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President

OCEAAN
Coastal Planning and Engineering Services
Beverly Hills, CA



Doctor in Public Policy, Planning and Development

Sol Price School of Public Policy, USC

Masters Degree Geography

Dornsife College of Letters Arts and Sciences, Geography

Geographic Information Systems Analyst IV Diploma

Dornsife College of Letters Arts and Sciences, Geography

Masters Degree Coastal Zone Management

Universidad Autónoma Baja California, Ensenada

BS Physical Oceanography, Geology

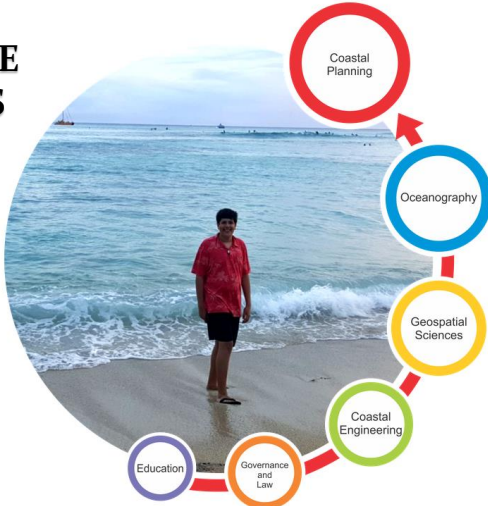
Universidad Autónoma Baja California, Ensenada

Disaster Preparedness Agency Compliant

Coastal Planning and Engineering Services

OCEAAN

EMERGENCY PREPAREDNESS RESILIENT BEACHES DESIGN TO MINIMIZE NATURAL DISASTERS



Coastal Planning

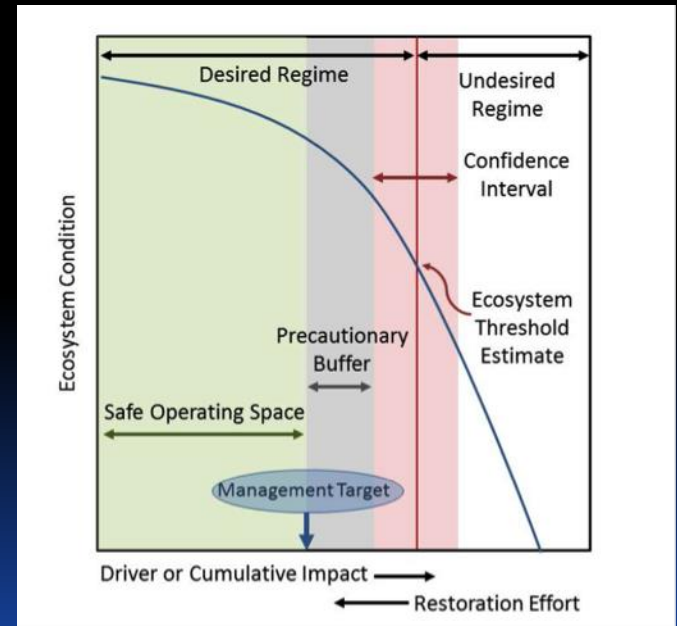
Oceanography

Geospatial Sciences

Coastal Engineering

Governance and Law

Education



El Nino 2026

Coastal Planning and Engineering Services



A historic "Super El Niño" has officially formed, with sea surface temperatures in the tropical Pacific reaching 2.0°C (3.6°F) above average. Forecasters project a 75% chance that it will become the strongest El Niño ever recorded since 1950.



<https://www.youtube.com/watch?v=bcRHPLR7Mvw>

El Nino 2026



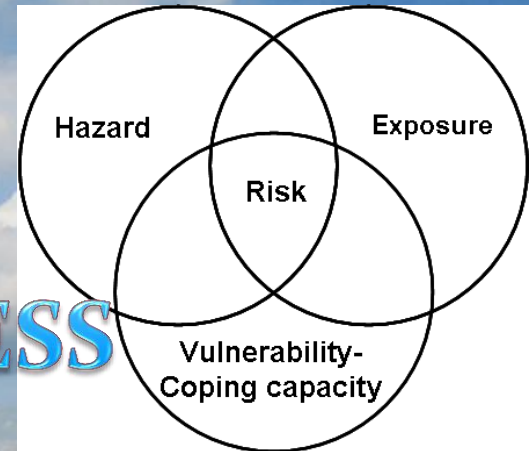
PREPARING FOR EL NIÑO

- Dune Erosion
- Sediment Deficit
- Coastal Retreat
- Lagoon Sand-bar Rupture
- Floods
- Emergency Evacuation
- Damage to Coastal Infrastructure



Hazards , Risk, Vulnerability, Exposure, Resiliency

BEACH RESILIENCY AND EMERGENCY PREPARDNESS



Resiliency

Increase Response Capacity

Decrease Exposure



Preparedness: Reduce Hazards , Risk, Vulnerability, and Exposure,



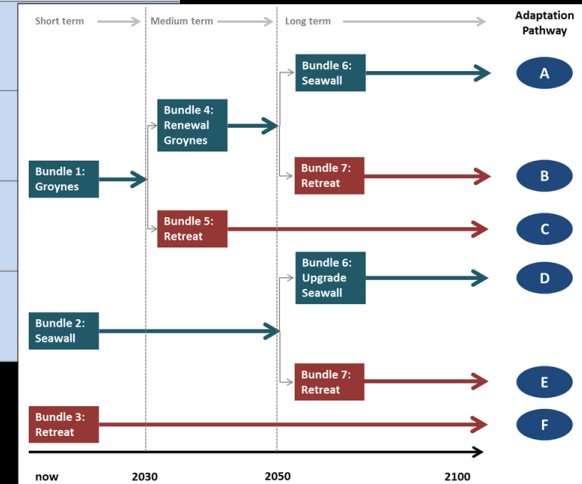
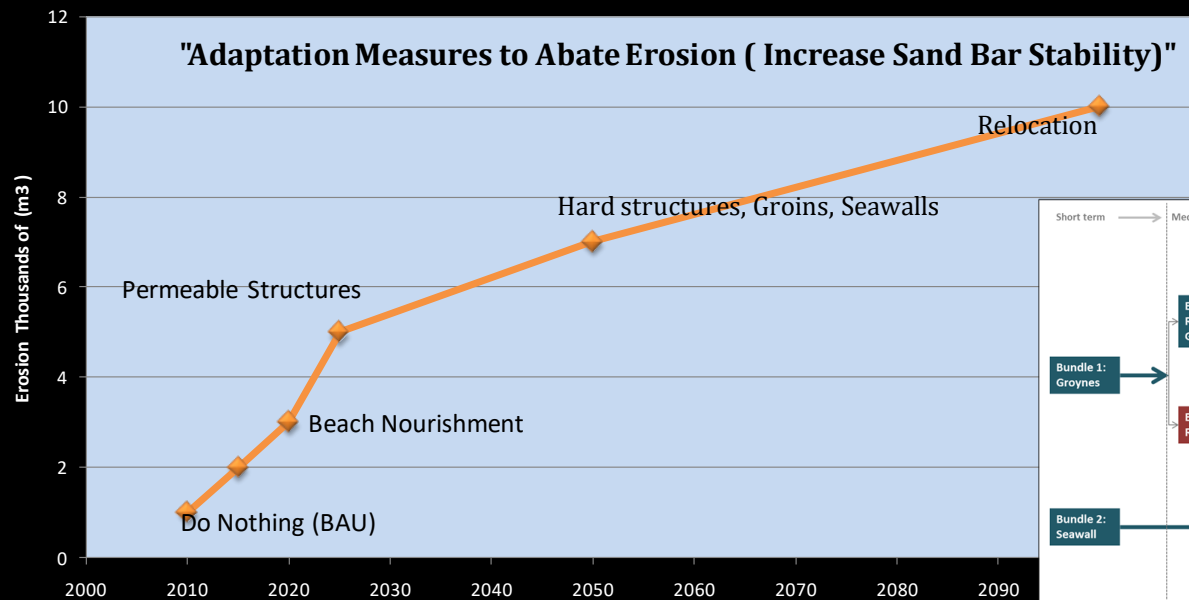
**Increase
Resiliency**



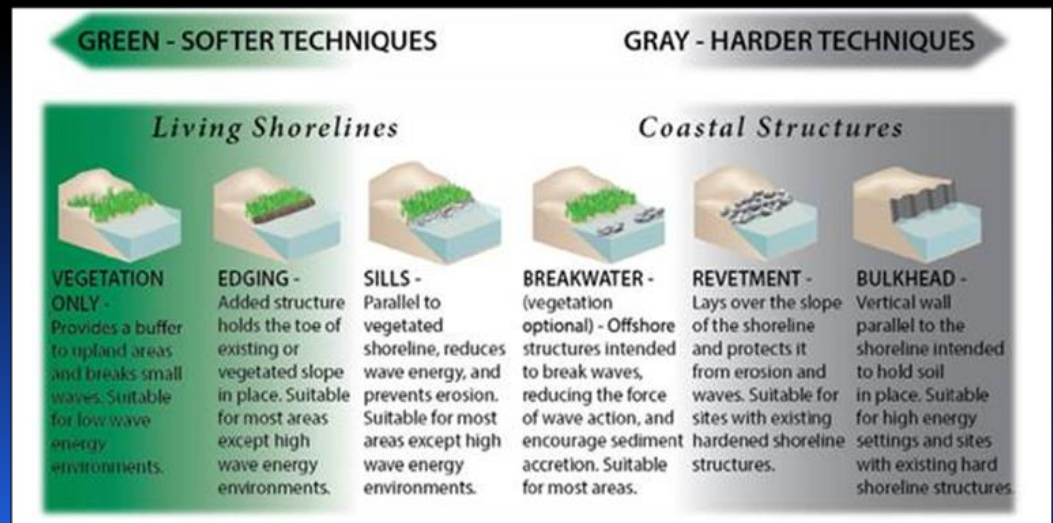
**Decrease
Exposure**



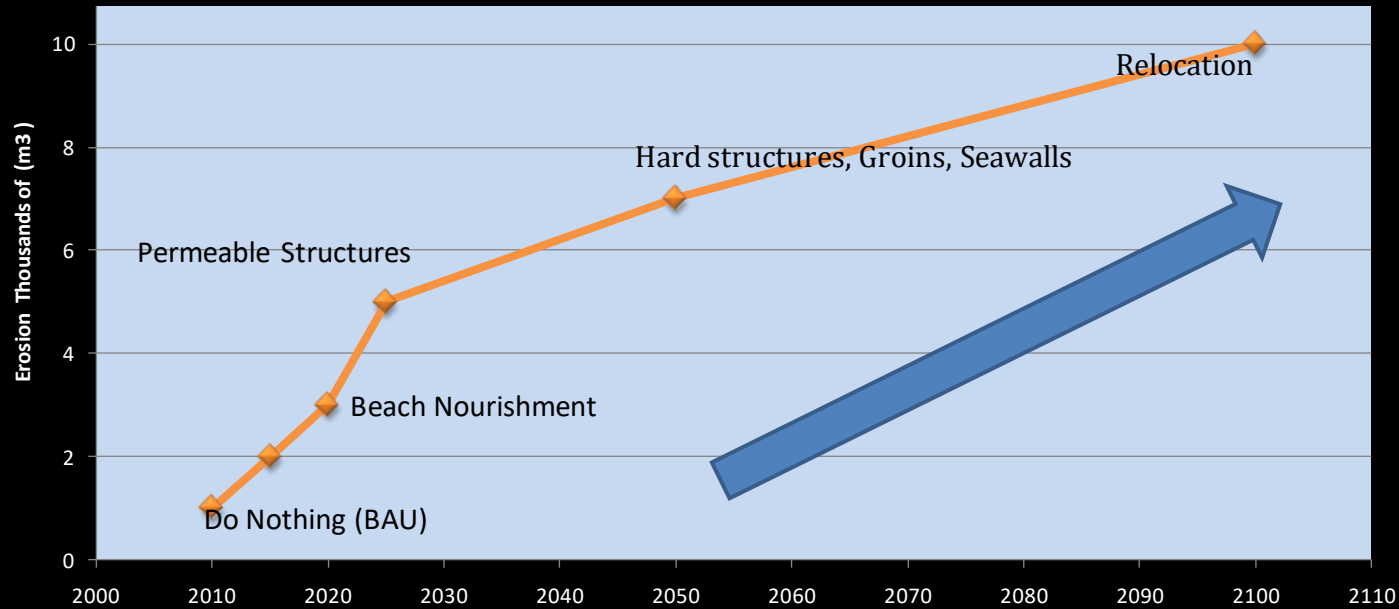
Adaptation Measures for Shoreline Stability



- Linear progression?
- Modular combination?
- What is more efficient?



Progression of Emergency Defense and Adaptation



Preparedness: Increase Response Capacity with Carefully Planned Solutions



TrapBag®



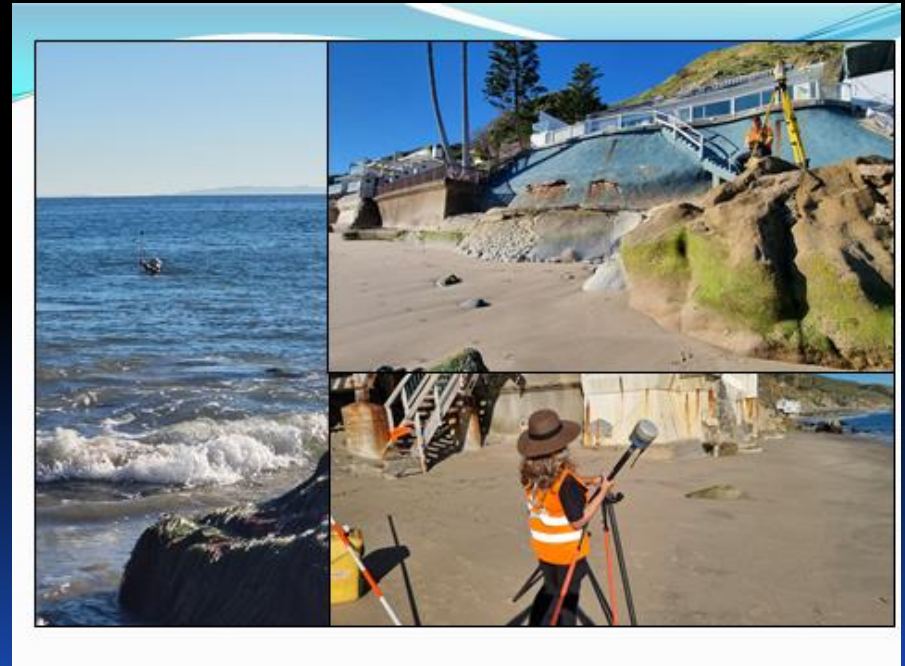
**Increase Response
Capacity**

OCEAAN

Coastal Planning and Engineering
Can help you to design
a progression of adaptive measures
to protect your property



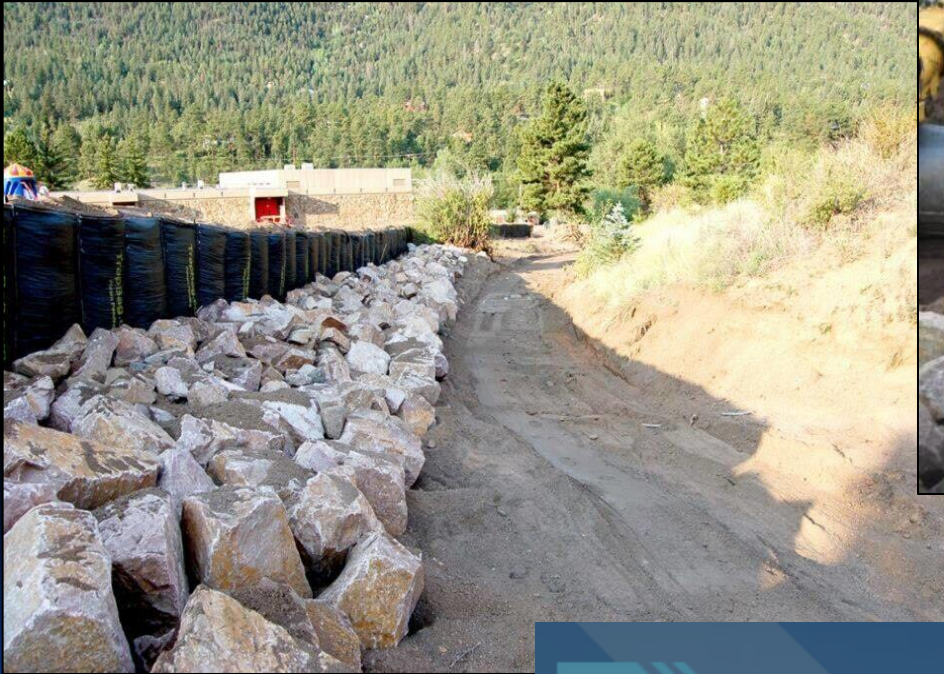
- *Coastal Act compliant
- *Aligned with LCP rules
- *Minimizing impacts
- *Earning approval by local agencies



Modular Design Potentially Growing with the Situation



Modular Design that can be combined in different configurations



 **TrapBag**



Modular Design Deployed in One Day Fillable with Materials Easy to Find Readily Available



TrapBag



[Click HERE](#) Video: Deploy 50ft of barrier in only 50 sec.

Design that can be easily removed after the storm
ripping the sand bag and releasing
pristine sand on the beach.



Design that keeps the sand on place during the storm then releases the sand on the beach protecting millions of dollars invested in beach nourishment

TECHNICAL SPECIFICATIONS

TBR120 4FT



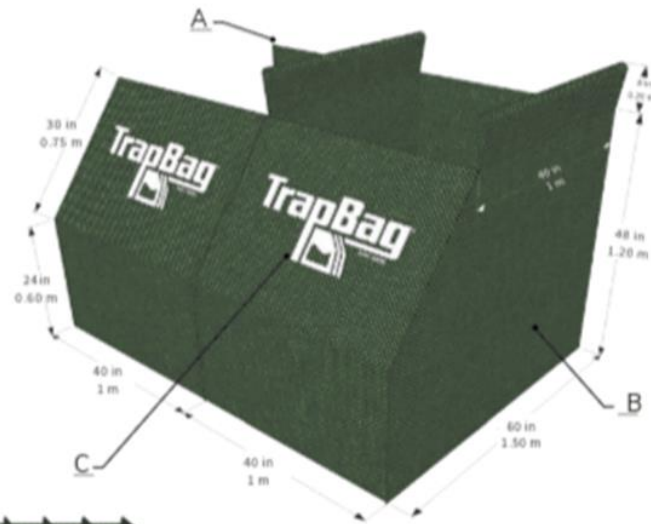
UNIT	HEIGHT	WIDTH	LENGTH
A. Body	48 in (1.20 m)	40 in (1 m)	50 ft (15 m)
B. Sides	48 in (1.20 m)	60 in (1.50 m)	—
C. Printing	White ink printed on each body front and back		

Note: All measurements are approximate and subject to a tolerance of ± 5 inches when filled.

GENERAL SPECIFICATIONS

Geotextile cellular barrier system constructed from heavy-duty, permeable polypropylene fabric for enhanced protection and UV resistance.

Each unit is made up of 15 cells. The image shown displays only 2 of those cells from a single unit.



Fill them up with sand gravel or concrete according to your project needs



Prepare Ahead of Time



Do not compete with other Emergency Response Agencies for the same materials.

---It gets Expensive and is scarce ---

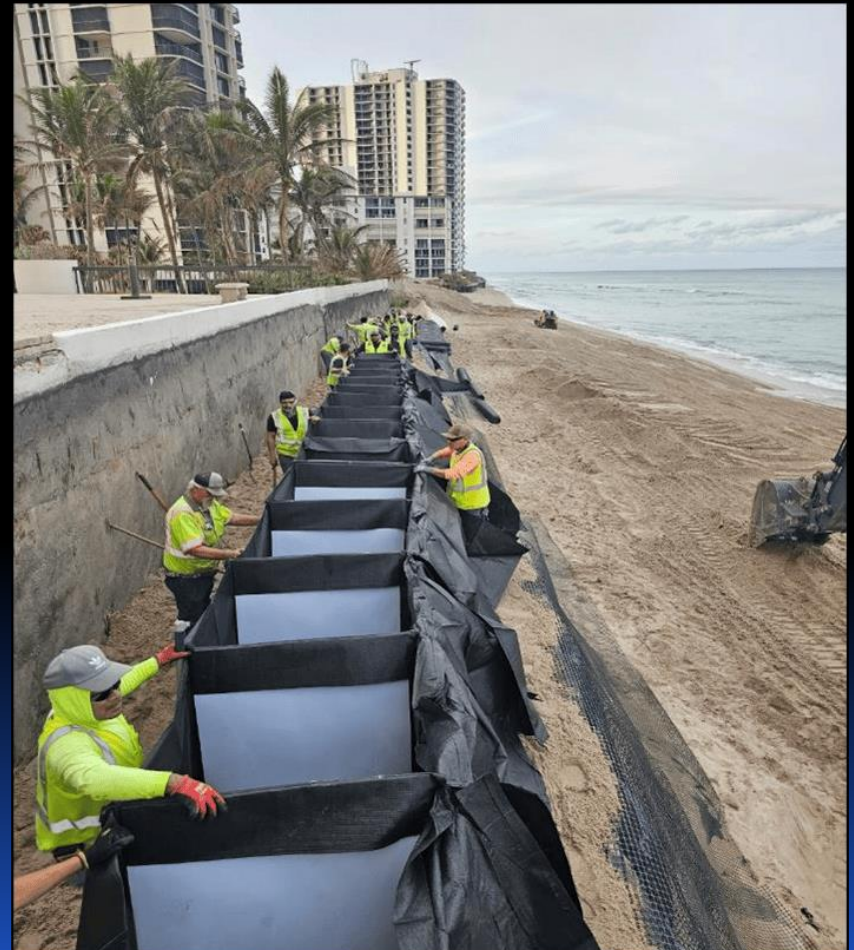
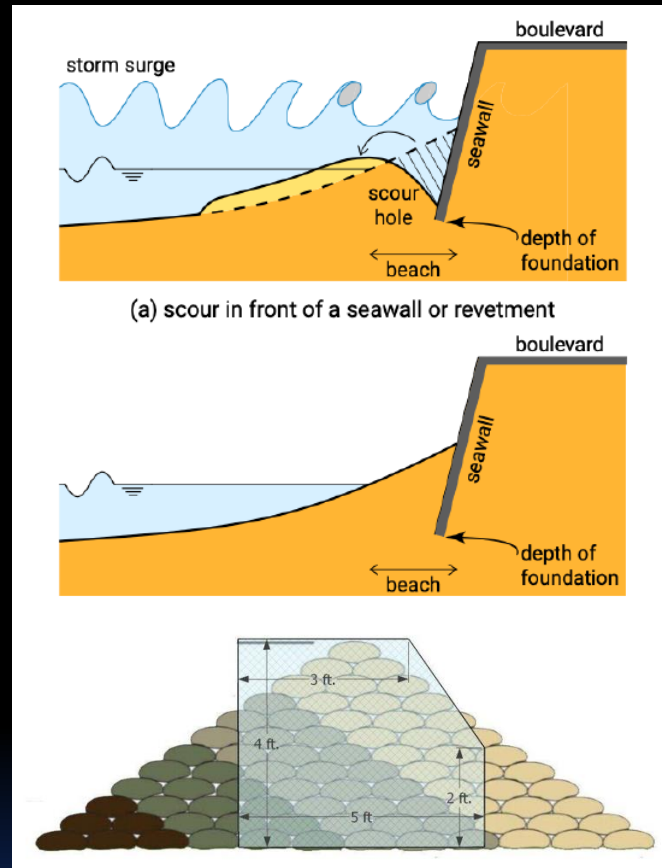
Order your Trap-Bags with anticipation
subsite expensive, hard to handle and
hard to remove Rip-Rap boulders.



Protecting Coastal Cliffs



Protect Existing Sea Walls from Scouring



Protect Critical Infrastructure



Protect Embankments



Prevent Critical Infrastructure Flooding



Prevent Lateral Erosion and Secondary Hazards like Mud Slides



Invisible Buried Protection Design Underneath Dynamic Adaptive Systems



Dunes can be added in top of the protective structure serving as a last line of defense if the dune is eroded during a storm



Efficiency

Protection that can be made permanent filed with concrete
reducing cost and construction time



Adaptability

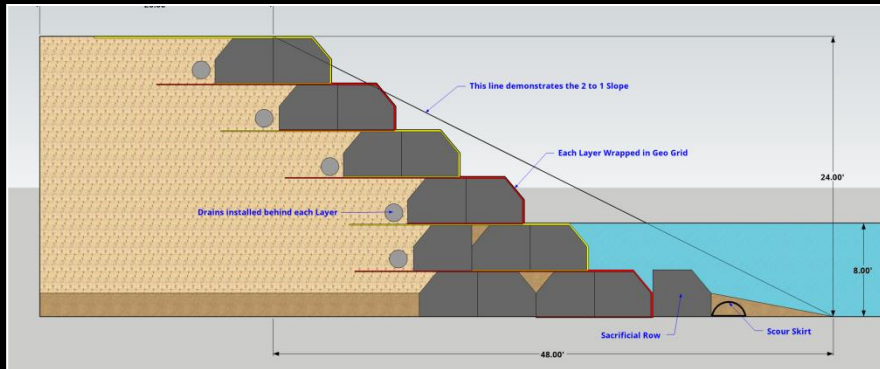
Fill with Sand, Gravel or Concrete

Place on Water, Sand, Gravel or Concrete



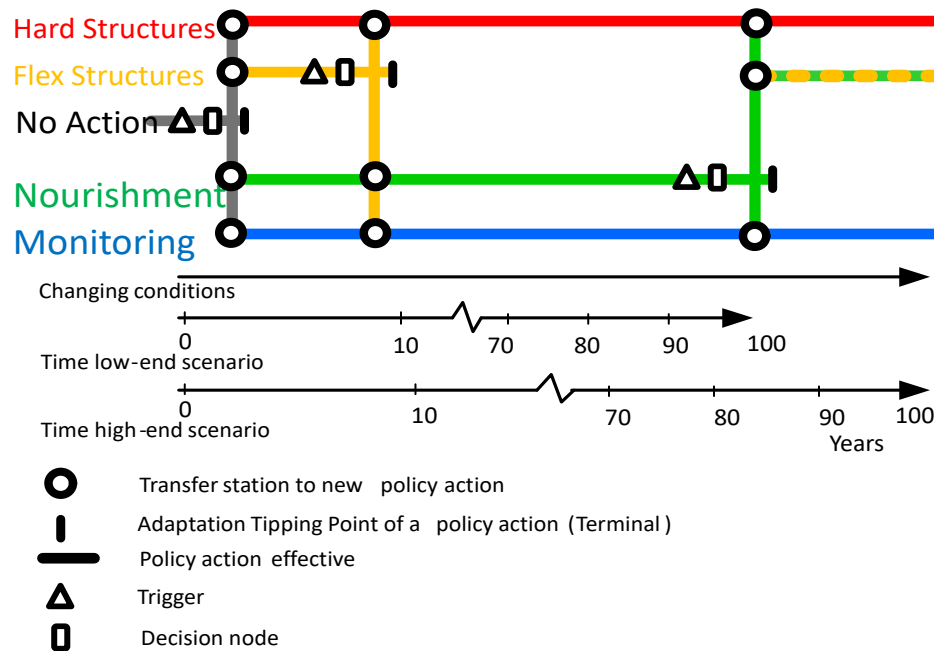
TrapBag

Energy Dispersion and Redirection



Scoring Adaptation Measures and Creating Shoreline Stability Pathways

An Adaptation Pathways Map for the Sandbar Management



Time horizon 50 years, high-end scenario

Time horizon 100 years, low-end scenario

Time horizon 100 Years, high-end scenario

Pathway	Costs	Benefits	Co-benefits
1 ●	+++	+	0
2 ● ●	+++++	0	0
3 ● ●	+++	0	0
4 ● ●	+++	0	0
5 ●	0	0	-
6 ● ●	++++	0	-
7 ● ●	+++	0	-
8 ● ●	+	+	---
9 ●	++	+	---

Pathways that are not necessary in the low-end scenario

Enjoy some videos:



- [TrapBag Reusable Flood Barrier Installation](#)
- [Using TrapBag to Increasing Berm Height for Shoreline Protection, Flood Control, Landslide and Mud Slide Redirection and Containment.](#)
- [TrapBag Preparedness: Coastal Erosion Control | Baker's Bay, Bahamas](#)

Tell us More about your needs

<https://www.OCEAAN.US>

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(310) 869-0305



Thanks



“Excellence is the result of caring more than others think is wise, risking more than others think is safe, dreaming more than others think is practical and expecting more than others think is possible.” ~ Ronnie Oldham.

