

County of Maui

Hazard Mitigation Steering Committee Meeting

December 10, 2019

JAMIE CAPLAN CONSULTING LLC

Emergency Management Services

Agenda

Introductions

Plan Development Process

Outreach and Engagement Plan

Stakeholder and Public Engagement

Next Steps

Introductions

Name and Position

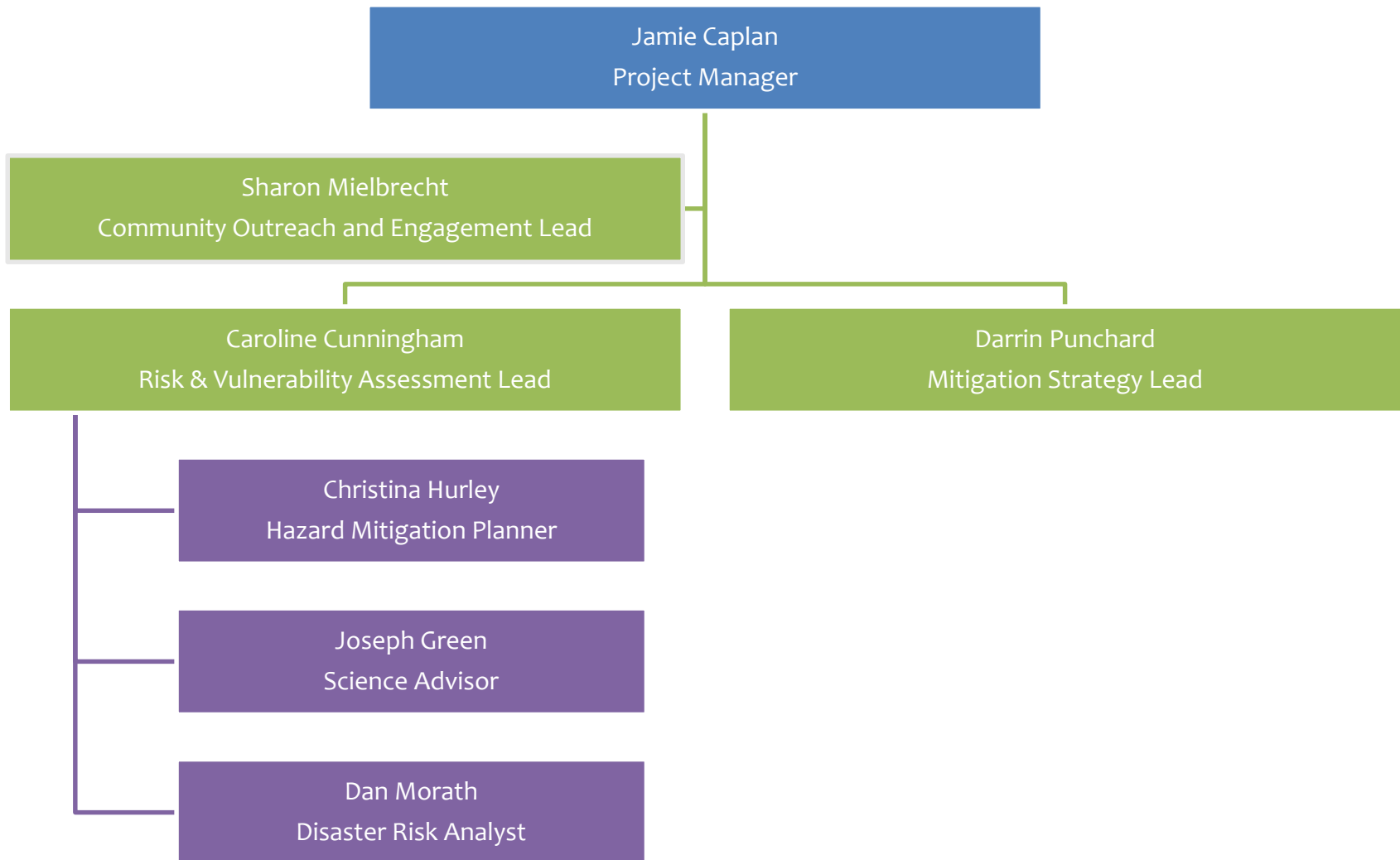
Did you participate in the 2015 Hazard Mitigation Plan?

- What was your role?

What do you value most in Maui County?

- Is this at risk to natural hazards and/or climate change? How?

Consulting Team

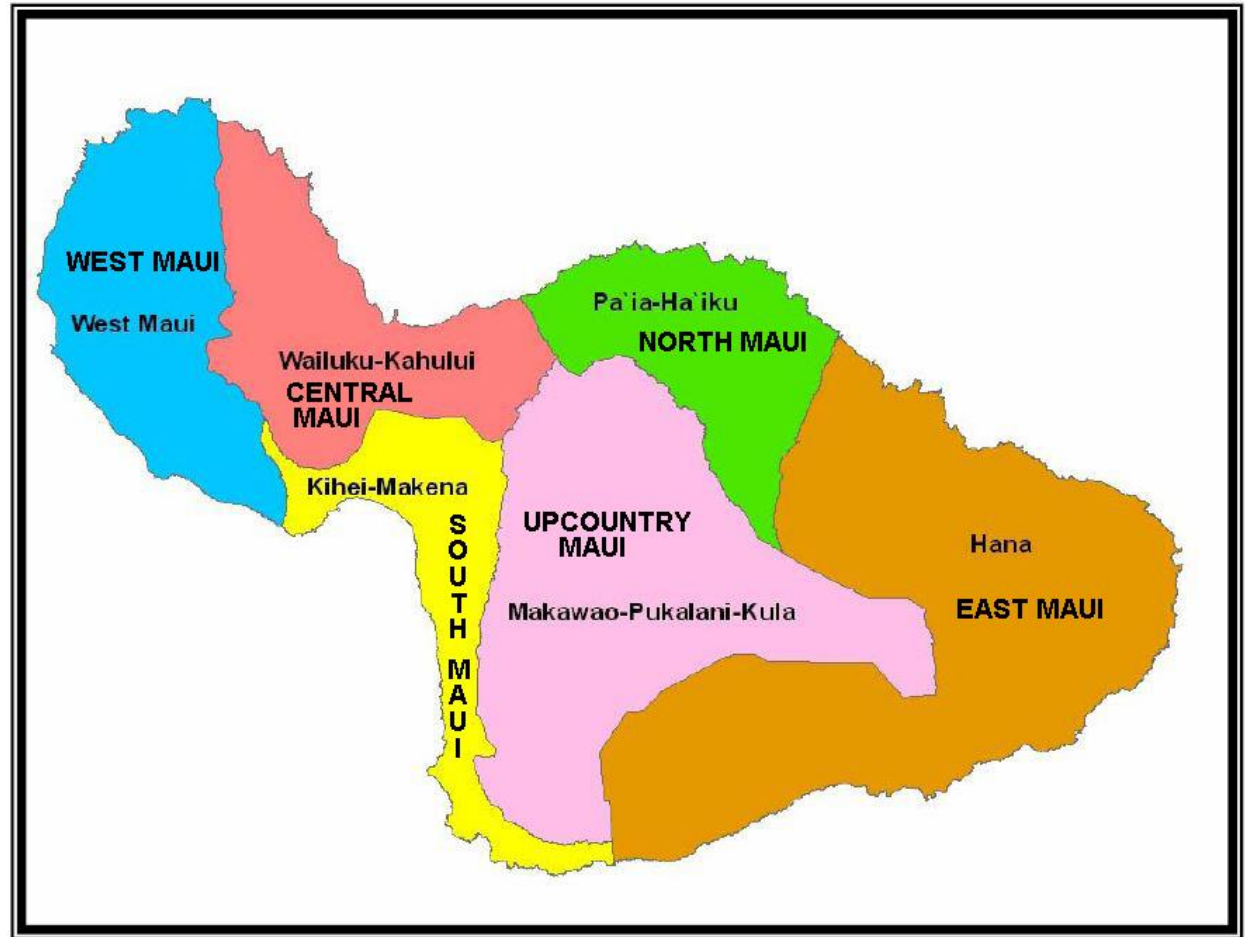


Plan Development Process

Purpose: FEMA Approval of Updated Mitigation Plan, includes updates to the risk assessment and the mitigation strategy. Maintenance of CRS status.

8 Planning Districts

1. Molokai
2. Lanai
3. West Maui
4. Central Maui
5. North Maui
6. South Maui
7. Upcountry Maui
8. East Maui



MAUI ISLAND'S SIX COMMUNITY PLAN DISTRICTS

Community Driven - Project Approach

Task 1. Planning Process

**November 2019 –
July 2020**

Task 2. Hazard Analysis & Risk Assessment

**November 2019 –
April 2020**

Task 3. Mitigation Strategy

**November 2019 –
June 2020**

**Task 4. Plan Review, Evaluation, &
Implementation**

July 2020

Task 5. Plan Approval and Adoption

**July 2020 – October
2020**

Task 1 Planning Process

Steering Committee Meetings, Tours and Stakeholder Meetings

1. Today!
2. **February 4, 2020**
3. April 2020
4. June 2020

Public Meetings

1. February 2020
2. June 2020



1.1 Project Initiation and Kick-off Meeting



1.2 Steering Committee Meetings



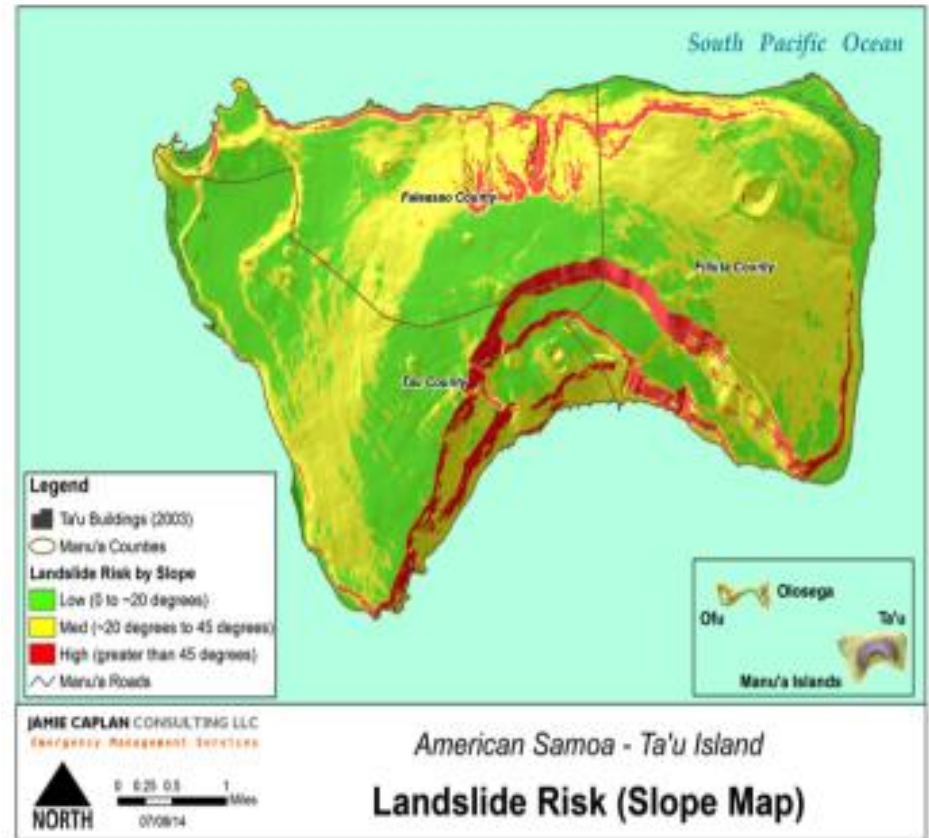
1.3 Public and Stakeholder Engagement



1.4 Draft Plan and Document the Planning Process

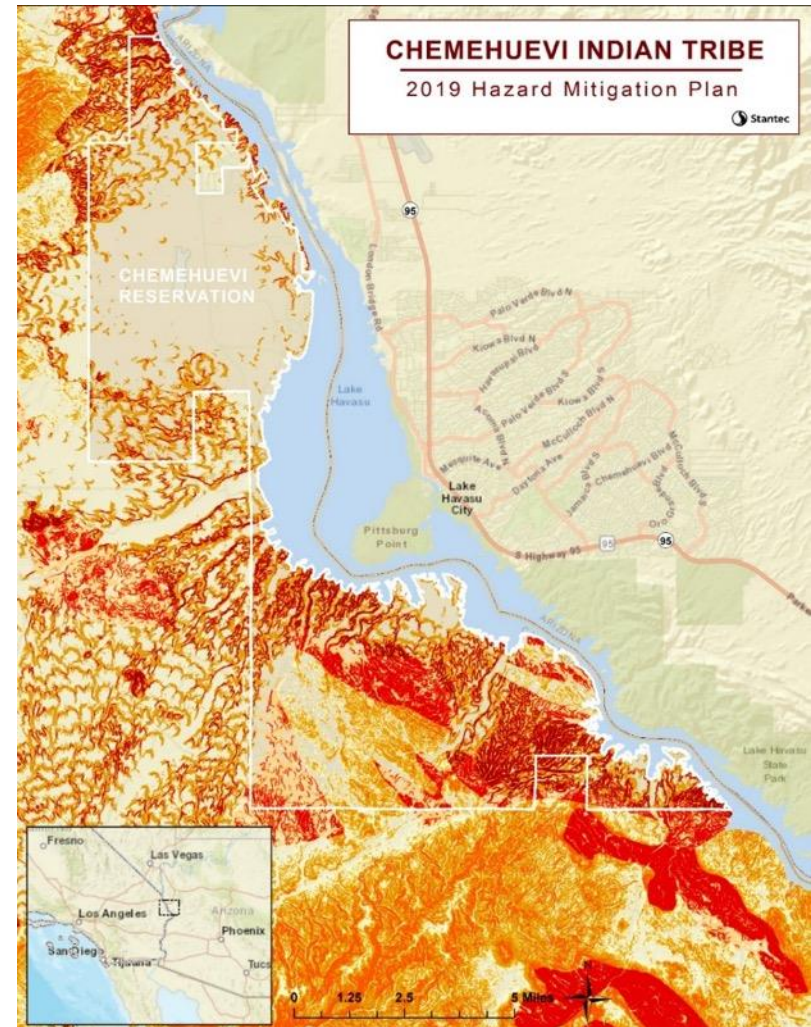
Task 2 Hazard Analysis and Risk Assessment

- 2.1 Review Hazards
- 2.2 Update Hazard Profiles
- 2.3 Assess Vulnerability and Impacts
- 2.4 Develop Vulnerability Summary



Identify Hazards

- Identify Hazards
 - Natural hazards
 - Reference existing plans
 - Review with the Steering Committee



Hazard Identification

2015 Maui County Hazards	Proposed 2019 Maui County Hazards
Coastal erosion	Coastal erosion
Dam and reservoir failure	Dam and reservoir failure
Drought	Drought
Earthquake	Earthquake
Flood	Inland Flood (riverine)
High surf	Coastal Flooding (coastal, high surf, sea level rise)
High wind storm	High wind storm
Landslide, debris flow, and rockfall	Landslide, debris flow, and rockfall
Tropical cyclone	Hurricane
Tsunami	Tsunami
Volcanic hazards (Lava, VOG)	Volcanic hazards (Lava, VOG)
Wildfire	Wildfire
Climate Change (all hazards)	Climate Change (all hazards)
	Hazardous materials incident
	Health risks
	Extreme heat and Aquifers

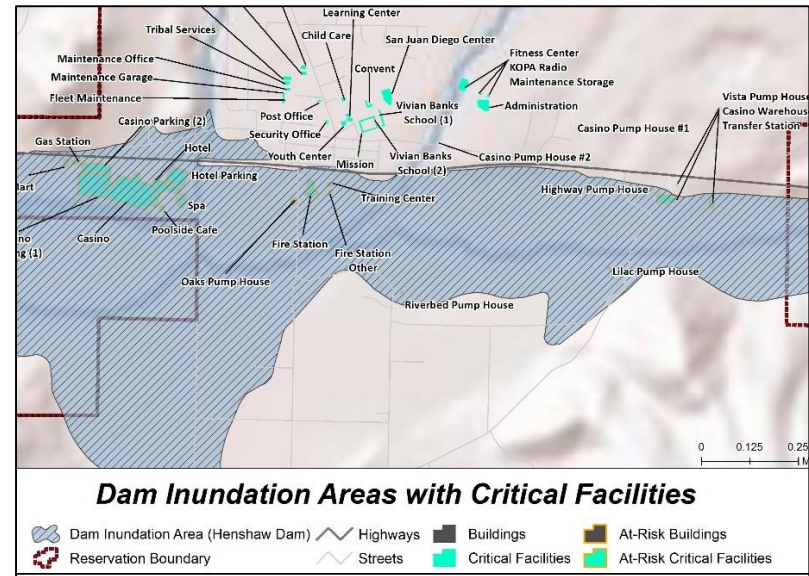
Data Sharing

- Update Hazard Data
 - Local, State, National datasets
- Update Buildings
 - Structure Specific analysis
- Critical Infrastructure Identification
 - Update existing list
 - Consider cultural and sacred sites



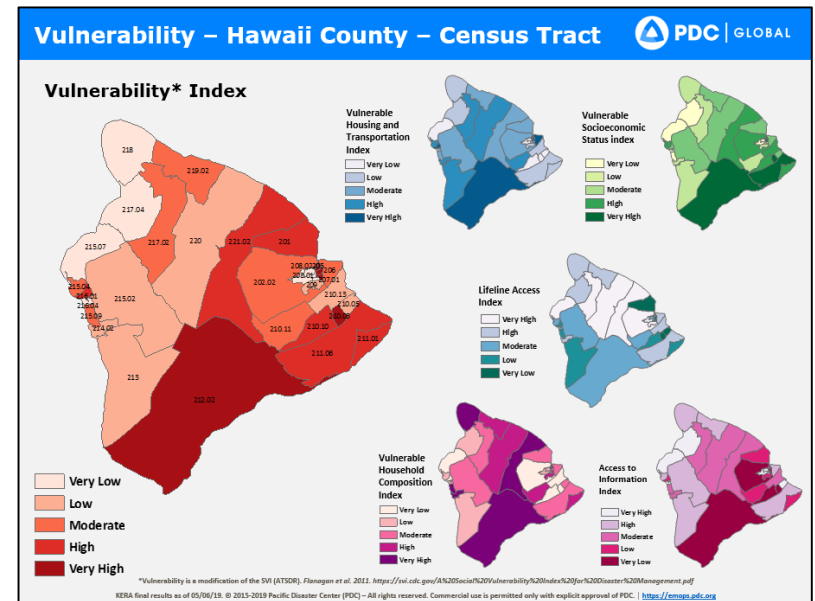
Develop Hazard Profile Updates

- Detailed profiles for all natural hazards
 - Hazard description
 - Historical occurrences
 - Known hazard boundaries
 - Severity
 - Probability
 - CRS requirements



Assess Vulnerability

- At Risk Assets
 - Number
 - Value of potential losses
- Development Trends and Land Use
- Climate Change Considerations
- Socio-economic Vulnerability



Task 3 Mitigation Strategy

3.1 Update Capability Assessment

3.2 Update Mitigation Plan Goals

3.3 Analyze and Update Previous Mitigation Actions

3.4 Develop and Prioritize Mitigation Action Plan

Capability Assessment



Planning and Regulatory

Incorporate existing studies, plans, and reports

- Coastal Zone Management Plan
- Land Use Plans
- Resiliency Studies



Administrative and Technical

National Flood Insurance Program (NFIP) and Community Rating System (CRS) participation



Financial



Education and Outreach

2015 Goal Statements

1. Protect the life, health, safety
2. Develop and implement the Plan
3. Protect property, including critical facilities and infrastructure
4. Promote a sustainable economy
5. Promote the protection of natural, cultural and historical resources
6. Promote and increase public awareness

Analyze and Update Previous Mitigation Actions



[Maui County / Hazard Mitigation Plan Update](#)

Maui County Hazard Mitigation Plan Annual Progress Report

Reporting Period: January 1, 2018 - December 31, 2018

Background: Maui County developed a hazard mitigation plan to reduce risk from natural hazards by identifying resources, information, and strategies for risk reduction. The federal Disaster Mitigation Act of 2000 requires state and local governments to develop hazard mitigation plans as a condition for federal disaster grant assistance. To prepare the plan, Maui County organized resources, replacement risks from natural hazards, developed planning goals and objectives, reviewed mitigation alternatives, and developed an initiative action plan to address probable impacts from natural hazards. By completing this process, Maui County maintained compliance with the Disaster Mitigation Act, achieving eligibility for mitigation grant funding opportunities afforded under the Robert T. Stafford Act. The plan can be viewed on-line at:

<https://www.mauicounty.gov/DocumentCenter/View/100053>

This document is currently in the process of being updates for 2020. Expected completion is before August 2020.

Summary Overview of the Plan's Progress: The performance period for the Hazard Mitigation Plan became effective August, 2015, with the final approval of the plan by FEMA. The initial performance

Types of Mitigation Actions



Plans and Regulations



Structure and Infrastructure



Nature Based Solutions



Education and Outreach

Develop and Prioritize Mitigation Actions



Overall Strategy

Structural and non-structural
measures included
Climate adaptation
emphasized
Cost-benefit review
conducted



Community-based action plans

Realistic
Implementable
Prioritized

Mitigation Action Tracker

9	Implement priority projects from City's field inventory of culverts and bridges.	
Goal	1	
Action Description	Implement priority projects from the City's existing field inventory of culverts and bridges for increased flooding resiliency and storm-hardening, including re-sizing or replacement projects. Green infrastructure, low-impact design, and other nature-based solutions should be integrated with hard-infrastructure improvements to establish robust approaches in the face of natural hazards and climate-change scenarios, and that meet Massachusetts stream-crossing standards.	
High	Lead Department	Department of Public Services
	Partners	MassDOT
	Cost	Very High
	Possible Funding Sources	Small Bridge Program
	Hazards	Changes in Precipitation: Flooding, Drought, Landslide; Extreme Weather: Hurricanes/Tropical Storms, Severe Winter Storm/Nor'easter, Tornadoes, Severe Weather (strong winds/extreme precipitation)
	Type of Mitigation Project	Structural Projects
	Critical Facility Protection	No
	Community Components	Infrastructure
	Implementation Schedule	April 2019 - December 2024

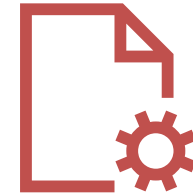
Task 4 Plan Review, Evaluation and Implementation



4.1 Develop Plan
Maintenance
Procedures



4.2 Develop
Procedures for
Continued Public
Involvement



4.3 Document
Plan Update
Changes

Task 5 Plan Approval and Adoption

5.1 Steering Committee and Public Review of Draft Plan (~July 2020)

5.2 Review by Hawaii Emergency Management Agency

5.3 Review and Approval by Federal Emergency Management Agency

5.4 County Adoption (~October 2020)

Outreach and Engagement Plan

Goal: To generate interest and involvement in the hazard mitigation planning process.

Objectives

- Promote dialogue across sectors, disciplines and geography to identify issues, challenges, strengths and values.
- Build lasting partnerships.
- Utilize a variety of tools and engagement opportunities.

Engagement Strategies



Mitigation
Message



Web Presence



Survey



Fact Sheet



Draft Plan Review



News & Social
Media

Engaging Target Groups / Audiences

- Stakeholder Meetings / Interviews
- Public Meetings
- Tours
- Steering Committee Meetings

Steering Committee Roles



Help guide and inform plan development.



Provide supporting data or information.



Assist in the identification and prioritization of mitigation actions.



Review and comment on draft plan deliverables.



Participate in public outreach/stakeholder engagement.



Approve final draft plan prior to submission to FEMA.

Discussion

- Steering Committee Representatives
 - Adequate representation?
- Public Meetings
 - Locations?
 - Local liaisons?

Next Steps

Stakeholder Interviews
Data/Information Sharing
February 4, 2020 Next Meeting

Thank You

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