

Developing Best Practices System-wide actions for coastal resilience

Engineering
 Environmental
 Community

What is in the system?

- Physical components
 - ▶ Gray/green infrastructure, multiple lines of defense
- Data and information
 - ▶ Monitoring structural health, detecting threats
- Decision-making/organizations
 - ▶ Protocol for enacting emergency measure, tabletop or practice exercises, responsible agency
- People
 - ▶ Proper use of structures, evacuation mindset, lines of communication, education, recreation, etc.

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Activity: Categorize structures and identify supporting actions

PREPARE – ABSROB	RECOVER - ADAPT
<ul style="list-style-type: none"> Prevent / negate threat Defend against consequences Reduce damage and loss when defenses are breached Support immediate emergency response phase 	<ul style="list-style-type: none"> Reduce time to recover full function Support the recovery of other critical community functions Act over longer periods Provide some risk reduction to combined threats

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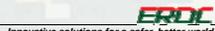
Best Practice Brainstorming Instructions

1. Split into similar coastal zone groups.
2. Identify green and gray structures and categorize as prepare/absorb or recover/adapt
3. List supporting social, information, and organizational features necessary for success

For today:

- ✓ In brainstorming, no ideas are bad ideas!
- ✓ Ignore capital investment / maintenance funding issues
- ✓ Ignore objections of property owners to easements, loss of view, etc.

* Select a speaker to share ideas with the class.



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Best Practices: Examples

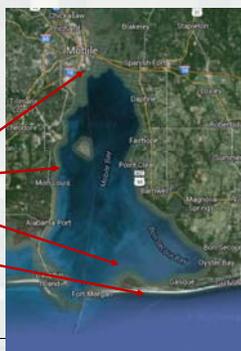
Mobile Bay, AL
- Multiple lines of defense

elevate port and transportation infrastructure

natural revetments

wetlands restoration

barrier island beach nourishment



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Best Practices: Examples

Bayville, NY
-Install pumps to speed recovery from nuisance flooding and major storms in low-lying areas



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Best Practices: Examples

Bayville and Breezy Point, NY
- Protocol to move emergency vehicles and debris removal equipment to high ground before flooding.



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Best Practices: Examples

New York City
MTA
- Communicate subway shut down and start up time to the public



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Best Practices: Examples

Multiple cities
- Rapid structural safety assessment/ triage (green-yellow-red stickers)



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