## CWA Compensatory Mitigation Challenges and Opportunities

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## Kahului Harbor, Maui

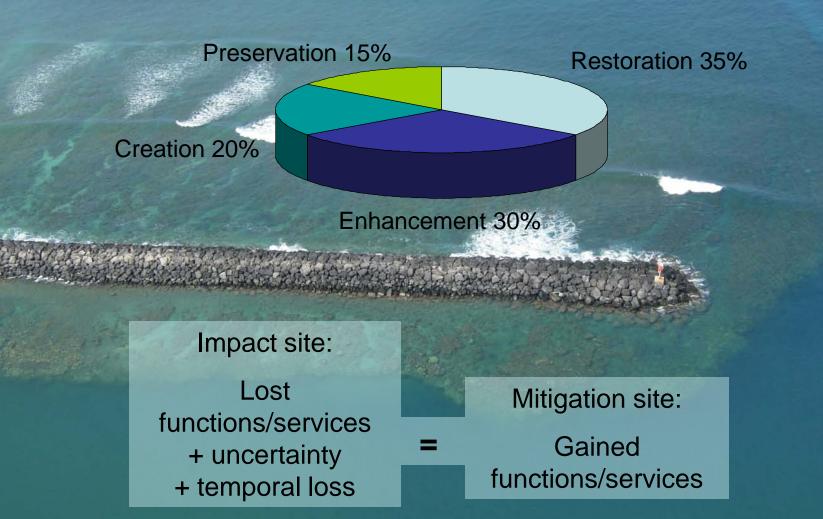


### Q: Is Compensatory Mitigation Successful?

### A: Too often not

- 2001 National Research Council Report
- 2005 FWS-EPA report on coral mitigation
- 2008 COE-EPA Mitigation Rule

### Compensatory Mitigation Approach



# Past Coral Mitigation Projects (before 2008 rule)

 Transplantation Marine Preserve Marine debris removal Mooring buoys Erosion controlreforestation

# Proposed future coral mitigation projects:

- Artificial reefs
- Erosion controlreforestation
- Remove nuisance algae
- Wastewater upgrades
- Transplantation
- Mooring buoys
- Marine preserve

### KILO WHARF, APRA HARBOR

#### MITIGATION

Coral Reef Restoration via Erosion control – Reforestation of 500 acres in Cetti Bay

## **Third Party Mitigation**

### **Mitigation Banks:**

- Initiated before impacts
- Credits given after project is successful
- Sponsored by entrepreneurs
- >450 banks

#### **In-Lieu Fee Programs:**

- Initiated after impacts
- Sponsored by Gov't & Non-profits
- >50 programs