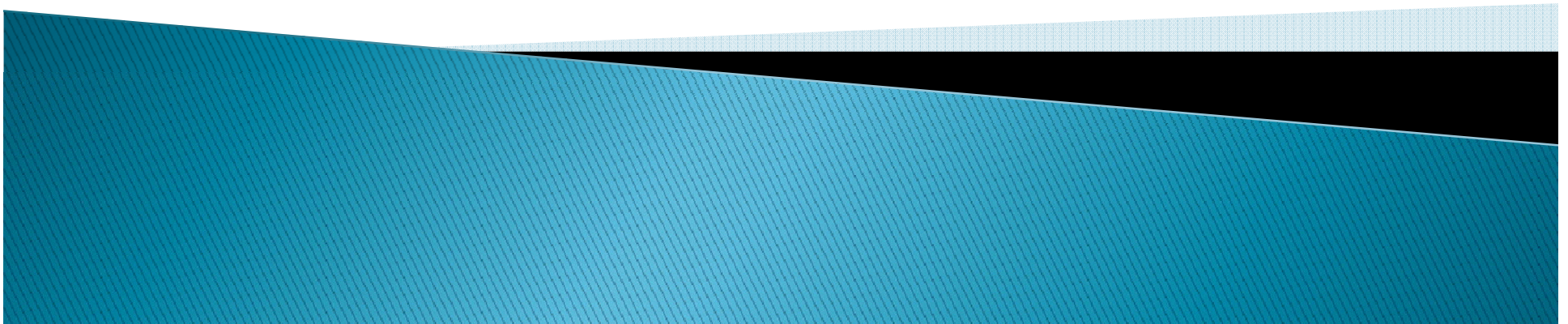


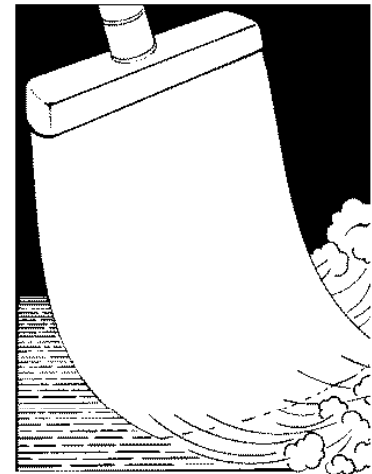
Brainstorming for Collaboration

Presented by
Jim Haussener, CMANC

April 30, 2010

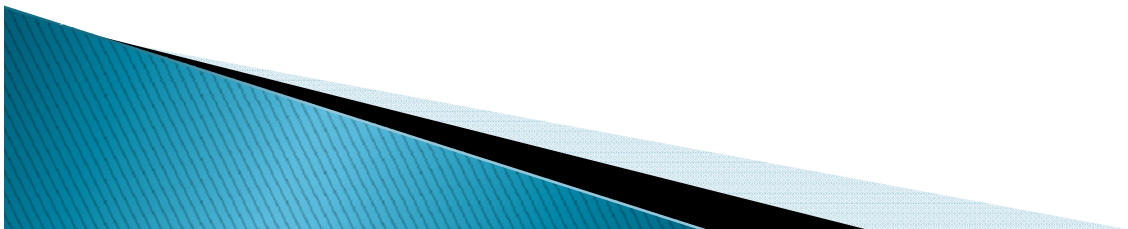


- My Role



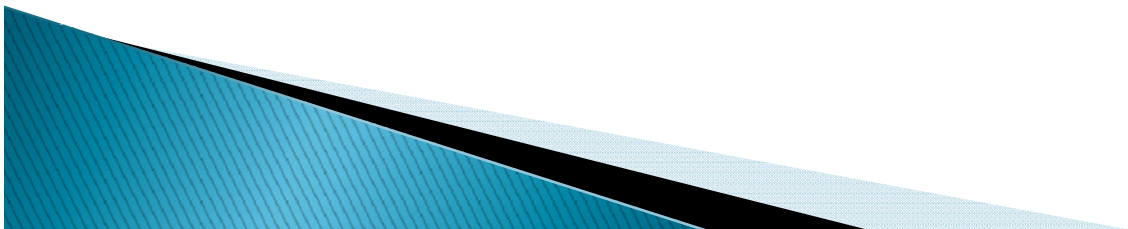
Be Involved

- ▶ Costs have gone from 25 cents to 14 dollars per cubic yard in my career for marinas with in-bay placement
- ▶ Regulatory development is part of the cost increase



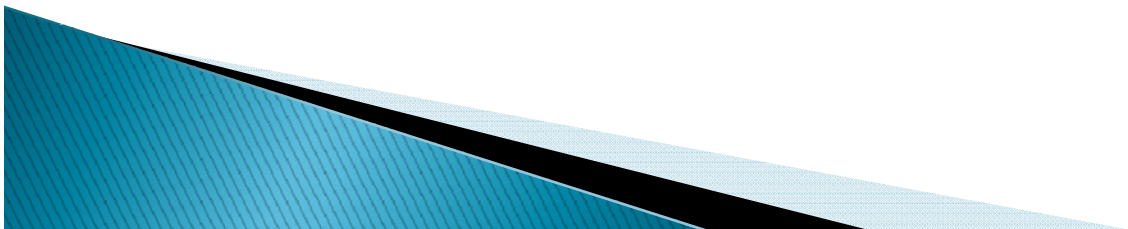
Be Involved II

- ▶ LTMS Small dredge exemption and allocation
- ▶ TMDLs
- ▶ ESA
- ▶ CESA – Longfin Smelt
- ▶ Essential Fish Habitat
- ▶ Sub-tidal Habitat Goals



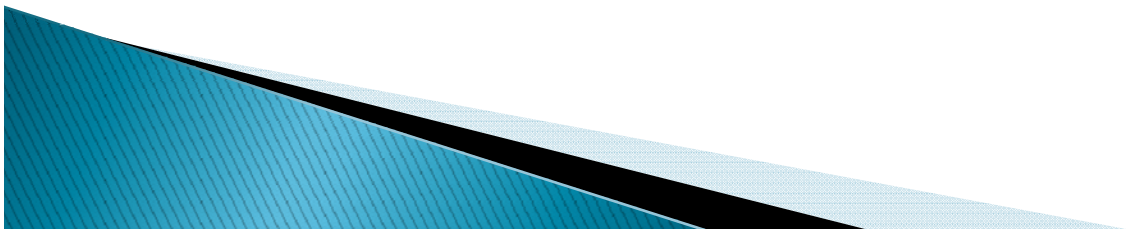
Area Wide Maintenance Plan

- ▶ Surveys
- ▶ Testing
- ▶ Contracting
- ▶ Equipment



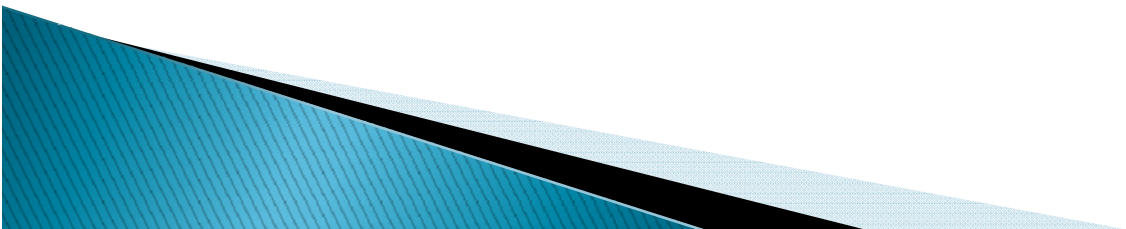
Surveys

- ▶ Survey regularly
 - Sediment rate
 - Identify high spots early and remediate at lower cost
- ▶ Split costs with another facility
 - Some surveyors charge a minimum



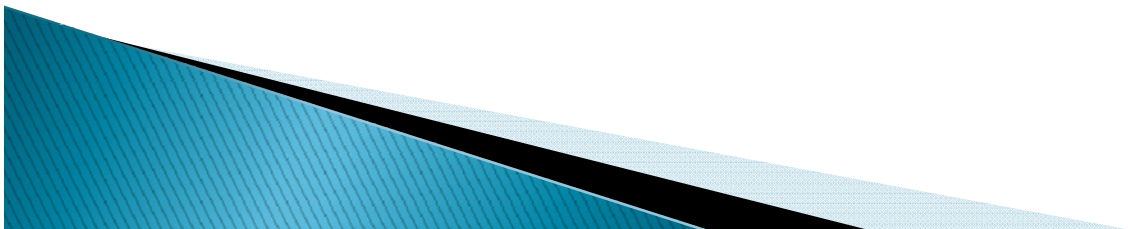
Testing

- ▶ Split costs for sampling
 - Avoids duplicate mobilization fees



Contracting

- ▶ Contract in advance for pricing
 - Year or longer prior to window opening
 - Multi-year
- ▶ Join with other facilities for multi-year contract



Equipment

- ▶ Rent from others
 - Santa Cruz
 - Napa Valley
- ▶ MOU with others to purchase
 - Dredge
 - Scows

