



Action
Change



*Living Sea Walls.
Rebuilding homes for
marine life*

Living Seawalls aims to revolutionise the way we think about building in the ocean. In order to improve the ecological sustainability of new and existing foreshore developments we must ensure that no new development proceeds without first considering how it can benefit both humans and nature. By combining ecological and engineering knowledge, Living Seawalls is committed to developing adaptable and affordable mechanisms to bring life back into marine developments across the world.

This project is focused on working with marine partners and experts to bring a new innovative opportunity to help rebuild our marine eco-system around the world.



Issue

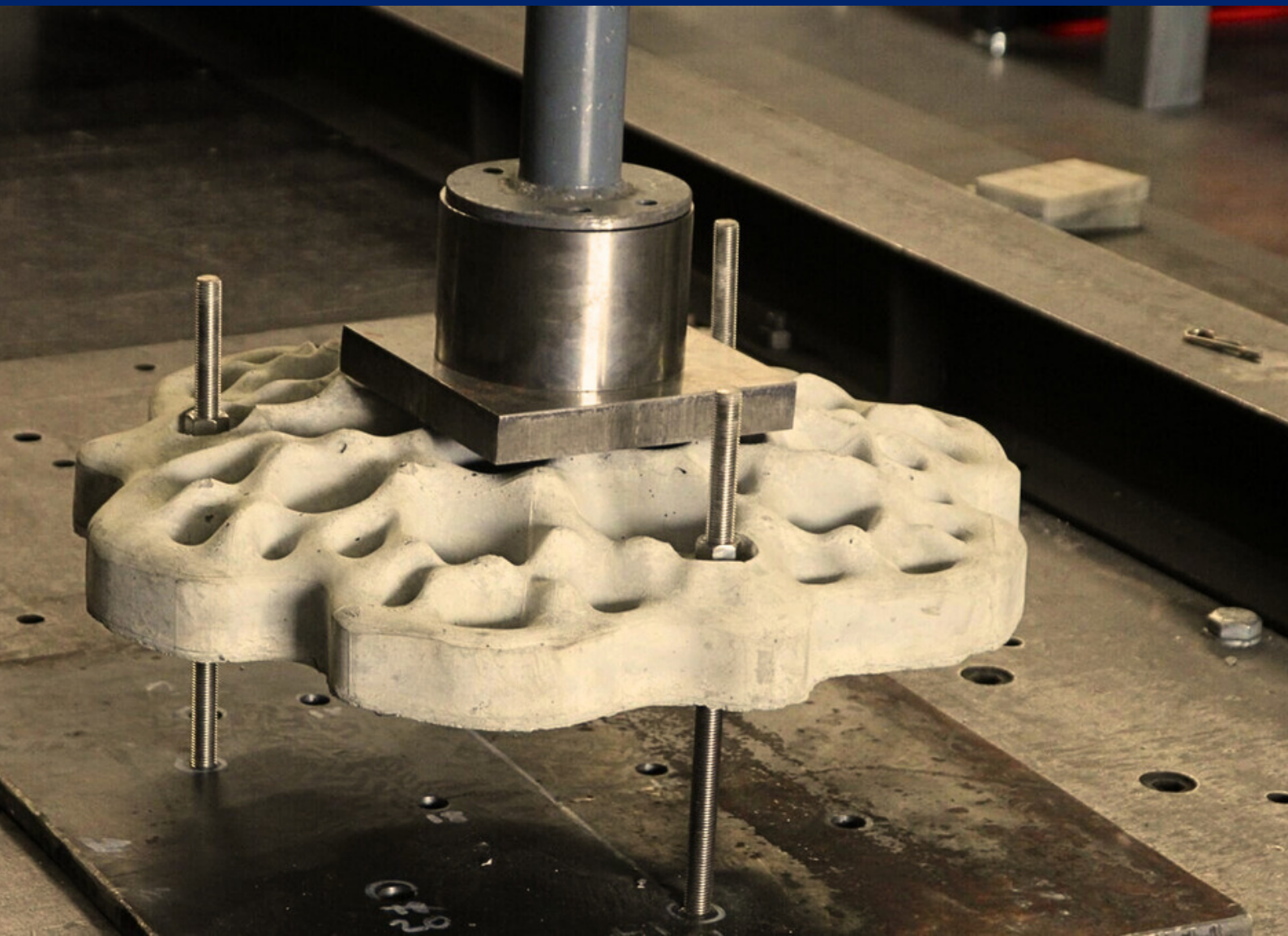
Our oceans are facing a construction boom, and it's taking a toll on the environment. Seawalls, marinas, and other structures are being built to meet global energy and food needs, as well as combat the threats of climate change and sea level rise. However, these structures are impacting the surrounding areas, covering up to 3.4 million km², an area bigger than the world's mangrove forests and seagrass beds combined. In the United States alone, over 50% of natural shorelines have been replaced by artificial, hard structures.

Marine urban structures are replacing natural habitats, and it's having a negative impact on biodiversity and the ecosystem services we rely on. These structures can modify the surrounding sea-floor, reducing the space for marine plants and animals to live, and creating few protective refuges from predators and environmental stressors. This results in reduced diversity and the presence of pest species



Our project has developed an innovative solution to the problem of marine construction. By blending ecological concepts and engineering in creative design, we are reviving our increasingly urbanized oceans. Their panels are designed to reduce environmental impacts, benefit marine life, enhance awareness about the marine environment, and contribute to clean oceans.

The modular system is the result of more than 20 years of scientific research. Panels, mimicking the habitat features of natural shoreline ecosystems, are fitted in scalable mosaics onto artificial structures. The complex panel surfaces increase the habitat area available for colonisation and growth of seaweeds, shellfish and other marine life. They also add protection to marine life from high temperatures and predators.



\$100	Will fund a marine outreach event at a Living Sea Walls site
\$250	Will fund one living sea wall panel
\$500	Will fund a community school outreach event to promote the project
\$10,000	Will fund a 20 panel new site in Australia
\$60,000	Funds the Marine Scientist and Monitoring team for the walls
\$260,000	Will fund our project for 12 months



Charity Tax Benefit

As a charity we have registrations in the United Kingdom, North America and South Africa.

Corporate and Businesses in these countries can claim their donation as a deduction from their taxable income. Please speak to your local accountant but if you need assistance please also feel free to contact Action Change on corporate@actionchange.org.

All donations are provided with a tax receipt, thank you for being apart of the solution!

www.actionchange.org/donate

SDG IMPACT

1 NO
POVERTY



3 GOOD HEALTH
AND WELL-BEING



4 QUALITY
EDUCATION



5 GENDER
EQUALITY



10 REDUCED
INEQUALITIES



11 SUSTAINABLE CITIES
AND COMMUNITIES



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13 CLIMATE
ACTION



14 LIFE BELOW
WATER



17 PARTNERSHIPS
FOR THE GOALS





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