

# **Azores Ecoblue**

Architecture and Construction Latest Developments

Paulo Mendonça

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Política do Mar

Research team in University of Minho School of Architecture, Art and Design and Lab2PT:

Paulo Mendonça, Associate Prof. School of Architecture, Art and Design Harish Daruari, Architect School of Architecture, Art and Design

Other contributors in EAAD:

Mohammad Fouad Hanifa, PhD Student School of Architecture, Art and Design

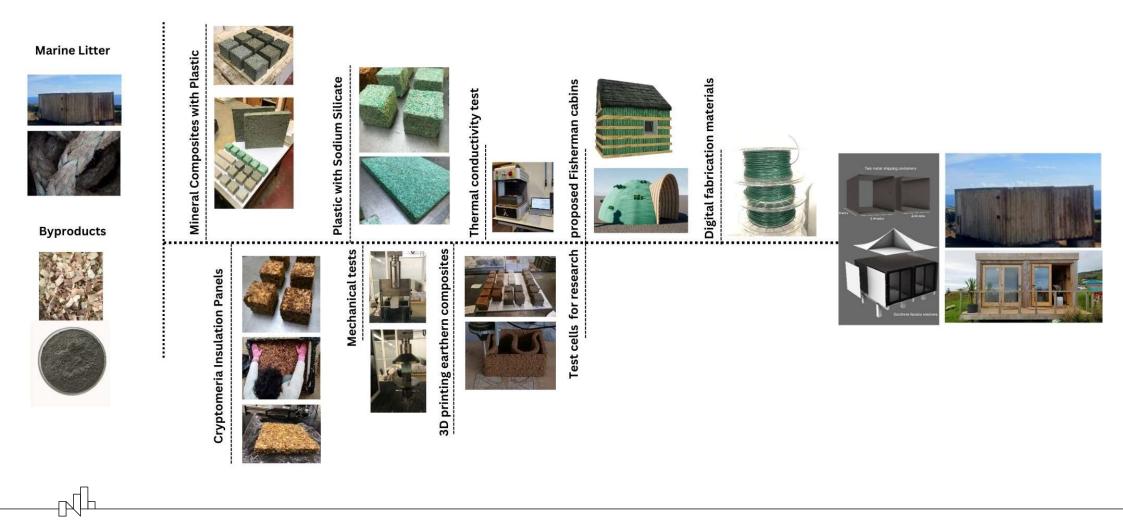
#### Collaborations of EAUM with other institutions:

CDRSP - Center for Rapid and Sustainable Product Development, IP-Leiria. Florindo Gaspar, Prof Artur Mateus, Prof Ana Peixinho, Engineer Marco Coutinho, Engineer PIEP - Centre for Innovation in Polymer Engineering CVR - Centre for Waste Valorization, Guimaraes, Portugal

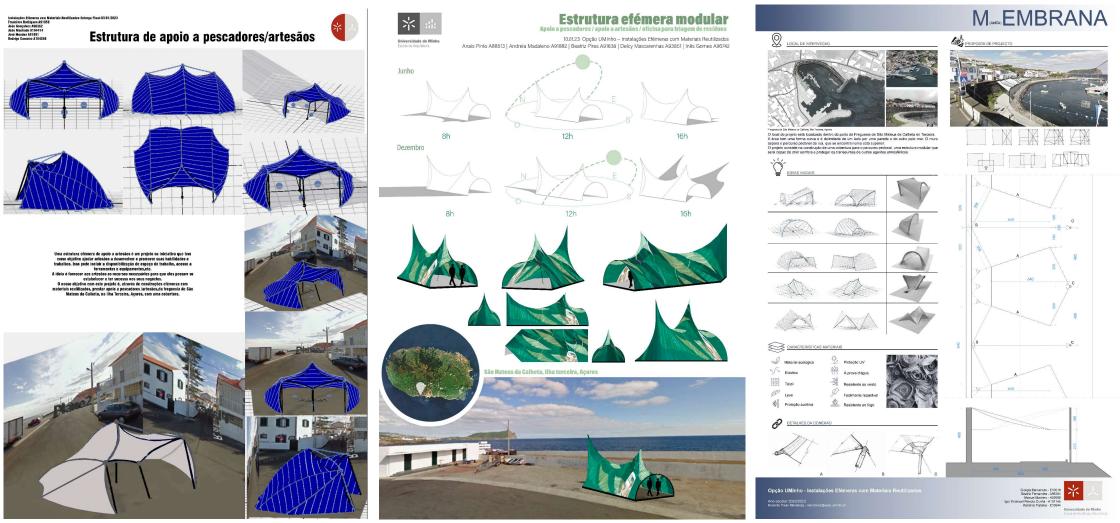




# **Building materials Research Map**







Proposals for fishermen shelters for São Mateus village port done by students on the Curricular Unit Ephemeral Installations with reused materials, 2022/2023 Coordinator: Paulo Mendonça

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## 40% - 70% recycled and byproduct materials





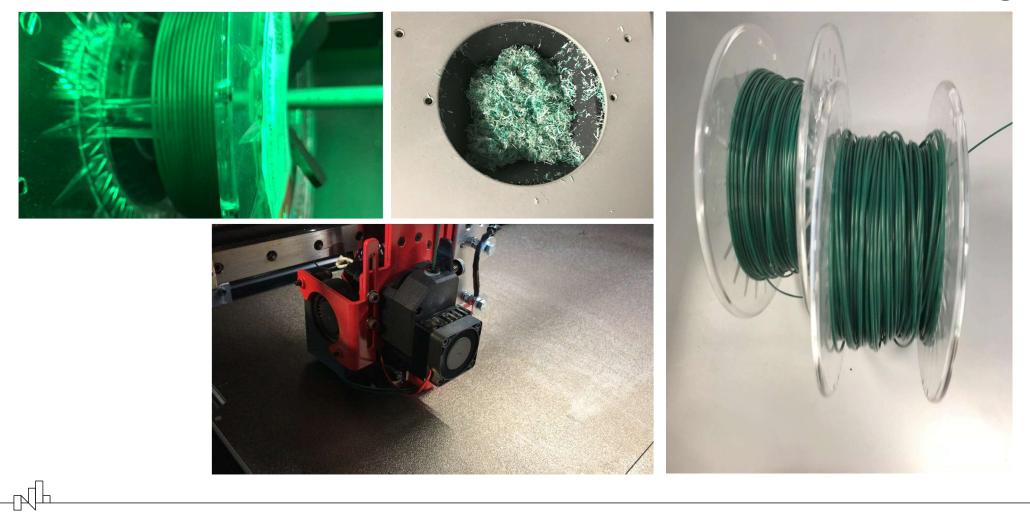
### Azores EcoBlue Cryptomeria Insulation







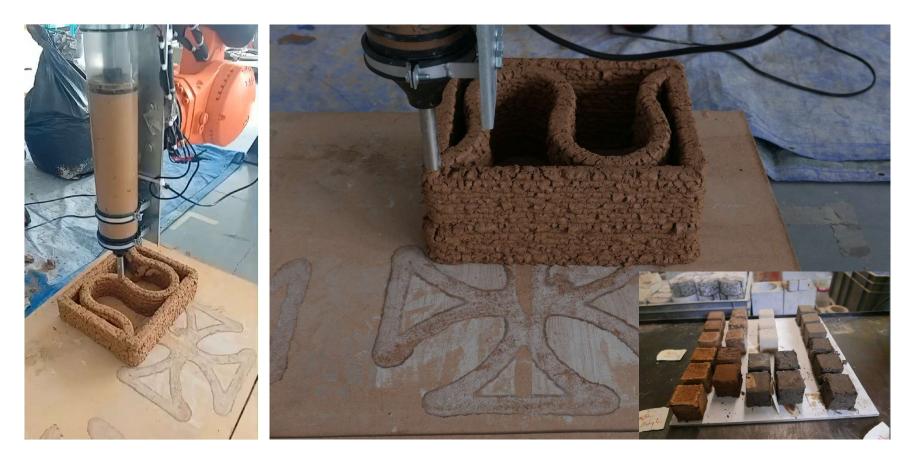
# Filaments for 3D printing



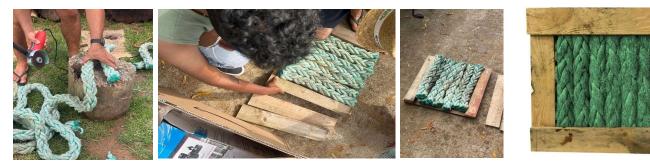




# 3D printing Earthen composites using byproducts







Prototypes produced with reused mooring cables and other wastes

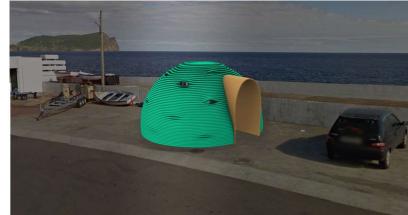


Fisherman shelter proposal for São Mateus v1 Fisherman shelter proposal for São Mateus v2

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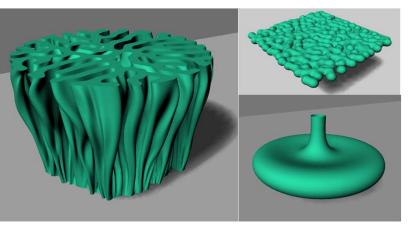


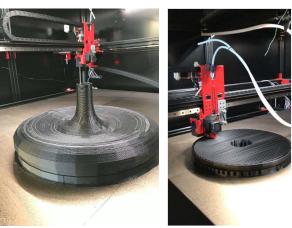


Recycling oceanic plastic for product design products

3d printing with recycled plastic

4 ecoproducts – AZORES ECOBLUE













Laboratorial tests carried out in Materials's Lab of Civil Engineering Department UM



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



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







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