ALA WAI CANAL FLOOD RISK MANAGEMENT PROJECT

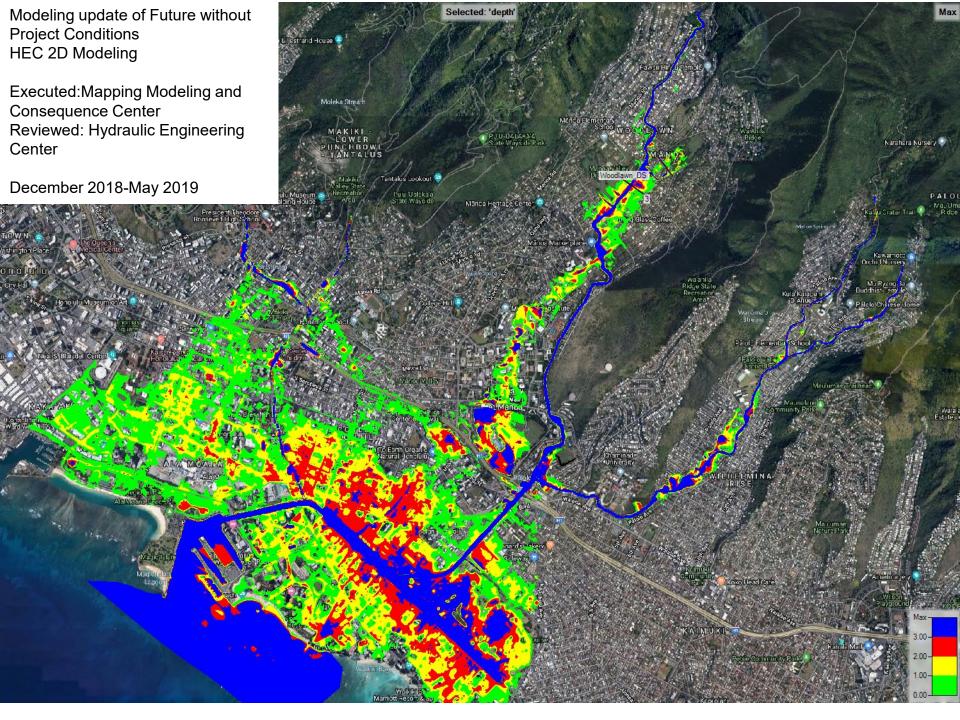
Neighborhood Board

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HEC 1D Modeling:

- Cost efficient to run multiple scenarios
- Run multiple model interations quickly.
- Good to identify at risk areas during an event.
- Works well with HEC (FDA) Flood Damage Assessment Modeling for Economics.
- Uses Cross Sections to determine where the water goes.
- Uses the Peak Flow from the Hydrograph during an event.
- Easy to adjust features within the model and simulate blockages
- Not sufficient for final design and construction

HEC 2D Modeling:

- Provides the full extent of the hydrograph during an event. Runs the ebs and flows of conveyance.
- Uses elevation and terrain in lieu of cross sections.
- Provides inundation depths during an event.
- Very effective for Design refinement.
- Very sensitive to changes, requires time to develop. Once an iteration is developed, four hours per run.
- Expensive to run on multiple iterations and alternatives. Resource intensive.
- Easy to adjust features within the model and simulate blockages

Ala Wai Industry and Innovation Day 2019 June 17, 2019 107 People beyond Corps of Engineers

Organizations:

3 Native Hawaiian Owned

26 AE Contractors

23 Construction

8 Educational Organizations

5 Non-Profit including:

Ala Wai Watershed Association Ala Wai Watershed Collaboration Ala Wai Centennial Stop Ala Wai





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