

# Designing for Circularity

Sustainability & The PET Bottle





### What is required to make recycling work?



## Amcor Rigid Packaging Believes in Responsible Packaging





- Promote brands
- **Protect** consumers & products
- Work with Recycling



Amcor follows APR Guidance for recycling

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### The APR Design Guide for PET







#### Malibu converts 750ml to be fully recyclable





- Opaque white PET non-recyclable due to color
- cPET shrink sleeve unlocked ability to give iconic white look, while maintaining recyclability
- Amcor created a method to anneal the PET, to withstand heat from shrink tunnel during label application

### Existing 50ml Liquor Bottles Non-Compatible with Current Sortation Equipment





- Hundreds of millions of 50ml PET bottles are produced every year that are deemed non-recyclable
- Bottles slip through broken glass screens at material recovery facilities making them unable to sort into PET stream
- Bottles need to be greater than 2", on 2 sides, to allow for proper sortation

## Amcor redesigning 50ml to fit existing sortation & maintain brand identities

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- Recycled materials are squeezed by truck during collection
- New concept designed to 'crush' to extend diameter greater than 2"
- Modeling used to analyze various designs to achieve preferred result
- Bottle testing has shown bottle moves from non-recyclable to recyclable but needs improvement



## Designing for Recycling is a must, but there's more to do

#### Consumer Education

PET is 100% Recyclable and can be made from 100% recycled content.

90% of the PET in the U.S. that goes into the recycling bin is recycled.

A PET package properly recycled can be back in a consumer's hand is just six weeks.

Well Designed EPR Legislation

Increase recovery, Reduce Cost, Incorporate cost of recycling into cost of the product, Improve design of the products

73% of US households have access to recycling

Access to Recycling

#### Strong environmental outcomes

- Efficient, cost-effective, transparent and accountable
- Shared financial responsibility
- Convenient for consumers
- Long-term financial sustainability

#### Indiana Access:

- 79% single family households
- 11% multi-family
- 45% Curbside; 34% Drop-off

Bottle Deposit System

- MIT study: Nationwide program could increase the recycling rate to 82%.
- Reduce roadside litter by as much as 64%.

Just 17% of recyclable content is collected in Indiana.

National Average: 21%