



CLOSE THE GLASS LOOP.





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Company Profile

Industry Challenge

There is over 270,000 tons of glass waste produced annually in Kenya with less than 30% being recovered and recycled.

Value Proposition

We adopt a lean model to efficiently recover glass waste and process it into quality recyclable and reusable glass products for the glass manufacturing and food and beverage companies.

Delivery pillars

1

Efficient recovery of glass waste through strong collaborations across the value chain

2

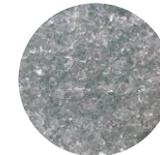
Building strong returnable systems for reusable bottles for respective brand owners

3

Finding innovative solutions to glass recycling

Products

- Glass cullet
- Reusables glass bottles



Clear cullet

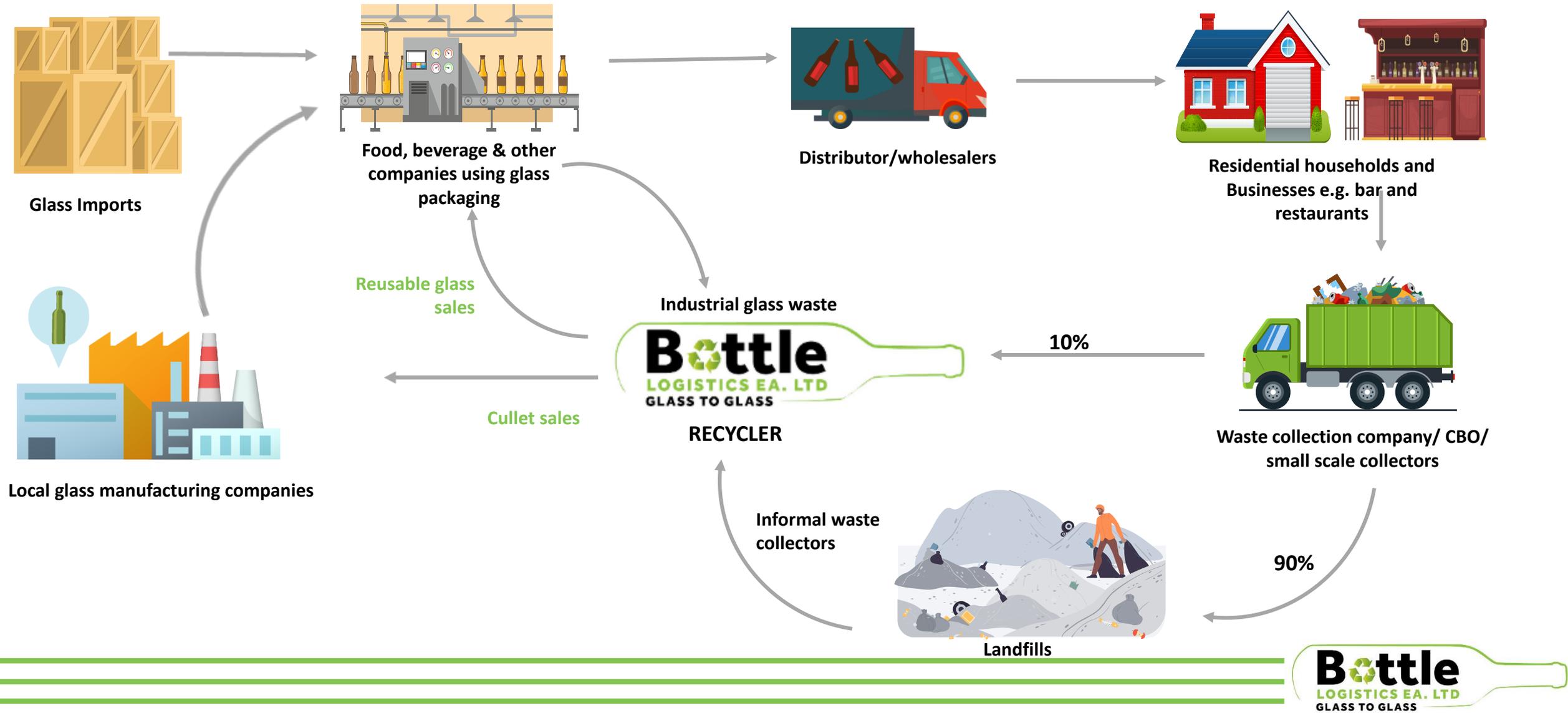


Amber cullet



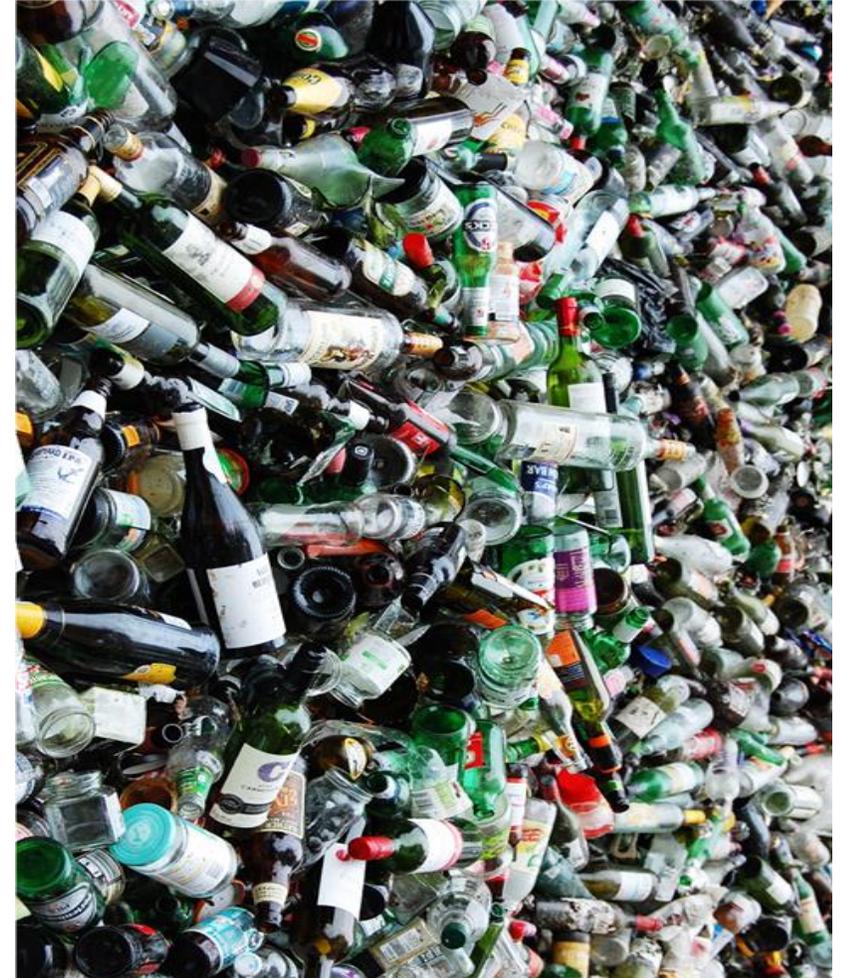
Green cullet

Inefficient glass value chain.



Growing post-consumer glass waste poses an increased environmental risk.

- ❑ **Growing glass waste challenge that will continue to follow growth**
 - 270,000 tons of glass waste produced annually with <30% being recovered and recycled
 - Little to no segregation of waste at household level leading to contamination of glass waste.
 - Glass is non-biodegradable and stays in the landfills for up to 1m years
- ❑ **Consumers have no option of where to responsibly dispose off their glass for recycling**
 - No glass bin/drop off/recycling station in Kenya.
 - Available recycling stations have no glass compartment.
- ❑ **Low value of recycled glass reduces glass recovery and recycling initiatives**
 - Glass cullet fetches the lowest value compared to other recyclables such as metals, plastics and paper.
 - Collectors and recyclers put more focus on other recyclables.
- ❑ **Low demand of colored glass**
 - Low demand of green/amber glass, that ends up in the dumpsites.
 - Flint is the most sought after recycled glass



Solution lies in a lean collection model.

The future collection model will pave way for collection of glass waste closer to the point of consumption by introducing glass bins, collection centers and direct collection from commercial enterprises, increasing glass recovery rate and quality of recyclable and reusable glass.

Household/ residential
glass waste



Drop off bins.



Residential drives e.g. kilicycle



Commercial
enterprises e.g
bars, restaurants



Direct bar collection (ABAK)



Glass collection centers



Future trends of Glass recycling industry.

Trends

Establish producer responsibility organization.

Overview

- Advanced countries have industry bodies governing glass recycling.
- No industry body governing glass recycling in Kenya.
- The proposed 'extended producer responsibility bill' will pave way for creation of Producer responsibility organization.
- KEPRO To take over governing of glass recycling, alongside other packaging materials when bill is passed.
- Manufacturers/ importers to be held responsible for their post consumer glass waste

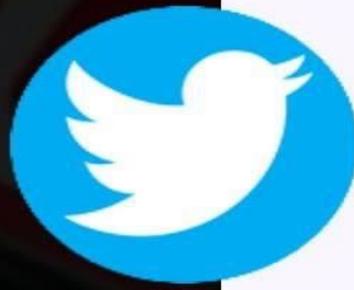
Reusable glass bottles

- Shift from one way bottles to returnable glass bottles for reuse.
- Reduces glass waste ensuring sustainability.
- Cost savings on the company.

Glass aggregate

- More research being conducted into glass aggregate used in concrete for construction industry.
- Uses different types of glass from window glass to glass bottles.
- Currently in partnership with 14 trees, a subsidiary of lafarge.

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