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BLUE GROWTH PROGRAMME
MIDTERM EVENT
17.10.2023

Azores Ecoblue

Paulo Mendonça

Professor Associado, Coordenador do Projeto na Universidade do Minho



A dvance
Z ero waste
O riginal
R eusable
E co-design
S ustainable
E xclusive
C onscious
O rganic
B ilievable
“L ess is more”
U nique
E cologic



Research team:

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Collaborations with other institutions:

CDRSP - Center for Rapid and Sustainable Product Development, IP- Leiria.

Florindo Gaspar

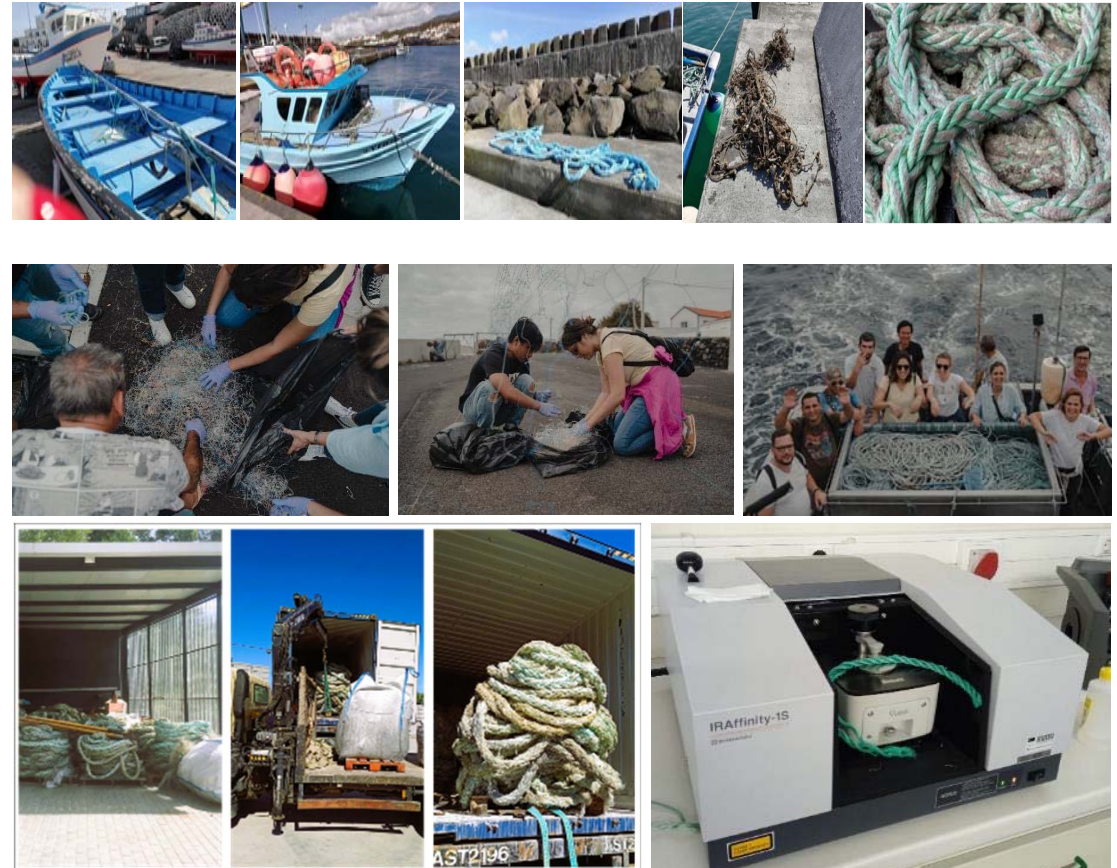
Artur Mateus

Ana Peixinho

Marco Coutinho

CVR – Centre for Waste Valorization, Guimaraes, Portugal

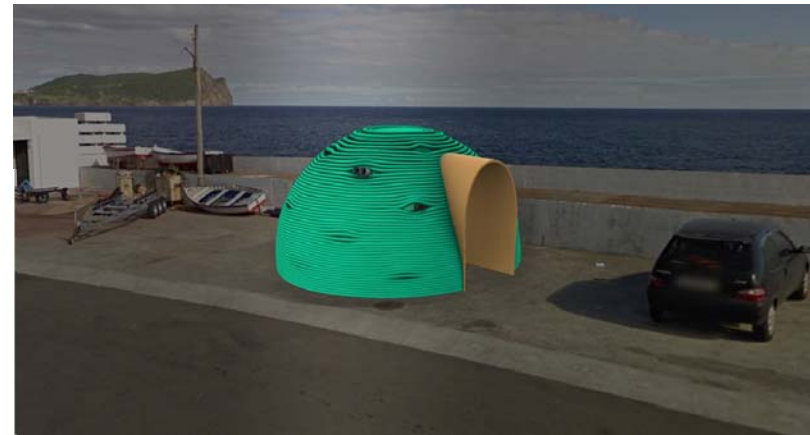
- Collection of wastes (over 20 tonnes) collected in the sea, beaches and ports.
- The sample was separated by type, such as fishing nets, fishing lines and different types of ropes and cables
- To identify the material, an analysis was carried out using Fourier-Transform Infrared Spectroscopy (FTIR), which measures the absorption of infrared radiation by the sample material versus wavelength. The polymer identified for the mooring cables was High Density Polyethylene (HDPE).
- Greater focus was given to the material coming from the mooring cables of fishing vessels, due to its high volume and evaluation as a source of material for textile structures and construction systems;





Prototypes produced with reused mooring cables and other wastes

Fisherman shelter in São Mateus v1
Fisherman shelter in São Mateus v2





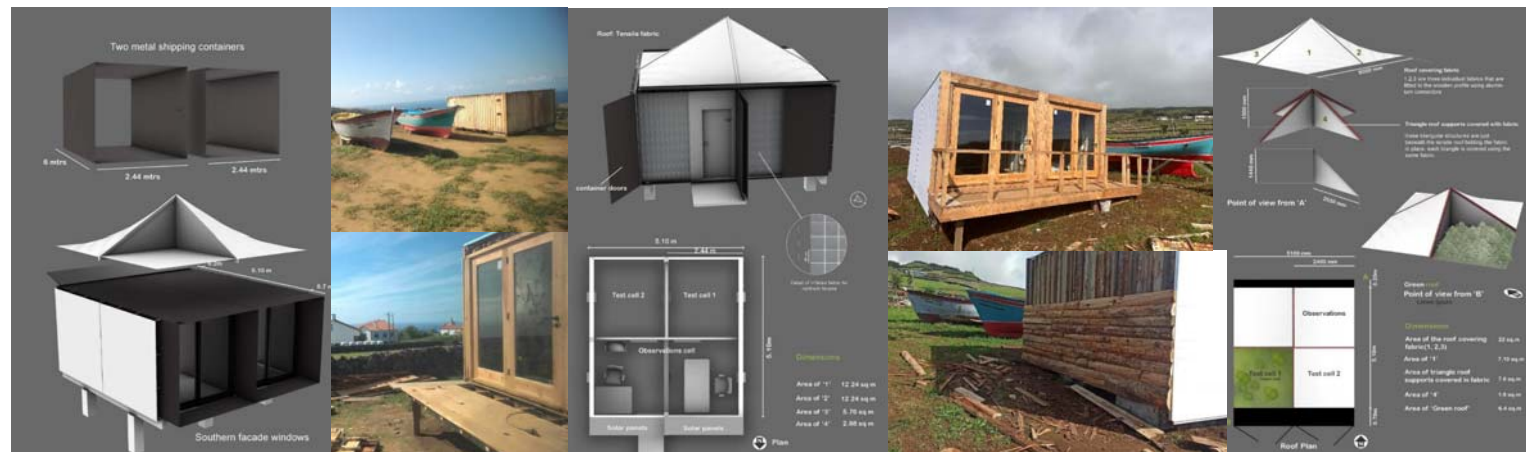
Laboratorial tests carried out in Textile Engineering Department UM



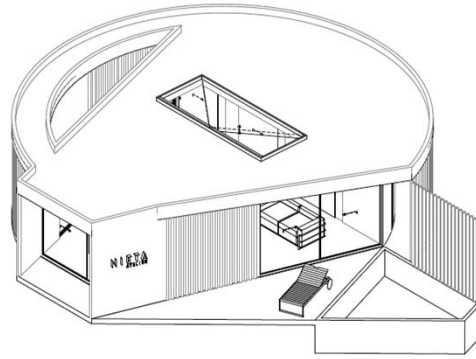
Equipment available in UM Schoop of Architecture for In situ tests to be carried out in Test Cells under construction in Azores Terceira Island



Laboratorial tests carried out in Center for Rapid and Sustainable Product Development, IP- Leiria

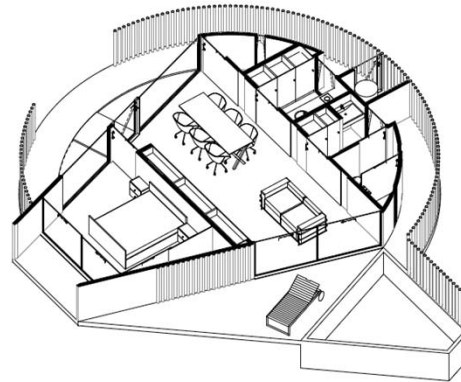


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SHOWROOM



Program operator:



Promoter:



Partners:



Universidade do Minho



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OKEANOS-UFç



AIRCENTRE



VISUAL THINKING



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EMPRESARIAL
DE PORTUGAL
Centro de Comércio e Indústria



TERinov



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ECONOMIA
E MAR



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THANKS!
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