

Recycle old
clothes



How will the environment be polluted if old clothes are not recycled?

01

Resource Intensity and Pollution in Production: Textile production consumes vast quantities of raw materials (like water and fibers) and energy. The manufacturing process generates significant waste water and waste gases, contributing to water and air pollution. Chemical dyes and treatments further exacerbate environmental harm, contaminating water sources and soil.

02

Waste Disposal Issues: The disposal of old clothes often involves dumping in landfills or incineration. Synthetic fibers, such as polyester and nylon, do not easily decompose and can persist in the environment for extended periods. Incineration releases harmful gases, including greenhouse gases and toxic pollutants, contributing to air pollution and climate change.

03

Microplastic Pollution: Synthetic fibers shed microplastics during use and laundering, which enter water bodies and soil. These microplastics are ingested by marine life and can accumulate up the food chain, posing risks to ecosystem health and potentially entering the human food chain, thus threatening human health as well.

What do children in impoverished mountainous areas need?

- 1. Real needs: provision of warm, practical and suitable clothing for different age groups.
- 2. Health and hygiene: ensure that old clothes are cleaned and disinfected and contain no harmful substances.
- 3. Psychological and social needs: provision of clothing in a manner that respects and adapts to the local culture and protects the dignity of children.
- 4. Sustainable development: environmental education, community engagement and environmental awareness.
- 5. Long-term support: Establish a stable supply chain, combined with integrated assistance such as education and healthcare.
- These measures can effectively meet children's basic life needs and promote their healthy growth and sustainable community development.

The changes that used clothes recycling brings to children in impoverished mountainous areas

- 1. Meet basic needs: provide warm, durable clothing.
- 2. Safeguarding health: Cleaning disinfected clothes reduces the risk of disease.
- 3. Enhance self-esteem: Respect the feelings of children and preserve their dignity.
- 4. Increased opportunities for education: saving household expenditure and putting more resources into education.
- 5. Enhance environmental awareness: Learn environmental knowledge and cultivate the concept of sustainable development.
- 6. Promote community solidarity: Encourage community involvement and enhance cohesion and self-management capacity.
- These changes, combined, improve the living conditions, health and future development of children.



Our thoughts on recycling old clothes

1. On-line recycling: book a door-to-door recovery or provide free postal service.

2. Off-line recycling: Recycling boxes are set up in communities, shopping malls, etc. Regular recovery activities are organized, and fixed recovery points are established in cooperation with supermarkets and convenience stores.

Recycling process:

1. Collection of classifications
2. Cleaning and disinfection
3. Repair and reuse
4. Transport grants

3. Contributions and support:

1. Clothing donations: direct donations to poor mountain children.
2. Fundraising for sale: part of the proceeds are for sale, and the income is used for the purchase of livelihoods or educational supplies.
3. Cooperative contributions: in cooperation with charities, funds are focused on public-benefit projects.

4. Advertising and dissemination:

1. Public education: raising environmental awareness and recycling.
2. Transparent publicity: periodic publicity of recoveries and donations.
3. Volunteer recruitment: encourage social participation.



Recycling Used Clothes

Our project "Recycling Old Clothes" aims to raise public awareness and participation in recycling old clothes through technological means, and to promote the concept of sustainable development.

-For a Better Future on Earth

What is used clothing recycling?

Recycling of used clothes is not just about donating or discarding clothes that are no longer needed, it involves a series of treatment and reuse processes:

- Environmental solutions: Reduce the environmental impact of textile waste and lower carbon emissions by recycling used clothing.
- Public Welfare Donation: Donate usable used clothes to the needy and help people in poor areas.
- Resource Recycling: Reprocessing worn-out clothes to make new textiles or other products



What makes us unique?



- Interactive Functions: Scanning the old clothes through the mobile phone camera, identifying their material and condition, and providing appropriate recycling suggestions.
- Education and Entertainment: Increase public awareness of environmental protection by demonstrating the recycling process and ways of reusing old clothes through AR.
- Independent Learning and Personal Enhancement: Users can learn more about environmental protection and sustainable development through AR to enhance their own environmental literacy.

How does Augmented Reality (AR) work?



- Environment Capture: Use smartphone camera to capture old clothes in the environment.
- Material Recognition: Scanning the clothes, recognising their material and condition, and providing appropriate recycling suggestions.
- Information Overlay: Overlay additional information on the smartphone screen, such as recycling process, reuse methods, etc.
- Complete display: Forms a complete image containing real-world background and superimposed AR data, visualising the whole process of recycling old clothes.

Content Offered

Primary

- Science: Showing how textiles are made and how they are recycled.
- History: to introduce the history of the textile industry and its environmental impact.
- Geography: shows how textiles are produced and recycled around the world.

Advanced

- Chemistry: demonstrates the chemical composition of textiles and the recycling process.
- Physical: to demonstrate the physical properties of textiles and their changes in the recycling process.
- Biological: demonstrates the impact of textiles on the natural environment and living organisms.
- Historical: details the use and recycling of textiles in various historical periods.

Prototyping process

Design and Sketching:

Preliminary design
and sketching using
Procreate.

Functional development

Functional development and testing
using specialised tools to ensure a
smooth and interactive user
experience.



85%

Projects that inspire: Global success stories

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Feedback

By: Emily

- Can accelerate the transportation process en route.
- To have more specific contents related to our targeted audience.

Feedback

By: Ivan

- I think this is a great idea that can help children in certain areas and reduce environmental pollution to some extent, while increasing the utilization of old clothing.
- In the future, there may be a need for improvement, but now, this is an innovative project.

Feedback

By: Tom

- The website is easy to operate. Basic functions have been implemented, but it lacks live customer support

Improvement through feedback

Acceleration of the transportation process

1. Introduction of real-time tracking systems, optimization of route planning, use of faster means of transport and logistics services.

Content for specific audiences

2. In-depth analysis of the needs of the target audience to provide more targeted and refined content, customizing the service according to the interests and needs of the audience.

The green path

Thank you very much!

www.reallygreatsite.com

