



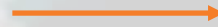
Challenges and Opportunities for Collecting and Recycling End of Life Fishing Gear

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Background



- Coordinating global network of solutions experts
- Share expertise and create guidance
- Develop projects
- Help scale and replicate successful models



Approaches to
collecting and
recycling end of life
fishing nets

What can you make from fishing nets?



Interface carpet: Net-works project, Philippines / Slovenia

Adidas / Parley trainer



Verdura shoes, Italy

Healthy Seas,
Netherlands / Slovenia



Axiom cycling gear, Canada



Bureo frisbee: Chile / USA



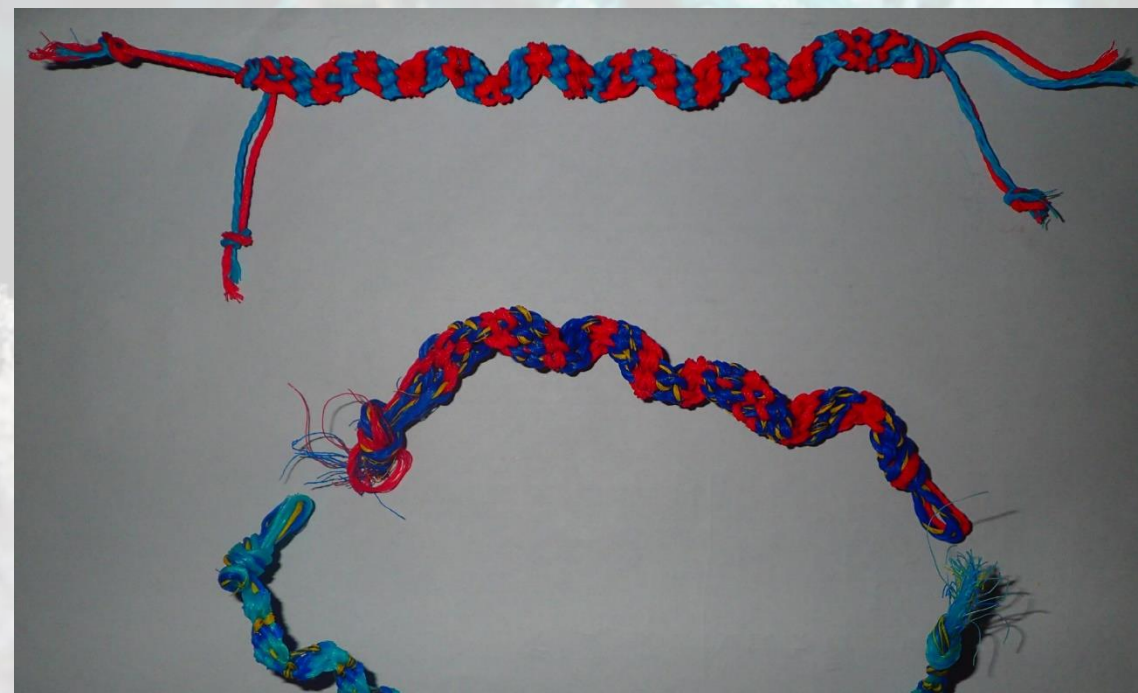
And more...



3D printing from nylon nets by
Fishy Filaments, Cornwall UK

Artwork by Katrina Slack, UK

Bracelets by Olive Ridley
Project, Pakistan



Logistics

Collection, cleaning, segregation, transportation
– unique challenges

- Ascertain material
- Identify process for segregation, cleaning (labour intensive!) and transport
- Engagement with fishing community
- Install portside collection facility



Challenges

- Lack of local recycling facilities
- Cost / benefit of long distance transportation
- Contamination
- Low value of PE and PP compared to nylon
- Portside coordination and logistics



Chemical vs Mechanical Recycling

Chemical: eg Aquafil, Slovenia

Depolymerise and back to virgin nylon

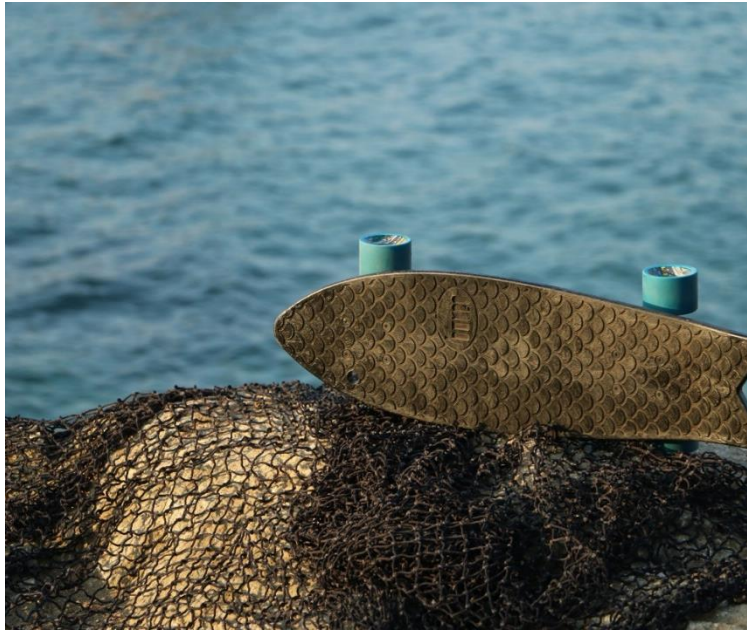
Mechanical: e.g Plastix, Denmark

Shredding and melting into pellets, lose some quality

Other options: local recycling facilities, community crafting / upcycling



Photo courtesy of Plastix



Case study: Bureo

Case study: Bureo



- ✓ Inclusive business model: end of life nets collected from coastal communities in Chile → job creation and improved waste management
- ✓ Nets recycled in zero waste process resulting in 70% reduction in carbon emissions compared to virgin plastics
- ✓ New premium products created with long life span, easily disassembled for recycling = truly closed loop
- ✓ Funds diverted back into coastal projects that benefit local community
- ✓ Nets now have value = reduction in discarding

Learnings from successful models



What's next?



- Scale and replicate successful models in 'hotspot' areas using data from GGGI portal
- Continue connecting expertise around innovative approaches through webinars, presentations, networking, innovation competitions
- Reduce barriers to responsible behaviour through leveraging supply chain demand for circular economy
- Fish Aggregating Device retrieval– experimenting with what other components can be viably recycled
- And much more!

Keep positive by re-framing the debate > waste
as resource



Thank you – any questions?

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