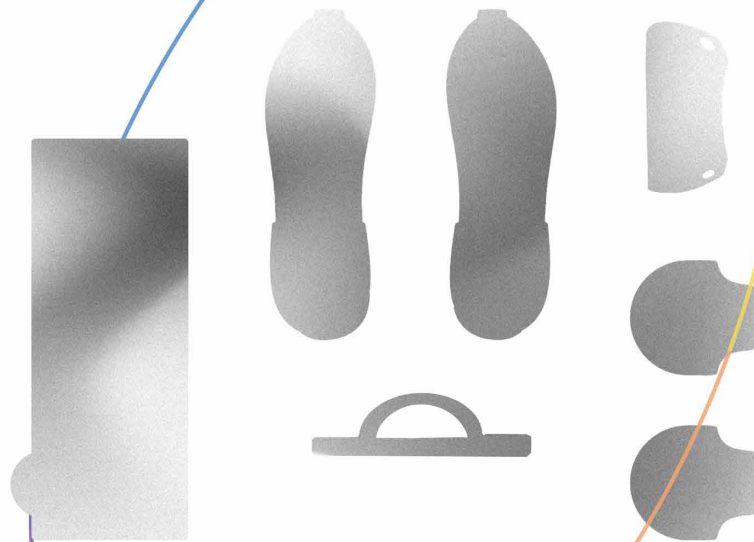
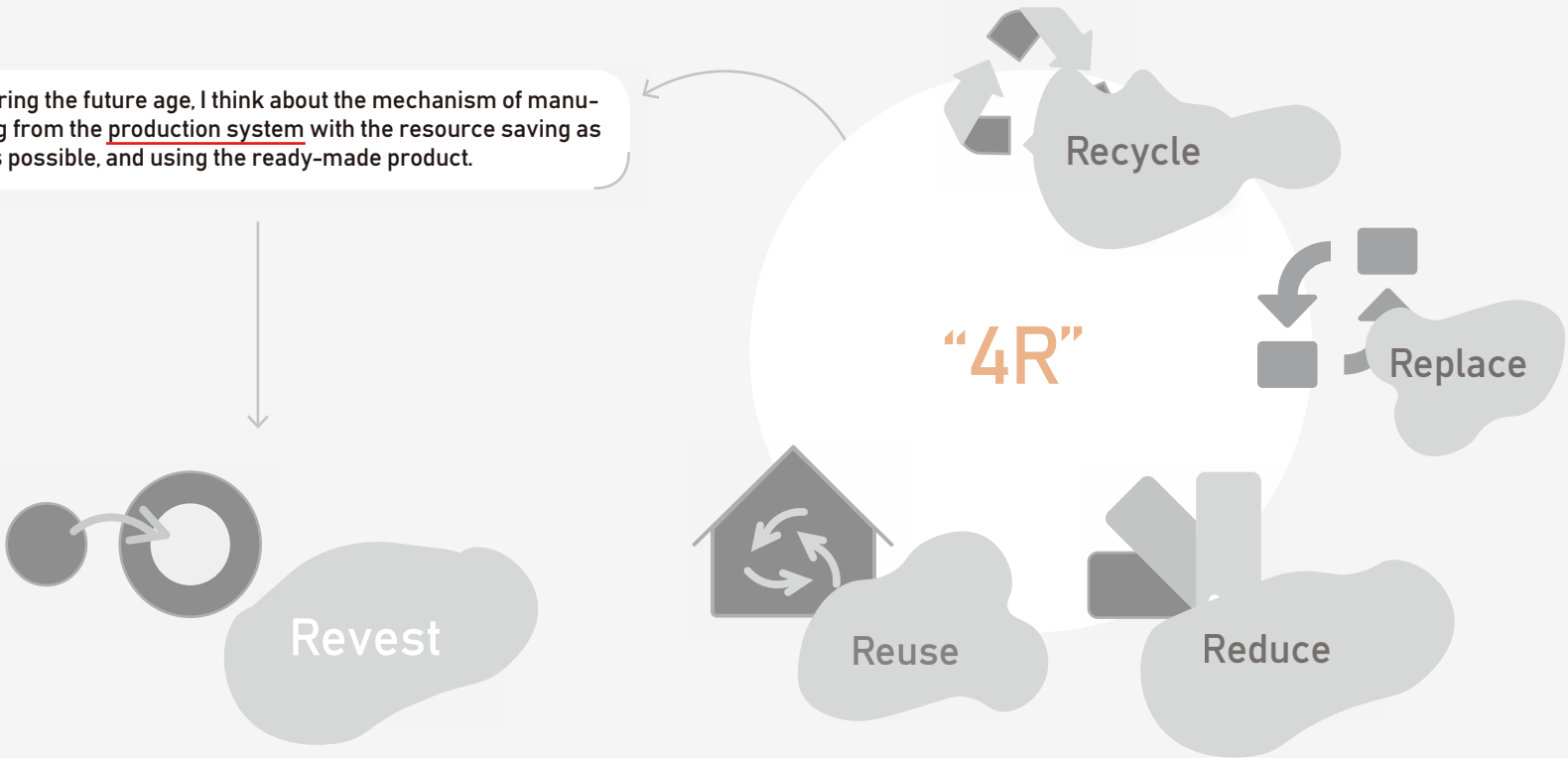


Tianyuan Deng
PROCESS JOURNAL



Considering the future age, I think about the mechanism of manufacturing from the production system with the resource saving as much as possible, and using the ready-made product.



Objective

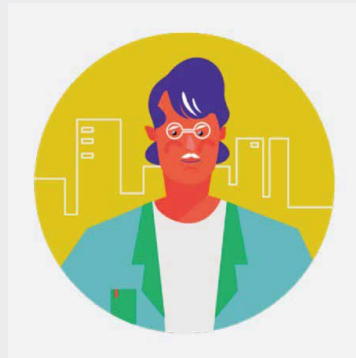
Companies and governments, local governments, and other organizations are working on environmental issues such as global warming, exhaustion of natural resources, marine pollution and desertification. For example, a recycling system based on the sorting of garbage and a plastic bag made of recycled materials provided in a convenience store are well penetrated in our lives. But the user and the general individual are only passive as the end of the recycling system. The effect of sustainability is mainly occurring in the enterprise and government side.

Therefore, it is the present state that the consciousness to solve the environmental problem voluntarily to the individual is scarce and the method is limited.

"Personal participant sustainable product design" is a product design that produces a more advanced synergistic effect by reviewing the relationship between personal life and sustainable design, and by actively participating in the sustainable process.

In this study, I examine the viewpoint of "4R" which is sustainable, and reconsider the conversion of industrial design area from the viewpoint of product design, and propose a new idea "Revest". "Revest design" is a design that clarifies new values and roles by rebuilding upgrades or emotional properties that have been left behind in technology and age.

User Experience Maps



Jack

Interests are wearing vintage and outdoor activities. My parents are the captain of the mountaineering team in the local Mountaineering Association. Since I was a child, I often went to the surrounding mountains with my parents. Affected by this, I gradually like outdoor activities.

| | | | | | | |
|---------------------------|----------------------|---|---|--|------------------------------------|--------------------------------------|
| Stage | notice,care | compare, discuss | make it | finish, share | in use | after use |
| Touch Point | activities publicity | mobile phone, PC | instructions, videos | mobile phone PC | product | product |
| Action | browse | purchase | handcraft | SNS contribution | wear | idle |
| Experience Feeling | | | | | | |
| Problem | | How to buy? Want to see what the finished product looks like. | Not very good at manual work. | | Freshness decreases | |
| Design Chance | | A function that can be confirmed before making a shoe | The manufacturing procedure manual and the template for cutting materials | Making an exchange place for sustainable | The material can be easily changed | A system that circulates unnecessary |

● **The main function of this product cycle**

Online sharing ideas

+

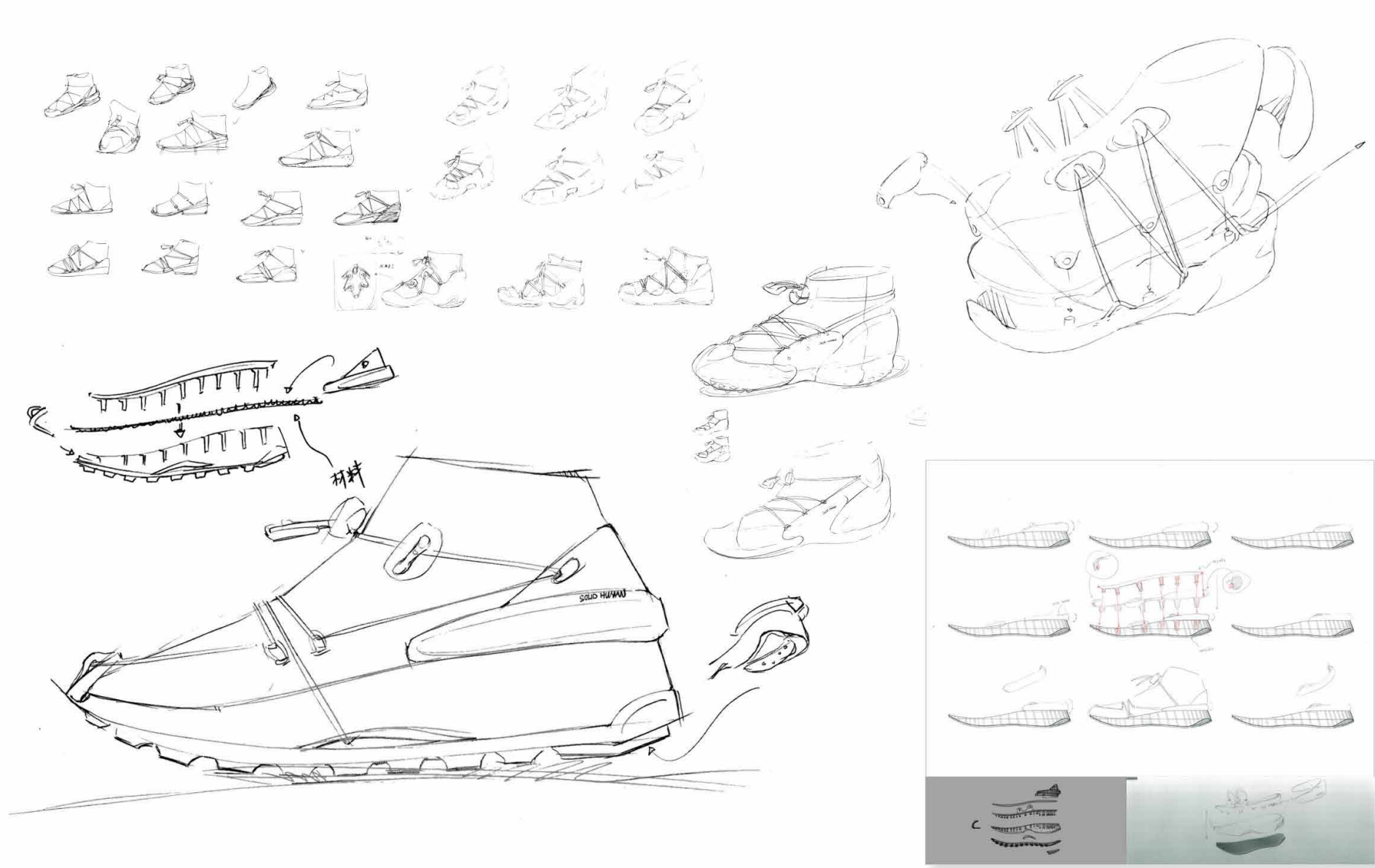
Material circulation system

Target users: consumer groups with certain manual ability, certain consumption ability and interest, certain environmental awareness.

Inspiration



Sketch

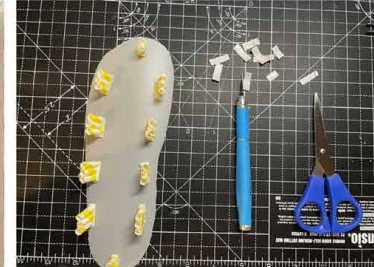


Prorotype-N0.1



Experiments show that the shoelace passing through the fabric will enhance the durability and comfort of the shoes. In order not to reduce the service life and warmth retention of the material, the buckle may be used in the subsequent design.

Tested by myself



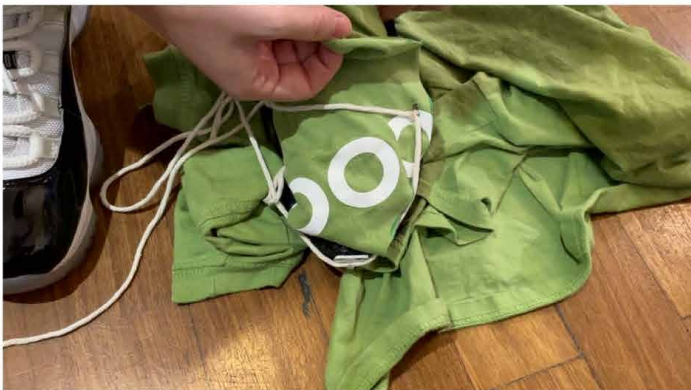
Tested by Tianhe and Tia 22 years old, RCA DP1

"It's a little difficult to cut the cloth along this template. You can fix the cloth and trace the outline. The way of sticking the fixing buckle to the cloth is not very firm, and the cloth and sole are not well fixed together."

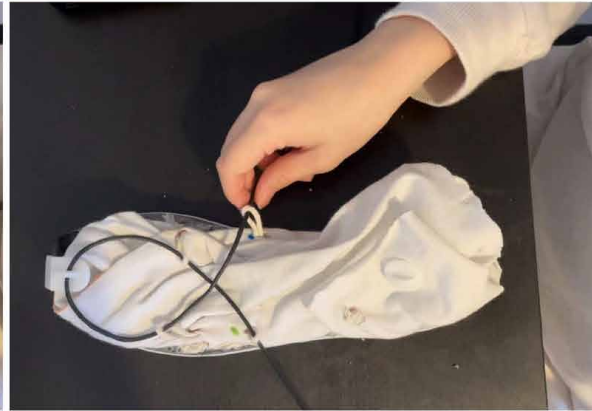


Tested by Tianshu Chen 27 years old, self-employed

"It's important to have a detailed manual, especially for people like me who don't know how to do manual work. Moreover, it's best to have a punch to better cut holes. It's a little difficult to press the wooden stick on the insole into the hole on the sole. They fit too tightly"

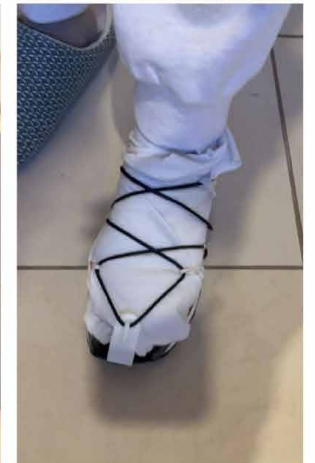


Prorotype-N0.4

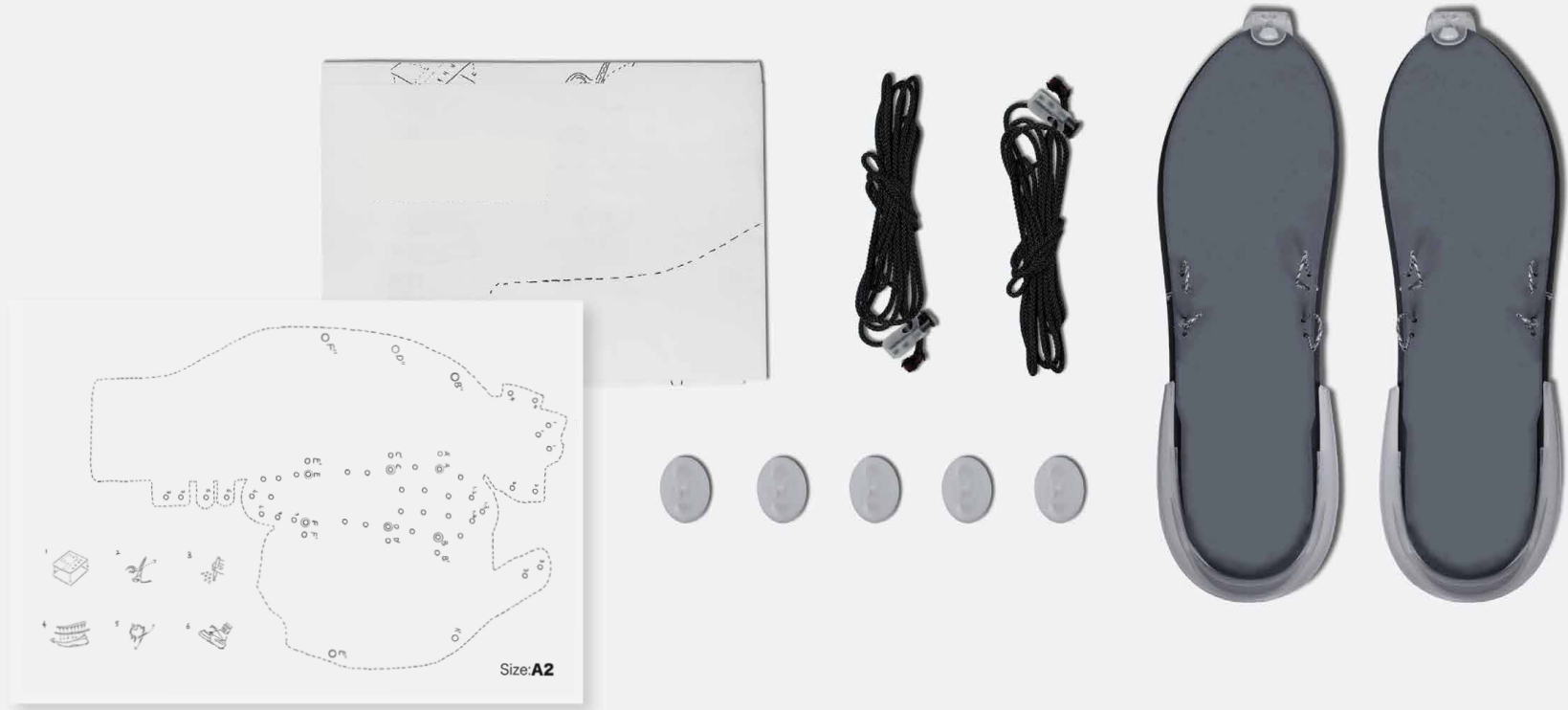


Tested by Biying Sang

"This puncher can punch holes quickly, and two different punches can be applied to different fabrics. The comfort of this pair of shoes is also very nice. I need to take a look at the tutorial from time to time. It took me about 18 minutes to make this shoe alone, which is not difficult. This is a very creative idea, but I think you need a slogan, such as 'save the earth with your hand' to lead a kind of new trend. "

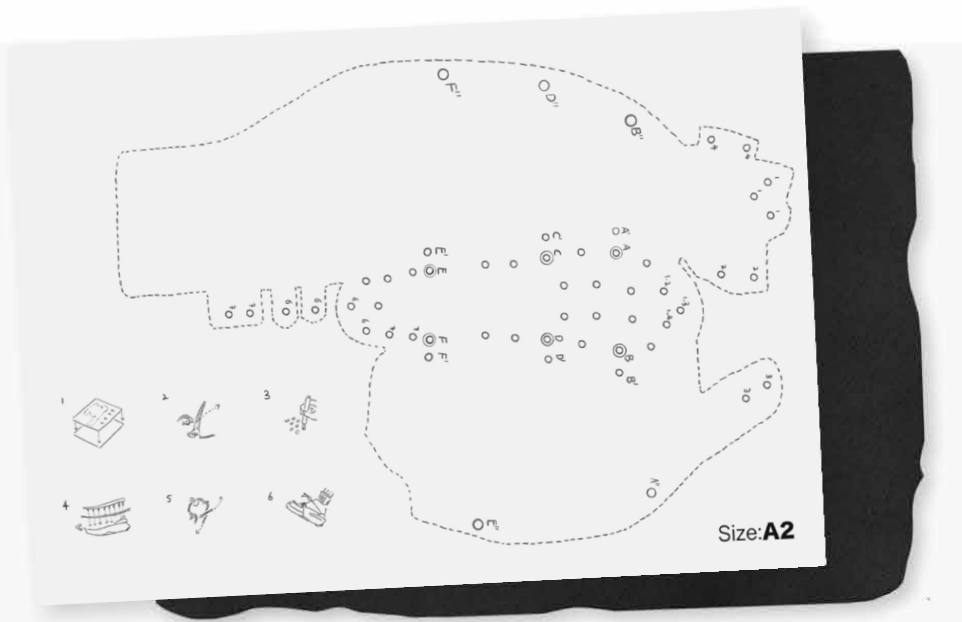


Parts Set

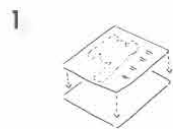


Contents

- Instruction manualx1
- solex2
- insolex2
- shoelacex2
- buttonx6



Manufacture method



1 Trace the outline on the cloth with a template.



2 Cut the cloth.



3 Punch holes with puncher.



4 Assemble insole, cloth and sole.



5 Follow the tutorial to tie your shoes.



6 Finish!



Easy exchange

The material can be easily replaced, it is convenient for dirty work or disaster. You can also enjoy the charm of unique facial expressions.

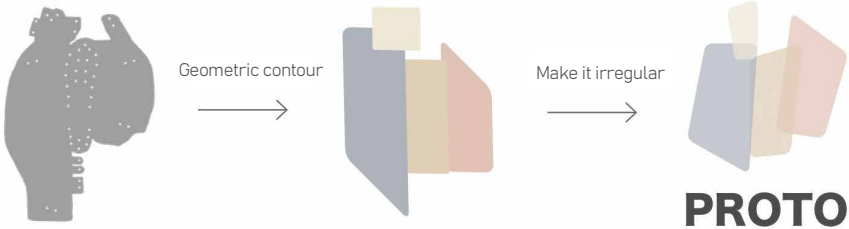


Service System&APP

App structure

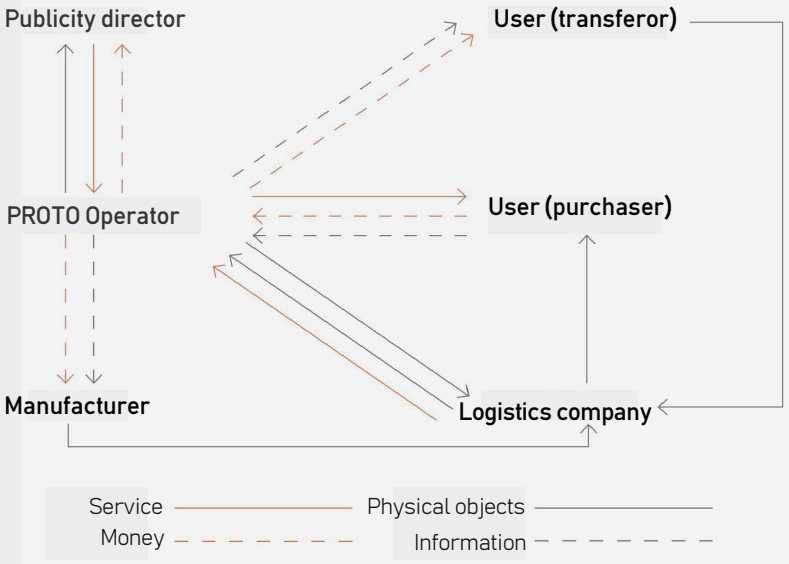
- Studio**
 - Production Make 3D model of shoes with app
 - My design Preview shoes and everyone's contributions
 - My material library List of scanned materials
 - Public (release) submission List of submitted works and materials
- Feed**
 - Search Search for posts or news using keywords
 - News News or posts related to sustainability
 - Event View and participate in ongoing events
 - Topic Topics for discussion
 - Contribution View posts and buy materials
- Search products**
 - Search Search products
 - Footwear Shoes on sale
 - Material Materials collected through activities or donations
 - Others Parts and peripheral goods
- Personal home page**
 - Configuration Application settings
 - brief introduction View and edit personal information
 - Inbox Message received
 - Make oder Order list
 - Sustainability level Levels by EXP
 - Activities involved Confirmed event
 - Received material fragments The number of pieces of material

Icon Design



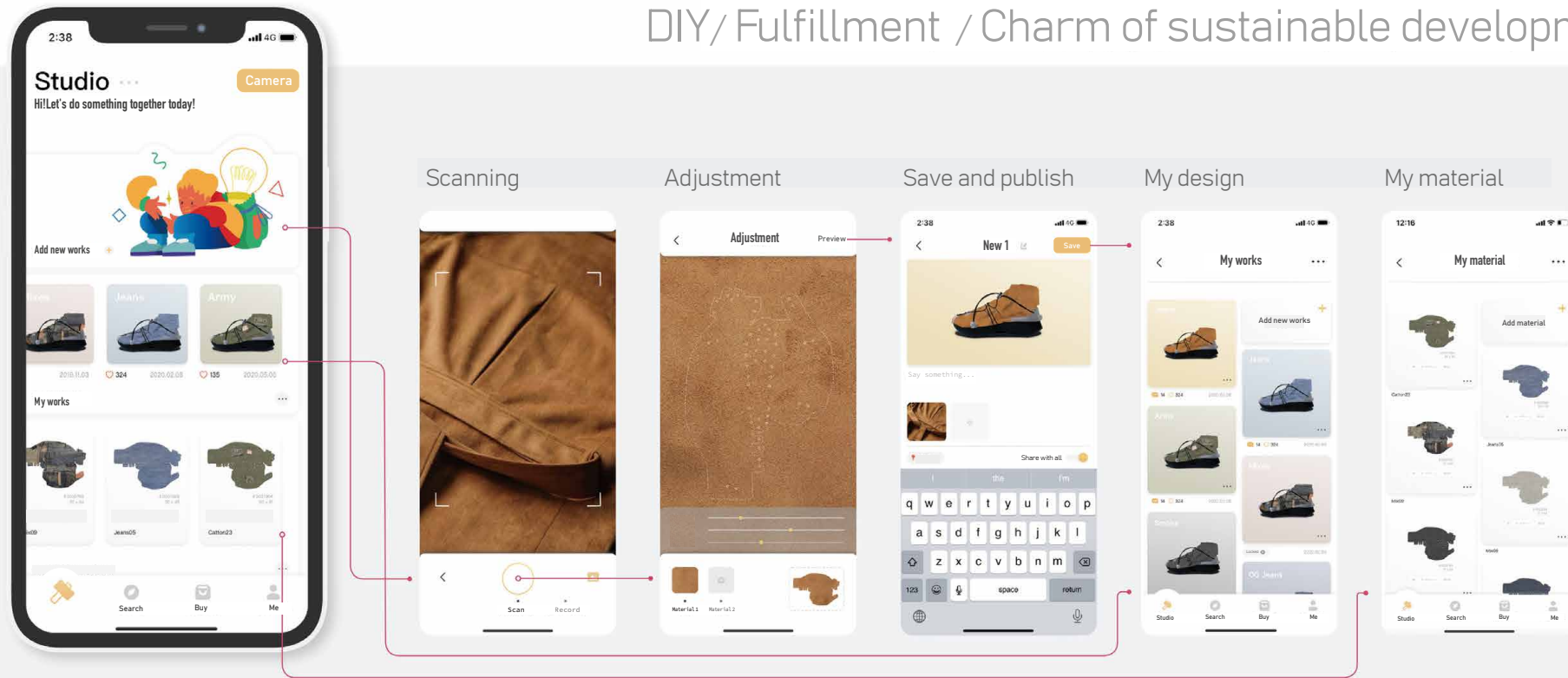
"Proto" means "prototype" from the word "prototype".

System diagram



Service System&APP

DIY/ Fulfillment / Charm of sustainable development



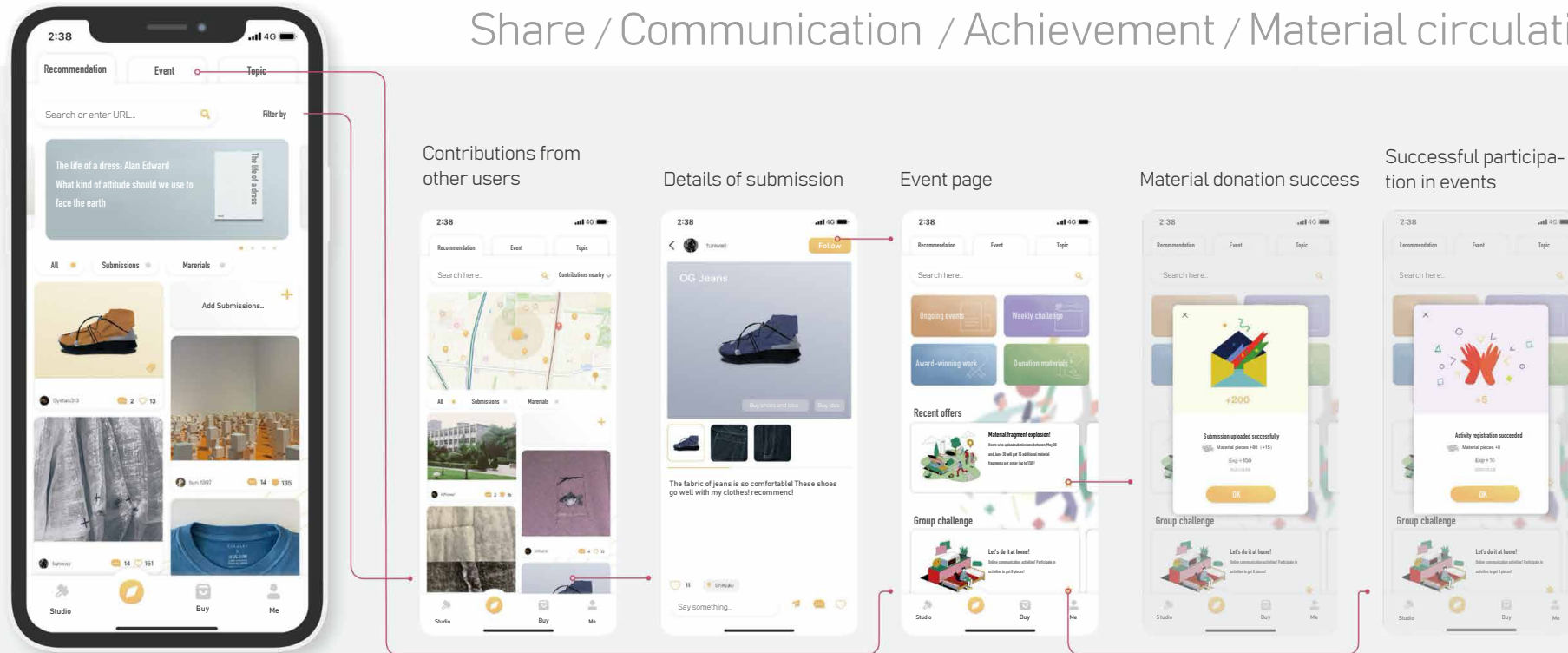
Studio pages

On the studio page, after the user scans and adjusts the material to be used for making shoes, the system will automatically generate the 3D model of shoes made of this material. Users can save the completed works to "my design". In addition, users' own works can be published to SNS system.



Service System&APP

Share / Communication / Achievement / Material circulation



Browser pages

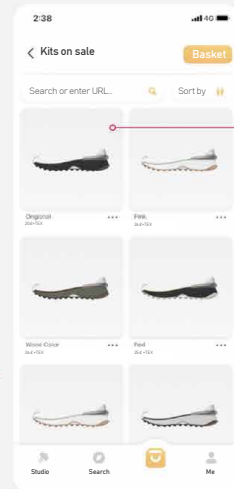
The browser page is divided into three parts: recommendation, activity and topic. On the recommendation page, users can see the hot submissions and the submissions around them. It contains contributions of works and materials. Other users can also buy those materials and materials online. In addition, users can participate in the activities and challenges organized by the operator on the activity page, and then they can get the "material fragments" used as currency as compensation (which can be used to buy coupons and other products).



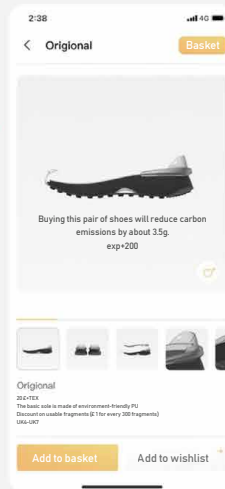


Purchase of shoes

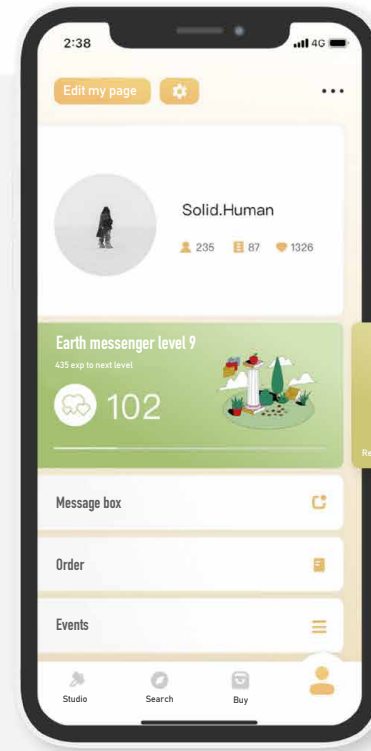
Kits on sale



Details of kits



Sense of accomplishment in protecting the planet



Material pieces
1250 pcs=1%

Reduced CO₂ 78g | Water saved 64ml | Save 36m² of fabric | 19 material cycles

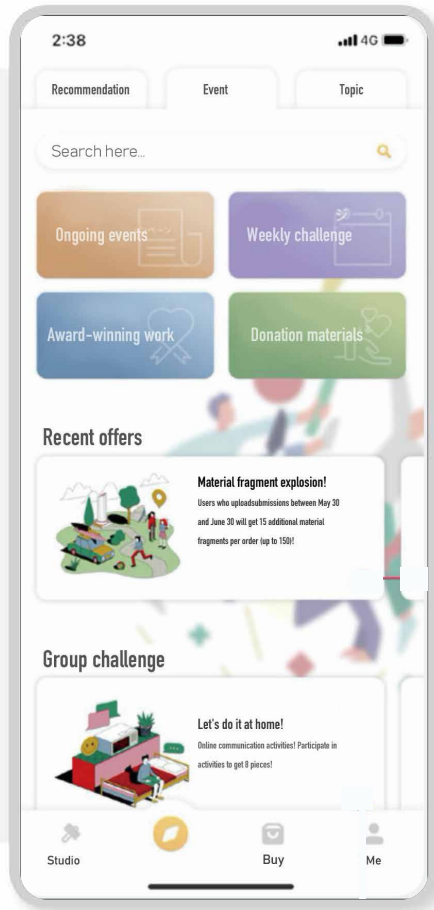
My page

Here you can change the settings of the application and personal information. Moreover, the process of participating in the event can be confirmed. The "material fragments" obtained by users or by donating materials, and the "earth messenger level" achieved according to the "exp" received by purchasing products and participating in activities.

Online store and my page

In the online store, you can buy "Shoe kits" in various colors, and you can also confirm the final finished products matched with your scanned materials. In addition, other parts and materials recovered by the operator through activities and donations can also be purchased.

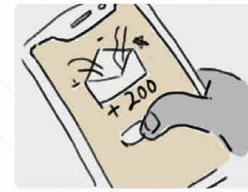




1. Participation and activities



2. Donated materials



3. Material fragments received



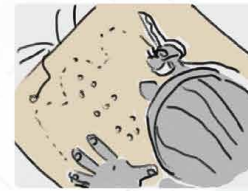
4. Scan waste clothes



5. Confirm the 3D of the finished product



6. Buy Kit



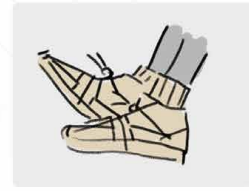
7. Production



8. Contribute to completion and seed



9. "OK!" get



10. Can be cleaned or replaced at any time

Handmade product design



Service design drives a virtuous circle



Chance to know the charm of sustainability

