Sea level rise adaptation challenge: community resilience
Our watery history

Flood experience, lots of it....
Help!
I need somebody,
not just anybody...
Legacy of development

Our communities....and their risks in the future
Historical wetlands in the north bay
Three feet of sea level rise
Is it really that bad?

We can fix it, right?
Marin’s SLR Vulnerability Assessment

COMPLETED JUNE 2017
ASSETS AND COMMUNITY PROFILES

• Assets
  o Parcels and buildings
  o Roads and waterways
  o Water, wastewater, stormwater, gas, electricity, and telecommunications
  o Agriculture
  o Habitats and wildlife
  o Recreation and public access
  o Emergency services
  o Historic and archeological resources

• Communities
  o 11 Cities and towns
  o Unincorporated areas
Impacts will extend beyond the flooded shoreline edge and will change our county in the future

- Transportation, emergency services, water, sewer and other utilities, as well as many neighborhoods, commercial areas, and public areas like beaches, wetlands and our access to the water
Figure 1. Map of Marin County and the wildland urban interface boundaries (red).
We rise together

The time is now
Adaptation projects in Marin

- Marin Adaptation Framework
  Evaluates the shoreline by landscape units rather than jurisdictions to identify nature-based options best suited to protect from sea level rise. October 2019

- Adaptation land use planning
  Guidance on the land use planning tools available to adapt to sea level rise

- Public works planning for local jurisdictions and agencies
  Identifies infrastructure and other capital improvement projects that can support adaptation.

- Green, nature-based projects
  Restoring and constructing wetlands and beaches (Deer Island, McInnis, Bothin, and Richardson Bay, Tiscornia by Marin Audubon)
Adaptation projects in Marin

- Marin Adaptation Framework
  Evaluates the shoreline by landscape units rather than jurisdictions to identify nature-based options best suited to protect from sea level rise. October 2019

- Adaptation land use planning
  Guidance on the land use planning tools available to adapt to sea level rise

- Public works planning for local jurisdictions and agencies
  Identifies infrastructure and other capital improvement projects that can support adaptation.

- Green, nature-based projects
  Restoring and constructing wetlands and beaches (Deer Island, McInnis, Bothin, and Richardson Bay, Tiscornia by Marin Audubon)
Adaptation projects in Marin

- Marin Adaptation Framework
  Evaluates the shoreline by landscape units rather than jurisdictions to identify nature-based options best suited to protect from sea level rise. October 2019

- Adaptation land use planning
  Guidance on the land use planning tools available to adapt to sea level rise

- Public works planning for local jurisdictions and agencies
  Identifies infrastructure and other capital improvement projects that can support adaptation.

- Green, nature-based projects
  Restoring and constructing wetlands and beaches (Deer Island, McInnis, Bothin, and Richardson Bay, Tiscornia by Marin Audubon)
Adaptation projects in Marin

• Marin Adaptation Framework
  Evaluates the shoreline by landscape units rather than jurisdictions to identify nature-based options best suited to protect from sea level rise. October 2019

• Adaptation land use planning
  Guidance on the land use planning tools available to adapt to sea level rise

• Public works planning for local jurisdictions and agencies
  Identifies infrastructure and other capital improvement projects that can support adaptation.

• Green, nature-based projects
  Restoring and constructing wetlands and beaches (Deer Island, McInnis, Bothin, and Richardson Bay, Tiscornia by Marin Audubon)
THANK YOU!

Chris Choo, Principal Planner, 415-473-7586
Marin County Dept. of Public Works