Going Green

Living Shorelines Maine

Using an Instability Rating and Decision Tree
For Living Shoreline & Stabilization Alternatives
Living Shoreline Example

- Rootwads & Woody Planting
- Vegetation Dissipation

- ERODED CONDITION
- ROOTWAD – WOODY WILLOW
- ROCK REVETENT ATTEMPT
- ROCK & WILLOW LIFTS
- SCOUR HOLE HABITAT
- 3 MONTHS COMPLETION
- 3 MONTHS - LOW TIDE
Bustins Island Natural “Case Study”
Vegetation vs. Riprap

Living shoreline with vegetation
Hardened shoreline

Bustins Island
Image source: Troy Barry
Conceptual DLA on Bustins Island
Complex Coastal Processes

Key Physical Parameters:
- Coastal Geomorphology
- Wind/Fetch
- Waves
- Tides
- Hydrology
- Upland groundwater
- Vegetation-slope stability
- Soils – horizons/type
- Wood Debris - sediment

Human Activities:
- Infrastructure
- Watershed Changes
- Upland Drainage Patterns
- Upland Vegetation Changes
Rootwad Installation – Bank Habitat
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