Plan Maintenance, Updates, and Implementation

Housekeeping and Virtual Tour

- Technology Tour:
  - Polls.
  - Menti Board.
  - Annotation.
  - Chat and comment function.
  - Breakout rooms.

- Remember to mute!

- Recording.

- Follow-up:
  - Slides will be shared!
    - We will be providing an electronic certificate.

For any tech issues, message Toby Davine directly using the chat.

FEMA

Cal OES
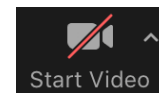GOVERNOR'S OFFICE
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We will be Recording this Presentation

- Please be advised that FEMA and CalOES (through their contractor) will be recording this course.

- The purpose of the recording will be to use for future reference, share with individuals who were unable to attend the presentation, and potentially otherwise at the agencies' discretion.

- By attending this course you are consenting to these conditions. Please be advised you can choose to self-identify or not during the Q&A.
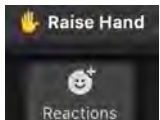
Housekeeping and Virtual Tour
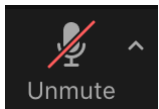
- Please mute yourself when not speaking. To mute and unmute, select the microphone icon, or press *6 on a phone. Please only use one method to mute/unmute yourself to avoid 'double muting'.

- If you have a question or comment, please use the chat box or the Raise Hand function on the top of your screen. This alerts the facilitator that you would like to speak. Click again to lower your hand after speaking.
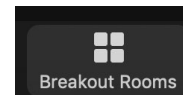
Use video, if possible, to promote face to face communication. Click the video icon to turn on your webinar camera.
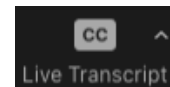
Live Transcript available.

Join a breakout room.

For any tech issues, message Toby Davine directly using the chat.

Live Transcript
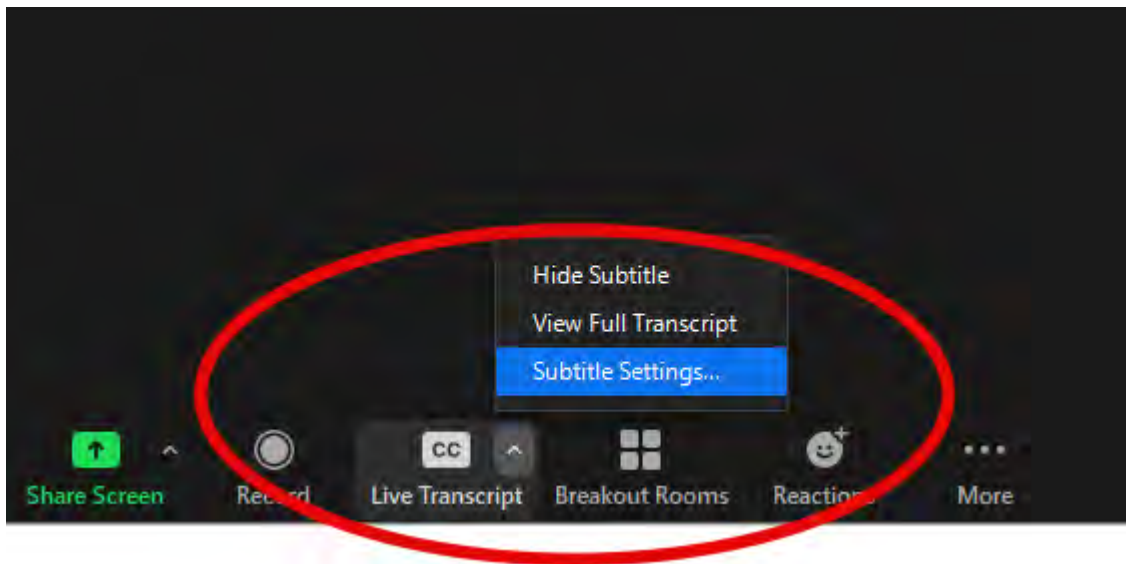
- Zoom application settings allow customization of subtitles.

For any tech issues, message Toby Davine directly using the chat.

Let us know: If you were an ice cream flavor...

- What would you be? And why?

- Share your response in the chat!

Welcome!

Virtual G-318 Workshop: Local Mitigation Planning

- Module 1: The Planning Process

- Module 2: Conducting a Risk Assessment

- Module 3: Developing a Mitigation Strategy

- **Module 4: Plan Maintenance and Implementation**

Welcome!

Thank you for joining **Module 4: Plan Maintenance and Implementation.**

Today, we'll discuss:
- Plan Maintenance.
- Considerations for Plan Updates.
- Plan Implementation Overview.
- Moving Mitigation Forward.

This will be followed by the Office Hour and an introduction to the Resource Library.

Today's Speakers

We'll hear from:

- JoAnn Scordino, Community Planner, FEMA Region 9
- Xing Liu, Community Planner, FEMA Region 9
- Erik De Kok, Program Manager, Planning & Community Development, California Office of Planning and Research
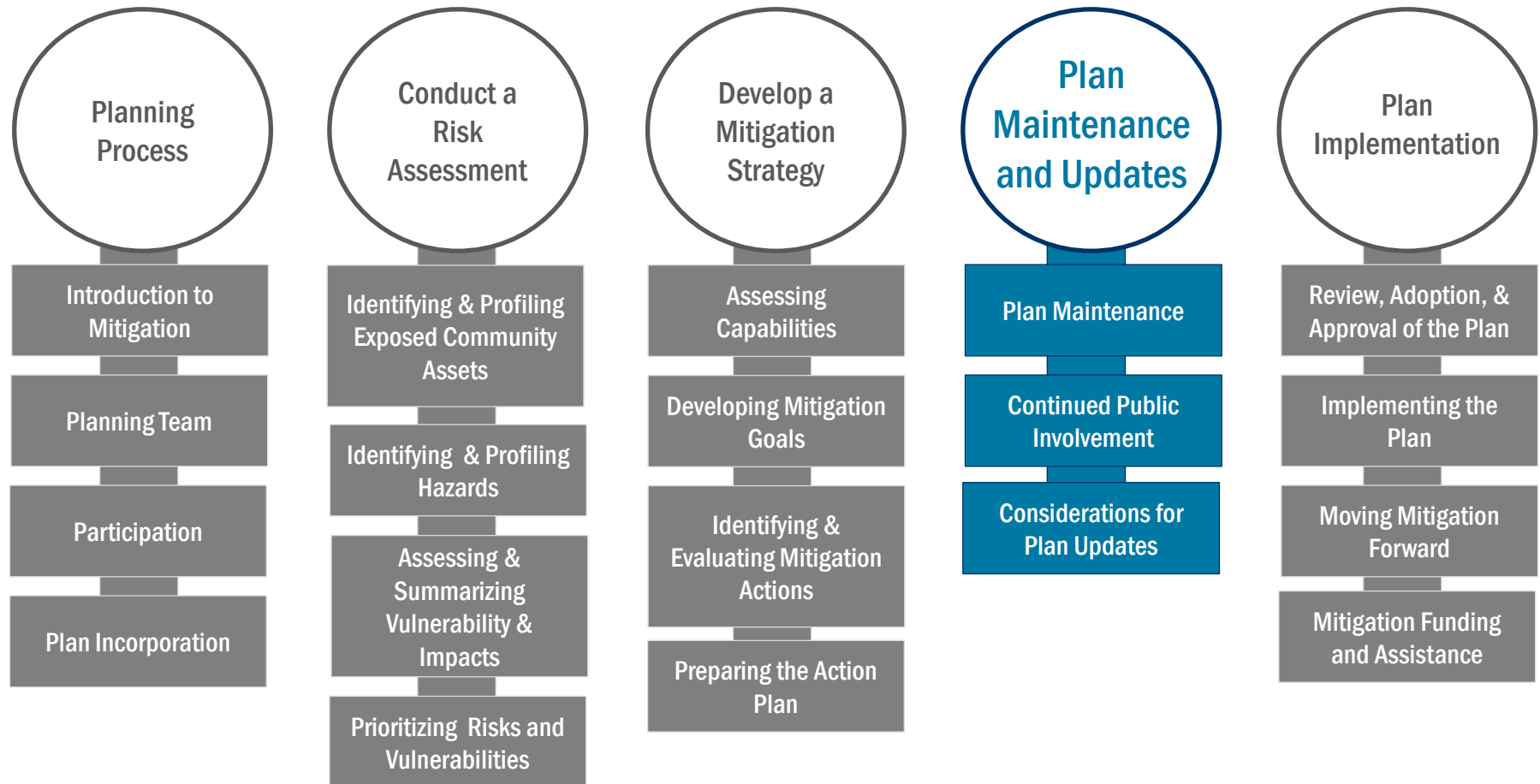
Today's Agenda

9:00 AM – 9:15 AM	Welcome and Technology Tour
9:15 AM – 11:30 AM	Plan Maintenance and Implementation • Learning Sessions • Breaks • Guest Presentation
11:30 AM	Module Evaluation
11:30 AM – 12:00 PM	Office Hour/Resource Library Walk-through

Plan Maintenance

Mitigation Training and Technical Assistance Modules

Planning Process
- Introduction to Mitigation
- Planning Team
- Participation
- Plan Incorporation

Conduct a Risk Assessment
- Identifying & Profiling Exposed Community Assets
- Identifying & Profiling Hazards
- Assessing & Summarizing Vulnerability & Impacts
- Prioritizing Risks and Vulnerabilities

Develop a Mitigation Strategy
- Assessing Capabilities
- Developing Mitigation Goals
- Identifying & Evaluating Mitigation Actions
- Preparing the Action Plan

Plan Maintenance and Updates
- Plan Maintenance
- Continued Public Involvement
- Considerations for Plan Updates

Plan Implementation
- Review, Adoption, & Approval of the Plan
- Implementing the Plan
- Moving Mitigation Forward
- Mitigation Funding and Assistance

What is Plan Maintenance?

- **Monitoring :** Track Hazard Mitigation Plan (HMP) implementation

- **Evaluating :** Assess effectiveness of the HMP at achieving its goals

- **Updating :** Revise the HMP to keep it current

When the plan is being written, make sure that the plan maintenance process works for how your community operates

Why is Sustained Plan Maintenance Important?

- Maintain momentum

- Integrate mitigation principles

- Account for changing conditions

- Build on successes

- Consultant Request for Proposals Development/ Procurement

- Plan Project Execution

How Will the HMP be Monitored?

- Monitoring should be an ongoing, regularly occurring implementation activity using:

  - Standard forms and procedures

  - Periodic meetings or agenda items for other established committee meetings

- Review your HMP post-disaster to identify potential mitigation projects

Monitoring Progress

- Identify a process to track progress and ensure strategy is being followed

- Have regular meetings with those involved in the planning process

WHO	WHAT	HOW	WHEN
Designate a Lead Person, Position, and Agency	Monitor Actions and Changes in Planning Team Members	Method for Tracking Actions and Progress and Evaluating Project Effectiveness	Schedule

Example: Redondo Beach 2021 HMP Implementation Workbook

WHAT IS THIS WORKBOOK?

The Local Hazard Mitigation Plan (LHMP) for the City of Redondo Beach features an evaluation of Redondo Beach's hazards as well as a variety of hazard mitigation actions corresponding to each hazard type. These actions are intended to preserve public safety, maintain critical municipal government operations and services when hazard events emerge, and empower community members to take hazard mitigation actions on an individual level. This Implementation Workbook (Workbook) is intended for use by City staff and decision makers after the LHMP is adopted. It will:

- Give clear instructions as to what to do following adoption of the LHMP.
- Simplify future updates to the LHMP.
- Assist the City in receiving grant funding relating to mitigation action.
- Guide annual plan review actions.

HOW DO I USE THIS WORKBOOK?

This Workbook can help City staff and decision makers in several different situations. If and when the events listed below occur, consult the respective sections of this Workbook for advice on how best to proceed:

- A disaster declaration has been announced
    - By the Redondo Beach City Council
    - By the State of California
    - By the federal government
- I want to apply for mitigation grant funding
- Redondo Beach is undergoing its budgeting process
- Redondo Beach is holding its annual meeting of the Hazard Mitigation Planning Team
- Redondo Beach is updating its annual policy and regulatory documents
    - The Local Hazard Mitigation Plan
    - The Safety Element of the General Plan
    - The Housing Element of the General Plan
    - The Zoning Code

WHO MAINTAINS THIS WORKBOOK?

The leader of the Hazard Mitigation Planning Committee (HMPC) is the one responsible for maintaining this Workbook. At the time of writing, the current HMPC leader is Robert Metzger, from the Redondo Beach Fire Department. The HMPC may delegate this responsibility to someone else should they so choose.

WHAT TO DO WHEN A DISASTER HAS BEEN PROCLAIMED OR DECLARED

Disasters may be proclaimed or declared by the Redondo Beach City Council, the State of California, or the federal government. Responsibilities may differ depending on who proclaims or declares the disaster. If multiple organizations proclaim or declare a disaster, consult all applicable lists.

THE REDONDO BEACH CITY COUNCIL

If the Redondo Beach City Council (or the Director of Emergency Services, if the City Council is not in session) proclaims a Local Emergency, take the following steps:

- ☐ Update **Attachment 1** with information about the disaster. Include information about cumulative damage, including any damage outside of Redondo Beach.
- ☐ Discuss opportunities for local assistance with the representatives from the California Office of Emergency Services (Cal OES).
- ☐ If the disaster damages local infrastructure or City-owned facilities, repair or rebuild the structure to be more resilient, following applicable hazard mitigation actions. A list of actions, organized by hazards, is included as **Attachment 4**.
- ☐ **Chapter 6** of the Redondo Beach LHMP states that the City should consider updating the LHMP if a disaster causes a loss of life in the community, even if there is no state disaster proclamation or federal disaster declaration that includes part or all of Redondo Beach. If there is a loss of life in Redondo Beach, consider updating the LHMP. Consult the section on updating the LHMP in this Workbook for details.

THE STATE OF CALIFORNIA

If the State of California proclaims a disaster for Redondo Beach, or an area that includes part or all of Redondo Beach, take the following steps:

- ☐ Update **Attachment 1** with information about the disaster. Include information about cumulative damage, including any damage outside of Redondo Beach.
- ☐ Collaborate with representatives from Cal OES to assess the damage from the event.
- ☐ Discuss opportunities for local assistance with representatives from Cal OES.
- ☐ If the disaster damages local infrastructure or City-owned facilities, repair or rebuild the structure to be more resilient, following applicable hazard mitigation actions. A list of actions, organized by hazards, is included as **Attachment 4**.
- ☐ If the disaster may escalate into a federal disaster declaration, begin any necessary coordination with representatives from the Federal Emergency Management Agency (FEMA).
- ☐ **Chapter 6** of the Redondo Beach LHMP states that the City should consider updating the LHMP if a disaster leads to a state disaster proclamation or federal disaster declaration that

How Will the HMP be Evaluated?

- Measuring how effective the plan has been at meeting its stated purpose and goals

- Evaluation can be part of quarterly monitoring or an annual Planning Team activity to:

  - Determine HMP effectiveness;

  - Determine upcoming next steps;

  - Recommend issues for HMP updates; and

  - Report progress.

Evaluating Effectiveness

- Consider the following questions:
  - Are the goals and objectives of the plan still relevant?
  - Are there enough resources available to implement the plan?
    - Funds, people, or programs
  - What outcomes occurred that can demonstrate progress?
    - Were any different than expected?

- After a disaster:
  - What new data have you learned from the experience?
  - Did any of your completed actions reduce impacts?

When Will the HMP be Updated?

- Develop a method and schedule for updating the HMP on a 5-year cycle

- Identify a timeline for annual updates and reporting progress

  - Include successes, challenges, and requests for technical assistance and training

- Determine a responsible party for the update process

- Estimate a practical schedule

- Identify steps in the process
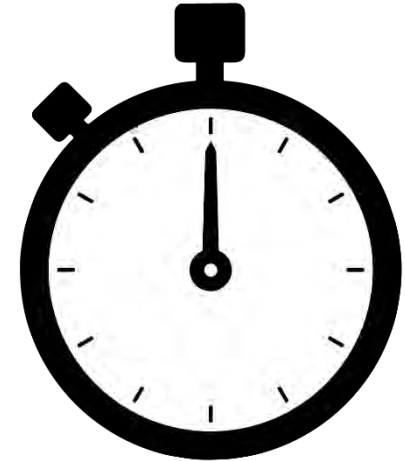
When Will the HMP be Monitored and Evaluated?

	Monitoring: Tracking implementation of mitigation actions	Evaluating: Assessing effectiveness at achieving HMP goals
When	Quarterly	Annually or after a disaster event
What	Compile progress reports from responsible parties and identify mid-course corrections	Evaluate implementation process and results and identify lessons learned

Continued Public Involvement

Maintaining Engagement

How do you intend to incorporate sustained public and stakeholder involvement?

Participating Jurisdictions	Stakeholders	General Public
• Municipal government • Others actively involved in the process	• Business interests • Not-for-profit organizations • Other advisors	• Residents • Anyone else who may engage with the process

Keep Your Stakeholders Involved

- Sustained involvement by public officials and other stakeholders is needed for successful implementation

- Keep public officials involved so they stay aware and engaged in annual plan updates

    - Identify existing meetings where the annual review could happen

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Opportunities for Public Involvement

- Think about the ways community members provide feedback on public processes in your community.

- Use these opportunities to talk about mitigation and get feedback on areas of concern.

- Also consider: are there any groups within your community that do not normally participate in the public process? How can you reach them?

Zoning Meetings	Capital Improvement	Comprehensive Plans	Economic Development

Break

Considerations for Plan Updates

How Will the HMP be Updated?

A sustained effort by the Participating Jurisdictions is required to reflect:

- New information regarding hazards, risk, and assets
  - Information from recent hazard events
- Changes in demographics, development, etc. (even for special districts)
- Progress in implementing mitigation actions
- Changes in priorities

Updating the Planning Process

- Who participated in the process last time?

- Which engagement techniques were most effective? Whose voices were or were not heard?

- Has there been staff turnover between the previous plan and now?

- Who should be included this time in terms of staff, departments, or partners?

Updating the Risk Assessment

- **What has changed?**

    - Has there been any development or redevelopment?

    - How has vulnerability changed?

    - How is population shifting?

    - What new community assets exist?

- **What has stayed the same?**

Updating the Risk Assessment

- What events have occurred since the last plan?

- What new data needs to be incorporated?

Initial Plan — 5-year Lifespan — Plan Update

Updating the Mitigation Strategy

- Look at your previous Capability Assessment

- Are there new plans or regulations?

- Have there been personnel changes that might affect the community's ability to implement mitigation?

- Account for progress in action implementation

- Describe how the plan was incorporated into other decisions

Updating the Mitigation Strategy

- **How have priorities changed? – Be Explicit!**
  - Identify new actions based on updated risk and capability assessments
  - Reprioritize with remaining actions from the previous plan
  - Factors influencing changes:
    - Hazard events and recovery priorities
    - Rate of growth and development
    - Progress of hazard mitigation efforts
    - Political and economic changes
    - New State or Federal funding sources

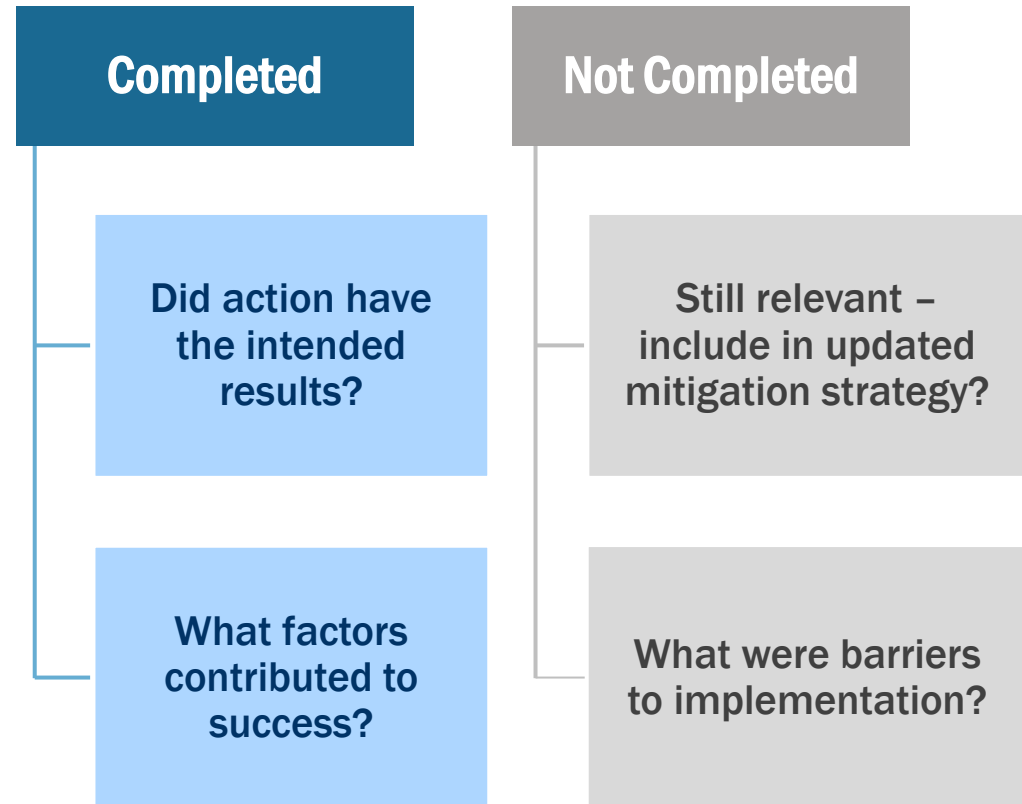# How to demonstrate changes in priorities?

Example: Butte County 2019 Plan

- **Completed after Paradise Fire**
- **Highlighted increases in vulnerability to wildfire**
- **Identified changes in mitigation priorities**

2019 LHMP Update Hazards	Decrease in Vulnerability	No Change in Vulnerability	Increase in Vulnerability
Wildfire			X

➤ Climate change continues to affect the nature and intensity of wildfires.

➤ Compounded by current drought conditions (increasing tree mortality and overall wildfire conditions) and followed by heavy rains, the wildfire hazard has substantially increased and is no longer just a seasonal issue. The wildfire season, including the potential for a catastrophic wildfire, is now a year around concern.

➤ The increased development in WUI areas within the County also contributes to an increase in vulnerability.

➤ Effective fuels management within the County continues to be an issue with the large numbers of absentee owners in wildfire prone areas.

➤ Century old and aging infrastructure has contributed to the wildfire issue. This includes being a primary cause of wildfires, such as in the Camp Fire, as well as making wildfire more difficult to battle once an ignition has occurred.

➤ The road network and infrastructure, including construction, connectivity, and ingress-egress issues compound the wildfire vulnerability and impact.

➤ Wind has been a major contributor to the potential for a catastrophic wildfire. And when combined with extreme heat, also can trigger a PSPS which leaves the community at risk in other ways.

➤ With large wildfires occurring throughout California, the Planning Area has seen a significant change in air quality from smoke resulting in more recorded bad air days.

➤ Catastrophic wildfires in northern counties has created other issues in the County, as evacuees flee the fires and look to nearby communities for temporary housing. This was clearly evident with the Camp Fire, where a significant loss in housing stock has made post fire recovery in Paradise uncertain.

➤ Recent wildfires, such as the Camp Fire, continue to contribute to the wildfire issue, as the Planning Area is seeing a change to more grassy, fine fuels as compared to the large, forested areas of the County.

➤ Historically, poor land use planning, lack of adherence to more preventative building construction standards, and ineffective code enforcement has led to more communities being at risk and vulnerable to large, devastating wildfires.

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Updating the Mitigation Strategy

- What is the status of each action?

- Were actions implemented as planned?

Completed	Not Completed
Did action have the intended results?	Still relevant – include in updated mitigation strategy?
What factors contributed to success?	What were barriers to implementation?

Sample Action Plan Update

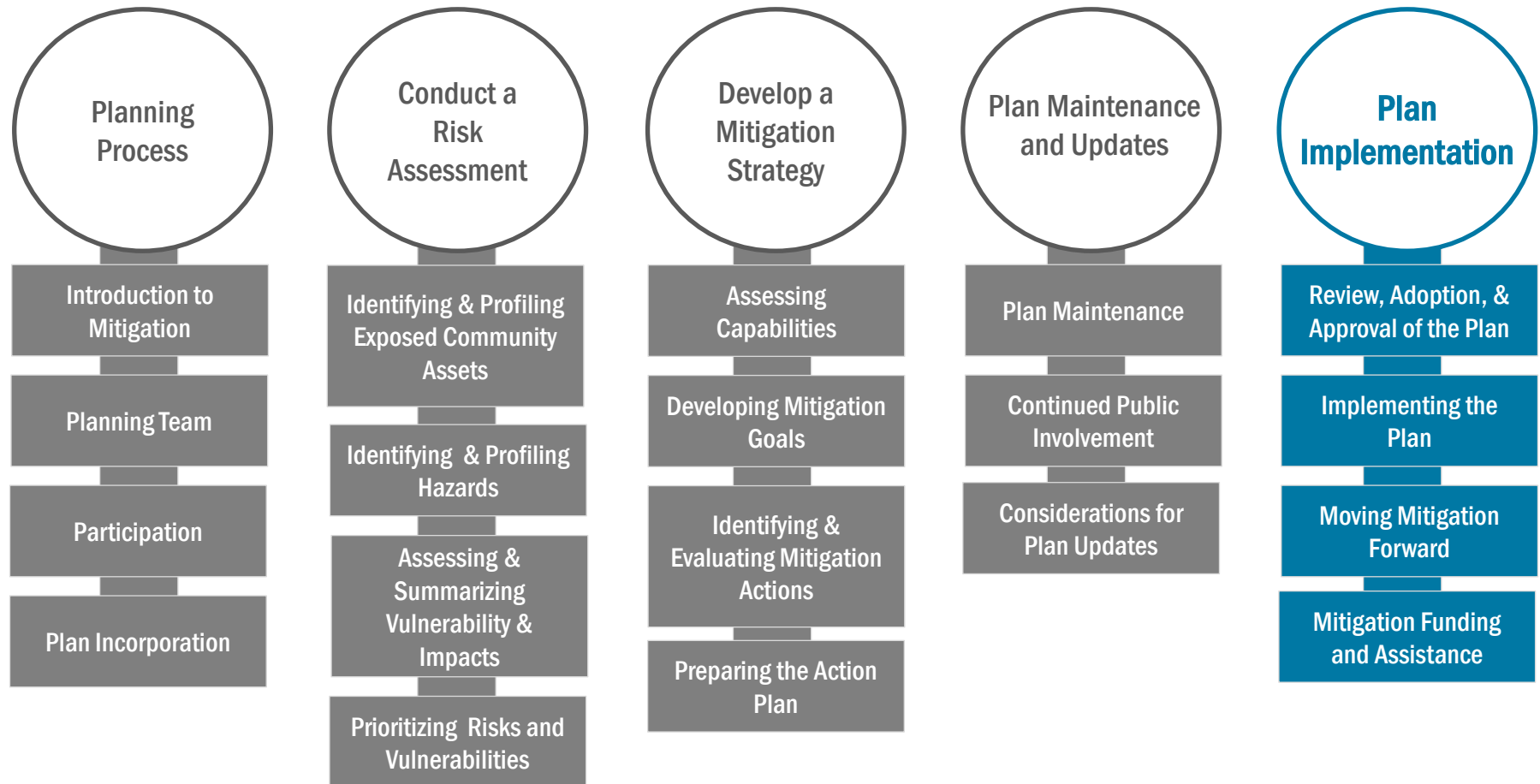| Action	Hazard Addressed	Responsible Party(ies)	Potential Cost	Project Priority	Status
Install larger culverts under Interstate 2 to improve waterflow downstream in the event of flooding.	Flooding	Department of Transportation	$50,000	High	Completed
Join the Firewise program.	Wildfire	Local Fire Department and Community Planning & Permitting	Staff Time and Resources	Medium	Not complete. Application is in progress.
Require new housing developments and other facilities to use low-flow water fixtures.	Drought	Town Council, Building Code Enforcement	Staff Time and Resources	High (formerly low)	Not complete. Awaiting grant funds. Upgraded to high priority due to elevated drought risk.
Use preventative measures to reduce potential for wildfires (goats, prescribed burns).	Wildfire	Fire Department	$5,000	Low	Complete. Community now works with local farmers to reduce wildfire risks.

Plan Implementation Overview

Mitigation Training and Technical Assistance Modules

Planning Process
- Introduction to Mitigation
- Planning Team
- Participation
- Plan Incorporation

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Plan Implementation
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- Implementing the Plan
- Moving Mitigation Forward
- Mitigation Funding and Assistance

| INTRO | ADOPTION | IMPLEMENTATION | MOVING FORWARD | FUNDING |

Review, Adoption, and Approval of the Plan

Why is Adopting the Plan Important?

- Signals a commitment to mitigation by the community

- Documents formal adoption by the governing body of each community

- Ensures eligibility for Hazard Mitigation Assistance (HMA) programs

- Required before the plan is formally approved
  - Approvable Pending Adoption is only the first step

State and FEMA Plan Review and Approval

Submit HMP to State Hazard Mitigation Officer for State review

↓

State submits to FEMA Region for review

↓

FEMA designates HMP as "Approvable Pending Adoption" and issues final Plan Review Tool

↓

Communities adopt HMP and submit resolutions

↓

FEMA issues approval letter and final Plan Review Tool

Revisions may be required
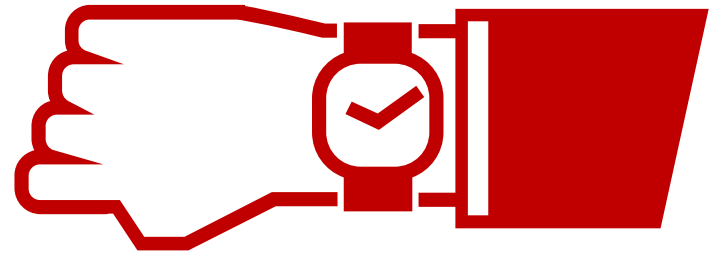
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Plan Review Tool (PRT)

- FEMA provides feedback on how to improve your plan in the PRT

- Refer back to the PRT Assessment Section to find feedback on what worked and where improvements could be made

The Clock is Ticking

- The approval timeline begins with the first jurisdiction to adopt

- Late adopters have less time to implement mitigation actions before the update process begins again

- HMA funding requires adoption of the plan

When you update your HMP regularly, you'll have less to do at the 5-year update.

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Break

Implementing the Plan

Keep Your Plan Alive: Risk Reduction Requires Action

- Implement your plan to:
  - Protect members of the community
  - Maintain public safety
  - Protect historical sites
  - Prevent damage to community assets
  - Reduce costs of disaster response and recovery
  - Improve local capabilities
 - Develop safely and sustainably

Common Challenges

- Competing and changing priorities

- Lack of interest or knowledge of mitigation

- Lack of funding and resources

- Insufficient political will

- Disconnect with day-to-day operations

- Staffing changes

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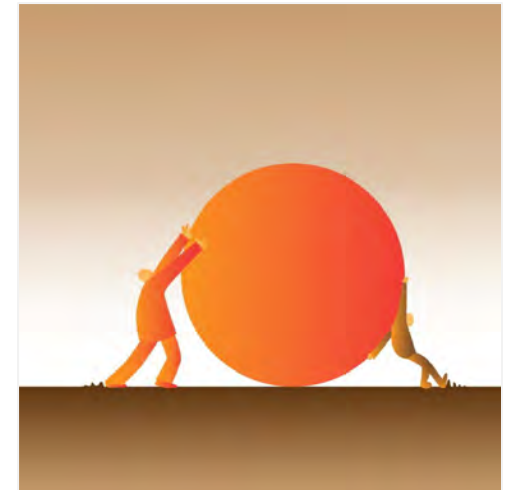
Possible Solutions

- **Expand education and outreach opportunities**
  - Consider partnering with others who have gone through the planning process and can speak to it, such as neighboring communities or academic institutions

- **Make stakeholders aware of the benefits through best practices**

- **Mitigation Champion**

- **Make competing priorities complementary**

- **Expand local capacity for mitigation**

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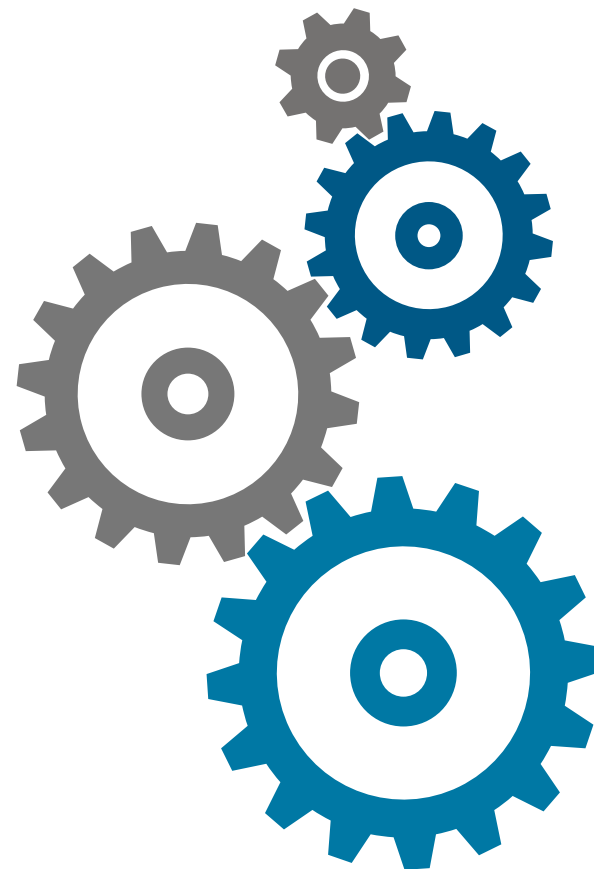
Moving Mitigation Forward

Setting Up for Success

- Use the post-disaster recovery period window of opportunity

- Focus on early wins

- Encourage champions

- Maintain your engagement

- Focus on quality over quantity

- Build on existing strengths

- Develop strong messaging

- Celebrate your successes!

Mitigation Funding and Assistance

Let's Make Mitigation Happen

- Grants

- Loans

- Local revenue

- Technical assistance

- In-kind services and materials

- Public-private partnerships

FEMA Hazard Mitigation Assistance (HMA) Funding Opportunities

HMGP

HAZARD MITIGATION GRANT PROGRAM

15% of estimated total federal assistance per major disaster declaration within each State

BRIC

BUILDING RESILIENT INFRASTRUCTURE AND COMMUNITIES

Annually appropriated, nationally competitive

FMA

FLOOD MITIGATION ASSISTANCE

Annually appropriated, nationally competitive, used for flood risk reduction to NFIP insured buildings

Example of Projects Eligible for HMA Funds

Infrastructure Projects

Example(s)
- Acquisition/ Demolition
- Elevation
- Soil Stabilization
- Generator
- Green Space Infrastructure

Planning Activities

Example(s)
- Local HMP Update
- Planning related activities

5 Percent Initiative Projects

Example(s)
- Public Awareness Campaign
- Warning Signs/ Notification Systems

Technical/ Advanced Assistance/ Management Costs

Example(s)
- Hydrology and Hydraulic (H&H) Study
- Architectural and Engineering Designs
- Benefit Cost Analysis (BCA)

HMA Project Eligibility By Program

Eligible Activities	HMGP	HMGP Post Fire	PDM	BRIC	FMA
1. Mitigation Projects					
Property Acquisition and Structure Demolition	Yes	–	Yes	Yes	Yes
Property Acquisition and Structure Relocation	Yes	–	Yes	Yes	Yes
Structure Elevation	Yes	–	Yes	Yes	Yes
Mitigation Reconstruction	Yes	–	Yes	Yes	Yes
Dry Floodproofing of Historic Residential Structures	Yes	–	Yes	Yes	Yes
Dry Floodproofing of Non-residential Residential Structures	Yes	–	Yes	Yes	Yes
Generators	Yes	–	Yes	Yes	–
Localized Flood Risk Reduction Projects	Yes	–	Yes	Yes	Yes
Non-localized Flood Risk Reduction Projects	Yes	–	Yes	Yes	–
Structural Retrofitting of Existing Buildings	Yes	–	Yes	Yes	Yes
Non-structural Retrofitting of Existing Buildings	Yes	–	Yes	Yes	Yes
Safe Room Construction	Yes	–	Yes	Yes	–
Wind Retrofit for One- and Two-Family Residences	Yes	–	Yes	Yes	–
Infrastructure Retrofit	Yes	–	Yes	Yes	Yes
Soil Stabilization	Yes	Yes	Yes	Yes	Yes
Wildfire Mitigation	Yes	Yes	Yes	Yes	–

HMA Project Eligibility By Program

Eligible Activities	HMGP	HMGP Post Fire	PDM	BRIC	FMA
Building Code Adoption	–	–	–	Yes	–
Post-Disaster Code Enforcement	Yes	–	–	Yes	–
Advance Assistance	Yes	–	Yes	Yes	–
5 Percent Initiative Projects	Yes	–	–	–	–
Aquifer Storage & Recovery**	Yes	–	Yes	Yes	Yes
Flood Diversion & Storage**	Yes	–	Yes	Yes	Yes
Floodplain & Stream Restoration**	Yes	–	Yes	Yes	Yes
Green Infrastructure**	Yes	–	Yes	Yes	Yes
2. Hazard Mitigation Planning	Yes	–	Yes	Yes	Yes
3. Technical Assistance		–	–	Yes	Yes
4. Management Cost	Yes	Yes	Yes	Yes	Yes

Planning-Related Activities (PRA)

- FEMA supports a variety of PRA through the HMGP and BRIC

- Up to 7 percent of a recipient's HMGP funding can be used for PRA

- BRIC NOFO determines planning setaside

- There is no limit to the dollar value of PRA that can be submitted by a community

- There is no limit to the number of PRA sub-applications that can be submitted by a community

Planning-related activities that are eligible for HMGP funding include:

- Update the mitigation strategy to reflect current mitigation and/or disaster recovery goals

- Update or enhance sections of the current FEMA-approved HMP

- Develop and deliver planning-related training

- Provide technical assistance to subrecipients on mitigation planning

- Evaluate the adoption and/or implementation of ordinances that increase resilience

- Integrate information from the current mitigation plan to enhance other planning efforts

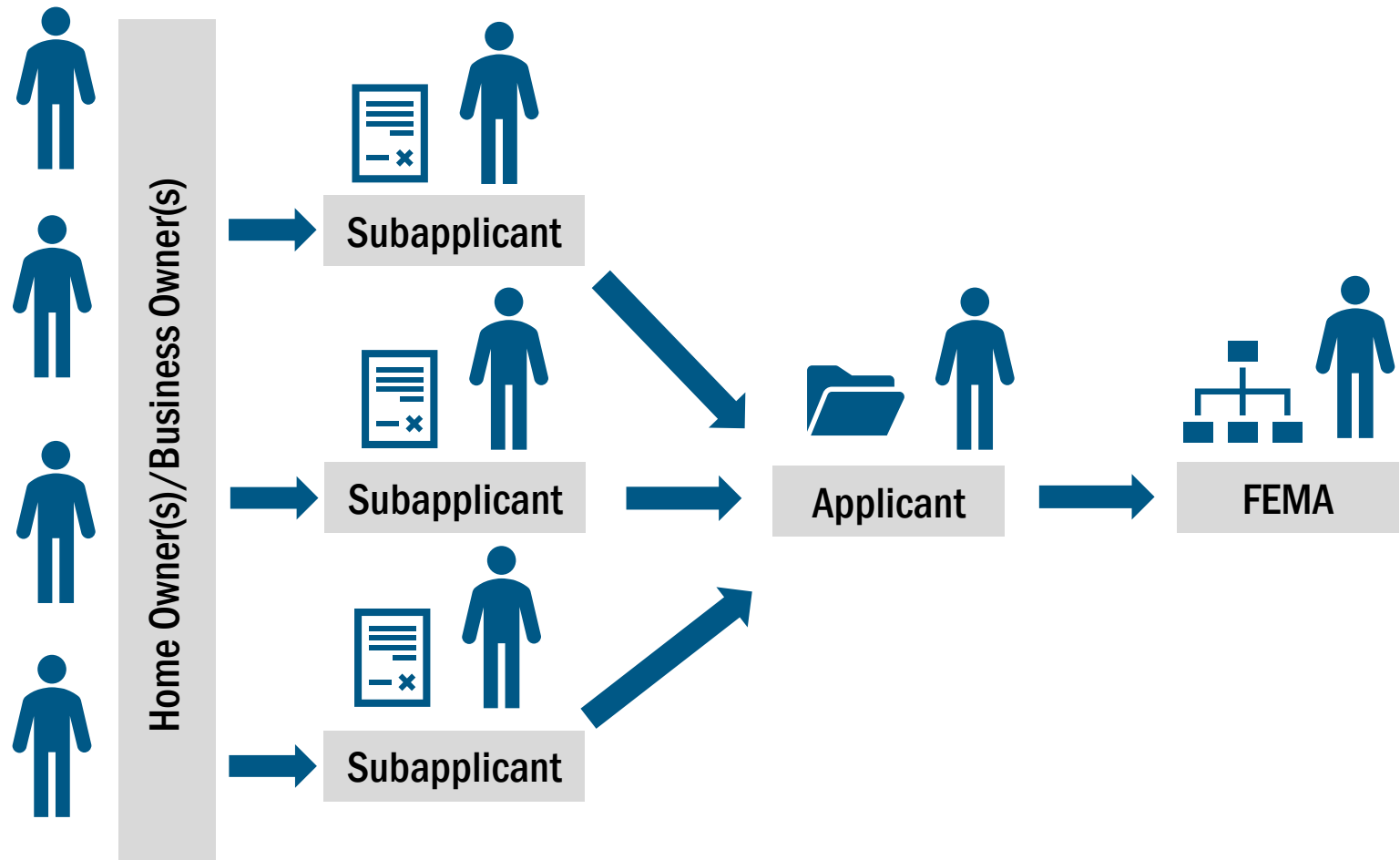**Check out FEMA's fact sheet on PRA here , also available at the Resource Library!**

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Simplified HMA Application Process

Home Owner(s)/Business Owner(s)

Subapplicant → Subapplicant → Subapplicant → Applicant → FEMA

Notice of Funding Opportunity (NOFO)

- Draft NOFOs each Fiscal Year

    - Department of Homeland Security template text

    - Agency's priorities for funding

    - Application timeline

- Finalize NOFOs upon receipt of Appropriations for review and approval

- Post on www.Grants.gov

Building Resilient Infrastructure and Communities (BRIC)

- BRIC was enacted as a part of the Disaster Recovery Reform Act of 2018 (DRRA).
  - BRIC is now active, replacing the existing PDM program.

- Annual funding may be up to 6 percent of the total annual federal post-disaster grant funding; ensures yearly steady stream of grant funding

- Through BRIC, FEMA will continue to invest in a variety of mitigation activities with an added focus on infrastructure projects and community lifelines.

- Additional information can be found at www.fema.gov/bric

LHMP and HMA Eligibility

HMGP
HAZARD MITIGATION GRANT PROGRAM

BRIC
BUILDING RESILIENT INFRASTRUCTURE AND COMMUNITIES

FMA
FLOOD MITIGATION ASSISTANCE

FEMA approved LHMP required at time of funding obligation

FEMA approved LHMP required at time of application and funding obligation

FEMA approved LHMP required at time of application and funding obligation

Rehabilitation of High Hazard Potential Dams (HHPD)

- Grant program under FEMA's National Dam Safety Program

- Provides technical, planning, design, and construction assistance for rehabilitation of eligible HHPDs

- HHPD classification is for any dam whose failure or mis-operation will cause loss of human life and significant property destruction

- FY 2019, $10 million FY 2020, $10 million, and FY 2021, $12 million made available through HHPD Grant Program,

Rehabilitation of High Hazard Potential Dams (HHPD) Grant Program

LEARN MORE ABOUT THE HHPD GRANT PROGRAM >>

HHPD Planning Requirements

The <u>FY 2021 HHPD Grant Program Notice of Funding Opportunity</u> (NOFO) introduces:

Subrecipients must demonstrate that the tribal or local government with jurisdiction over the area in which the dam is located has a FEMA-approved hazard mitigation plan that includes all dam risks.

Minimum Requirements

1. **Does the plan describe the incorporation of existing plans, studies, reports, and technical information for eligible high hazard potential dams?**

2. **Does the plan address eligible high hazard potential dams in the risk assessment?**

3. **Does the plan include mitigation goals to reduce long-term vulnerabilities from eligible high hazard potential dams?**

4. **Does the plan prioritize mitigation actions to reduce vulnerabilities from eligible high hazard potential dams?**

(Optional) HHPD Section on the Region 9 Local Plan Review Tool

ELEMENT E. PLAN ADOPTION			
E1. Does the plan include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval? (Requirement §201.6(c)(5))			
E2. For multi-jurisdictional plans, has each jurisdiction requesting approval of the plan documented formal plan adoption? (Requirement §201.6(c)(5))			
ELEMENT E: REQUIRED REVISIONS			
OPTIONAL: HIGH HAZARD POTENTIAL DAM RISKS (Applicable to jurisdictions interested in becoming sub applicants to FEMA's Rehabilitation of High Hazard Potential Dams (HHPD) Grant Program only)			
HHPD1. Did Element A4 (planning process) describe the incorporation of existing plans, studies, reports, and technical information for high hazard potential dams?			
HHPD2. Did Element B3 (risk assessment) address HHPDs?			
HHPD3. Did Element C3 (mitigation goals) include mitigation goals to reduce long-term vulnerabilities from high hazard potential dams that pose an unacceptable risk to the public?			
HHPD4. Did Element C4-C5 (mitigation actions) address HHPDs prioritize mitigation actions to reduce vulnerabilities from high hazard potential dams that pose an unacceptable risk to the public?			
REQUIRED REVISIONS			
ELEMENT F. ADDITIONAL STATE REQUIREMENTS (Optional for State Reviewers only; not to be completed by FEMA)			
F1.			
F2.			
ELEMENT F: REQUIRED REVISIONS			

- Jurisdictions that intend to apply to the HHPD should fill out this section and request FEMA review

- Review results will NOT impact the approval status of the plan since this element is optional

- Jurisdictions can make amendments to their LHMP ANYTIME to meet HHPD

Other FEMA Resources

- Public Assistance (PA) Program Section 406 Mitigation

- Emergency Management Performance Grant (EMPG)

- Increased Cost of Compliance (ICC) under the National Flood Insurance Program (NFIP)

Resilient St. Vrain Nature-Based Flood Protection (Longmont, CO)

American Public Works Association – 2018 Sustainability Award for its "efficient delivery of infrastructure in an environmentally and socially responsible way," that achieves multiple co-benefits for the natural environment and surrounding community.

Addressed Hazards

PRIMARY HAZARD
Inland Flooding

Winter Storms

Community Lifelines
Hover over the Primary Lifeline to learn more.

PRIMARY LIFELINE

Safety & Security   Food, Water, Sheltering   Health & Medical   Transportation

$ Cost
Total Project Cost
$136 million

Hazard Mitigation Assistance
Mitigation Action Portfolio
FEMA

Funding Sources

Federal Funding
FEMA Hazard Mitigation Grant Program (HMGP)
Federal Highway Administration (FHWA)
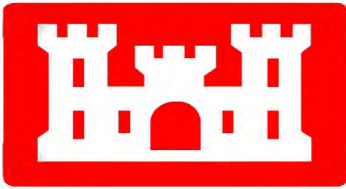Community Development Block Grant-Disaster Recovery (CDBG-DR)

Non-Federal Funding
City of Longmont Storm Drainage Bonds
Boulder County
State of CO
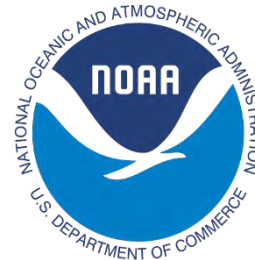Great Outdoors Colorado (GOCO)

Partnerships
City of Longmont
Boulder County
State of Colorado
FEMA
U.S. Army Corps of Engineers
FHWA
HUD CDBG-DR
GOCO

LONGMONT, COLORADO
MARCH 2017

RESILIENT ST. VRAIN PROJECT
CITY REACH 2B - POST CONSTRUCTION MATURE VEGETATION CONDITIONS
SOUTH PRATT PARKWAY to THE BNSF RAILROAD BRIDGE

FEMA

Cal OES
GOVERNOR'S OFFICE
OF EMERGENCY SERVICES

Mitigation Funding Opportunities are Widespread

Questions?

Featured Presentation- Plan Integration in California

Erik de Kok, Program Manager, Planning & Community Development, California Office of Planning and Research

Contacts

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Module Evaluation

Visit the Resource Library at: [Hazard Mitigation Local Hazard Mitigation Program](#)