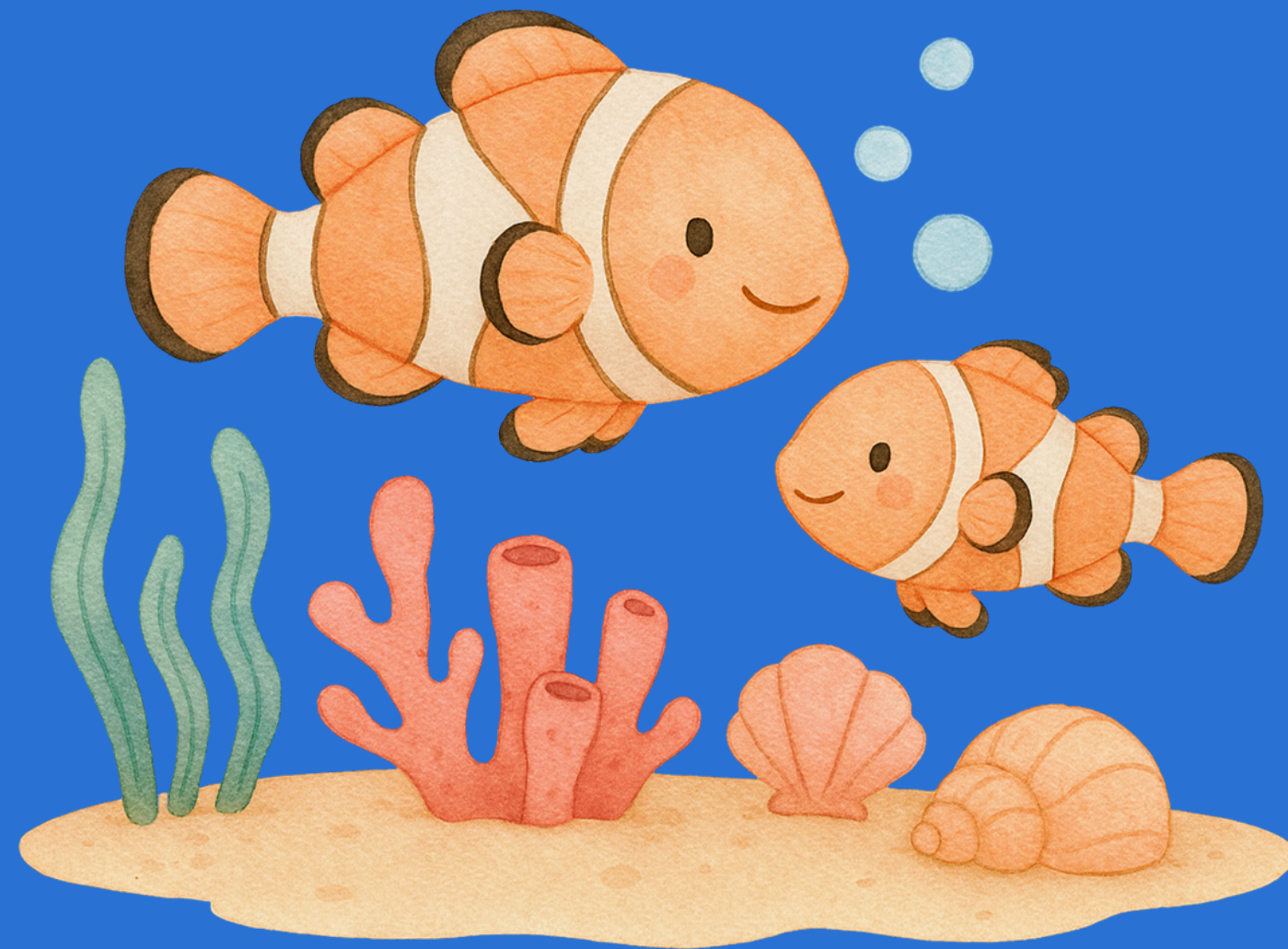


LIVING

SEAWALLS



PRESENTED BY :
JACOB FINLAY
EVAN COULTER

A **traditional seawall** is a **hard, smooth, vertical barrier** of **concrete, steel, or stone** built to **block wave energy** and **prevent erosion**.



What are Sea Walls?

Who needs Sea Walls?

Residents with waterfront properties that lack natural protection from the water.



Benefits of Sea Walls

1

Prevents Erosion



2

Protects Buildings



Benefits of Sea Walls

1

Prevents Erosion

Seawalls act as a hard barrier against wave action, preventing the gradual loss of shoreline soil and sediment.



Benefits of Sea Walls

2

Protects Buildings

By absorbing and deflecting wave energy, they shield waterfront homes, seawalls, and infrastructure from storm surge and flood damage.





Problem with **Sea Walls**

Traditional seawalls excrete toxins harmful to sealife and offer no habitat for marine life. This causes poor water quality and poor algae growth.





THE NEW

QUESTION:

HOW DO WE KEEP ALL THE GREAT
BENEFITS OF TRADITIONAL SEAWALLS
WHILE FIXING THE ISSUES?



A living seawall uses the same structural function as traditional sea walls but adds textured, habitat-friendly surfaces (tide pools, crevices, ledges) engineered specifically to host marine organisms



What are Living Sea Walls?

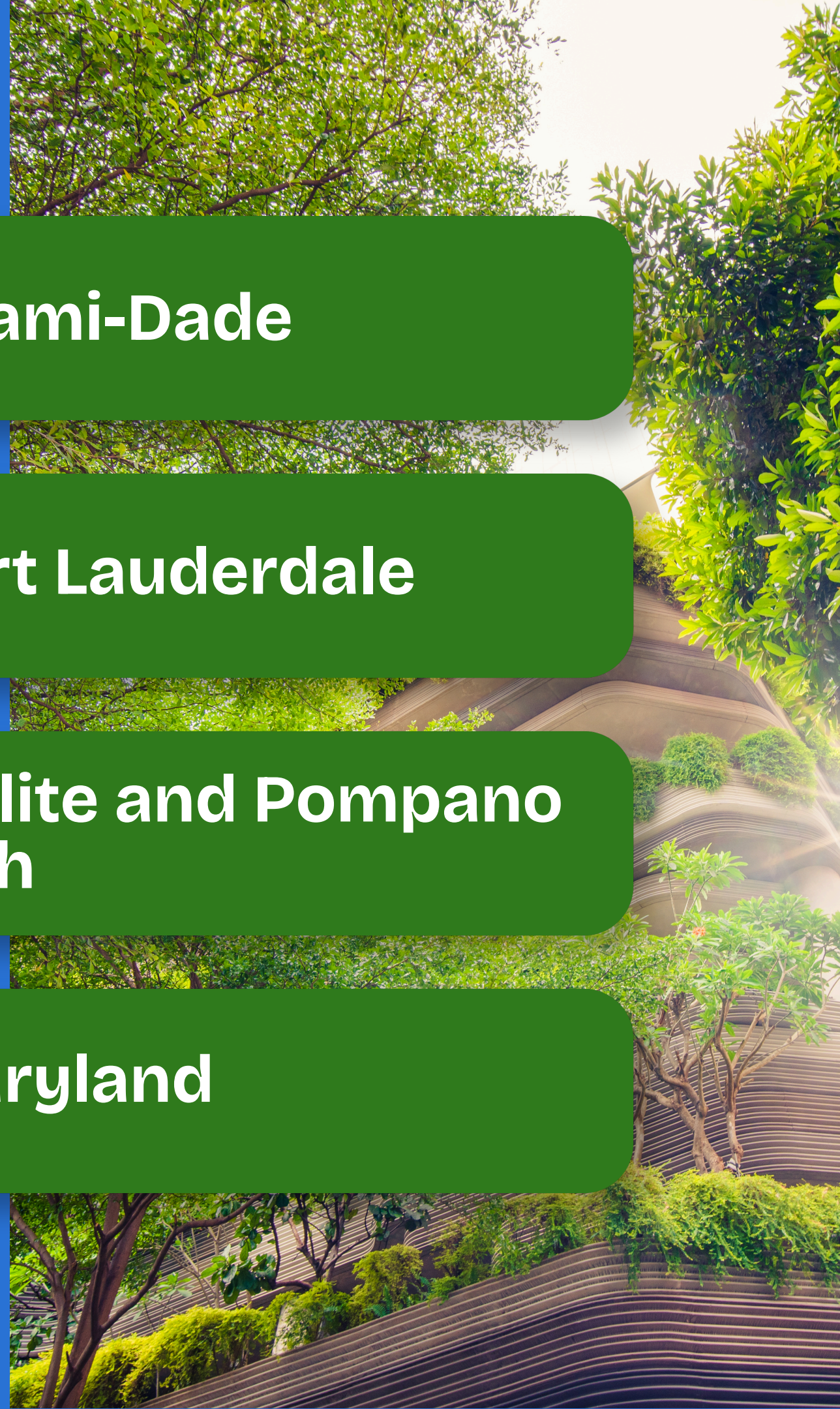
Who has Living Sea Walls?

1 Miami-Dade

2 Fort Lauderdale

3 Satellite and Pompano Beach

4 Maryland

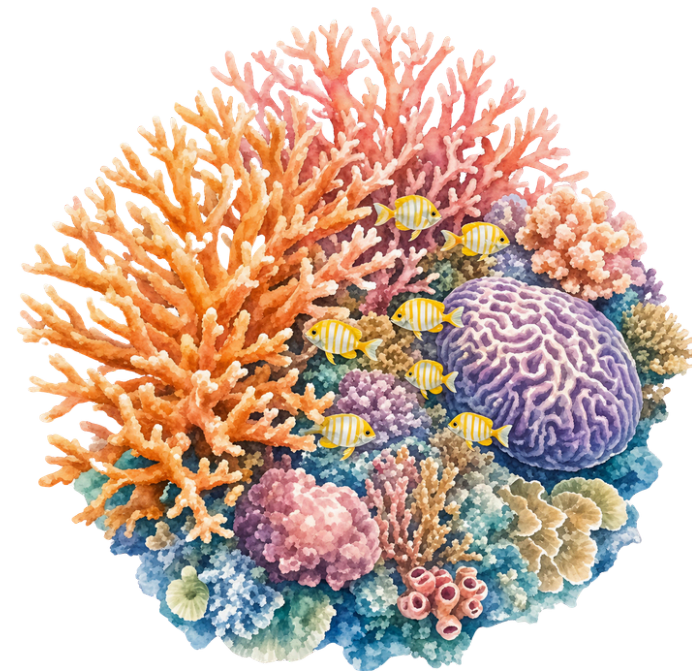


Benefits of

Living Sea Walls

1

Biodiversity



2

Improved Water



3

Cost-Effective



Benefits of

Living Sea Walls

1

Biodiversity

Habitat-friendly surfaces attract significantly more marine species than flat concrete, turning the wall into a thriving mini-reef that hosts many organisms.



Benefits of

2

Living Sea Walls

Water Quality

The textured panels host filter-feeding organisms like oysters and barnacles that naturally clean the surrounding water allowing for a healthy water system.



Benefits of

3

Living Sea Walls

Cost-Effective

Marine growth on the wall adds a protective layer against wave damage and corrosion, reducing long-term repair and maintenance costs compared to traditional Sea Walls.



Thank You!

