



Krysteline
Technologies

Who are Krysteline

UK based private company established for 16 years

Innovative thinkers in a traditional marketplace

Excellent track record of Research and Development

Global business exporting 95% of its production overseas

Principle offices in UK, Australia and Quebec

The main numbers – USA

**12 million tonnes of glass
containers produced annually**

**46 plants using 3.9m tonnes of
cullet**

**8 million tonnes of cullet not
being utilised**



Feeding the remelt industry

High quality colour sorted cullet

Extends furnace life

Reduces carbon consumption

Decreases operational cost



Perception

100% of all glass can be used to make new glass

Reality

8 million tonnes is not converted in remelt

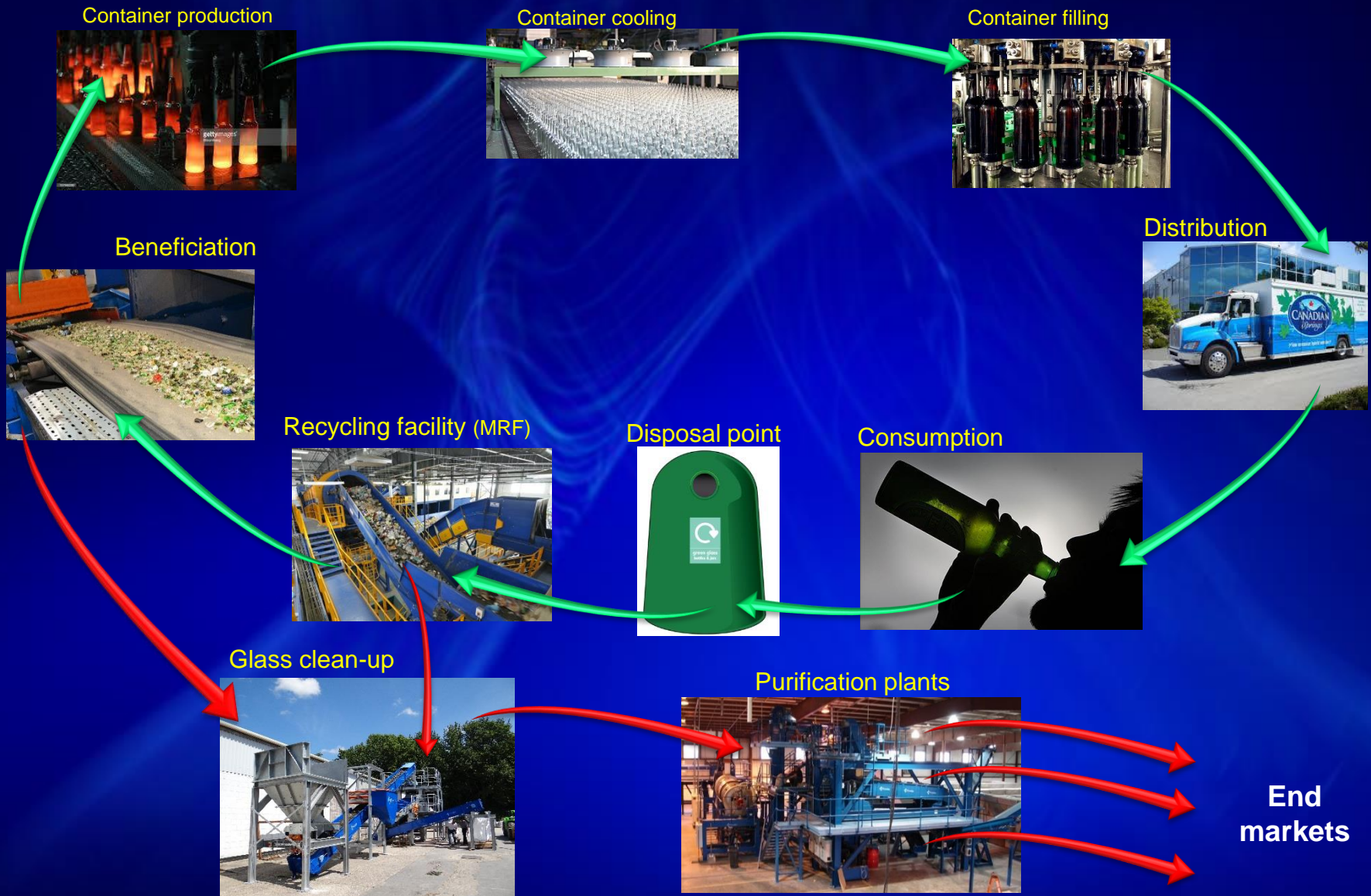
Misunderstood message restricts investment

Location of cullet is often far from remelt plants

The price remelt pay is determined by raw material cost

We have to work hard to rationalise this perception

Alternative glass recycling system



Understanding the situation

Equipment cost and relatively low market prices deter investment

Recyclers have high collection and processing costs

Cullet more economic to collect commingled

Commingling glass decreases quality

Landfill is relatively cheap

Confidence is low

More investment required for infrastructure

Joined up thinking

The UK adopted the Packaging Recovery Note (PRN) system

Designed to stimulate an inclusive recycling system

Brand owners have to purchase PRNs from the recycler

Producers are responsible for their own waste through its life cycle

A few cents increase on all containers covers the cost.

PRNs are traded on the open market for transparency

How the PRN stimulates recycling

PRN value is determined by quality of recycled product

Examples – Aggregate \$15pt, Remelt and purified \$50pt

Recycler is accredited and generates his PRNs

PRN value only redeemable against capital equipment and R&D

Higher quality equipment processes higher quality glass

Technological adaptability

Recyclers have to be flexible and adaptable as the market evolves

Technology must support multiple markets

“You find the market and I'll buy your plant”

Krysteline is committed to this marketplace

**“If technology is our future, then
we will be well served by those
who are leading the way”**



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