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you, thanks to this Miami startup 3D-printed seawalls may be coming soon to a beach near



Riley Kaminer April 4, 2022





Sea levels are rising, and Miami stands to be one of the first places in America to bear the brunt of this climate change. Miami-Dade County predicts that by 2040, sea levels will be 10 to 17 inches higher than they were in 2000.

ton of protecting chorelines, the hiodiversity inherent to these sequells leads to an improvement in water or aliality Company is working to create a system for 3D printing so-called 'living' seawalls, mimicking coral reefs and mangroves. On One Miami-based company has developed a tech-forward solution to turn back the tides of climate change. The Addition



[than traditional seawalls] because we can print 95% of the project." more freedom in the design. There's also a financial advantage, she told *Refresh Miami: "*They're much cheaper to build

What's the advantage of the 3D printing approach? Freeman explained that they are much faster to construct, and there is



city in the US will be New York, which is anticipated to have \$100 billion in damages. government body in charge of seawall projects, noted that Miami will be hardest hit by rising seas, with property damages predicted to cost Miamians upwards of \$200 billion within the next 20 years. For comparison, the second most affected Freeman underscored the urgency of addressing rising sea levels. A report from the US Army Corps of Engineers, the

to build seawalls today. "This is a big opportunity," she said of the Addition Company's prospects that spending will happen in Florida. Freeman noted that these figures are so large in part because of how expensive it is In response to rising sea levels, the report argues that the US will have to spend \$400 billion on seawalls. \$70 billion of

proprietary additive that strengthens the seawalls without rebar. While traditional seawalls only last 30 or 40 years, Freeman's 3D printed solution is expected to last longer thanks to a

we're not using rebar," Freeman said. She acknowledged that in the beginning, the team will have to use rebar for building "By mixing the concrete with recycled marine plastic fibers, our seawalls are twice as strong and last twice as long because code purposes. But her vision is to eventually not use rebar at all.

and water temperature in real time. The Addition Company will also put 5G-enabled sensors in these seawalls. That will track essential data such as pH levels

that this will take about a year. Currently, the team is working on a proof of concept: two pilot projects building 100 foot tall seawalls. Freeman estimates

because to achieve the necessary scale," said Freeman. build their own seawalls. "The reason we want to be a platform technology company and not a construction company is The Addition Company aspires to become a platform that develops the tools and technologies to empower contractors to

fundraise this May at the Aspen Ideas: Climate conference in Miami Beach Collective's first cohort, has just joined EndeavorLab's cleantech and climatetech cohort. It also plans to launch a \$1 million The next few months for the Addition Company are expected to be busy. The startup, which was part of <u>Seaworthy</u>

waiting to see how Miami will respond," she said. "It's either going to be a lesson for the rest of the world if we fail, or an Freeman is excited to be building this startup in Miami, a city at the forefront of climate change. "The rest of the world is

Let's all hope for the latter.





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Riley Kaminer

I am a Palm Beach-based technology researcher and writer with a passion for sharing stories about the South Florida tech ecosystem. I particularly enjoy learning about GovTech startups, cutting-edge applications of artificial intelligence, and innovators that leverage technology to transform society for the better. Always open for pitches via Twitter @rileywk or www.RileyKaminer.com.

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