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## SECTION 2. PLANNING PROCESS

This section outlines the process the State of Hawai'i followed to update the State Hazard Mitigation Plan (SHMP) and demonstrates the State's ongoing commitment to ensuring a robust planning process. The following sections describe how the 2023 SHMP Update was prepared; which agencies and stakeholders participated in the planning process; and how each section was reviewed, analyzed, and revised.

### 2.1 DESCRIPTION OF THE PLANNING PROCESS

**Element S1 and 44 CFR § 201.4(b) and 201.4(c)(1):** The State plan must include a description of the process used to develop the plan, including how it was prepared, the schedule or timeframe, specific milestones and activities, agencies and stakeholders involved, and if the process was integrated to the maximum extent possible with other State planning efforts.

The 2023 SHMP Update was led by HI-EMA and developed and updated in accordance with the planning requirement outlined in Section 404 of the Robert T. Stafford Act as amended by the Disaster Mitigation Act of 2000 and in accordance with Chapter 44 of the Code of Federal Regulations (CFR), Sections 201.4(b) and 201.4(c) of the Standard State Hazard Mitigation Plan criteria. The State of Hawai'i HMP will continue to serve as a guide for State decision-makers to allocate resources in the effort to reduce the effects of natural hazards on people and infrastructure.

The State of Hawai'i Multi-Hazard Mitigation Plan was first approved in 2004 and previously updated in 2007, 2010, 2013, and 2018. The monitoring, evaluation, and update process outlined in the 2018 SHMP was well-intended; however, it was not fully actualized. HI-EMA recognizes that the Mitigation Section is limited in staffing capacity as discussed further in Section 5 (Capability Assessment) and that the Hawai'i State Hazard Mitigation Forum (Forum) involvement was limited due to the COVID-19 pandemic. Additionally, the frequency of hazard events combined with the State's necessity to redirect attention to disaster response and recovery diverted attention and resources away from the outlined 2018 SHMP maintenance process. Section 7 (Plan Maintenance) further details the challenges and successes of maintaining the 2018 SHMP.

In mid-2019, the State applied for a FEMA 2019 Pre-Disaster Mitigation (PDM) grant to update the 2018 SHMP. The period of performance start date was August 4, 2020. In 2020, HI-EMA appointed a new State Hazard Mitigation Officer (SHMO) to lead the Mitigation Section. In July 2022, the SHMO was replaced by an acting SHMO who began leading the Mitigation Section. The acting SHMO's vision for the 2023 SHMP Update is to streamline the plan resulting in a practical and implementable document, coordinate the SHMP with other HI-EMA planning documents, increase collaboration across a broader range of stakeholders to maximize planning efforts, and inspire continued collaboration and implementation beyond the 2023 SHMP Update. In July 2022, the State secured planning consulting services to facilitate with 2023 SHMP Update with a schedule to submit the updated plan to FEMA Region IX during the summer of 2023.

The HI-EMA Mitigation Section, under leadership of the acting SHMO, led the 2023 SHMP Update. The HI-EMA Mitigation Section met weekly with the chair of the State Hazard Mitigation Forum and the planning consultant throughout the planning process. HI-EMA and the planning consultant met and/or communicated regularly with members of the Forum (individually and as a whole) as well as key stakeholders and subject matter experts (SME) to identify hazards, assess risks, update capabilities, assist in updating and developing new mitigation goals and strategies, and provide continuity through the process. The role of the Forum, stakeholders, SMEs, and the public are discussed later in this section. FEMA Region IX was also consulted throughout the planning process and invited to concurrent SHMP and Forum plan update meetings.





Due to the State’s unique geography, convening in-person meetings on a regular basis proves challenging, both in time and resources. Therefore, in addition to the in-person meetings held, there was a great deal of communication between HI-EMA, Forum members, SMEs, and stakeholders through virtual meetings, email, and individual meetings. Early in the planning process, Forum members were provided a roadmap outlining projected meeting dates and major milestones.

Table 2.1-1 summarizes the key milestone meetings held during the 2023 SHMP Update planning process with supporting documentation in Appendix A (Planning Process Documentation). Table 2.1-2 lists the SMEs identified and consulted in the 2023 SHMP Update planning process. Following Table 2.1-2 is a summary of how key elements of the planning process were conducted. These summaries do not reflect all planning activities conducted in association with the 2023 SHMP Update but rather the highlights of the process.

**Table 2.1-1. Key 2023 SHMP Update Planning Meetings**

Date	Meeting and Planning Milestone
<b>June 6, 2022</b>	HI-EMA/Mitigation Plan Consultant Introductory Meeting <ul style="list-style-type: none"> <li>• Forum participation overview</li> <li>• Schedule project kick-off meeting</li> </ul>
<b>July 15, 2022</b>	HI-EMA Project Kick-Off with Mitigation Plan Consultant <ul style="list-style-type: none"> <li>• Review of 2018 SHMP and new FEMA planning policy</li> <li>• Organization of the planning team</li> <li>• Outreach strategy</li> <li>• Changes and enhancements to updating the mitigation strategy</li> </ul>
<b>July 29, 2022</b>	FEMA Mitigation Program Annual Consultation
<b>August 18, 2022</b>	State Hazard Mitigation Planning Meeting <ul style="list-style-type: none"> <li>• Hazards of concern determined</li> </ul>
<b>August and September 2022</b>	Meetings with State Agencies, Stakeholders, and SMEs <ul style="list-style-type: none"> <li>• Data collection (events/losses, spatial data)</li> <li>• Building codes and standards overview</li> <li>• Defined social vulnerability for Hawai'i</li> </ul>
<b>September 2022</b>	StoryMap developed for public outreach
<b>September 2022–February 2023</b>	State agency reviews and updates to the mitigation strategy
<b>October 5, 2022</b>	State Hazard Mitigation Planning Meeting <ul style="list-style-type: none"> <li>• Review goals</li> <li>• Develop objectives</li> </ul>
<b>October 12, 2022</b>	Special State Hazard Mitigation Forum Meeting <ul style="list-style-type: none"> <li>• New FEMA Planning Policy</li> <li>• Hazards of concern</li> <li>• Forum role and involvement</li> <li>• Subject matter expert and focus group outreach</li> <li>• Goals and objectives exercise</li> <li>• Mitigation strategy overview</li> </ul>
<b>November 30, 2022</b>	State Hazard Mitigation Forum Meeting <ul style="list-style-type: none"> <li>• Define Community Lifelines</li> <li>• Risk assessment               <ul style="list-style-type: none"> <li>○ Analysis methodology and new data</li> <li>○ Review scenarios</li> <li>○ Present vulnerability results</li> </ul> </li> </ul>





Date	Meeting and Planning Milestone
December 20, 2022	Virtual Statewide Public Meeting <ul style="list-style-type: none"> <li>• Public hazard awareness survey released</li> <li>• Hazard mitigation plan overview</li> <li>• Mitigation success stories</li> <li>• Social vulnerability requirements and map overview</li> <li>• Risk assessment results</li> </ul>
December 28, 2022	State Hazard Mitigation Planning Meeting <ul style="list-style-type: none"> <li>• Capability assessment working session               <ul style="list-style-type: none"> <li>○ Review and update 2018 SHMP capabilities</li> <li>○ Add new capabilities</li> </ul> </li> </ul>
January 11, 2023	State Hazard Mitigation Planning Meeting <ul style="list-style-type: none"> <li>• Mitigation strategy update progress</li> <li>• Hazard ranking review</li> </ul>
January–February 2023	Draft 2023 SHMP Update hazard sections to lead subject matter expert reviewers
February 7, 2023	Capabilities and Mitigation Action Workshop <ul style="list-style-type: none"> <li>• Capabilities interactive exercise</li> <li>• SMEs share best practices in mitigation</li> <li>• Mitigation action development</li> </ul>
February–March 2023	State agencies, stakeholders, and SMEs update capabilities
February 8–10, 2023	Mitigation Action Item Development Meetings with Individual Sectors <ul style="list-style-type: none"> <li>• Housing</li> <li>• Health and Social Services</li> <li>• Infrastructure</li> <li>• Land Use and Development</li> <li>• Economic Development</li> <li>• Emergency Management</li> <li>• Natural and Cultural Resources</li> </ul>
March 1, 2023	State Hazard Mitigation Planning Meeting <ul style="list-style-type: none"> <li>• Plan maintenance</li> <li>• Funding prioritization</li> </ul>
March–April 2023	Draft 2023 SHMP Update sections to lead reviewers
TBD	Draft 2023 SHMP Update posted on the project website and StoryMap for Forum and public review and comment
April 5, 2023	City and County of Honolulu In-person Public Meeting <ul style="list-style-type: none"> <li>• Purpose of the Hawai'i State Hazard Mitigation Plan</li> <li>• Draft Plan Overview</li> <li>• Mitigation Strategies Input</li> <li>• Coordination with Other Planning Efforts</li> </ul>
April 17 and 18, 2023	County of Hawai'i In-person Public Meetings in Hilo and Kona <ul style="list-style-type: none"> <li>• Purpose of the Hawai'i State Hazard Mitigation Plan</li> <li>• Draft Plan Overview</li> <li>• Mitigation Strategies Input</li> <li>• Coordination with Other Planning Efforts</li> </ul>





Date	Meeting and Planning Milestone
April 19 and 20, 2023	County of Maui In-person Public Meetings on Moloka'i and Maui Island <ul style="list-style-type: none"> <li>• Purpose of the Hawai'i State Hazard Mitigation Plan</li> <li>• Draft Plan Overview</li> <li>• Mitigation Strategies Input</li> <li>• Coordination with Other Planning Efforts</li> </ul>
April 24, 2023	County of Kaua'i In-person Public Meeting <ul style="list-style-type: none"> <li>• Purpose of the Hawai'i State Hazard Mitigation Plan</li> <li>• Draft Plan Overview</li> <li>• Mitigation Strategies Input</li> <li>• Coordination with Other Planning Efforts</li> </ul>
Placeholder	Public review
May X, 2023	Statewide Hybrid Public Meeting in Kapolei <ul style="list-style-type: none"> <li>• Purpose of the Hawai'i State Hazard Mitigation Plan</li> <li>• Draft Plan Overview</li> <li>• Mitigation Strategies Input</li> <li>• Coordination with Other Planning Efforts</li> </ul>
TBD	Submit to FEMA for review

Table 2.1-2. Agency and Stakeholder Coordination

Agency	Name	Area of Expertise
<b>Emergency Management</b>		
Maui County Emergency Management Agency	Gina Albanese	Hazard mitigation, emergency management
Maui County Emergency Management Agency	Herman Andaya	Hazard mitigation, emergency management
Hawai'i Office of Homeland Security	Jimmie Collins	Critical infrastructure security and resilience, cybersecurity, and emerging threats
Hawai'i State Department of Health, State Toxicologist	Diana Felton	Toxicology, hazardous materials, human health, chemical contamination
Kaua'i Emergency Management Agency	David Kennard	Hazard mitigation, resiliency, communication
Honolulu Board of Water Supply	Ernie Lau	Watershed management, water quality
Hawai'i Emergency Management Agency	David Lopez	Emergency management
County of Hawai'i Civil Defense Agency	Talmadge Magno	Disaster recovery, emergency management
County of Hawai'i Civil Defense Agency	Barry Periatt	Disaster recovery, emergency management
Kaua'i Emergency Management Agency	Chelsie Sakai	Hazard mitigation, emergency management
Honolulu Department of Emergency Management	Hirokazu Toiya	Emergency management
Kaua'i Emergency Management Agency	Elton Ushiro	Disaster recovery, emergency management
Hawai'i Emergency Management Agency	Carmela Vigue	Emergency Management
Honolulu Department of Emergency Management	Jennifer Walter	Hazard mitigation, emergency management
<b>Economic Development</b>		
Department of Business, Economic Development & Tourism	Lauren Primiano Amber Ternus	Economic development
DAGS Risk Management Office	Tracy Kitaoka Ann Sueoka	Economic development
<b>Land Use and Development</b>		
State Office of Planning and Sustainable Development	Danielle Bass	Sustainability planning, policy development, urban and regional planning, Hawai'i legislature





Agency	Name	Area of Expertise
County of Maui Department of Planning	James Buika	Coastal planning, shoreline setbacks, land use policy
Martin, Chock & Carden Structural Engineers; State Building Code Council	Lyle Carden	Building codes and standards
Hawai'i Planning Department	Douglas Le	Disaster recovery, community planning
Hawai'i Planning Department	Bethany Morrison	Long-range planning, shoreline setbacks, community resiliency
Office of Planning and Sustainable Development	Ann Ogata-Deal	Planning, land use policy
Hawai'i Planning Department	April Surprenant	Long-range planning, recovery, resilience, and sustainable planning
County of Hawai'i Public Works Building Division; Hawai'i State Energy Office, State Building Code Council	Neal Tanaka	Building codes and standards
State of Hawai'i Office of Planning and Sustainable Development, Coastal Zone Management	Lisa Webster	GIS, Coastal Zone Management, Ocean Resources Management Plan, urban and regional planning
Hawai'i State Energy Office, State Building Code Council	Howard Wiig	Energy resiliency, building codes
<b>Housing</b>		
Department of Human Services	Joe Campos	Housing
<b>Health and Social Services</b>		
Hawai'i State Department of Health, State Toxicologist	Diana Felton	Toxicology, hazardous materials, human health, chemical contamination
Hawai'i State Department of Health, Disease Investigations Branch	Caroline Pratt	Infectious diseases, health risks
<b>Infrastructure</b>		
Hawai'i State Energy Office	Jonathan Chin	Energy efficiency, energy systems planning, energy analysis
City and County of Honolulu, Office of Climate Change, Sustainability and Resiliency	Sarah Harris	Hazard mitigation and long-term disaster recovery
State of Hawai'i Department of Land and Natural Resources, Engineering Division	Edwin Matsuda	Dam safety, flood control
Honolulu Board of Water Supply	Ernie Lau	Watershed management, water quality
Kaua'i Public Works	Michael Moule	Civil and transportation engineering codes and standards
Honolulu Board of Water Supply	Raelynn Nakabayahi	Critical infrastructure: water supply
State Department of Transportation, Highways Division	Genevieve Sullivan	Environmental policy, climate change, and resiliency initiatives for transportation planning
Kaua'i Utility Board	Jan TenBruggencate	Communications, outreach, scientific writing
State Department of Transportation, Airports Division	Herman Tuiolesega	Planning
Hawai'i State Energy Office, State Building Code Council	Howard Wiig	Energy resiliency, building codes
<b>Natural and Cultural Resources</b>		
County of Maui Department of Planning	James Buika	Coastal planning, shoreline setbacks, land use policy





Agency	Name	Area of Expertise
Department of Land and Natural Resources Aha Moku	Leimana DaMate	Traditional Hawaiian methodologies and knowledge of cultural and natural resource management
Office of Planning and Sustainable Development Coastal Zone Management	Justine Nihipali	Coastal zone management, land use policy
Maui Planning	Tara Owens	Coastal processes, hazards, and resilience; science and policy communication; community building
State of Hawai'i Department of Land and Natural Resources, Division of Forestry and Wildlife	Michael Walker	Forestry
State of Hawai'i Office of Planning and Sustainable Development, Coastal Zone Management	Lisa Webster	GIS, Coastal Zone Management, Ocean Resources Management Plan, urban and regional planning
Department of Land and Natural Resources Hawai'i State Historic Preservation Division	Michael Wahl	GIS, anthropology, cultural resources, water conservation, native food resources
<b>Climate Change</b>		
School of Ocean and Earth Science and Technology, University of Hawai'i	Chip Fletcher, PhD	Coastal processes, hazards, and resilience
University of Hawai'i Sea Grant Program; State DLNR, Office of Conservation and Coastal Lands	Bradley Romine, PhD	Coastal processes, hazards, and resilience
Maui Planning	Tara Owens	Coastal processes, hazards, and resilience; science and policy communication; community building
State of Hawai'i Office of Planning and Sustainable Development, Coastal Zone Management	Lisa Webster	GIS, Coastal Zone Management, Ocean Resources Management Plan, urban and regional planning
<b>Social Vulnerability</b>		
Hawai'i Tourism Authority	Jennifer Chun	
Department of Hawaiian Home Lands	Niniau Kawaihae	
Department of Business, Economic Development & Tourism	Lauren Primiano	Economic development planning
Hawai'i State Department of Health, State Toxicologist	Diana Felton	Toxicology, hazardous materials, human health, chemical contamination
Department of Business, Economic Development & Tourism Broadband Strategy Officer	Burt Lum	Economic development planning
Hawai'i Interagency Council on Homelessness	Scott Morishige	
	Dayevin Bunao	
Lead for America	Alexis Ching	Community Building
<b>Hazards of Concern</b>		
School of Ocean and Earth Science and Technology, University of Hawai'i	Chip Fletcher, PhD	Climate Change and Sea Level Rise
State of Hawai'i Department of Land and Natural Resources, Engineering Division	Edwin Matsuda	Infrastructure Failure (Dam Failure)
Drought and Water Conservation Coordinator Hawai'i Department of Land and Natural Resources	Neal Fujii	Drought
University of Hawai'i, East-West Center	Ryan Longman	Climate, water resources, drought
United States Geological Survey, Hawaiian Volcano Observatory	Paul Okubo, PhD	Earthquake





Agency	Name	Area of Expertise
State of Hawai'i Department of Land and Natural Resources, Engineering Division; National Flood Insurance Program Coordinator	Carol Tyau-Beam	Flood
State of Hawai'i, Department of Land and Natural Resources, Engineering Division	Jizella San Andres	Flood
State of Hawai'i Department of Land and Natural Resources, Engineering Division	Edwin Matsuda	Flood
State of Hawai'i Office of Planning and Sustainable Development, Coastal Zone Management	Lisa Webster	Flood
Hawai'i County Floodplain Manager	Bryce Harada	Flood
Hawai'i State Department of Health, State Toxicologist	Diana Felton	Hazardous Materials
Hawai'i Institute of Geophysics and Planetology Center for the Study of Active Volcanoes	Donald Thomas, PhD	Hazardous Materials
Hawai'i State Department of Health	Judy Kern	Hazardous Materials
Hawai'i State Department of Health, State Toxicologist	Diana Felton	Health Risks
Hawai'i State Department of Health	Judy Kern	Health Risks
Hawai'i State Department of Health Office of Public Health Preparedness	Michelle Kwok	Health Risks
Hawai'i State Department of Health Office of Public Health Preparedness	Casey Nagatoshi	Health Risks
Hawai'i State Climatologist, University of Hawai'i	Pao-Shin Chu, PhD	Windstorm
Federal Emergency Management Agency	Victor DeJesus	Windstorm
National Oceanic and Atmospheric Administration/ National Weather Service Honolulu Forecast Office	Kevin Kodama	Windstorm
National Oceanic and Atmospheric Administration	Tina Stall	Windstorm
United State Geological Survey	Ken Hon	Landslide and Rockfall
Hawai'i State Climatologist, University of Hawai'i	Pao-Shin Chu, PhD	Hurricane
National Oceanic and Atmospheric Administration	Jon Bravender	Hurricane
University of Hawai'i	Gerald Fryer, PhD	Tsunami
University of Hawai'i	Ian Robertson	Tsunami
State of Hawai'i Office of Planning and Sustainable Development, Coastal Zone Management	Lisa Webster	Tsunami
United States Geological Survey	Jim Kauahikaua	Volcanic Hazards
United States Geological Survey	Frank Trusdell	Volcanic Hazards
United States Geological Survey	Patricia Maddau	Volcanic Hazards
Hawai'i Institute of Geophysics and Planetology Center for the Study of Active Volcanoes	Donald Thomas, PhD	Volcanic Hazards
State of Hawai'i Department of Land and Natural Resources, Division of Forestry and Wildlife	Dietra Myers Tremblay	Wildfire
State of Hawai'i Department of Land and Natural Resources, Division of Forestry and Wildlife	Michael Walker	Wildfire
<b>Building Codes</b>		
City and County of Honolulu, Office of Climate Change, Sustainability and Resiliency	Matthew Gonser	Building codes, climate change, resiliency





Agency	Name	Area of Expertise
County of Maui Department of Planning	James Buika	Coastal planning, shoreline setbacks, land use policy
Kaua'i Emergency Management Agency	David Kennard	Hazard mitigation, resiliency, communication
County of Hawai'i Public Works Building Division; Hawai'i State Energy Office, State Building Code Council	Neal Tanaka	Building codes and standards
Hawai'i State Energy Office, State Building Code Council	Howard Wiig	Energy resiliency, building codes
Martin, Chock & Carden Structural Engineers; State Building Code Council	Lyle Carden	Building codes and standards
State of Hawai'i, Department of Land and Natural Resources, Engineering Division	Carol Tyau-Beam	Flood, Infrastructure Failure (Dam Failure), National Flood Insurance Program Coordinator
Hawai'i Emergency Management Agency	Francis Kau	Emergency preparedness and response, individual assistance
County of Hawai'i Public Works Building Division	Kelly Wilson	Building codes and standards
City and County of Honolulu, Office of Climate Change, Sustainability and Resiliency	Sarah Harris	Hazard mitigation, long-term disaster recovery

Numerous individual meetings with federal and state agencies, academia, and stakeholders took place throughout the planning process to ensure a robust risk assessment, thorough collection and update of capabilities and mitigation progress, and a comprehensive updated mitigation strategy. There is an abundance of natural hazard SMEs who were willing to participate in the 2023 SHMP Update, including providing spatial data, guiding the vulnerability assessment methodology and reviewing the draft Section 4 (Risk Assessment) of this plan. These SMEs were consulted from the beginning stages of the planning process to ensure the best available spatial and natural hazard data and methodologies were utilized to assess the State of Hawaii's risk. Table 2.1-2 summarizes the SMEs identified and consulted.

- Hazard SMEs identified and outreach conducted for risk assessment
- Building codes and standards focus group
- Social vulnerability focus group
- State Hazard Mitigation Forum and invited additional stakeholders to SHMP update meetings

When the draft 2023 SHMP Update was completed in early 2023, the SHMO identified lead and supporting reviewers per plan section to ensure the first-round of review was conducted by SMEs. The lead reviewers are listed in Table 2.1-3. The draft 2023 SHMP Update sections were distributed to the lead reviewers via the project Microsoft Teams file sharing site. All comments received from the SMEs were considered by the HI-EMA Mitigation Section and incorporated into the draft, where appropriate.

**Table 2.1-3. Lead Draft 2023 SHMP Update Reviewers**

Section	Agency	Name
Section 1 – Introduction	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard
Section 2 – Planning Process	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard
Section 3 – State Profile	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard
Section 4.0 – Risk Assessment*	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard
Section 4.1 – Overview*	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard
Section 4.2 – Climate Change and Sea Level Rise	School of Ocean and Earth Science and Technology, University of Hawai'i	Chip Fletcher, PhD





Section	Agency	Name
Section 4.3 – Cyber Threat	State Office of Homeland Security	Jimmie Collins
Section 4.4 – Drought	Drought and Water Conservation Coordinator Hawai'i Department of Land and Natural Resources	Neal Fujii
Section 4.5– Earthquake	United States Geological Survey	Paul Okubo, PhD
Section 4.6 –Flood	State of Hawai'i, Department of Land and Natural Resources, Engineering Division	Carol Tyau-Beam
		Jizella San Andres
Section 4.7 – Hazardous Materials	Hawai'i State Department of Health	Diana Felton
	Hawai'i Institute of Geophysics and Planetology Center for the Study of Active Volcanoes	Donald Thomas, PhD
Section 4.8 – Health Risks	Hawai'i State Department of Health	Diana Felton
Section 4.9 – Hurricane	Hawai'i State Climatologist, University of Hawai'i	Pao-Shin Chu, PhD
Section 4.10 – Infrastructure Failure	State of Hawai'i Department of Land and Natural Resources, Engineering Division	Edwin Matsuda
Section 4.11 – Landslide and Rockfall	United State Geological Survey Hawaiian Volcano Observatory	Ken Hon
Section 4.12 – Terrorism	State Office of Homeland Security	Jimmie Collins
Section 4.13 – Tsunami	Geophysicist, Pacific Tsunami Warning Center	Gerard Fryer, PhD
Section 4.14 – Volcanic Hazards	United States Geological Survey	Jim Kauahikaua, PhD
	Hawai'i Institute of Geophysics and Planetology Center for the Study of Active Volcanoes	Donald Thomas, PhD
Section 4.15 – Wildfire	State of Hawai'i Department of Land and Natural Resources, Division of Forestry and Wildlife	Michael Walker
Section 4.16 – Windstorm	Hawai'i State Climatologist, University of Hawai'i	Pao-Shin Chu, PhD
Section 4.17 – Vulnerability Summary	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard
Section 5 – Capability Assessment**	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard
Section 6 – Mitigation Strategy**	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard
Section 7 – Plan Maintenance	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard
Appendices	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard
References	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard
Acronyms	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard
Executive Summary	County of Kaua'i and State Hazard Mitigation Forum Chair	David Kennard

**Notes:**

\* The risk assessment methodology was discussed with SMEs listed in Table 2.1-3 at the beginning stages of the 2023 SHMP Update.

\*\*The State Hazard Mitigation Forum members and State agencies were consulted throughout the planning process, both at in-person and virtual meetings and via email and telephone to update their agency-specific information and contribute to each of these sections.

On **MONTH DAY, 2023**, HI-EMA released the draft 2023 SHMP Update allowing the public to provide input on the draft plan prior to submittal to FEMA. The public comment period was open through **MONTH DAY, 2023**. The principal avenues for public comment on the draft plan were the StoryMap and HI-EMA website. In total, **XX** comments were received via the form posted on the websites. Additionally, public meetings were held to allow an opportunity to provide comment on the draft plan, ask questions, and discuss mitigation with the SHMO. These meetings were held on all the major islands.





## 2.2 COORDINATION AMONG AGENCIES

**Element S2, HHPD1, and 44 CFR § 201.4(b) and 201.4(c)(1):** The State plan must describe how the State coordinated with other agencies and stakeholders, including state and federal agencies. The plan must describe how stakeholders and agencies were involved in the process. At a minimum stakeholders from the following sectors should be involved: emergency management, economic development, land use and development, housing, health and social services, infrastructure, and natural and cultural resources.

One of HI-EMA’s priorities for the 2023 SHMP Update was to ensure increased outreach and collaboration among various sectors to ensure a comprehensive update. The following describes how other agencies and stakeholders were involved in the 2023 SHMP Update process and were provided the opportunity to provide input on the plan’s content.

### 2.2.1 STATE HAZARD MITIGATION FORUM

The former State Civil Defense established the Hawai’i State Hazard Mitigation Forum (Forum) in 1998 (bylaws in Appendix B). Forum members come from a broad spectrum of state and county agencies and the private sector. The Forum also includes ex officio representatives from all four county emergency management agencies, HI-EMA, and additional State agencies (Table 2.2-1). The primary functions of the Forum are:

1. Coordinate hazard mitigation activities in the State.
2. Recommend and prioritize project nominations for the Hazard Mitigation Grant Program (HMGP).
3. Conduct a statewide public awareness campaign.
4. Assist in obtaining funds for mitigation projects.
5. Develop a hazard mitigation strategy for the State.



#### Key Term

- **State Hazard Mitigation Forum**—The Hawai’i State Hazard Mitigation Forum serves in an advisory capacity relative to the incorporation of hazard mitigation in policy in Hawai’i.

*Table 2.2-1. State Hazard Mitigation Forum Members*

Agency	Name
<b>Members</b>	
Maui County Emergency Management Agency	Gina Albanese
State of Hawai’i Office of Planning and Sustainable Development	Danielle Bass
County of Maui Department of Planning	James Buika
Hawai’i State Energy Office	Jonathan Chin
Hawai’i State Climatologist, University of Hawai’i	Pao-Shin Chu, PhD
State of Hawai’i Office of Homeland Security	Jimmie Collins
Hawai’i State Department of Health, State Toxicologist	Diana Felton
City and County of Honolulu, Office of Climate Change, Sustainability and Resiliency	Sarah Harris
Kaua’i Emergency Management Agency	David Kennard (Chair)





Agency	Name
County of Hawai'i Planning Department, Long Range Planning Division	Bethany Morrison
County of Kaua'i Department of Public Works	Michael Moule
Honolulu Board of Water Supply	Raelynn Nakabayashi
University of Hawai'i	Tara Owens
County of Hawai'i Civil Defense Agency	Barry Periatt
State of Hawai'i Department of Transportation, Highways Division	Genevieve Sullivan
County of Hawai'i Planning Department	April Surprenant
Island Strategy LLC, Kaua'i Island Utility Cooperative	Jan TenBruggencate
Hawai'i State Department of Business, Economic Development and Tourism	Amber Ternus
State of Hawai'i Department of Land and Natural Resources, Division of Forestry and Wildlife	Michael Walker
State of Hawai'i Office of Planning and Sustainable Development, Coastal Zone Management	Lisa Webster
<b>Ex Officio Members</b>	
Maui County Emergency Management Agency, Administrator	Herman Andaya
Volunteer (former Hawai'i State Emergency Management Agency State Hazard Mitigation Officer)	Larry Kanda
Honolulu Board of Water Supply	Ernest Lau
County of Hawai'i Planning Department	Douglas Le
Hawai'i Emergency Management Agency	David Lopez
County of Hawai'i Civil Defense Agency	Talmadge Magno
State of Hawai'i Department of Land and Natural Resources, Engineering Division	Edwin Matsuda
State of Hawai'i Office of Planning and Sustainable Development, Coastal Zone Management	Justine Nihipali
Volunteer	Ann Ogata-Deal
Hawai'i Emergency Management Agency	Jennifer Robertson
Kaua'i Emergency Management Agency	Chelsie Sakai
City and County of Honolulu Department of Emergency Management	Hirokazu Toiya
State of Hawai'i Department of Land and Natural Resources, Engineering Division; National Flood Insurance Program Coordinator	Carol Tyau-Beam
Kaua'i Emergency Management Agency, Administrator	Elton Ushio
Hawai'i Emergency Management Agency	Carmela Vigue

Notes: The State Hazard Mitigation Forum members listed in this table are current as of March 2023

In the development of the 2023 SHMP Update, HI-EMA regularly engaged the Forum throughout the planning process. As described in Table 2.1-1, HI-EMA scheduled regular 2023 SHMP Update meetings from October 2022 to March 2023. These meeting dates coincided with regular Forum meetings and included one special session to facilitate participation from members. The Forum provided a variety of expertise to the planning process, including emergency management, natural hazards, land use planning, building codes, transportation, and infrastructure from both state and county perspectives. The Forum was included all aspects of the planning process and encouraged to provide data and information to support the update and review interim and draft plan deliverables as outlined further in this section.

## 2.2.2 STATE AGENCIES AND STAKEHOLDERS

The National Mitigation Framework emphasizes the valuable role of collaboration among sectors to ensure mitigation capabilities continually develop and that comprehensive mitigation includes strategies for all community systems. In addition to collaborating with the Forum, the HI-EMA Mitigation Section coordinated with additional federal and state agencies and stakeholders throughout the 2023 SHMP Update. The following sectors were engaged throughout the planning process and were provided opportunities to provide plan input: emergency management; economic development; land use and





development; housing; health and social services; infrastructure; natural and cultural resources; academia and SMEs; private and public sectors.

A summary of the various sectors engaged in the update process are summarized in Table 2.2-2 below, along with a brief description of their involvement. Note that Forum members and hazard-specific SMEs already captured in Tables 2.1-1 and 2.1-2 earlier are not included in the table below. Refer to Appendix A (Planning Process Documentation), which includes further details on coordination with other agencies and stakeholders (e.g., distribution of capability assessment tables, interactive exercises at Forum meetings, individual meetings to discuss and collect risk assessment data and methodology, etc.).

**Table 2.2-2. Sectors Engaged in the 2023 SHMP Update**

Agency	Involvement
<b>Emergency Management</b>	
<b>FEMA Region IX Pacific Area Office</b>	Invited to and attended Forum meetings to provide input on all aspects of the 2023 SHMP Update.
<b>FEMA Region IX</b>	Invited to and attended Forum meetings; participated in regular calls with the HI-EMA Mitigation Section regarding the 2023 SHMP Update progress.
<b>HI-EMA</b>	The Mitigation Section led the 2023 SHMP Update; additional sections and SMEs were invited to and attended Forum meetings as noted in the Forum member table (Table 2.2-1 above); invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies.
<b>City and County of Honolulu Office of Climate Change, Sustainability and Resiliency</b>	Invited to and participated in the Building Codes and Standards Focus Group; invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies.
<b>State of Hawai'i Office of Homeland Security</b>	Member of the Forum; invited to and attended Forum meetings to provide input on all aspects of the 2023 SHMP Update; subject matter expert for cyber and terrorism hazard sections.
<b>County Emergency Management Agencies</b>	Members of the Forum include county emergency management agency representatives; invited to and attended Forum meetings to provide input on all aspects of the 2023 SHMP Update.
<b>Economic Development</b>	
<b>Hawai'i State Department of Business, Economic Development and Tourism</b>	Invited to and participated in the Social Vulnerability Focus Group; invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies.
<b>State Department of Accounting and General Services - State of Hawai'i Risk Management Office</b>	Provided State building database for the risk assessment; invited to public meetings.
<b>Land Use and Development</b>	
<b>State of Hawai'i Office of Planning and Sustainable Development, Coastal Zone Management</b>	Member of the Forum; invited to and attended Forum meetings to provide input on all aspects of the 2023 SHMP Update; invited to and participated in the Social Vulnerability Focus Group.
<b>County Planning Departments</b>	Members of the Forum include county planning department representatives; invited to and attended Forum meetings to provide input on all aspects of the 2023 SHMP Update.
<b>Housing</b>	
<b>Department of Human Services</b>	Invited to participate in the Social Vulnerability Focus Group; invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies.





Agency	Involvement
<b>Health and Social Services</b>	
<b>Hawai'i State Department of Health</b>	Member of the Forum; invited to and attended Forum meetings to provide input on all aspects of the 2023 SHMP Update; SME review of the hazardous materials and health risks sections (Sections 4.7 and 4.8); contributed mitigation strategies.
<b>Infrastructure</b>	
<b>State Department of Transportation – Harbors Division</b>	Member of the Forum; invited to and attended Forum meetings to provide input on all aspects of the 2023 SHMP Update; invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies.
<b>State Department of Transportation – Highways Division</b>	Member of the Forum; invited to and attended Forum meetings to provide input on all aspects of the 2018 SHMP Update; invited to the Mitigation Workshop in February 2023 and invited to updated capabilities and submit mitigation strategies.
<b>State Department of Land and Natural Resources, Engineering Division</b>	Ex officio member of the Forum; invited to and attended Forum meetings to provide input on all aspects of the 2018 SHMP Update; invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies.
<b>Kaua'i Island Utility Cooperative</b>	Member of the Forum; invited to and attended Forum meetings to provide input on all aspects of the 2023 SHMP Update; invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies.
<b>Honolulu Board of Water Supply</b>	Member of the Forum; invited to and attended Forum meetings to provide input on all aspects of the 2023 SHMP Update; invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies.
<b>Hawai'i State Energy Office</b>	Member of the Forum; invited to and attended Forum meetings to provide input on all aspects of the 2023 SHMP Update; invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies.
<b>State Building Code Council</b>	Invited to and participated in the Building Codes and Standards Focus Group; invited to the December 7, 2022 Forum meeting; invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies.
<b>Natural and Cultural Resources</b>	
<b>Department of Land and Natural Resources, Hawai'i State Historic Preservation Division</b>	Provided dataset for cultural resources for the vulnerability assessment.
<b>Department of Land and Natural Resources, Division of Forestry &amp; Wildlife</b>	Member of the Forum; invited to and attended Forum meetings to provide input on all aspects of the 2023 SHMP Update; invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies.
<b>University of Hawai'i Sea Grant Program</b>	Member of the Forum; invited to and attended Forum meetings to provide input on all aspects of the 2023 SHMP Update; invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies; SME review of the climate change and sea level rise hazards (Section 4.2).





Agency	Involvement
Department of Land and Natural Resources, Engineering Division and State National Flood Insurance Program Coordinator	Ex officio member of the Forum; invited to Forum meetings to provide input on all aspects of the 2023 HMP Update; invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies; SME review of the flood and infrastructure failure hazards (Sections 4.6 and 4.10); Invited to participate in the Building Codes and Standards Focus Group.
Department of Hawaiian Home Lands Planning Office	Invited to the Mitigation Workshop in February 2023 and invited to update capabilities and submit mitigation strategies.
<b>Private Sector</b>	
Building Industry Association of Hawai'i Structural Engineer Association of Hawai'i (SEAOH) American Institute of Architects	Invited to the public meetings in April and invited to submit mitigation strategies.

HI-EMA is committed to increasing coordination and collaboration in future hazard mitigation planning and grant activities. As noted throughout, this is a “living” document, and hazard mitigation planning is an ongoing process. HI-EMA will integrate agencies/departments and stakeholders further, as noted in Table 2.2-2, as documented in the updated mitigation strategy action plan (Section 6), and through the implementation of the plan maintenance strategy outlined in Section 7.

### 2.2.3 COUNTIES

As noted above, the Forum includes representatives from all four county emergency management agencies who were invited to all 2023 SHMP Update meetings and participated in the planning process. Refer to Appendix A (Planning Process Documentation) regarding these meetings and attendance. The County of Kaua’i, City and County of Honolulu, County of Maui, and County of Hawai’i partnered with the HI-EMA to hold public meetings in their jurisdiction to inform the public of the 2023 SHMP Update and solicit input.

### 2.2.4 PUBLIC

In July 2022, the hazard mitigation website was updated to keep the public informed of the 2023 SHMP Update planning process ([Hawaii Emergency Management Agency | Hazard Mitigation Plans](#)). On December 20, 2022, a virtual public meeting was held to provide a status update on the 2023 SHMP Update and present risk assessment results. A survey was released during the public meeting to gauge awareness of hazards. The meeting was publicly advertised to provide residents the opportunity to provide input on the planning process (refer to Figure 2.2-1).

The HI-EMA Mitigation Section scheduled seven in-person public meetings on all the major islands to discuss the 2023 SHMP Update. These meetings were held in the City and County of Honolulu (April 5, 2023), County of Hawai’i (Hilo on April 17, 2023 and Kona on April 18, 2023), County of Maui (Moloka’i on April 19 and Maui on April 20), County of Kaua’i (April 24, 2023), and a hybrid statewide meeting in Kapolei (May X). Meeting locations and times were promoted with links to the Hazard Mitigation StoryMap (Figure 2.2-2). Refer to Appendix A (Planning Process Documentation) for further details on additional outreach conducted and public comments received on the draft 2023 SHMP Update.

On April xx, 2023, HI-EMA released the draft plan for public review and comment. The public comment period was open through Placeholder, 2023. A link to the draft plan was posted on the HI-EMA website ([Hawaii Emergency Management Agency | Hazard Mitigation Plans](#)) and added to the StoryMap ([Draft Plan | HI State Hazard Mitigation Plan Update \(arcgis.com\)](#)). Once approved by FEMA, the FEMA-approved plan will be posted on the same HI-EMA website. The public was encouraged to submit comments through an online comment form. All comments received through April 30, 2023, were reviewed and taken into consideration by the HI-EMA Mitigation Section. Applicable and appropriate comments are summarized in Appendix A (Planning Process Documentation).





Figure 2.2-1. Social Media Post Announcing the December 20, 2022 Virtual Public Workshop

**Hawaii EMA** @Hawaii\_EMA · Dec 19, 2022  
ICYMI: Your input is needed as we develop the new State Hazard Mitigation Plan. Join us online tomorrow evening -- at 5:30 PM HST, Tuesday, Dec. 20 -- for the first workshop.

**Hawaii EMA** @Hawaii\_EMA · Dec 13, 2022  
The @Hawaii\_EMA will hold a series of meetings for public input as we develop the new State Hazard Mitigation Plan. The first workshop will be online at 5:30 p.m. HST on Tuesday, Dec. 20. More events are being scheduled. Learn more about hazard mitigation: [dod.hawaii.gov/hiema/hazard-m...](https://dod.hawaii.gov/hiema/hazard-m...)

### Help Build a Safer Hawai'i

Have you experienced impacts to your 'Ohana, your home, or your community from a:

- Flood**
- Wildfire**
- Volcano**
- Landslide**
- Hurricane**
- Other Hazard**

Hazard Mitigation planning develops strategies to minimize the impacts from hazards on the people and places we love.

The Hawai'i Emergency Management Agency (HI-EMA) is updating the State's Hazard Mitigation Plan and wants to hear from YOU!

Scan the QR code or click [HERE](#) to attend the virtual workshop presented by HI-EMA on Tuesday, December 20<sup>th</sup> at 5:30 pm.

Our team will share mapped hazards in your area and want to hear about your knowledge of local hazards and impacts.

Get involved today to make our communities more disaster resilient tomorrow!

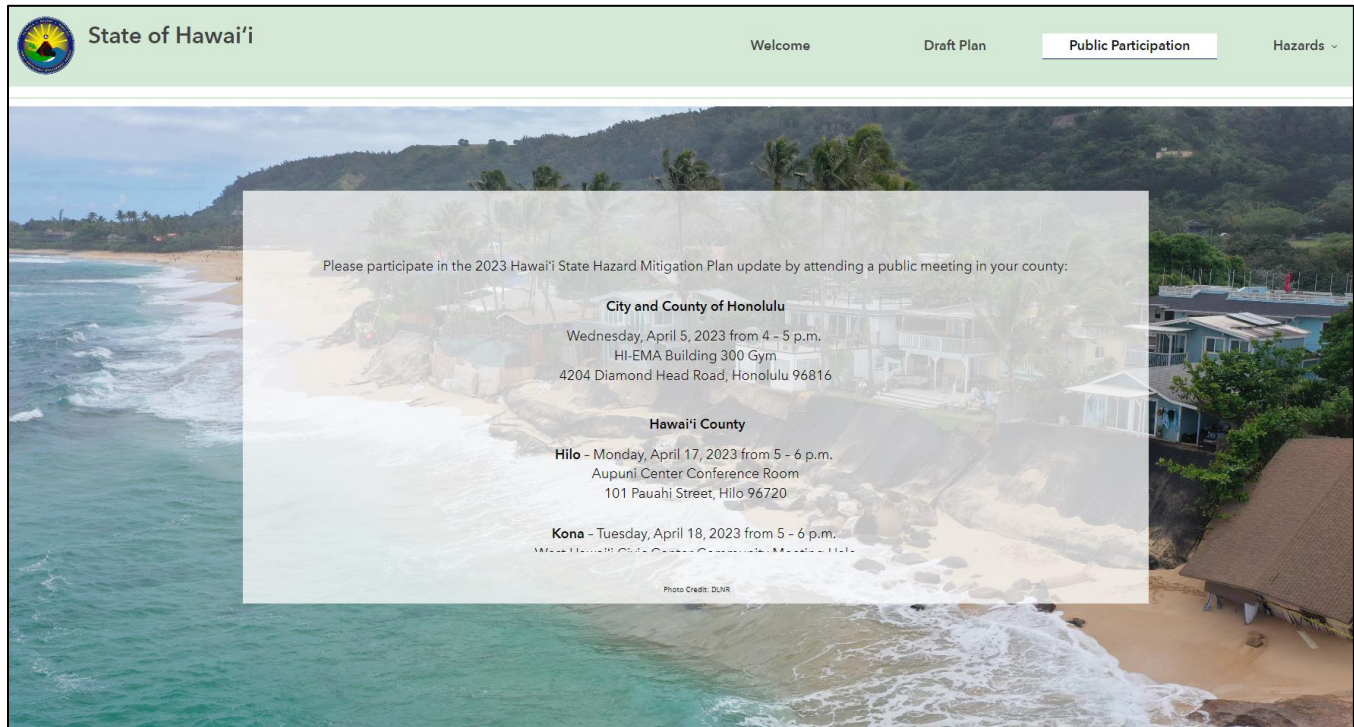
3 replies, 10 likes, 1,885 views

Source: [Hawaii EMA \(@Hawaii\\_EMA\) / Twitter](https://twitter.com/Hawaii_EMA)





Figure 2.2-2. StoryMap Promoting the Public Meetings in April 2023



Source: [Public Participation | HI State Hazard Mitigation Plan Update \(arcgis.com\)](#)

## 2.3 PROGRAM INTEGRATION

**Element S1 and 44 CFR § 201.4(b) and 201.4(c)(1):** The State plan must include a description of the process used to develop the plan, including how it was prepared, the schedule or timeframe, specific milestones and activities, agencies and stakeholders involved, and if the process was integrated to the maximum extent possible with other State planning efforts.

Mitigation plan implementation is most effective when mitigation planning efforts are integrated and coordinated with other state and federal programs and initiatives. A vision of the 2023 SHMP Update was to enhance coordination among sectors, as discussed previously, and integrate the SHMP with other planning efforts. The integration of mitigation into other programs and progress on 2018 SHMP mitigation actions that addressed integration into other planning mechanisms and/or encourage collaborative planning are discussed further in Section 5 (Capability Assessment), Section 6 (Mitigation Strategy), and Appendix C (Capability Assessment Supplement).

### 2.3.1 STATE MITIGATION PROGRAMS AND INITIATIVES

Within the State of Hawai'i, there are several State programs and initiatives that foster SHMP integration and coordination. These programs and initiatives are summarized below, with further details discussed in Section 5 (Capability Assessment) and Appendix C (Capability Assessment Supplement). As part of the 2023 SHMP Update planning process, HI-EMA used the update of the plan as an opportunity to further promote integration. In addition, numerous plans were reviewed and integrated into the 2023 SHMP Update, as documented in the References section. The following list highlights integration opportunities during the planning process as well as a sampling of plans that were integrated into the risk assessment:





- **Broad SME and County Collaboration on the Risk Assessment**—SMEs from state and federal agencies and academia were consulted during the data collection phase and risk assessment methodology development for the 2023 SHMP Update through one-on-one meetings as well as phone and email outreach. Further, these and additional SMEs were requested to conduct a technical review of Section 4. Each county has representation on the Forum with opportunity to collaborate and participate throughout the planning process, including at the risk assessment meeting when draft results were reviewed and discussed. Refer to Table 2.1-3 above for a list of these SMEs that were specifically identified to conduct technical reviews of the draft plan prior to release for public comment. Additional input from SMEs is summarized in Section 4 (Risk Assessment).
- **Expansion of Forum Representation**
  - **Economic**—Starting in 2022, the Department of Business, Economic Development & Tourism was represented on the Forum and participated in the planning process by attending Forum meetings and contributing to the mitigation strategy.
- **Local HMPs**—The local HMPs were reviewed, and data and information were integrated as possible, including hazards of concern and potential new development. Goals and objectives identified in local HMPs were used to inform the development of goals and objectives for the 2023 SHMP Update. County leaders worked with the State in goal and objective development and all aspects of plan development through their involvement on the Forum.
- **HI-EMA Strategic Plan**—Mitigation as one of the four phases of emergency management (preparedness, response, recovery, and mitigation) is a key element of the HI-EMA Strategic Plan, and the SHMP will continue to support and be integrated into Strategic Plan updates.
- **Forum Meetings Discussing FEMA HMGP Projects**—The Forum met during the 2018 SHMP performance period to identify and rank FEMA DR HMGP projects for DR-4282, DR-4365, DR-4366, DR-4395, DR-4549, DR-4604, DR-5404, and DR-4510.
- **Hazards and Vulnerabilities Overview 2022 (HVO)**—The HVO was used to align hazard categories across HI-EMA planning efforts. The 2023 SHMP Update hazard list reflects this alignment.
- **2015 Hawai'i Catastrophic Hurricane Plan**—To align with the *2015 Hawai'i Catastrophic Hurricane Plan*, the statewide and four county-specific hurricane scenario events were evaluated for the 2023 SHMP Update.
- **Threat and Hazard Identification and Risk Assessment (THIRA) and Stakeholder Preparedness Review (SPR)**—The results of the THIRA capability assessment were reviewed for the adaptive capacity component to the hazard ranking methodology, as outlined in Section 4.17 (Vulnerability Summary).
- **Hawai'i 2050 Sustainability Plan**—The Sustainability Plan, notably the social vulnerability strategies, were reviewed for the capability assessment and mitigation action development.
- **Annual Consultation**—The FEMA Region IX annual consultation summary was reviewed and used to identify challenges and opportunities as documented in Section 5 (Capability Assessment).
- **Hawai'i Highways Climate Adaptation Action Plan 2021**—The State Department of Transportation is a member of the Forum and provided the Hawai'i Highways Climate Adaptation Action Plan for review. It was used to identify mitigation actions for the 2023 SHMP Update.
- **The County of Hawai'i Volcanic Risk Assessment 2020 and the Kīlauea Recovery and Resilience Plan**—These two documents were reviewed for the volcanic hazards profile, mitigation action development, and capability assessment.
- **Makani Pahili 2017 Emergency Power Prioritization Workshop Series Report**—In 2017, HI-EMA led a collaborative planning effort with county, state, federal, private sector, and non-governmental organizations to address temporary emergency power planning requirements outlined in the *2015 Hawai'i Catastrophic Hurricane Plan*. The results of this effort were memorialized in the *Makani Pahili 2017 Emergency Power Prioritization Workshop Series*





Report and included the identification of community lifelines and critical facilities within the State. This robust critical facility inventory was utilized for the 2023 SHMP Update risk assessment.

- **Pacific Risk Management Ohana (PRiMO)**—The State Hazard Mitigation Forum participated in PRiMO meetings in 2023.
- **Hawai'i Sea Level Rise Vulnerability and Adaptation Report (2022)**—The 2022 *Hawai'i Sea Level Rise Vulnerability and Adaptation Report* was an update to the 2017 report and quantified the potential area and assets exposed to projected sea level rise, mapped vulnerability zones, and formulated a comprehensive adaptation strategy. Adaptation strategies were integrated into the 2023 SHMP Update mitigation strategy.
- **Hawai'i Drought Plan 2017 Update**—Information from this plan was used to support the drought risk assessment.
- **Natural Disaster Economic Recovery Strategy (NDERS)**—The NDERS was reviewed for integration in the 2023 SHMP Update within the mitigation action plan.
- **U.S. Coral Reef Task Force (USCRTF)**—Mitigation Section staff, including the SHMO, attended the 45<sup>th</sup> USCRTF meeting in Kailua-Kona and participated in working group meetings, site visits, and special sessions to support the development of coral reef restoration mitigation actions.
- **Communities at Risk from Wildfire (CAR)**—The CAR data was provided by the Hawai'i Wildfire Management Organization (HWMO) for use in the vulnerability assessment. The available **Community Wildfire Protection Plans (CWPPs)** were reviewed and integrated into the wildfire risk assessment.
- **Climate Change Impacts in Hawai'i, 2014**—Local impacts of climate change to the State of Hawai'i were integrated into the risk assessment update.
- **State of Hawai'i Databook**—The State of Hawai'i Databook was utilized to report current and projected population and development statistics in Section 3 (State Profile) and support the hazard-specific analyses on projected changes in development in the risk assessment.
- **Hawai'i Earthquake and Tsunami Advisory Committee (HETAC)**—Several members of the HETAC are SMEs and draft plan reviewers for the 2023 SHMP Update: earthquake, landslide, tsunami, volcanic hazards. The HI-EMA Mitigation Section attended quarterly HETAC meetings, updated members on mitigation, and provided status updates on the 2023 SHMP Update during the planning process.
- **State Building Code Council (SBCC)**—The HI-EMA Mitigation Section attended and participated in State Building Code Council meetings.
- **Legislative Briefings**—The HI-EMA Mitigation Section attended numerous legislative briefings on pending legislation during the performance period of the 2018 SHMP.
- **Hawai'i Statewide GIS Program, Office of Planning and Sustainable Development (OPSD)**—Much of the spatial data used for the 2023 SHMP Update was facilitated through the OPSD geospatial data portal.
- **Meeting with the State National Flood Insurance Program (NFIP) Coordinator**—HI-EMA and Planning Consultant met with the State NFIP Coordinator to discuss recent flood events, insurance policy counts, the update of the 2018 SHMP mitigation strategy and capability assessment and to identify mitigation actions for the 2023 SHMP Update.
- **National Emergency Managers Association (NEMA) Forums (2022 and 2023)**—The SHMO attended the week-long NEMA Forums to enhance the 2023 SHMP Update.
- **Hazard Mitigation Partners Workshops (2021 and 2022)**—The SHMO attended the virtual workshops presented by FEMA to gather information about mitigation grants and other applicable updates to benefit the SHMP planning process.
- **State Agency Meetings**—The HI-EMA Mitigation Section attended meetings with State agency representatives and legislators on various issues.

