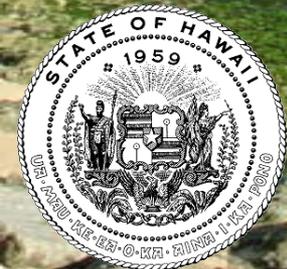


Climate Change Adaptation Activities in Hawaii

Western Coastal Managers Meeting 2009

San Francisco
January 26th, 2009

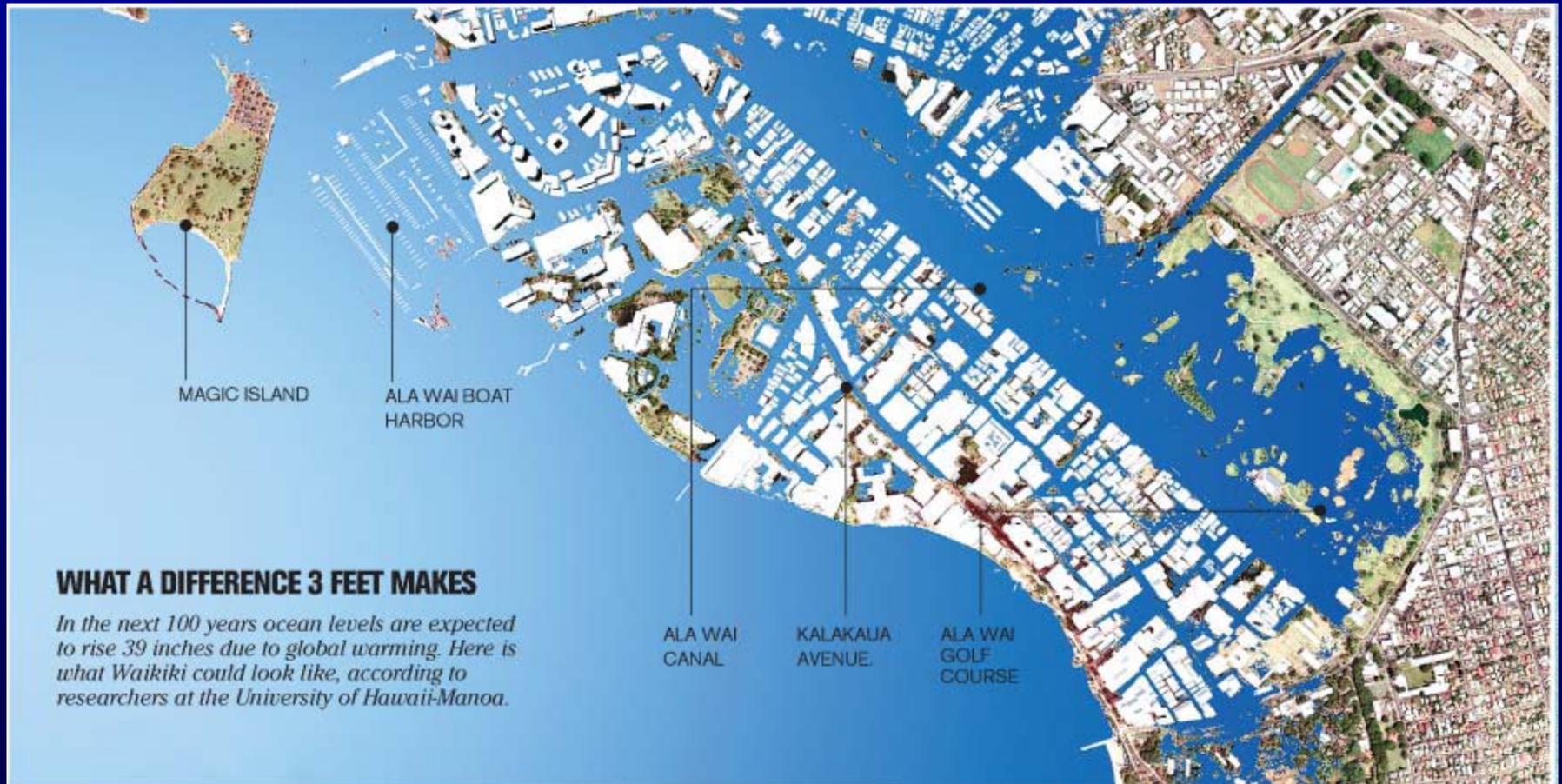


Presentation Outline

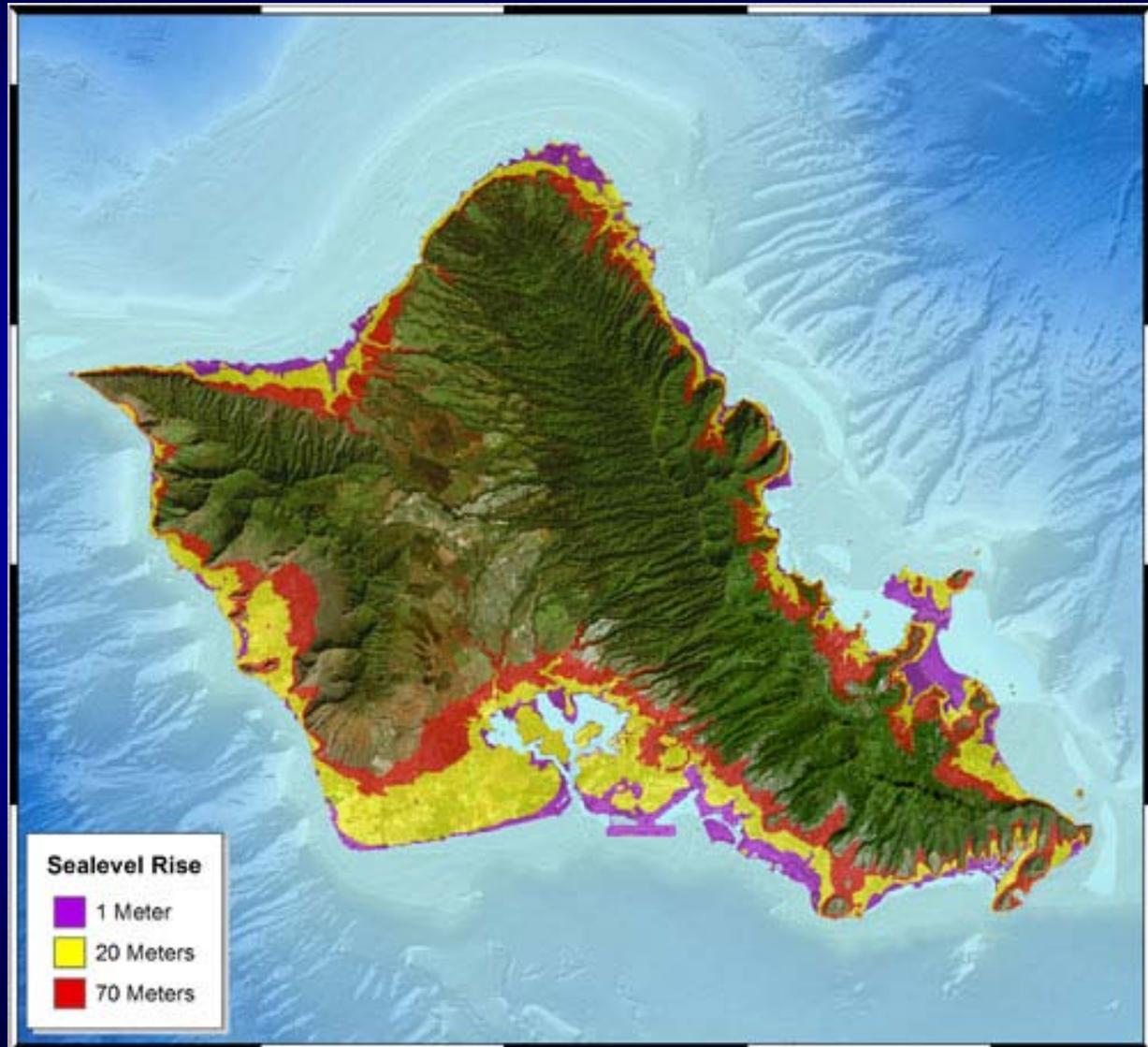
1. Sea Level Rise Estimates
2. Permitting
3. Environmental Review Process
4. Climate Change Initiatives in Hawaii



Hawaii's Estimates of Sea Level Rise: 1 Meter/Century



Sea Level Rise on Oahu



Permit Applications

- Shoreline Setback Rules & Regulations
 - Administered separately by each county
 - In accordance with HRS Chapter 205A (CZM)
 - Purposes:
 - Preserve natural shoreline processes
 - Provide public access to and along shoreline
 - Preserve the quality of scenic & open space resources
 - Protect life & property from **coastal erosion & other coastal hazards**
 - 2/4 Counties have stricter setbacks based on annual erosion rates:
 - Maui: 20 ft. + 50 X annual erosion rate
 - Kauai: 40 ft. + 70 - 100 X annual erosion rate (based on sq. footage)
 - (Others: 20 – 60 ft)



Hawaii's Environmental Review Process

Hawaii State Legislature, 2008: University of Hawaii to conduct a study of the State's environmental review process

- Review the feasibility and impact of requiring an environmental impact statement to include effects of a proposed action as a contributor to climate change
- Develop strategy for modernizing Hawaii's environmental review system to incorporate national & int'l best practice standards

Due: December, 2009



Act 234 of 2007

The Global Warming Solutions Act

- *Establishes as state policy statewide greenhouse gas emissions limits at or below the statewide greenhouse gas emissions levels in 1990 to be achieved by January 1, 2020.*
- *Establishes **greenhouse gas emissions reduction task force** to prepare a work plan and regulatory scheme to achieve the statewide greenhouse gas emissions limits. (HB226 CD1)*
 - Hawaii Greenhouse Gas Inventory: 1990 and 2007 (2008)
 - Work Plan & Recommendations: December 2009
 - Administrative Rules setting GHG limits: December 31, 2011
 - Rules & regulatory scheme go into effect: January 1, 2012



Climate Change Initiatives

- **Global Climate Change Initiatives in Hawaii (2008)**
(CZM)
- **Studying the Impacts of Climate Change in Hawaii (Developing scope)**
(CZM & Statewide Ocean Resources Management Plan Working Group)
- **Kailua Beach Park Management Plan (In progress)**
(DLNR)



Climate Change Initiatives (con't)

- **Building Community to Coastal Hazards Resilience (2008)**
(UH Sea Grant)
- **Pacific Islands Regional Assessment of the Consequences of Climate Variability and Change – Preparing for a Changing Climate (2001)**
(Pacific Islands Regional Assessment Group)
- **Hawaii Climate Plan (1998)**
(Hawaii Dept. of Business, Economic Development & Tourism)
- **Climate Change and Hawaii (1998)**
(USEPA)



Mahalo!

