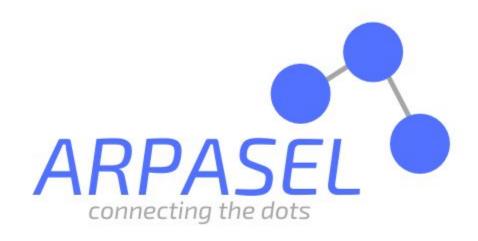


Hackathon: the circular diaper

Team 6 - ARPASEL

Dore Ashly Dsouza Eltonjohn Roick Armin Debontridder Pauline



Developing a circular business case for diapers & incontinence care products

GLOBAL PROBLEM

2 kg/day.

Every year, humans produce millions of tons of waste, there are no signs of slowing down.

Dramatic consequences

on the planet such as air pollution, climate change, and the general public is increasingly concerned

3.4 billion tons

Of waste by **2050**, an **increase of 70%** from current levels

DIAPER PROBLEM

Absorbent hygiene product (AHP) waste contribute between 2-4% of the total Municipal Solid Waste

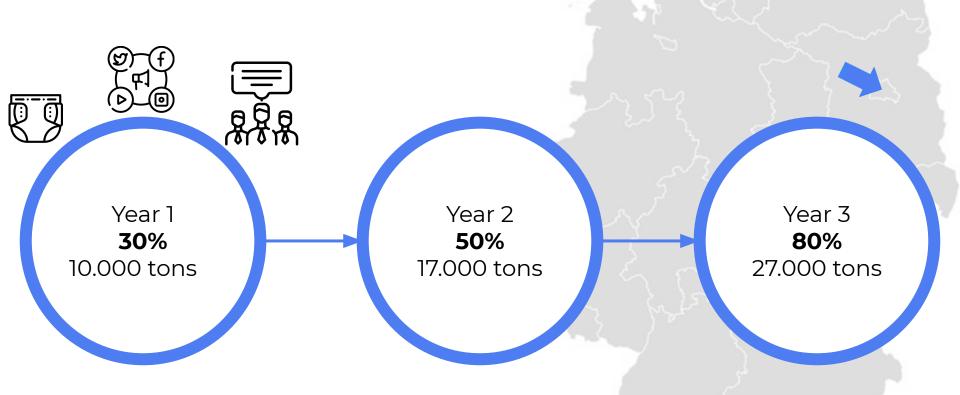
AHP waste in Europe amounts to 8,500,000 tons per year



MISSION

"Offering a circular business case for diapers and incontinence care products by using an app to connect the dots in waste management, collection and recycling"

MARKET SIZE



COLLECTION



Smart **app** for network

Indicate if bin is full & ready for collection

Partnership with transportation

Efficient pick up routes



RECYCLING



Constitutes the major portion of AHP (~28%)





Why SPA? The most polluting element after Pulp (25% GWP_a)



Feasible & good quality of extraction



Recycled Superabsorbent polymer



Market valued at \$149B by 2026 (6% CAGR)



Dramatic increase of fire hazards







Joint venture with Berry Global

UNIQUE FEATURES



Learning & adaptive app



Virtuous circle via network effect



Sustainable & innovative reuse of SAPs



Triple win situation



REVENUE

A sustainable business model

For the environment, society, and profits



