# IHCI Project Proposal

## Rules

- Submit a Google Doc, NOT a PDF or a Google slide.
- Use the default fonts, line spacing, and font size unless specifically required in the assignment.
- After submission, the Google Doc will get automatically locked, so you won't be able to make any changes.
- Standard plagiarism rules apply.
- Your submission will not be considered for grading and feedback if you do not follow these guidelines.

**Names of Group Members:  Rachit Bhandari, Parv Goyal, Pratham Bansal, Nakul Grover, Nishant Tomer**

**Project Group Number: P1**

**HCI Group No.: B-8**

## Problem Statement

**Problem Statement:** "Huge amounts of fashion waste produced by manufacturing firms and designers isn't recycled or repurposed."

**Stakeholders:** The stakeholders include big cloth manufacturing firms, fashion designers and fashion brands and most importantly recyclers.

**Need:** *'Fashion Recycled'* aims to connect fashion manufacturing firms to appropriate recyclers so that the cloth waste generated does not find its way to oceans and landfills.

**Insight: Fashion waste** accounts for **at least 7%** of the **total waste** produced globally and according to [www.weforum.org](www.weforum.org), **less than 1%** of this is **recycled**. This highlights the problem of inappropriate waste disposal which is present worldwide.

## Background of the Problem and Motivation

**Fashion waste** is growing at such a rapid rate that it needs to be controlled properly. It is **extremely impactful** to the environment and our lives too. The following are some

statistical facts from https://earth.org/statistics-about-fast-fashion-waste/ that made us understand the depth of this problem and convince us to act upon this issue:

**1. 92 million tonnes** of textile waste is produced every year.

**2.** The apparel industry's global emissions will **increase by 50% by 2030.**

**3.** The average US consumer throws away **81.5lbs** of clothes every year.

**4.** The number of times a garment is worn has declined by around **36% in 15 years.**

**5.** The fashion industry is responsible for **20%** of global waste water.

**6.** It takes **20,000 liters** of water to produce **one kilogram** of cotton.

**7. $500 billion** is lost **each year** because of under-wearing and failure to recycle clothes.

**8.** Nearly **10%** of microplastics dispersed in the ocean **each year** come from textiles.

**9. 2.6 million tonnes** of returned clothes ended up in landfills **in 2020** in the US alone.

**10.** Fast fashion brands are producing **twice** the amount of clothes **today than in 2000.**

Currently, the majority of the waste disposal system for fashion waste is largely **unorganized**. The presence of multiple **small scale players** in this industry has led to the current state of mismanagement. Further, there is **no proper way** for manufacturers to contact recyclers.

We, at **'Fashion Recycled'**, aim to solve this problem by **bridging the gap** between **manufacturers**, **designers** and **recyclers**.

We have observed that this problem is not bound by any regional or national boundaries hence it is a global crisis to be resolved. The **9th SDG** *"Build resilient infrastructure, promote inclusive and sustainable industrialisation and foster innovation"* and **13th SDG** *"Take urgent action to combat climate change and its impacts"* shall also be worked upon through our initiative.

**SDG = Sustainable Development Goals**

# Scope

Our solution is to create a website where **big cloth manufacturers and designers** can place pickup orders for their fashion waste.

It would be a **simple and easy** way to use the interface where they can **specify date and time** of pickup after entering essential **details** such as the **length**, **material type** and **color** of the consignment.

The cloth **quality** will be **assessed** and **cross checked** at the time of pickup. The cloth would be **directly shipped** from the manufacturer to the recycler, so, it results in a **hasslefree experience.**

Further, a dedicated section would be present for recyclers to register with us and place orders. The recyclers would get the cloth delivered at **a very cheap rate** as compared to market rates of the same cloth.

# Contributions

Rachit Bhandari - brainstorming, motivation, scope

Nakul Grover - brainstorming, motivation

Parv Goyal - brainstorming, problem statement

Pratham Bansal - brainstorming, scope

Nishant Tomar - background of the problem, problem statement