#### Tackling Pellet Loss: Potential Measures

24th May 2022
Dr Chris Sherrington
Intervening as MedWaves external expert for WES project







Options for Reducing Emissions of Pre-production Plastic Pellets, Powders and Flakes

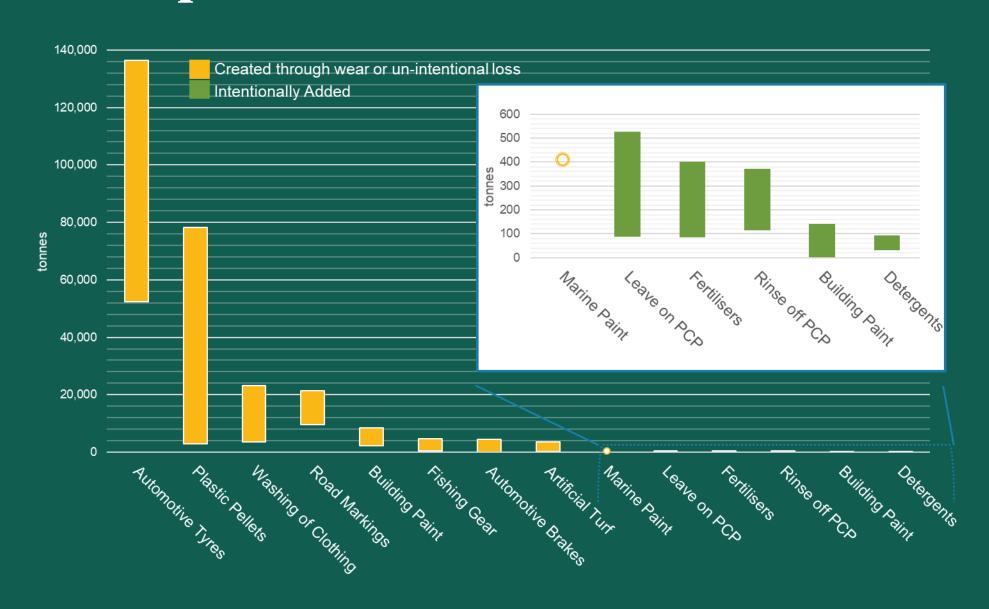
Report for Fidra

George Cole
Dr Chris Sherrington

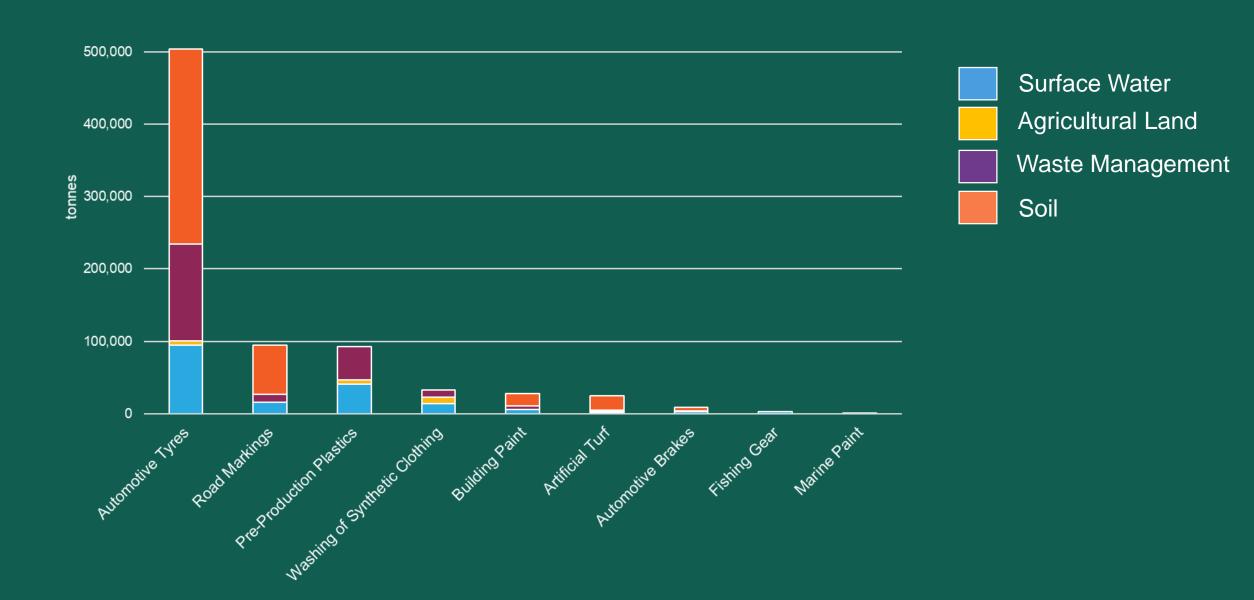
11th February 2016

George Cole Ayesha Bapasola Dr Chris Sherrington 1st February 2017 "Investigating options for reducing releases in the aquatic environment of microplastics emitted by (but not intentionally added in) products"

#### Microplastic Release to Surface Water



#### Microplastic Sinks ~ 0.8million tonnes per year



#### Option 1 – Horizontal Measures

Amending the Polymer Production BREF to include best practice pellet loss prevention measures as BAT, *plus* a Regulation on the Transport of Pellets, *plus* a Regulation on Plastic Converters

#### Option 2 – Regulation Requiring Supply Chain Accreditation

With a focus on supply chains, rather than on horizontal 'stages', this Option would reinforce vertical integration of best practices within the supply chain

- A regulatory measure
- Tackles all elements of the supply chain from end user to converter to producer
  - End users would be brands placing plastic on the market such as Danone, Coca Cola, BMW etc.
- Applied in a way familiar to business in the supply chain that already have to commit to certain standards for their customers
  - Product quality, safety standards etc.

- Regulation would require those placing plastics on the market (large businesses in the first instance) to ensure their entire supply chain demonstrates 'best practice measures'
- Best practice measures, building on OCS, to be determined by an expert group
  - (industry experts, Commission, NGOs)

- Brand owners demonstrate compliance through the use of:
  - one of a number of accredited, independent, privately operated standards organisations
  - with independent audit, repeated annually, ensuring continued compliance
- The Commission and National Regulators would have oversight of the standards organisations and the audits
  - Reviewing a sample
  - Regulators need not directly audit each facility and transport provider

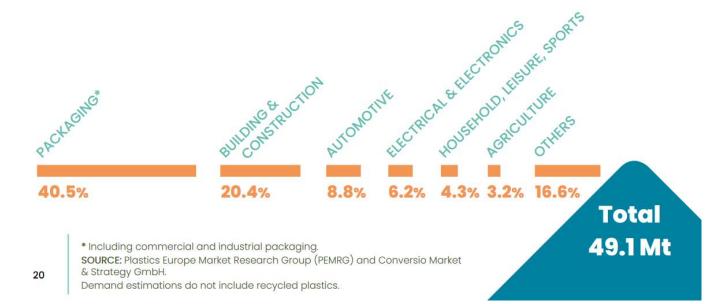
- Which end-users should be covered?
  - In principle anyone who places plastics on the EU market
  - However, sensible to start with large businesses to avoid burden on SMEs

BY SEGMENTS 2020

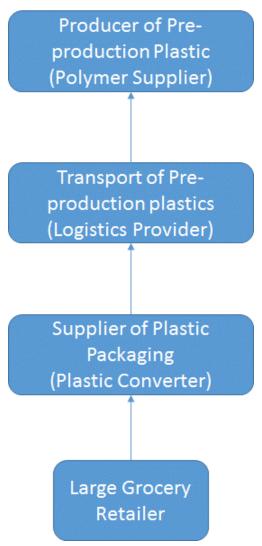


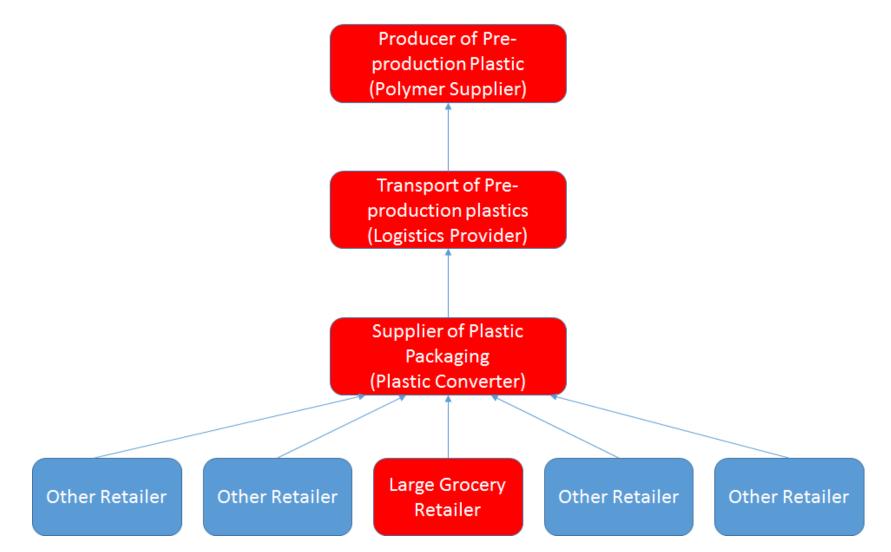
The third biggest end-use market is the Automotive Industry.

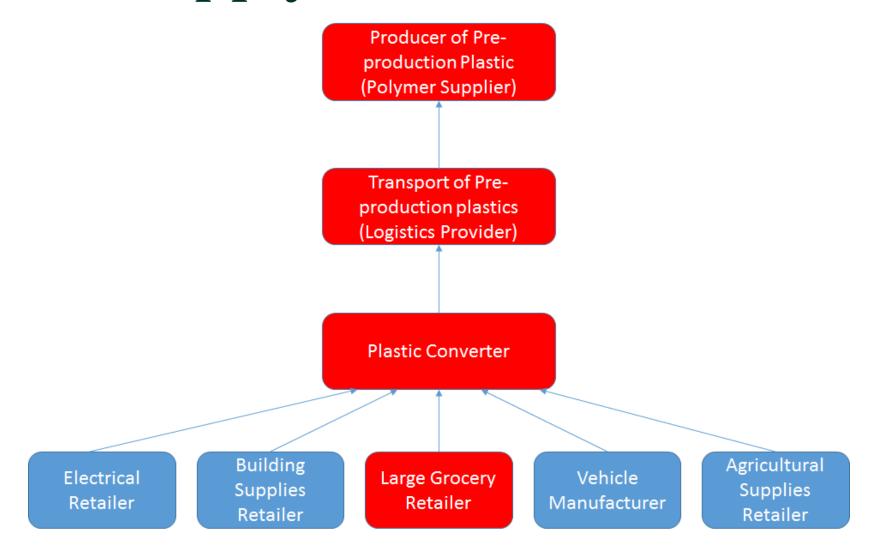
"Others" includes plastics for furniture, medical applications, machinery and mechanical engineering, technical parts etc.



Source: Plastics - the Facts 2021 https://plasticseurope.org/knowledge-hub/plastics-the-facts-2021







"This may well be the single most important book on Europe's influence to appear in a decade."

Foreign Affairs, Best Books of 2020

#### ANU BRADFORD

#### The Brussels Effect

HOW THE EUROPEAN UNION

