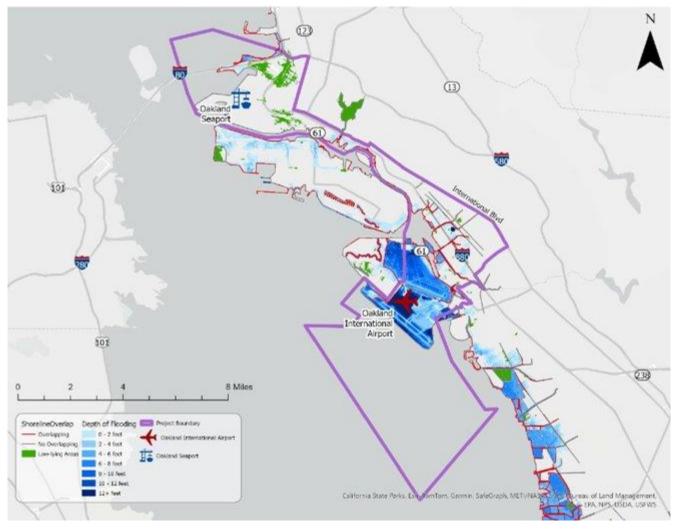
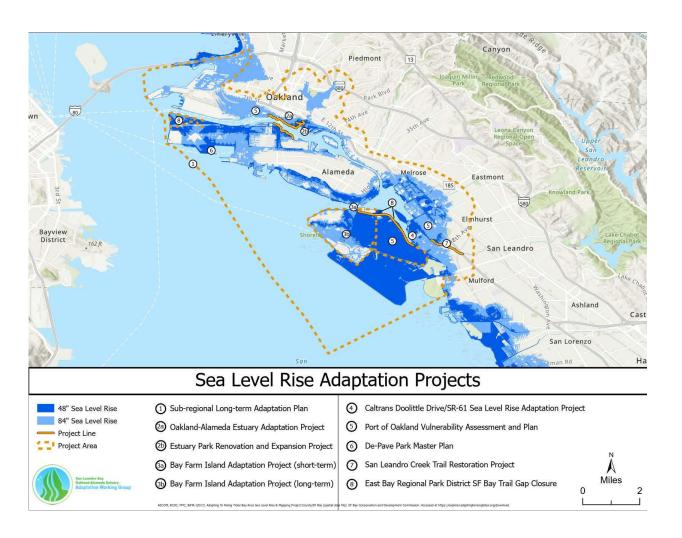


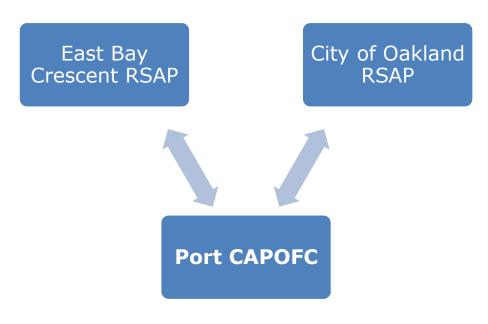
# Port of Oakland Sea Level Rise & Groundwater Intrusion Study

- Title: Climate Adaptation Planning for Oakland's Frontline Communities (CAPOFC)
- \$3 million Caltrans grant
- Scope: detailed sea level rise modeling and adaptation planning across the entirety of Oakland's shoreline.
- Partnership-focused approach-City of Oakland and other stakeholders.

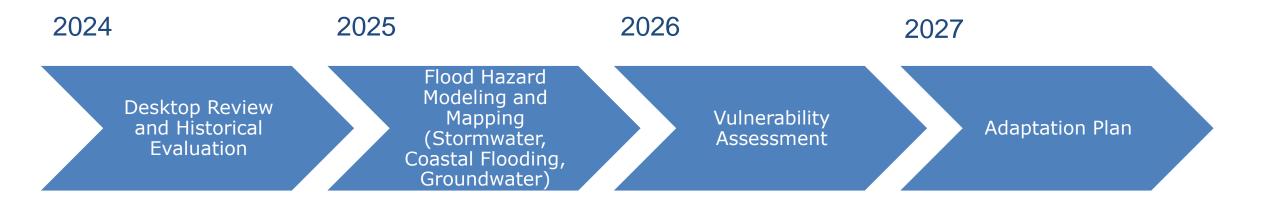


#### Regional and Inter-Jurisdictional Planning





### **CAPOFC Project Timeline**

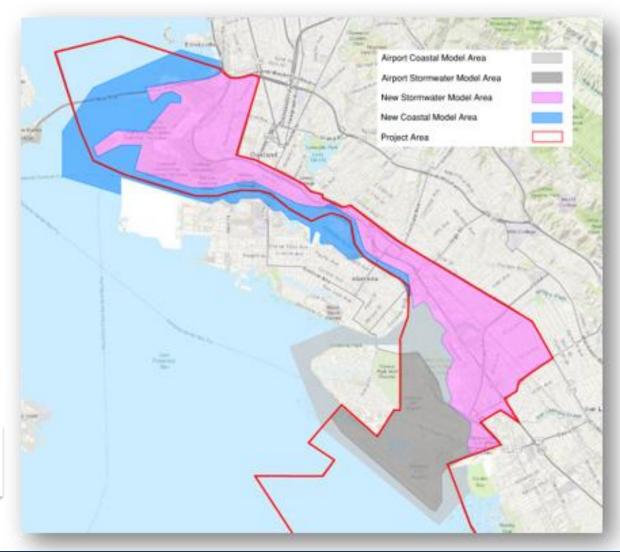


Stakeholder Engagement

#### **Coastal and Stormwater Modeling**

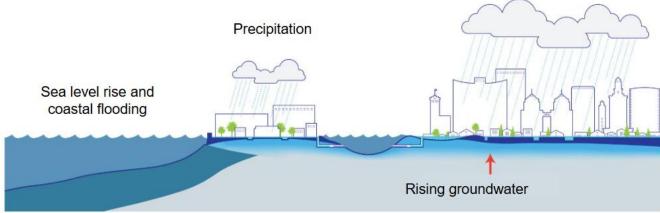
- Evaluate tidal and precipitation flood hazards
- Evaluate current and future climates
  - Sea level rise
  - Increased precipitation

Combined maps- GIS Layers showing extent and depth of flooding

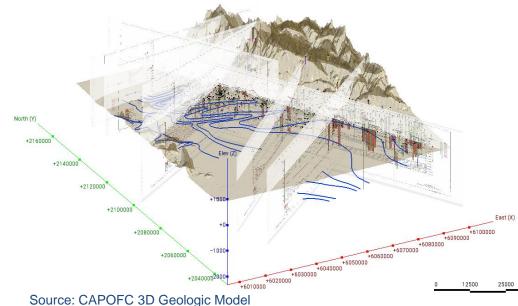


#### **Groundwater Model**

- Develop 3D Geologic model
  - Geo reports, cross sections, contours
  - Boreholes, groundwater well logs
  - Hydraulic properties
  - Tidal data
  - Stream and groundwater pumping data
  - More!
- Groundwater flow models
- Current & future climates
  - SLR
  - Increased precipitation
- 1. GIS layers showing depth to groundwater, and emergent groundwater
- 2. Will combine with Coastal & Stormwater models to view aggregate flooding scenarios

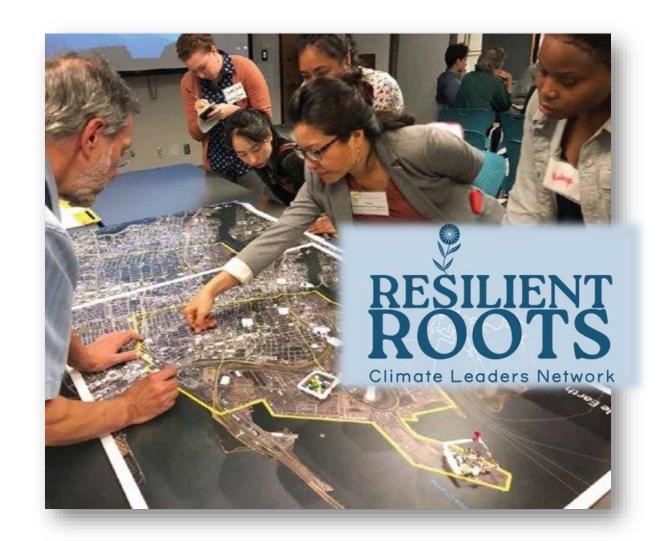


Source: OAAC Adapt Community Engagement Workshop December 2024



#### **Next Steps**

- Kick-off Stakeholder Engagement
- Complete SLR modeling
- Vulnerability Assessment
- Adaptation Plan



## **Zero Emission Projects Underway**

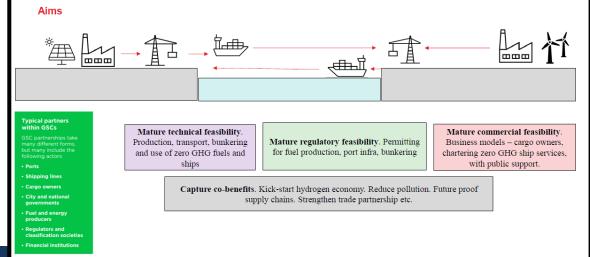
- Clean Ports Program, U.S. EPA: \$322M to convert nearly 100% of all Port cargo handling equipment and over 400 drayage trucks to ZE technologies.
- Clean Heavy-Duty Vehicle Program, U.S. EPA: \$10.5M to replace 60 Class 6 UPS delivery trucks with ZE battery vehicles and install chargers in Oakland, San Francisco, and Richmond.
- Green Power Microgrid Project, CA
   Transportation Commission: \$42M to
   increase the port's ability to deliver green-sourced power to its seaport operations.



#### **Environmental Studies & Initiatives**

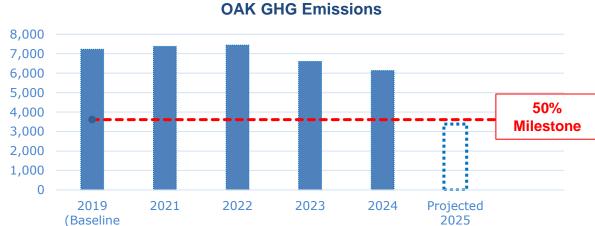
- Zero Emission Construction
   Equipment Program
- Zero Emission Plan
- Hydrogen use case study
- Green Shipping Corridor
- Sustainable Aviation Fuel (SAF)





#### **Port Environmental Accreditations**







## Sustainability Management Plan



