BLUECYCLE
BEYOND MARINE PLASTIC WASTE

640,000 kgs fishing gear are lost at sea annually
30% of all marine plastic in the EU is fishing gear
Only 1.5% of this fishing gear is recycled

Holistic Approach

Our sources

- BlueCycle fishing equipment collection points
- AR marine litter collection stations
- Manufacturers of fishing and shipping gear
- Aquacultures & Mussel farms
- Marine and Coastal clean-ups of collaborating institutions and NGOs

530,000 kgs

Material categorized depending on condition upon arrival (BlueCycle Condition Scale)

Category 1a. Pre-Consumer - Almost excellent condition

Category 1b. Pre-Consumer - Medium condition

Category 2a. Post Consumer - Good Condition. Minimal organic and other matter detected.

Category 2b. Post Consumer – Obvious organic and other matter and possible degradation detected

Category 2c. Mixed Waste - Maximum organic and other matter and possible degradation detected

Then by material type

- **PP** (ropes, nets, fabrication waste, mussel farm nets)
- **PE** (nets, aquaculture nets, mussel farm nets)
- **PA6** (ropes, aquaculture nets, gilnets)
- **PES** (ropes)
- **HDPE** (ropes, nets, coverings, casings)
- **Dyneema** (ropes, nets)

PRE CONSUMER FABRICATION WASTE
POST CONSUMER USED MATERIAL

Pollutants composition

- Algae (polyssacharrides, proteins, lipids)
- Seashells (calcium carbonate with only a small quantity of protein 2%).
- Egg case (Chondrichthyes) (collagen protein strands)
- Soil dirt primarily chemical composition is Chloride (<50%), followed by Sodium (¬±30%) and Sulphate and presence of Magnesium >5%, >2%, Calcium and >2% Potassium.

The BlueCycle Lab

The first zero-waste specialized center for the treatment and recycling of marine plastic waste.

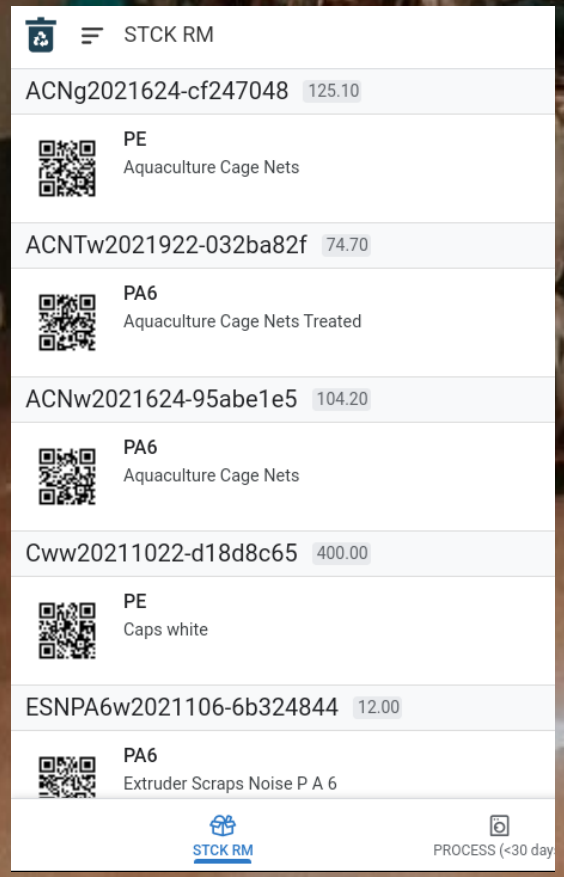
Hosting the first robotic Large-Scale 3D Printing Lab in Greece. Operated by The New Raw

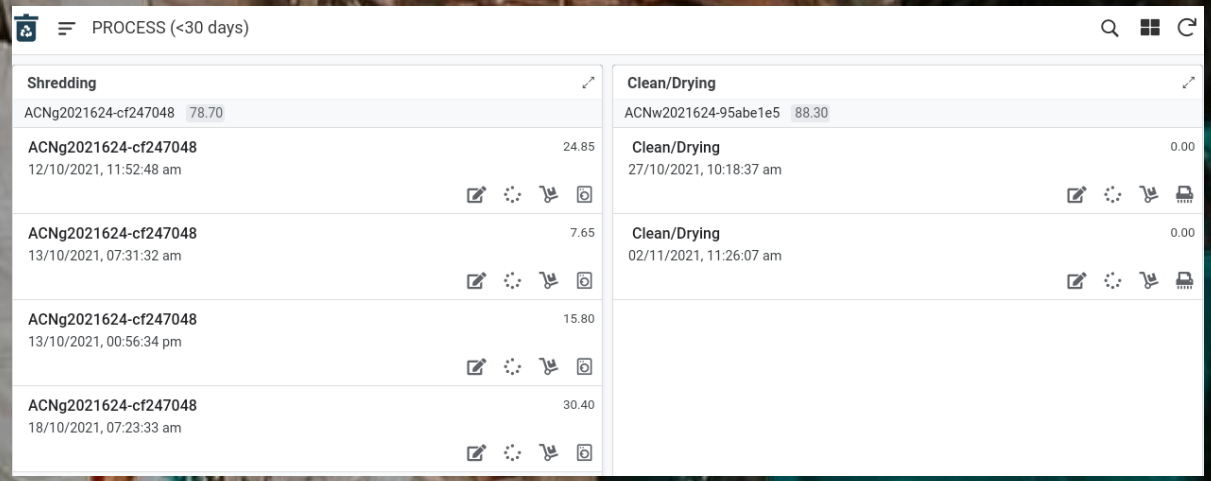
A place to test innovative ideas and develop solutions to the marine plastic waste problem.

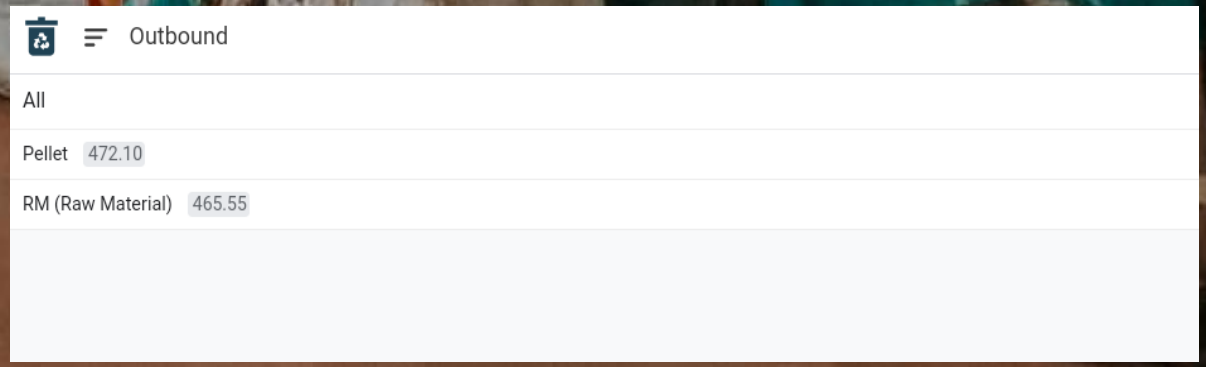
R&D – product development, material composition, life cycle analysis, waste tracking

100% recyclable and traceable products

Ensuring Material Traceability for Life Cycle Analysis (in-house app development)







BLUECYCLE
PE

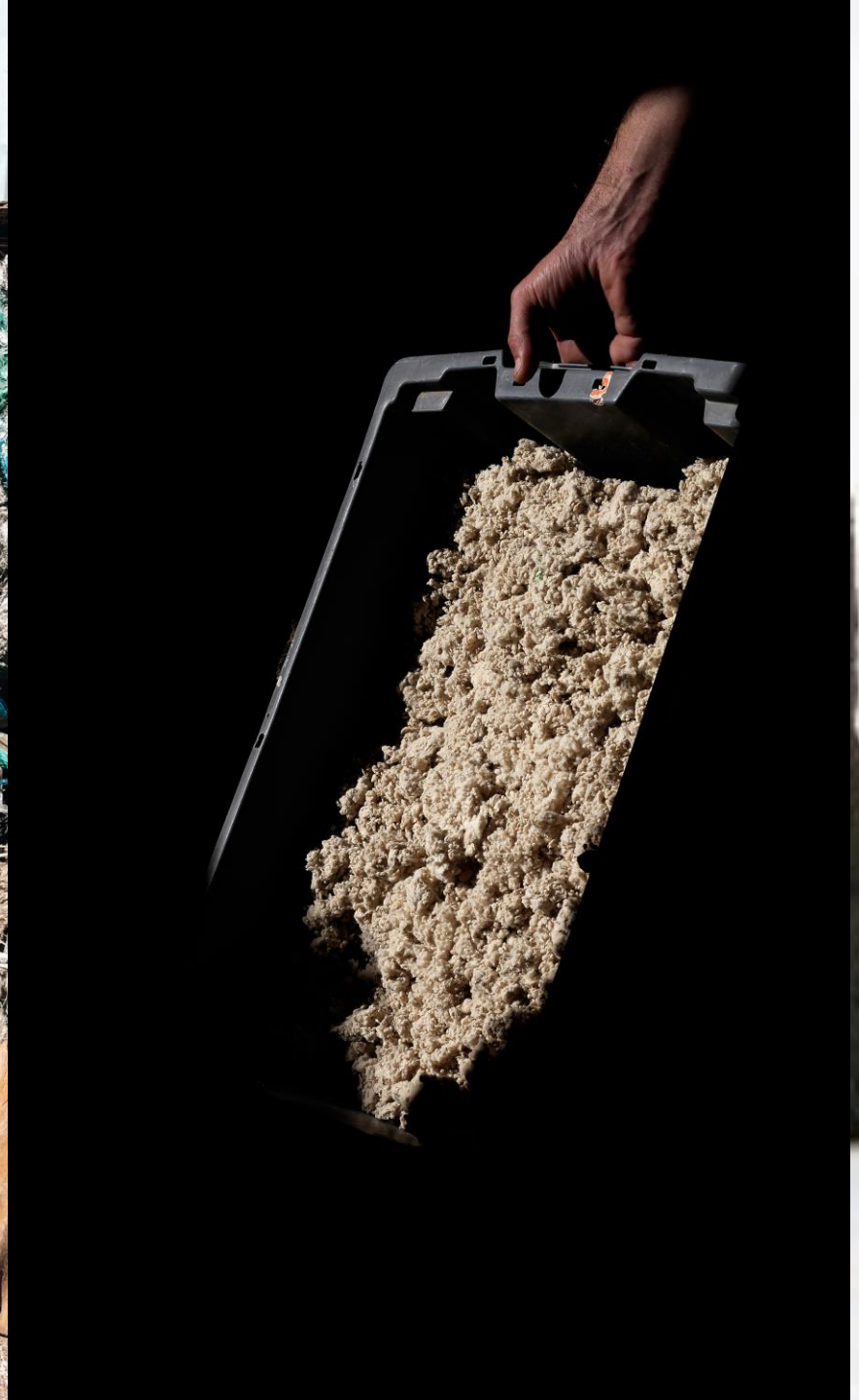
PA6

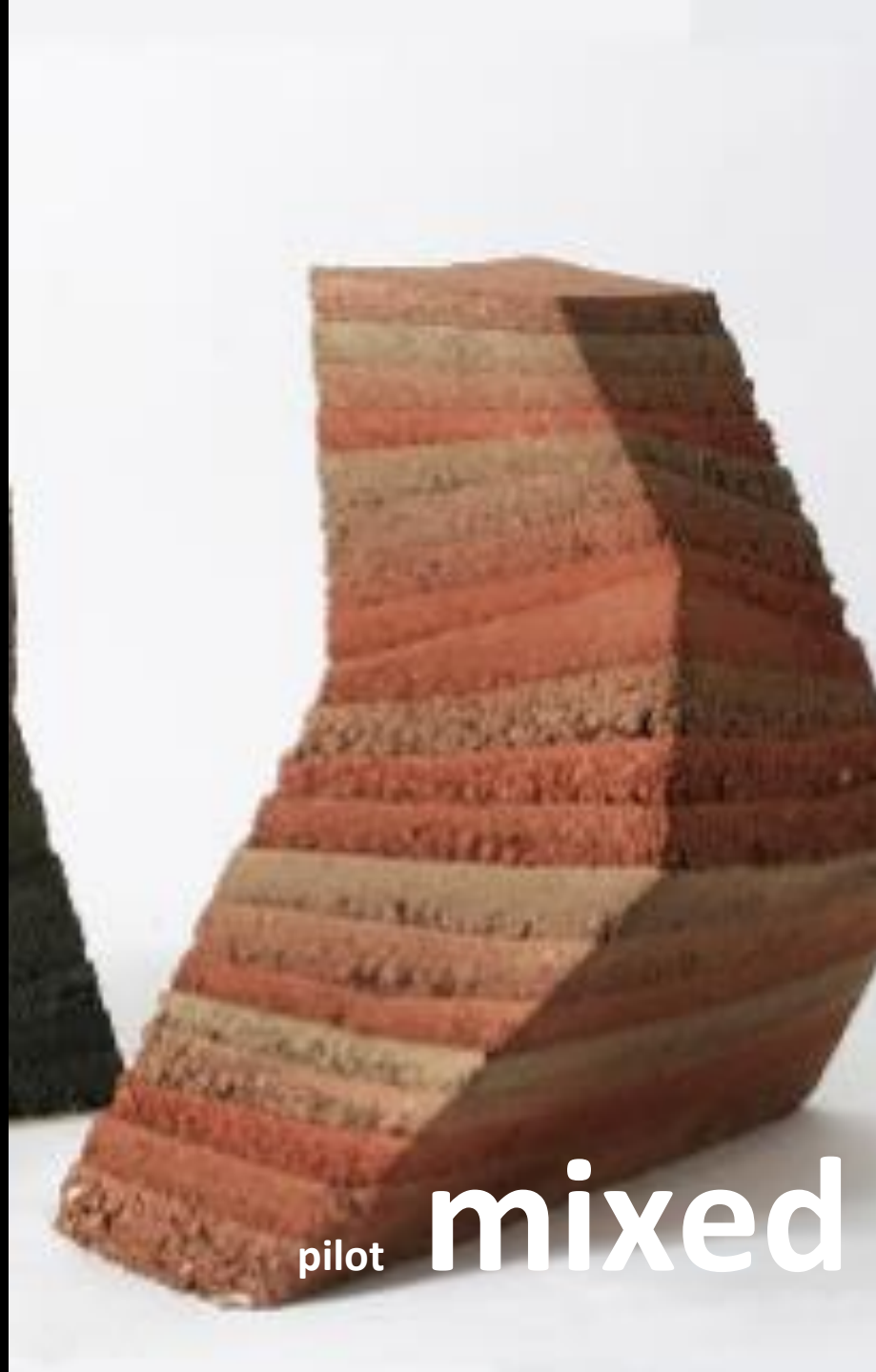
PA6

PP

PP

pilot
PA6





pilot **mixed**

Our work in the community

Engagement with all stakeholders (government, industry, local communities)

Highlight the qualities of fishing and shipping equipment and its potential as a high-quality material and not as a waste

Go to the source (fishing harbors, industry)

Apply circular economy principles at every stage of the process.

Our Goals

Continuing research for fishing & shipping gear recycling

Optimization, certification of the 3-step “BlueCycle holistic process”

In- situ material Processing

Under the auspices of

AIKATERINI LASKARIDIS FOUNDATION

Network of partners

THE NEW RAW

ΠΛΑΣΤΙΚΟΥΡΓΕΙΟ SHOP & LAB

A.C. LASKARIDIS CHARITABLE FOUNDATION

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