

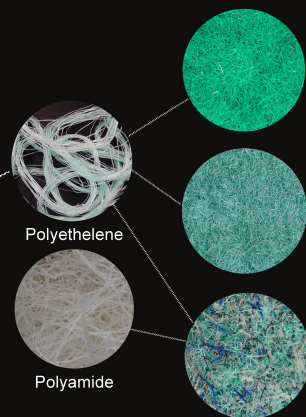
Azores EcoBlue

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Source: Azores Marine Inhabitants



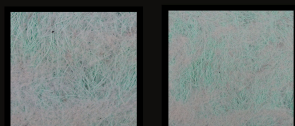
The set of research activities within the scope of the "Azores EcoBlue" project, in the fight against one of the main environmental problems at the ocean level, which is marine litter, is challenging, to say the least, and positively boosts the search for solutions in the development of innovative products with added value, with regard to the concepts of eco-design and the circular and blue economy.



Repurposed marine waste



Application of re-purposed Plastic fishing nets



Polyethelene

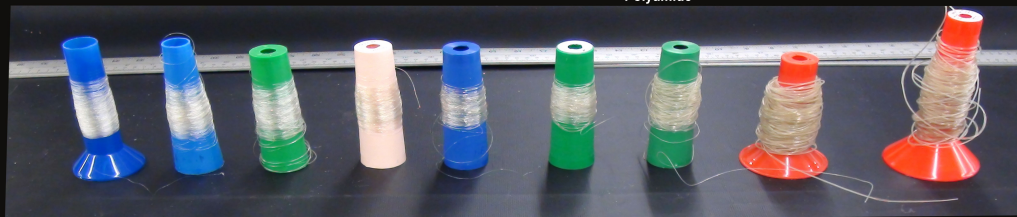


Polyamide



yarn

Recycling polyamides to fabrics



Up-cycling polyamides from oceanic litter into yarns for textiles to filaments for 3D printing

BIOCOMPOSITES made from invasive algae

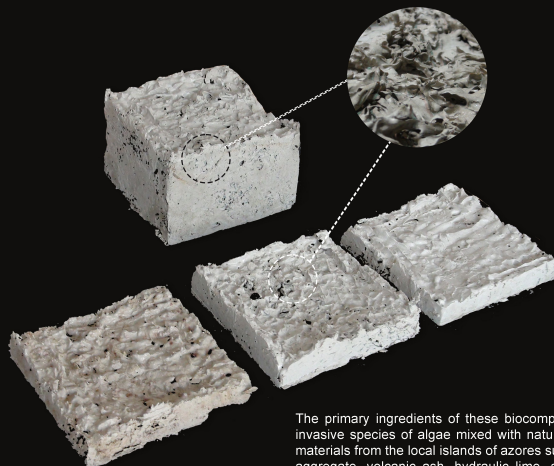
The focus of this research was to control and repurpose an invasive species of algae from east asia that has been threatening of the balance of marine ecology. The research team has been working on using this algae for creating new building materials that can be used as panels, partition walls and ceiling components that are sustainable and energy efficient.



Invasive algae RUGOLOPTERYX OKAMURAE



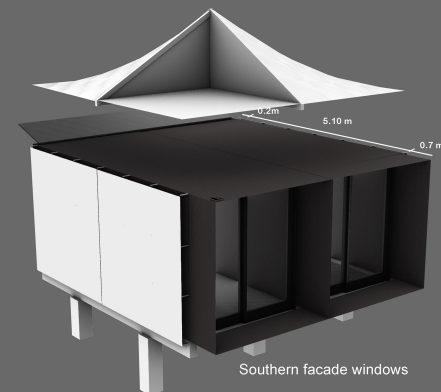
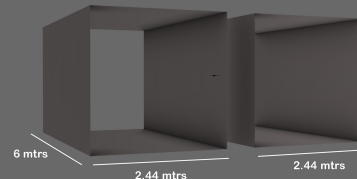
innovative biocomposites using invasive algal species



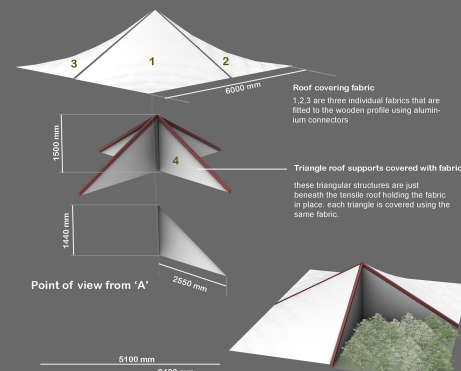
Experimental artwork from dried algae and lime to create texture by treating the algae for artistic purposes

The primary ingredients of these biocomposites is the invasive species of algae mixed with naturally sourced materials from the local islands of azores such as basalt aggregate, volcanic ash, hydraulic lime, alginates. The final result is still under process for testing for strength and mechanical test.

Two metal shipping containers



Southern facade windows



Point of view from 'A'

Point of view from 'B'

Dimensions	Area
Area of the roof covering fabric (1, 2, 3)	22 sq.m
Area of '1'	7.10 sq.m
Area of triangle roof supports covered in fabric	7.6 sq.m
Area of '4'	1.9 sq.m
Area of "Green roof"	6.4 sq.m

Proposed TEST CELLS to test thermal comfort of innovative materials