

Draft



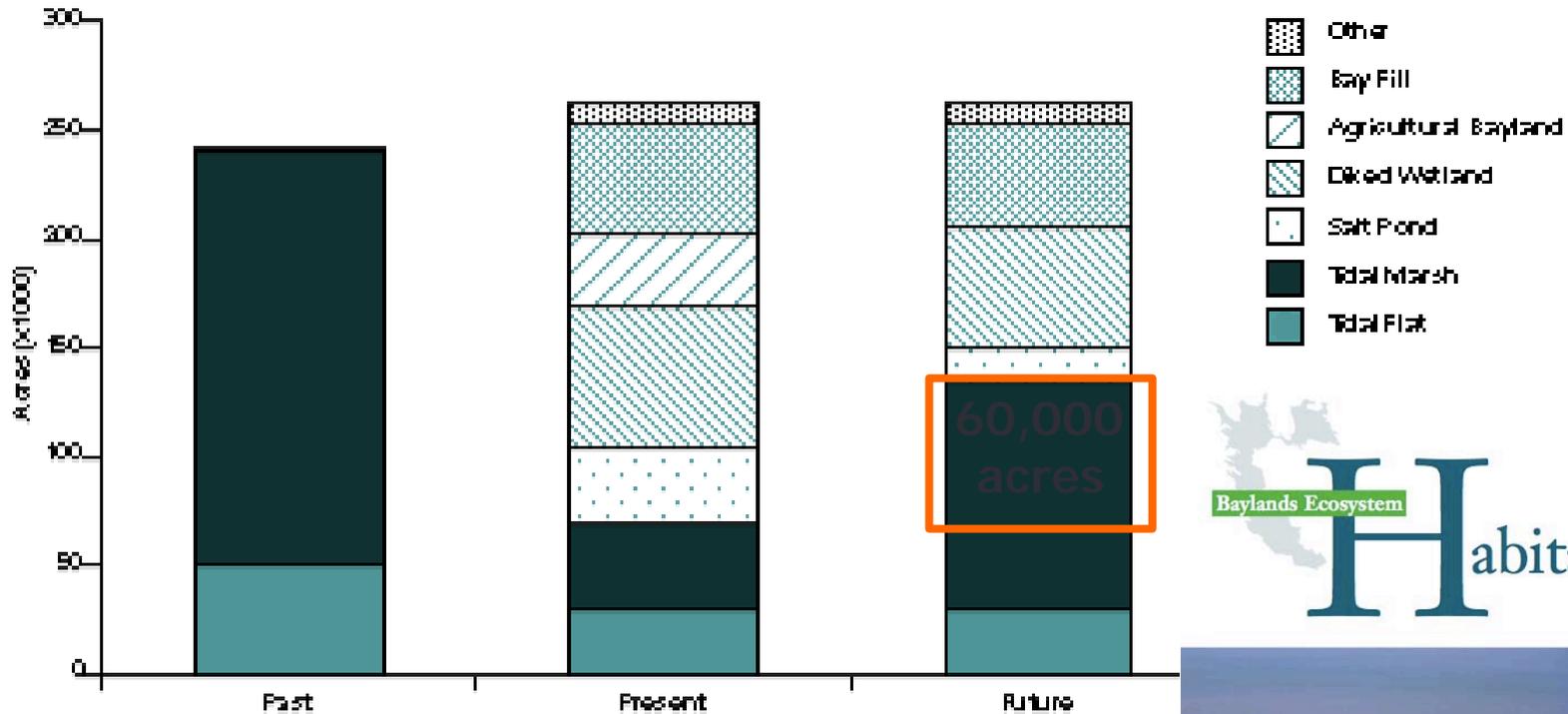
Wetland Data from SFD includes: BAAMI (2005, v1.5-4b (1997 and 1850), and wetland tracker data (2020).



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FIGURE 5.1 Past, Present, and Recommended Future Bayland Habitat Acreage for the Region





The Baylands Ecosystem Habitat Goals Science Update

- ▶ Science synthesis and recommendations
- ▶ Effect of future change, especially climate change, on the Baylands. Drivers Assessed:
 - Sea level rise
 - Rising Temperature
 - Changes in Precipitation
 - Sediment supply
 - Freshwater inflows
 - Salinity
 - Nutrients
- ▶ Processes and functions in addition to habitat
- ▶ Planned for release in mid 2015



Regional Vision

▶ **Near-Term**

- A diverse, connected mosaic of Baylands and adjacent habitat types
- Complete tidal wetlands ecosystems
 - ▶ mudflats, low marsh, marsh plain, high marsh, natural levees along channels, and broad transition zones

▶ **Long-Term**

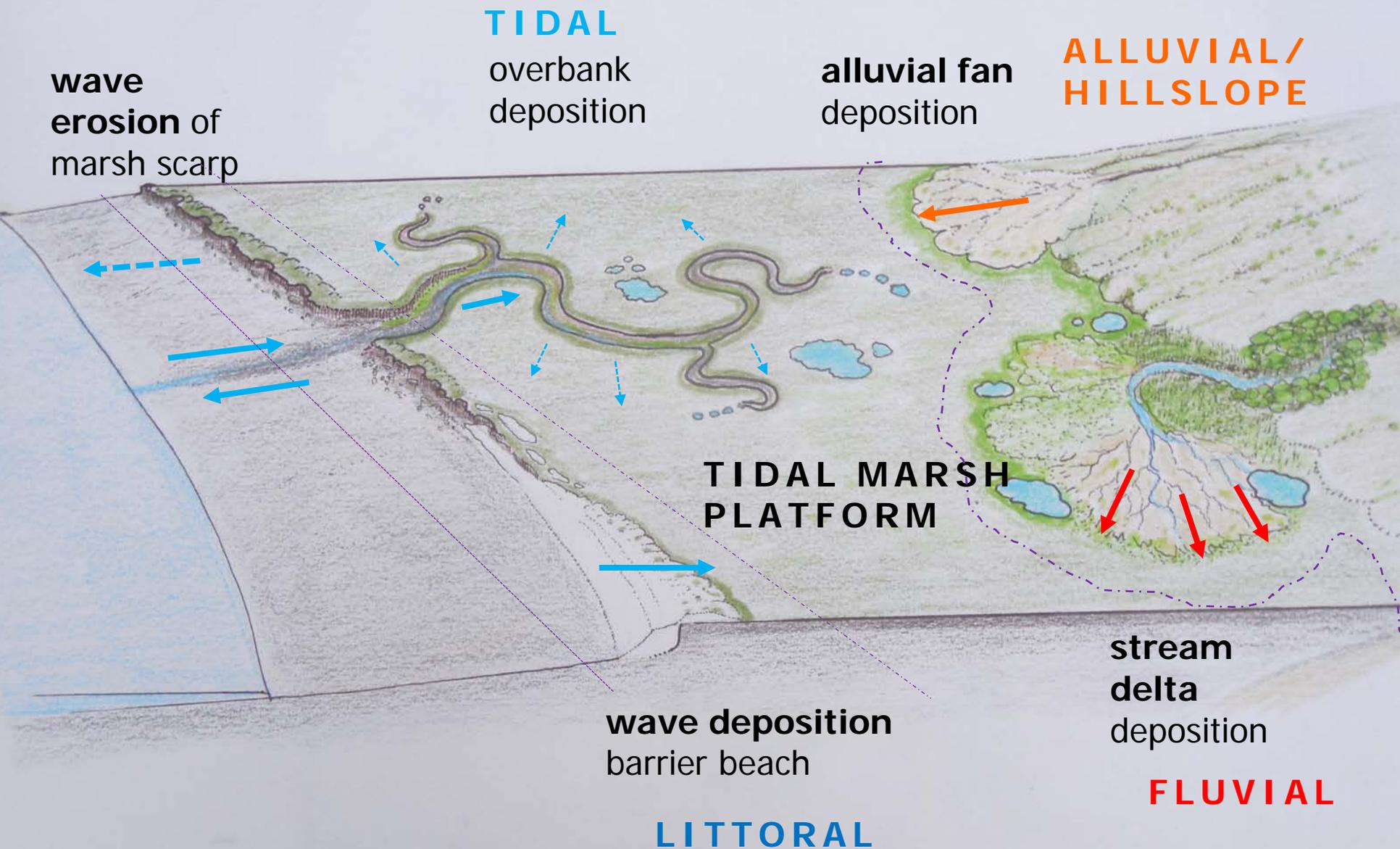
- Viable Baylands habitat mosaics migrating landward in open spaces or up low-slope levees
- Loss of habitat extent offset by better connectivity and management of stressors



Recommendation Highlights

1. Restore estuary-watershed connections that nourish the Baylands
2. Design complexity and connectivity into the Baylands landscape
3. Increase coordination among Baylands stakeholder organizations
4. Create plans that factor in ecological outcomes after extreme events and other disasters
5. Engage the citizenry in advocating for the Baylands

Through functioning natural processes that confer resilience...





Regional Recommendations

- 1 Restore estuary-watershed connections.
- 2 Design complexity and connectivity into the Baylands landscape.
- 3 Restore and conserve complete tidal wetlands systems.
- 4 Restore Baylands to full tidal action prior to 2030.
- 5 Plan for the Baylands to migrate.
- 6 Actively recover, conserve, and monitor wildlife populations.
- 7 Develop and implement a comprehensive regional sediment management plan.
- 8 Invest in planning, policy, research and monitoring.
- 9 Develop a regional transition zone assessment program.
- 10 Improve carbon management.

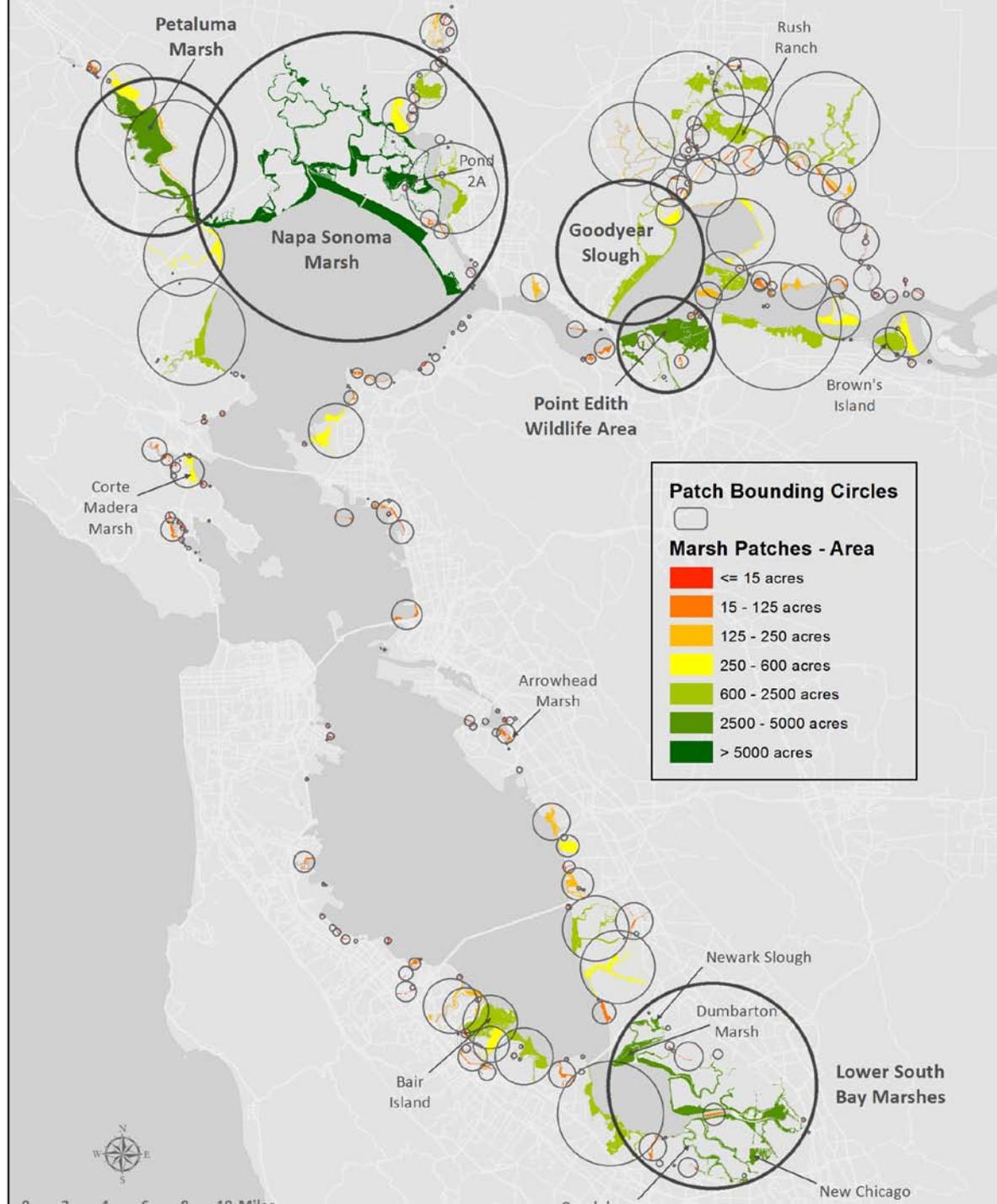


Restore Watershed-Estuary Connections that nourish the Baylands

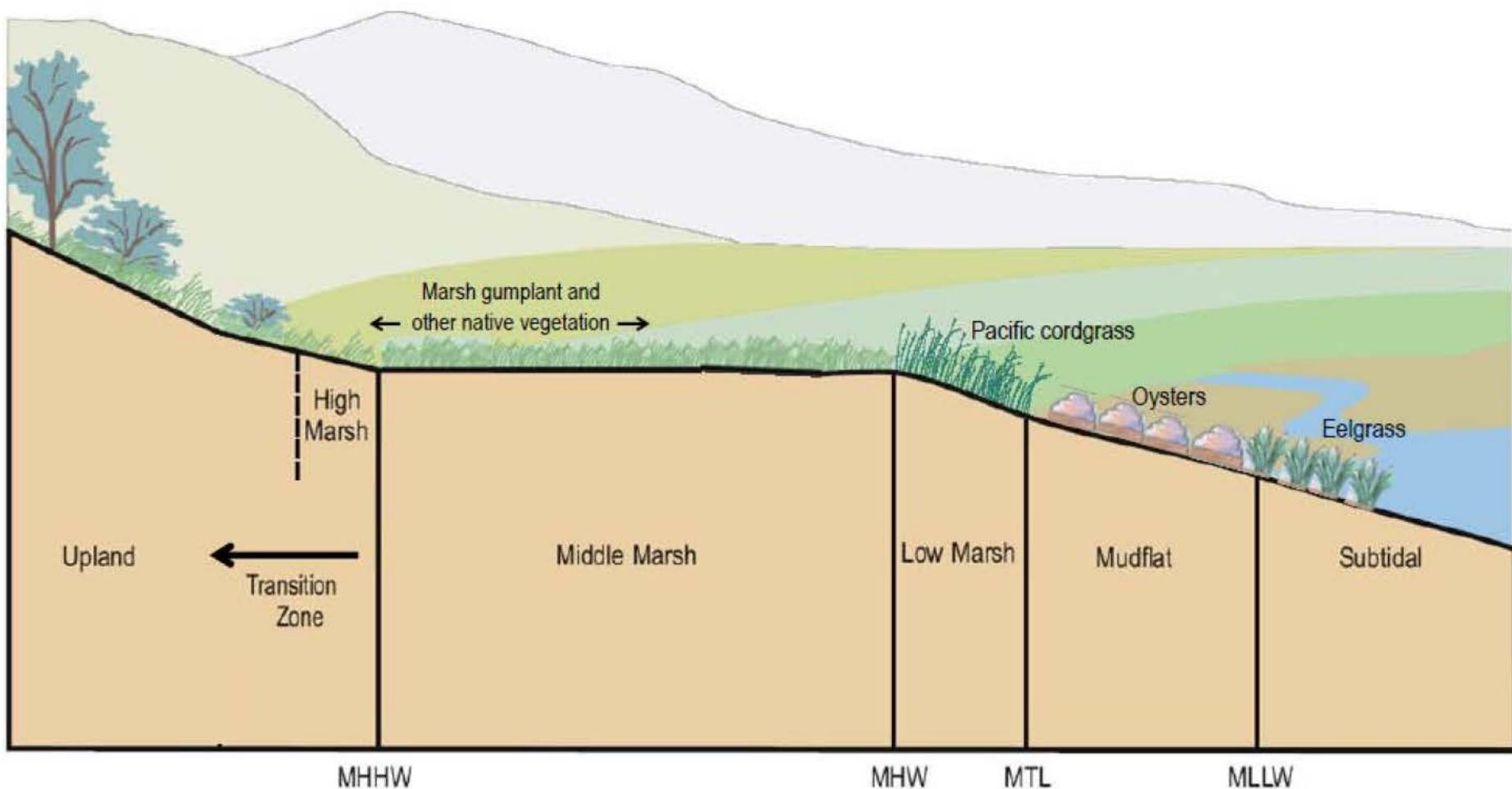




Design complexity and connectivity into the Baylands landscape

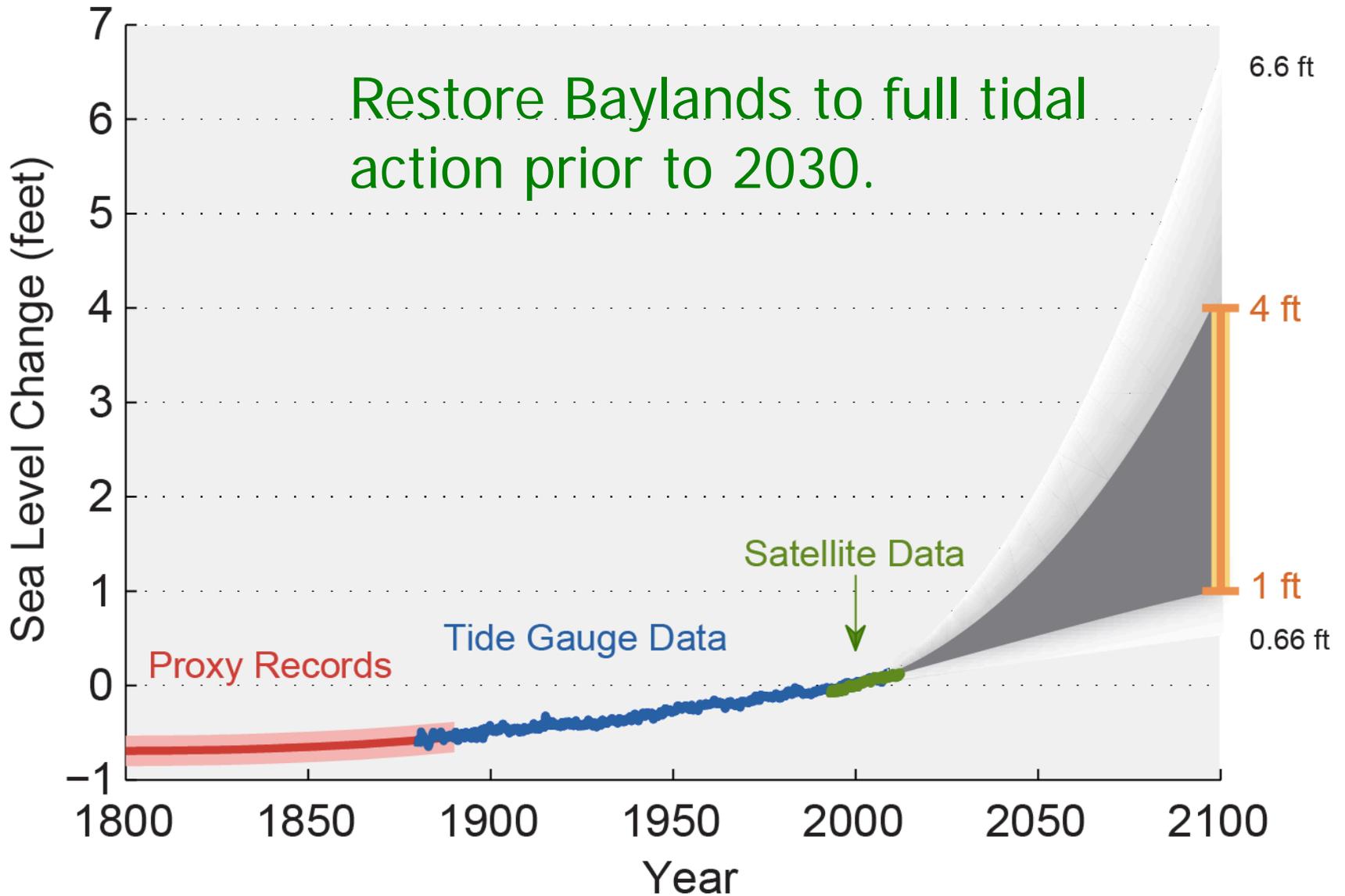


Restore and conserve complete tidal wetland systems...





Past and Projected Changes in Global Sea Level

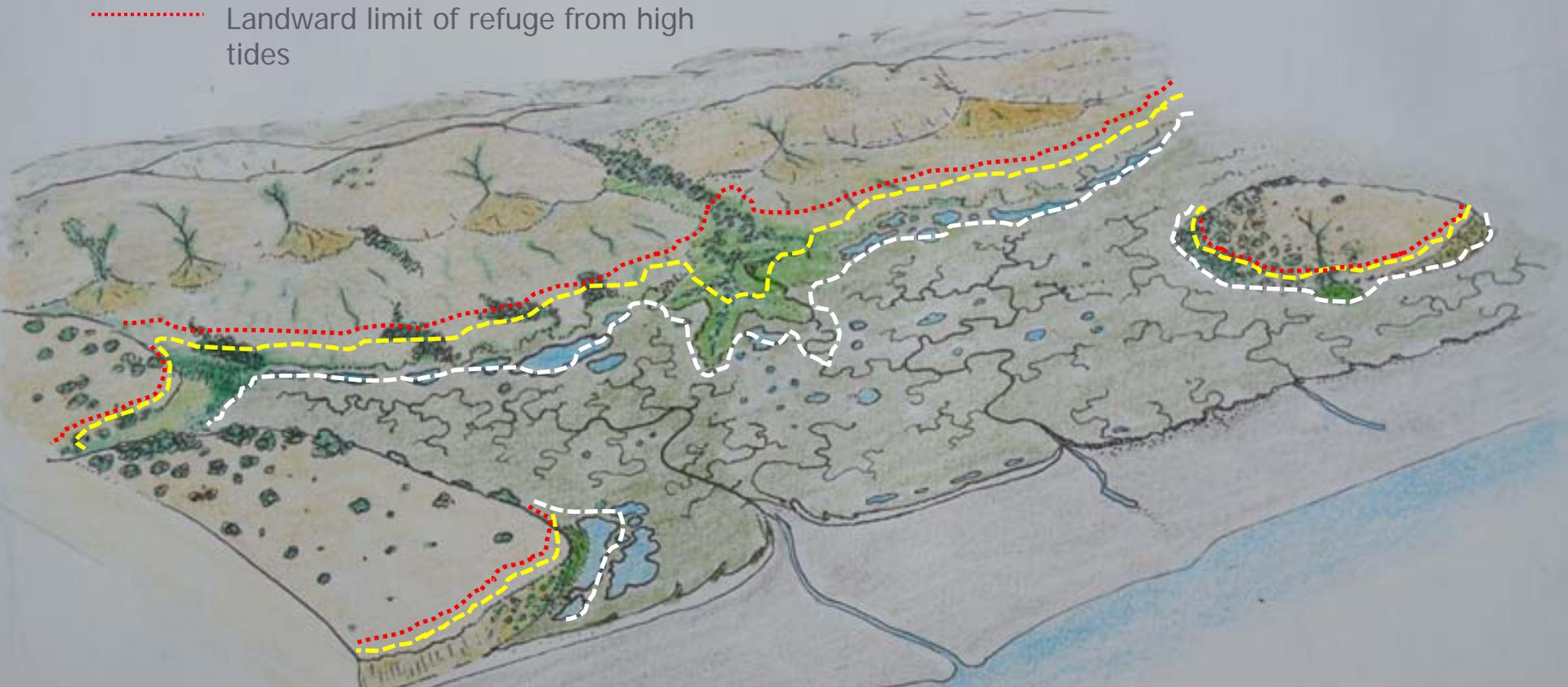




► Plan for the Baylands to Migrate

► Assess, Restore and Enhance Transition Zones

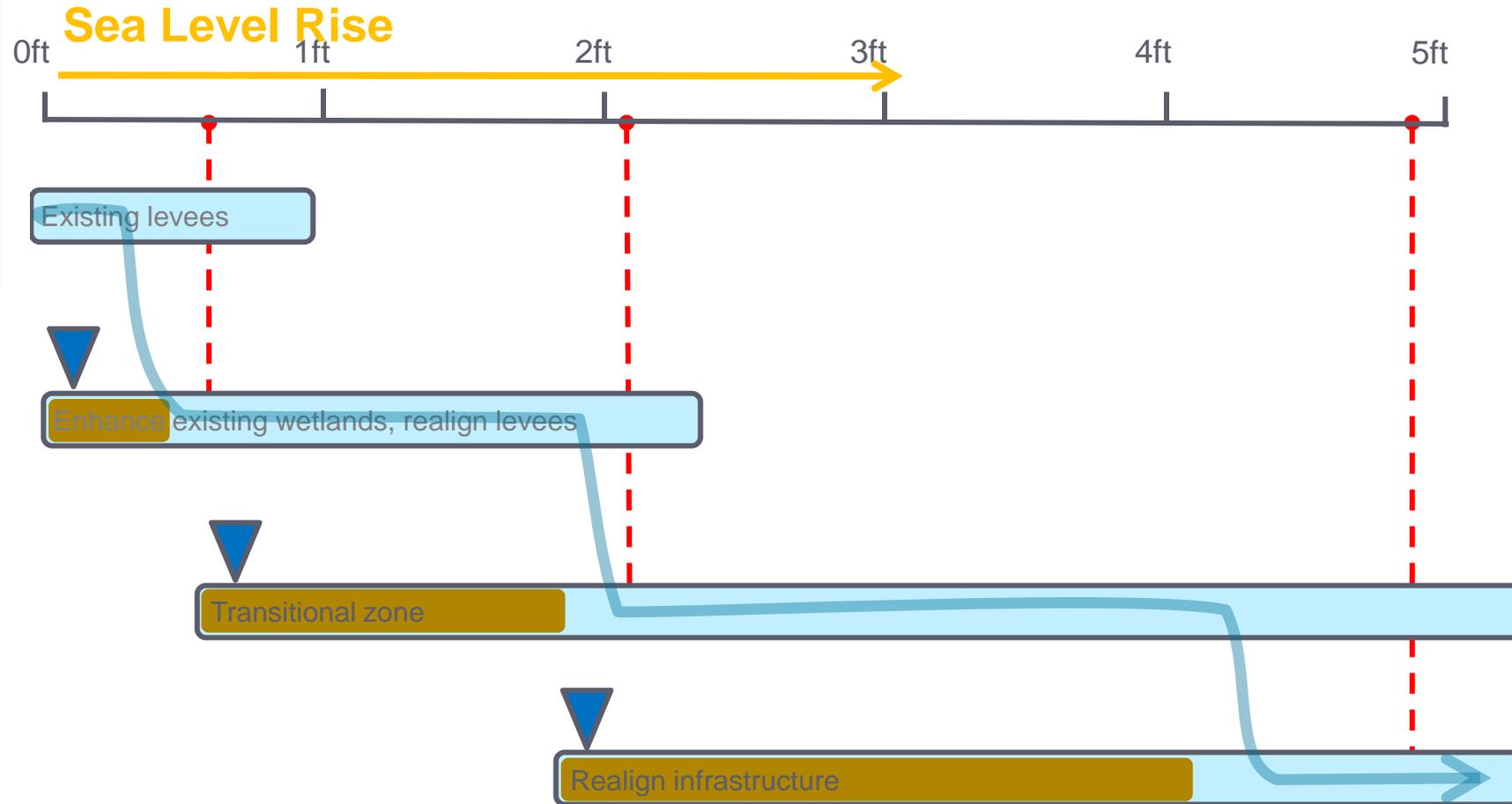
- Landward limit based on vegetation
- Bayward limit based on vegetation
- ... Landward limit of refuge from high tides



► Better manage and reuse sediment via Regional Sediment Management Planning



An Adaptation Strategy?



Threshold Decision Lead Time Strategy Effective

--- Threshold ▼ Decision [Lead Time] Lead Time [Strategy Effective] ve