

# NURDLES: THE PROBLEM, SOLUTIONS AND HOW THE CONSTRUCTION INDUSTRY CAN PLAY A ROLE.

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@FidraTweets



# Overview

- Pre-production pellet (nurdle) pollution and Fidra's work
- Solutions and the responsibility of the plastic supply chain
- How the construction industry can play a role in preventing pellet loss





## Who are we?

Evidence based

Collaborative

Working towards positive, pragmatic solutions

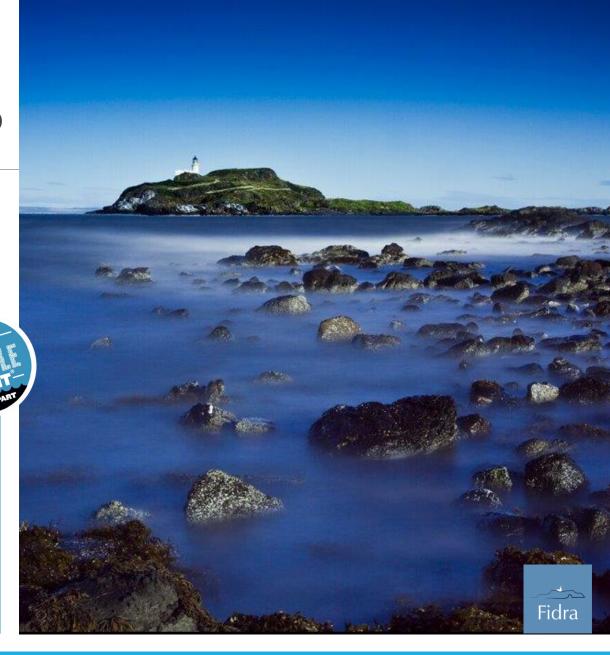
#### Our work on pellets

Since 2012

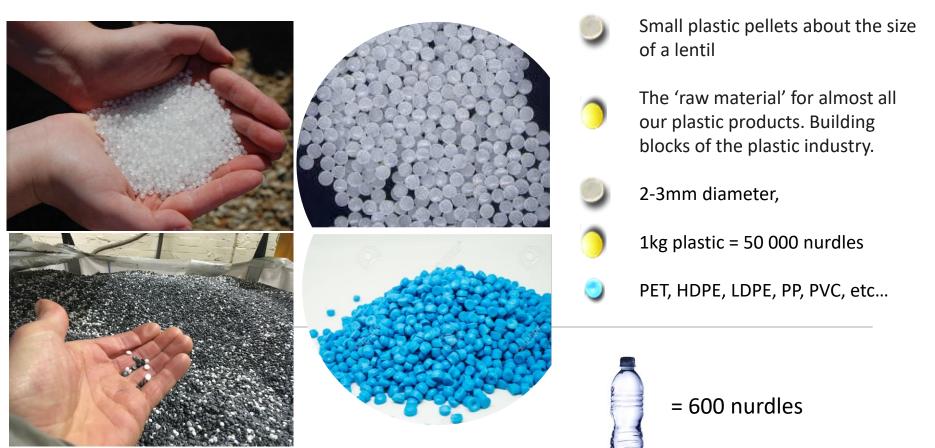
Citizen Science Project

Collaborative industry engagement

Working with NGO partners to stop pellet loss



#### What are nurdles?







How do pre-production plastics become marine litter?

#### Complex supply chain

Pellets might be handled on average 5 times each in their full lifecycle

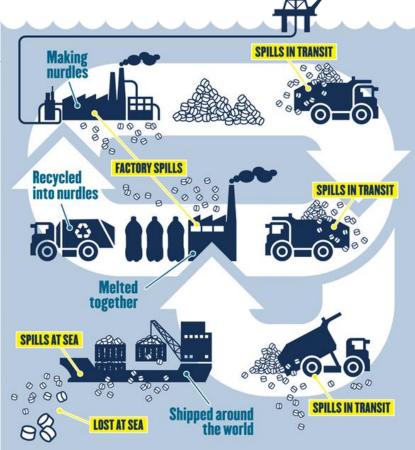
Lost at all stages of pellet handling

~300 million tonnes of plastic are produced globally

Set to double by 2030

1 tonne of plastic = 50million pellets





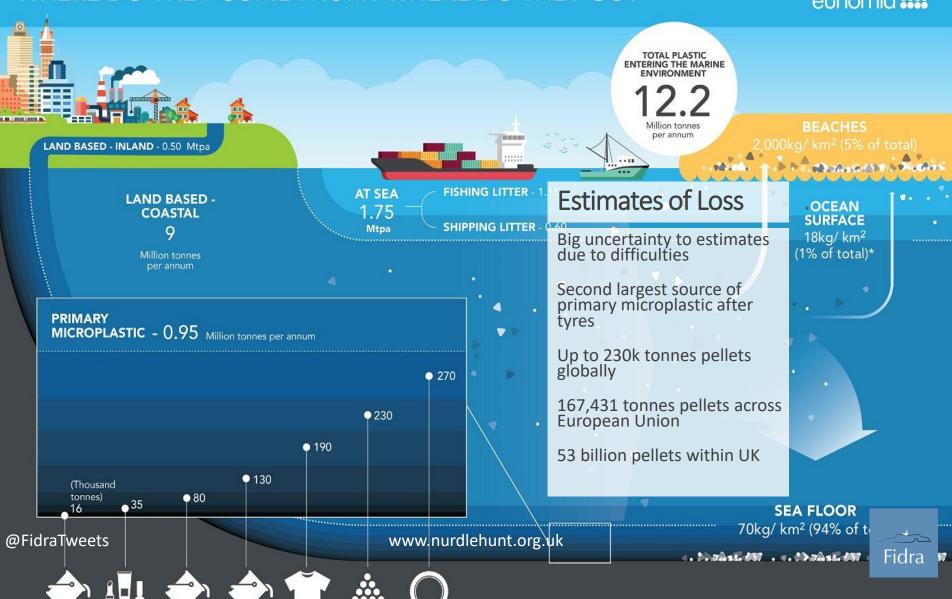


# PLASTICS IN THE MARINE ENVIRONMENT: WHERE DO THEY COME FROM? WHERE DO THEY GO?

**TEXTILES** 

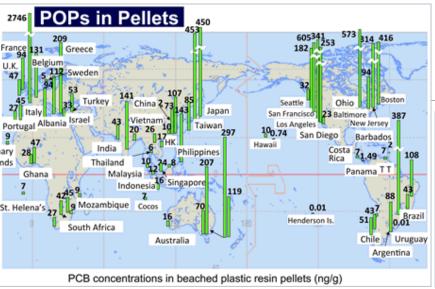
@PictraTweets





www.aurdlehunt.org.uk

### Why are they a problem?













Skua pellet

93% of fulmars autopsied contain plastic.



# Our Nurdle Map



- >1900 nurdle hunts reported to our map to date
- 84% report nurdles on beaches
- Found on the coastline of every European country monitored
- 31 of 34 countries monitored worldwide







This data is essential to show peopole care and there is an issue

Fidra

Our focus is on preventing loss at source



ANTARCTICA









October 2017

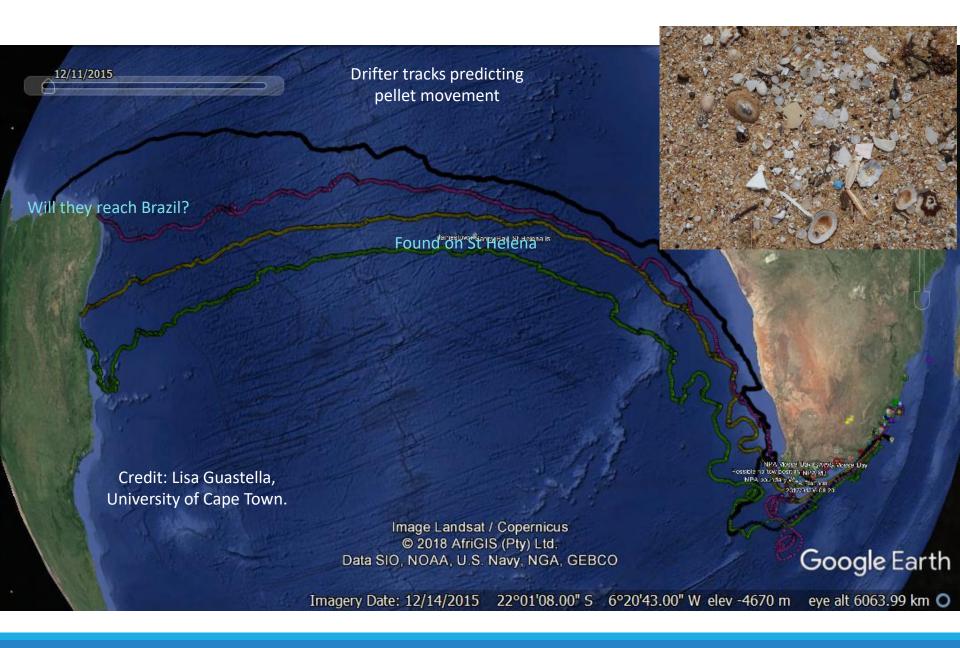
49 tonnes of nurdles

Localised spills, far reaching pollution









#### What's the solution?

- Best practice measures can prevent pellet loss
- Simple and low cost equipment
- Staff training and awareness raising
- Communicating with suppliers and customers



Filters in drains



Reducing risk of bags breaking



Dealing with spills outside

Image sources: Plastics Europe, Glendale Plastics



# Industry Action: Operation Clean Sweep



www.opcleansweep.eu

#### **Positives**

- Comprehensive toolkit
- Resources available
- Companies can show commitment
- Growing engagement from trade associations

#### Issues

- Voluntary
- No external checks to make sure it's effective
- Limited take-up



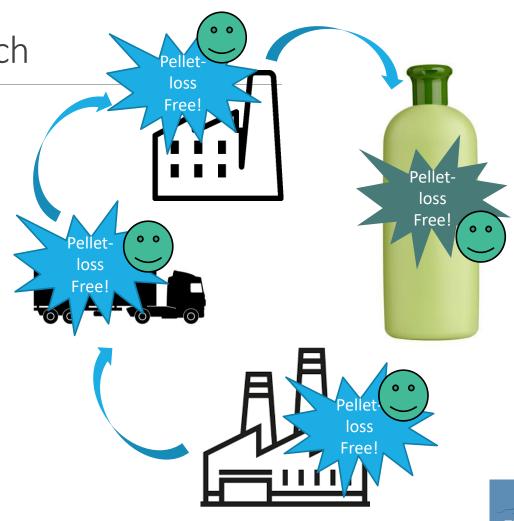
Our vision: A supply chain approach







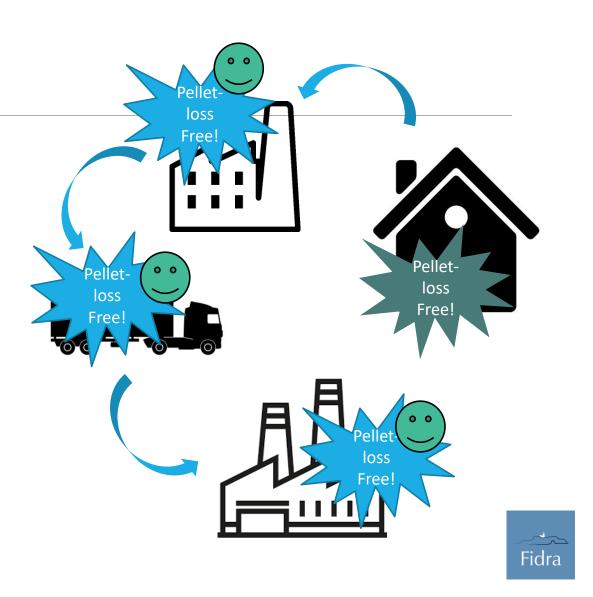
- Best Practice Measures
- Checked by External auditors
- Communicated throughout Supply Chain
- Brands putting products on the market can show their supply chain is pellet loss free





# What can the construction industry do?

- The Construction sector is the second highest user of plastics after packaging.(BPF,2019)
- Customers -> buying power
- Ask questions down the supply chain
- Are your plastic products made pellet loss free?



# We're looking for industry champions!

- Help us to understand the industry
- Ask questions down your supply chain
- Get involved with trials
- Come and chat to us









