

IMPLEMENTATION



Section	Action Item	Responsibility		Timetable			Est. Cost
		Lead	Supporting	2008-12	2013-17	2018-30	\$1,000 (2007)
	MĀLAMA I KA ‘ĀINA						
2.1.3	Historic, Cultural, and Scenic Resources						
a.	Seek Special Design District designations for the following areas:						
1)	Volcano Village	PD	COU	X			
2)	Pāhoa Town	PD	COU	X			
3)	Kea‘au Town	PD	COU		X		
4)	Kurtistown-Mountain View corridor	PD	COU		X		
b.	Propose amendments to the county building code for traditional Hawaiian building design and construction methods	DPW	COU/PD	X			
2.2.3	Native Forests and Geological Features						
a.	Enact a BRBZ Design District for the Volcano area	COU	PD/DPW	X			
b.	Propose amendments to the County code to protect native species, geological and historic features outside of the BRBZ	COU	DPW/PD	X			
c.	Propose the establishment of an Office of County Ecologist within the Planning Department	COU	PD	X			
d.	Provide County support for forest preservation by offering real property tax reductions and contributing land	COU	FIN, DPW	X	X	X	
e.	Reduce the minimum lot size to qualify for the native forest preservation tax reduction and allow it in any zoning district	COU	FIN	X			
f.	Investigate alternatives to herbicides for weed control on public lands	DOT, DPW	DOE, DPR, DLNR	X			
2.3.3	Aquifers and Coastal Waters						
a.	Encourage State legislation to prohibit the use of cesspools as a means for wastewater disposal in areas below 1,000 feet Mean Sea Level	LEG	DOH/DLNR	X			
b.	Seek state Department of Health acceptance of small-footprint septic wastewater treatment designs and clustered septic systems	LEG	DOH	X			
c.	Prepare watershed management plans for the Volcano-to-Mountain View and Hawaiian Acres-to-Orchidland areas to address localized flooding problems	DPW	DW/PD		X		
d.	Ensure legislation for a corridor of the Puna watershed at least two miles wide including the Wao Kele O Puna forest area and the State lands mauka of Highway 130 between ‘Āinaloa subdivision and Pāhoa is preserved for future potable water use	LEG	DOH/DLNR		X		
e.	Encourage legislation that requires all blackwater wastewater disposal systems to be contained or connected to a collection system in areas below 100 feet Mean Sea Level	PD	DOH, DPW, DEM	X			
f.	Prepare an EA or an EIS for a wastewater treatment facility to service the Kapoho Beach Lots/Vacationland Hawai‘i area	DEM	DOH, PD		X		
g.	Provide tax credits to Kapoho residents who convert their existing cesspools into aerobic treatment systems	LEG	DEM, DOH		X		
2.4.3	Shoreline Area						
a.	Expand and improve database, references and skills at County level to review shoreline permit applications	PD	UH, DBEDT, FED	X			
b.	Research and record information on trails and historic resources in the coastal zone	DLNR	PD	X			

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c.	Conduct historic and biological surveys for review of shoreline permit applications and certifications and recommend increased scrutiny of applications for SMA permits for subdivision of properties likely to be underwater in 100 years	PD, DLNR	NGO	X			
d.	Take into account subsidence and storm waves in shoreline certifications	DLNR	PD	X			
e.	Study storm wave and high tide patterns to develop refined coastal flood zone maps	FED, UH, DLNR	DPW	X			
f.	Implement special zoning and development controls for Kapoho area to address subsidence issues	PD	UH, DBEDT, FED	X			
MANAGING GROWTH							
3.1.3	Land Use Pattern						
a.	Provide county support for land use entitlements and land assembly for voluntary land pooling projects by:						
1)	Initiating a special use permit request or petition for land use boundary amendment	PD	LUC		X	X	
2)	Seeking amendment to State Land Use Law to enable “rural town/village” standards	PD	LUC	X			
3)	Seeking State enabling legislation to allow County to retain lots delinquent in real property taxes	PD	FIN	X			
4)	Extending technical assistance and advice to community-based land pooling associations	CC, FIN	NGOs	X	X	X	
b.	Establish the following general classifications for village and town centers: Regional, Community and Neighborhood	PD	CA	X			
c.	Facilitate land use entitlements and other tools for the development of existing and future village/town centers and special design districts by:						
1)	Recommending approval of applications for commercial zoning or use permits for existing commercial uses in designated village/town centers	PD	COU	X			
2)	Recommending denial of applications for zone changes for commercial or light industrial use on sites that are not within designated village/town centers	PD	COU	X	X	X	
d.	Facilitate land use entitlements and financing for the development of new village/town centers by:						
1)	Creating a regional town center plan for each village/town center	PD	CA	X			
2)	Providing loan guarantees or grants to community associations or partnerships for infrastructure development	COU	FIN		X	X	
e.	Propose amendments to the zoning code and/or apply district-wide rezoning to limit allowable building footprint on residential and agricultural-zoned lands	COU	PD	X			
f.	Require County agencies to establish and report on Level of Service standards for infrastructure and services	COU	PD, DPW, HFD, HPD, DWS, DPR	X	X	X	
g.	Urge the Department of Hawaiian Home Lands (DHHL) to conform to the goals and objectives of the PCDDP	COU/LEG	DHHL	X			
h.	Propose reduction of property tax assessments and payments for properties whose development rights have been removed or reduced	COU	FIN		X		
i.	Conduct study on the impacts from subdivision build-out	PD	DLNR, DWS	X			
j.	Recommend legislation for wider notice of pending applications for special permits, variances and zoning changes	PD	COU	X			

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3.2.3	Agriculture and Economic Development						
a.	Limit water system and road standard variances for new subdivisions on agricultural-zoned land	PD	COU	X			
b.	Consider down-rezoning of lands in Agricultural zoning districts to discourage further subdivision into small lots	PD	COU	X			
c.	Reconsider Urban Expansion Areas for Pāhoa on the LUPAG, except where they correspond to existing residential zoning and designated Regional Town Center and industrial boundaries	COU	PD	X			
d.	Seek State legislation to impose higher conveyance and/or capital gains taxes on short-term property re-sales	LEG	FIN	X			
e.	Seek state legislation to allow the county to hold onto properties that are in foreclosure due to property taxes in arrears rather than immediately auctioning them to the highest bidder	COU, LEG	FIN	X			
f.	Provide land and infrastructure for farmers' markets within village/town centers	R&D	DPW	X	X		
g.	Seek State authorized lower General Excise Tax rate on local agricultural products sold at County farmers markets	LEG	R&D	X			
h.	Develop an agri/eco-tourism policy, necessary zoning and other County assistance for farmers markets, special events, restaurants specializing in local food products, and similar promotions of local agriculture	R&D	PD	X			
i.	Develop business incubator districts in Kea'au, Pāhoa, and Mountain View	R&D	DBEDT/DP	X	X		
j.	Promote use of the incentives offered by the designation of an Enterprise Zone	R&D	DBEDT	X	X	X	
k.	Support the HCC-Bay Clinic or similar partnership to establish a youth business center in Kea'au	HCC, NGO	DBEDT, R&D	X			
l.	Support the development of a community-based organic farming operation and training facility in cooperation with HCC and UH	HCC, UH	R&D	X			
m.	Develop job opportunities in Puna in renewable energy generation	R&D	DBEDT		X	X	
n.	Conduct a study to define and identify important agricultural lands in Puna	PD	R&D	X			
o.	Create a real property tax exemption (perhaps 4 to 6 years) for farmers entitled to Federal crop loss insurance	COU	FIN		X		
p.	Encourage organic farming and gardening by establishing a Puna agriculture scholarship with HCC and UH Hilo	HCC, UH	LEG/COU	X	X	X	
3.3.3	Social Services and Housing						
a.	Develop a centrally located full-service medical facility based on a non-profit model	NGO	LEG/DOH	X	X	X	
b.	Establish "one-stop" social services assistance centers at various locations	NGOs	DHS, OHCD	X	X		
c.	Build partnerships between the County and non-profit organizations for social services and economic development	COU	NGO, OHCD, R&D	X	X	X	
d.	Seek State enabling legislation to help lower self-help housing construction costs	LEG	COU/OHCD, DPW	X			
e.	Offer educational programs to develop financial skills of renters and rental strategies for owners and tenants	OHCD	HFDC	X	X	X	
f.	Promote programs to increase homeownership opportunities	OHCD	HFDC	X	X	X	

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g.	Promote multi-family and special needs housing in village/town centers	HFDC/OHCD	PD	X	X	X	
h.	Propose amendments to the building code to allow occupancy of residential dwellings before final inspection	COU	BD	X			
i.	Urge the State to increase local control over public schools	LEG	COU	X	X		
j.	Urge the State to establish a Hawai'i Community College/UH-Hilo satellite campus in Puna	LEG	UH	X			
3.4.3	Public Safety and Sanitation Services						
a.	Develop permanent fire stations at Hawaiian Beaches/Shores, Hawaiian Paradise Park, lower Volcano, and Mt. View	COU	HFD		X	X	
b.	Provide additional volunteer stations in subdivisions as sites become available and growth warrants	HFD	NGOs	X	X	X	
c.	Promote free wireless internet services	COU, LEG	FED		X	X	
d.	Provide more emergency call boxes along State highways	DOT			X		
e.	Encourage enhancement of cell phone service to cover remote areas	LEG	PUC		X		
f.	Boost Department of Environmental Management recycling budget	COU	DEM	X	X	X	
g.	Increase County resources to handle abandoned/derelict car removal	COU	DEM	X	X	X	
h.	Provide public financial support for infrastructure development within approved village/town centers	COU/FED	DEM, DWS, DPW		X	X	
3.5.3	Parks and Recreation						
a.	Consider expanding the Camp Ground at MacKenzie State Park to include public property south of MacKenzie	DLNR	DPR		X		450
b.	Improve and expand Coastal Activity Areas as follows:						
1)	Ahalanui Beach Park	DPR	COU	X			925
2)	Consider modifications to tidepools beyond "Shacks" for use as "keiki pools"	DLNR	DPR, NGO		X		185
3)	Pursue development of a camp ground and/or ocean recreation park with potential boat launch ramp and marina facilities at Cape Kumukahi	DLNR	LEG		X		TBD
4)	Consider acquisition and development of Honolulu Landing, Kapoho Crater and Sand Hill	DLNR, DPR, COU	DPR, DLNR			X	TBD
5)	Develop support facilities for Kehena Beach State Park	DLNR	DPR	X			TBD
6)	Encourage development of hike/camp coastal trail system	DLNR, DPR	NGO			X	TBD
c.	Improve and expand Community Parks as follows:						
1)	Develop new community parks in: a) Hawaiian Acres; b) North Kūlani; c) Glenwood; d) Nānāwale Estates; e) Leilani Estates; f) Orchidland Estates; and g) Hawaiian Beaches subdivision	DPR	COU		X		TBD
2)	Various improvements to Pāhoa Regional Park	DPR	COU	X	X	X	3,750
3)	Various improvements to Shipman (Kea'au) Regional Park	DPR	COU	X	X	X	3,300
4)	New district park and various improvements at Hawaiian Paradise Park	DPR	COU	X	X	X	9,400
5)	Develop recreational programs for Cooper Center and Volcano Community Park	DPR	COU	X			
6)	Provide improvements at Mountain View Community Park and A. J. Watt Gym	DPR	COU		X		185
7)	Expand hours of operation at regional and larger community parks	DPR	COU		X		

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8)	Develop a new senior center in Mountain View	DPR	OHCD		X		185
9)	Provide in each village center a recreational park and village green	DPR, NGOs	COU		X	X	TBD
10)	Make recreation facilities and meeting rooms at public schools available for community use after school hours	DOE	DPR, NGOs	X			
11)	Create small community parks as part of right-of-way acquisition for new connecting road segments between subdivisions	DPW	NGOs		X	X	
d.	Create and improve Linear Parks as follows:						
1)	When acquiring rights-of-way for constructing new roadways or improving existing major roadways, make provisions for parallel multi-use recreational trails	DPW, DOT	COU		X	X	
2)	Complete development of Old Volcano Trail as a pedestrian and cycle pathway	DPW	COU	X			
3)	Acquire former railroad right-of-way from Kapoho through Hawaiian Paradise Park for hiking, bicycling and horse-back riding	DPW	DLNR		X		
4)	Plan for acquisition and development of the former railroad right-of-way from Hawaiian Paradise Park to Railroad Avenue in Hilo	DPW	DLNR			X	
5)	Plan for public access along Old Government Road (coastal trail) as a bicycle and hiking trail	DLNR	DPW		X		
e.	Create and improve Preserves as follows						
1)	Assess appropriate level of site visitor usage and implement self-guided or steward-led tours	DLNR	DPR	X			
2)	Improve conditions at Wai'ōpae Tidepools	DLNR	LEG		X		600
3)	Consider acquiring Green Lake and vicinity for native habitat restoration and nature center	DLNR	LEG		X		TBD
4)	Consider hiking trails through Nānāwale Forest Reserve	DLNR	PD, NGO		X		300
5)	Pursue development of passive cultural/botanical park in Hawaiian Paradise Park	DLNR	DPR			X	TBD
3.6.3	Energy Sustainability						
a	Apply LEED standards for public buildings, with a minimum goal of silver level	BD	COU	X			
b.	Investigate ground-water cooling for public buildings	DBEDT	DPW	X			
c.	Promote energy efficiency standards for larger residences	BD	COU	X	X		
d.	Incorporate energy-efficient features into the construction of lower-cost homes with the use of public subsidies	OHCD, HFDC	PUC	X	X	X	
e.	Establish a Renewable Energy Research & Development fund with UH-Hilo	UH	DBEDT/R&D				
f.	Apply the PUC Public Benefits Fund to retrofit dwellings for alternative energy, with sliding scale to reach low-income households	PUC	COU, OHCD	X	X	X	
g.	Negotiate a direct use of geothermal agreement for agricultural uses as part of any expansion of the capacity of the Puna Geothermal Venture plant	HELCO, PUC	R&D	X			
h.	Promote biomass energy and fuel production using wood chips from exotic trees	PUC	DBEDT, R&D	X	X	X	
i.	Pursue new renewable energy sources (OTEC, wave energy, solar capture) as technology advances	PUC	DBEDT, R&D		X	X	
1)	Pursue an ocean energy or enterprise subzone	R&D	DBEDT, PD		X		
2)	Pursue other applications besides energy capture (e.g., aquaculture and agricultural product washing)	R&D	DBEDT		X	X	

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4.1.3	TRANSPORTATION Traffic Demand Management						
a.	Promote VanPool and ride-sharing alternatives more actively	DOT	R&D, EMPL	X			
b.	Promote staggered work hours and telecommuting with major employers and institutions	COU, UH	EMPL	X			
c.	Facilitate telecommuting by developing free Wi-Fi reception in Puna	COU, LEG	FED		X	X	TBD
4.2.3	Mass Transit						
a.	Prepare a county-wide Transit Master Plan	MTA	FED	X			TBD
b.	Improve transit service operations by:	MTA	FED				
1)	Increasing transit service to a minimum of two additional runs during peak hours	MTA	FED	X			1,200
2)	Establish demand responsive transit in subdivisions	MTA	FED		X		TBD
3)	Provide commuter express bus service from Pāhoa to Hilo and Volcano to Hilo	MTA	FED		X		TBD
4)	Establish a hub-and-spoke transit system	MTA	FED		X		TBD
c.	Develop transit hubs at the following locations:						
1)	Kea'au (Primary Hub)	MTA	FED		X		TBD
2)	Pāhoa (Secondary Hub)	MTA	FED		X		
3)	Volcano (Secondary Hub)	MTA	FED		X		
4)	Mountain View (Secondary Hub)	MTA	FED		X		
d.	Provide park-and-ride lots at transit hubs and HPP	MTA	FED	X	X		
e.	Develop a cooperative program with public and private schools to provide student passes for the Hele-On Bus	MTA	DOE, LEG, NGOs	X			
f.	Launch public education campaign promoting transit services	MTA	NGOs	X	X	X	
g.	Cultivate public/private partnerships, such as employer-sponsored bus passes	MTA	NGOs, EMPL	X	X	X	
h.	Expand MTA staff to provide greater support for transit operations	COU	FIN, MTA	X	X		
i.	Investigate other fare/ticketing incentives to increase ridership	MTA	FED	X			
j.	Work with DOT in creating safe pedestrian conditions for using mass transit	MTA	DOT	X	X		
k.	Expand Hele-On service to include regular service to the Hilo and Keahole International Airports	MTA	DOT, COU	X			
4.3.3	Roadway Network						
a.	Short Term (2008-2012)						
1)	Plan and design PMAR alignment	DPW	DOT	X			
2)	Require building setbacks in HPP for potential PMAR extension	PD	DPW	X			
3)	Establish emergency routes using mostly existing road beds	DPW	NGOs	X			
4)	Include pedestrian and bicycling requirements in all projects	DPW	NGOs	X			
5)	Create connectivity alignments between various subdivisions	DPW	NGOs	X			
b.	Medium Term (2013-2017)						
1)	Construct a two-lane roadway between Kaloli Dr and Kea'au	DPW	NGO		X		19,200
2)	Construct unpaved two-lane roadway between Kahakai Blvd and HPP	DPW	DLNR, NGO		X		4,400
3)	Construct a two-lane roadway from Nānāwale to Kahakai Blvd	DPW	NGO		X		4,000

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4)	Study need/feasibility of Pāhoa-Hwy 11 and Hwy 11-Stainback Highway alternative routes	DPW	DOT			X	
c.	Long Term (2018-2030)						
1)	Construct Phase II segments of PMAR	DPW	DOT			X	33,500
2)	Acquire additional right-of-way through HPP to extend PMAR	DPW	DOT			X	1,700
3)	If traffic demands, construct PMAR extension through HPP to connect to Kahakai Boulevard	DPW	DOT			X	23,000
4.4.3	Highways						
a.	Short Term (2008-2012)						
1)	Intersection improvements on Highways 11 and 130	DOT	LEG/FED	X			5,500
2)	Reduce speed limit on Hwy 130 to 45mph (Kea'au Bypass to Ainaloa Blvd)	DOT	LEG/FED	X			
3)	Determine most effective ways to improve highway safety for all travel modes	DOT	LEG/FED	X			
4)	Implement the Hwy 130 shoulder lane conversion project between Kea'au Bypass and Shower Drive and consider using the 3 rd lane as a reversible lane for peak periods	DOT	LEG/FED	X			6,500
b.	Medium Term (2013-2017)						
1)	Increase capacity on Hwy 130 between bypass road and Ainaloa, based on optimal safety	DOT	LEG/FED		X		28,000
2)	Construct a right exit lane on Hwy 11 below Kea'au Ag lots to Kea'au Village using the existing Old Volcano Rd ROW	DOT	LEG/FED		X		
3)	Create a right hand turn lane from Hwy 132 onto Hwy 130	DPW	LEG/FED		X		
4.5.3	Non-Motorized Travel and Scenic Byways						
a.	Request that the STIP allocate a larger share of federal "flex funds" to transit-related and alternative travel modes	COU	DOT, FED	X	X	X	
b.	Allocate funding to DPW for safe routes to schools/parks improvements, with Kea'au improvements as a priority	COU	DPW	X	X	X	
c.	Invest in pedestrian-, bicycle- and parking-related improvements in approved village/town centers	COU	DPW	X	X	X	
d.	Allocate funding to the HPD to monitor traffic operations along safe routes to schools/parks	COU	HPD	X	X	X	
e.	Complete surveys, acquisition of right-of-way, maintenance agreements, planning and design, and construction for multi-purpose trails	DPW, DLNR	COU, LEG	X	X		10,700
f.	Designate and improve Highway 137 (Red Road) as a Scenic Byway	DPW			X	X	1,100