



NOAA's Ark



How might we reduce coastal flooding in areas in Florida that have experienced mangrove destruction in the past 5 years?

Problem: **Projected Mangrove Loss** in Florida

1.5x the size of Atlanta **by 2050**

5x Atlanta in **2100**, due to increased tropical cyclones

A **100m** stretch of mangrove forest can **reduce waves** by at least **50%**



COASTAL CRADLES

A Mangrove Restoration Kit

Utilize restoration groups, ecotourism, and education

Low cost and accessible

Encourages communities to take an active role in mangrove restoration and flood prevention

The more mangroves planted the more chances of a better future



First Users + Scalability

“Your project sounds valuable, and I hope it is a large success.”

- Ken Bradshaw

Ecological Restoration Manager
Hillsborough County



Experiment & Results

- Have people of early, middle, and late stages of life test the usability of the kit
- Ease of use for all potential users

Kit Contents

- Auger Drill
- pH testing kit
- Jute grow bag
- Pamphlet with instructions

“If mangroves were lost, **15 million** more people would be flooded annually across the world.”

