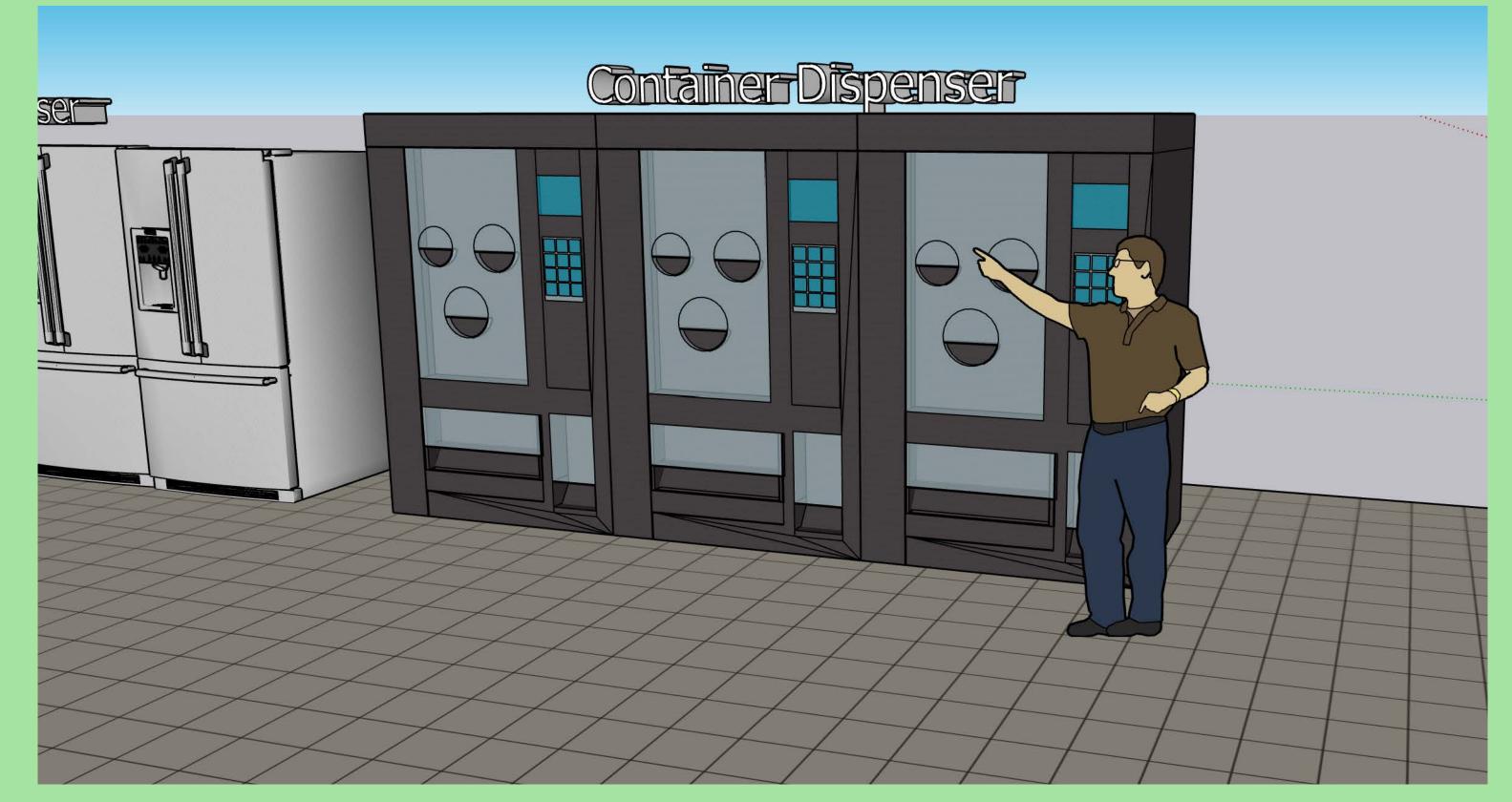


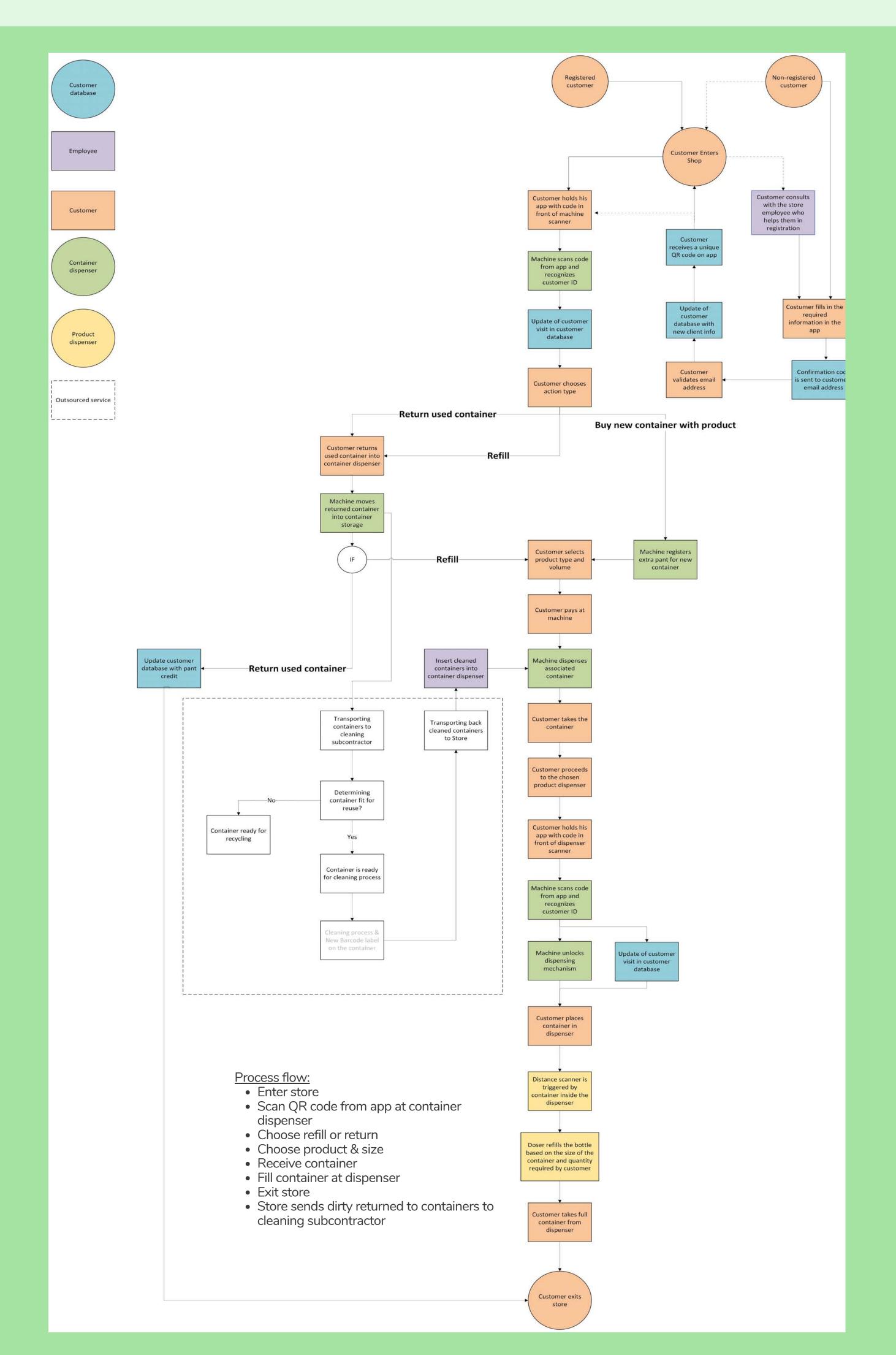
GROUP #03

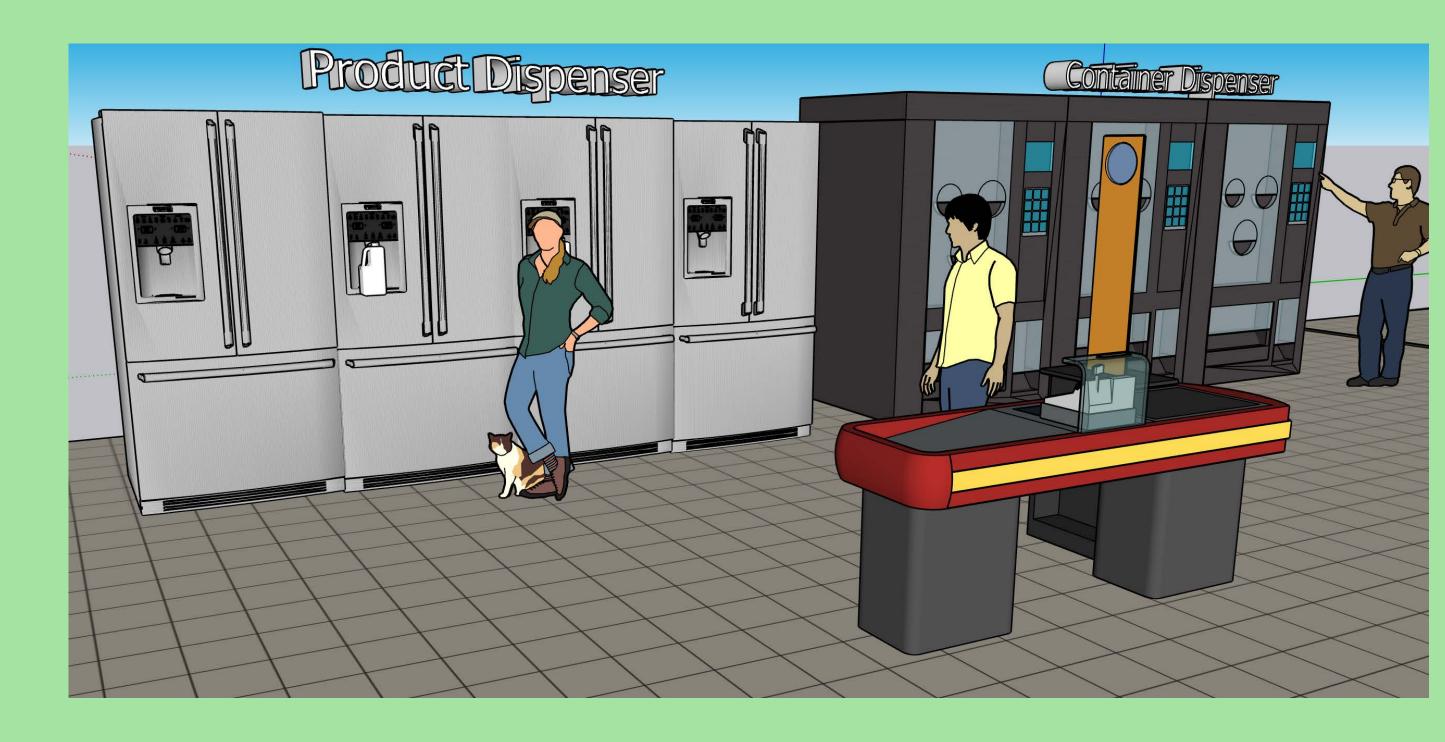
Concept proposal for battling ocean plastic by reducing single-use plastics. Specifically through the extension of the bulk refill store concept by offering refillable containers of liquids in addition to bulk products



CONTAINER DISPENSER

- Touchpad for interaction
- Cash card hole for payment
- QR scanner for customer recognition
- 3 holes for with autmoated flaps for container return
- Large square hole with flap for container dispensing





PRODUCT DISPENSER

EMPLOYEE AT HELP DESK

- Hole for container placement
- Distance sensor for container recognition and product dispensing trigger
- Dispensing nozzle
- Support client during registration
- Intervene in case of system errors
- Refill machines
- Maintain machines

MATERIAL SELECTION & CONTAINER TYPE

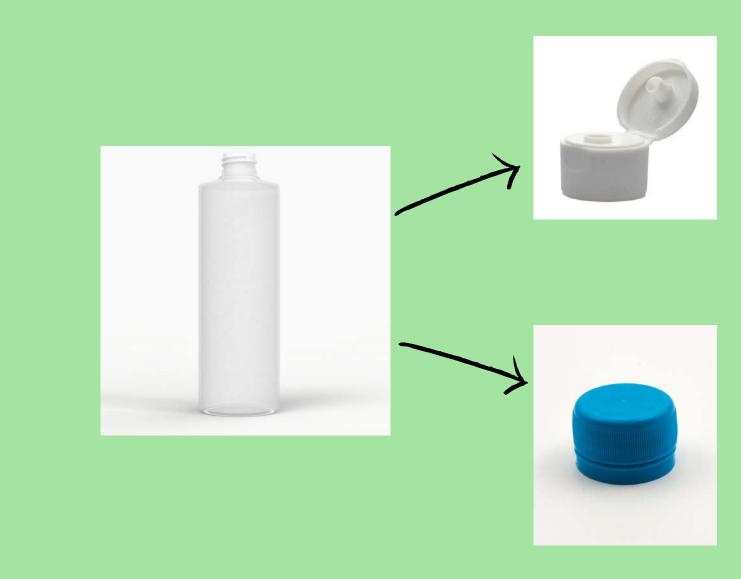
HDPE (High Density Polyethylene containers):

Material chosen amongst 8 plastic types due to its properties such as:

low leaching high re-usability low price

high recyclability medium regidity

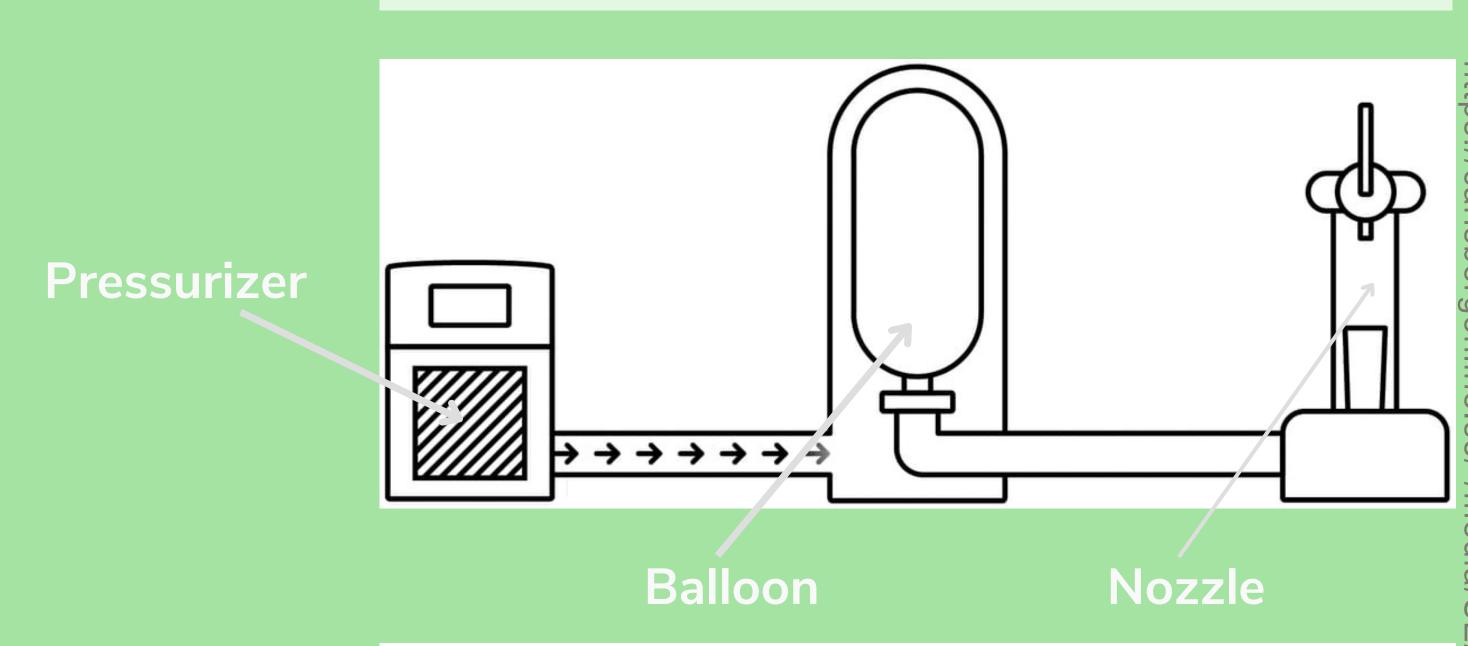




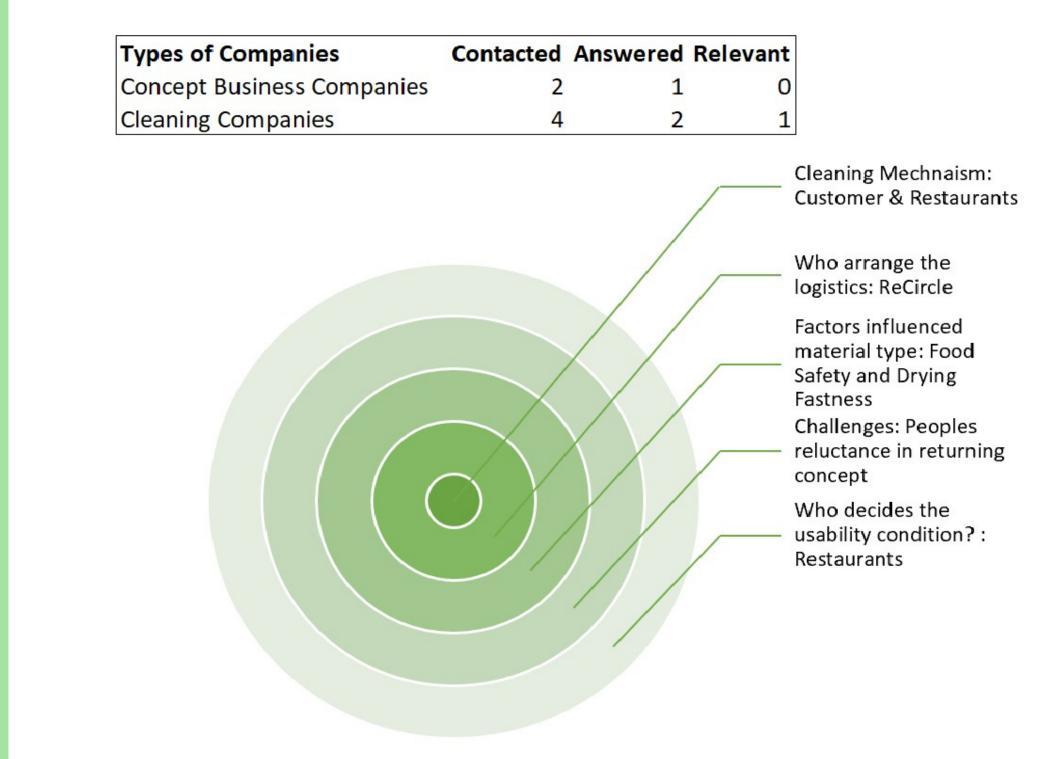
Container type	Container lid	Product
500 ml cylindrical box	twist top lid	Yoghurt
500 ml bottle	twist top cap	Milk, Cream, Juice, Oil
500 ml squeezable	flip top cap	Shampoo, Shower gel,
bottle		Soap, Mayonnaise, Ketchup

DISPENSING MECHANISM

- Mechanism provided by "Draughtmaster"
- Detachable nozzle dispenser for easy refill (with 20L capacity)
- Built-in cleaning procedure
- Adaptable pressure and pipe diameter depending on product viscosity



SURVEY



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