitigation Planning Fact Sheet \(2021\)](#), there are four (4) steps jurisdictions should follow during local mitigation planning, as illustrated in the following graphic.

The planning process encourages communities to integrate mitigation into their day-to-day decision-making about land use planning, floodplain management, site design, and other functions.

Source: [www.tema.gov/emergency-managers/risk-management/hazard-mitigation-planning/create-hazard-plan/process](http://www.tema.gov/emergency-managers/risk-management/hazard-mitigation-planning/create-hazard-plan/process)



# Planning Step 1: Organize the Planning Process and Resource

Hazard Mitigation Planning Committee  
and Public Involvement

Hold Kick-off Meetings

Review Existing Plan

Collect Data and Community Information



# Hazard Mitigation Planning Committee

The Hazard Mitigation Planning Committee is composed of a diverse group of stakeholders, each bringing critical insights and expertise to the planning process.

Some duties of the committee are:

- Assists with the collection of data and information
- Reviews planning elements and drafts
- Assists with the revision and development of mitigation actions
- Will assist with integrating hazard mitigation planning elements with other planning mechanisms





# Hazard Mitigation Planning Committee

## FEMA Community Lifelines

**New update for the HMP Planning Process:  
Inclusion of FEMA Community Lifelines to the  
Planning Process**

- FEMA developed the community lifelines construct to increase effectiveness in disaster operations and better position the Agency to respond to catastrophic incidents
- By definition, a lifeline enables the continuous operation of critical business and government functions and is essential to human health and safety or economic security.



# Hazard Mitigation Planning Committee FEMA Community Lifelines

## Community Lifelines

[lifelines@fema.dhs.gov](mailto:lifelines@fema.dhs.gov)

[fema.gov/media-library/assets/documents/177222](https://www.fema.gov/media-library/assets/documents/177222)

### 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 requiring sustainment).

COMPONENTS of Lifelines



# Resources, Team, & Involving the Public

- The community must make a commitment to have functional, comprehensive and inclusive mitigation plans.
- Interested parties and pertinent stakeholders should be invited and included in the development process.
  - Individuals include everyone from neighboring jurisdictions and response professionals, to include county and city planners.
  - Expertise and experience is invaluable in developing the most accurate risk assessment and effective mitigation strategy.
- The public should be given a chance to ask questions and review the plan in order to encourage and influence their support.



# Resources, Team & Involving the Public

## New update for the HMP Planning Process: Required Outreach to the Socially Vulnerable

- **Social vulnerability** refers to a community's capacity to prepare for and respond to the stress and impacts of hazardous events ranging from natural disasters, such as earthquakes or disease outbreaks, to human-caused threats, such as toxic chemical spills.
- The Center for Disease Control and Prevention (CDC) has developed a **Social Vulnerability Index (SVI)** to measure the resilience of communities when confronted by external stresses such as natural or human-caused disasters or disease outbreaks.



# Resources, Team & Involving the Public

## New update for the HMP Planning Process: Required Outreach to the Socially Vulnerable and Underserved Community

- Examples of groups that should be included in community outreach efforts during this process:
  - Individuals with Access and Functional Needs
  - Tribal Communities
  - Veterans/Military Community
  - Members of the LGBTQ+ Community
  - Homeless or Displaced
  - Elderly and youth population
  - Institutionalized populations such as those in prison/jail, group homes and nursing homes
  - Immigrant populations especially non-English speaking

### WHOLE COMMUNITY

While each individual defines “community” differently, the “Whole Community” refers to all individuals and families (including those with access and functional needs), businesses, faith-based and community organizations, nonprofit groups, schools and academia, media outlets, and levels of government, (including state, local, tribal, territorial, and federal partners). The Whole Community has a shared responsibility for emergency preparedness and mitigation.



# Resources, Team & Involving the Public Data Collection



- During this process, we will collect information from City Official, City Departments, State Agencies, and Stakeholders to include in the plan update.
- We will also be soliciting feedback from the community via two surveys:
  - City Official Survey
  - Community Survey



# Planning Step 2: Assess Risk and Capabilities

Verify Critical Facilities List

Develop Community Profiles

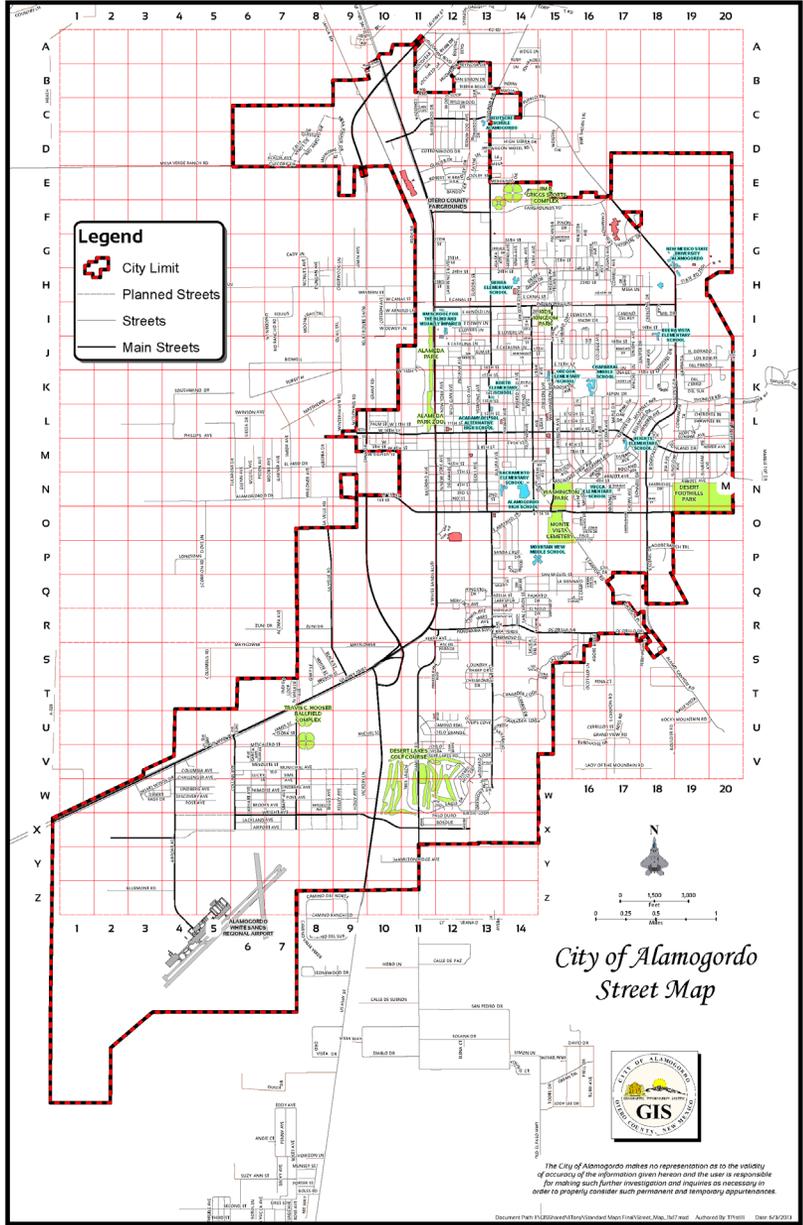
Identify Hazards & Collect Hazard  
History

Calculate Future Probability

Analyze Land Use & Development  
Trends



# Develop Community Profile City of Alamogordo Planning Area



Map Source: City of Alamogordo, NM GIS



# Identify Hazards & Collect Hazard History

## Alamogordo, NM Storm Data from NOAA Storm Database

Date: January 1, 2018, January 31, 2024

- Storm Events: 345 events reported with 10 different event types
  - 139 total days affected by the events
  - Seven (7) counties were affected by these events, including Otero County
  - **Property Damage totaling \$884,000**
  - **Injuries/Deaths: 1 Injured/0 Deaths**

**SMART INVESTING  
MITIGATION SAVES**

**EVERY \$1  
SPENT ON  
MITIGATION,  
SAVES \$6  
ON FUTURE  
DISASTER  
LOSSES**

Natural Hazard Mitigation Saves: 2017 Interim Report  
nibs.org/mitigationsaves

National Institute of  
BUILDING SCIENCES

FEMA



# Identify Hazards & Collect State of New Mexico's Hazards of Concern 2023-2028

- Dam Failure
- Drought
- Earthquake
- Extreme Heat
- Expansive Soil
- Flood/Flash Flood
- High Wind
- Landslide
- Land Subsidence
- Severe Winter Storms
- Thunderstorms (including Lightening and Hail)
- Tornadoes,
- Volcanoes
- Wildfire



# Identify Hazards & Collect

## City of Alamogordo, NM Hazards of Concern 2018 vs 2024

### Hazards from 2018 LHMP Plan Update

- Drought
- Flooding
- Wildfire
- Winter Storms

### Hazards for this LHMP Plan Update

- Drought
- Flooding
- Wildfire
- Winter Storms
- **Wind**

**New update for the HMP Planning Process:  
Include description of Climate Impact for each hazard of concern.**

***The risk assessment section of the plan update must discuss the impacts of climate change. Including this impact will show how climate change may shift the City's exposure to the hazard over time and will also be a guide to long term planning for hazard mitigation .***



# Why are some Hazards Excluded

In the last plan update (2018), identified the following hazard will be excluded from the LHMP update:

- **Dam Failure:** For the City of Alamogordo hazard mitigation plan, only natural hazards are included. Therefore, manmade structures like dams were not included in the plan.
- **Earthquakes:** Earthquake does not pose a threat to the City of Alamogordo in a risk area that would constitute reasonable threat or risk to be included in the hazard mitigation plan.
- **Volcanic Eruption:** The State of New Mexico Hazard Mitigation Plan does not identify the City of Alamogordo as a risk for a volcanic eruption. Further, there is no evidence from USGS that says the planning area is at any risk, reasonable or otherwise.



# Identify Hazards & Collect Hazard Vulnerability and Risk Assessment

During this section of the plan, will analyze the following for the jurisdiction:

- Hazards
- History
- Vulnerability

Conduct Final Risk Assessment:

- Where appropriate, use HAZUS-MH to model losses for the following hazards:
  - Flooding
  - Wind



# Identify Hazards & Collect Evaluate and Prioritize Risk

FEMA defines assets as:

- People: including the underserved communities and socially vulnerable
- Structures: including facilities, community lifelines and critical infrastructure
- Systems: including networks and capabilities
- Natural, historic, and cultural resources
- Activities that have value to the community (i.e. tourism)

This section will include hazard assessment and evaluation of vulnerabilities by:

- Evaluate the risk/hazards and its effect on assets
- Prioritize the Hazard
- Prioritize based on:
  - Ability to mitigate
  - Cost to mitigate
  - Alternative measures
  - Cost Effectiveness



# Planning Step 3: Develop the Mitigation Strategy



# Mitigation Goals from the 2018 LHMP Plan

The following goals from the 2018 LHMP plan were established during the last planning period. During this planning process, we will review and update the mitigation goals to ensure they continue to represent the City's long-term vision for the continued reduction of hazard risk and enhancement of mitigation capabilities:

- Goal 1: Reduce the impact of flood in the community.
- Goal 2: Procuring and developing alternative water sources.
- Goal 3: Minimize the effects of hazardous conditions that might cause loss of life and property. Reduce the economic impact of wildfires.
- Goal 4: Protect structures from winter storm damage.
- Goal 5: Maintain road system circulation capacity.



# Mitigation Plan Objectives and Strategy

- Update Mitigation Goals and Objectives
- Develop the Mitigation Strategies
- Based on risk and local input, determine the strategy
  - Set objectives for all vulnerable hazards
  - Develop a long-term, comprehensive and inclusive strategy
  - Determine mitigation project options and alternatives
  - Assess mitigation projects using STAPLE+E
  - Determine integration procedures



# Planning Step 4: Implement the Plan and Plan Adoption

## Conduct Closeout Meeting with the Public and Steering Committee (Open Comment)

- Integrate Comments and Feedback

## Incorporate Comments from Open Comment Period

- Integrate Comments and Feedback from Open Comment Period for Plan Draft before State of NM Submission

## Submit Plan for Review

- Submit the plan to NM Department of Homeland Security and Emergency Management & FEMA

**Revise an(if Necessary) per NMDHSEM and FEMA's Recommendation to Edit Plan**

## FEMA Adoption & Approval

- Upon FEMA APA (approval pending adoption); disseminate jurisdiction to be signed to complete the adoption package for FEMA

## Implement, Evaluate, & Review

- Over the next five (5) years following the adoption of the plan update, the City of Alamogordo must:
- Begin to implement the plan
- Regularly evaluate its effectiveness
- Review it for necessary changes



# Next Steps



# Data Collection Survey

## City Officials/Department Survey

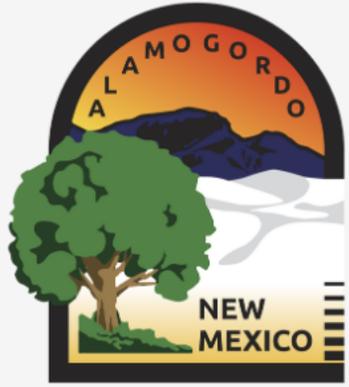
**Survey Timeline:** May 9 - May 30

**Audience:** City Officials/Department Heads/Stakeholders

**Intent:** This survey aims to capture input from city officials, department heads, and stakeholders. This feedback is crucial to building an effective hazard mitigation plan because hazard mitigation is a community effort. Your input will be used to assess the risks and impacts of natural hazards in the City and learn about the growth and development within the City over the last five years.

**How to Complete:** Use this QR code or be on the lookout for a link to the survey in the meeting follow-up email.





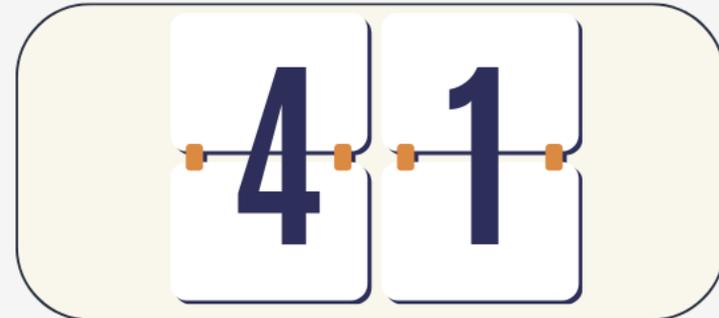
LOCAL  
MITIGATION  
PLANNING  
COMMITTEE

LHMP  
MITIGATION  
STRATEGY  
UPDATE  
MEETING

06.19.24

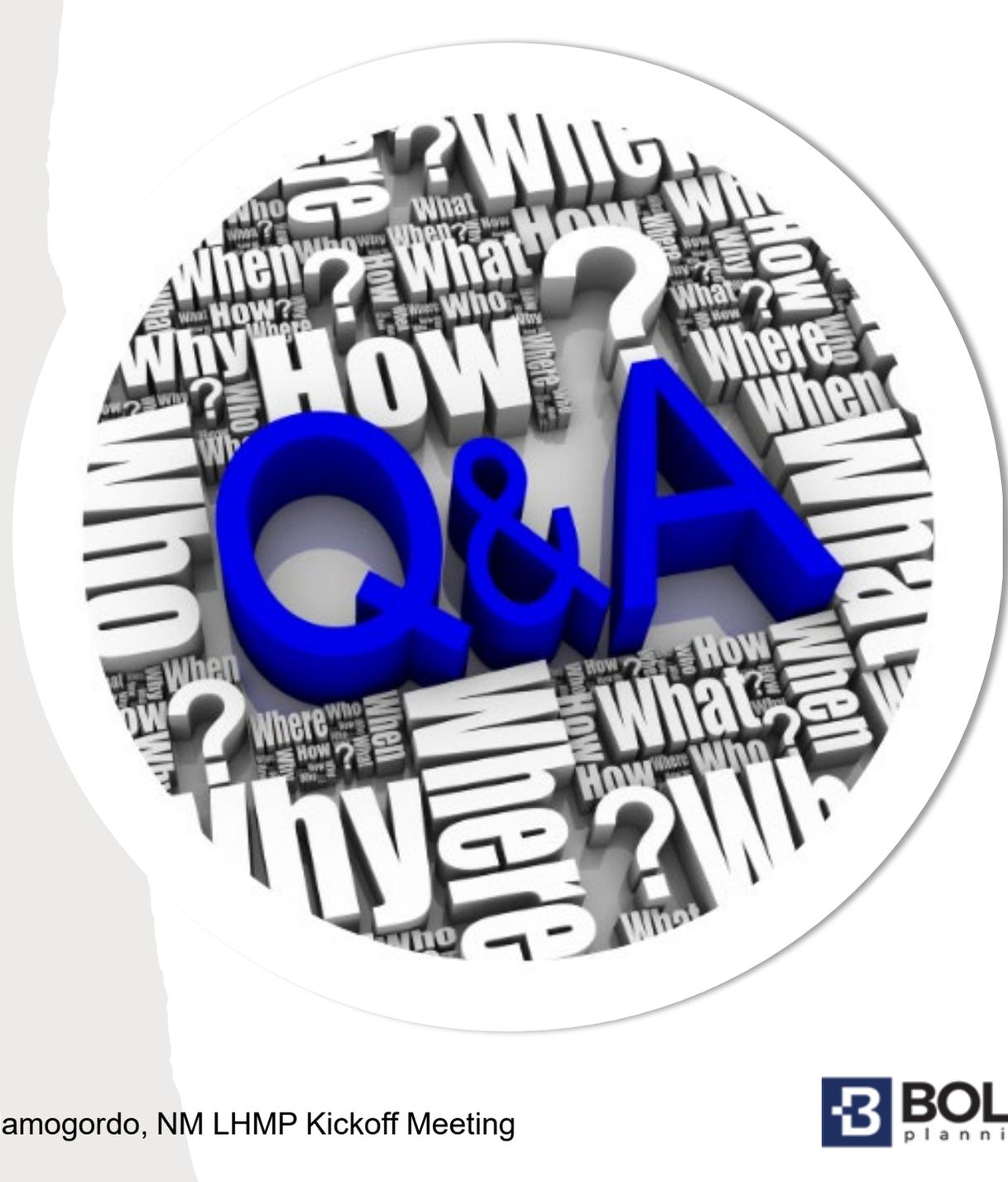
*Save the  
Date!*

Meeting Countdown



*Meeting Registration Link  
Coming Soon!*

# Questions & Answers



# Kickoff Meeting Follow-Up Information

Please contact the following individuals with questions or feedback regarding the meeting or project:

- **City of Alamogordo Representative: Jerry Ramirez, Fire Chief**

- Email: [jramirez@ci.alamogordo.nm.us](mailto:jramirez@ci.alamogordo.nm.us)

- **BOLDplanning Project Manger/Lead Hazard Mitigation Planner:  
Emily Long**

- Email: [emily@southerncharmcn.com](mailto:emily@southerncharmcn.com)





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