Project Purpose & Partners



1.

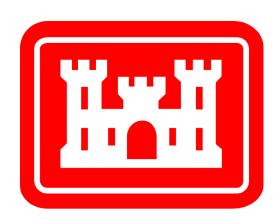
Develop long-term shoreline erosion protection design to protect the highway, drainage district, maximize protection of private lands

2.

Demonstrate shoreline protection concept is successful

3.

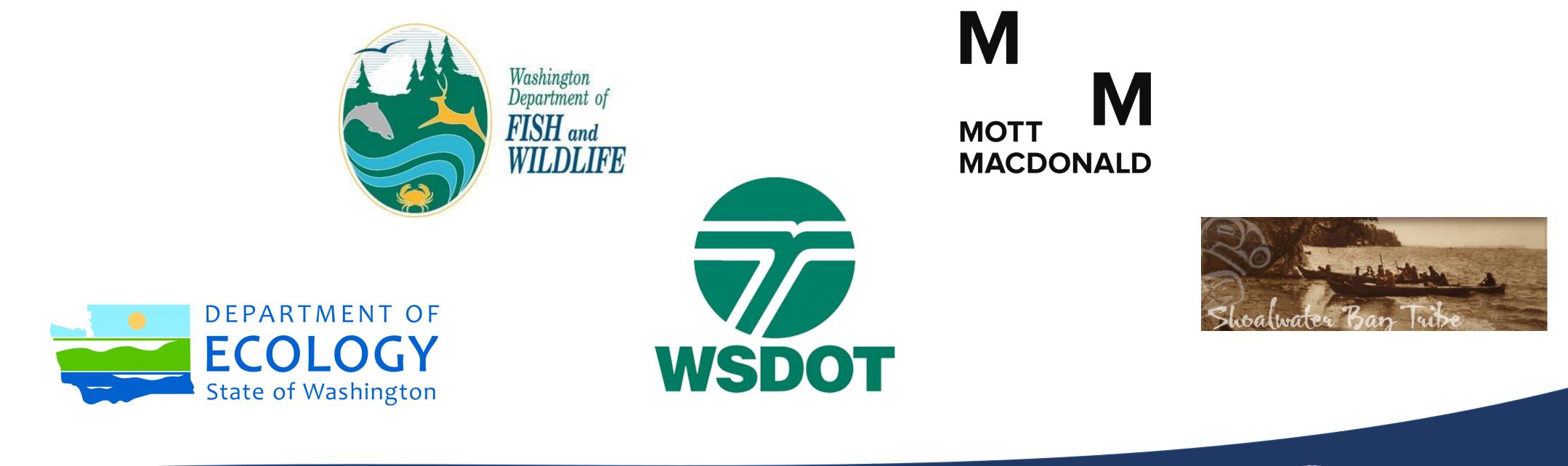
Develop masterplan and guidance for implementation of the next phase of shoreline erosion protection







US Army Corps of Engineers®







North Cove Vicinity Projects

Existing Protection and On-Going Projects



Stabilization project

USACE Shoalwater Bay Dune Restoration project





Revetment (on-going)

Photo Courtesy of David Cottrell

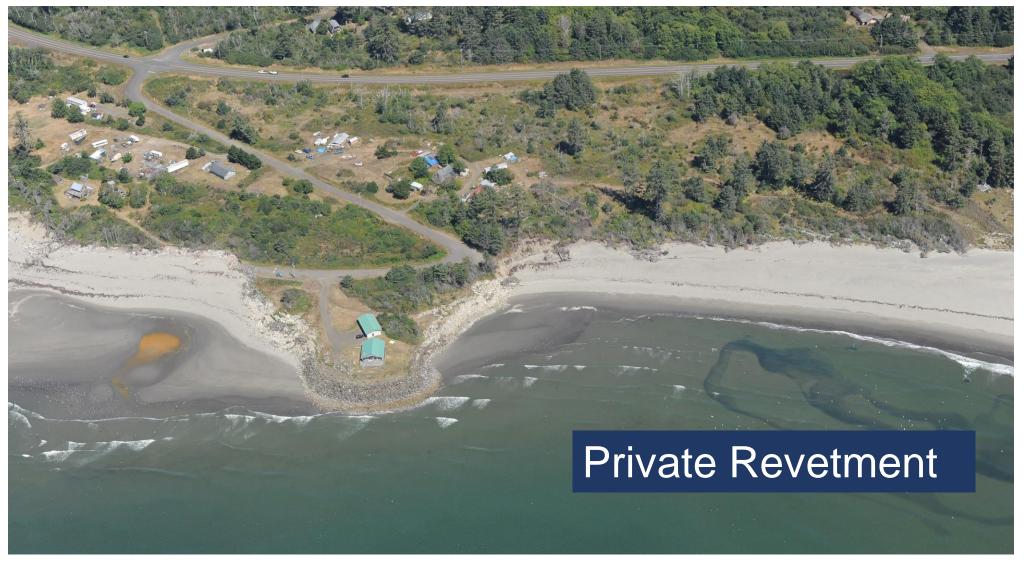


Photo Courtesy of Washington Coastal Atlas, WA Ecology, August, 2016

Stabilization project

Photo Courtesy of WSDOT, October 2018

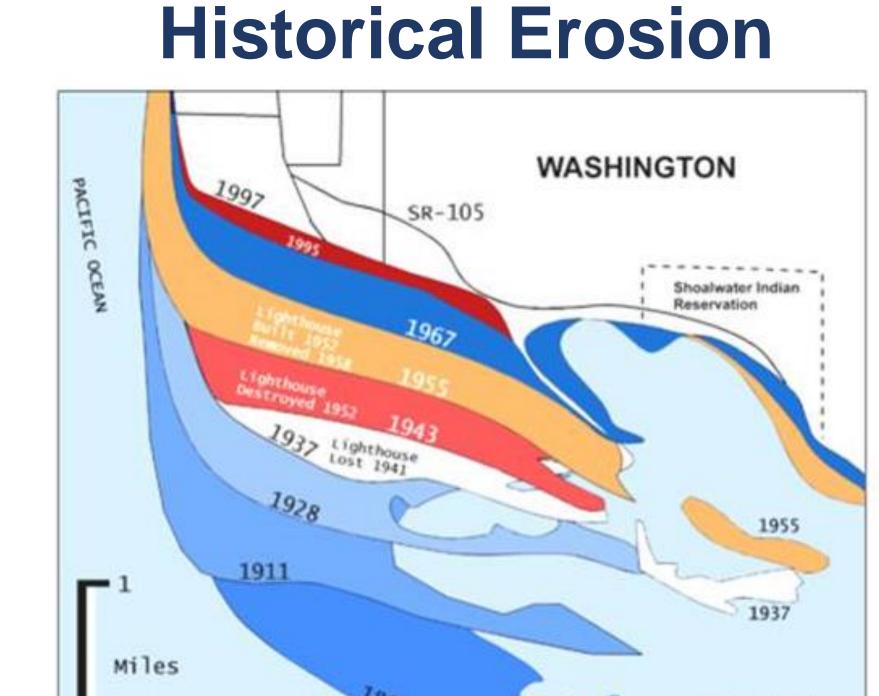


Photo Courtesy of Ross Island Sand and Gravel



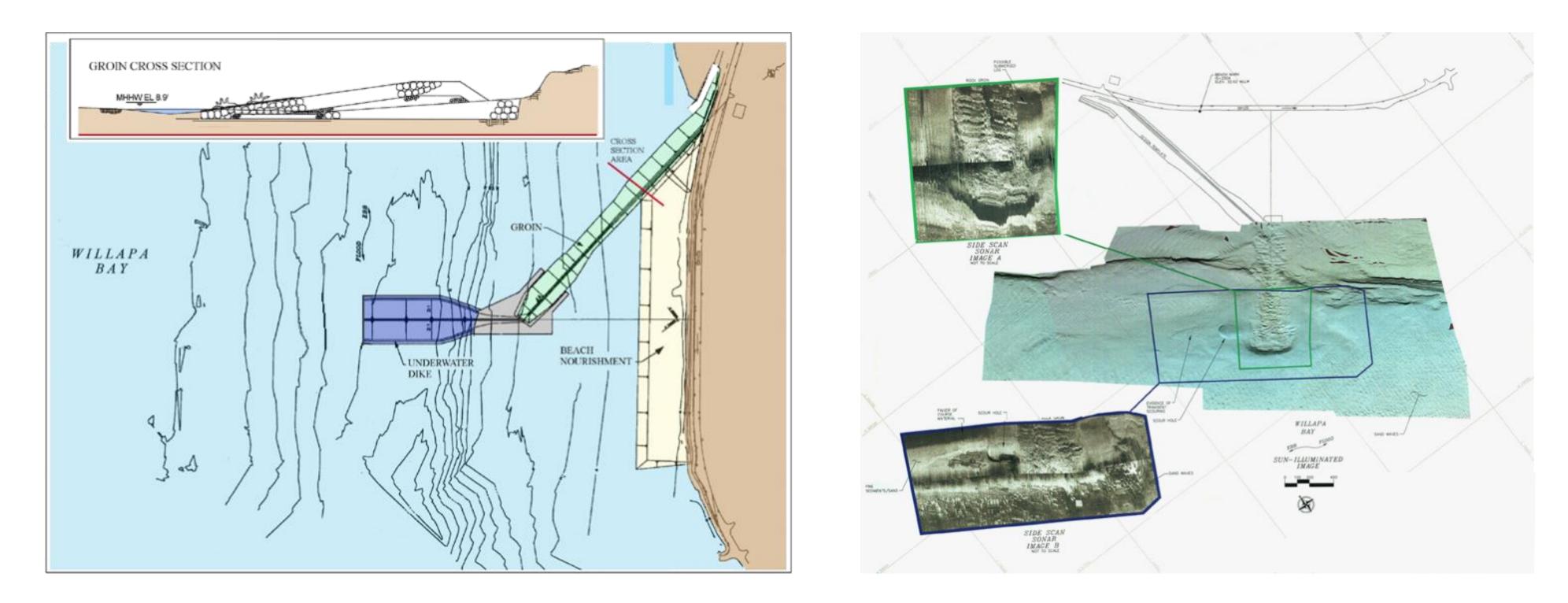


Project History





1998 Construction



Bathymetry: 1997-2018

2018 Status

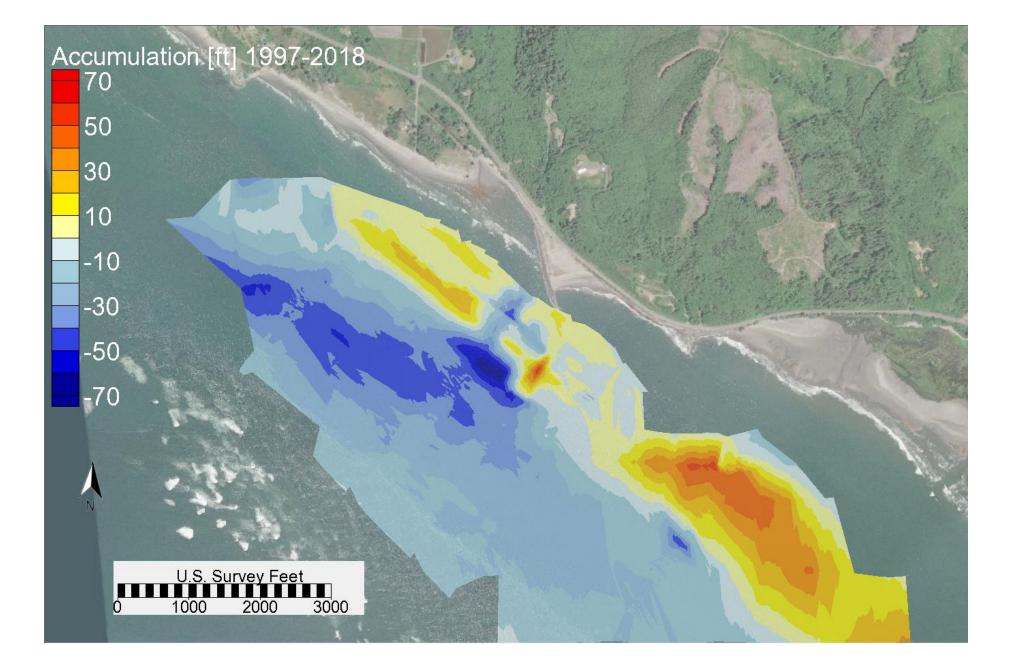


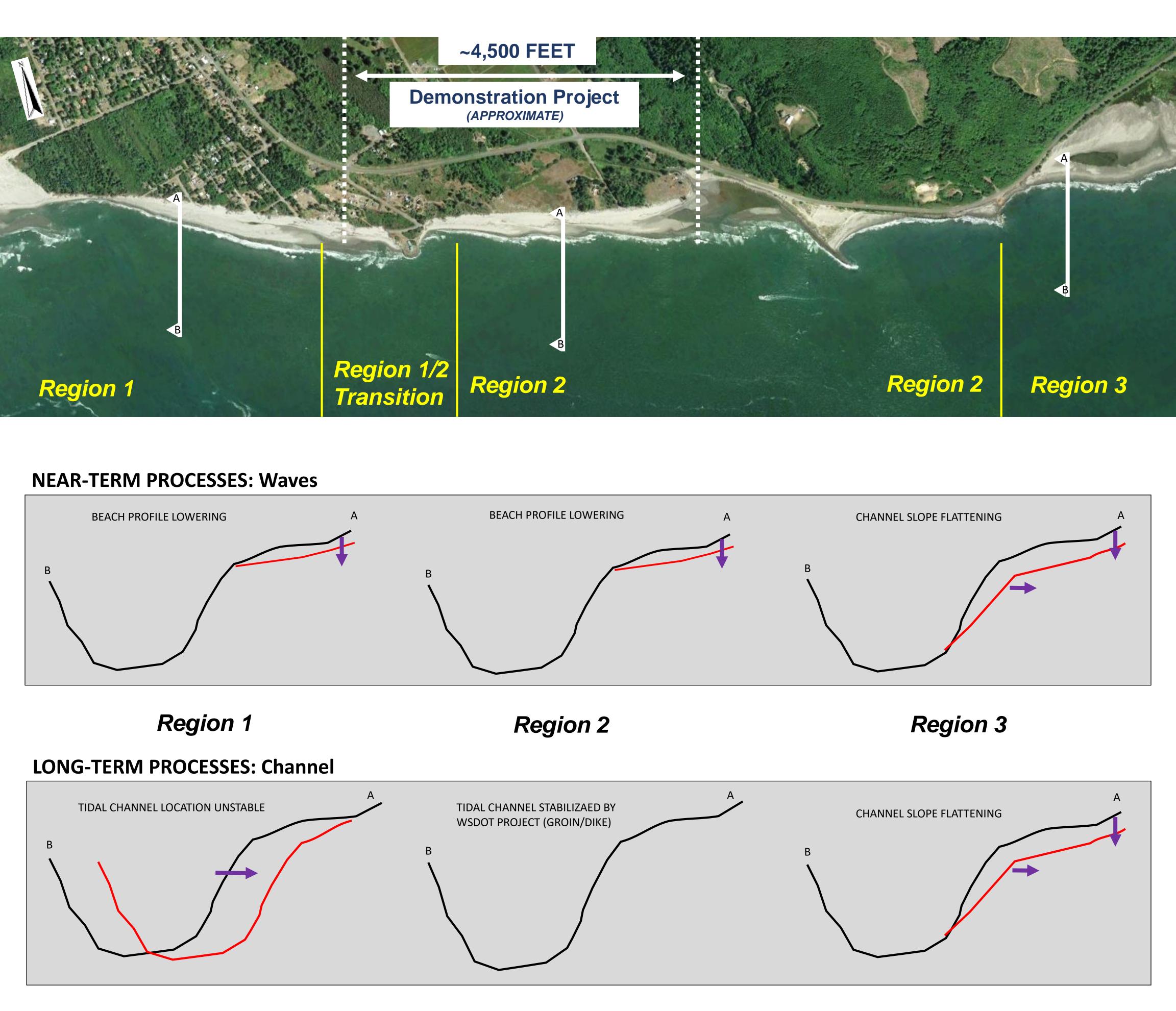


Photo Courtesy of WSDOT, October 2018





Coastal Processes



LONG-TERM ASSESSMENT

Predominantly controlled by channel tidal northward migration, also susceptible to wave induced erosion

Erosive shoreline subject to impact from waves and localized hydrodynamic effects

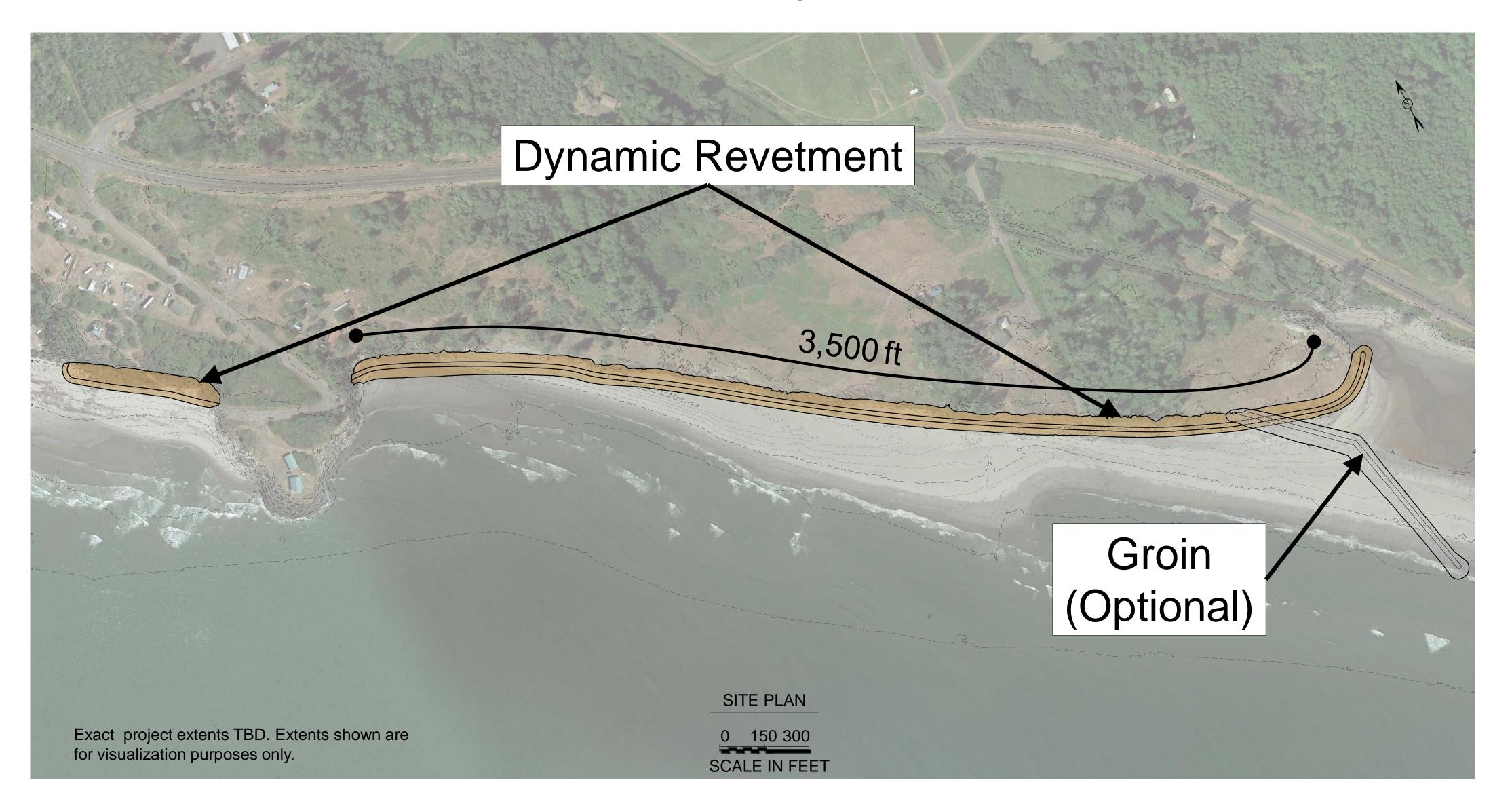
Deepening of landward slope provided increased wave energy to shoreline





Preferred Alternative

Demonstration Project Plan View



Dynamic Revetment Cross-Section

