



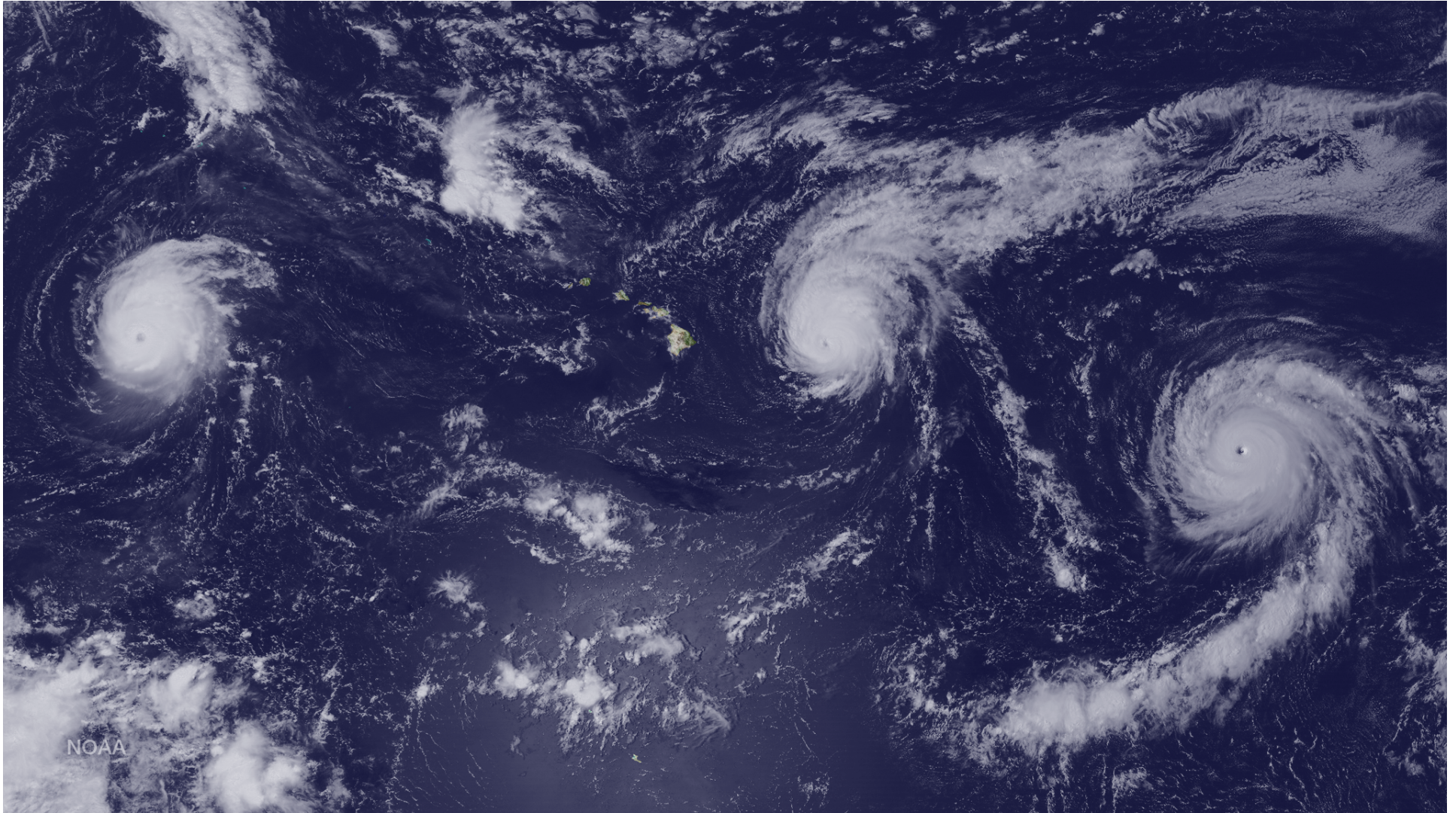
# Mitigation Challenges & Opportunities

Dylan P. Armstrong, Planner V  
Mitigation Section

Hawai'i Emergency Management Agency  
(HI-EMA)







NOAA

### HMGP Application Tracking 4th Quarter 2019

#### DR-4365 KAUAI/OAHU FLOODS

Project Title	Total Cost	Federal Share	Non-Federal Share
Hardening of the Kauai War Memorial Convention Hall	\$ 200,000	\$ 150,000	\$ 50,000
Lihue Airport Electrical Distribution Hardening	\$ 150,000	\$ 112,500	\$ 37,500
Waikiki Fire Station (Station 7) Door Hardening	\$ 412,143	\$ 309,077	\$ 103,066
Lahaina Wastewater Treatment Plant Emergency Generator	\$ 845,000	\$ 633,750	\$ 211,250
Volcanic Emissions Public Health Alert System	\$ 566,920	\$ 421,907	\$ 145,013
Mobile Generator for Honolulu BWS Kaonohi Wells	\$ 300,000	\$ 225,000	\$ 75,000
Honolulu Tsunami Signage	\$ 800,000	\$ 600,000	\$ 200,000
Hawaii State Building Code Updates	\$ 266,667	\$ 200,000	\$ 66,667
Maui Food Bank Generator	\$ 125,000	\$ 93,750	\$ 31,250
Other	\$ 298,409	\$ 219,409	\$ 79,000
<b>TOTAL</b>	<b>\$ 3,964,139</b>	<b>\$ 2,965,393</b>	<b>\$ 998,746</b>

#### DR-4366 KILAUEA LAVA FLOWS

Project Title	Total Cost	Federal Share	Non-Federal Share
Long-Term Recovery and Post-Disaster Hazard Mitigation Plan (7%)	\$ 580,000	\$ 262,500	\$ 317,500
Analysis to Establish Research-Based Shoreline and Riparian Setbacks for Hawaii	\$ 260,968	\$ 195,726	\$ 65,242
Hawaii County: Integration of Climate Change Adaptation Plan into the Mitigation Plan	\$ 100,000	\$ 75,000	\$ 25,000
Other	\$ 402,022	\$ 297,167	\$ 104,855
Voluntary Buy-outs of Properties Impacted by Lava	\$ 55,000,000	\$ 41,250,000	\$ 13,750,000
Wailuku Bridge #1 and Wai-ānuenue Avenue Bridge Hardening	\$ 26,680,000	\$ 20,010,000	\$ 6,670,000
Microwave Network Upgrade	\$ 6,745,467	\$ 5,059,100	\$ 1,686,367
Real-Time Wildland Fire Risk Prediction System	\$ 1,310,281	\$ 975,785	\$ 334,496
Lanakila Pacific Generator	\$ 5,195,000	\$ 3,896,250	\$ 1,298,750
Other	\$ 2,500,000	\$ 1,875,000	\$ 625,000
<b>TOTAL</b>	<b>\$ 97,430,748</b>	<b>\$ 73,066,135</b>	<b>\$ 24,364,613.00</b>

#### BACK-UP PROJECTS

Project Title	Total Cost	Federal Share	Non-Federal Share
Hardening of the Parker No. 2, Waiaha and Lalamilo B Wells	\$ 315,000.00	\$ 236,250.00	\$ 78,750.00
IT Data Center	\$ 2,141,967.87	\$ 1,606,475.87	\$ 535,492.00
Mobile Generators for Wastewater Treatment Facilities	\$ 1,608,050.00	\$ 1,206,038.00	\$ 402,012.00
ArcGIS Data Management, Collection and Tracking	\$ 130,000.00	\$ 97,500.00	\$ 32,500.00
Hardening Pacific Tsunami Museum	\$ 815,000.00	\$ 611,250.00	\$ 203,750.00
Komohana Research and Extension Center Phase B Repairs	\$ 2,046,000.00	\$ 1,365,000.00	\$ 681,000.00
Mauna Kea Strategic Hazardous Fuels Reduction Project	\$ 240,000.00	\$ 180,000.00	\$ 60,000.00
<b>TOTAL</b>	<b>\$ 7,056,018</b>	<b>\$ 5,122,514</b>	<b>\$ 1,933,504</b>

# 2018 Hazard Mitigation Grant Program (HMGP) Funds as of 1 January 2020 (in thousands)

Disaster Name	HMGP Grant (75%)	Cost- Share (25%)	State Man- agement Costs (SMC)	Net
<i>Kaua‘i/O‘ahu Floods</i>	\$3,756,992.00	\$939,248.00	\$626,165.00	<b>\$5,322,405.00</b>
<i>Kīlauea Lava Flows</i>	\$19,914,245.00	\$4,978,561.25	\$3,982,849.00	<b>\$28,875,655.25</b>
<i>Hurricane Lane</i>	\$1,996,067.00	\$499,016.75	\$399,123.00	<b>\$2,894,206.75</b>