

# Circular Economy - Fishy Filaments

Chris Ranford

Cornwall & Isles of Scilly FLAG



# FLAG overview

50 fishing harbours

1000+ fishermen

600+ vessels

50 species of fish landed

Mixed fishery – pots, nets, trawl, lines



Marine  
Management  
Organisation





Supported by the European Fisheries Fund



Marine Management Organisation



# FLAG Strategic themes as follows

Safe working harbours

Encouraging and supporting youth into fishing

Innovation, research & diversification





Supported by the European Fisheries Fund



Marine Management Organisation



# Life cycle of a nylon net

Manufactured in Japan

Distributed globally to fishing industry

Set into nets locally, dependent on fishery

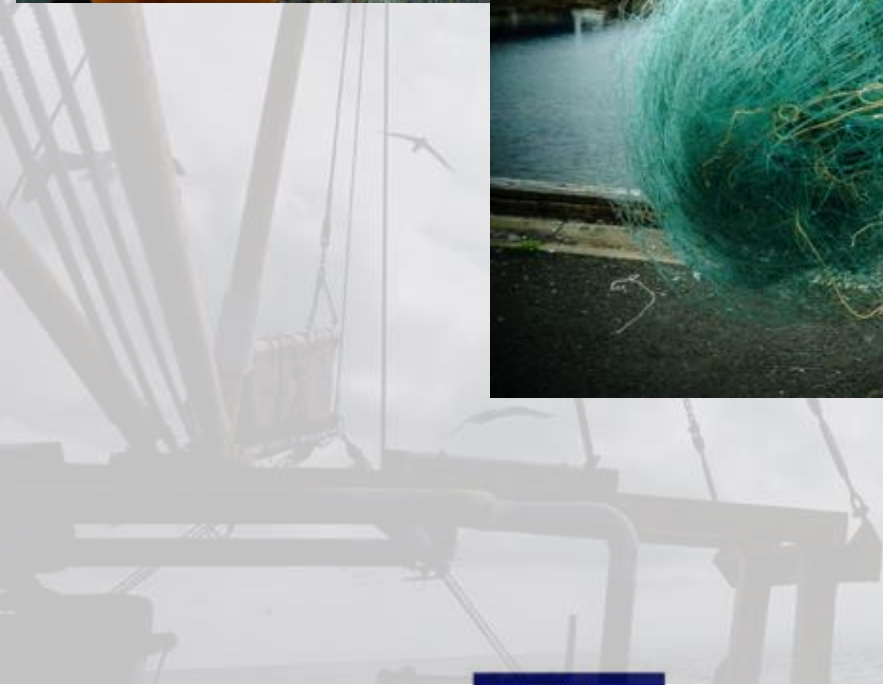
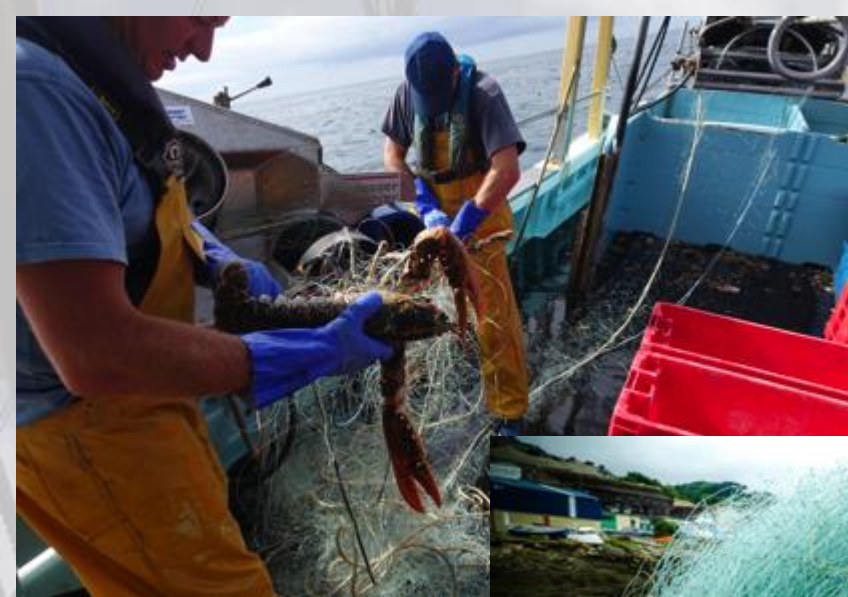
As soon as net is created its life cycle has begun

Fishing typically for 3-6 months before no longer useable

Disposed to landfill – very short lifecycle

**£400 per ton for disposal – to landfill!**







Fishy  
Filaments

Recycling marine plastics into 3D printer filament.

A Cornish brand who specialise in recycling marine plastics into 3D printer filament

Focus on reculying nylon monofilament net into filament and granules

Onsite at harbour where nets are disposed

No transportation (time or £)

Nets are a free resource to Fishy Filaments and no cost to the industry

Creation of a highly valuable and fully tracable product (£80 per kilo)







# Fishy Filaments

Recycling marine plastics into 3D printer filament.

## The process



Supported by the European Fisheries Fund



Marine Management Organisation

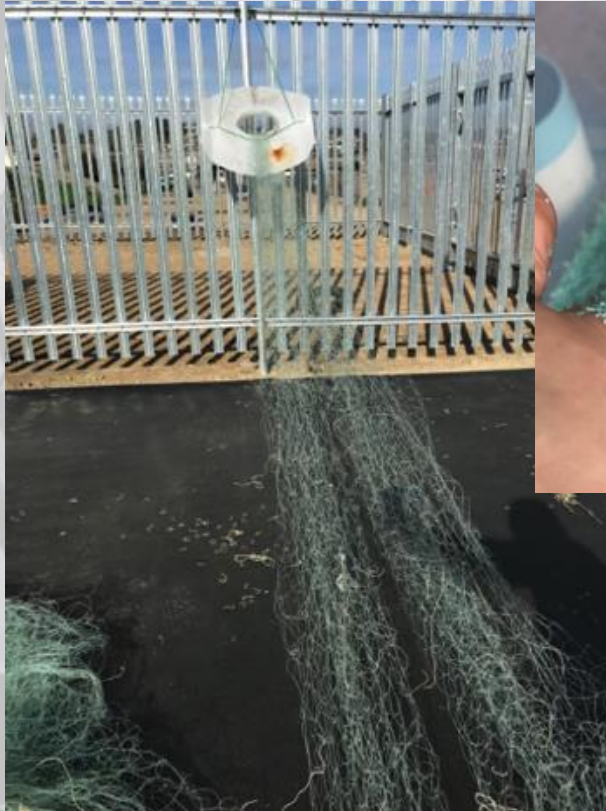




# Fishy Filaments

Recycling marine plastics into 3D printer filament.

## The process



Supported by the European Fisheries Fund



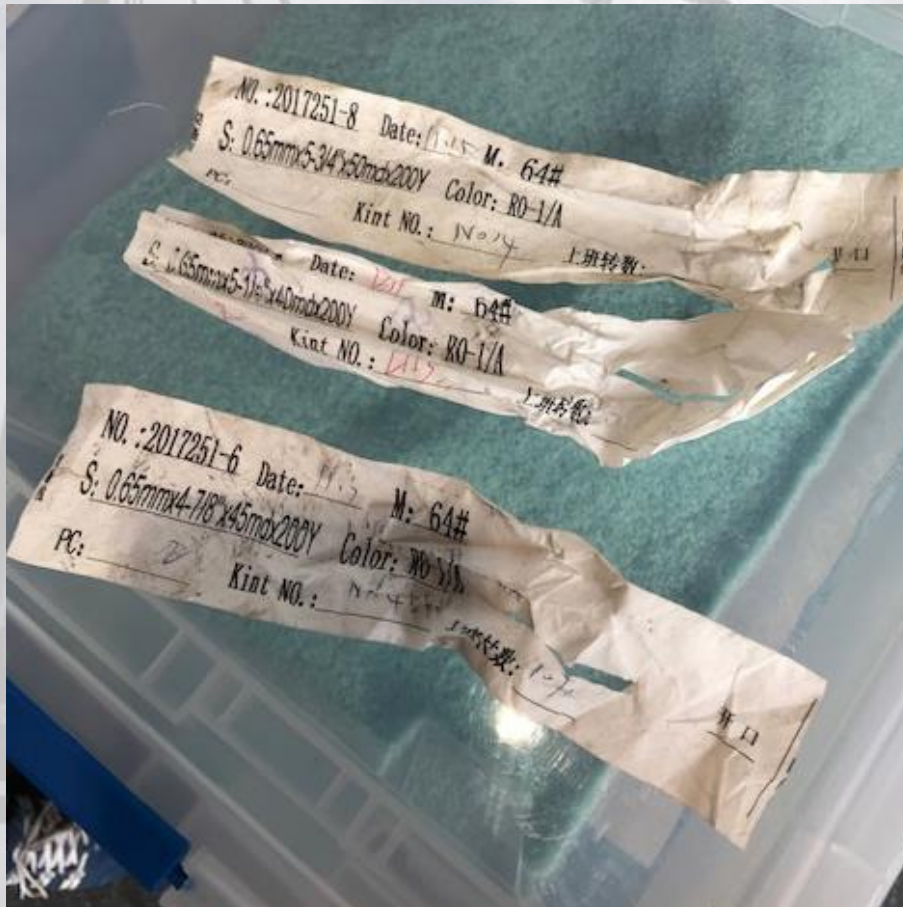
Marine Management Organisation





# Fishy Filaments

Recycling marine plastics into 3D printer filament.



## Fully traceable product



Supported by the European Fisheries Fund



Marine Management Organisation





Fishy  
Filaments

Recycling marine plastics into 3D printer filament.

Next steps...

Polypropylene  
&  
polyethylene  
nets



Supported by the European  
Fisheries Fund



Marine  
Management  
Organisation





Fishy  
Filaments

Recycling marine plastics into 3D printer filament.

## Scaling up ... Commercial & Community



Supported by the European  
Fisheries Fund



Marine  
Management  
Organisation



# FLAG support

Animation

Secure EMFF to accommodate  
Fishy Filaments & other marine businesses



Supported by the European  
Fisheries Fund



Marine  
Management  
Organisation



Supporting the maritime community



supporting cornish communities



# Support from the industry



“Fishy Filaments is a fantastic and innovative project. The Cornish Fish Producers Organisation represents over 160 fishing vessels in Cornwall including the Cornish Hake MSC accredited gill net fleet. We see Fishy Filaments as a great way of recycling the old netting brought in by our vessels and ensuring the recycled material is put to good use.”

**Paul Trebilcock**

CEO Cornish Fish Producers Organisation Ltd.



# Project contacts

Ian Falconer – Fishy Filaments

[www.fishyfilaments.com](http://www.fishyfilaments.com)

FLAG - [Chris.ranford@cornwallrcc.org.uk](mailto:Chris.ranford@cornwallrcc.org.uk)



Marine  
Management  
Organisation

