

Section 4

Implementation and

Monitoring

Section 4.1 | Introduction

A key element of achieving the goals and vision of the West 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. [TBD by South Maui CPAC] 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 West 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 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, by 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 and connected transportation network

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	CIP						
1.01	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	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		Long	DOT	TBD	County, State, Federal
1.03	To increase mobility options and reduce congestion in South Maui, complete the construction on the Kīhei North-South Collector Road and Multi-Use Path including the sections between East Waipū'ilani Road and Ka'ono'ulu Street, East Welakahao Road and Halekuai Street, and the section connecting Kanani/Auhana Roads to Līloa Drive.	CIP	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	Apply for federal grants such as the U.S Department of Transportation's Rebuild American Infrastructure with Sustainability and Equity (RAISE) grant that can help fund the completion of transportation projects including the North-South Collector Road.	Project	High	On-going	DPW	N/A	N/A
1.05	Plan and complete a South Maui Greenway multi-use path system linking all of South Maui and including numerous east west segments (like Pi'ikea Avenue, East Lipoa Street and Ohukai Road) connecting Pi'ilani Hwy to South Kihei Road.	Project		Long	DPW	TBD	County, State, Federal, Private
1.06	Plan and implement adaptation measures to address the impacts of sea level rise and increased flooding on South Kihei Road.	Project	High	Short	DPW	TBD	County, State, Federal
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		Short	PD	500	State

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	TOD						
1.08	Create transportation demand management strategies for South Maui that shift commuter priorities away from driving alone to reduce congestion.	Program	Medium	Short	DOT	TBD	County, Federal
1.09	Identify opportunities 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	OM	N/A	N/A
	Pedestrian Facilities						
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	Medium	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	Install continuous unobstructed sidewalks, bicycle lanes and crosswalks on South Kihei Road. Prioritize crosswalk at Azeka Plaza and improve pedestrian protection at Kalama Park crosswalk.	CIP	High	On-going	DPW	TBD	County, Federal
1.12	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
1.13	Identify a new multimodal transportation corridor through South Maui to Central Maui mauka of (above) Pi'ilani Highway.	Project	Medium	Long	PD	TBD	County, State
1.14	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	Medium	Mid	OM	TBD	County, State

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Public Transit						
1.15	Implement additional bus routes, stops and transit services to increase public transit use as identified in the Maui Short Range Transit Plan. This would improve 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	Medium	On-going	DOT	TBD	County, Federal
1.16	Provide a frequent, direct route public transportation 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
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

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		Mid	DOM	TBD	County, Private
2.02	Implement streetscape beautification through an "adoption" program for trees, sidewalks, street frontages and intersections.	Program		On-going	DPW	N/A	N/A
Parks and Recreation							
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.	Project	High	Short	DPR	N/A	N/A

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Parks and Recreation							
2.04	Explore the feasibility of creating community gardens which could include fruit tree forests in parks and the feasibility of stewardship huis or community organizations running them.	Project		On-going	DPR	N/A	N/A
2.05	Explore the feasibility of providing overnight campsites within the region.	Project	Medium	Mid	DPR	N/A	N/A
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 function with the ultimate goal of developing an active and usable network of public trails throughout South Maui.	Project	Medium	Short	PD	300	County, State, Federal
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	Medium	Short	PD	TBD	Private, County, State, Federal

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Parks and Recreation							
2.08	Continue the work of the Waipu'ilani Beach Reserve Project (Grant G5522) to identify and implement an access and preservation plan for the Kīhei or Government Beach Reserve.	Project		On-going	PD	TBD	County, State, Federal
Livable for All							
2.09	Develop a homelessness strategic plan for South Maui.	Project	High	Short	DHHC		County, State, Private
2.10	Develop a feasibility study for use and development of the County-owned parcel adjacent to the Kīhei Police Station, taking into account the preservation of the wili wili forest, avoiding impacts to cultural resources, and minimizing grading due to geology.	Project		Short	OM	50	County, Private

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Livable for All							
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, possible relocation of North Kihei Road, and other applicable issues.	Project		Short	PD	500	County, State, Federal
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

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Livable for All							
2.13	Develop 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.	Project		Mid	MPO	150	County, State
2.14	Work with Maui County Arborist Committee to provide training for arborists on maintaining full canopy trees.	Program		Mid	DPW	TBD	County, State

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 on key State infrastructure and facilities such as highways. Integrate the assessment's findings into current and future plans and projects, as applicable. Establish adaptive management program to monitor progress.	Project	High	Mid	DOM	1,000	County

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Coastal/Sea Level Rise/Shoreline						
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. Consider developing programmatic environmental documents, policies, and regulations as needed to assist in incentivizing and implementing managed relocation.	Project	Medium	Mid	PD	6,000	County, State
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

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Coastal/Sea Level Rise/Shoreline						
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 irrevocable investment of resources in high-risk areas.	Program	High	Short	DOM	N/A	N/A
3.06	Work with the Department of Management, the State Department of Health Clean Water Branch, and property owners to identify next steps in addressing sea level rise impacts to on-site disposal systems (i.e. cesspool and septic systems) and develop conversion or connection plans by 2050 per State Act 125.	Program	Medium	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	Medium	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 the shoreline access inventory within South Maui to identify areas that will be impacted by sea level rise and where connectivity and access can be improved. Use findings to identify solutions to preserve access.	Project	Medium	Mid	PD	200	County, State
Fire Hazards							
3.09	Update the 2016 Community Wildfire Protection Plan for South Maui.	Project	High	Short	MFD	75	County
3.10	Develop a comprehensive wildfire data set and GIS layer that includes the acreage, year and location 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.	Program	Medium	Short	MEMA	N/A	N/A

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
Resiliency and Disaster Preparedness							
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
3.12	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
3.13	Identify additional emergency evacuation routes in and out of South Maui.	Project	High	Short	MEMA	50	County
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
3.15	Plant native trees and ground covers appropriate for the microclimate along existing public rights-of-way and roads.	Project	High	On-going	DPW	TBD	County, State, Private
3.16	Prioritize capital improvement projects designed to maximize resilience and provide multiple benefits for South Maui.	Program	High	Mid	OM	TBD	

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Utilities						
3.17	Identify and encourage additional new users of recycled water, including but not limited to parks, golf courses, agriculture and new developments with a focus on areas mauka of Pi'ilani Highway. 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
3.18	Identify a new location for the Kihei Recycling and Redemption Center.	Project	High	On-going	DEM	N/A	County
3.19	Conduct a feasibility study to determine if a modern desalinization facility or direct/indirect potable reuse are additional viable water source options for South Maui.	Project	Medium	Long	DWS	250	County, State, Federal, Private
3.20	In partnership with the State's Department of Land and Natural Resources, update drought management plan and implement priority actions for South Maui.	Project	Medium	Short	DWS	75	County, State

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	Implement the Maui Meadows Subdivision Drainage Master Plan.	CIP	Medium	On-going	DPW	TBD	County
4.02	Update the Kīhei Drainage Master Plan for flood prevention and coastal water quality protection and sensitive ecosystems management in South Maui. Update the plan with the findings presented in the Ecological Alternatives Analysis prepared by EcoSolutions LLC (2020). Take into account the impacts that upland development have downstream. Prioritize green infrastructure and low impact development where feasible.	Project	Medium	Mid	DPW	500	County
4.03	Develop a Stormwater Management Program Plan in South Maui, similar to Kahului-Pā‘ia’s, with programs and practices for stormwater runoff management from County and private actions.	Project	High	Long	DPW	TBD	County

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Runoff and Drainage						
4.04	Regularly maintain and clear sediment basins and culverts in South Maui.	Program	Medium	On-going	DPW	N/A	N/A
4.05	Design and implement green infrastructure modifications along South Kthei Road to mitigate stormwater runoff and minimize damage from flooding.	CIP	Medium	Mid	DPW	200	County
4.06	Provide resources for upland forest conservation, invasive species control, and restoration projects to improve forest cover and functions, and reduce downstream flooding.	Project	Medium	Short	OM	2,000	Federal
	Restoration						
4.07	Create a wetland preservation and restoration program for South Maui to reduce flood impacts from stormwater runoff, improve coastal water quality to protect sensitive ecosystems and expand open space areas.	Program	Medium	Mid	PD	TBD	County, State

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Restoration						
4.08	Continue to support the Lā'ie Wetland Restoration Project. Develop a low impact pedestrian and bike path near the Lā'ie Wetland to allow access the beach and greenway.	Project	Medium	Short	DPW	300	County
4.09	Develop and implement a comprehensive dune restoration plan, identifying methods, funding, and stewardship, for the North Kīhei area between the NOAA Whale Sanctuary and the Kīhei Canoe Club.	Project	On-going	Mid	PD	TBD	County, State
4.10	Continue to fund a Dune Management Coordinator position and fund the implementation of strategies for sand dune protection.	Program		On-going	PD	400	County, State
4.11	Create a South Maui Ridge to Reef Initiative (R2R) to leverage resources across several agencies and community groups to implement actions to reduce land-based pollution that impacts coral reefs.	Program	Medium	Mid	OM	TBD	Private
4.12	Obtain funding and implement a program to monitor and care for all South Maui nearshore waters.	Program	Medium	Mid	OM	TBD	State

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Hazards						
4.13	Develop 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
4.14	Propose 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
4.15	Coordinate with Maui County Floodplain Manager to pursue funding opportunities from organizations like FEMA’s Building Resilient Infrastructure and Communities program for community-wide flood mitigation projects and support implementation of nature-based solutions to enhance ecosystems and reduce flood risks.	Project		On-going	DPW	TBD	Federal

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	Hazards						
4.16	Leverage existing erosion and sea level rise studies to develop and implement localized beach management and coastal adaptation plans.	Project	High	Mid	PD	TBD	County
	Miscellaneous						
4.17	Prepare an overall improvement plan for county parks that includes a description of proposed facility improvements and approaches to reducing the environmental impact of park facilities.	Project		Mid	DPR	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 between nonprofits, private entities and County departments with priority given to fishponds, wetlands, and lo'i within South Maui.	Program	Medium	Short	OM	1,500	County
Place							
5.03	Identify significant historic properties in South Maui that the County should purchase for preservation.	Project	Medium	Short	OM	N/A	N/A
5.04	Identify additional locations in South Maui to host and hold art and cultural events.	Project	Medium	Short	OM	N/A	N/A
5.05	Obtain funding and install signs to identify wahi kūpuna and historical sites throughout South Maui.	Project	Medium	Short	OM	25-100	County

Action No.	Description	Type	Priority	Timing	County Lead Agency	Cost (\$1,000)	Funding Source(s)
	People						
5.06	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		Short	OM	TBD	County, State