



Juan Fernández Circular

PROTOTYPING USEFUL PRODUCTS FROM RECYCLED PLASTICS FOR THE JUAN FERNÁNDEZ ARCHIPELAGO COMMUNITY

KEY WORDS

CIRCULAR ECONOMY,
RECYCLING,
POLYPROPYLENE

DESCRIPTION

An R&D initiative in which USACH, through the LEMAA lab, takes part in the “Juan Fernández Circular” project promoted by CircularTec and funded by ANID, addressing plastic waste accumulation in the archipelago through a circular-economy approach. In a first phase, a territorial survey identified plastic types/volumes and locally relevant product needs; then LEMAA characterized common plastics, identified polypropylene as a suitable material, and developed product prototypes (including fishing lures and clamps) for local use

POTENTIAL BENEFITS OR IMPACTS

In-situ valorization of archipelago plastic waste through circular economy practices;
Creation of useful products for the local community from recycled plastics

TECHNOLOGY MATURITY LEVEL (TRL)

TRL 5: Validation in a relevant environment

AREA OF APPLICATION

Plastics

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