

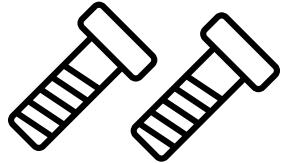
Sample Snatchers: Life Cycle Analysis

Goal and Scope

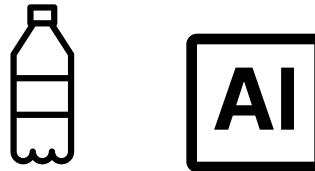
The scope of the Life Cycle Assessment (LCA) of the Sample Subway evaluates the cradle-to-grave product life, examining the environmental and social impacts. This analysis will concentrate on the extraction and disposal of raw materials used for the development of the device.

Design Changes for Climate Initiative:

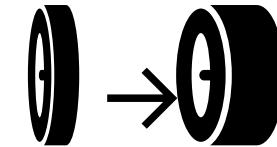
Fewer Bolts



Plastic → Aluminum



Wider Durable Silicone Wheels



Product Composition

Components

Material

Weight (g)

Weight (%)

Chassis	Hydro 75R - Aluminum	2103.2	93.88
Wheels	Silicone	8.2	0.37
Circuit Board	FR4 Composite	25.0	1.12
Wires	Copper	25.0	1.12
Battery Cells	Lithium	3.78	0.17
Battery Cells	Lithium NMC Oxide	75.0	3.35

Inventory Analysis

For the extraction of raw material in our inventory analysis we focused on the material acquisition of aluminum and it's impacts.

FROM THE LINEAR ECONOMY
TO A CIRCULAR ECONOMY

For the disposal of our device we followed the proposed disposal plan from CNL.

