

SENCE-OF PLACE

Sence of the

entrance of the Huangbian Village Kindergaten There are a lot of safety harzards on

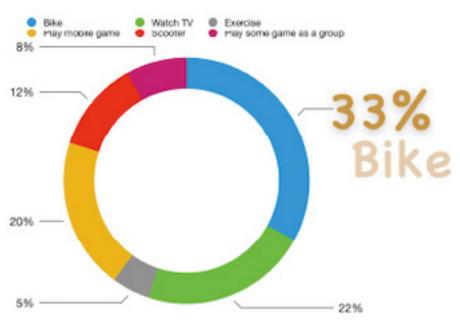
the way from school to home

In Huangbian Village are generally the elders take care of their grandchild ren

The number of people come to pick up the children ,elders is more than children's parents

> Huangbian village children are generally introverted, there is no group entertainment activities

There are about 800 children in this kindergarten







The questionarie about children in Huangbian

Inspiration

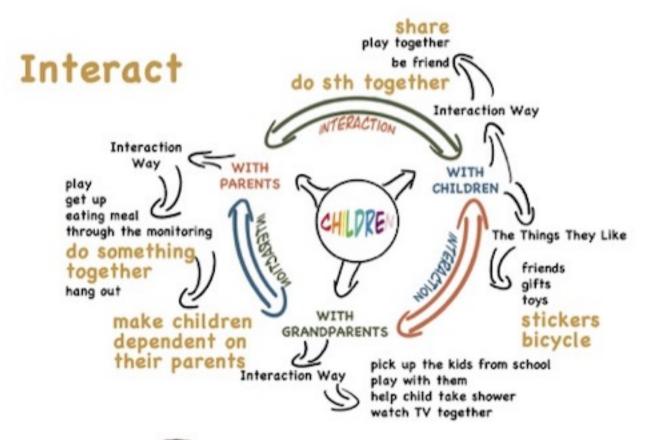
Children in Huangbian Village are generally raised by grandparents. From birth to five or six years old, they do not have close relationship with their parents, which is also due to this growing environment. Most children are

introverted. Through questionnaires and surveys, it is found that children's favorite activity in Huangbian Village is riding bicycles.

Inspired by these,

I plan to design a bicycle that can connect children and parents, so as to ease the relationship between children and parents in the absence of companionship.

Research





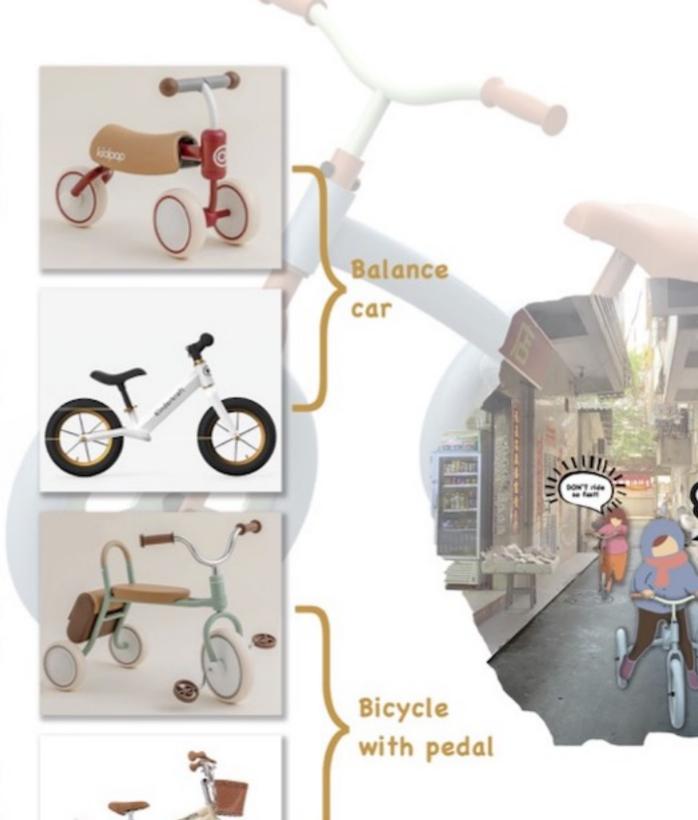


Suitable for toddlers, this balancing bike is leg-propelled

Better for older children, two wheels for balance

This bike with pedalis safer for younger children than two wheels

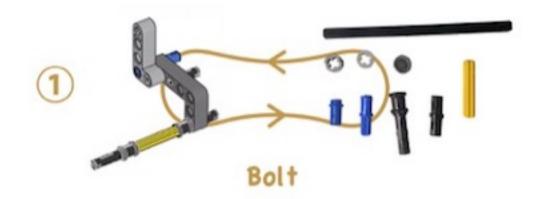
This is suitable for older children and is the final step in the transition to biking

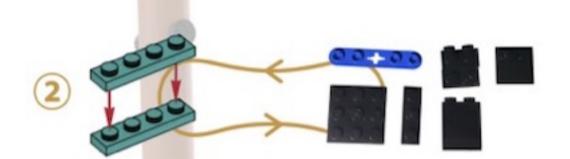


Develop

Structrue

The way lego parts are assembled





Mortise and tenon joint

Apart

I chose three types of bikes on the market and took them apart to study their structure and components



I took the bike apart and reassembled it from two directions, from parts to smaller structures and from parts to create something new

Assemble way





Summary of children's daily life questionnaire in

Children in 3-6 year old	I n.m.	8:30 a.m.	9-10 e.m.	10-12 a.m.	1 p.m.	2:30 p.m.	2:30-4:00 p.m.	4:30 p.m.	About 4:5 p.m.	About 5-6 p.m.	7-8 p.m.	About 9-10 p.m.
Pusnighton children's dially routine to week	Get up	Arrive Huanghian kindergorten	Do exercises and play games on the playground	Toke English, Ovinesa, simple meth, set, music dosses and so on	Take a nap- with your classmates in the docuroom	Get up and have some fruit stecks	Hore PE date, play games, play the side and so on	Grandina and grandips or more and ded pick there up and back home	Ride briest and scenters or play sports in the utilispe's senior content, booketball courts and ofleys	Wipit for parents back home and sot dinner steally cook by grandporents]	Watch to do howeverk and so on	Go to bed

Their daily routine is simple and boring, as Huangbian village has

NO amusement facilities for children

Lego has a product toys



that uses one set of parts to make two

Tricycle

Level

Scooter

Four-wheeled

The age of 6

Balance bike

The age of 3

The age of 4

The age of 5

trolley



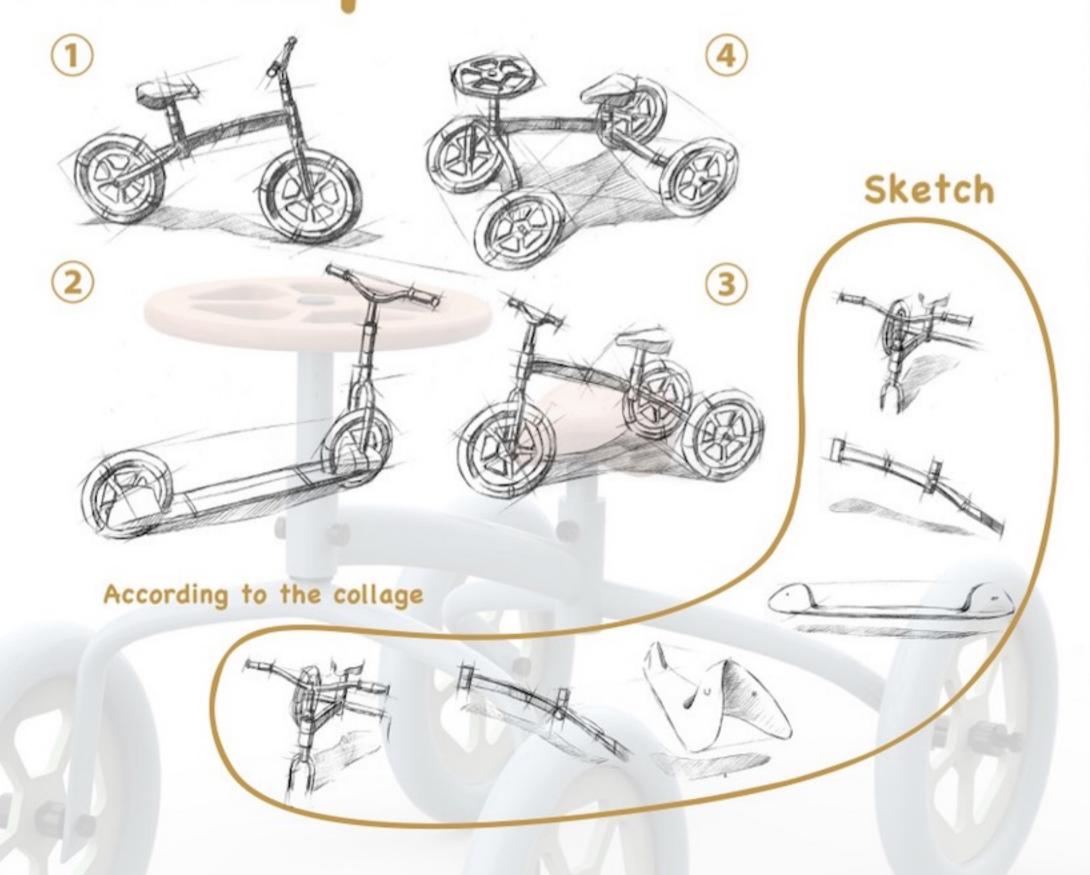


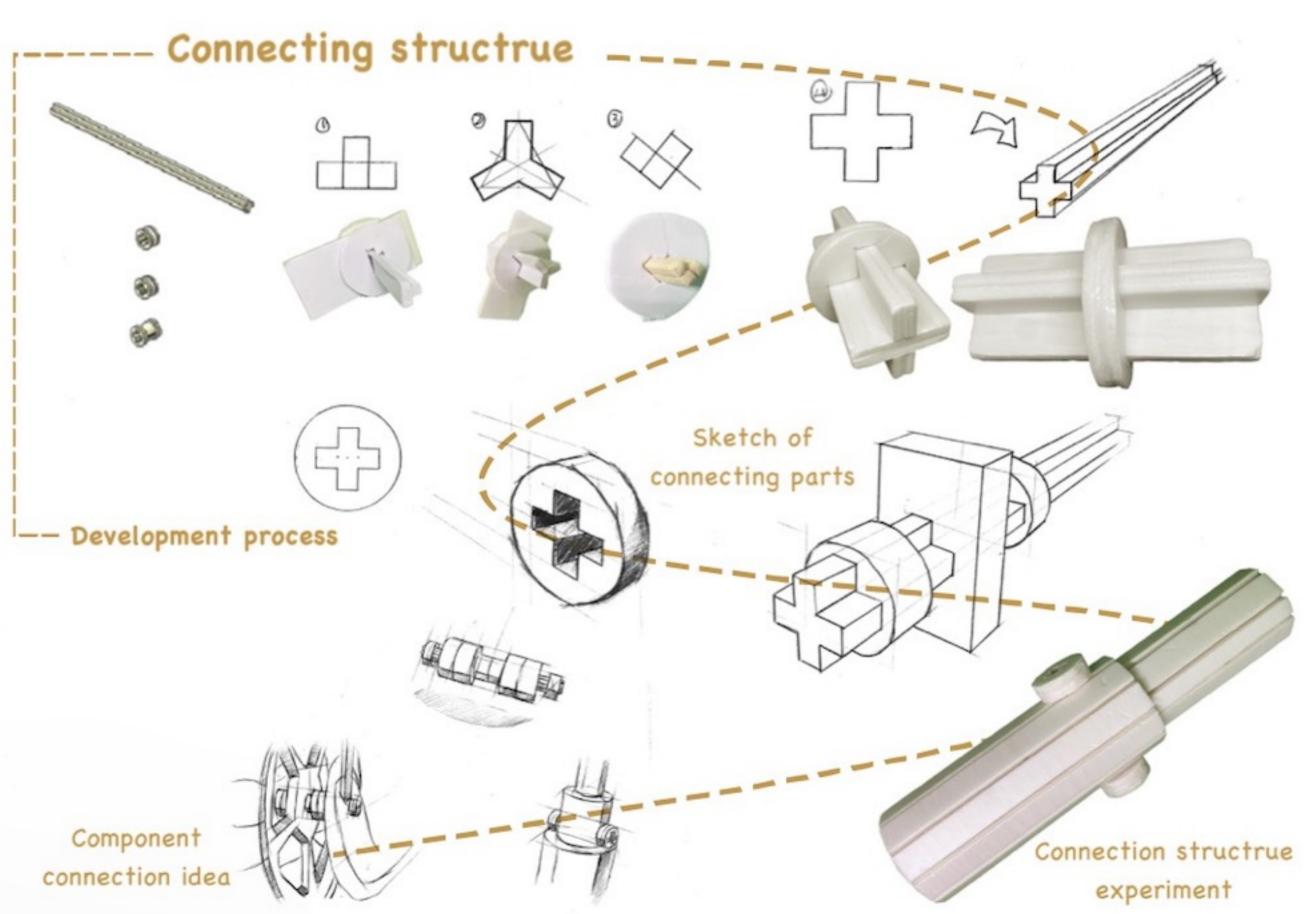




Huangbian Village												
Children in 3-6 year old	I n.m.	\$:30 a.m.	9-10 a.m.	10-12 n.m.	1 p.m.	2:30 p.m.	2:30-4:00 p.m.	4:30 p.m.	Albeut 45 p.m.	About 5-6 p.m.	7-8 p.m.	About 9-10 p.m.
				Take English,			No. of	Grandna and	Rida brikes and scooters or play sports	Work for		

Develop





Model

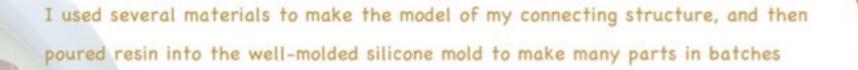
Large part model

I took the parts I had removed

and turned them over using
silicone and modified the shape
according to my design

Connecrting structrue

Cross shaft form test



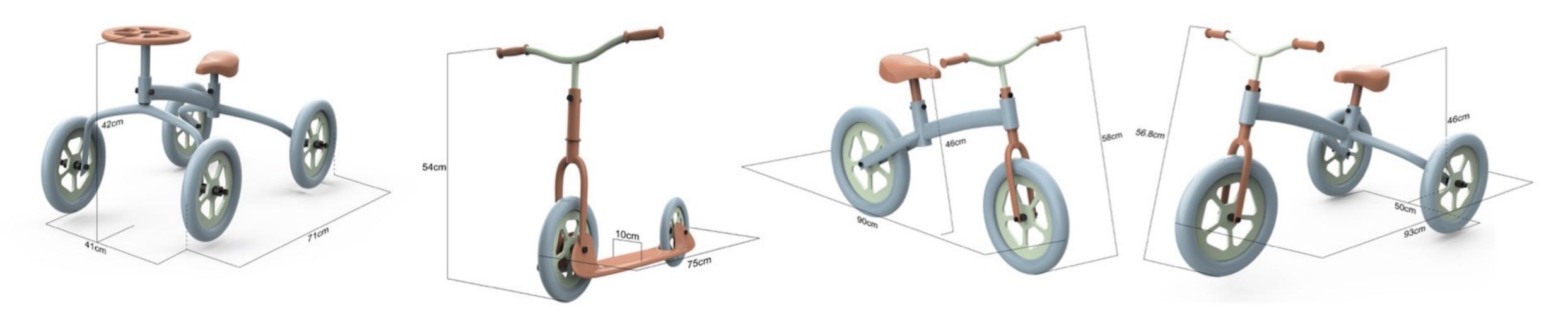


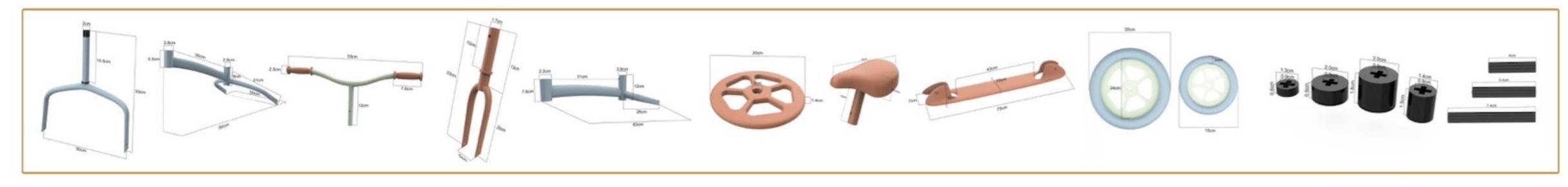
The silicone mold experiment



Successful mold

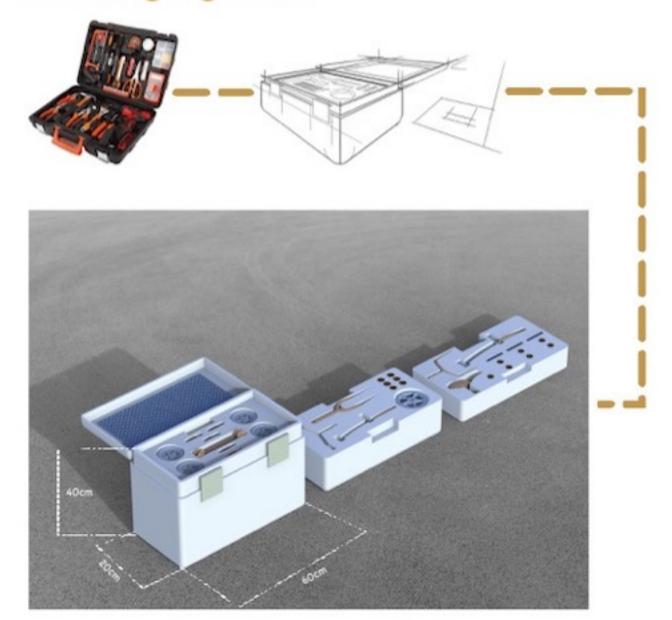
Modeling & Size



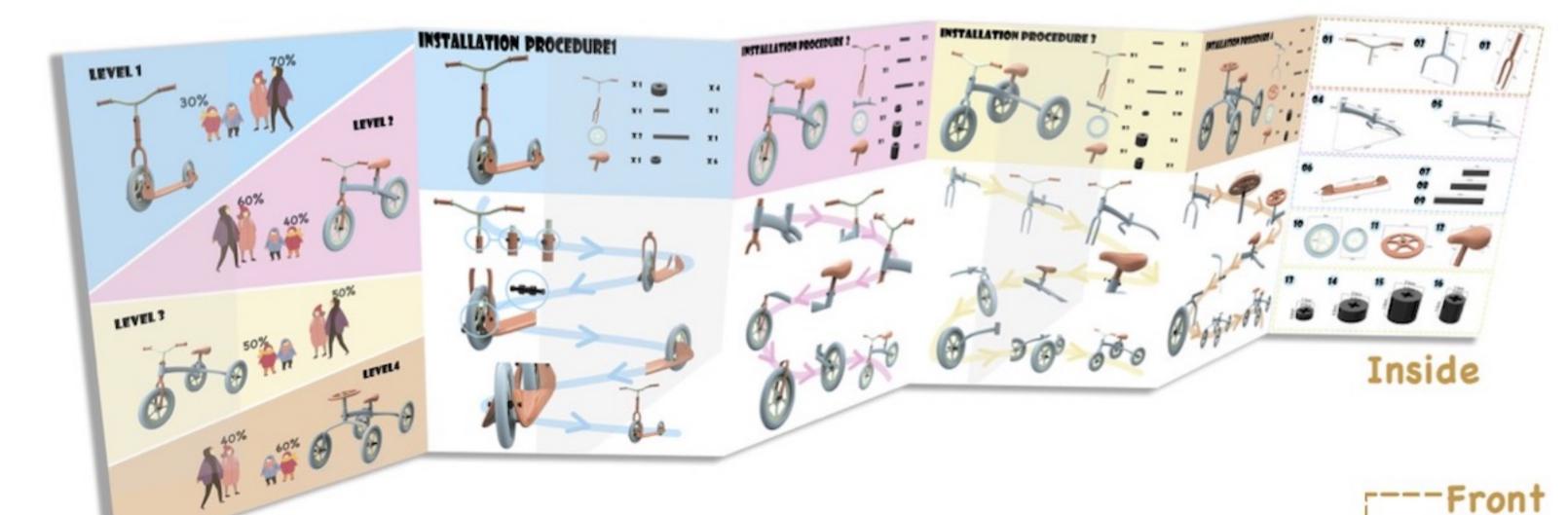


Product data

Packaging box



The box consists of three layers, each of which contains numbered parts



Instructions

I used the way of folding to make my manual, the form of folding is relatively clear and easy to read

