

# Living Shorelines Barriers and Opportunities

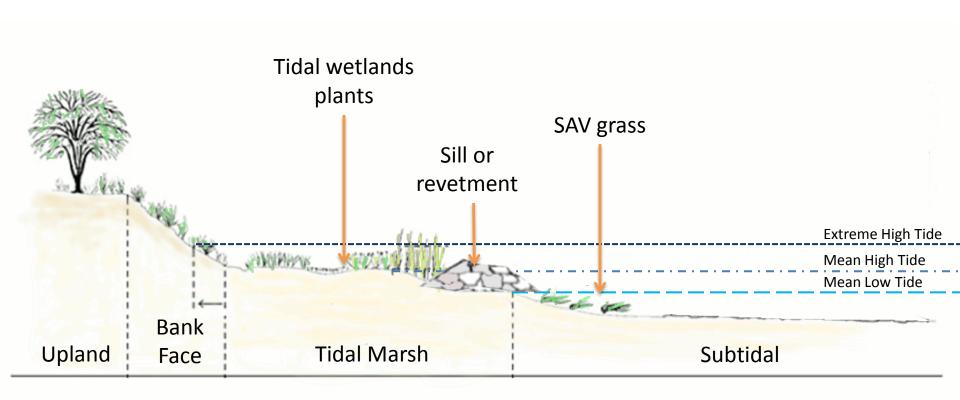
**USACE** Working Meeting:

Natural and Nature-Based Approaches to Support Coastal Resilience and Risk Reduction November 21, 2013

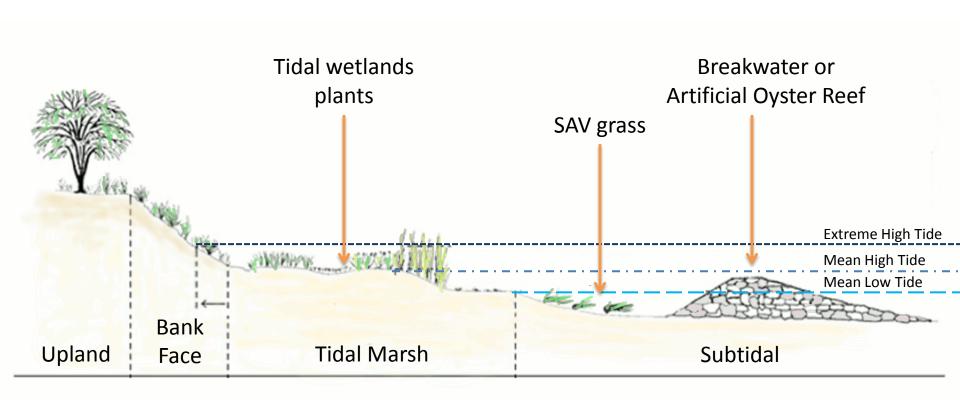
GEORGETOWN CLIMATE CENTER



## What is a living shoreline?

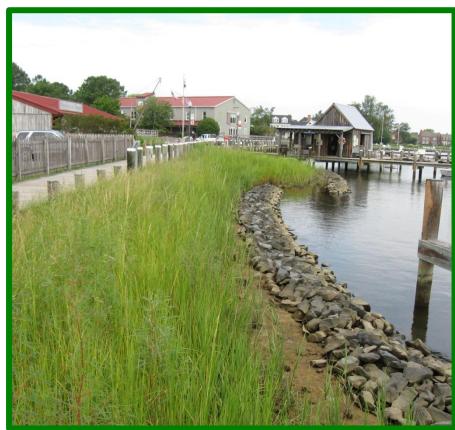


## What is a living shoreline?









#### **Regulatory Authority**

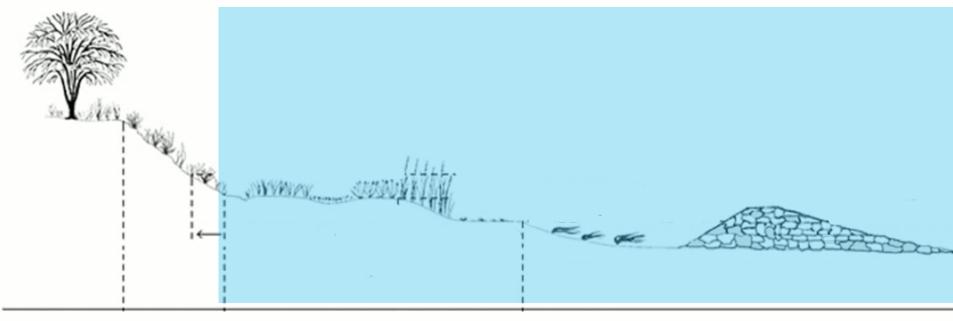
**Local** (in some states)
Land-Use Powers



# State State Water Quality Program State Coastal Management Program

Army Corps of Engineers
Sec. 404 Clean Water Act
Sec. 10 Rivers and Harbors Act

#### **Regulatory Authority**



#### **Army Corps of Engineers**

Sec. 404 Clean Water Act Sec. 10 Rivers and Harbors Act

#### **Army Corps Permitting**



Nationwide General Permit (NWP)



 Army Corps does administrative work



Individual Permit (IP)



 Landowner does administrative work



#### **Army Corps "administrative work"**

Environnental Review Public Interest Review

Endangered Specific Certification

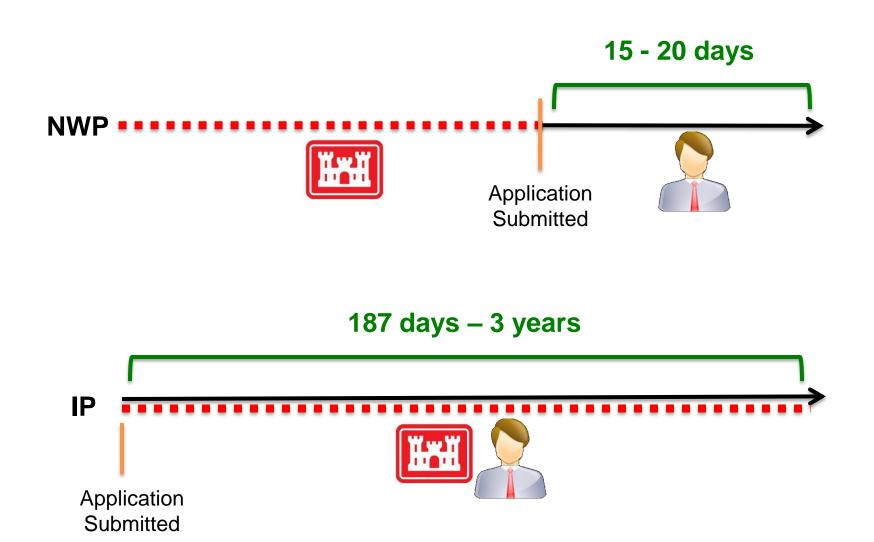








#### **Permit Comparison**



#### **Regulatory Barriers**





Easy for landowners to obtain permits for an armoring project

**Difficult** for landowners to obtain permits for a living shoreline project

#### **Policy Options for States**

1. Programmatic General Permit



2. Regional General Permit



#### **Policy Options for States**

1. How does it work?

2. How does it reduce the barriers to living shorelines?

3. What is the effect on Army Corps, states, and landowners?

#### **Programmatic General Permit**

Army Corps issues PGP



State given authority to issue federal permits for living shorelines





#### **Category A**

- Minimal impact
- Only need state review

#### **Category B**

- More significant impact
- Reviewed by Army Corps

#### **Effect of PGP**

Reduces work for Army Corps

Increases discretion of states

Responsive to state adaptation goals

Reduces work for landowners

#### **Regional General Permit**

Army Corps issues RGP for living shorelines



Individual permits no longer necessary for living shorelines



Army Corps issues RGP for armoring



Armoring permitted only if no feasible alternative



#### **Effect of RGP**

Increases work for Army Corps

Levels the playing field

Reduces work for landowners

Allows for flexible design standards



#### urban heat toolkit





A Leading Resource for State and Federal Policy





sea-level rise toolkit

