



# Ala Wai Flood Mitigation Alternatives

**DRAFT**



# Summary

- City Council PIG Hired Oceanit to Conduct Community Outreach and Find a Way Forward
  - ✓ Communities Strongly Opposed the Initial USACE Plan
  - ✓ USACE Completed the Fed EIS and announced project
  - ✓ 13 Community Meetings with over 300 People over 6 Months
- SWIFT Design Solution: Result of Community Meetings and Interactions
- Ala Wai Visualization Tool to Better Engage Community and Communicate Options/Solutions

# Background

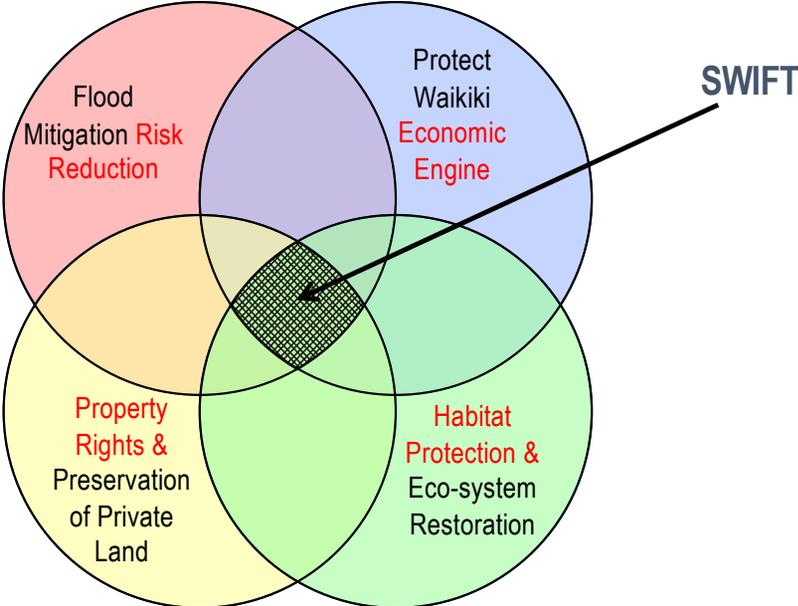
## OBJECTIVE:

- Improve Safety from Low Probability, High Impact Rain Event
- Mitigate risk of flooding Waikiki, overtopping Ala Wai Canal
- Preserve Shared Federal Funds of \$231 million to support costs of the estimated of \$352 million Climate Impact Project

# Results of Community Outreach

- Outreach: 13 meetings with over 300 community members over 6 months
- Communities want more communication
- Communities don't want:
  - Detention basins in upper watershed
  - Flood walls
  - Loss of private property
- In addition to flood mitigation, communities want:
  - Eco-system restoration
  - Detention in golf course and parks
- All agree with flood mitigation
  - Protect Waikiki
  - Not at the expense of the upper and lower watersheds

# Balancing Priorities

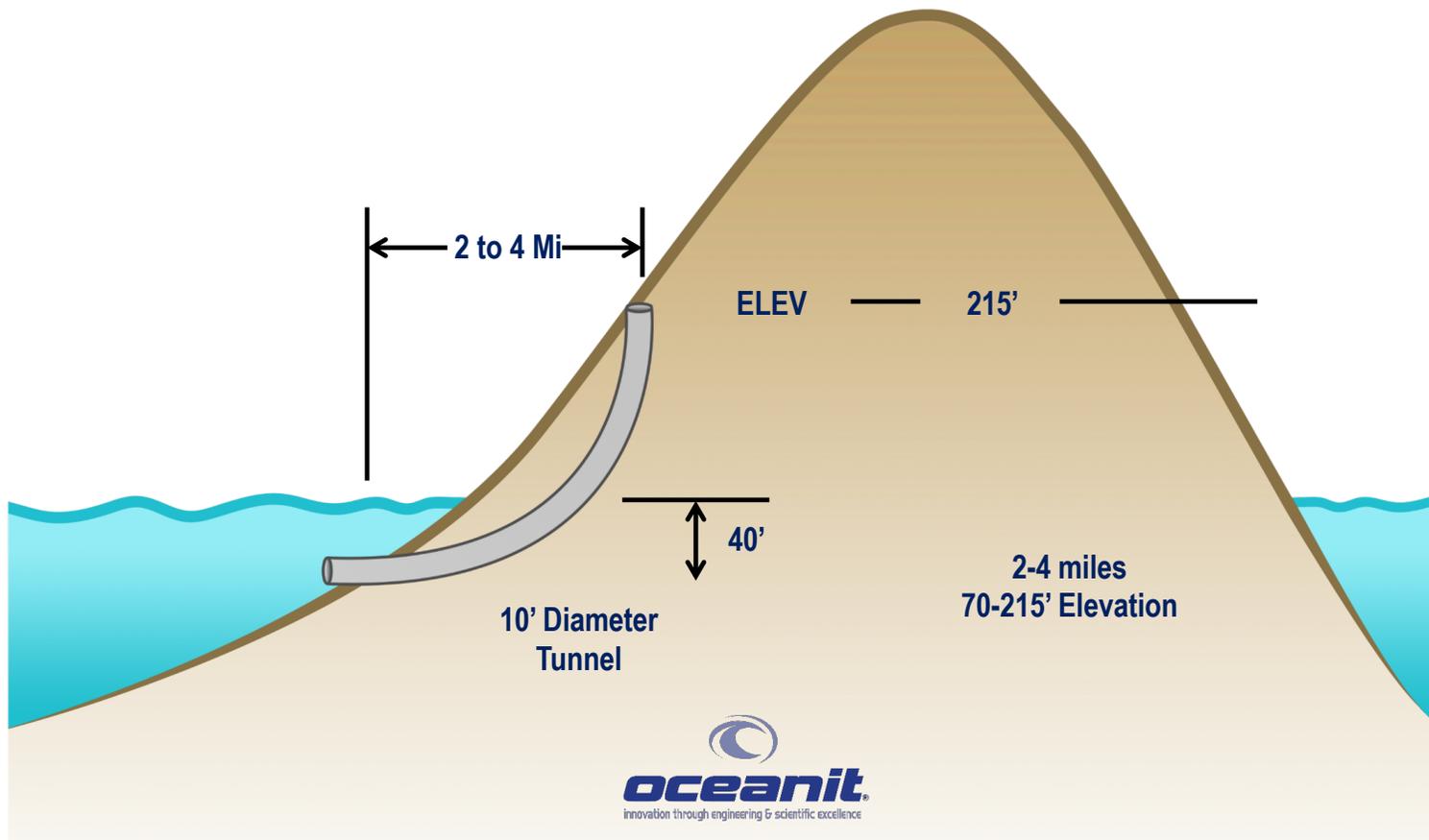


# SWIFT

## (Subsurface Watershed Inundation Flow Technology)

Technology Innovation for Resilient and Sustainable Engineering Solutions

*(Concept Developed as a Result of Community Input)*

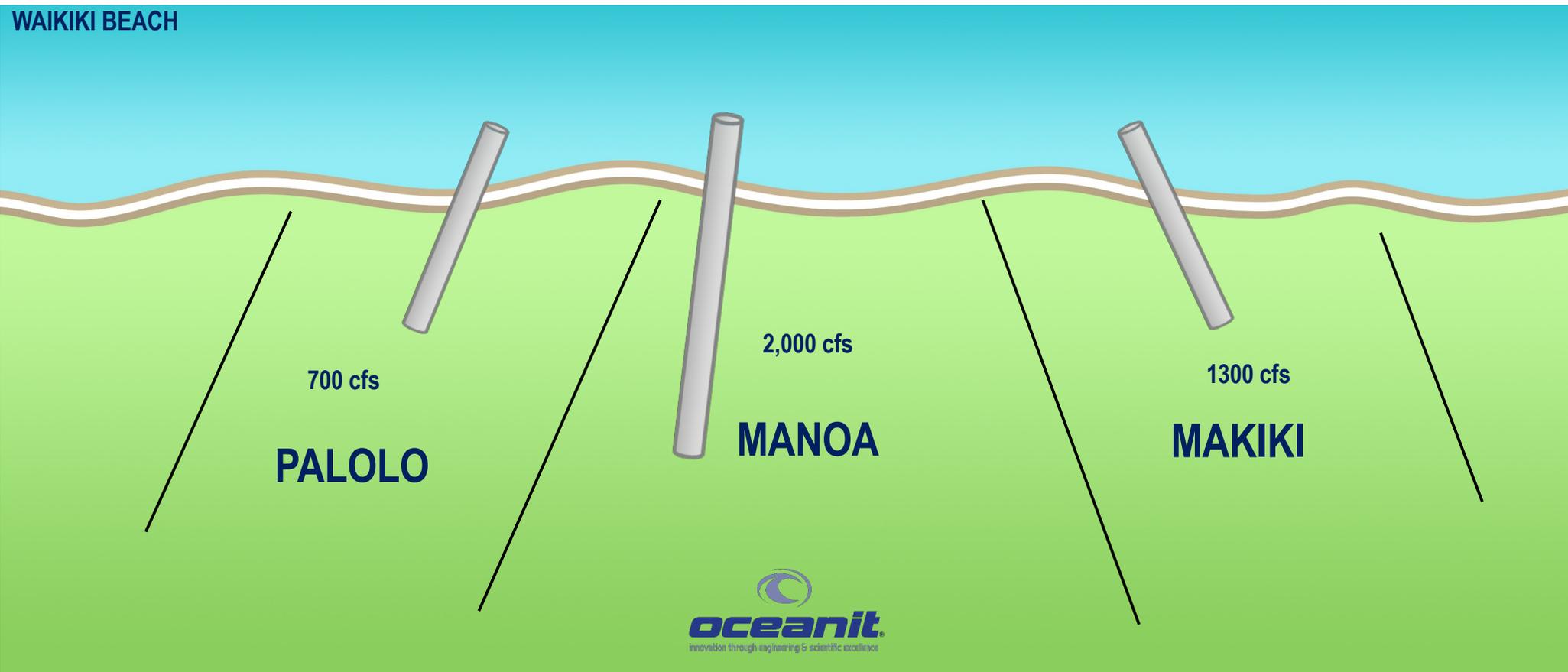


*Preliminary Draft*

# SWIFT

## (Subsurface Watershed Inundation Flow Technology)

*Technology Innovation for Resilient and Sustainable Engineering Solutions*



# SWIFT Goals

- Remove enough water from a 100 year flood event to match that of a 20 year flood event, the current design capacity
- Improve safety
  - ✓ Minimize environmental impact
  - ✓ Increase recreational access and utilization
  - ✓ Minimize effective cost
  - ✓ Maintain Federal funding commitment
- Eliminate or minimize the need for flood walls
- Minimize the use of detention basins
- Eliminate the need to condemn private property