

Accelerating the Design of Recyclable Packaging

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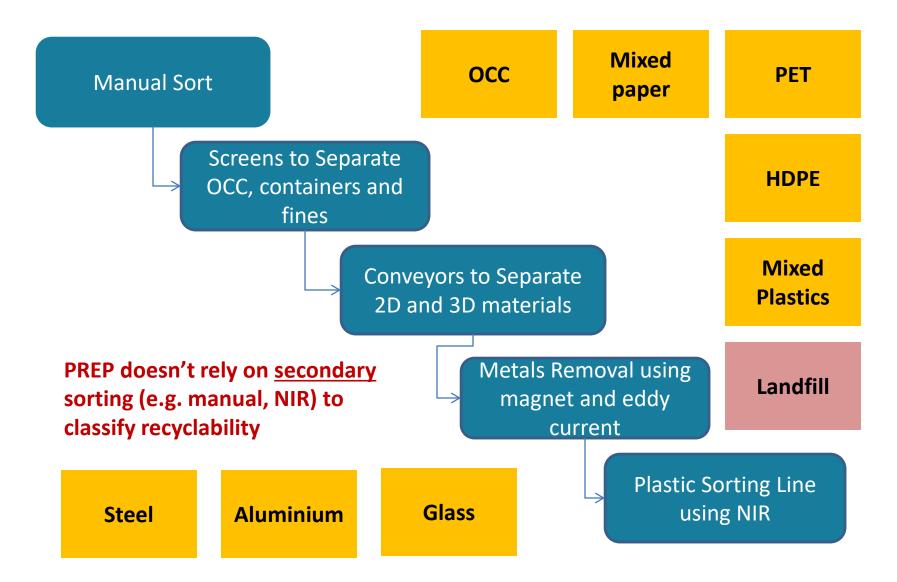
Other Drivers for Recyclable Design

- 1. Circular Plastics Alliance
- 2. EMF Plastics Pacts
- 3. New Plastics Economy Global Commitment
- 4. Reducing EPR liabilities
- 5. Being a circular economy leader

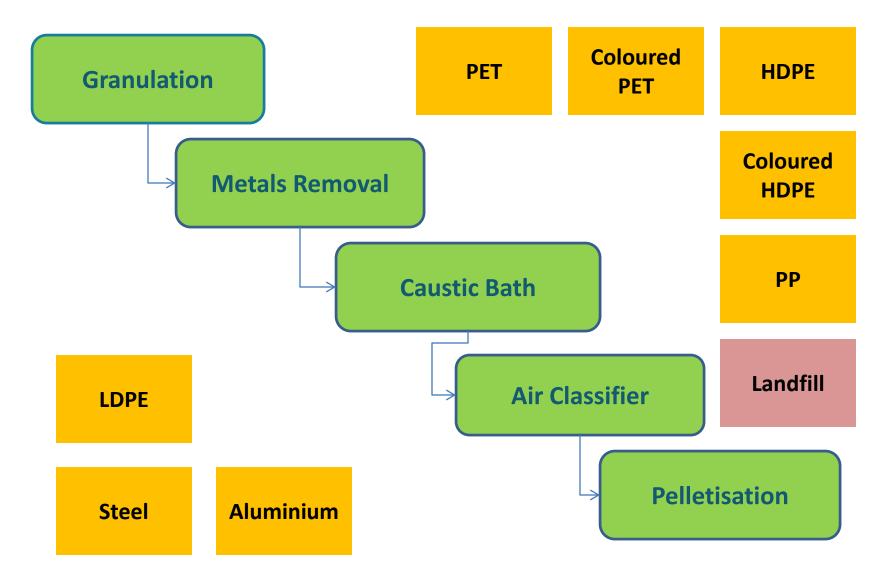
PREPSimulation of this....



Virtual MRF



Virtual PRF (Plastic Recycling Facility)



Market Coverage

PREP is tailored for each nation/region:

- 2014 Australia
- 2016 New Zealand
- 2018 United Kingdom
- 2019 Singapore (currently being setup)

Approach to PREP Classification

- 'Recyclable' as per ISO14021*:
 - 1. Collection access levels
 - 2. Sortation/Technical recyclability
 - 3. Available markets
- PREP algorithms refer to Parameters (P) and thresholds (T) set by each nation/region e.g.
 - **P** = How small is too small for a plastic item?
 - T = < 50mm in 3 dimensions

^{*} ISO14021, Environmental labels and declarations — Self-declared environmental claims (Type II environmental labelling)

Technical Recyclability

There are three potential PREP results for the technical recyclability of each component:

- 1. Technically Recyclable
- 2. Technically Recyclable with Lost Value
- 3. Not Technically recyclable
- 1. & 2. used to define Recyclability on-pack and structure allows EPR schemes to be more granular and use a standardised framework

Governance for Australia

- Technical Advisory Committee (TAC) includes brands, recyclers, Government. 3 subcommittees:
 - Plastics;
 - Paper; and
 - Metals and glass.
- TAC approves changes and data updates
- TAC responds to user appeals

Evidence for On-Pack Labels

Australasia + Singapore

Box



United Kingdom



Recycled



Locally



Not Yet Recycled

Non-English (Concept)





PREP Data Requirements

Туре	Examples	Source
Fixed	Specific gravity of PET Magnetic properties of steel	Physics
Semi-Fixed	Screen sizes at MRF Allowable limits on contaminants Proxy methods of assessment	MRFs Industry guides Laboratory checks
Variable	% of population covered by collections	Government data

Thank You

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