

GROUP 4, SIGNE OG STINA



Mangroves moves
Cut plastic - not mangroves

The team



Signe Buhl

BSc Mechanical Engineering

3D-print and prototyping

Volunteering: Uganda

Business developers
Sustainable business models
and value creation

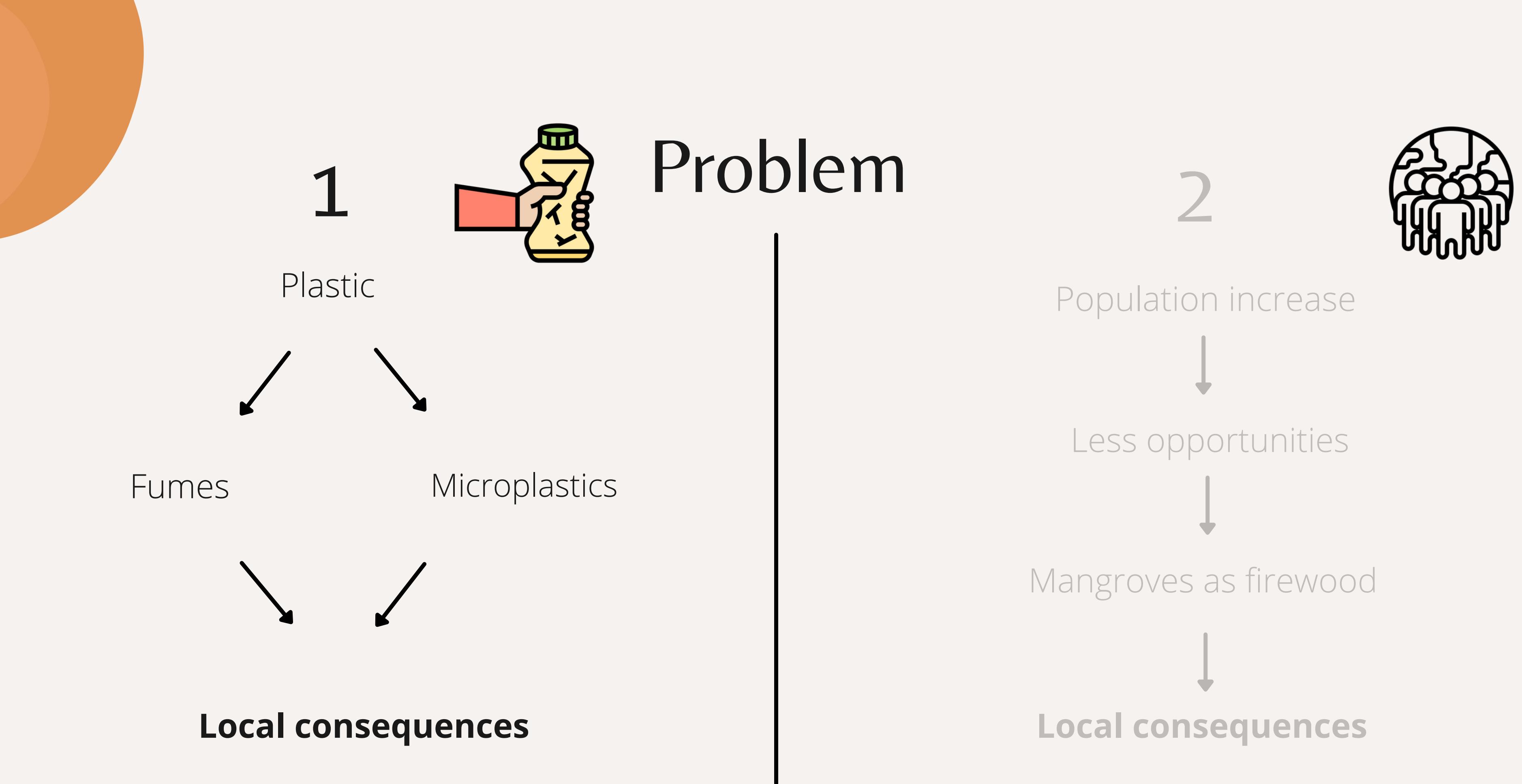


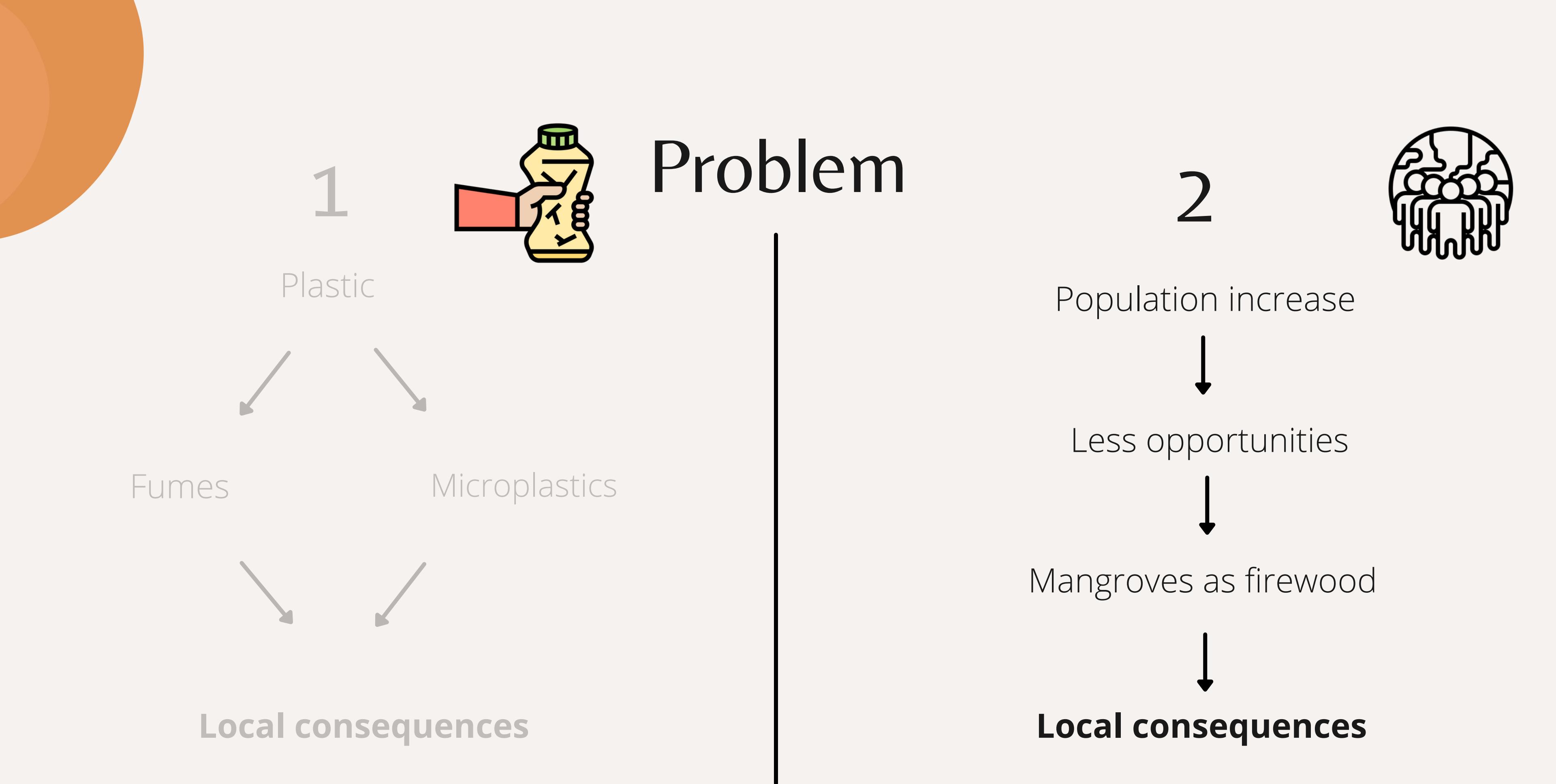
Stina Valheim

BSc Shipping Management

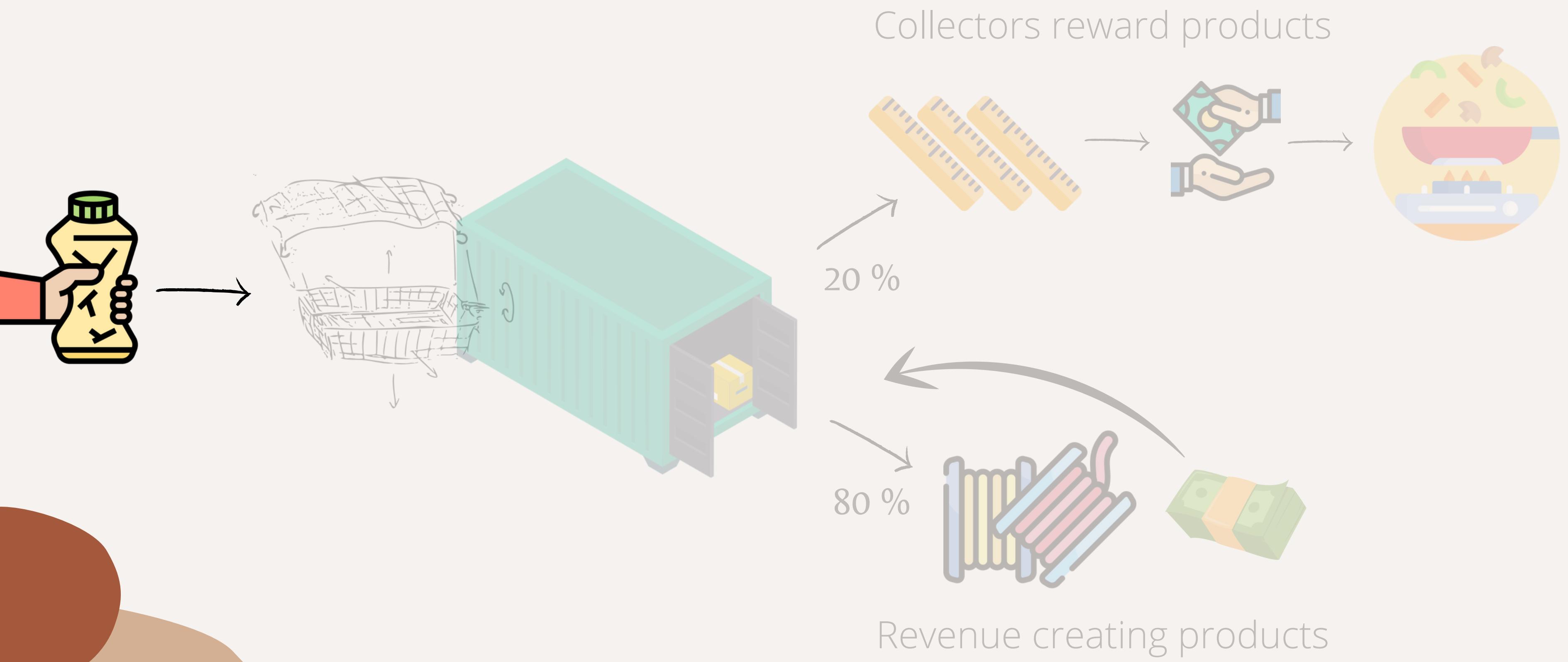
Logistics and economy

Volunteering: Kenya

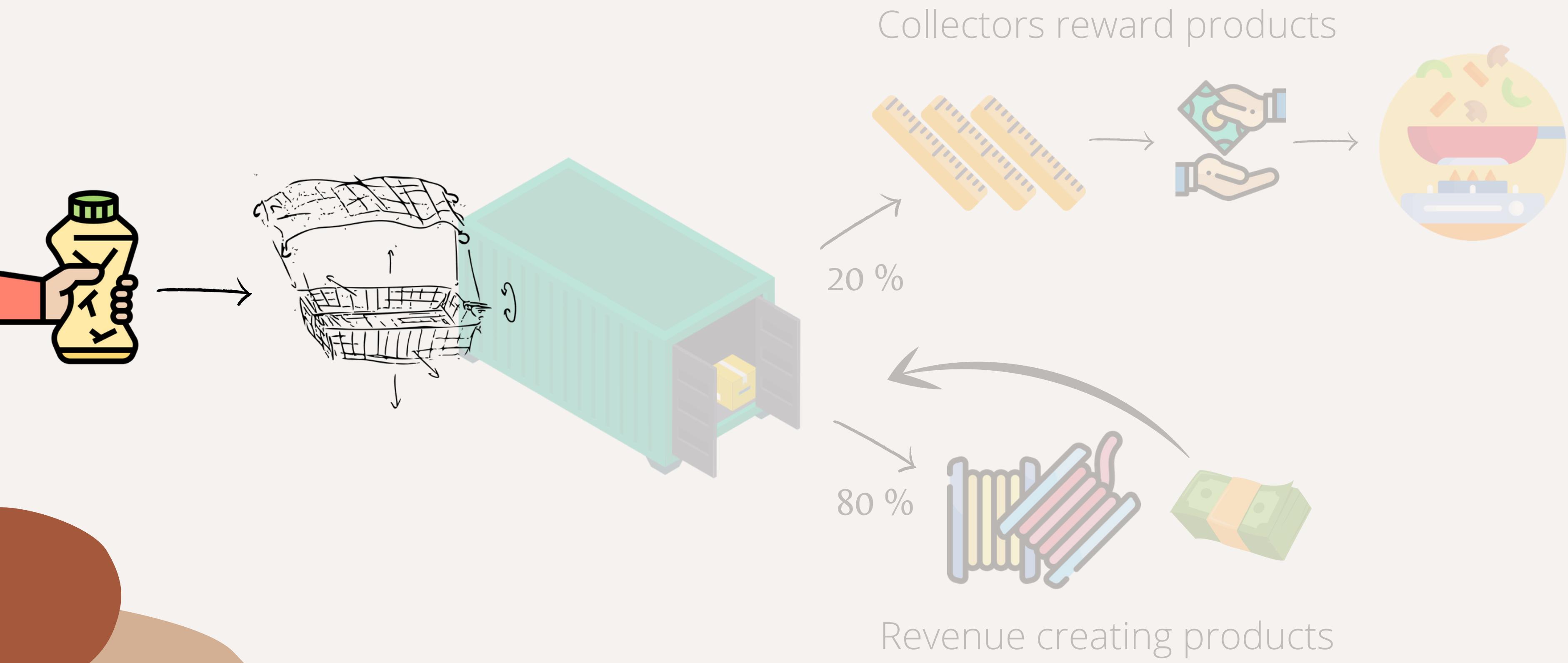




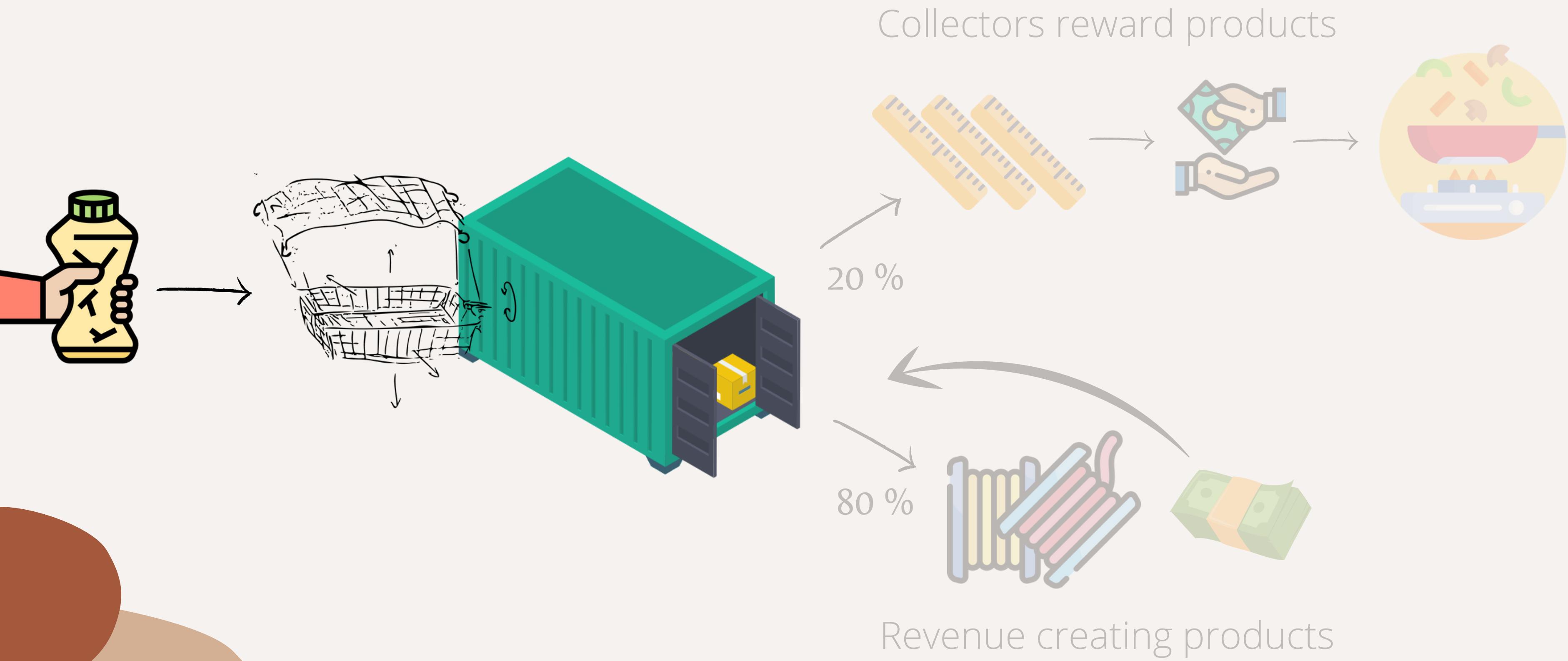
Solution Value chain



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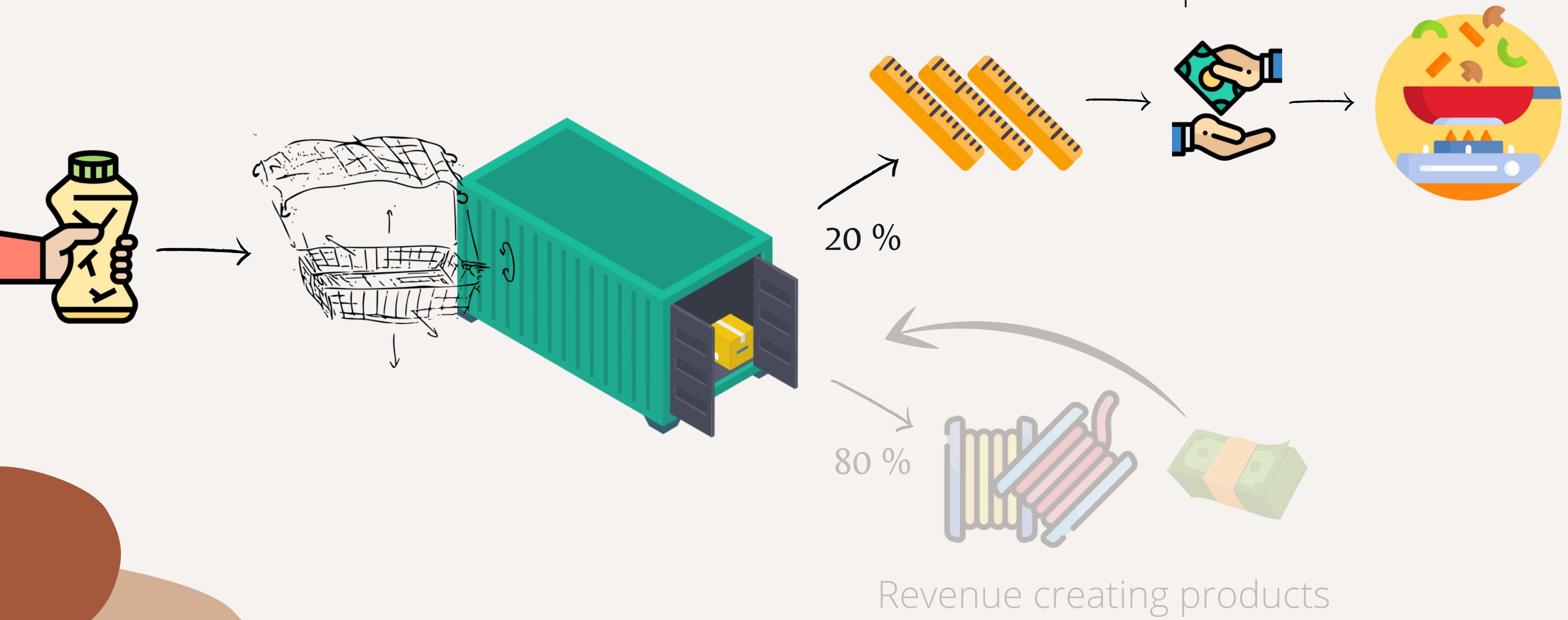


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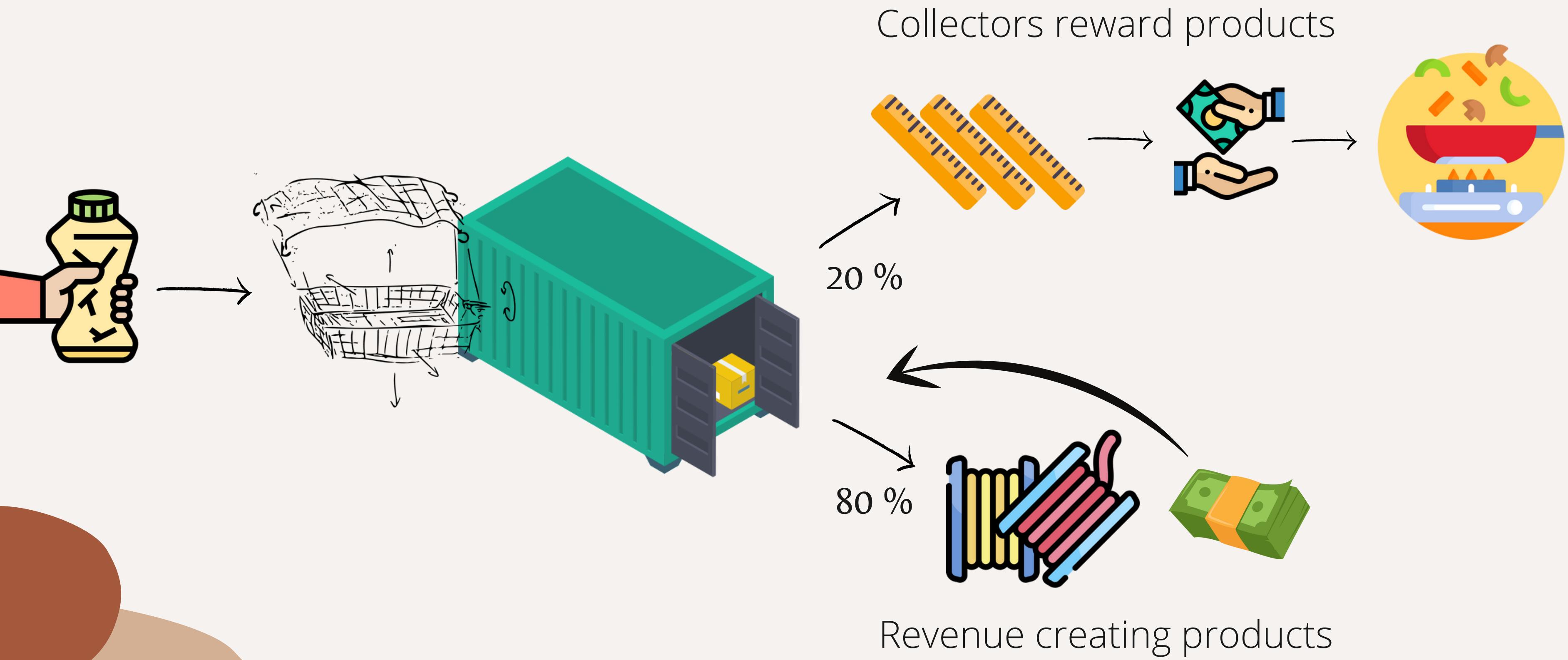


Solution Value chain

Collectors reward products

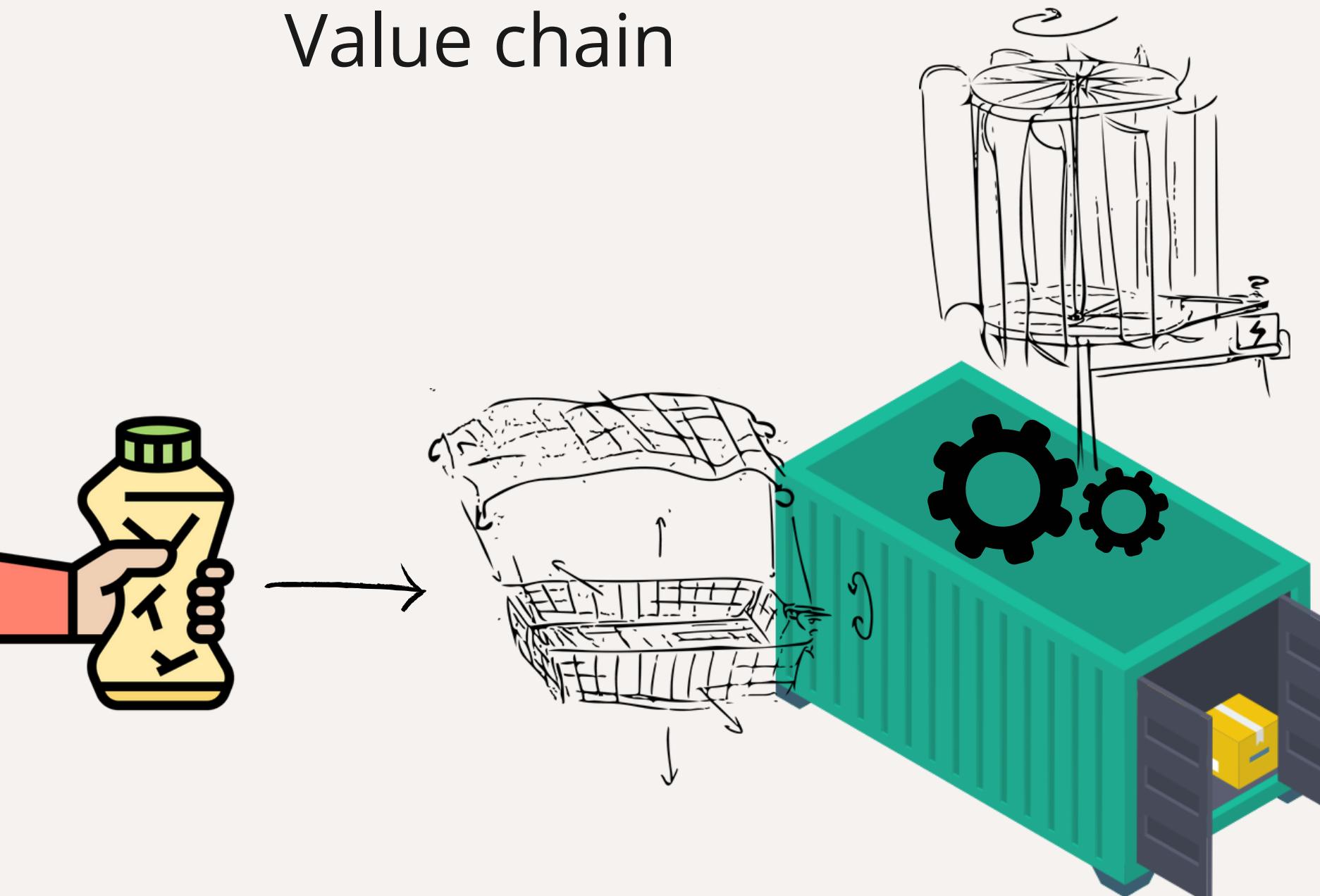


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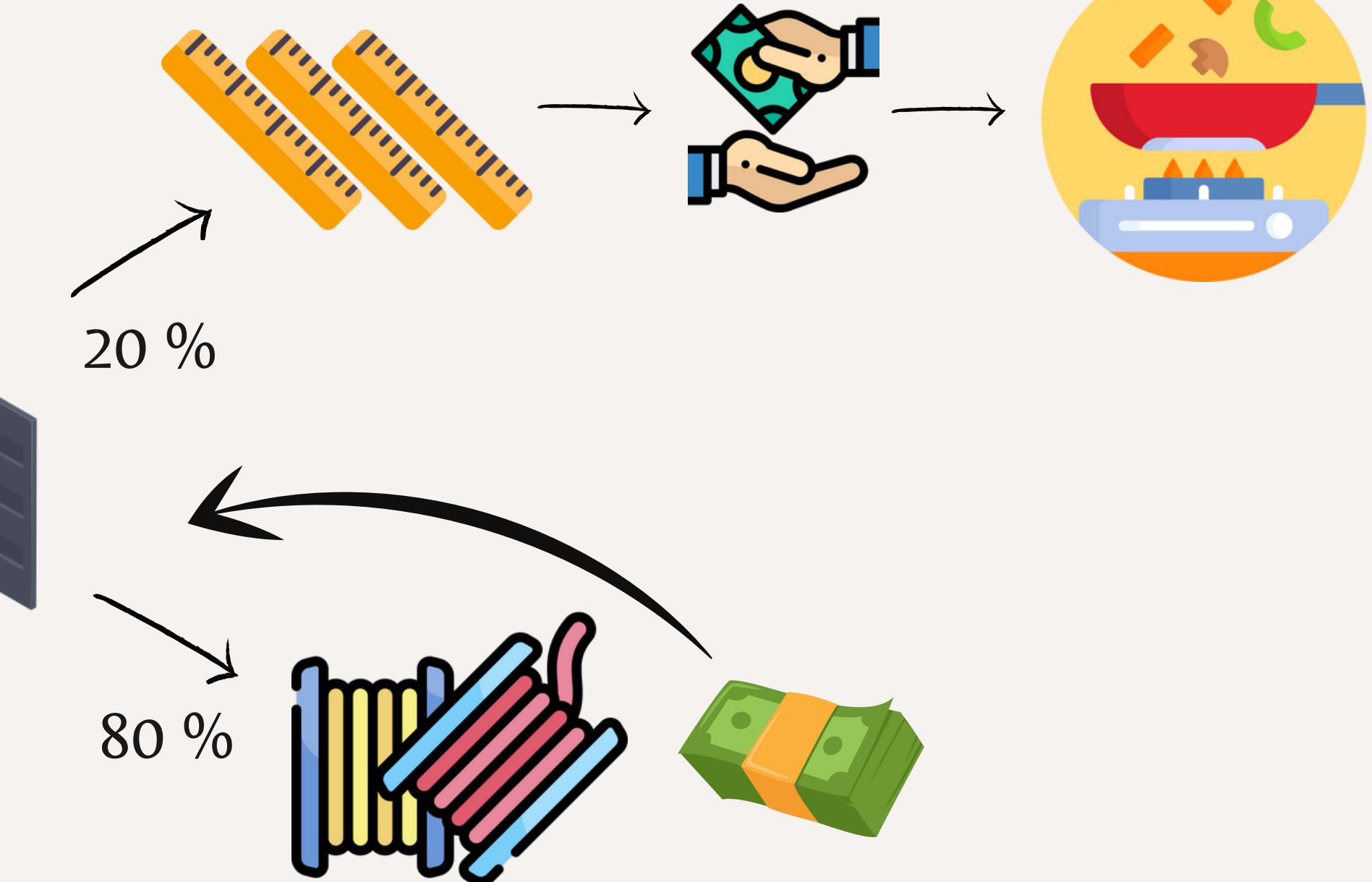


Solution

Value chain



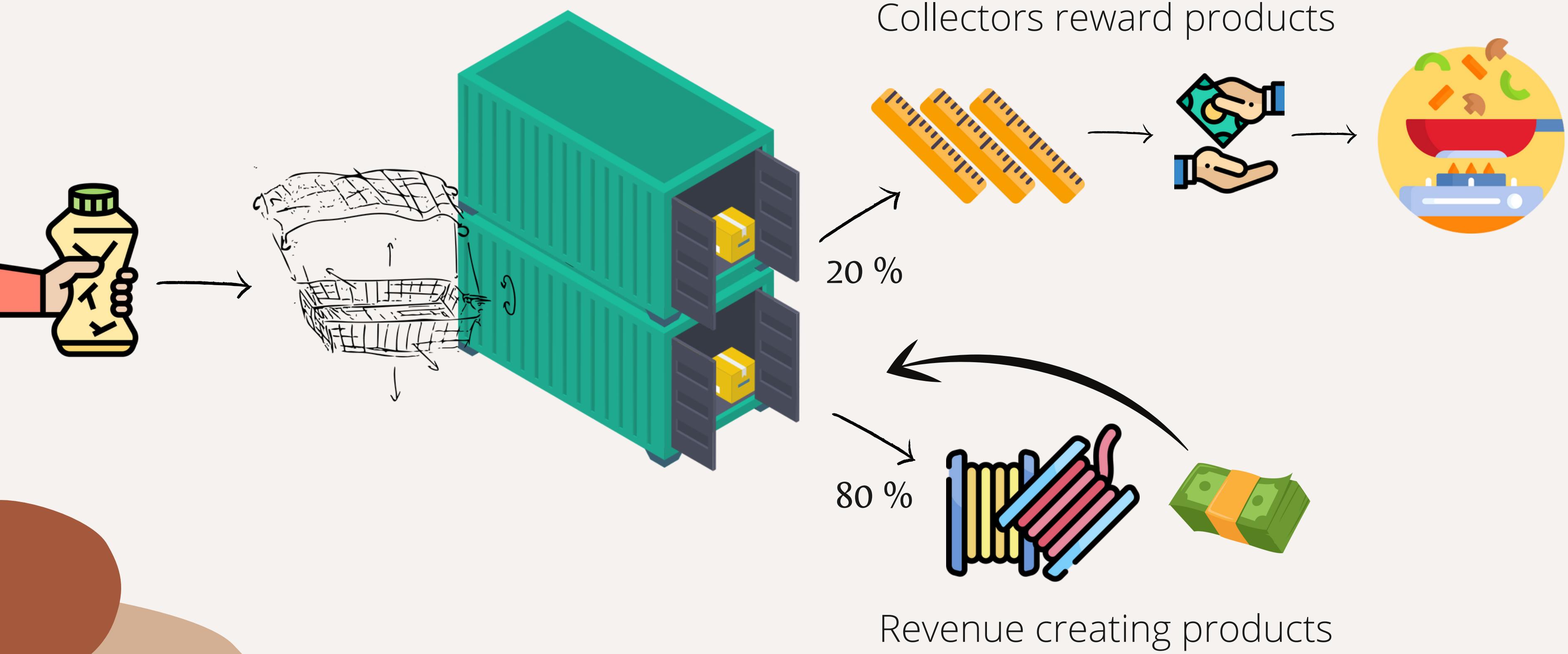
Collectors reward products



Revenue creating products

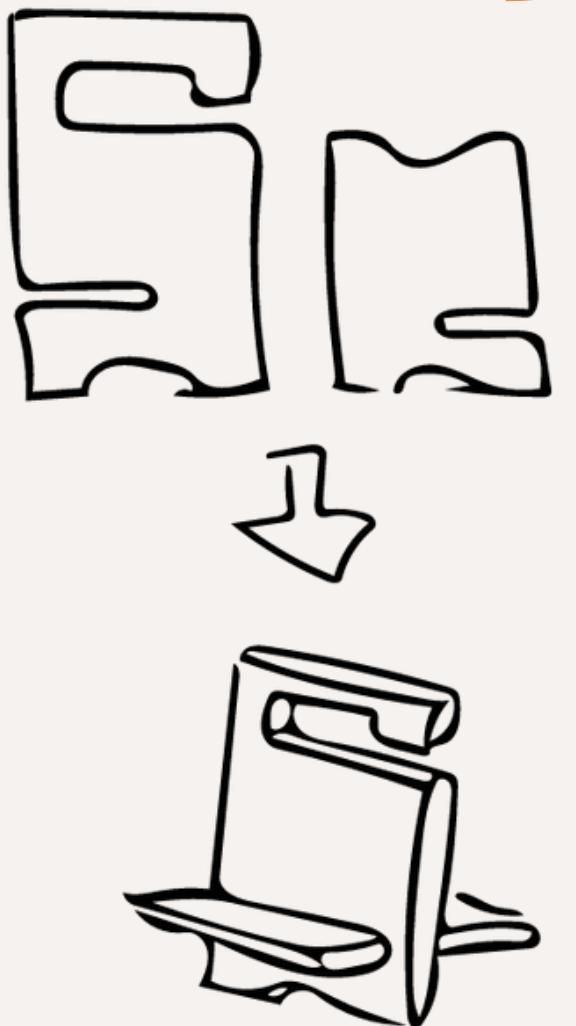
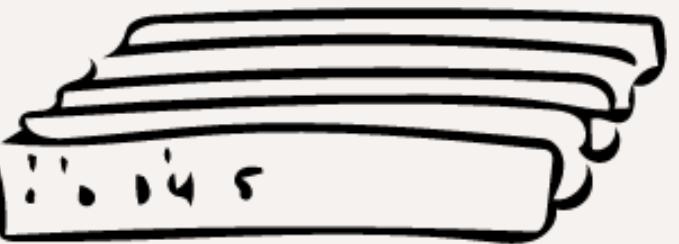
Solution

Value chain



Collectors reward products

-  Big customer group
-  Easy to produce
-  Immediate value
-  Additional selling value
-  Return and get a new for free



Collectors reward products



Big customer group



Easy to produce



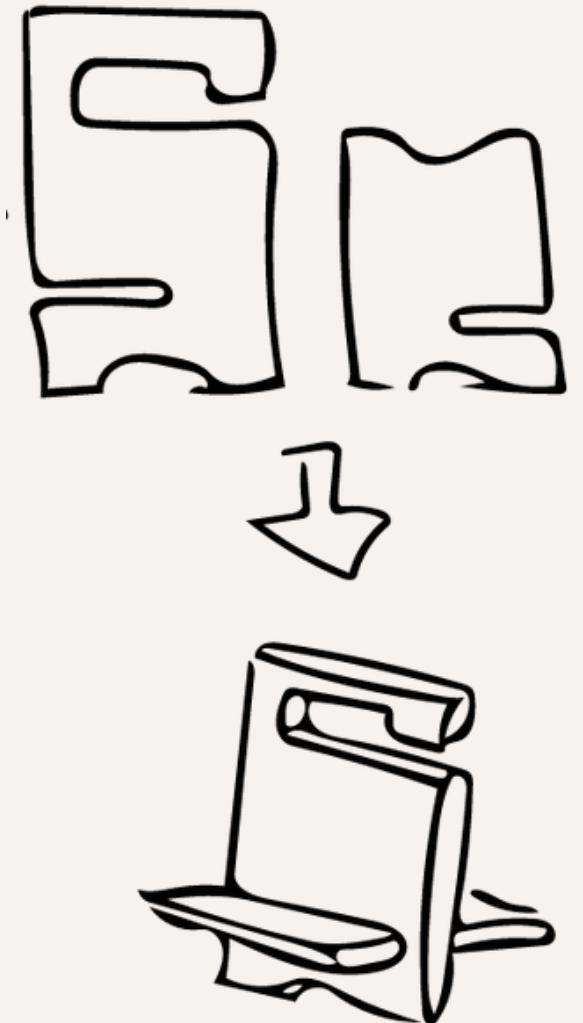
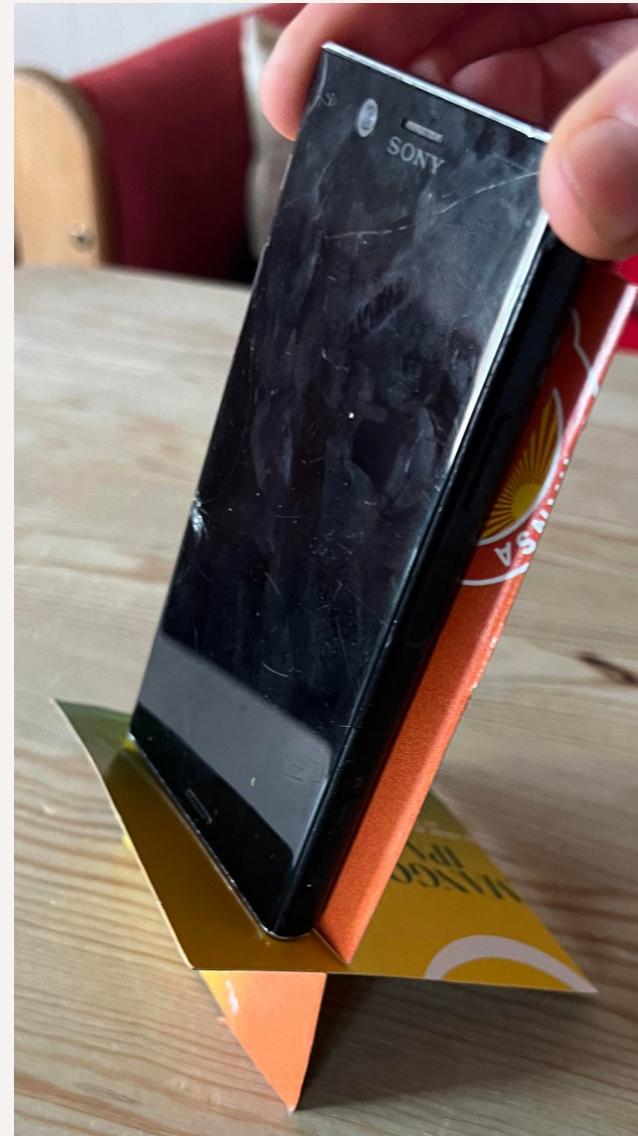
Immediate value



Additional selling value

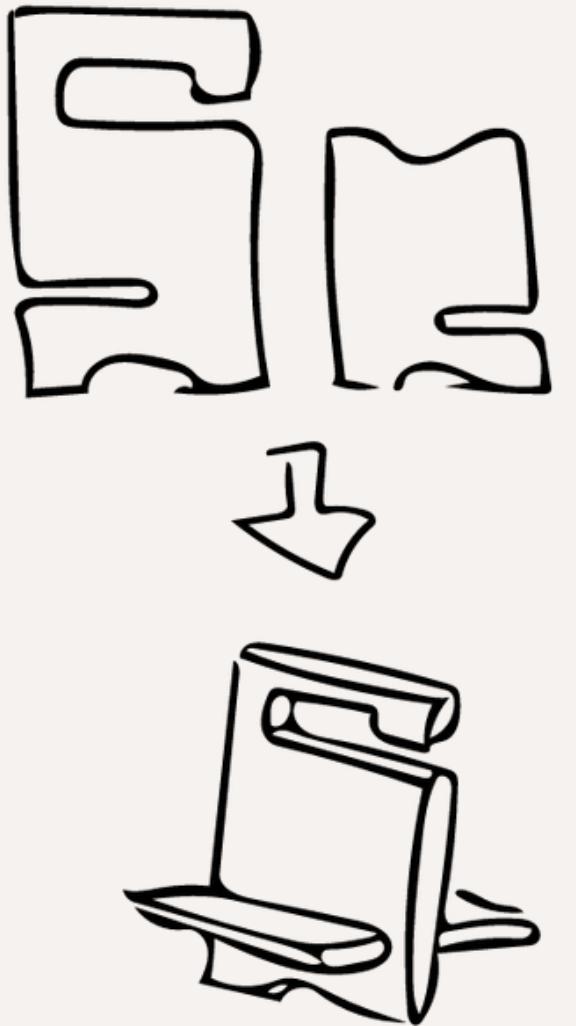
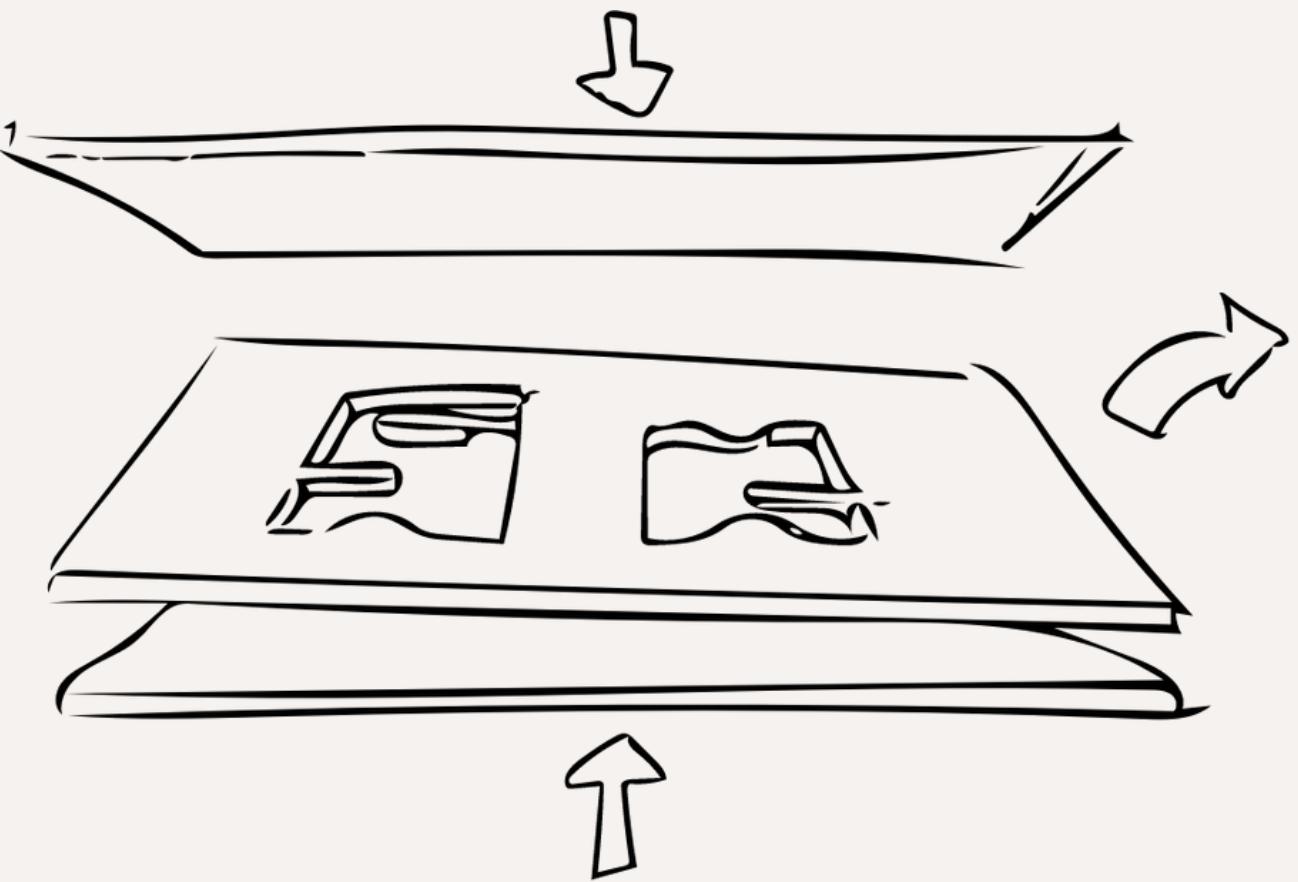


Return and get a new for free



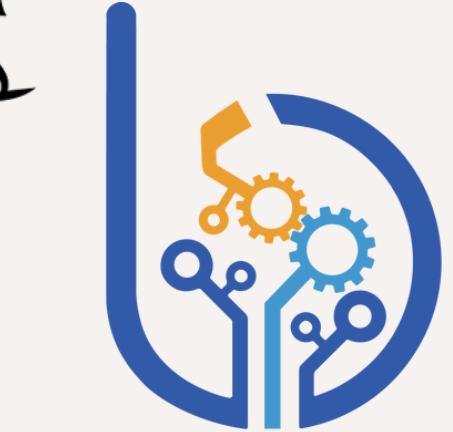
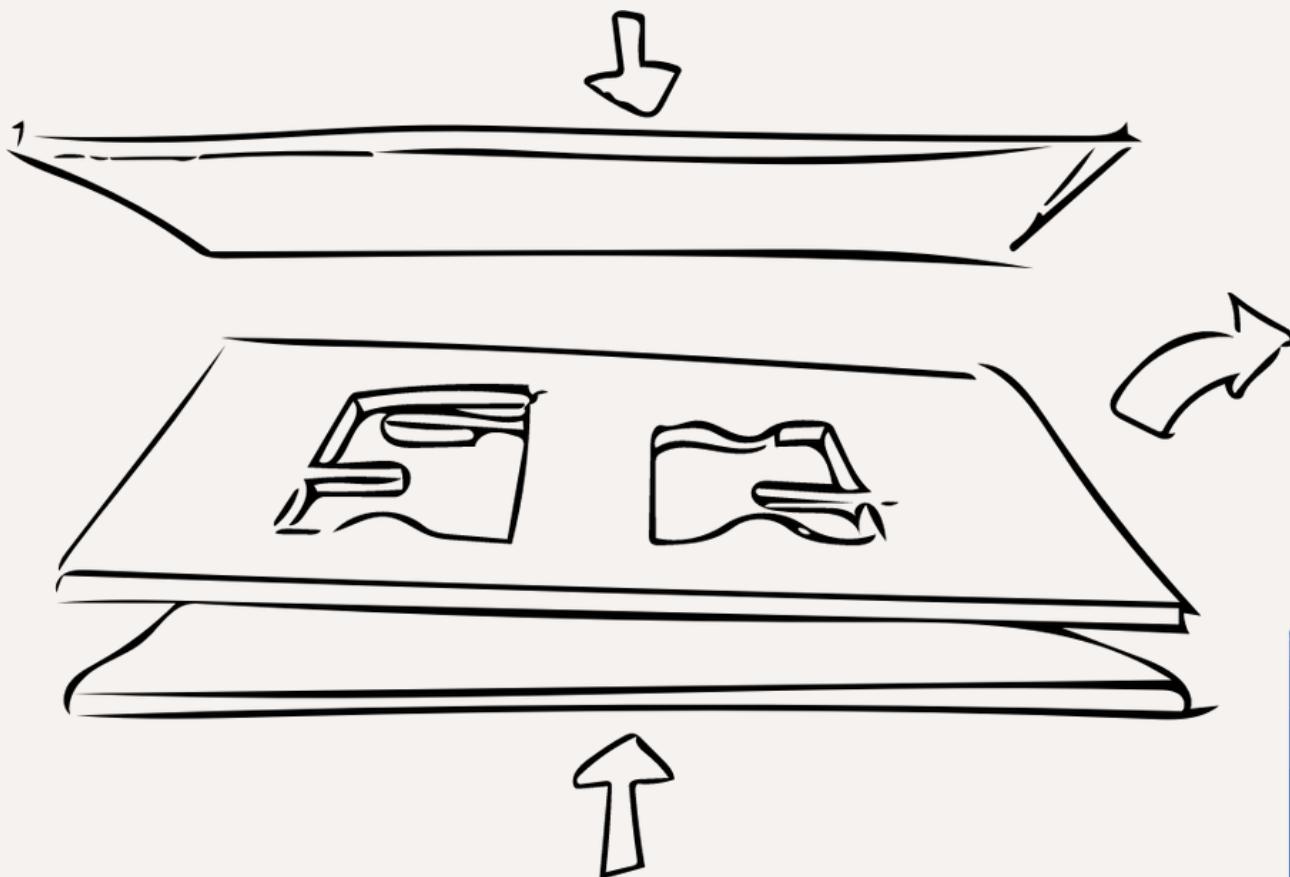
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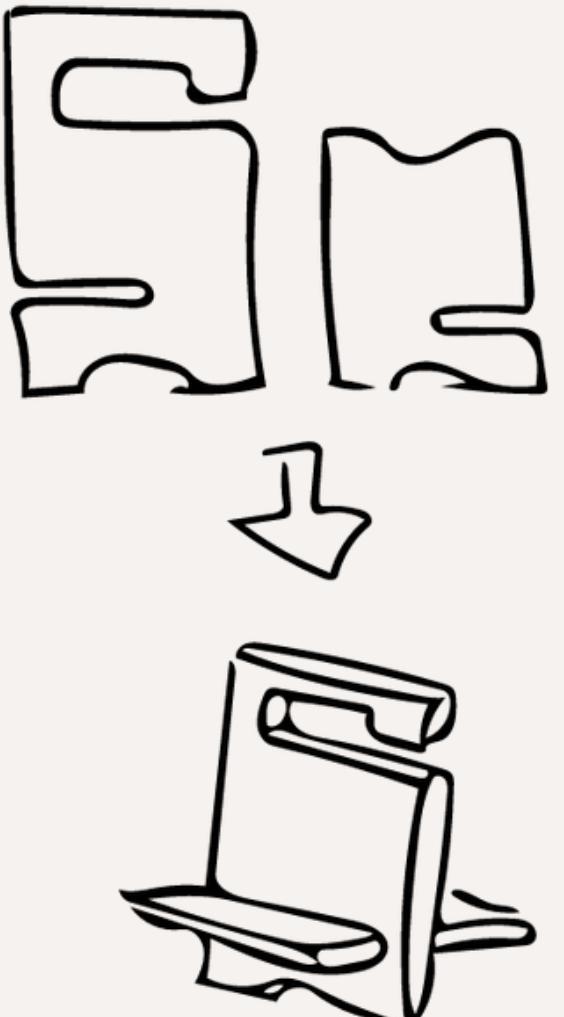
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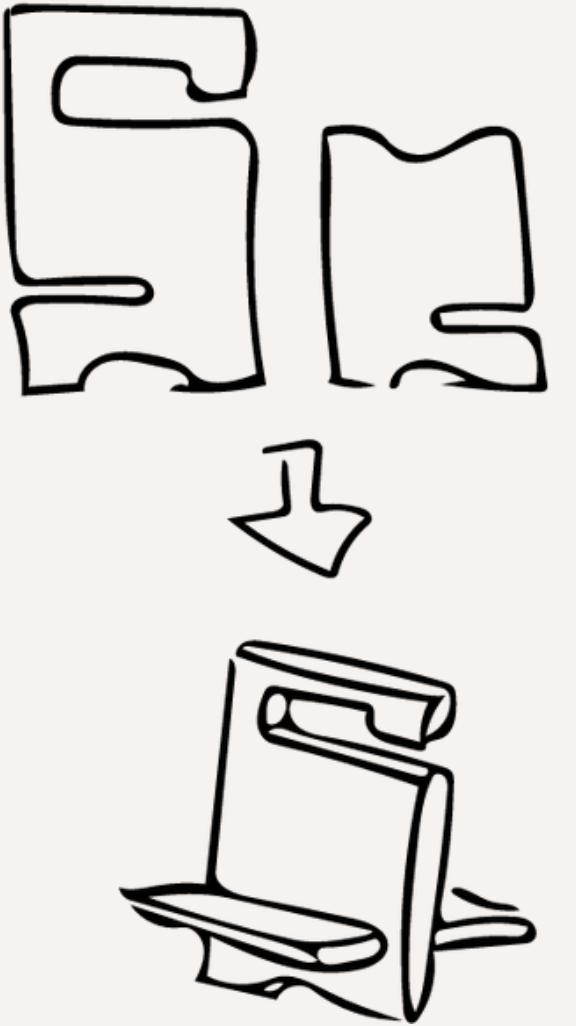
**Bongo TECH
& Research Labs**

...defining the Future of Innovation, TODAY



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3 kg =

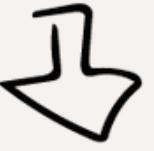
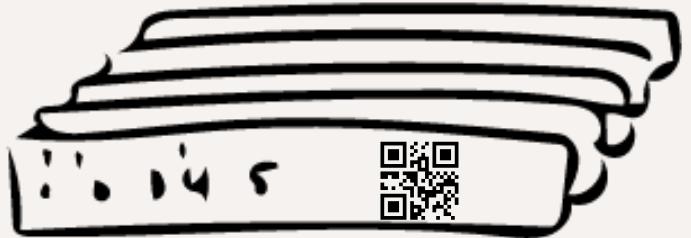
3

or

1

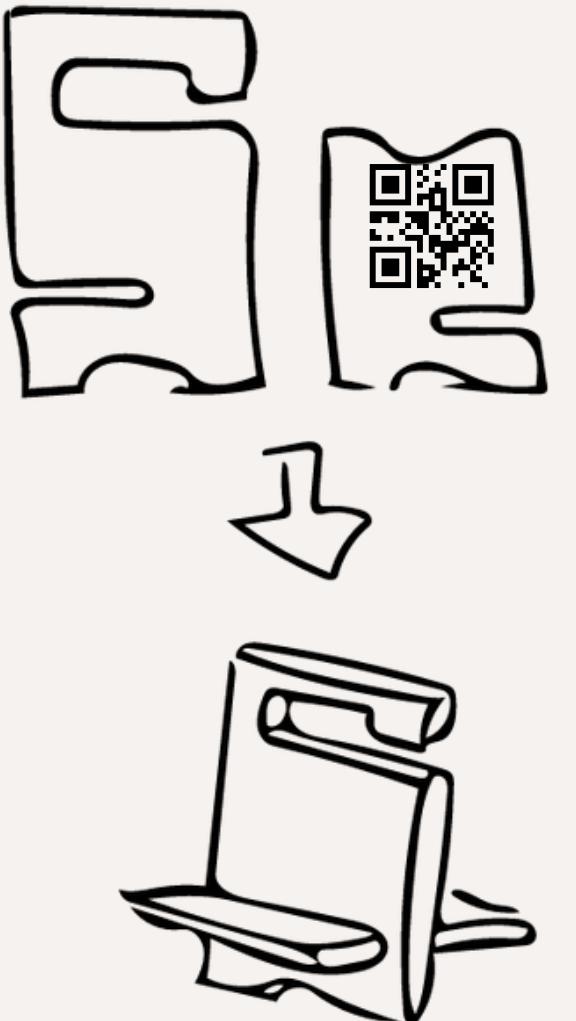
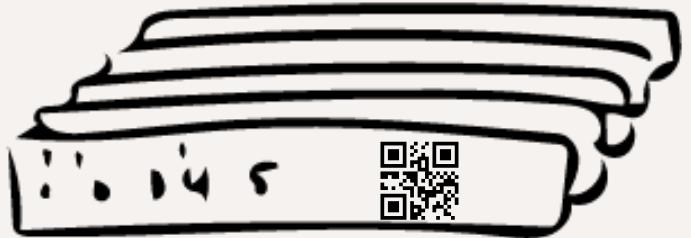
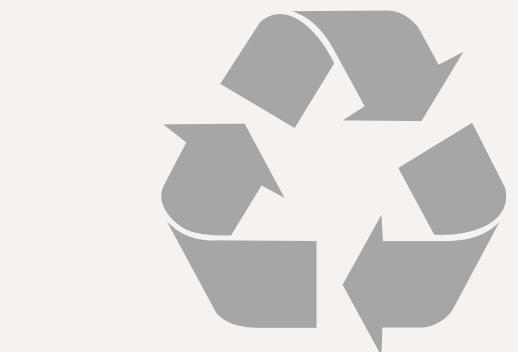
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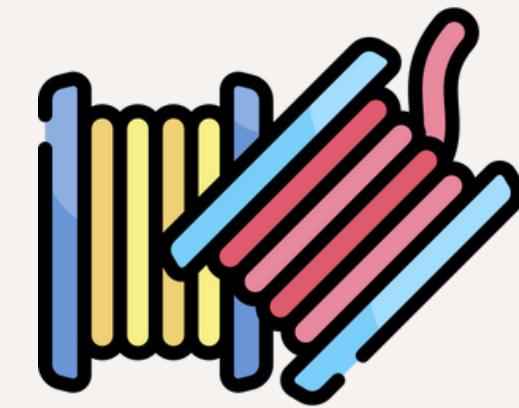
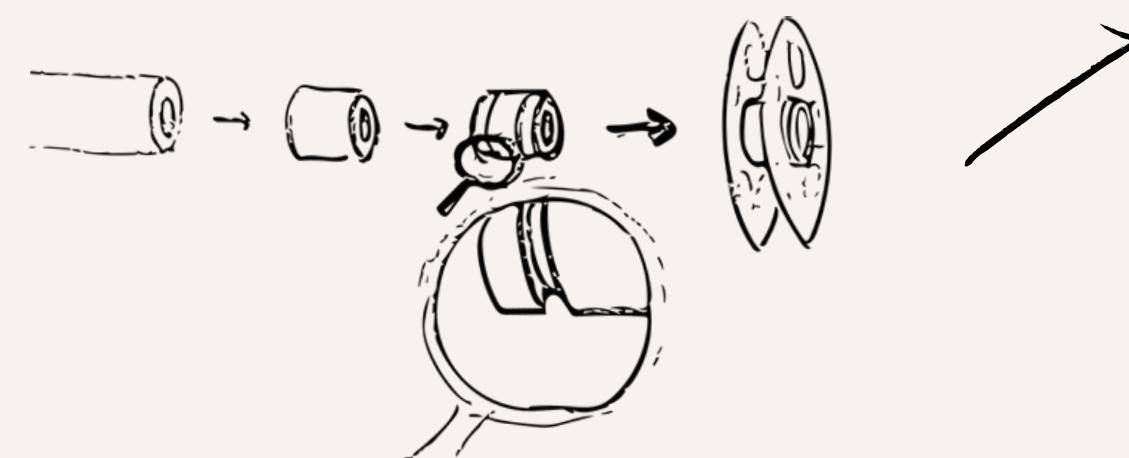


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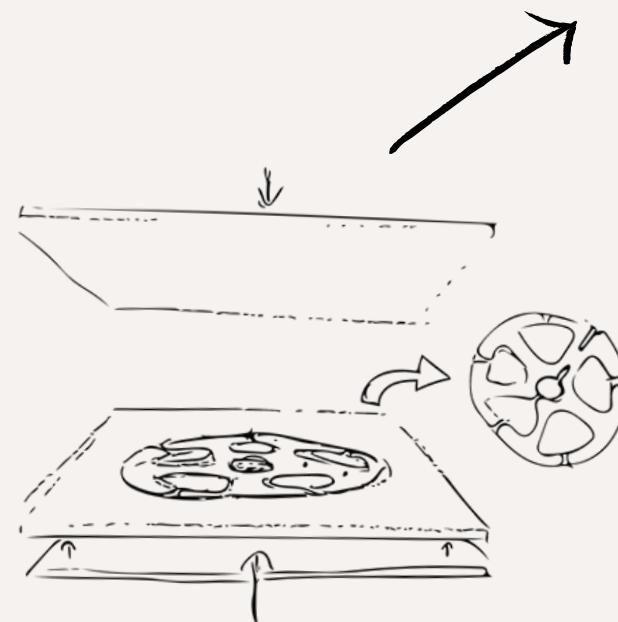
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Revenue creating products



3D-filament



Both filament and spoles
can be made in the container



High tolerances



16 á 750 g spoles pr. day



Revenue creating products



Increasing market

- 70% in Norway



Local pilot customers

- 30 USD/kg



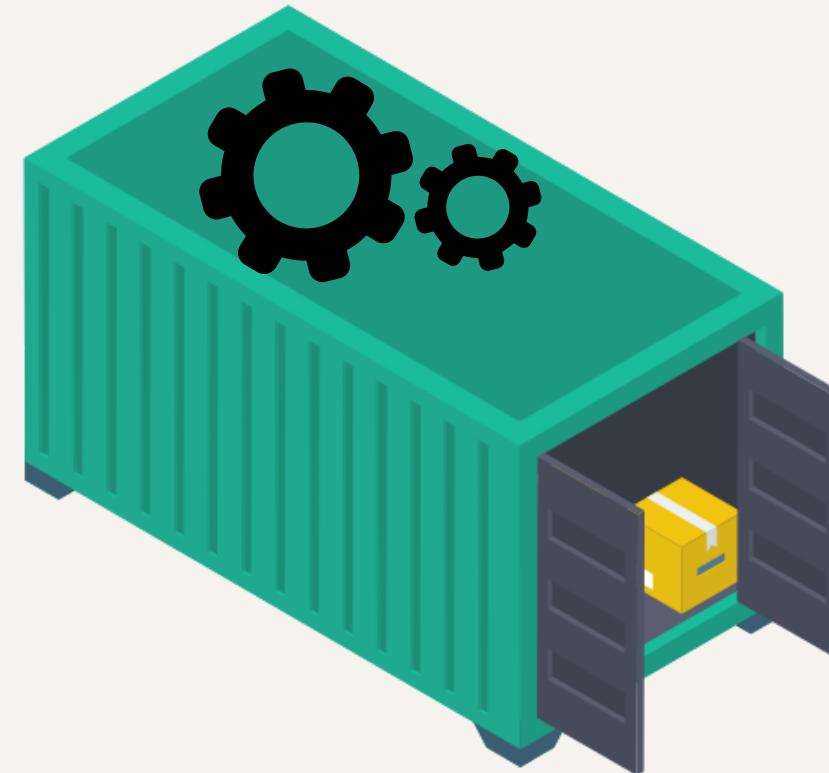
Win-Win

Pilots: Cheap filament

Team: Cover operation costs



Sustainable operation



Efficient operation consumption:

Shredder: 6 hr x 2kW

Extruder: 6 hr x 2kW

Compressor: 4 hr x 3kW

Total pr day: 36 kWh



Sustainable operation

5 Solarpanels at Mbongeland beach:



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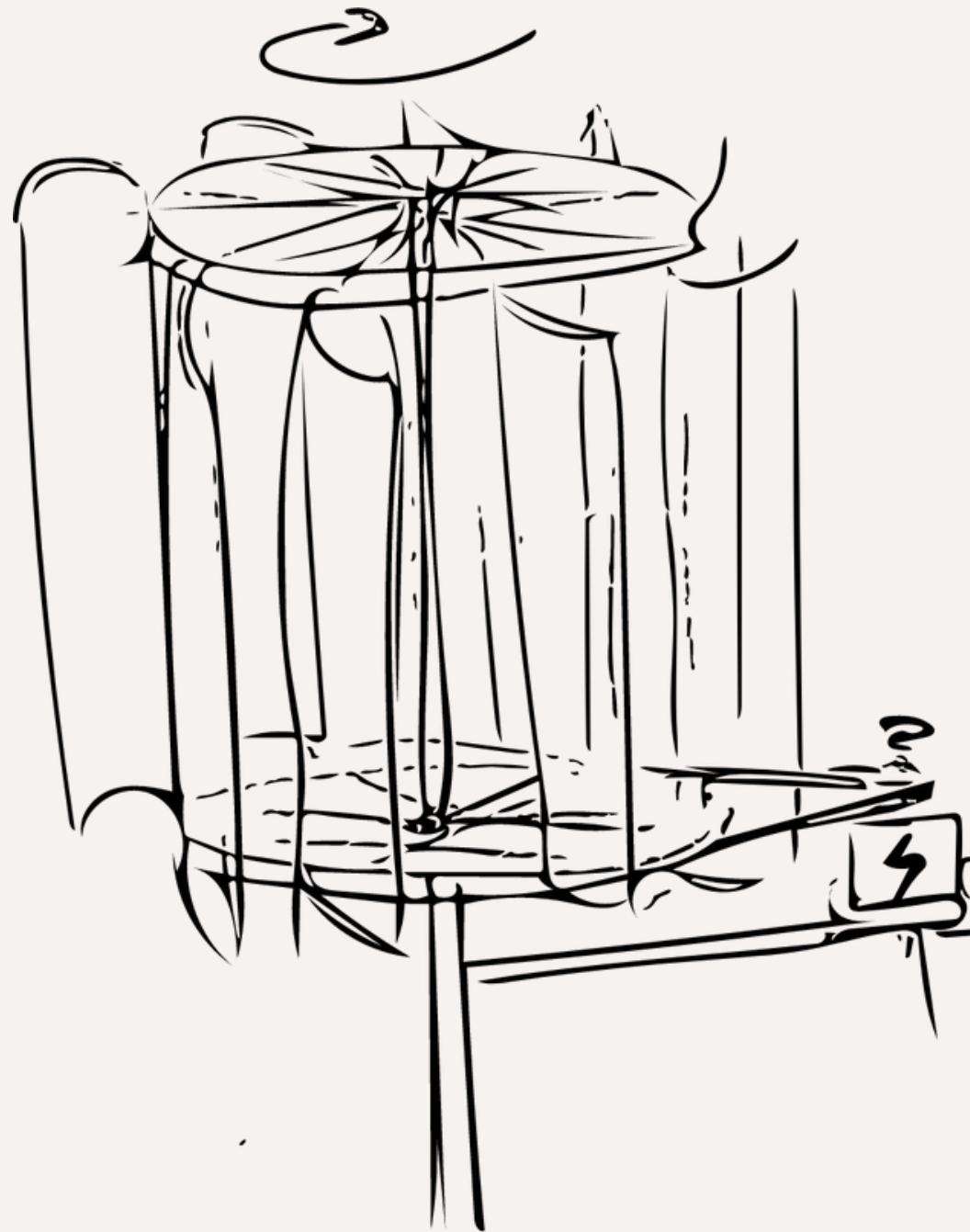
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Sustainable operation

Supplemental energy source



Vertical windmills



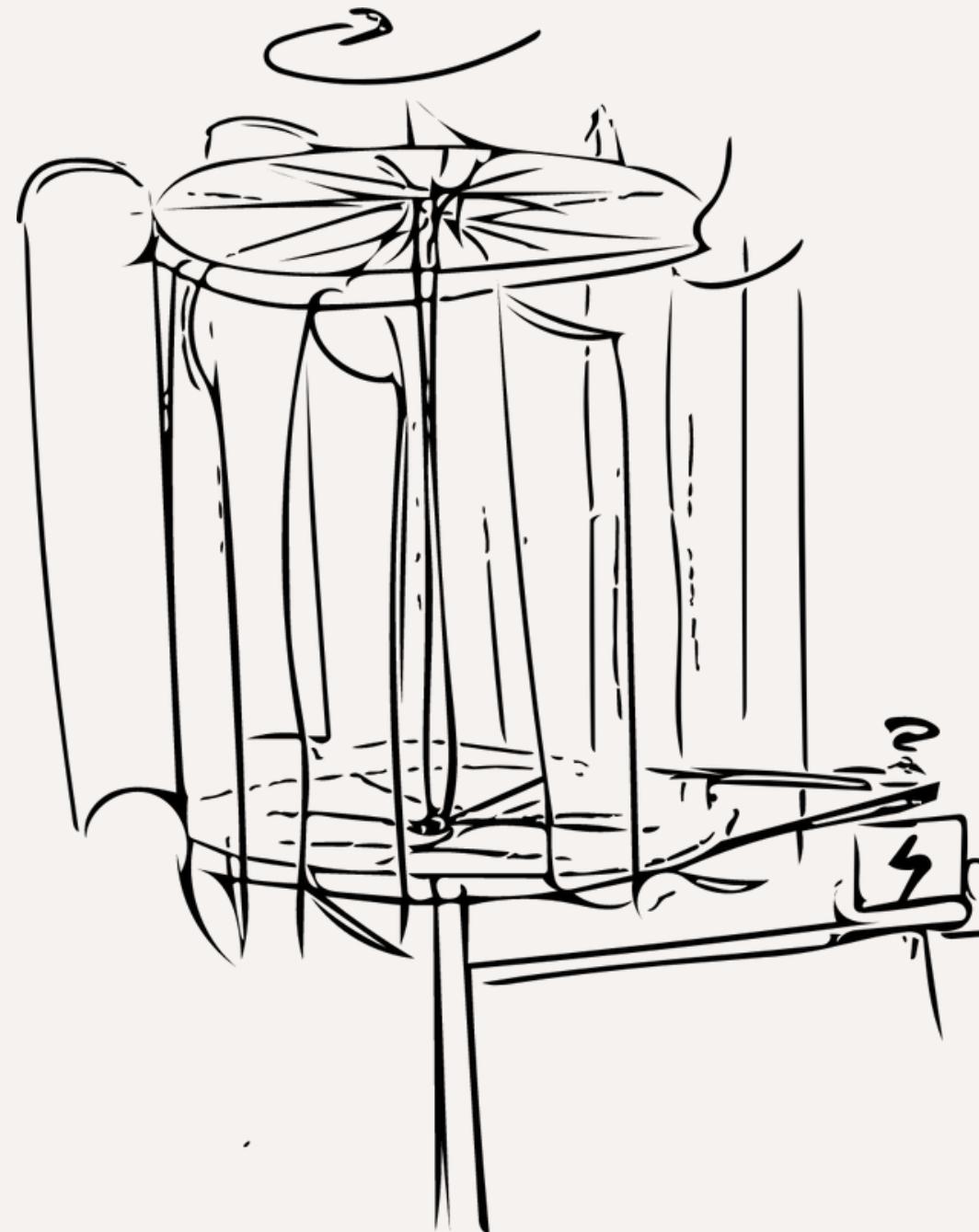
Helps to cover the necessary
energy consumption



Off grid - biofuel generator

Sustainable operation

Supplemental energy source



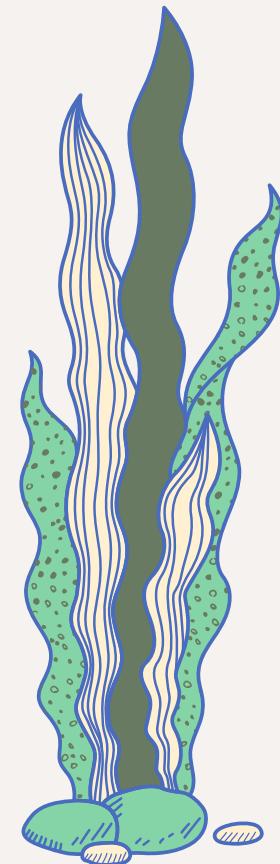
Vertical windmills



Helps to cover the necessary
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Off grid - biofuel generator



Sustainable operation

Drying process



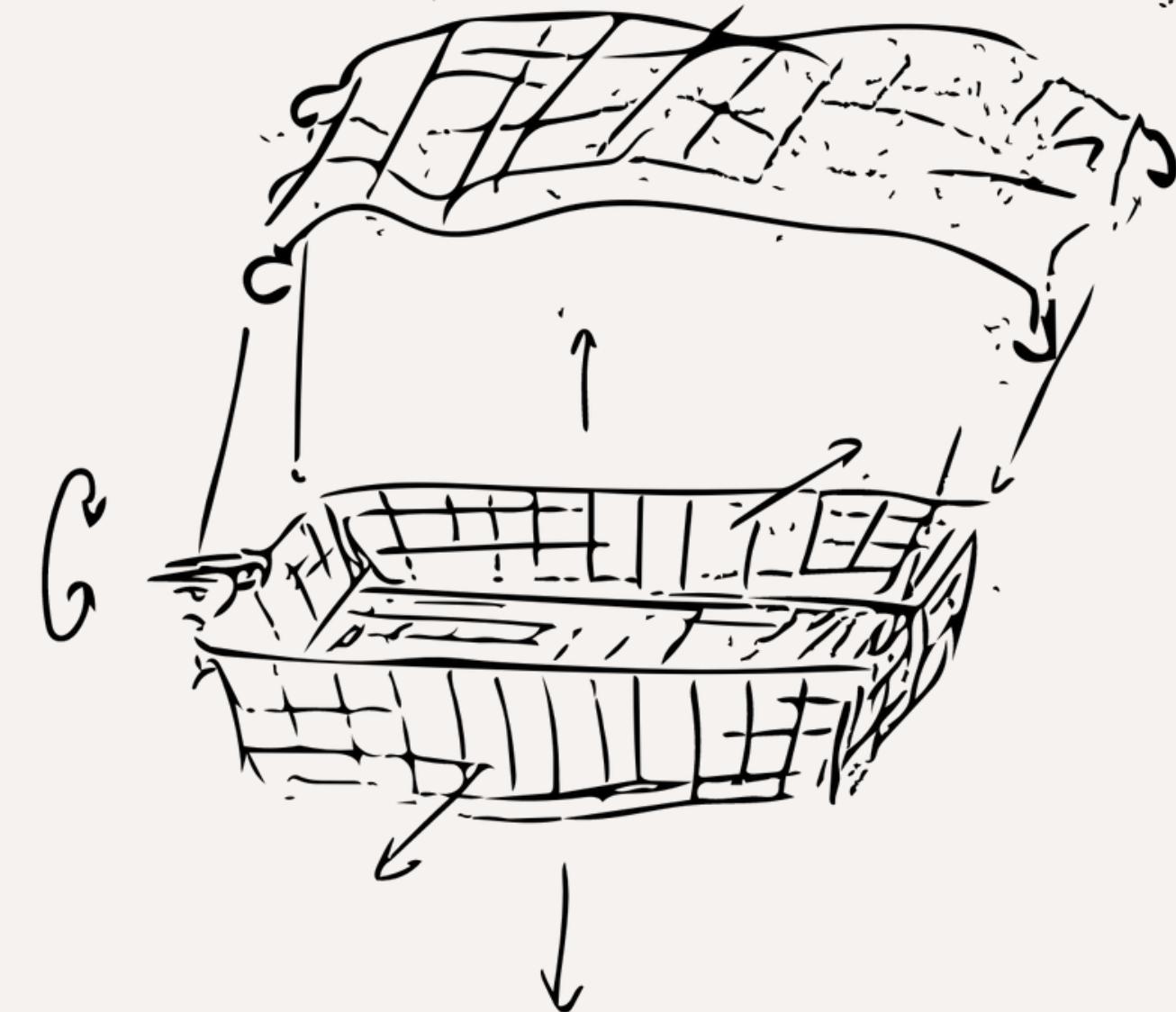
No need of power-driven machines



Compact and lightweight



Made of what's available



Next step

Scale production of filament and local products



Export recykled filament to scandinavia



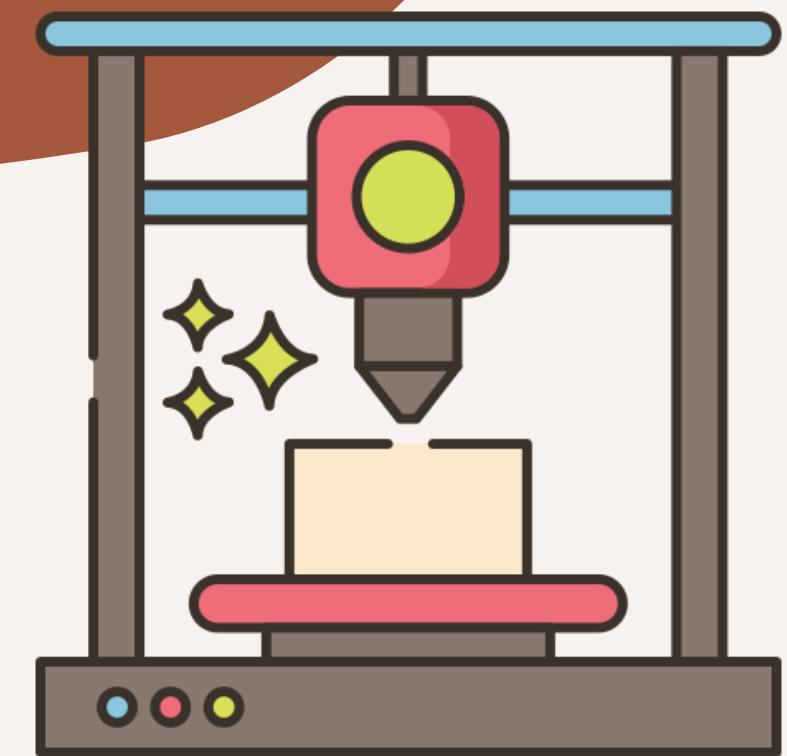
Additional revenue = additional local value



Plastic-for-gas model: provide additional local value -
while solving an issue



Mangroves can be protected



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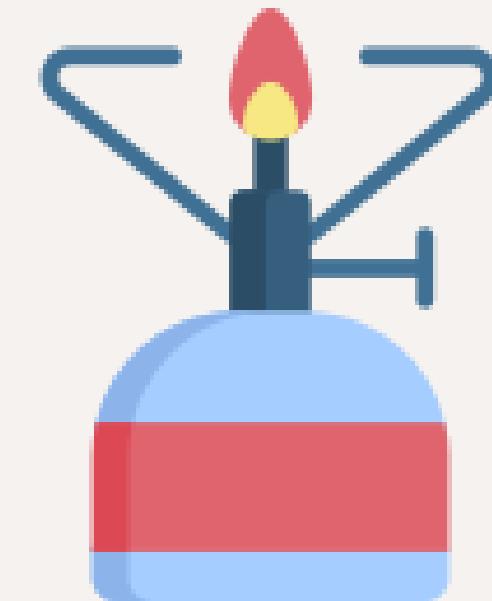
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Duplicate the container concept and business model

