

RISING SEA LEVELS ARE THREATENING OUR CITIES



Image by Mario Alejandro Ariza, Disposable City

Florida Case Study:

2030: 0.5 feet **2040:** 1-2 feet **2100:** 6-10 feet

Consequence:

US Army Corps of Engineers issued the following mandate to meet MINIMUM seawall requirements by 2040 :



FL: \$76B



US: \$416B*

^{*}Source: The Center for Climate Integrity: climatecosts2040.org/files/ClimateCosts2040_Report-v5.pdf

WHO WILL BE IMPACTED?

Top 10 US Cities Hardest Hit By Rising Sea

СІТУ	POTENTIAL UNDERWATER HOMES	SHARE OF HOMES UNDERWATER	TOTAL VALUE OF HOMES LOST
MIAMI, FL	481K	24.2%	\$217.3B
NEW YORK, NY	180K	4.6%	\$123.2B
TAMPA, FL	105K	9.9%	\$40.6B
FORT MYERS, FL	53K	16.7%	\$25.4B
BOSTON, MA	53K	4.3%	\$42.7B
UPPER TOWNSHIP, NJ	46K	56.6%	\$29.3B
SALISBURY, MD	45K	21.1%	\$11.7B
VIRGINIA BEACH, VA	43K	8.3%	\$13.5B
BRADENTON, FL	40K	11.6%	\$25.4B
NAPLES, FL	38K	20.9%	\$28.1B



USA

Miami No. 1 in US
Florida 5 cities out of top 10



GLOBAL

507 Cities at risk by **2050**

TOP 5:

- 1. Bangkok
- 2. Amsterdam
- 3. Ho Chi Minh
- 4. New Orleans
- 5. Manila

CONVENTIONAL
SEAWALLS ARE FAILING

No innovation in decades



At present, contractors make their own panels:

- Molds
- Labor Intensive
- Slow Production



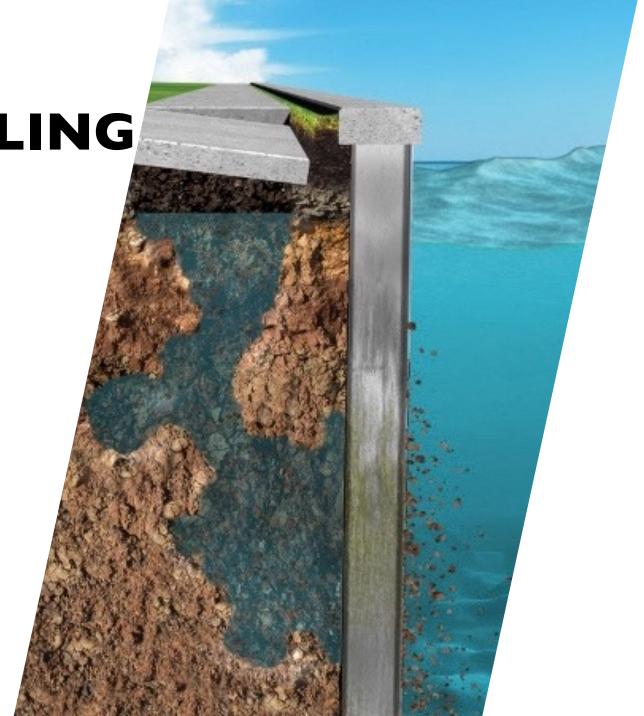
Environmental Impact:

- Habitats destroyed
- Water toxicity increased



Requires environmental mitigation

- Consumes up to 90% permitting time
- Adds 20% to cost of project



WE'RE PRINTING NEXT GEN SEAWALLS

Design Features Enabled by 3DPrinting



FOR THE SAME PRICE AS CONVENTIONAL PANELS

HOW IT IMPACTS THE ENVIRONMENT:

I. Functions as an Artificial Reef



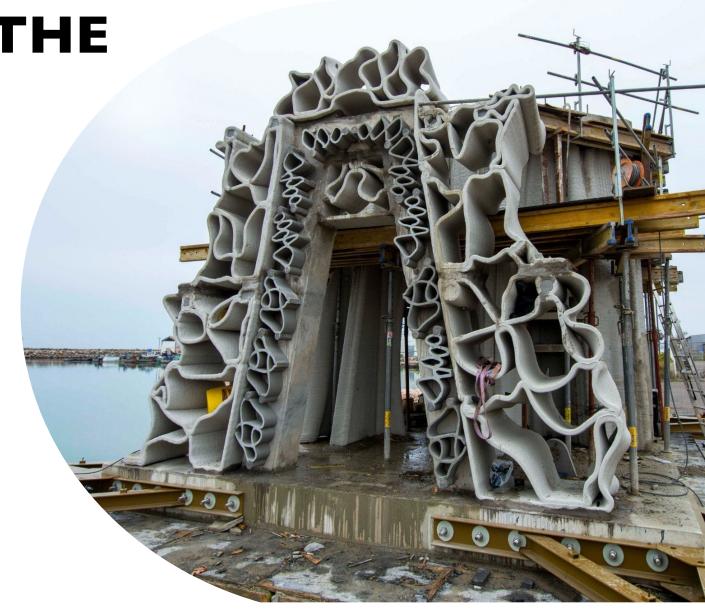
Hosts Biodiversity:

- Seawall becomes habitat for organisms
- Caves provide shelter from predators



Water Quality:

- Materials do not leach
- Sealife consumes water toxins, improving quality of water





HOW IT IMPACTS THE ENVIRONMENT:

2. Sequesters CO2 + Data Collection



Biocalcification:

- Marine organisms deposit skeletons into seawall
- Skeletons assimilate carbon
- 1 panel = 1 tree (40lb co2/yr)



Data Collection & Analytics

- Sensor tracks 15 parameters (Ph, algae, toxins etc.)
- Live data
- Seawalls communicate

IT'S NOT JUST BETTER FOR THE PLANET

BUSINESS MODEL



Phase I: Sell Panels to Contractors

- Sell panels to contractors, they install & permit
- Same price as making their own
 - Save construction time
 - Free environmental benefits
- Post ecological study
 - Panels certified as "self-mitigating"
 - Save permitting time + overall cost

Phase 2: Platform

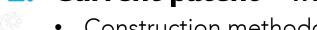
- Empower contractors in all 507 at-risk cities globally
- Finance printers, provide materials and designs
- Licensing fee

HOW ARE WE PROTECTED?

Current patent – Kind Designs

Design & Habitat Function (patent pending)

2. Current patent – with partner



- Construction methodology (patent pending)
- Robotics

3. WHATS NEXT? Future patents

- Materials
- No Rebar 5X longevity



THE ROAD AHEAD

JAN '23

Robots arrive, warehouse activated in Miami

FEB '23

Private installations begin in Miami and Necker Island

MAR '23

Mass production begins. \$2.5M in existing LOIs







TEAM



Anya Freeman

Founder/CEO

Attorney and former federal prosecutor with experience in environmental policy,.



Adrian Fenty

Govt Liason

Mayor of DC 2007-2011 Special technology advisor to state and local govt...



James Layfield

Founder/CSO

Serial tech entrepreneur, with previous companies in AI, fintech and property tech sector.



David Penkov

Head of Operations

Previously Employee No. 7 at The Boring Company, expert in concrete/production flow



Daniel Caven

Sr Design and 3DP Officer

Architect and robotics professor, lead major 3DP house projects globally.



Patrick Shearer

Sr. Env. Engineer

Green infrastructure designer, civil engineer and living seawall authority.

