

Section 4

Implementation and

Monitoring

Section 4.1 | Introduction

A key element of achieving the goals and vision of the South Maui Community Plan (Plan) is the implementation and monitoring programs. This chapter outlines the actions that have been identified as important and necessary by the community to help realize the community's vision.

Section 4.2 | Implementation Program

The Implementation Program includes a capital improvement element, an implementation schedule, and a financial element, as specified in MCC 2.80B.070. The implementation schedule, in section 4.4 below, includes a description of the project or program, priority, timing, lead implementation agency, estimated cost, and potential funding source(s).

Section 4.3 | Monitoring and Evaluation

The Monitoring and Evaluation Program establishes a strategy to track implementation of the Plan, evaluate the effectiveness of policies and programs, monitor the quality of life in South Maui, and allow for periodic program adjustments. This strategy includes establishing and monitoring performance indicators to help implementing agencies attain intended outcomes. Specific benchmarks will be used to measure progress in the implementation of the Plan's policies and actions. The Department will coordinate with the appropriate agencies and program specialists to establish benchmarks for major programs and initiatives. Physical, environmental, cultural, and socio-economic indicators will also be used to assess the overall quality of life in South Maui.

The Department will oversee the Monitoring and Evaluation Program and is developing a monitoring report. The report will identify core indicators as well as measure and evaluate progress of implementing the Plan's policies and actions. Carrying out the Plan's actions as outlined in the Implementation Schedule will provide milestones to measure progress towards achieving the Plan's vision and goals. Chapter 9 of the Maui Island Plan (MIP) includes a detailed description of the Monitoring and Evaluation Program as well as a list of core indicators that could be used.

Section 4.4 | Implementation Schedule

Individual components of the implementation schedule are described below. The implementing actions are sorted by tables in order of the five goals reflecting the community's vision.

Implementing Actions/Related Goals

The numbered actions in each table support the implementation of each goal. The listed actions and goals do not always have a one-to-one relationship. In some cases, a single action supports multiple goals – in other cases, multiple goals are supported by a single action.

Types of Actions

Actions may be listed as capital improvement project (CIP), project or program. A project may be implemented through a specific CIP or a series of projects such as sidewalk improvements assigned to a County agency. CIPs include the infrastructure systems and public facilities and services, such as water facilities and parks that will be needed over the 20-year planning period; however, they are not intended to be an agency's complete CIP list. Projects comprising the capital improvement element are included in the implementation schedule to guide and facilitate programming and budgeting for forthcoming CIPs. The list does not include repair and maintenance projects. A program may include regulatory revisions, day-to-day decision-making or public education and outreach efforts as examples.

Priority

The implementing actions are prioritized as either high, medium or low priority. Medium and low priority actions are considered important for implementing the Plan but may not be as urgent as high priority items. The following questions may be used by CPAC to help rank actions:

- Will the action address an urgent issue?
- Is the action required for public health and safety?
- Is the action required by legal mandate?
- Is the action required to prevent the loss of an irretrievable resource?
- Will the action benefit the majority of the community?
- Will the action significantly improve the quality of life of South Maui residents?
- Is the action required for other actions to be initiated?
- Is the action already funded?
- Does the action have multiple benefits?

Action Timing

- Short-term actions – over the next one to five years following Plan adoption (2024-2028).
- Mid-term actions – between five to 10 years following Plan adoption (2029-2034).
- Long-term actions – between 11 to 20 years following Plan adoption (2035-2044).
- Ongoing actions – following Plan adoption, on-going over the life of the Plan.
- CIP actions – over two-year increments following Plan adoption (2024-2044).

County Lead Agency

As required by MCC 2.80B.070, the implementation schedule identifies a County lead agency to initiate each action. While in some cases close coordination or shared resources are needed with other agencies, one County agency is listed as the lead with the intent that other agencies will be involved as partners. If actions included in the implementation schedule are not under the County's jurisdiction and are important to the community, the County will make the appropriate state agency or organization aware of this action requested by the community.

Cost and Funding

The Implementation Program should provide enough flexibility over the life of the Plan to allow for reprioritization and adjustments to funding levels. Some actions identified will require new County investment to be achieved, beyond current funding or staffing levels. This may include increased departmental funding, requests to the Maui County Council for additional expansion positions, or contracts for professional services, equipment or consulting support. It may also include the identification of new funding sources, seeking outside funding support or partnerships with other organizations, or through some combination of these mechanisms. Appropriate funding mechanisms to implement each action will be identified by the lead agency through the County's annual budget and CIP process. Implementation of the listed actions in the implementation schedule is subject to available funding. Estimated costs are in 2022 dollars and will need to be adjusted at the time of implementation. More information about the financial elements is included on Page 10-4 of the MIP, Chapter 10 Long-Range Implementation Program, Infrastructure Planning and Finance Policy Framework.

Goal 2.1 | A complete, balanced, efficient, and connected transportation network

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	CIP						
1.01	Undertake a study to determine the location and develop the proposed Kīhei Transit Hub, with adequate space for parking and room for expansion and interconnected with proposed multimodal paths in the area.	CIP	Medium	Mid	DOT	10,000	County, State, Federal
1.02	Undertake a study to determine the location and develop an additional transit hub near Mā‘alaea to serve as a transfer station between the south and west sides of Maui, reducing congestion and encouraging public transit ridership.	CIP	Medium	Long	DOT	TBD	County, State, Federal
1.03	To increase mobility options and reduce congestion in South Maui, complete the construction of the Kīhei North-South Collector Road and Multi-Use Path, including the section connecting Kanani/Auhana Roads to Līloa Drive, the sections between East Welakahao Road and Halekuai Street, and East Waipu‘ilani Road and Ka‘ono‘ulu Street, and the section connecting, Ka‘ono‘ulu Road to North Kīhei Road. Consideration should be given to rerouting sections of the North-South Collector Road where the original right of way has not been protected and cannot be utilized. This is the highest priority for roadway improvements in the South Maui community plan area.	CIP	#1 High	Mid	DPW	61,000	County, State, Federal

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	CIP						
1.04 1.03a*	Plan and implement the Keālia bypass road, and explore the possibility of using a portion of the existing North Kīhei Road for a walk/bike path to the Keālia Coastal Boardwalk after the bypass is completed.	CIP	High	Long	DPW	76,000	County, State, Federal
1.05 1.03b*	Develop and implement a program to monitor peak level of service. During peak traffic hours, the level of service is to be D or better for urban centers and corridors, and C or better everywhere else, in accordance with the Hawai'i Department of Transportation level of service definitions.	Program	Medium	On-going	DOT/ State	100	Federal, State
1.06 1.04	Apply for federal grants such as the U.S Department of Transportation's Rebuild American Infrastructure with Sustainability and Equity (RAISE) grant to help fund the completion of transportation projects including the North-South Collector Road.	Project	High	On-going	DPW	N/A	N/A
1.07 1.05	Update the greenways section contained within the South Maui Region Parks and Open Space Master Plan, and create an implementation timeline for a South Maui Greenway multi-use path system linking all of South Maui and including numerous east west segments (i.e. Pi'ikea Avenue, East Līpoa Street and Ohukai Road) connecting Pi'ilani Hwy to South Kīhei Road.	Project	High	Long	DPW, DPR	TBD	County, State, Federal, Private

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	TOD						
1.08 1.07	Develop the South Maui Transit Oriented Development Corridor Master Plan that will identify opportunities to locate transit hubs, increase access to jobs, services and housing, and improve pedestrian safety.	Project	Medium	Short	PD, DOT, MPO	500	State
1.09 1.08	Implement the transportation demand management strategies of the MPO. For example, providing incentives to partner with South Maui employers to sponsor flexible work schedules, bus passes, shuttles, ride-share, bike facilities or other multimodal programs to connect employees to jobs.	Program	Medium	Short	DOT	TBD	County, Federal
1.10	Retrofit existing streets with pedestrian and bike facilities using Complete Streets and Vision Zero Maui principles, where appropriate, to improve connections throughout South Maui neighborhoods and around recreation and commercial areas. Priority areas include sidewalk and intersection improvements discussed in the Hele Mai Maui Long Range Transportation Plan.	CIP	High	On-going	DPW	TBD	County, Federal

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Pedestrian Facilities							
1.11	On South Kīhei Road, install continuous unobstructed 4-foot wide sidewalks, and concurrently create 6-foot wide bike paths adjacent to the sidewalks separated by a 30-inch-wide unpaved green strip where feasible. Include lighted or rectangular rapid flashing beacons at crosswalks where feasible. Prioritize locations as identified by safety and need.	CIP	High	On-going	DPW	TBD	County, Federal
1.12 1.11a*	Begin installation of sidewalks, bike paths and crosswalks as prioritized in the Kihei Sub Area Transportation Plan.	CIP	High	Ongoing	DPW	137,000	County, State
1.13 1.12	Identify, develop and implement Safe Routes to School, Safe Routes for Seniors, Safe Routes to Transit, and Safe Routes to Parks projects throughout South Maui.	Project	High	Mid	DPW	TBD	County, State, Federal
1.14 1.13	Prioritize the identification, design and implementation of a new multimodal transportation corridor through South Maui to Central Maui mauka of (above) Pi'ilani Highway connecting to Maui Veterans Highway in a manner that minimizes the impacts to the 'āina.	Project	High	Long	PD	TBD	County, State

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Pedestrian Facilities						
1.15 1.14	Identify through consultation the appropriate locations and install pedestrian and bicycle wayfinding signage along greenway paths and sidewalk improvement areas that reflect the host culture incorporating ‘Ōlelo Hawai‘i, including maps, directional signs, moku signage, smartphone applications, and public art throughout South Maui.	Project	Low	Mid	OM	TBD	County, State
1.16 1.15	Implement additional bus routes, stops and more frequent transit services to increase public transit use as identified in the Maui Short Range Transit Plan, improving access to employment centers and community services like shopping, education, health care, and recreation, particularly for vulnerable communities and low-to-moderate income neighborhoods.	Project	High	On-going	DOT	TBD	County, Federal
1,17 1.16	Provide a frequent, direct public transportation route to and from Kahului Airport to South Maui and hotels. These buses should have increased baggage allowances and storage to ensure rider safety.	Program	Medium	Mid	DOT	TBD	County, Federal, Private

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Public Transit						
1.18 1.17	Work with the South Maui community to identify locations where Maui Bus shelters and park and rides are needed, and provide covered shelters, lighting, benches, trash receptacles, bike racks, and ADA compliant waiting areas at bus stops.	Project	Medium	On-going	DOT	TBD	County, Federal
1.19 1.17e*	Transition to buses that run on renewable energy, such as electric, hybrid and biodiesel.	Program	High	On-going	DOT	TBD	County, State, Federal
1.20 1.17a*	Tax hotels that do not provide airport shuttles; use the revenue to provide an airport service.	Program	Low	Mid	OM	100	County
1.21 1.17b*	Ensure sufficient public EV charging infrastructure to allow all South Maui residents and visitors to transition off fossil fuel for ground transportation.	Program	Medium	On-going	DOT	500	County, State, Federal
1.22 1.17d*	Complete mapping of old plantation, Kingdom, government roads and military era roads for possible use for emergency evacuation routes.	Project	Medium	Short	PD	250	County, State, Federal

Goal 2.2 | Safe, healthy, livable communities for all

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Beautification							
2.01	Partner with a community organization to design, install and maintain an entry way at the north end of South Maui.	Project	Low	Mid	DOM	TBD	County, Private
2.02	Implement streetscape beautification through an "adoption" program for trees, sidewalks, street frontages and intersections.	Program	Medium	On-going	DPW	N/A	N/A
2.03 2.02a *	Create a program to keep roads safe, beautiful and litter-free through adoption programs, litter campaigns and increased enforcement.	Program	Medium	Ongoing	DPW	150	County, State
Parks and Recreation							
2.04 2.03	Obtain funding and prepare an acquisition strategy for park/open space areas identified on the Community Plan Map for parks and recreational facilities in South Maui. The strategy will address planning, development, acquisition and maintenance of areas with a priority on beach park expansion, including the acquisition of the Waipū'ilani Beach Reserve.	Project	High	Short	DPR	N/A	N/A
2.05 2.03a *	Identify additional locations and construct additional athletic fields, particularly for youth athletics such as baseball.	Project	High	Short	DPR	N/A	County, State

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Parks and Recreation							
2.06 2.04	Explore the feasibility of creating community gardens, which could include agroforestry and fruit tree forests in parks, and the feasibility of stewardship hui or community organizations running them.	Project	Medium	On-going	DPR	N/A	N/A
2.07 2.05	Explore the feasibility of providing overnight campsites with restroom facilities within the region, such as the county-owned land by the police station, as one possibility.	Project	Medium	Mid	DPR	N/A	N/A
2.08 2.06	Work with the Department of Land and Natural Resources to document and map existing government trails and identify missing links to improve connectivity and encourage cultural practices.	Project	Medium	Short	PD	300	County, State, Federal
2.09 2.07	Work with the community to map and identify areas where public shoreline access needs to be preserved or expanded, including public rights-of-way and parking.	Project	High	Short	PD	TBD	Private, County, State, Federal
2.10 2.07a*	Restore public perpendicular and lateral access to the shoreline along the entirety of the South Maui Coast where mandated by HRS 115-4 and 115-5.	Program	High	Mid	PD/OM	TBD	County

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Parks and Recreation							
2.11 2.08	Continue the work of the Waipu‘ilani Beach Reserve Project to identify and implement an access and preservation plan for the Kīhei or Government Beach Reserve and help expedite the execution of the transfer of those Government Beach Reserve lands approved by Executive Order and the BLNR (April 2019) to the County of Maui.	Project	High	On-going	PD	TBD	County, State, Federal
2.12 *4.17*	Prepare and implement an overall improvement plan for county parks that includes a description of proposed facility improvements and approaches to reducing and mitigating the environmental impact of park facilities.	Project	Medium	Mid	DPR	TBD	County
2.13	Fund, design and implement the expansion of Kilohana Park.	Project	High	Mid	DPR	TBD	County
Livable for All							
2.14 2.09	Develop a homelessness strategic plan for South Maui using the Cost of Government Commission's Report on Homelessness in Maui County (April 2022) as a starting point for the creation of the plan.	Project	High	Short	DHHC		County, State, Private
2.15 2.09a*	Build at least one pu‘uhonua with proper sanitation and utilities for those with no or very limited income.	Project	High	Short	DHHC	10 per unit	County, State

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Livable for All						
2.16 2.09b* (2.2.19)	Prioritize infrastructure improvements for 100 percent affordable housing developments reserved for resident households earning 140 percent AMI and below that are supported by the community and the Community Plan.	Program	High	Ongoing	DHHC	N/A	County, State Federal
2.17 2.09c*	Create a County policy to permit single family dwellings to be converted into duplex units.	Project	Medium	Short	PD	N/A	County
2.18 2.09d*	Develop and implement a green waste collection and compost utilization program.	Program	High	Ongoing	DEM	10,000	County
2.19 2.10	Develop a feasibility study for the use and development of the County-owned parcel adjacent to the Kīhei Police Station as a passive park with emphasis on open space and preservation of natural habitat, taking into account the preservation of the wili wili forest, avoiding impacts to cultural resources, and minimizing grading due to geology.	Project	High	Short	OM	50	County, Private
2.20 2.11	Partner with federal and state agencies, private landowners and community groups to develop a management plan for the shoreline areas of Keālia. The plan should address coastal resilience, recreation, resource conservation, inevitable relocation of North Kīhei Road, and other applicable issues.	Project	High	Short	PD	500	County, State, Federal

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Livable for All						
2.21 2.12	Work with the Maui County Arborist Committee to designate as “Exceptional Trees” all trees, or groves of trees, that have historic or cultural value, represent an important community resource, or are exceptional by reason of age, rarity, location, size, aesthetic quality, or endemic qualities.	Program	Medium	On-going	DPR	N/A	N/A
2.22 2.13	Develop and implement a Tree Canopy Plan for South Maui. The plan will include: 1) an inventory and geospatial database of existing trees and canopy cover; 2) an analysis to determine the financial worth of existing trees, considering the replacement value based on size and age of trees, flood abatement, carbon dioxide sequestered, energy usage saved, reduced heat island temperatures, and increased property values, etc.; and 3) a goal for canopy cover increase and strategy to monitor progress and build a program to achieve the goal. Important considerations include providing full canopy trees along roadways, pedestrian and bike paths, and in parking lots and favoring native trees of this region; and 4) Require Parking lot trees that fall under MCC Chapter 19.36B.080 Landscaping be adequately maintained to provide a minimum of 50% canopy coverage of the hardscape.	Project	Medium	Mid	MPO	150	County, State
2.23 2.14	Work with Maui County Arborist to provide training for arborists on maintaining full canopy trees.	Program	Medium	Mid	DPW	TBD	County, State

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Livable for All						
2.24 2.14a*	Develop eligibility standards or incentives to prioritize long term Maui residents for affordable and workforce housing units; examples include San Francisco Housing Lottery Preferences, Summit County Colorado Workforce housing policies and Housing Works Initiative, and other affordable housing residency preference programs.	Program	High	Short	DH	500	County, State
2.25 2.14b*	Create a tax structure that incentivizes owners to rent or redevelop vacant commercial spaces.	Project	High	Short	OM	500	County
2.26 2.14c*	Work with the hospitality industry to develop green initiatives to limit waste and reduce their carbon footprint, for example, composting waste and sourcing products locally.	Program	High	Ongoing	OM	TBD	County, State, Private
2.27 2.14d*	Work with hotels to provide affordable and convenient transportation options for visitors, including shuttles to and from the airport and key destinations near hotels.	Program	High	Ongoing	DOT	TBD	County, Private
2.28 2.14e*	Develop and implement a comprehensive affordable housing program to secure existing and future affordable housing stock with deed restrictions in perpetuity.	Program	High	Short	DH	1,000	County, State
2.29	Create a County Program to facilitate, expedite approvals, and incentivize residential owners to build ‘Ohanas (aka ADUs) for use by their extended families, provide affordable long- term rentals and to preserve generational wealth.	Program	High	Short	PD	n/a	County

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Livable for All						
2.30	Fund and hire additional staff to investigate and conduct random spot checks to permanently eliminate illegal short term rentals.	Program	High	Short	PD	n/a	County

Goal 2.3 | Ready and resilient systems

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Coastal/Sea Level Rise/Shoreline						
3.01	Conduct a detailed vulnerability assessment of all existing County infrastructure and facilities in South Maui that are within the State-recognized SLR-XA and subject to other coastal hazards to determine if relocation, retrofitting or protective measures are needed. Coordinate with the State as needed. Integrate the assessment's findings into current and future plans and projects, as applicable. Establish an adaptive management program to monitor progress.	Project	High	Mid	DOM	1,000	County
3.02	Conduct a feasibility study to identify areas that could support a managed relocation strategy in South Maui. Include an analysis of alternatives and interim steps to achieve managed relocation, incentives for proactive relocation, and zoning code changes needed to adjust land uses or transfer of development rights. Develop and implement programmatic environmental documents, policies, and regulations as needed to assist in incentivizing and implementing managed relocation.	Project	High	Mid	PD	6,000	County, State

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Coastal/Sea Level Rise/Shoreline						
3.03	Develop and provide regional and site specific, proactive guidance on managed relocation strategies to owners of at-risk properties in South Maui. Identify environmental conditions to support site-specific management planning as well as legal and policy needs to facilitate implementation and address barriers.	Program	High	On-going	PD	TBD	County
3.04	Obtain funding to train existing staff and hire more County staff to expand and develop expertise in managed coastal retreat.	Program	High	Short	PD	TBD	County, State
3.05	Integrate the State recognized SLR-XA into South Maui capital improvement planning and projects for all County departments and public facilities to prioritize relocation and avoid the irrevocable investment of resources in high-risk areas.	Program	High	Short	DOM	N/A	N/A
3.06	Identify the locations and support the conversion of cesspools to a regional wastewater treatment system or environmentally appropriate alternatives, primarily in Mā‘alaea and Maui Meadows, by 2030. Explore the use of State and County grants, as well as a County Improvement District, to help finance the conversions.	Program	High	Mid	DEM	TBD	County, State
3.07	Develop an inventory of natural and cultural resources and practices within South Maui impacted by sea level rise, along with preservation and management plans.	Project	High	Mid	DOM	1,500	County, State, Federal, Private

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Coastal/Sea Level Rise/Shoreline							
3.08	Analyze and maintain the shoreline access inventory within South Maui to identify and preserve areas that will be impacted by sea level rise and where connectivity and access to the shoreline as well as along the shoreline (lateral access) can be improved. Use findings to identify solutions to preserve access, including relocating coastal trails.	Project	High	Mid	PD	200	County, State
Fire Hazards							
3.09	Build a new fire station mauka of Pi'ilani Highway, and outside of the sea level rise exposure area, extreme tsunami inundation zone, shoreline erosion hazard line and SMA, to address increased call volume and improve emergency response time. Locate the fire station in the North Kīhei area if possible.	Project	Medium	Long	MFD	5,000	County, State
3.10 3.09	Update the 2016 Community Wildfire Protection Plan for South Maui and enforce that landowners comply with the plan.	Project	High	Short	MFD	75	County
3.11 3.09a*	Implement the 2016 South Maui Community Wildfire Protection Action Plan (as found on page 59 and 60).	Program	High	Short	MFD	300	County, State, Private
3.12 3.09b*	Review and implement the July 2021 Cost of Government Commission report on wildfire prevention and cost recovery on Maui.	Program	High	Short	MFD	TBD	County, State, Private

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Fire Hazards							
3.13 3.10	Develop a comprehensive wildfire data set and GIS layer that includes the acreage, year, location and cause of wildfire events in South Maui to assist in resilient land use planning. Obtain annual funding for a program to ensure continuing coordination, including collection and maintenance of post-incident data, and provide recommendations for future prevention.	Program	Medium	Short	MEMA	N/A	N/A
Resiliency and Disaster Preparedness							
3.14 3.11	Develop a community-based disaster preparedness plan for South Maui that includes consideration of MEMA's Hazard Mitigation Plan to create a proactive disaster coordination framework.	Project	High	Short	MEMA	150	County, State, Federal, Private
3.15 3.12	Develop a long-term post-disaster recovery and reconstruction plan with priority actions for South Maui that incorporates findings and recommendations from vulnerability assessments.	Project	Medium	Mid	MEMA	150	County, State, Federal
3.16 3.13	Identify additional emergency evacuation routes in and out of South Maui, define and implement protocols to provide exit road access to all private roads during emergency evacuation, and provide multi-channel communication for all exit strategies.	Project	High	Short	MEMA	50	County
3.17 3.13a*	Identify areas where impediments need to be removed for emergency evacuation routes out of areas with limited and restricted egress. Develop a plan for implementation in case of an emergency.	Program	High	Mid	OM	150	County, State

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Resiliency and Disaster Preparedness							
3.18 3.14	Develop or partner to create resiliency hubs appropriate for the South Maui community.	Project	Medium	Short	OM / MEMA	1,500	County, Federal, Private
3.19 3.15	Identify existing public right-of-ways to plant native trees and ground covers, and establish native seed banks appropriate for the microclimate to mitigate potential disasters.	Project	High	On-going	DPW	TBD	County, State, Private
3.20 3.15a*	Identify public areas to implement agroforestry, focusing on canoe plants, to promote food security and practical use materials. Develop a long-term plan for use with zero waste.	Program	High	On-going	DPR	250	County
Utilities							
3.21 3.17	Identify and encourage additional users of recycled water, including but not limited to parks, golf courses, agriculture and new developments, with a focus on the largest users of potable water. Expand recycled water storage and distribution lines in South Maui to support new customers and increase overall use.	Project	High	On-going	DEM	25,000	County, State, Federal, Private
3.22 3.19	Conduct a feasibility study to determine if a modern desalinization facility is a viable water source option for South Maui.	Project	Medium	Long	DWS	250	County, State, Federal, Private
3.23 Split 3.19	Conduct a feasibility study to determine if R-0 potable reuse is an additional viable water source option for South Maui.	Project	Medium	Long	DEM	250	County, State, Federal, Private

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Utilities						
3.24 3.20	In partnership with the State's Department of Land and Natural Resources, update the drought management plan and implement priority actions for South Maui.	Project	Medium	Short	DWS	75	County, State
3.25 3.20a*	Fund the extension of the Mākena wastewater infrastructure and connect all properties as far as feasible that are currently using on-site waste disposal systems to the extended sewer line.	Project	Low	Short	DEM	TBD	County, State, Private
3.26	Support and fund the extension of R1 lines to or beyond Wailea to reduce potable water usage.	Project		Long	DEM	TBD	County, State, Private
3.27	Support and fund the expansion of innovative water reuse techniques for better utilization of R1 Water, such as efficient distribution systems, scalping facilities, natural earth filtering systems, and recycled water storage ponds and lagoons.	Project	High	Long	DEM	TBD	County, State
	Miscellaneous						
3.28	Fund and hire staff to investigate and conduct random spot checks to proactively inspect for compliance to policies and actions through defined checkpoints and 100% enforcement when noncompliant.	Program	High	Mid	PD	TBD	County
3.29	Require sirens to be used for fires, tsunamis, hurricanes, floods or other emergencies when immediate evacuation is required.	Program	High	Short	MEMA	TBD	County

Goal 2.4 | Mauka to makai watershed management

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Runoff and Drainage						
4.01	Update and implement the Maui Meadows Subdivision Drainage Master Plan utilizing natural infrastructure and nature-based systems to the fullest extent possible.	CIP	Medium	On-going	DPW	TBD	County
4.02	Update and implement the Kihei Drainage Master Plan for flood prevention to address coastal water quality protection and sensitive ecosystems management in South Maui. In consultation with Native Hawaiian Organizations, update the plan with the findings presented in the Ecological Alternatives Analysis prepared by EcoSolutions LLC (2020) and the recommendations of the Southwest Maui Watershed Plan. Take into account the impacts that upland developments have downstream. Prioritize natural infrastructure, nature-based solutions, green infrastructure and low impact development.	Project	High	Mid	DPW	500	County
4.03	Develop a Stormwater Quality Management Program Plan in South Maui with programs and practices that protect water quality from stormwater runoff.	Project	High	Long	DPW	TBD	County
4.04	Develop and monitor programs to regularly maintain and clear sediment basins and culverts in the mauka/upland areas within both direct and indirect alignment of South Maui to minimize the potential damage from downstream flooding.	Program	High	On-going	DPW	N/A	N/A

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Runoff and Drainage						
4.05 4.04a*	Develop programs to regularly monitor and enforce the clearing of gulches, sediment basins and culverts on public and private properties in South Maui.	Program	High	Ongoing	DPW	300	County
4.06 4.05	Design and implement green infrastructure modifications, natural infrastructure and nature-based solutions along South Kīhei Road to mitigate stormwater runoff and minimize damage from flooding.	CIP	High	Mid	DPW	200	County
4.07 4.06	Provide resources for upland forest conservation, including the dryland forest, invasive species control, and restoration projects to improve forest cover and functions, and reduce downstream flooding. Support the protection of soils and mitigate erosion through feral ungulate fencing and invasive species control and management.	Project	High	Short	OM	2,000	Federal
4.08 4.06a*	Identify and prioritize returning streams that have been diverted, like the Kanaio stream in Mā‘alaea, to their original natural path to remedy the runoff and drainage problems that such diversions have caused.	Project	High	Long	DPW/PD	TBD	County
4.09 4.06b*	Develop a concept for and implement a regional stormwater park mauka of Pi‘ilani highway in collaboration with County Parks, Department of Public Works, large landowners and the community.	Project	High	Mid	DPW	350	County

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Runoff and Drainage							
4.10 4.06e*	Implement the Southwest Maui Watershed Plan.	Program	High	Mid	OM	30,000	County, State
4.11 4.06d*	Establish a watershed advisory group that includes participation from stakeholders mauka to makai, including agencies that manage or regulate lands, residents, landowners, interested community groups and NGOs.	Program	High	Mid	OM	150	County
4.12 4.06e*	Establish and implement a watershed wide water quality monitoring program to measure the quality of runoff and the mass loading of pollutants from major gulches, streams, and waterways.	Program	High	Short	OM	100	County
4.13 4.06f*	Create and implement a Watershed Management Program, which requires the Department of Planning and Department of Public Works to comply with the watershed plans and practices when issuing permits.	Program	High	Short	PD	250	County
Restoration							
4.14 4.07	Create and implement a wetland preservation and restoration program for South Maui to reduce flood impacts from stormwater runoff, improve coastal water quality, protect sensitive ecosystems and expand open space areas.	Program	High	Mid	PD	TBD	County, State
4.15 4.08	Continue to support, fund and expand Wetland Restoration Projects. Develop and implement low-impact pedestrian managed access, where appropriate, near wetland restoration projects.	Project	High	Short	DPW	300	County

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Restoration						
4.16 4.09	Develop and implement a comprehensive dune restoration program plan, identifying methods, funding, stewardship, restrictions and monitoring for South Maui with a focus on the North Kīhei area.	Project	High	On-going	PD	TBD	County, State
4.17 4.09a*	Develop and implement a program plan for sand dune preservation at Haycraft Park and Mā‘alaea Bay Beach.	Program	High	Short	PD	250	County
4.18 4.10	Expand funding for additional Dune Management Coordinator positions for the island of Maui, and fund the implementation of strategies for sand dune protection.	Program	High	On-going	PD	400	County, State
4.19 4.11	Create a South Maui Ridge to Reef Initiative (R2R) or other non-profit entities to leverage resources across several agencies and community groups to implement actions to reduce land-based pollution that impacts coral reefs.	Program	High	Mid	OM	TBD	Private
4.20 4.12	Obtain funding and implement a program in compliance with the Department of Health Quality Assurance Program Plan to monitor water quality and care for all South Maui nearshore waters.	Program	High	Mid	OM	TBD	State
4.21 4.12a*	Provide resources for the protection and rehabilitation of riparian zones, including feral ungulate fencing and planting native plants.	Program	High	Mid	DWS	475	County, State

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Restoration						
4.22 4.12b*	Accelerate funding for R-1 reuse on the landscape to mitigate axis deer damage, recharge depleted aquifers and provide forage for livestock (local food security).	Project	High	Short	DEM	2,000	County, State
4.23 4.12e*	Acquire wetland parcels, under the threat of condemnation if necessary, including TMK 3-9-001-162, 3-9-062-019, 3-9-001-164, 3-9001-007, 3-9-059-001, 3-9-058-061, and 3-9046-011 and designate as Open Space protected lands in perpetuity.	Project	High	Long	OM	45,000	County
4.24 4.12d*	Explore the feasibility of obtaining the areas identified as wetlands with the wetlands mapping study through conservation easements, acquiring through negotiation or under the threat of condemnation, including but not limited to gulches, continuous, intermittent and ephemeral streams, stream beds, flood plains, and other flood prone parcels and designate as Open Space protected lands in perpetuity.	Program	Medium	Long	PD	TBD	County
4.25 4.12e*	Acquire TMK 3-8-077-009, known as the Weinberg Property, to preserve as Open Space for flood mitigation.	Project	High	Long	OM	45,000	County

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Hazards						
4.26 4.13	Develop and implement a mitigation plan for Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties within South Maui that includes raising building elevation, relocation, flood proofing, transfer of development rights, or buyout.	Project	Medium	Mid	DPW	TBD	County, State, Federal
4.27 4.14	Identify and adopt amendments to the Maui County Code flood hazard ordinance to implement more strict NFIP Substantial Improvement regulations for properties in SFHA, including modifying the timeframe to 20 years to make it more difficult for older improvements to “expire” and no longer count towards the substantial improvement timeline.	Program	Medium	Mid	DPW	50	County
4.28 4.15	Coordinate with Maui County Floodplain Manager to pursue funding opportunities from organizations, such as FEMA’s Building Resilient Infrastructure and Communities program, for community-wide flood mitigation projects, implementation of nature-based solutions, and natural infrastructure to enhance ecosystems and reduce flood risks.	Project	High	On-going	DPW	TBD	Federal
4.29 4.15a*	Identify and implement a pilot flood mitigation project that includes nature-based solutions and natural infrastructure to enhance ecosystems and reduce flood risks mauka to makai. Evaluate the results for other projects.	Project	High	Short	DPW	5,000	County

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Hazards						
4.30 4.16	Leverage existing erosion and sea level rise studies, including kilo ‘āina, to develop and implement localized beach management and coastal adaptation plans, including managed retreat.	Project	High	Mid	PD	TBD	County
	Miscellaneous						
4.31 4.16a*	Create a database of impacts from coastal hazards, such as flooding, wave run-up, erosion and other relevant data to inform mitigation and avoid future impacts.	Project	Medium	Short	OM	300	County, State
4.32 4.16b*	Create, implement and fund plans to allow native seed banks the time needed to grow and spread, improving long-term resilience, and preventing runoff.	Program	High	Long	OM	TBD	County

Goal 2.5 | Responsible Stewardship of Wahi Kūpuna and Historic Properties

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	People						
5.01	Establish a code of conduct for County parks with cultural sites in South Maui and install signs explaining the code of conduct at appropriate locations.	Project	Medium	Short	DPR	50	County
5.02	Continue and expand collaborative restoration and preservation efforts, such as agreements between Native Hawaiian Organizations, nonprofits, private entities and County departments, with priority given to dryland forests, fishponds, wetlands and lo‘i within South Maui.	Program	Medium	Short	OM	1,500	County
5.03 5.02a *	Adopt reporting procedures that make it easy for the public to track the implementation of planned developments as well as settlement agreements between intervenors and developers.	Program	High	On-going	PD	TBD	County
5.04	Develop and implement processes/procedures for cultural advisor engagement and a database to document/track outcomes.	Program	High	On-going	PD	TBD	County

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Place						
5.05 5.03	Identify wahi kūpuna and significant historic properties in South Maui that the County should purchase for preservation.	Project	Medium	Short	OIWI	N/A	N/A
5.06 5.04	Identify additional locations in South Maui to host and hold art and cultural events.	Project	Medium	Short	OM	N/A	N/A
5.07 5.04a*	Establish cultural parks/preserves and heritage corridors for visitation and education.	Program	Medium	Long	Oiwi	TBD	County, State
5.08 5.04b*	Implement a cultural overlay map for the South Maui Region to protect areas of significant archaeological, historical and cultural resources, based on existing studies and previously identified historic properties.	Program	High	Short	Council	500	County
5.09 5.04e*	Encourage the State of Hawai'i to fund and carry out an archeological inventory on state properties in South Maui.	Project	High	Mid	Oiwi	N/A	State
5.10 5.04d*	Identify locations and funding sources to acquire land (if needed) and build cultural centers and museums in Kula Kai and Honua'ula Kai.	Project	High	Short	Oiwi	250	County, State
5.11 5.04e*	Fund a study for the restoration of Pu'u Hele, in consultation with Native Hawaiian Organizations.	Project	High	Short	Oiwi	250	County

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	People						
5.12 5.05	Obtain funding and install signs to identify wahi kūpuna and historical sites throughout South Maui in consultation with appropriate Native Hawaiian groups and organizations.	Project	Medium	Short	OM	25-100	County
5.13 5.06 Rec add to MIP	Partner with state agencies, such as DLNR, County Department of Parks and Recreation, and community groups to develop and implement a plan to more effectively address the impacts of tourism, overcrowding and recreational businesses on marine resources, shoreline access and enjoyment. The plan should prioritize Native Hawaiian cultural practices and public shoreline access, and make it easier to enforce existing regulations through the cooperation of various agencies.	Project	High	Short	OM	TBD	County, State