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Have you ever heard about « PRP »?







One tonne of recycled plastic vs One tonne of virgin plastic saves:



16TONNE OF CO2EMISSION

90 % ENERGY CONSUMPTION

ENVIRONMENTAL BENEFITS ARE OBVIOUS





In Europe, 29.1 MT of plastic waste are produced every year.

But 5 MT of recyclates only are produced, of which 4 MT serve to manufacture new products in Europe and 1 MT are exported.



Source: PlasticsEurope - 2018







High-Quality Circular Polymers

MAIN OBJECTIVES 3 MAIN OBJECTIVES FOR THE PRODUCTION

1. VIRGIN-LIKE QUALITY

2. TRACEABILITY

3. COMPETITIVE PRICES





Why are we so far from closing the circular plastic loop?



- 1. Innovation in brand-new technologies for sorting and recycling
- 2. Creation of a long-term & profitable downstream market
- 3. Access to plastic waste volume



Challenge #1 – Innovation & Technology Diversity of polymers is a huge challenge for sorting & recycling



- **Different colors** & types of resins
- Mixed plastics & multi-layer packaging
- New substances or additive chemical (ie. black carbon, silicon)
- Different quality requirements
 from downstream customers

Innovation shall continue and partnership with polymer industry is essential to continue to improve quality



Challenge #2 – Long-term & Profitable market Circular economy business model remains fragile

- Recyclates prices are dependant on the prices of the "oil-related" commodities they substitute
- Accessible markets for high-quality circular polymer
- Strong regulation & policy framework



A shock on demand would be welcome





Challenge #3 – Access to plastic waste volume Sorting is a prerequisite for efficient recycling



- Underestimated role of the citizens
- Door-to-door waste collection is very expensive
- Well-sorted plastic waste is an absolut prerequisite
- Take-back systems or deposit return scheme to be studied





Plastic recycling ecosystem

A large panel of stakeholders that needs to be progressively aligned

Upstream Stakeholders

Downstream Stakeholders







Solutions do exist: 6 ideas to be shared

- Ensuring better cooperation between plastic producers and recyclers to boost circular design
- Harmonizing ecolabels to make it easier to identify products containing recycled AND recyclable plastics
- Rise awareness & empower citizens

- Promoting the introduction of a minimum content for recycled plastic (by industry)
- Offering incentives to ease comparison with virgin materials (reduced VAT, variable eco-contribution)
- Green Public Procurement





Circular economy definetly needs collaboration.

Let's together bring & scale up new solutions!

@ suez

THANK YOU



