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HABITATS

Agenda

01 Team

02 Problem

03 State of the Art

04 Maris Habitat

05 Ethics & Sustainability

06 Prototype

07 Marketing & Communication

08 Video

09 Conclusion

Meet the Divers



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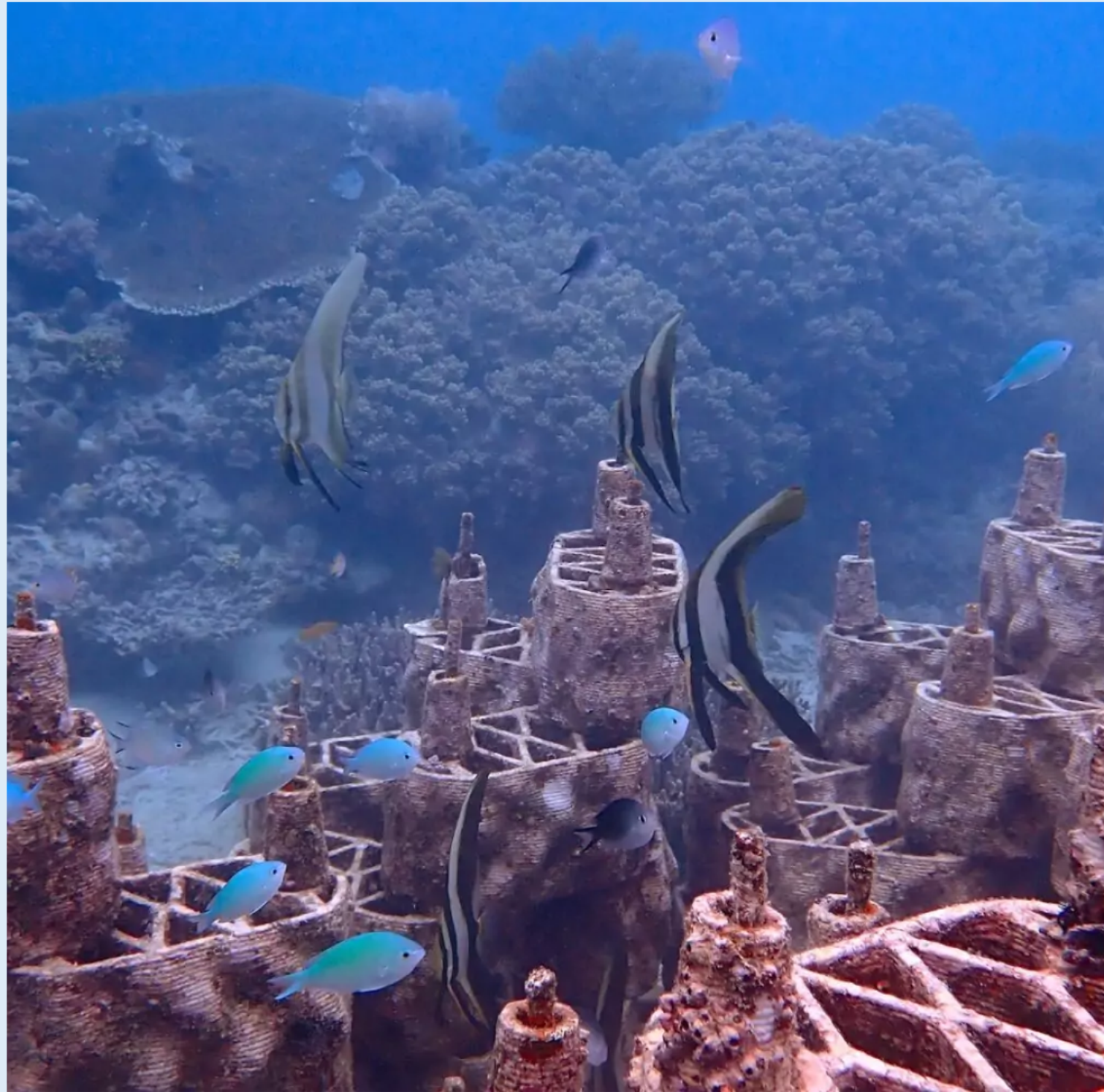
08 Video

09 Conclusion

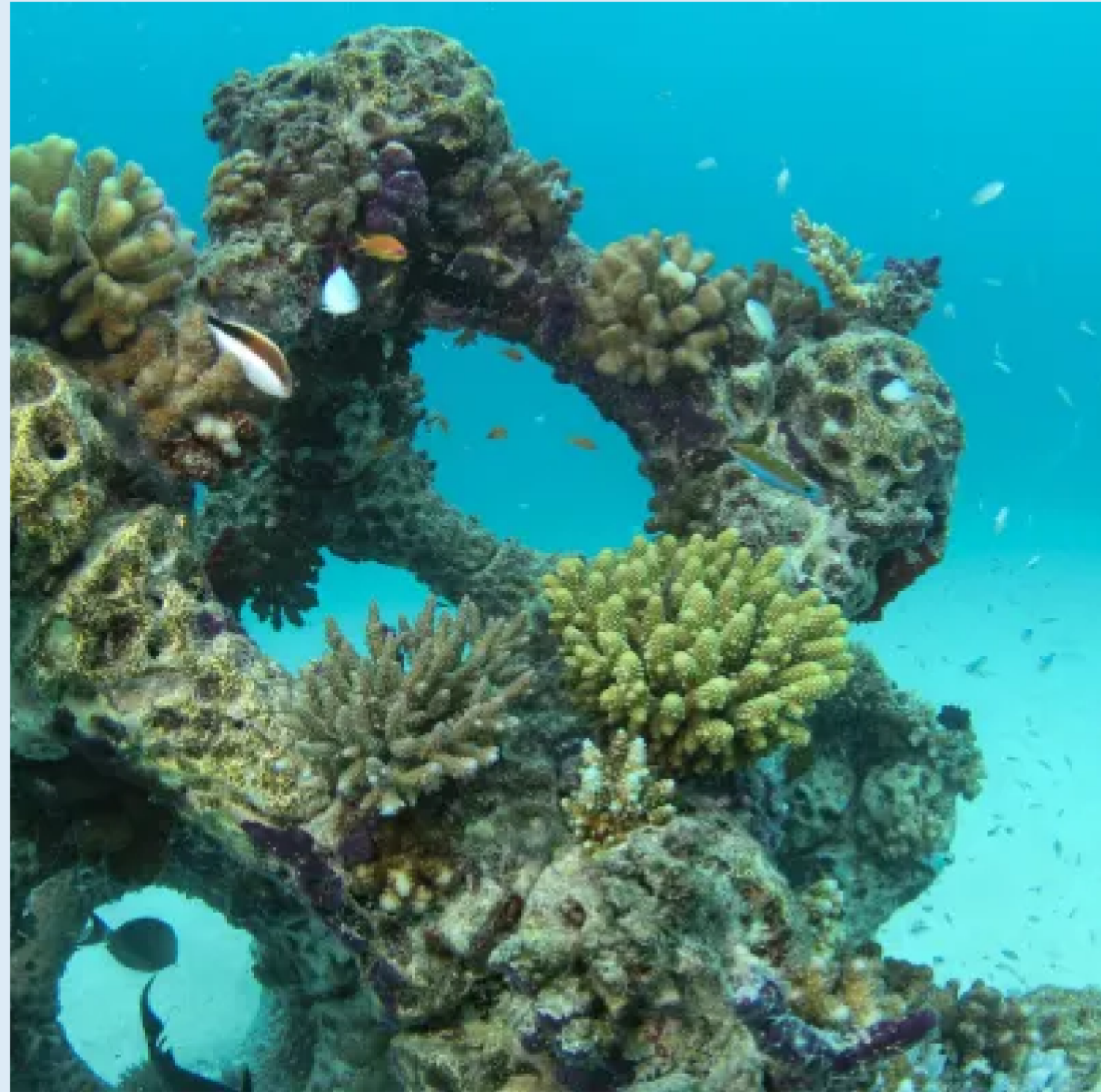
The Problem



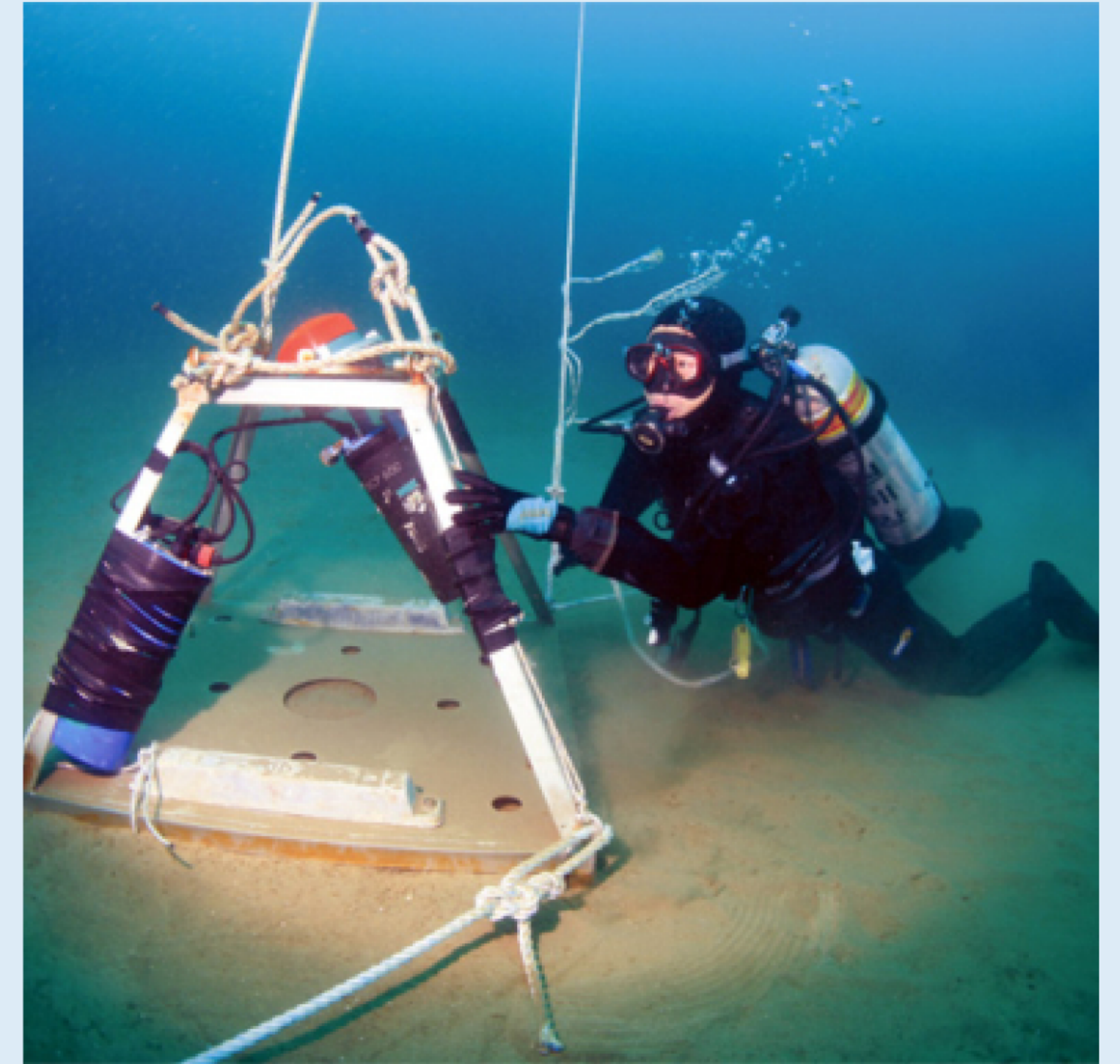
State of the Art



rrreefs



Reef Design Lab's MARS system

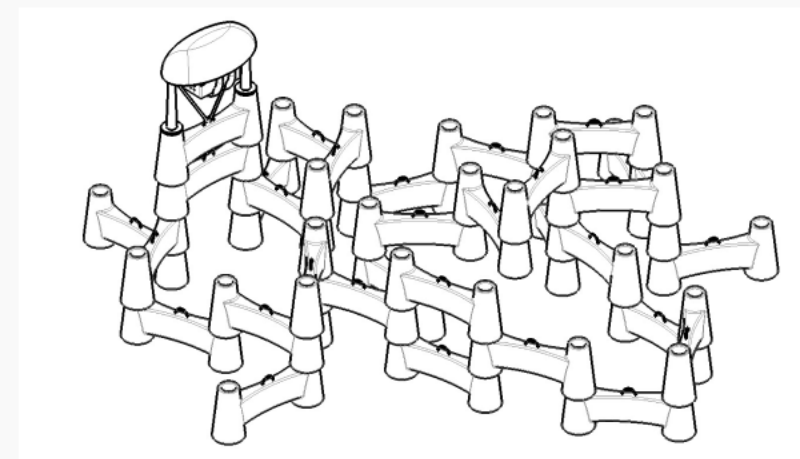


Maytech Engineering Co.



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Smart Modular Reef



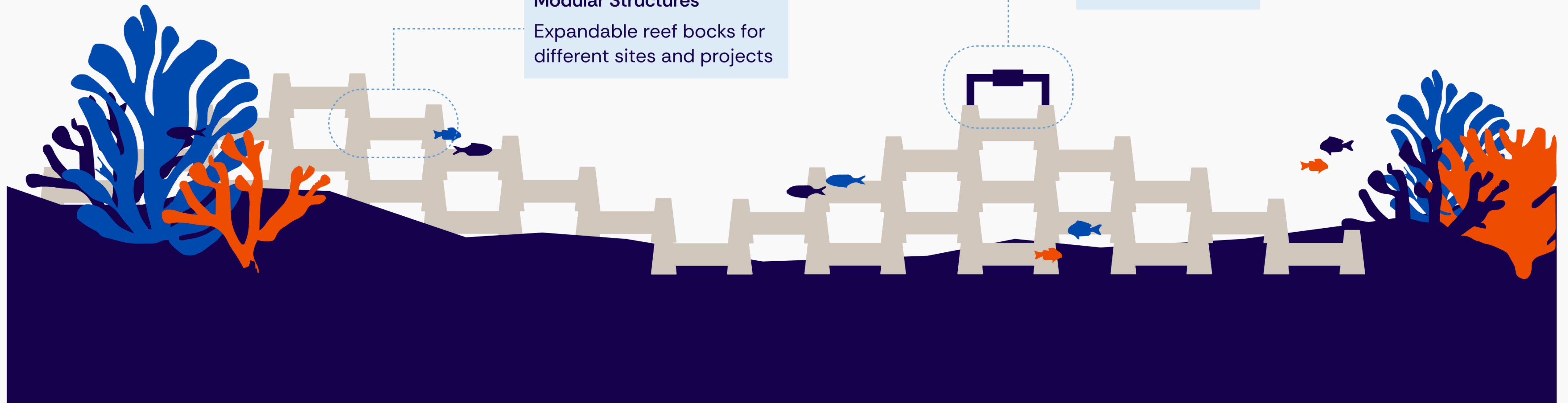
Modular Structures

Expandable reef blocks for different sites and projects

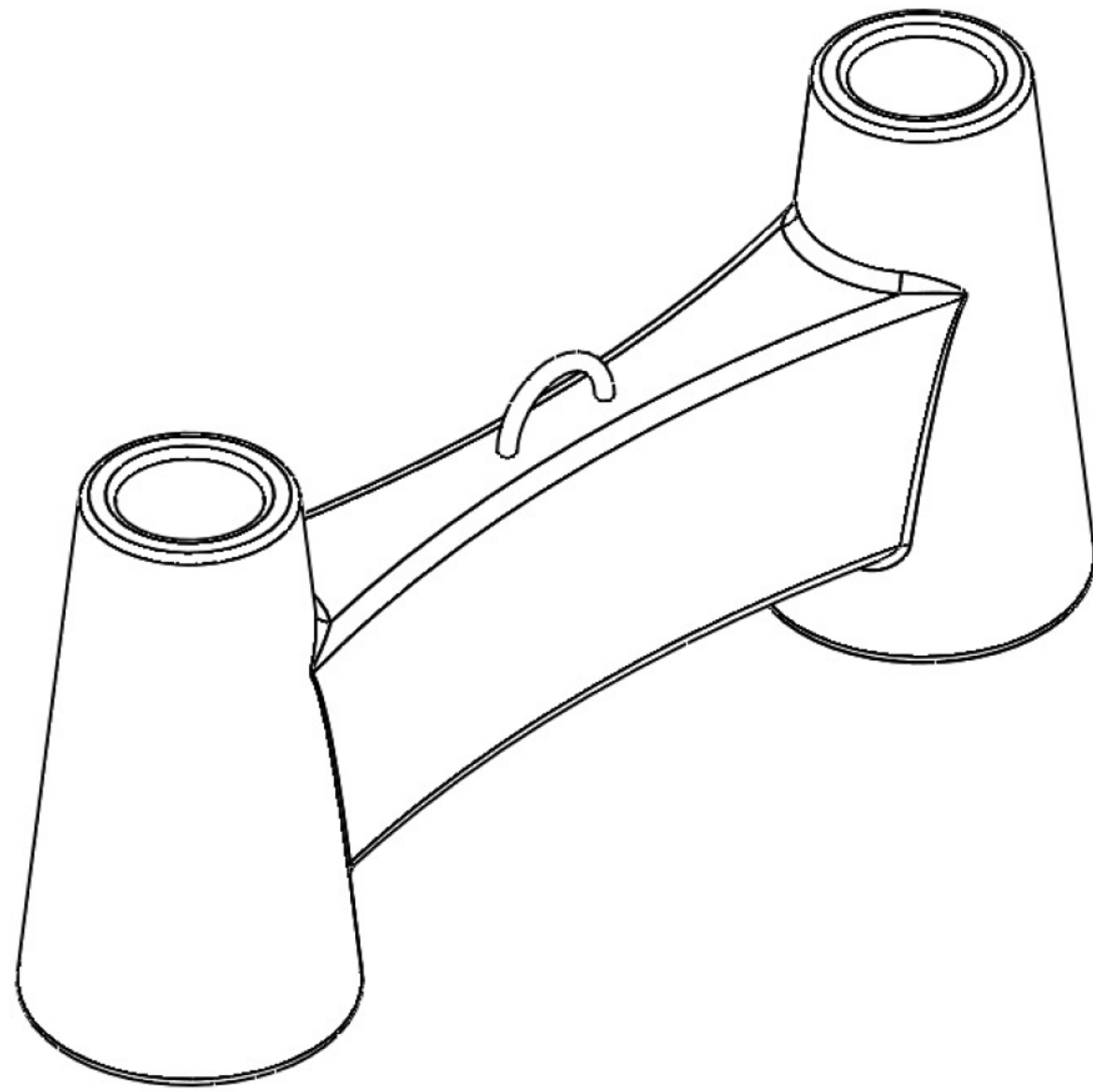


Smart Module

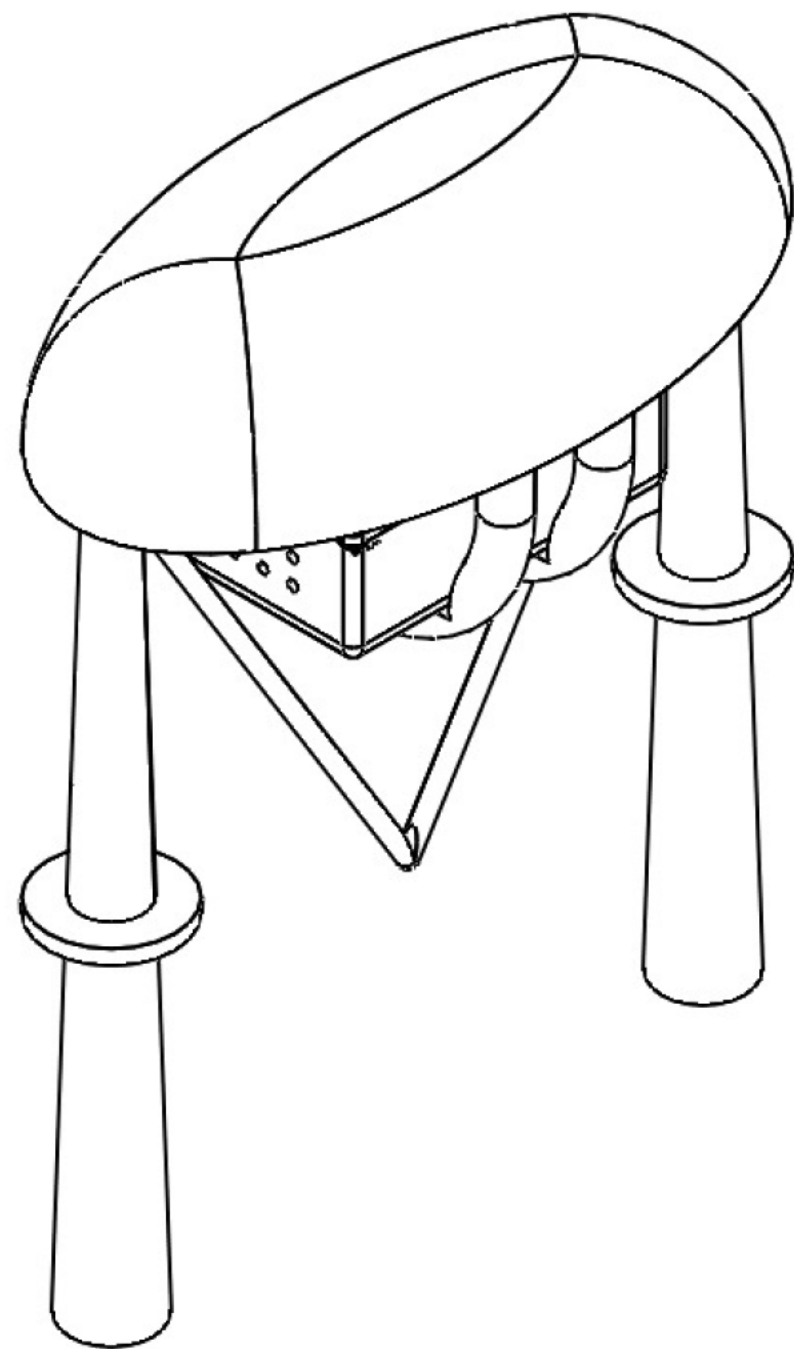
Collects Data for reliable tracking of the reef health



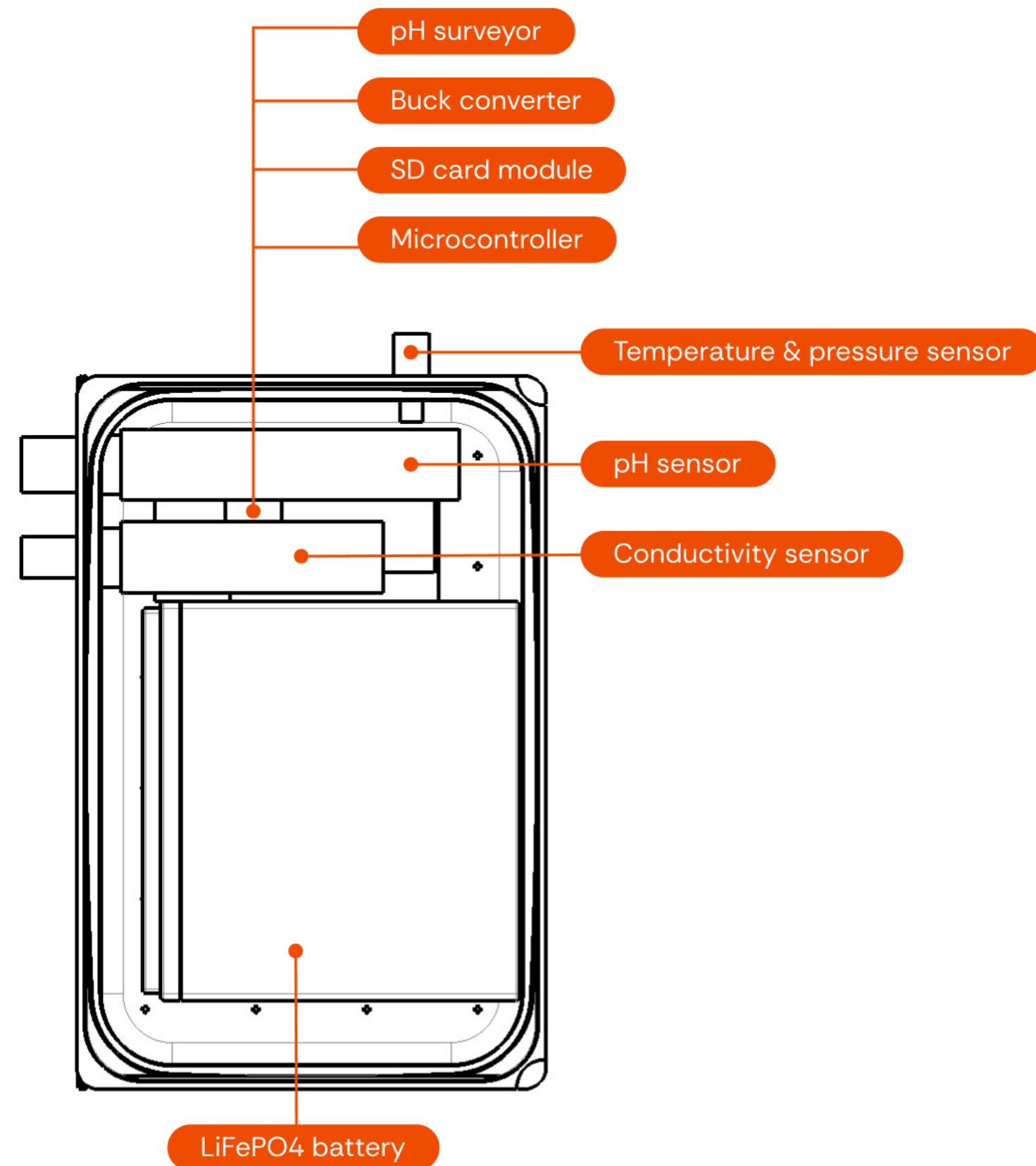
Reef Blocks



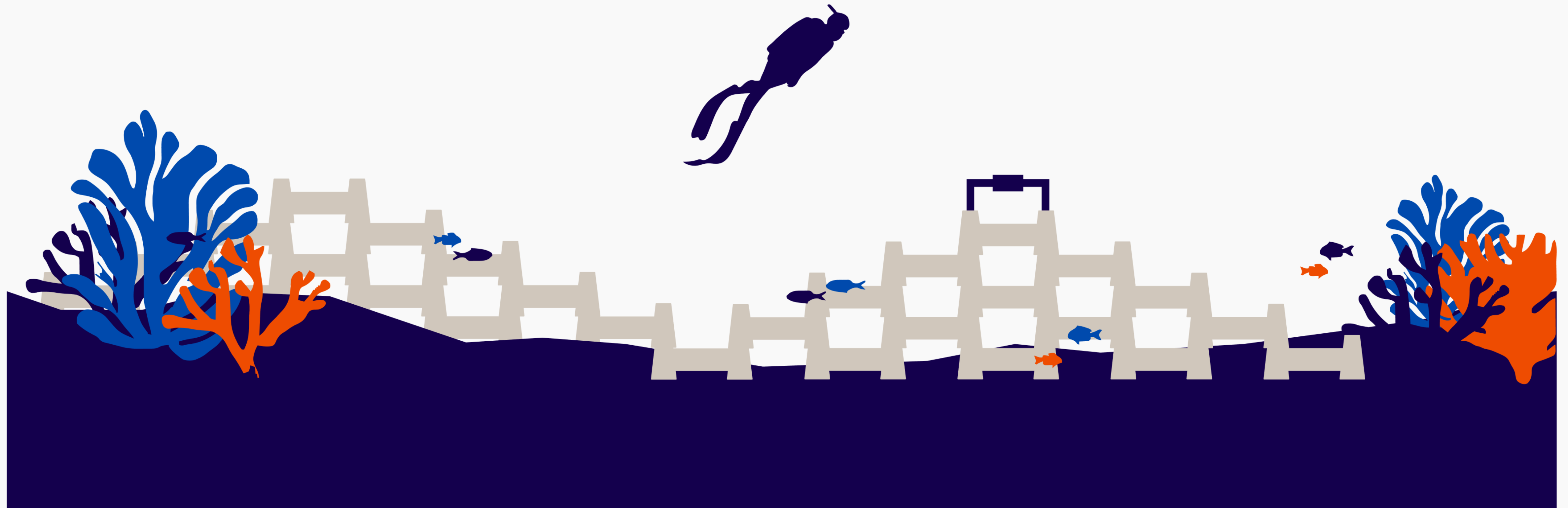
Smart Module



Smartlogger



How does it work?









Sustainability & Life Cycle



Materials



Modular design



Biodiversity



Economic value



End of life

Ethical Responsibilities



Engineering ethics

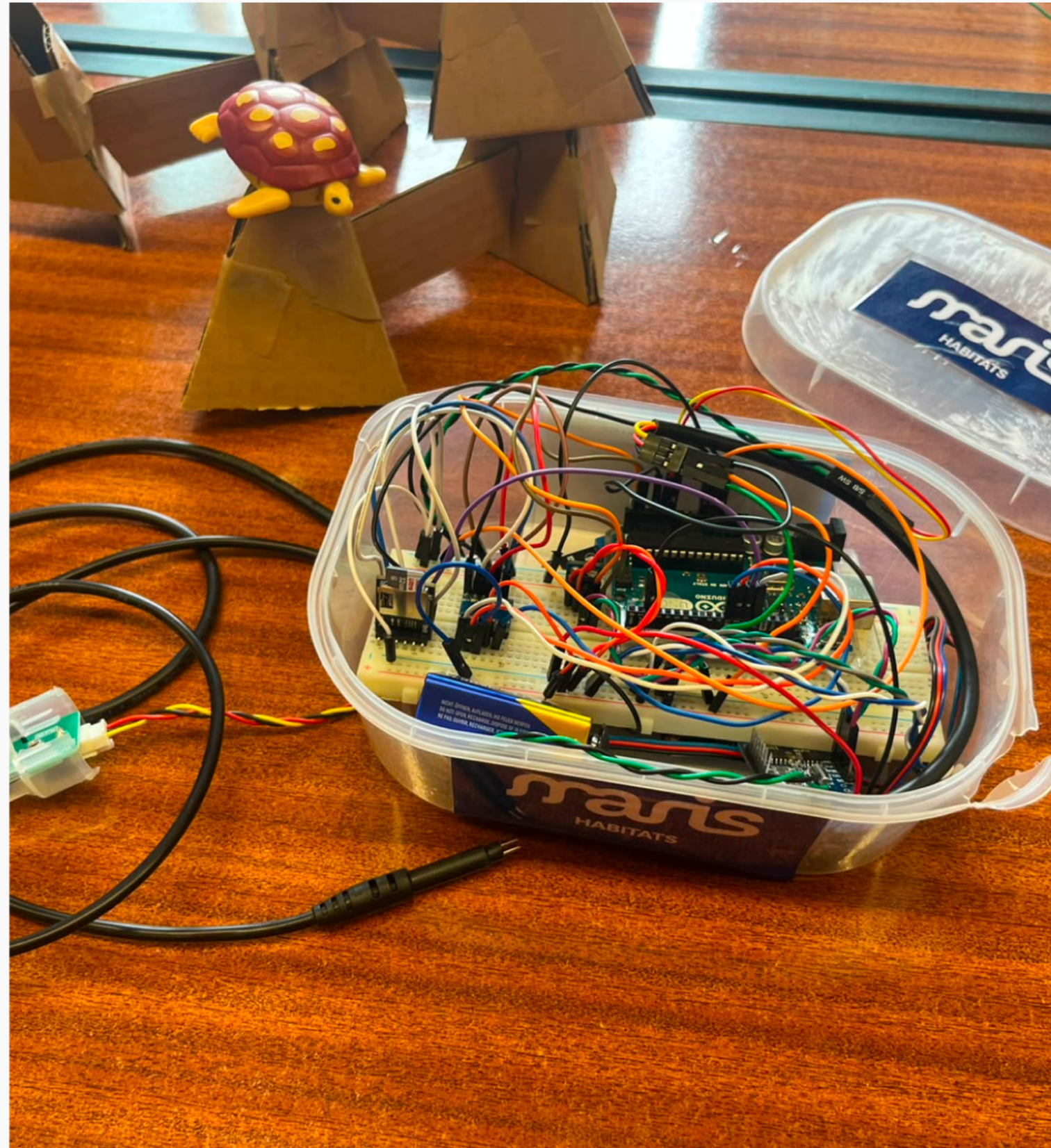
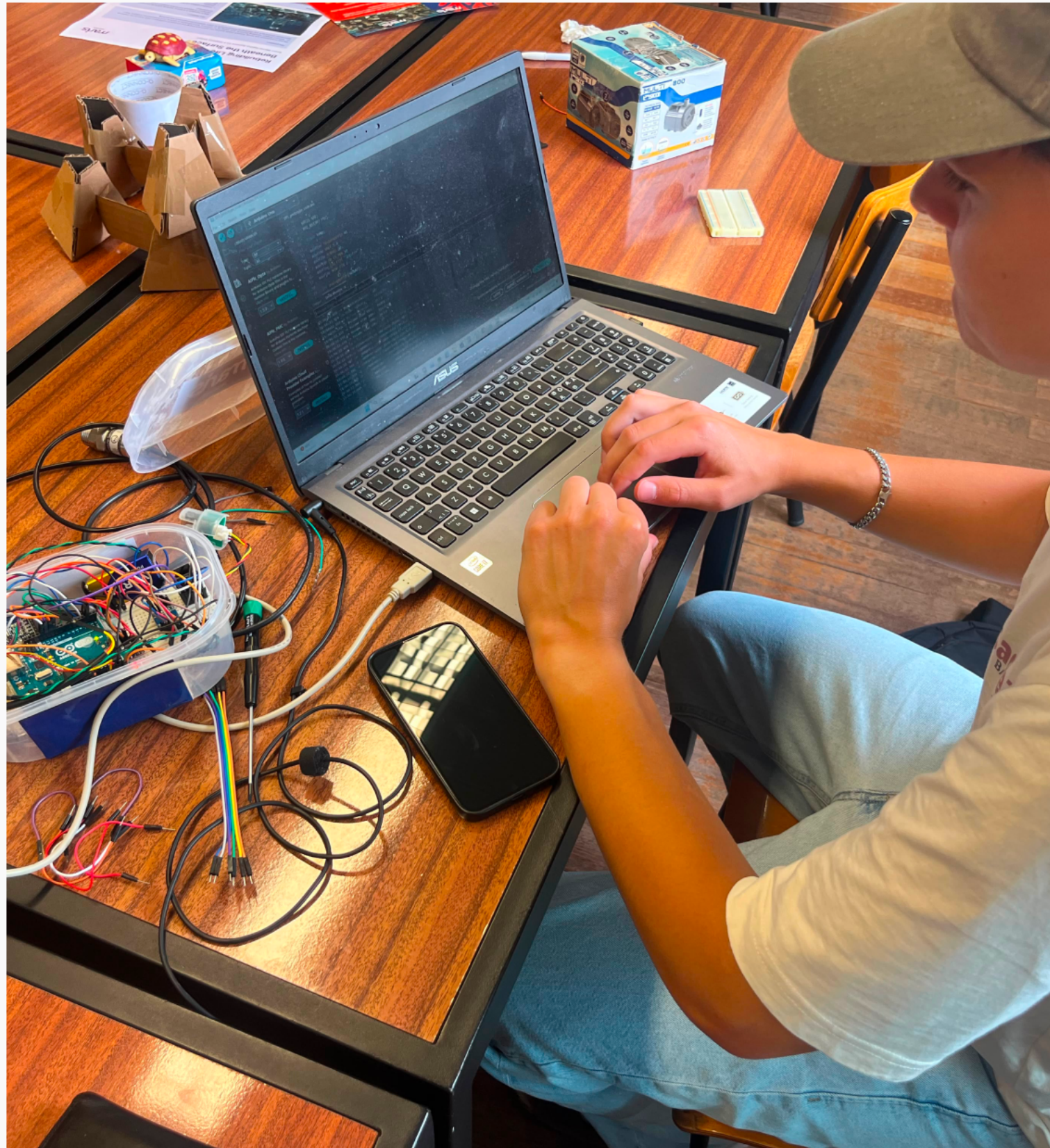


No greenwashing

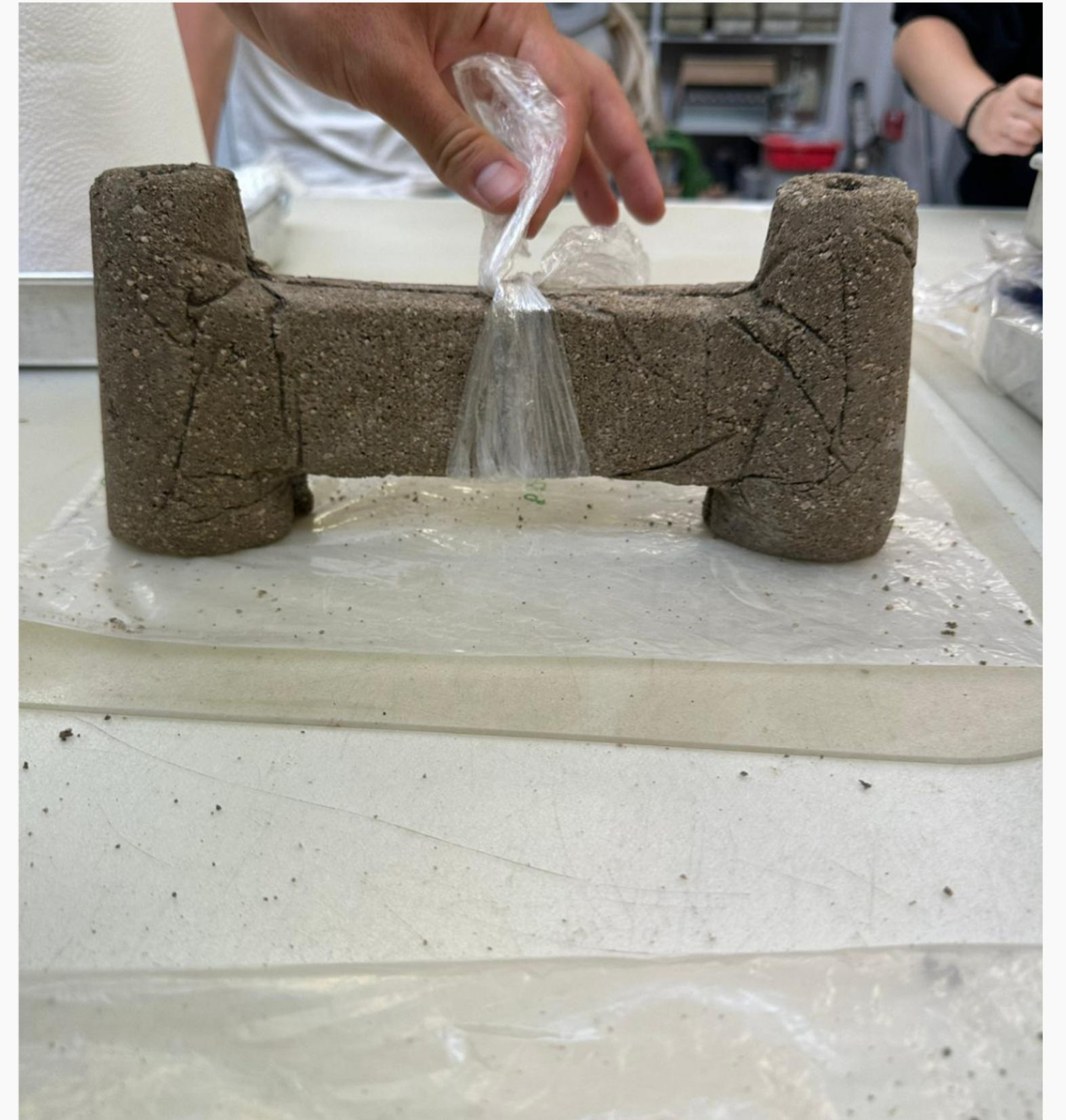


Data integrity

The Prototype



The Prototype



Marketing



Positioning

Modular reef infrastructure + environmental monitoring

Target Customers

Public agencies, research institutions, GOs & NGOs

Pricing Tiered model

Basic → Standard → Premium

Promotion

Institutions, pilot projects, conferences, technical brochures & website

Communication Materials



The image features a vibrant orange background. On the left side, there is a large, stylized blue graphic that resembles a leaf or a branch, with several pointed, rounded shapes extending from a central vertical stem. The graphic is composed of solid blue shapes with no internal details.

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Conclusions



Achievements

Full concept, model, prototype

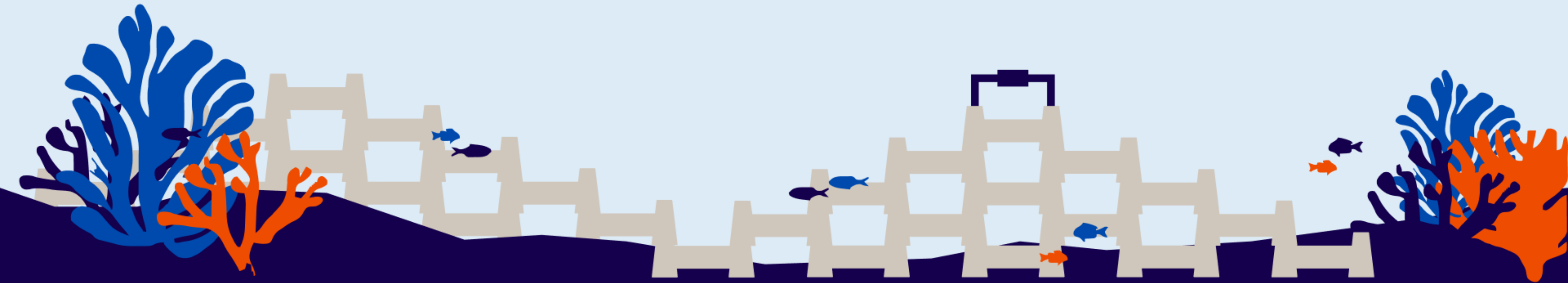
Limitations

Lab testing only, simplified smart system, ecological impact

Next Steps

Testing on-site, pilot project, partners

Join us in
rebuilding life beneath the surface!



Thank you!

European Project Semester
Instituto Superior de Engenharia do Porto

Hernán Nieto Marabini – Chaehee Kim – Ida Schmitt – Isak Björk – Louis van Nederkassel – Oda Fossvoll

