INCREACE System Map (Causual Loop Diagram)

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Sorter
Recycler
Compounder / Supplier
OEM part Manufacturer
Product Manufacturing
WEEE Supplier
Brand Owner
Collector
Retailers
Divestment
Use
Purchase

Sorting & Material Recycling

Design & Manufacturing

Metal scrap price
Recycling costs
Challenges in processing due to material inconsistency and heterogenity
Regulatory drivers due to env. burdens of plastic packaging
Recycled plastics from packaging
Building & Construction products put on market containing recycled plastics
Reinforcing Loop Fokus on plastic packaging recycling for building and constuction market does not incentivice recyclong of plastics from WEEE
Balancing Loop Higher volumes --> heterogenity --> higher recycling costs --> more export of waste
Dismantling, Sorting and Recycling of plastics in WEEE
amount and quality of recycled plastics from WEEE
Export, incineration or disposal of waste and EoL products
Volume of waste products available for recycling (stable feedstock)
perceived ease of using the collection channel (convenient, time efficient)
Transparency of quality data
Price of recycled plastic
Variances in colours/other properties
Willingness to pay for r-plastic
Price of virgin plastics
Strict quality requirements mainly based on performance
brand owners' demand for recycled materials
Availability of recycled plastics in constant volume and quality fit to specs
Risks (greenwashing, aesthetics, liability)
Costs of final product with recycled plastics
Perceived product quality and attractiveness by consumer
perceived Brand Image by consumers

INCREACE
PCR Plastic System Map

Consumers bring their end-of-use products to official collection channels
consumer **habit** to bring their WEEE to collection points
Trigger to act on the intention to bring items to a collection channel
Perceived risidual value of the EEE (i.e. sentimental, utilitarian, financial)
Perceived compensation/value when using the collection channel (financial, perceived value of the service)
Available **information about** the **WEEE collection** channels and their processes
Consumer **awareness of** and **trust** in collection channels
community (peer/family behaviour, trends and media) promotes recycled plastics
Response and Trust, Attitudes & preferences/ Perceived Value
OEM communication about recycled plastics
Consumer willingness to buy recycled plastic products

Consumer Divestment

Consumer Acceptance of recycled plastics