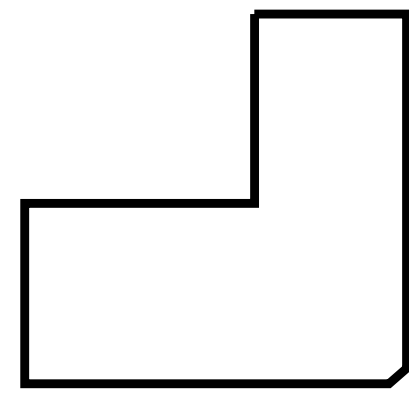


Portfolio

SuperMatter
YIYING GU

Eco Card House

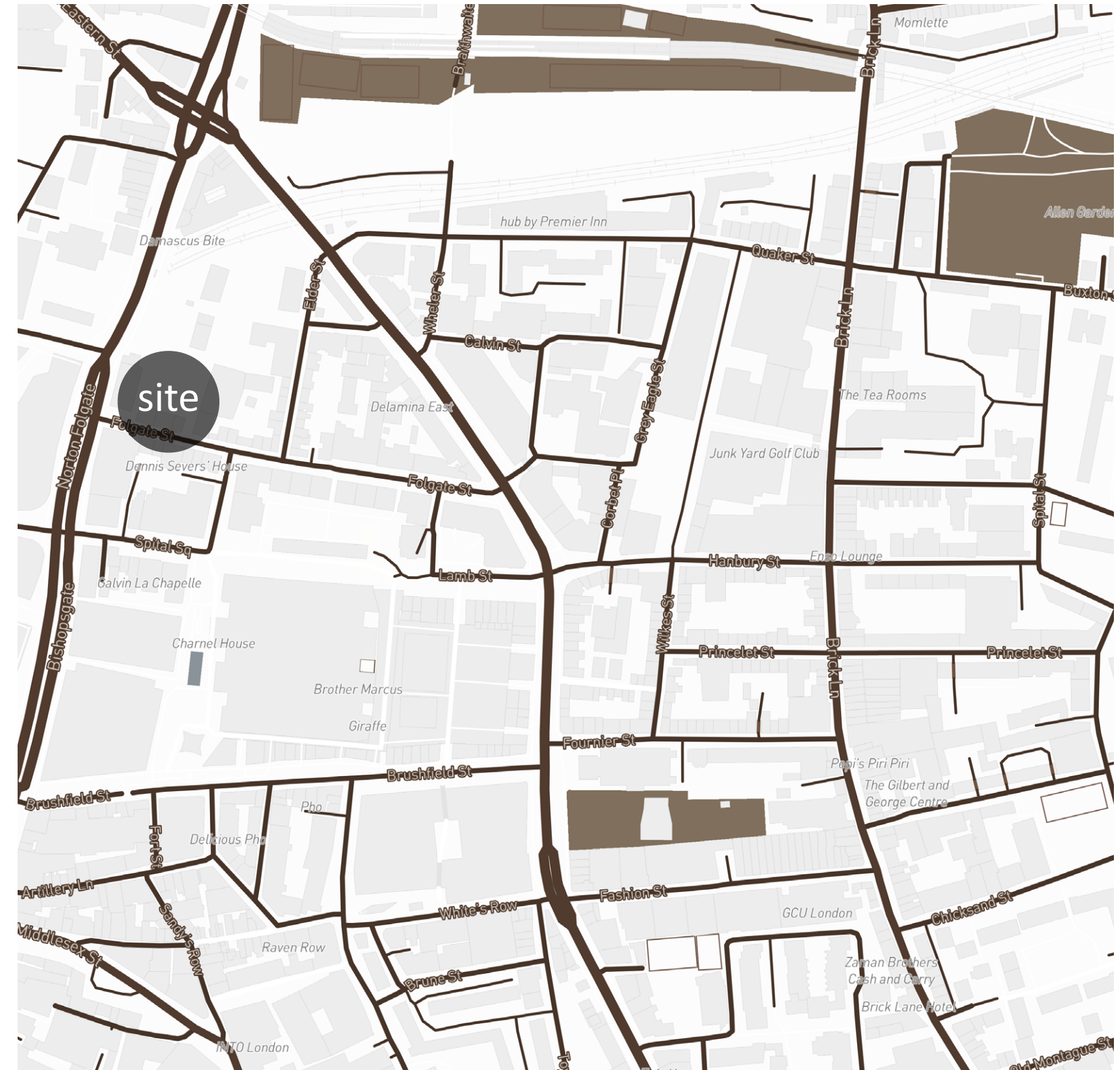




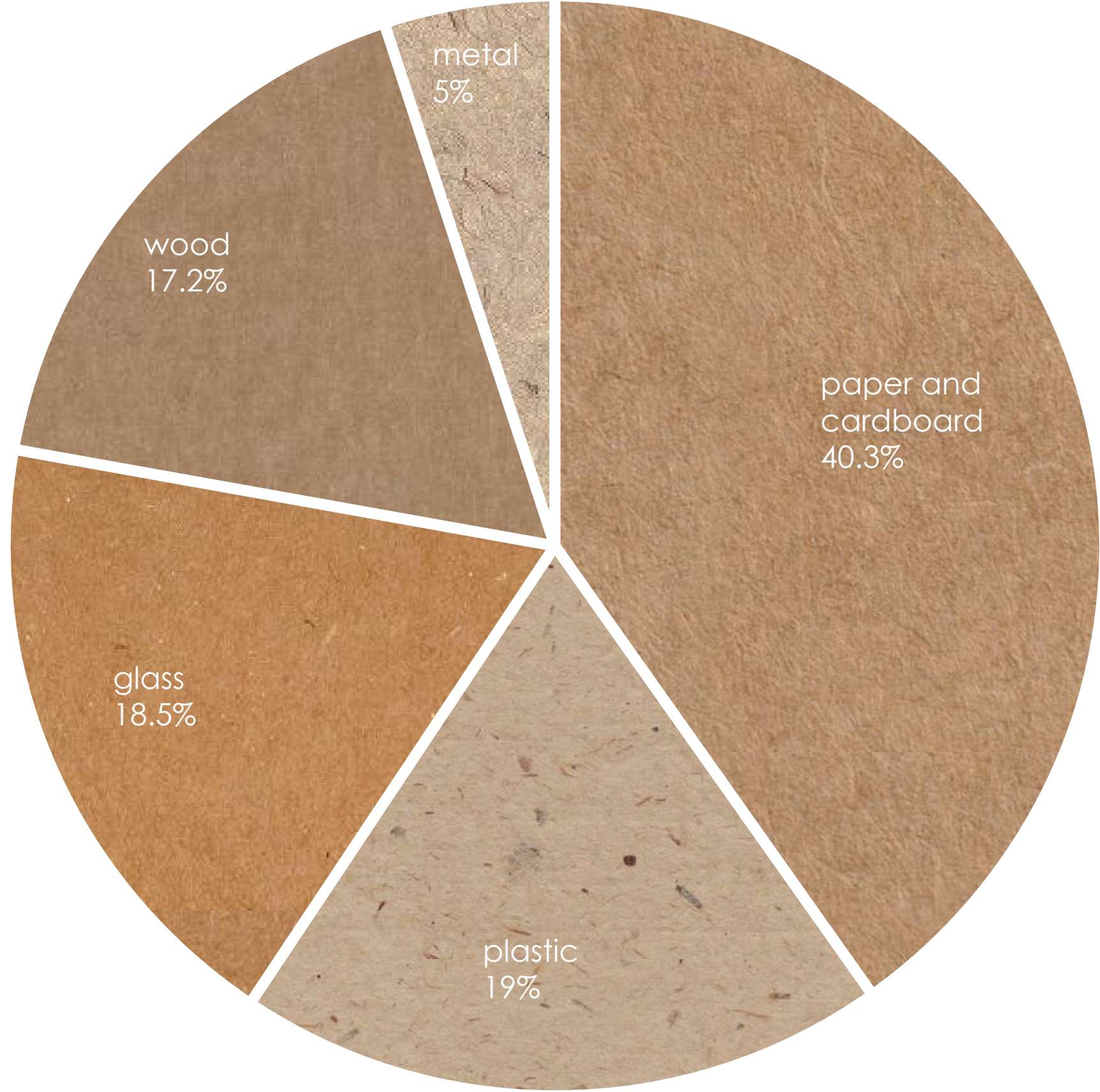
16 blossom street



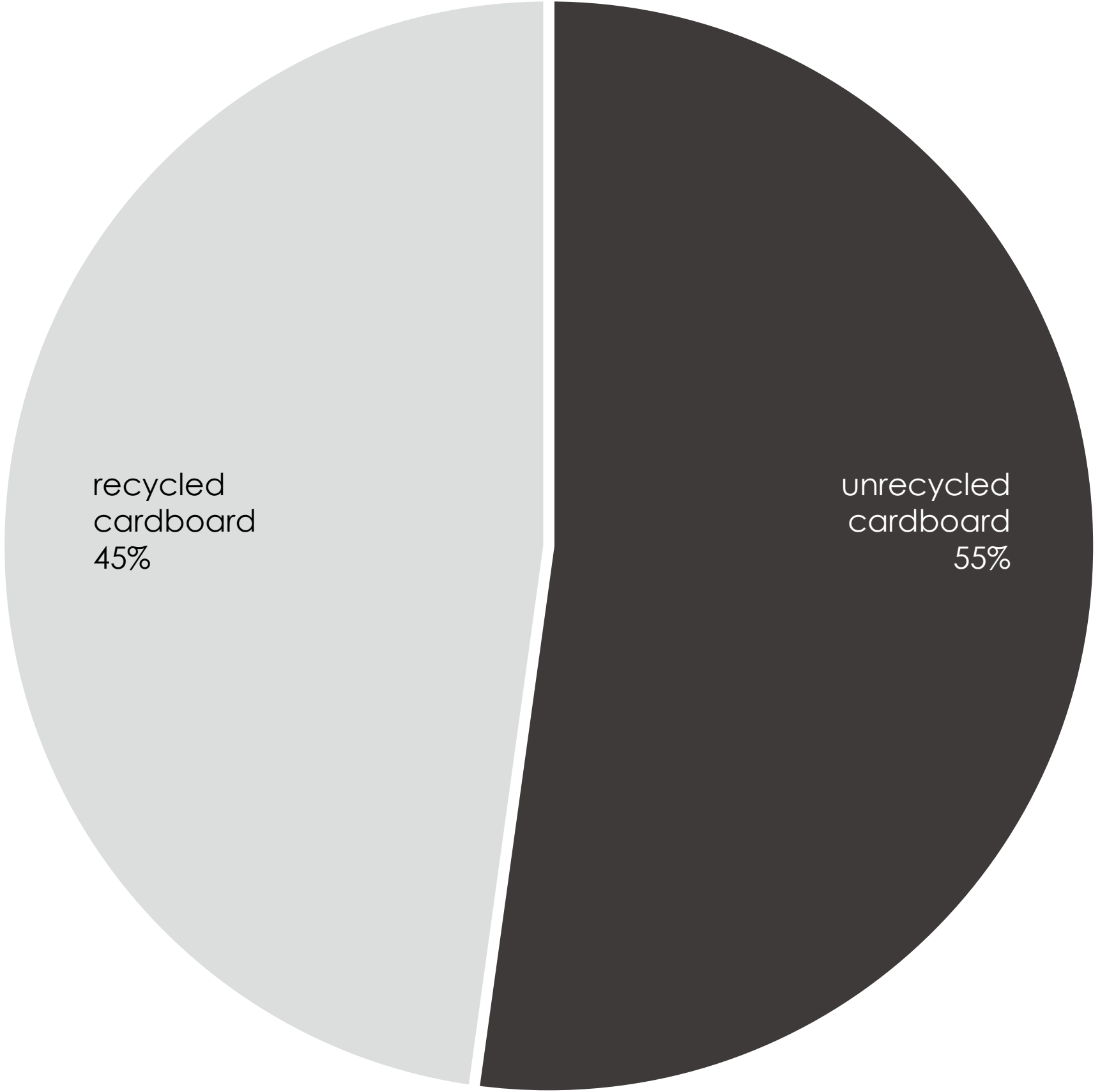




Statistic



Cardboard is one of the most popular packaging materials on Earth, and therefore makes up a large portion of waste.



The unrecycled cardboard almost ends up getting thrown into landfills and nature to rot.

- **5,389,000** tons of paper and cardboard packaging waste is produced in the UK every year. About 3 million tonnes of cardboard is composted each year in the UK.
- Around **7 million** tonnes of cardboard end up in landfill every year.
- It Promotes Landfills. It **Negatively** Affects Wildlife. It Produces Methane.



Hello, thank you for accepting our interview. First, do you know that waste cardboard needs to be recycled?

Yes, I know. We have always had the habit of recycling cardboard at home.



Do you know why recycling waste cardboard is so important?

Well, I guess it's for environmental protection, to reduce waste and conserve forest resources.



That's correct. Do you think waste cardboard has other uses besides being recycled into paper?

Uh, I haven't really thought about it. I thought it was mainly processed into recycled paper.



Actually, waste cardboard can be used to make eco-friendly building materials or even as raw material for art creations. What do you think of these uses?

Wow, that sounds interesting. I never thought they could have so many uses.



Yes, many people like you know that waste cardboard needs to be recycled but are unaware of its potential. Do you think knowing this information would change people's views and handling of waste cardboard?

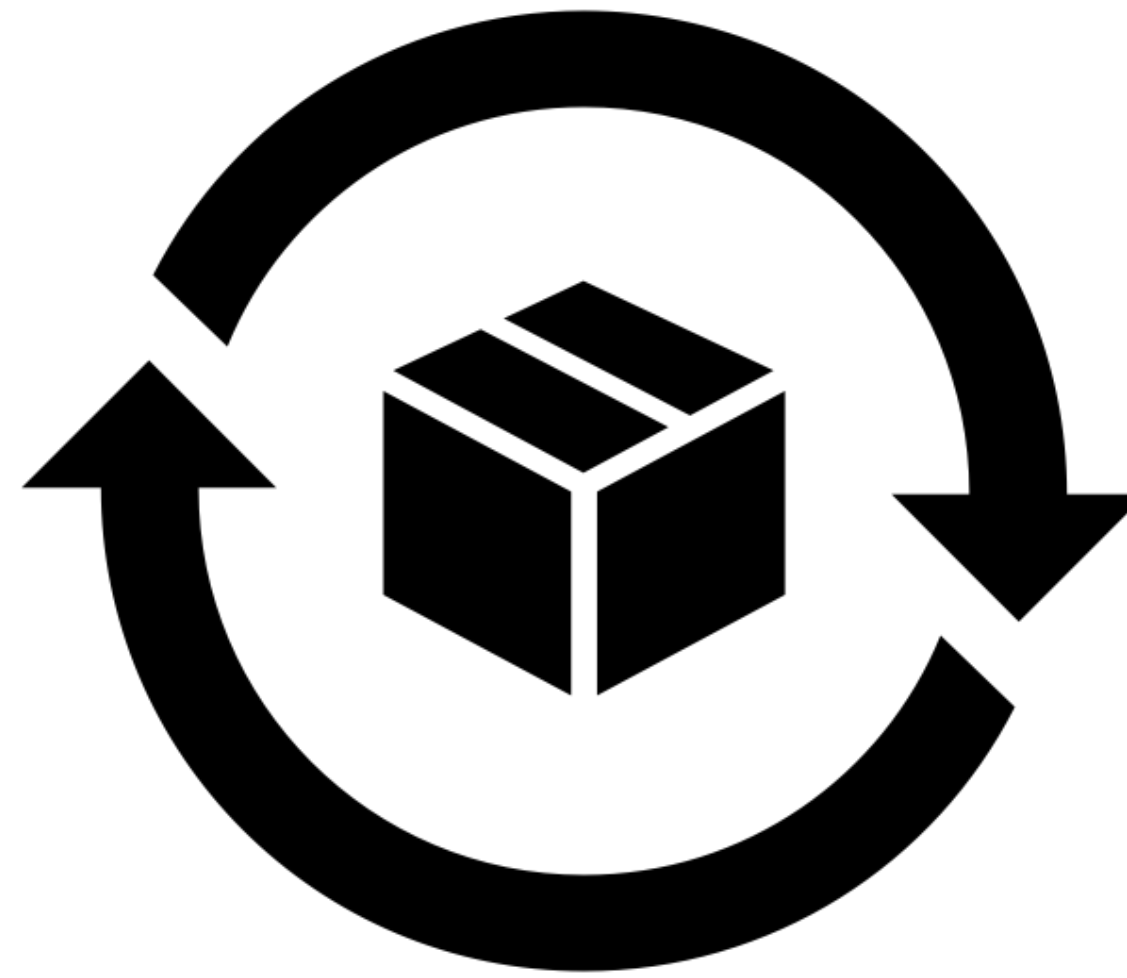
I think it would. If people knew that waste cardboard not only could be recycled but also has so many creative uses, they would definitely be more active in recycling and utilizing it.



Thank you for your sharing! Have a great day.

Interview...

People don't see the diversity and role of waste cardboard package.



This project is a retail store dedicated to transforming recycled waste cardboard into exquisite items and providing experiential workshops to change people's perception of waste cardboard. People will celebrate and participate in shopping, making, looking and learning. This innovative shopping approach can inspire environmental awareness and action among individuals while simultaneously reducing pressure on the environment, thus achieving sustainable consumption.



chairigami

I choose chairigami as my brand because this company dedicated to producing and selling furniture products made from cardboard. They concern the same idea with me about the eco-friendliness and sustainability of waste cardboard.

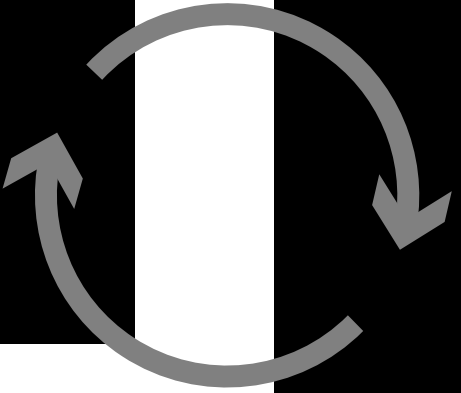


workshop

machinery

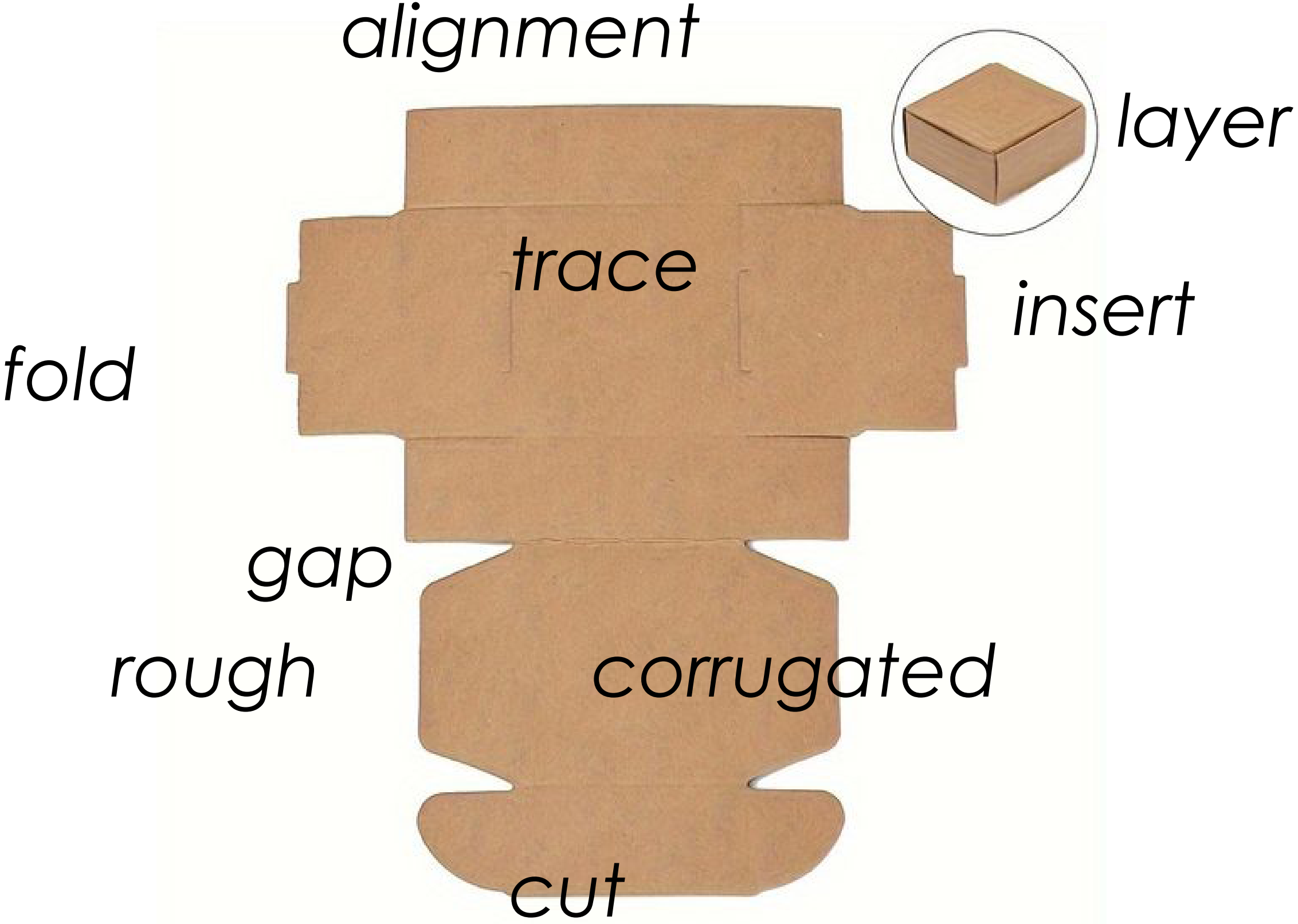
showroom

bring & take

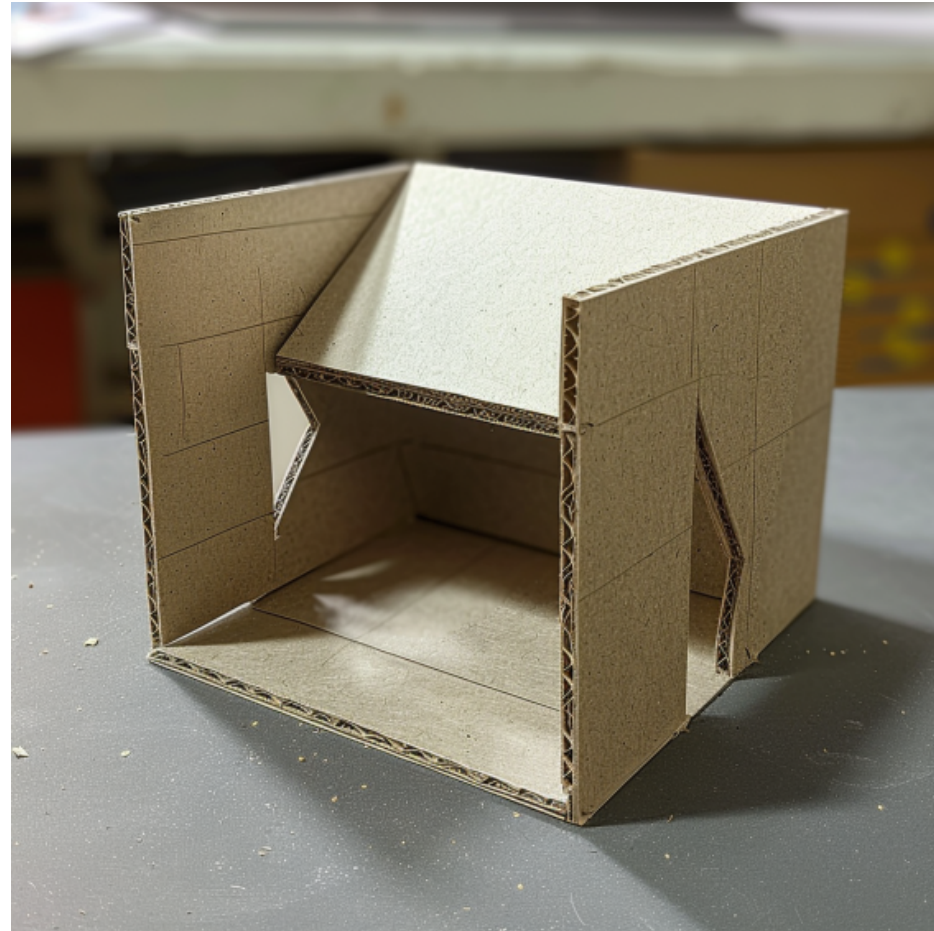
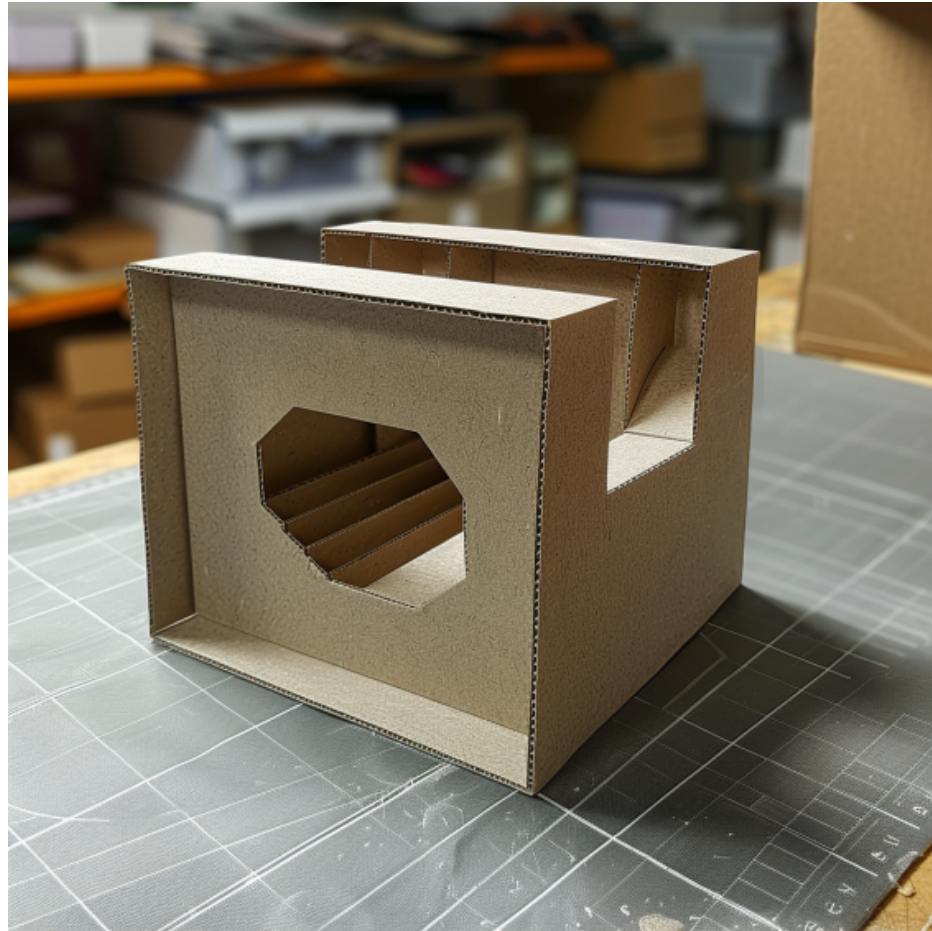
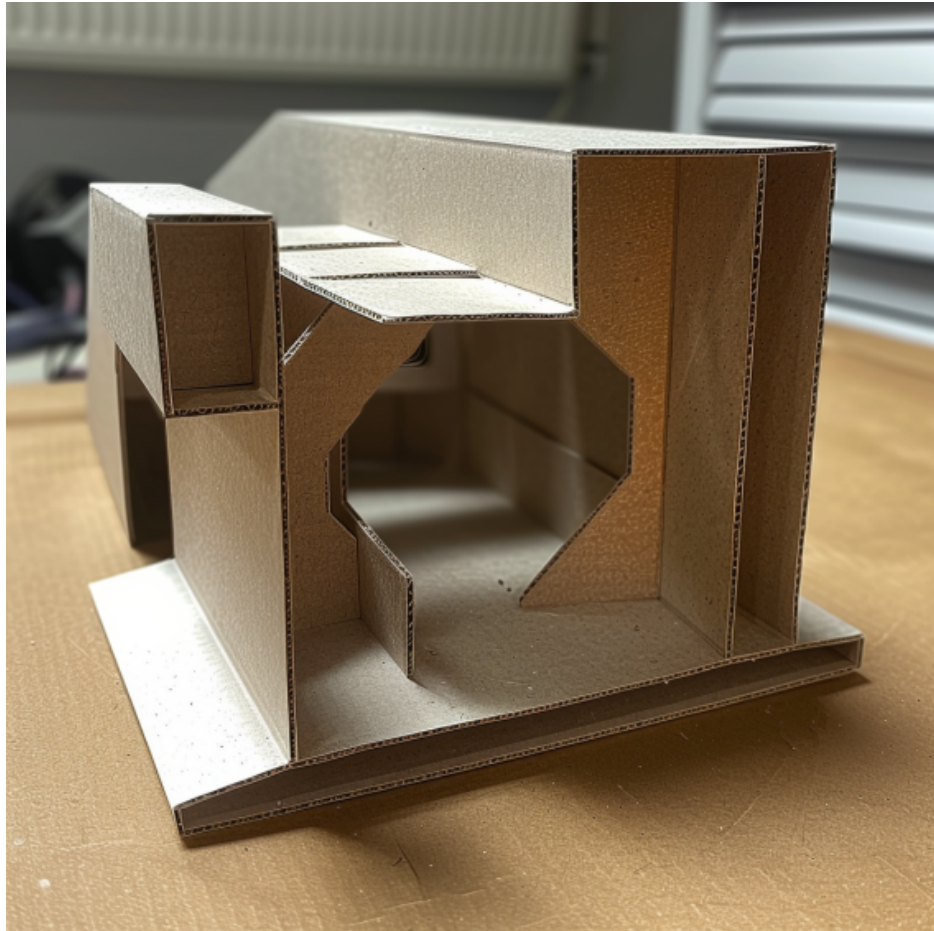


“How to make waste beautiful and useful?”

Obsevation Cardboard



Artificial Intelligence



prompt: best quality, real, detailed, cardboard, interior design, circulation

Artificial Intelligence

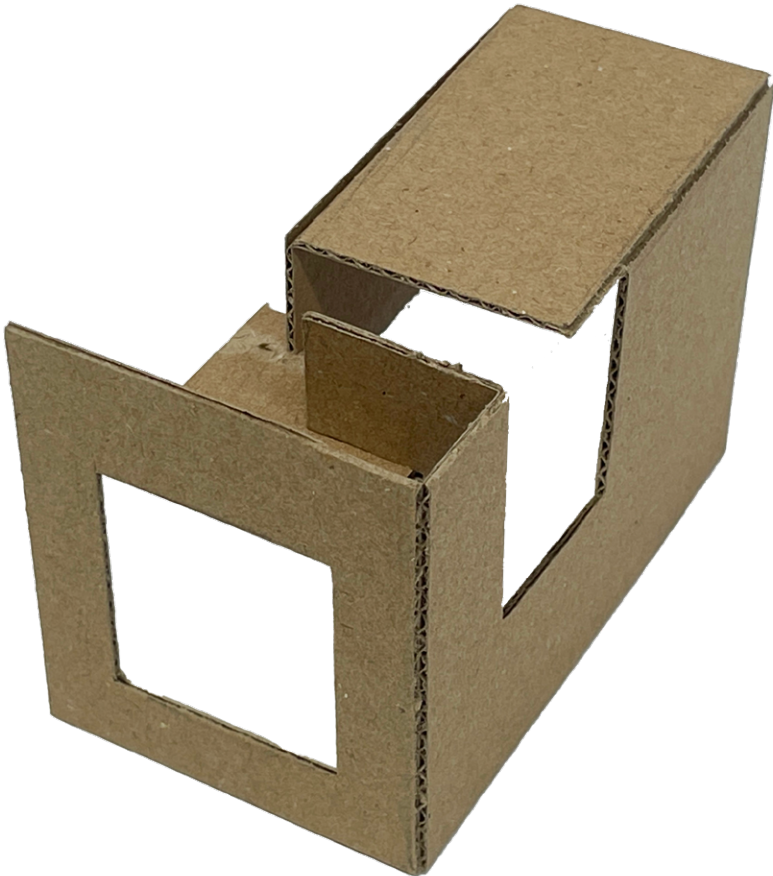
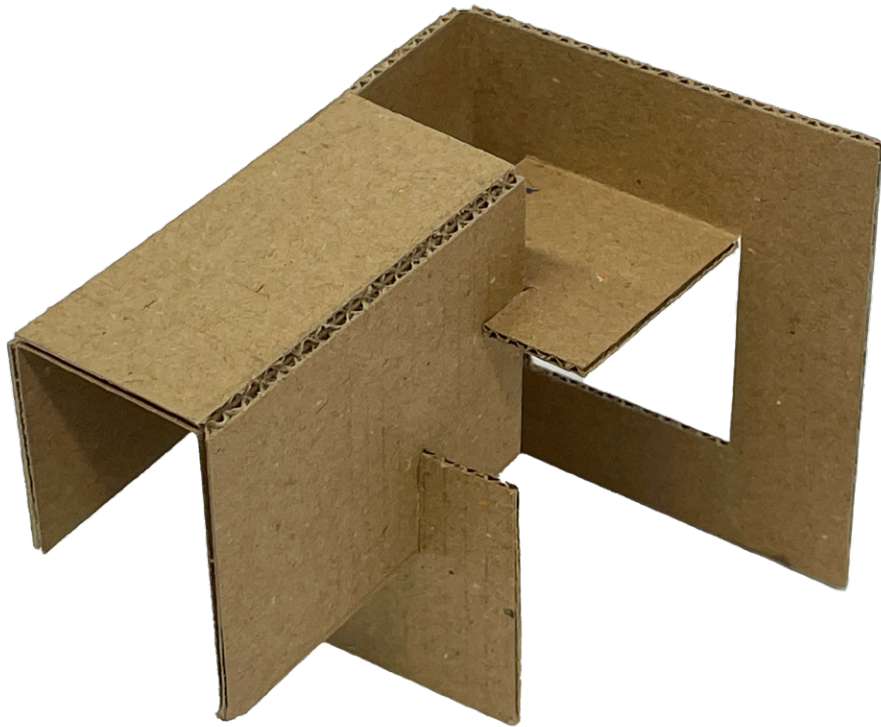


AI+HI

Human Intelligence

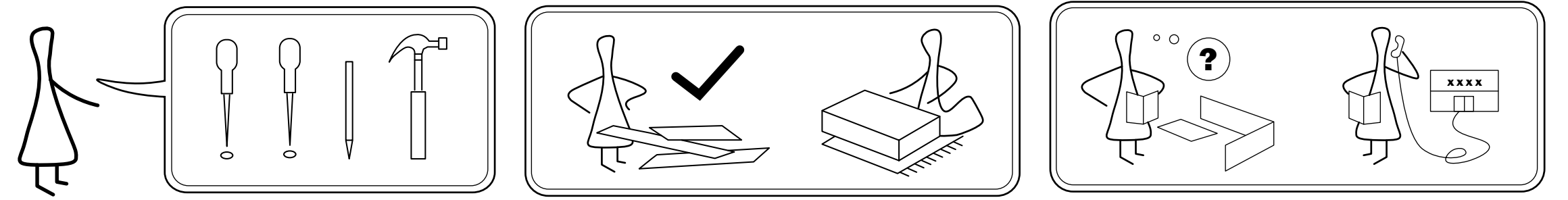


floor plan as base

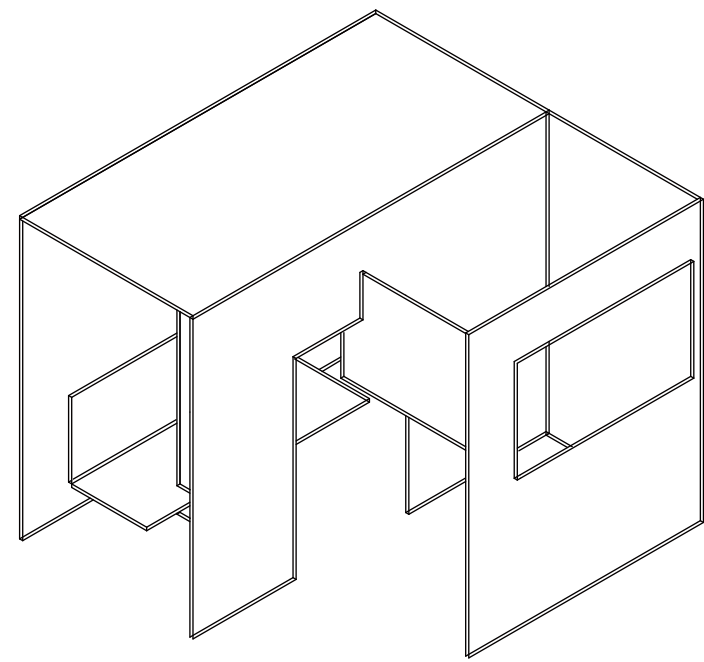


new prompt: insert, folding, hollow, structural

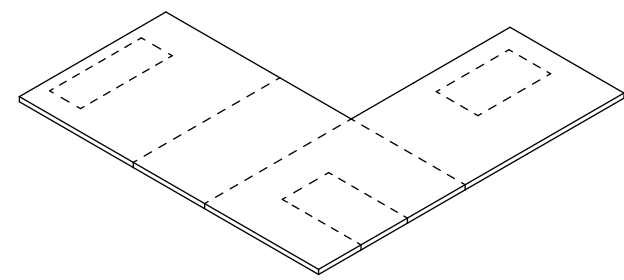
INSTRUCTION



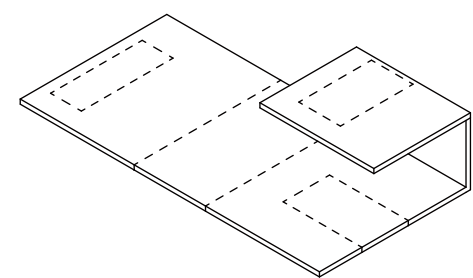
INTRO



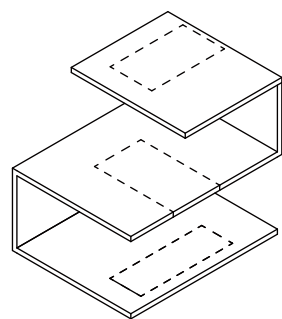
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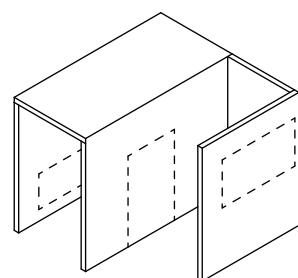
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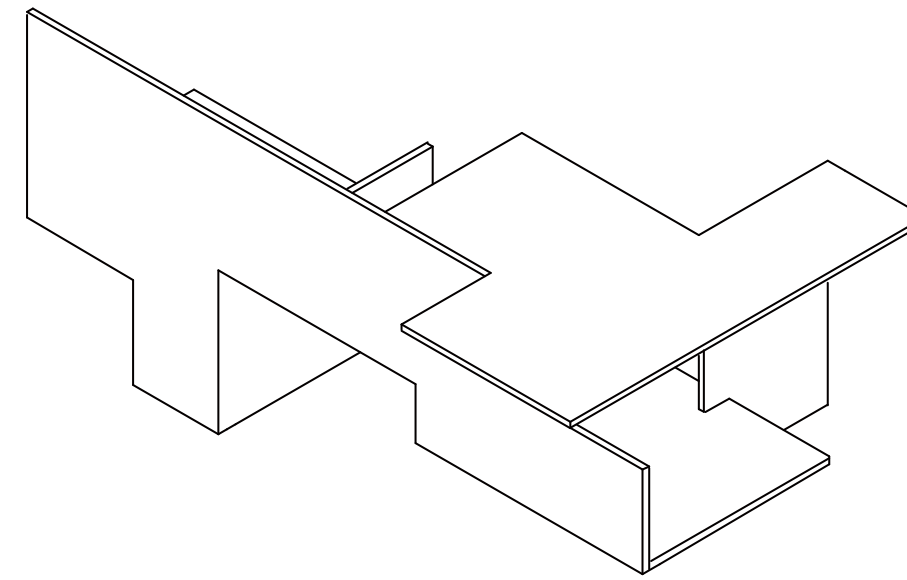
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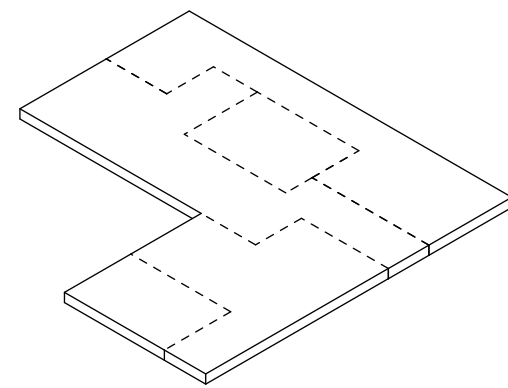
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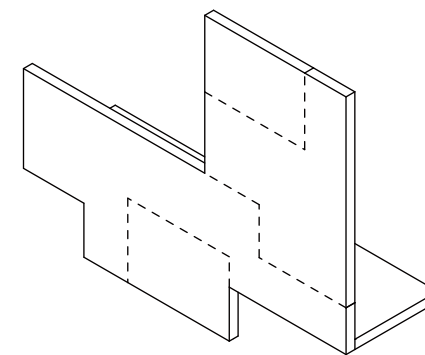
SRWS



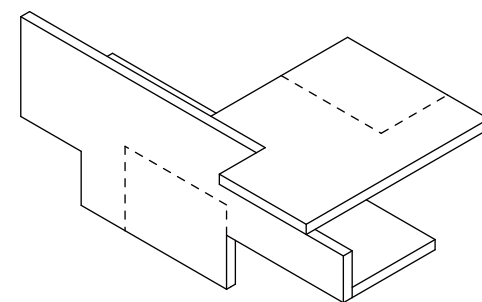
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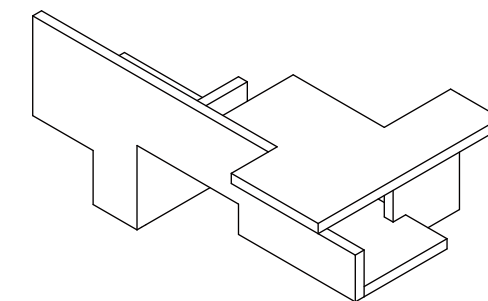
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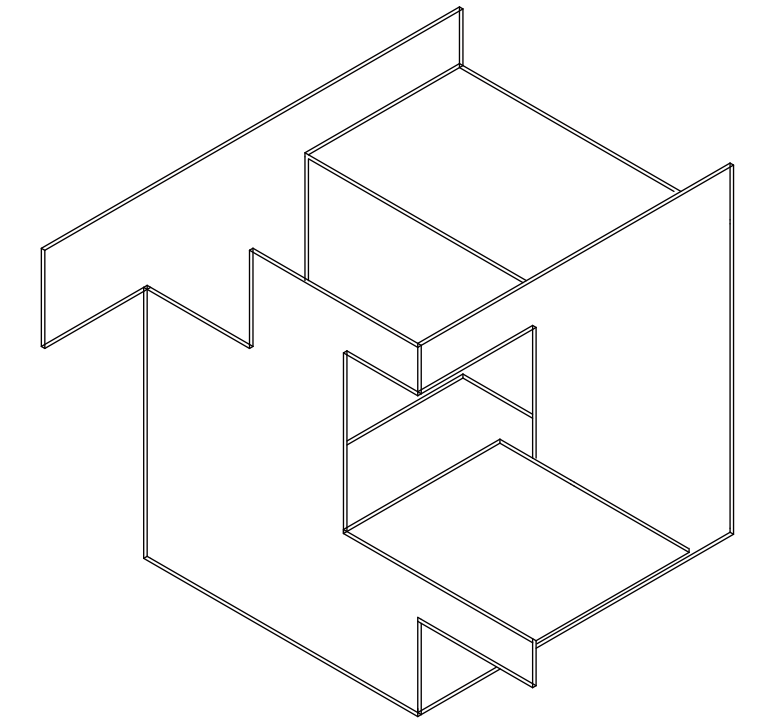
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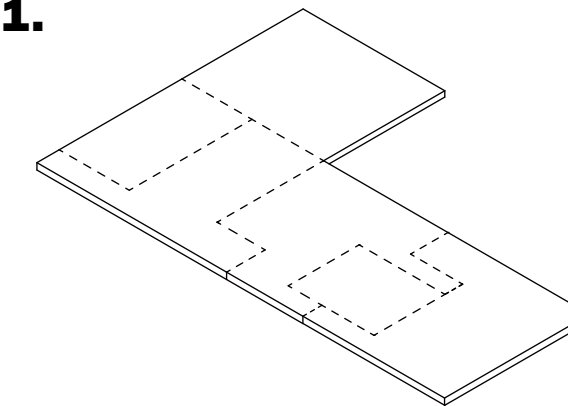
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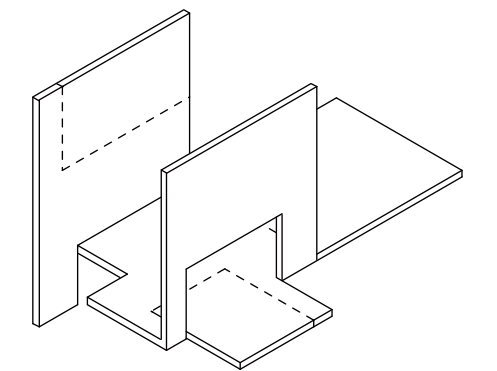
MACH



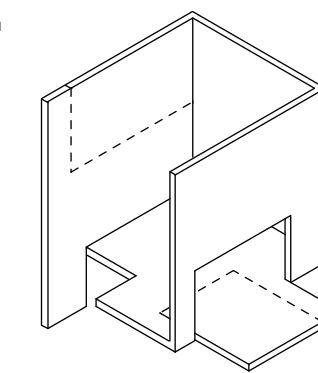
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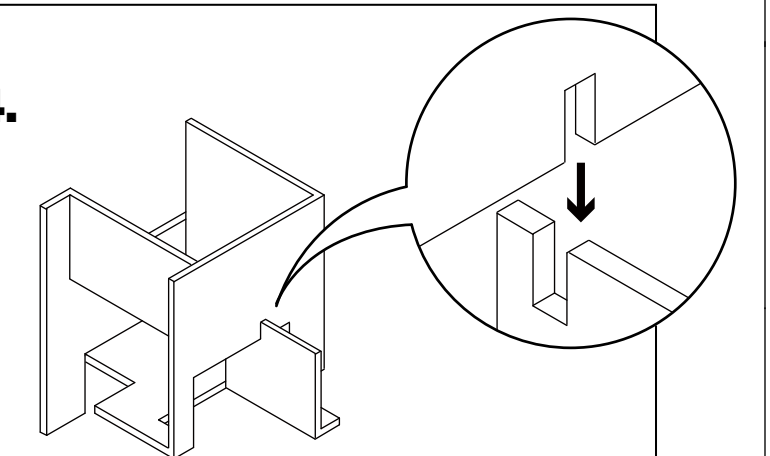
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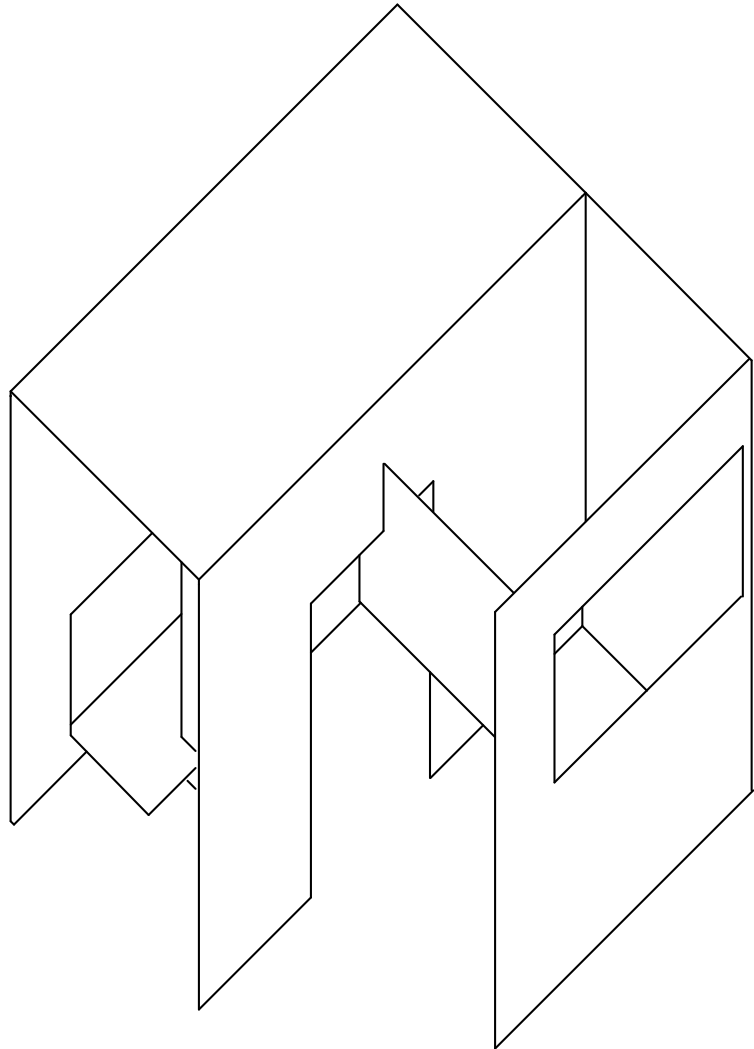
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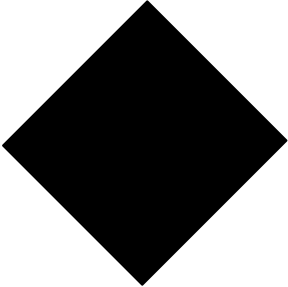
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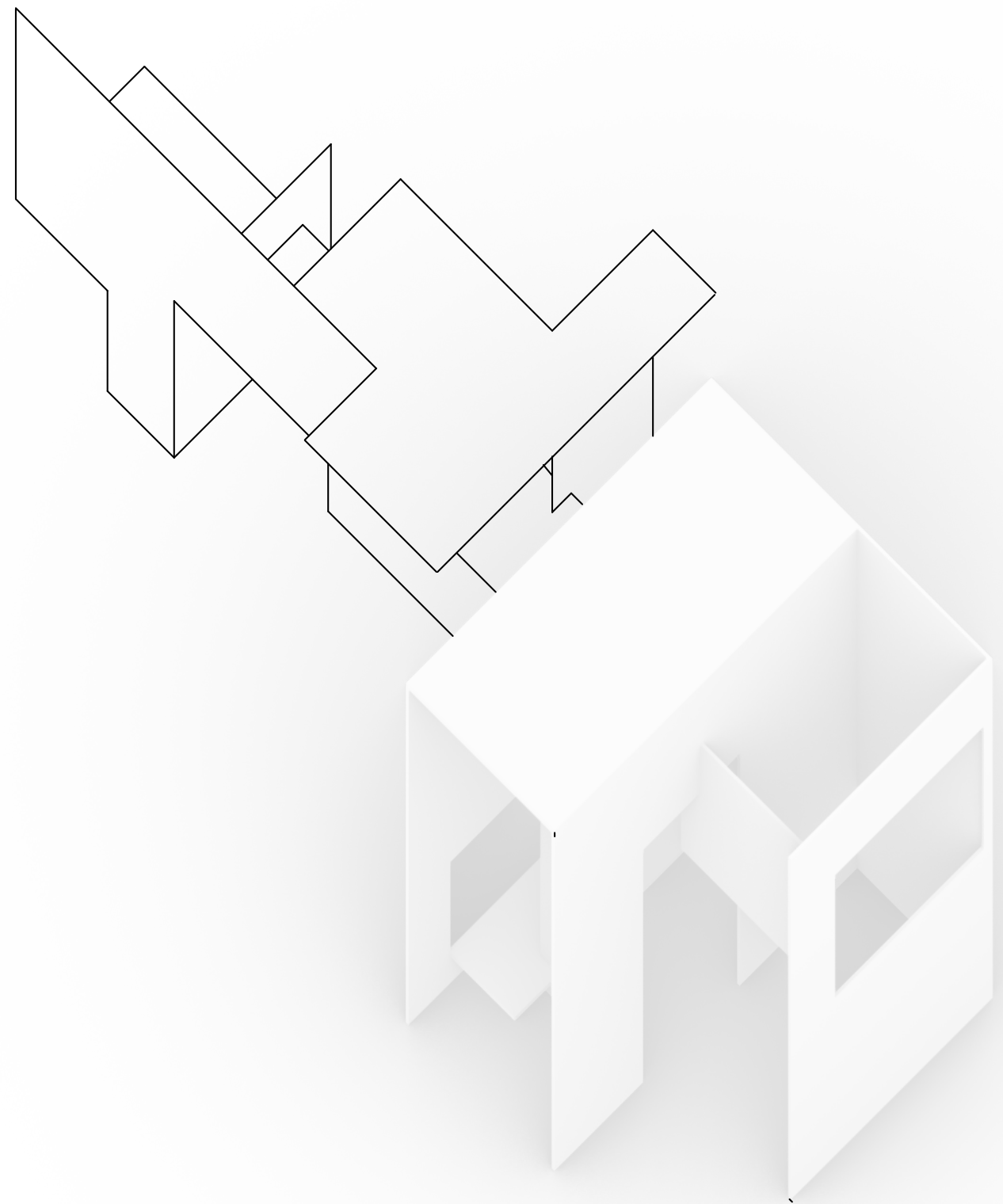
Design Principle



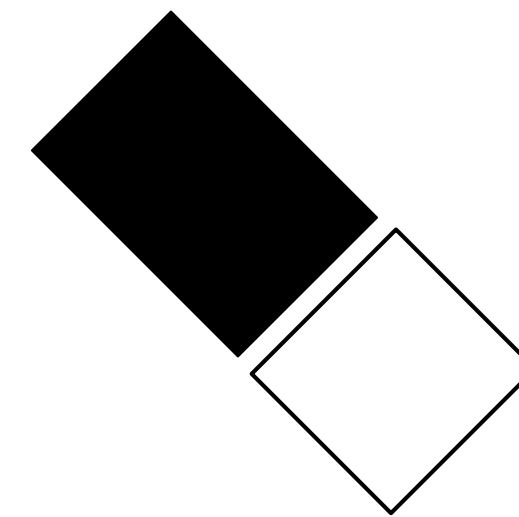
INTRO



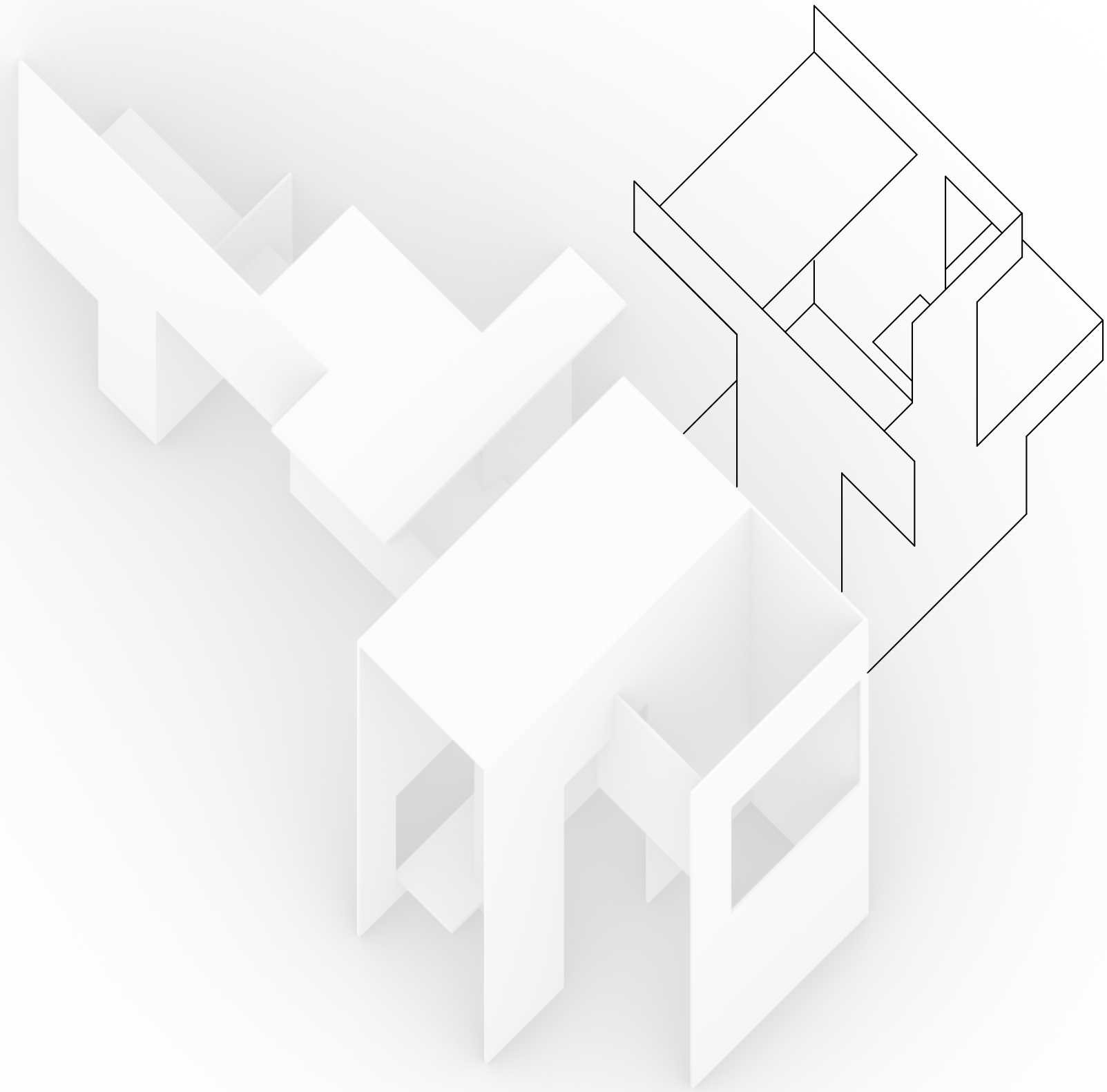
bring & take



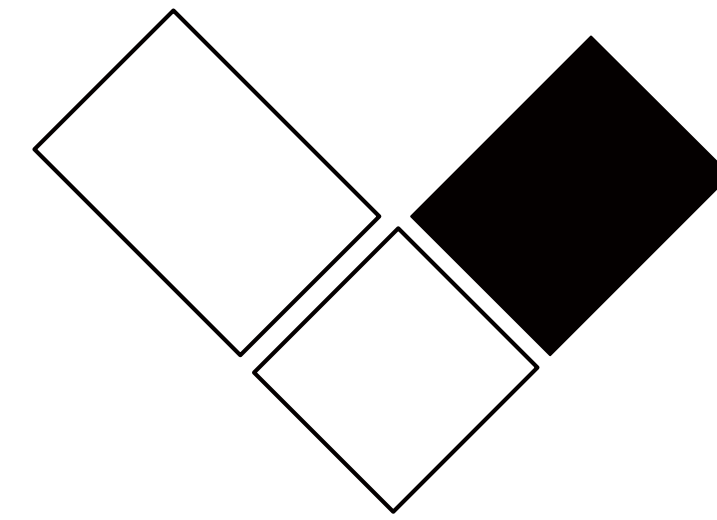
SRWS



showroom + workshop



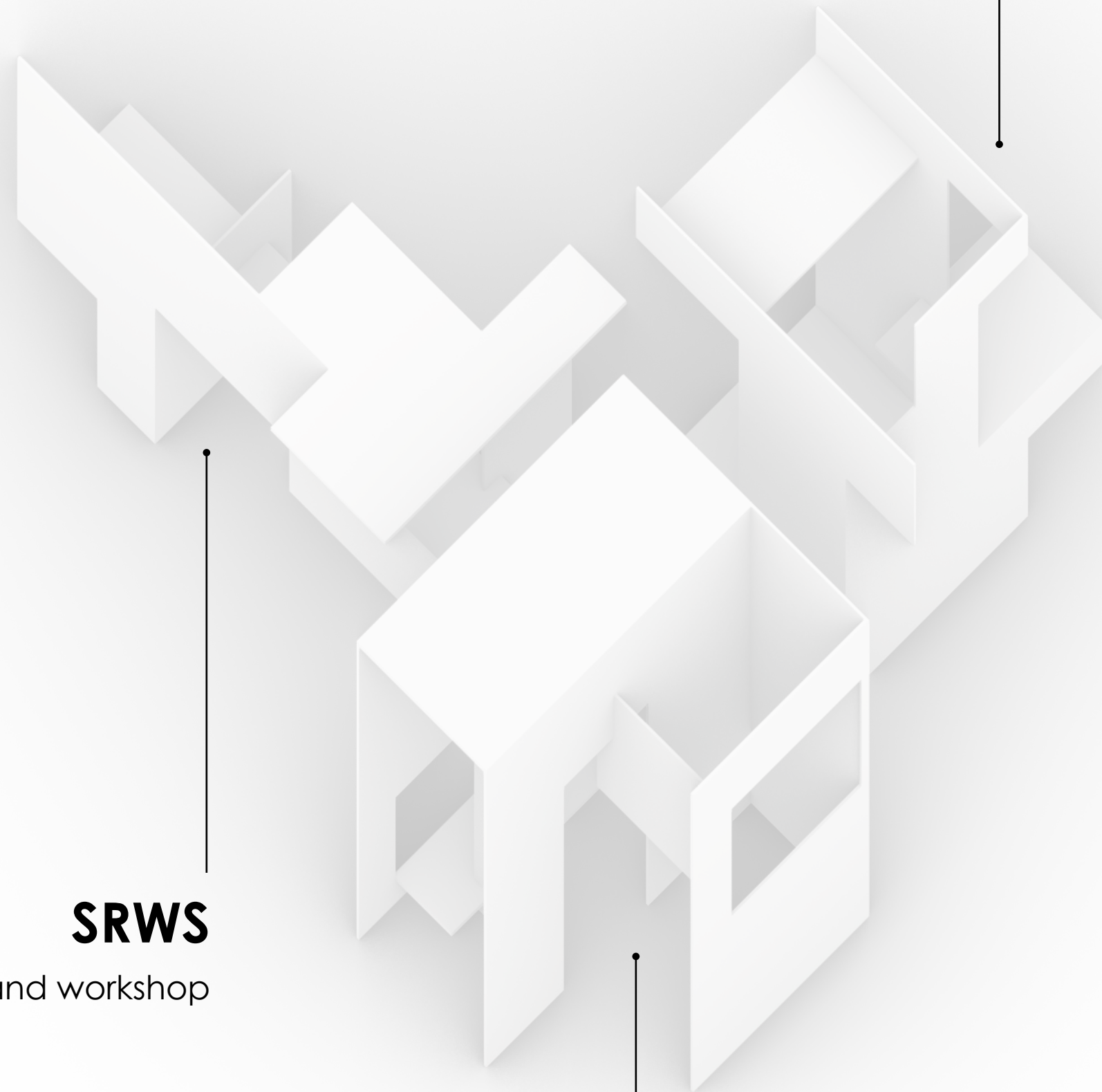
MACH



machining

machinery room (include pulping,
paper forming, and heat process)

MACH

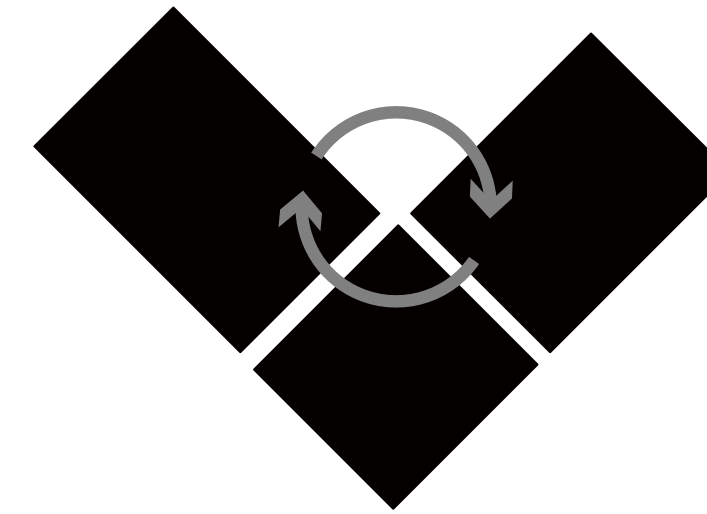


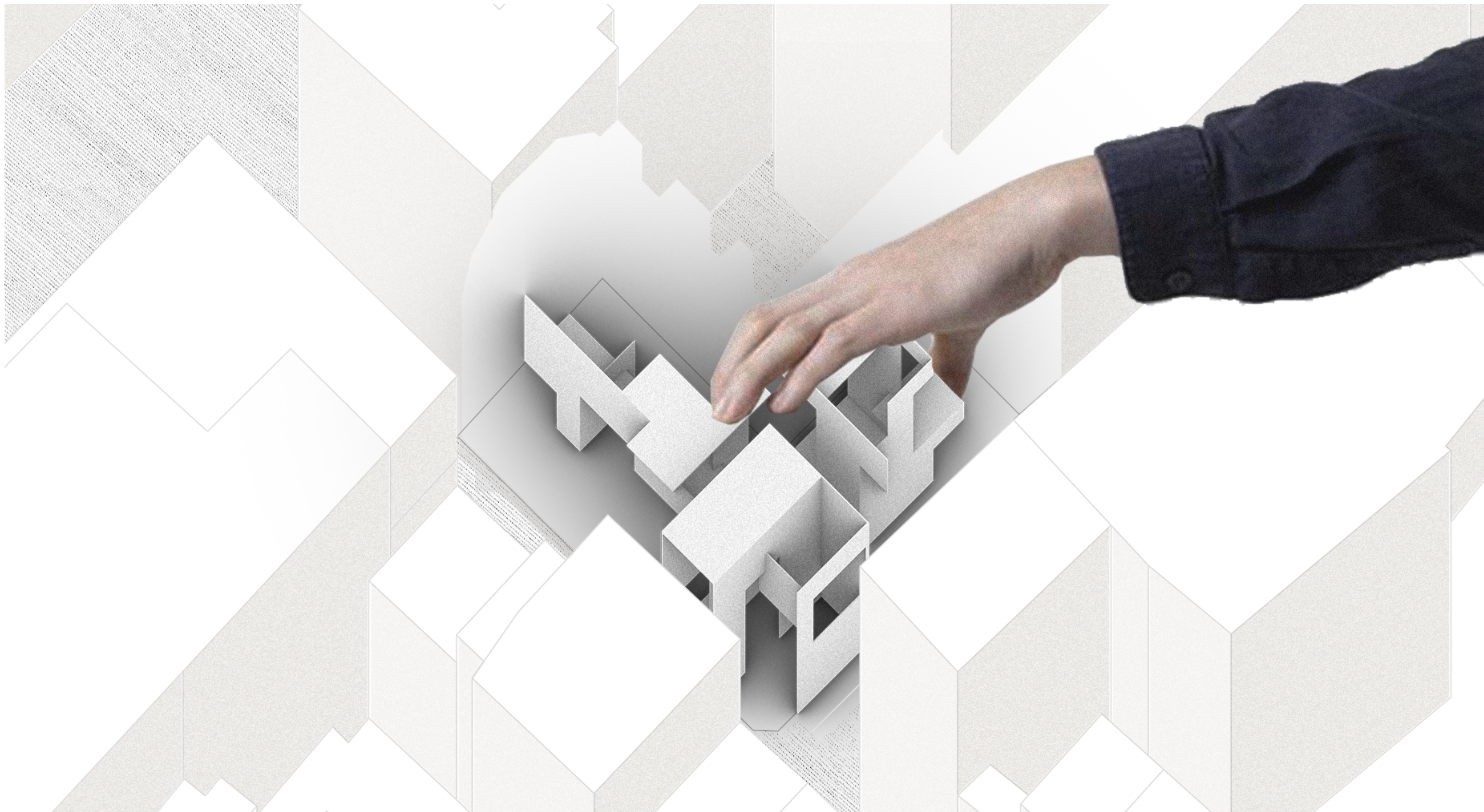
SRWS

showroom and workshop

INFO

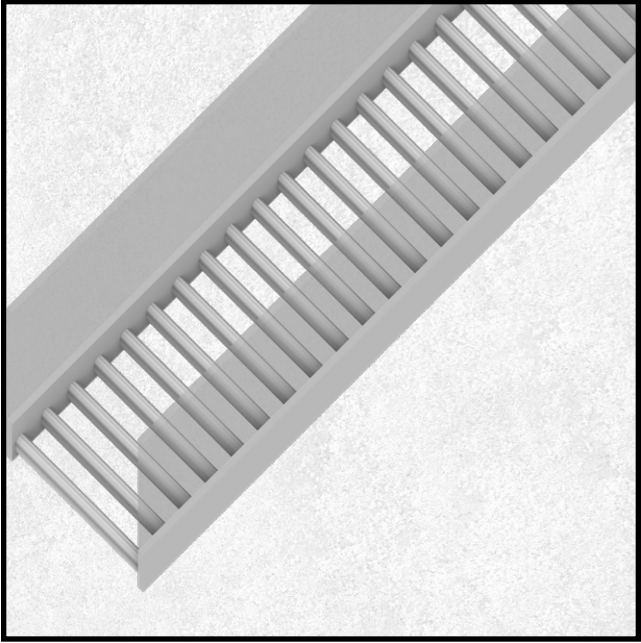
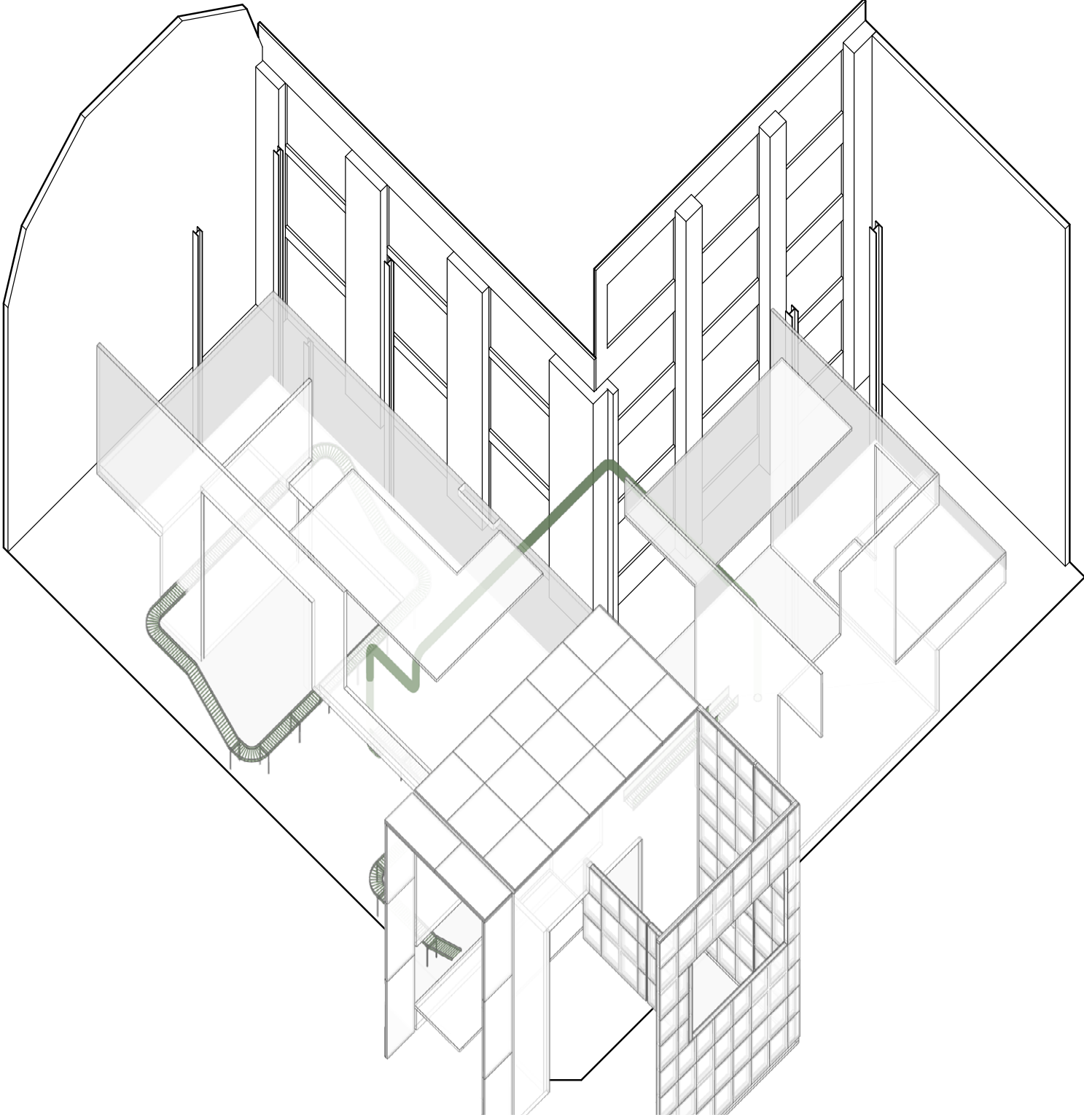
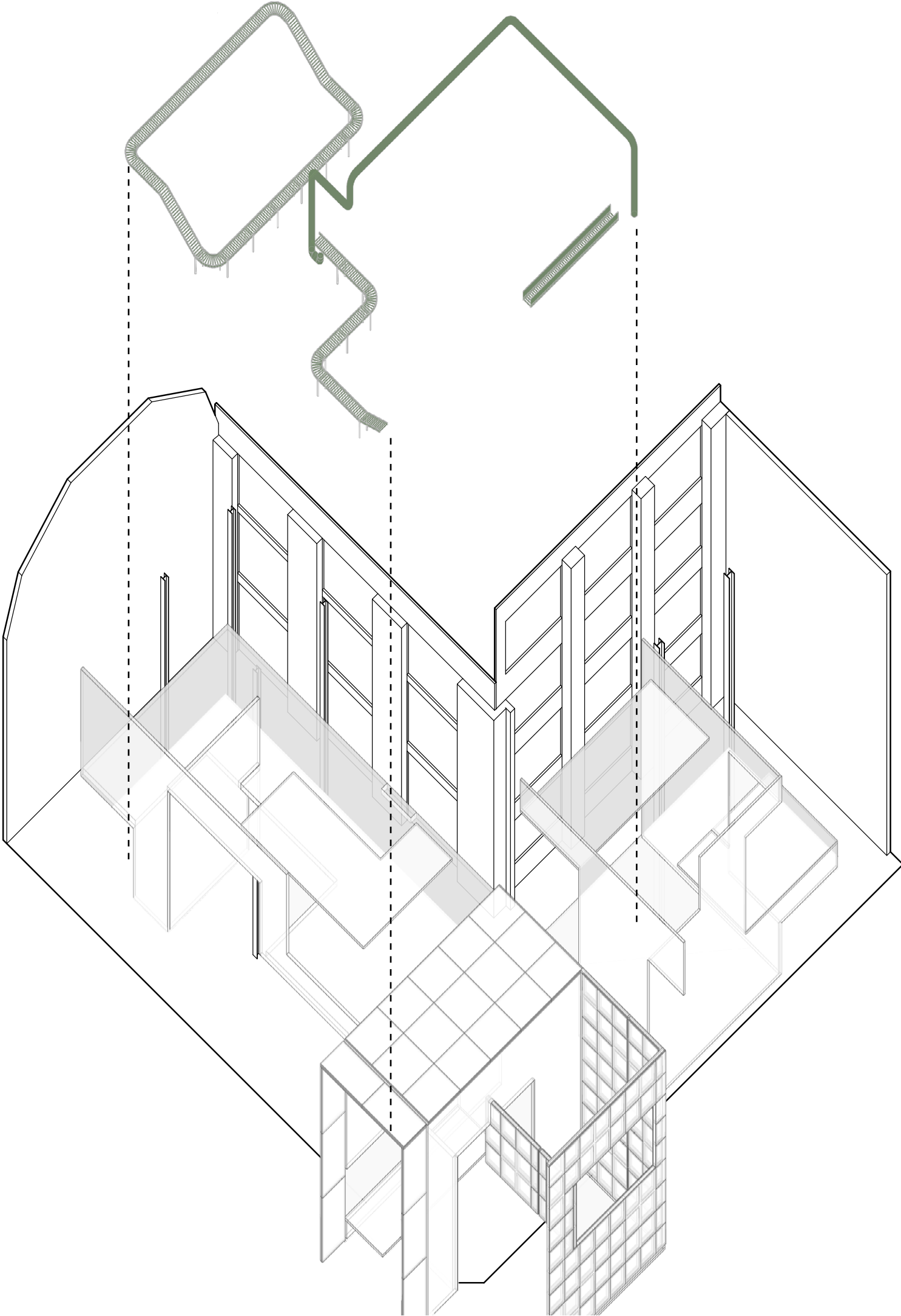
entrance (for people bring the cardboard
waste and grade these package)



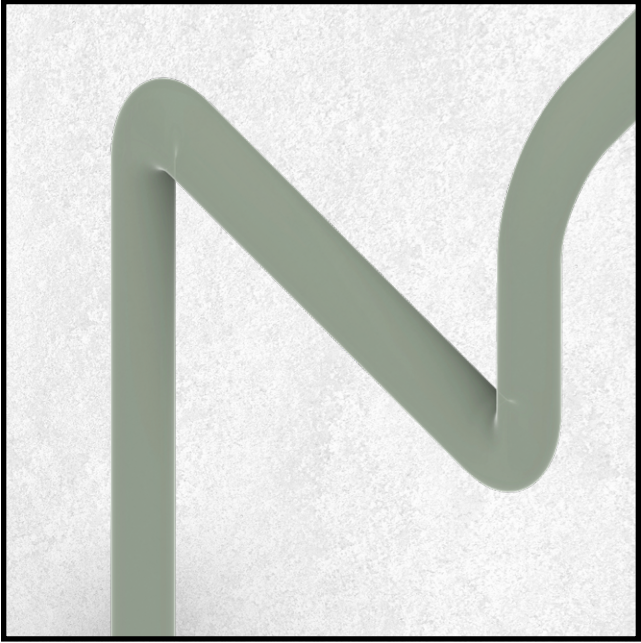




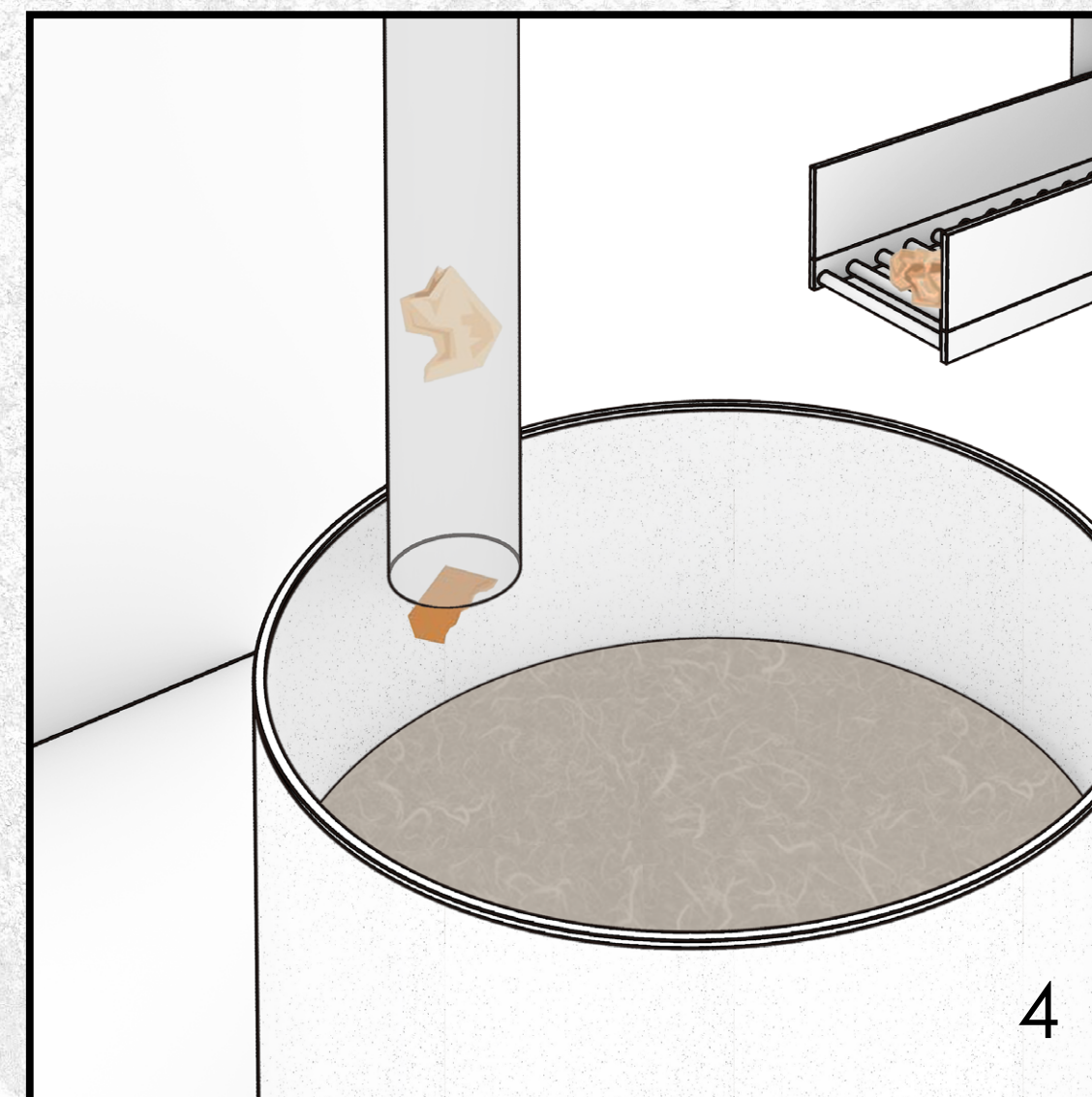
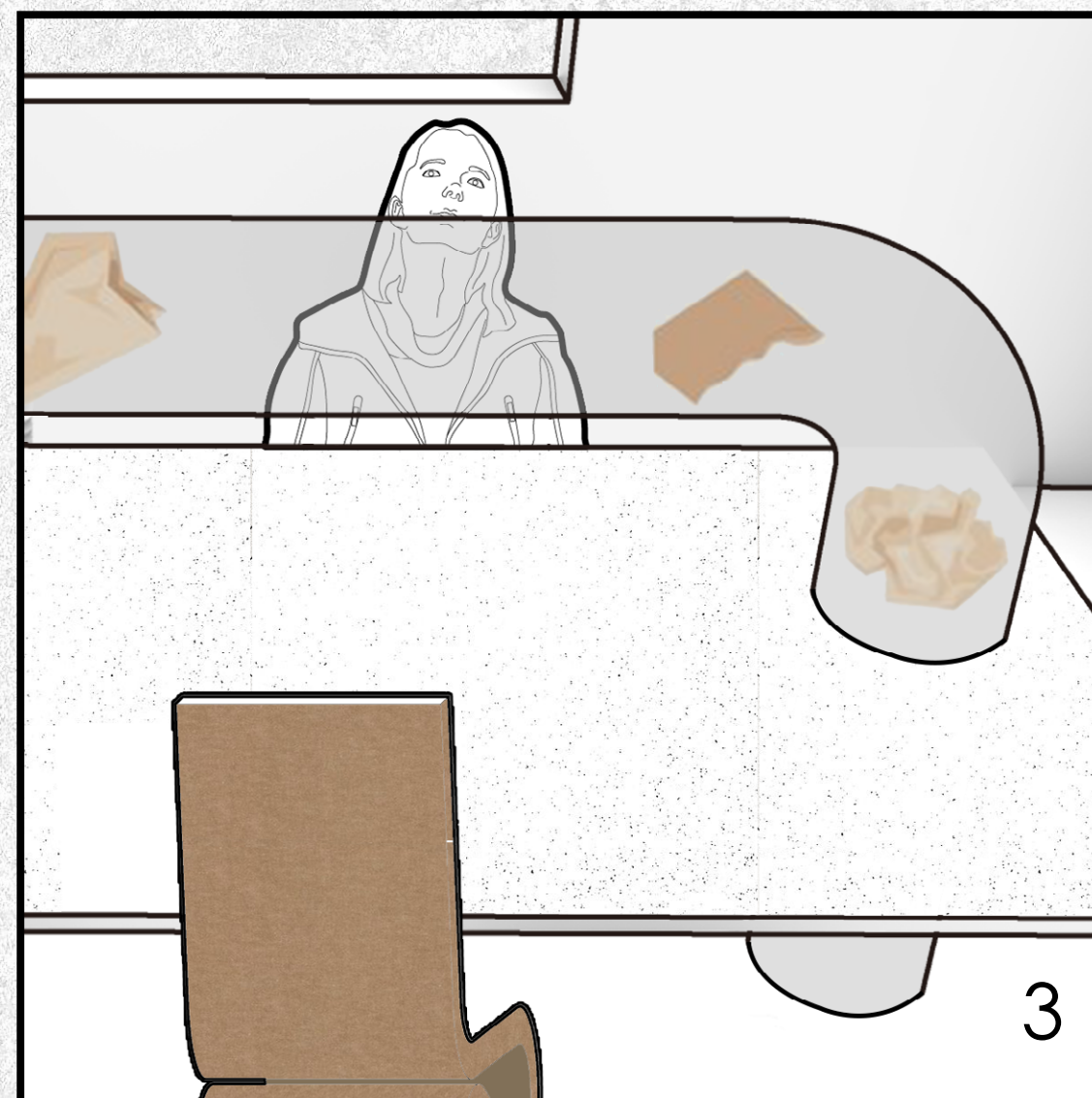
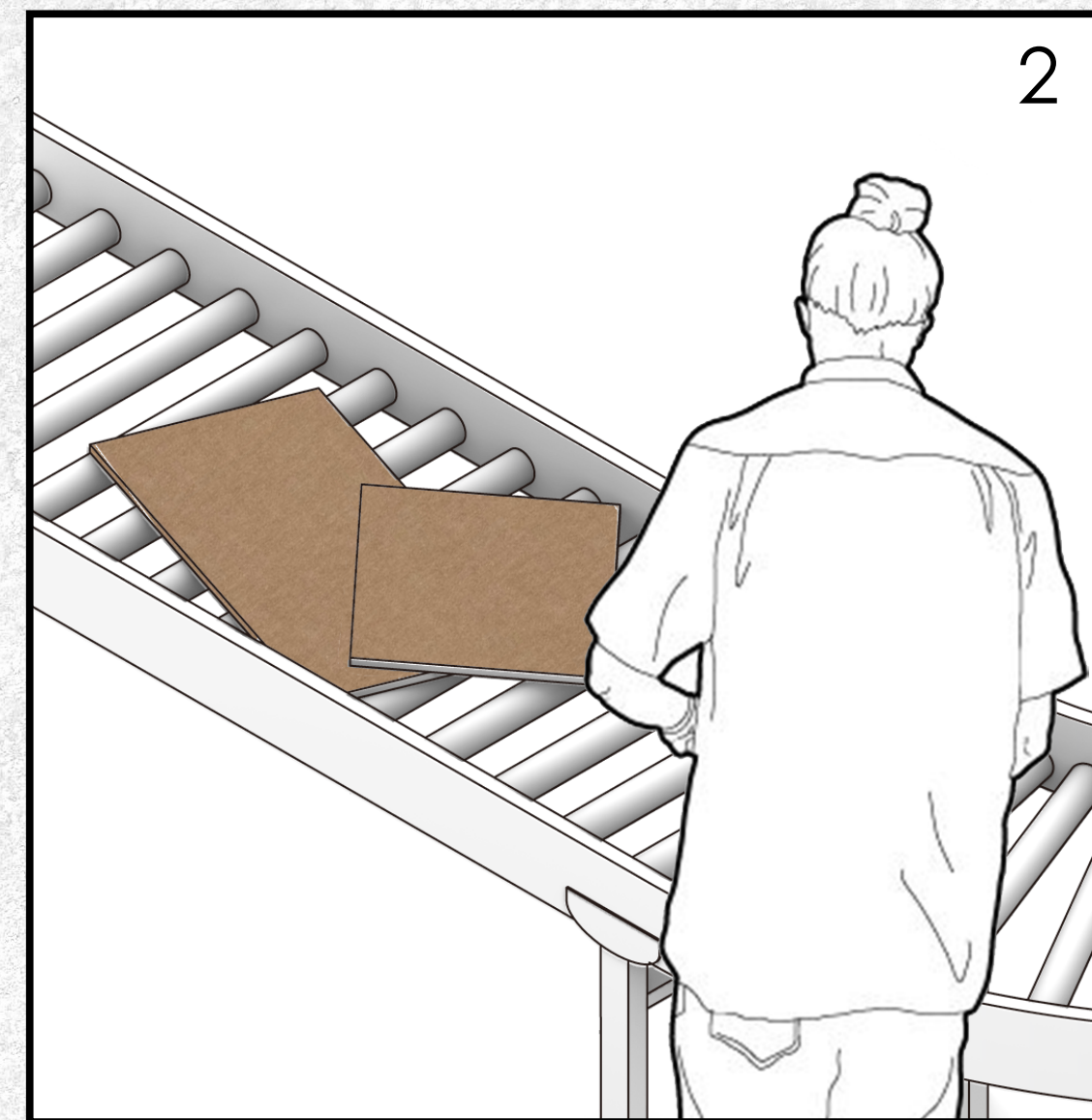
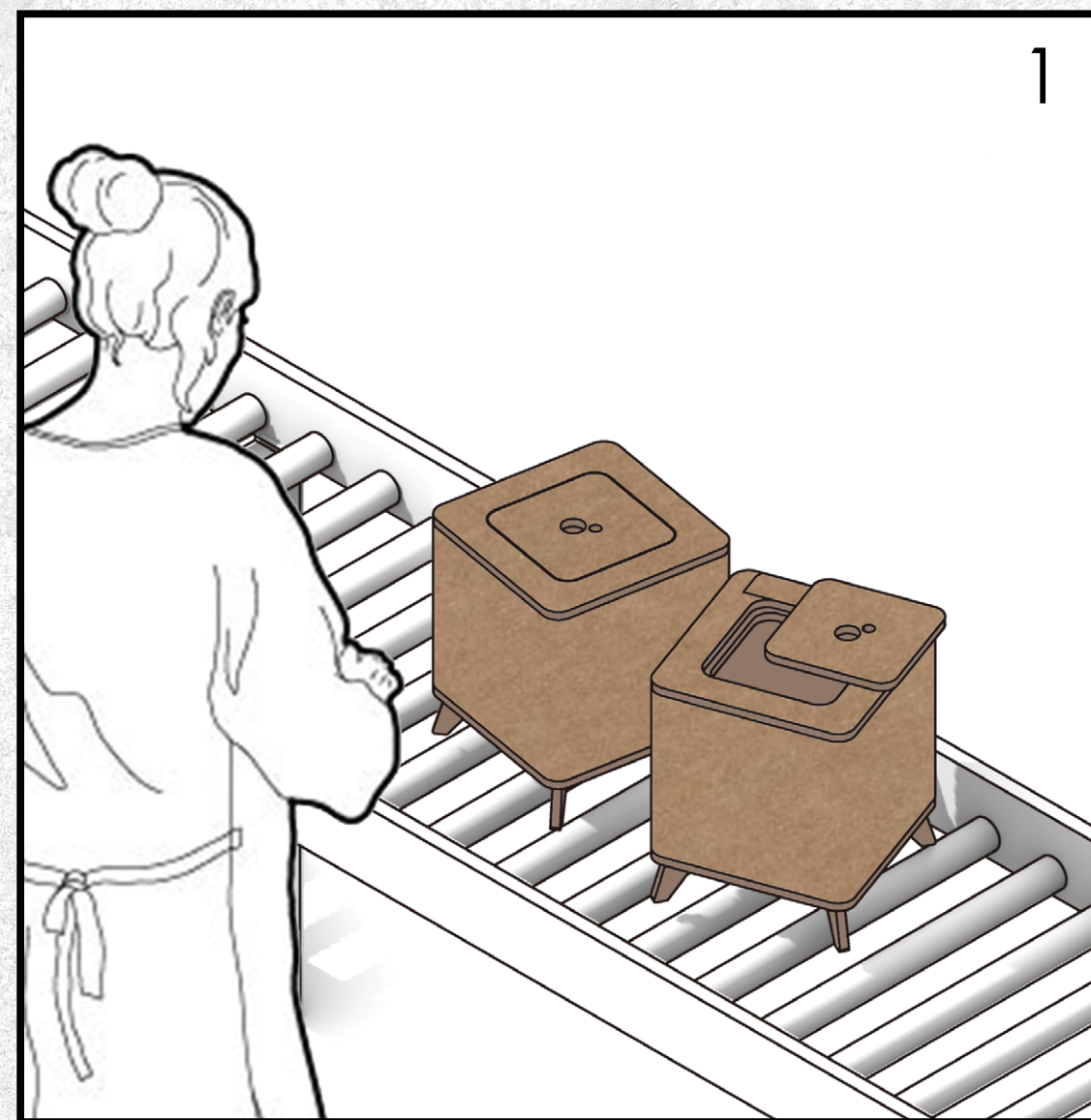
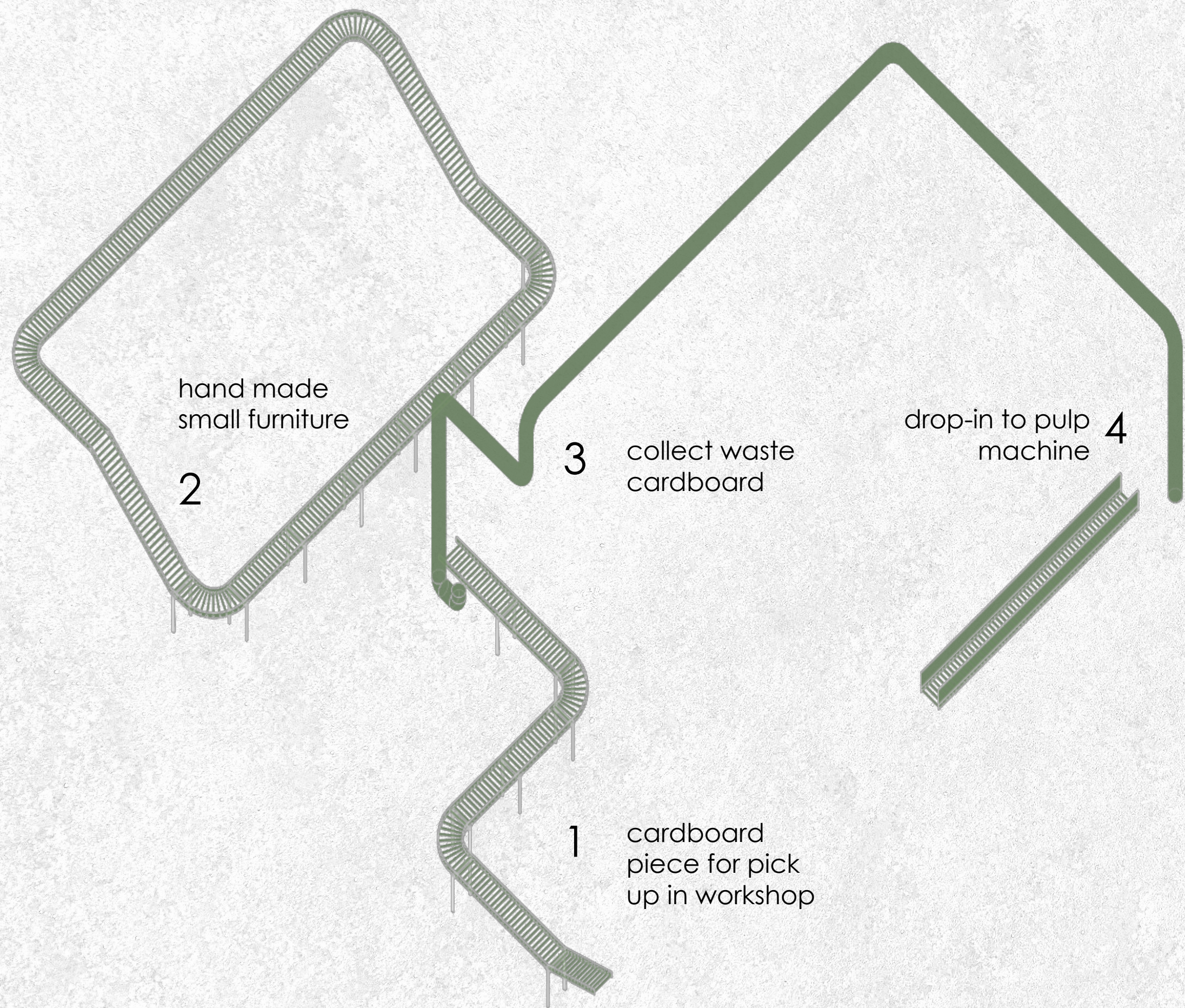
Belt And Pipe System



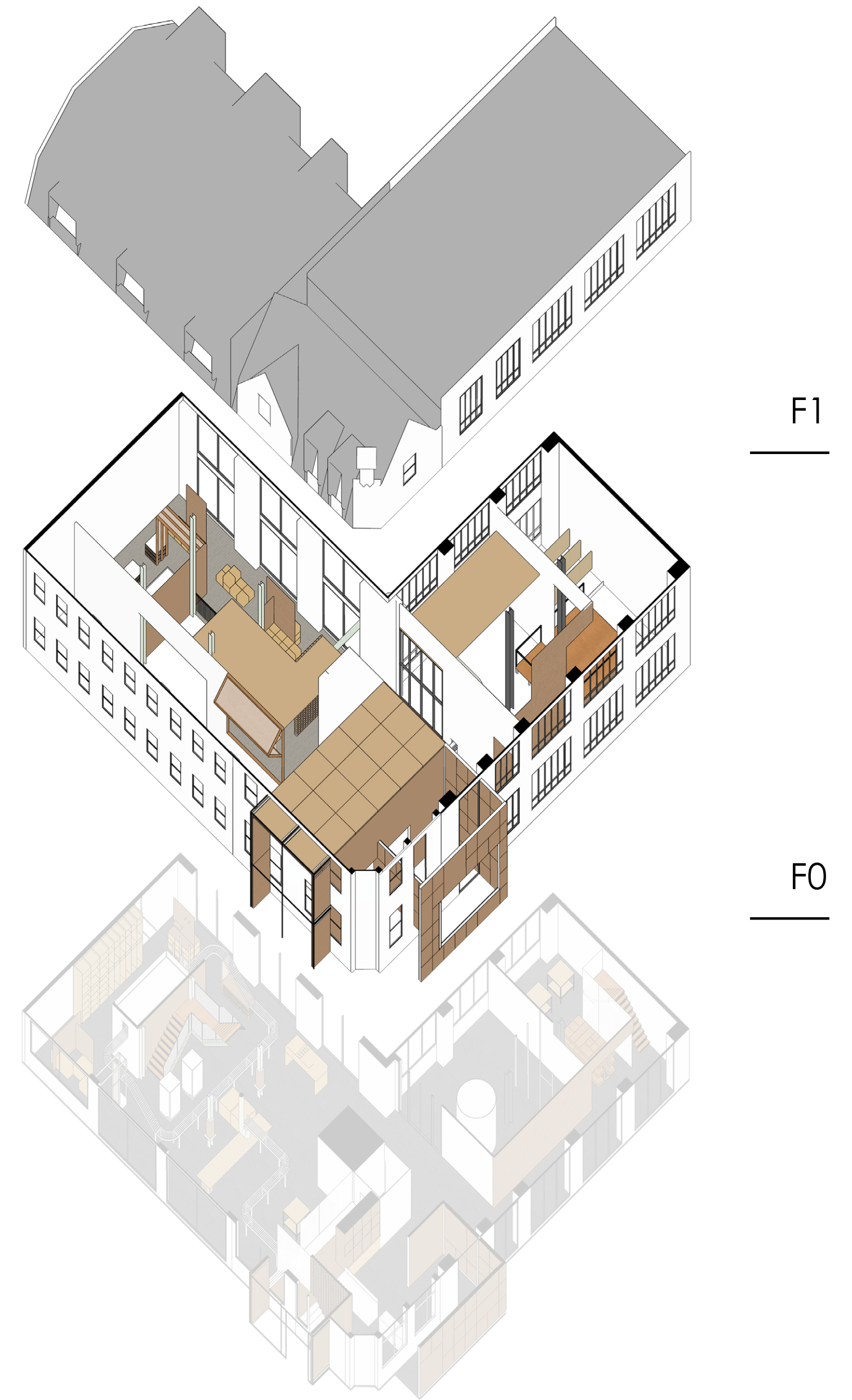
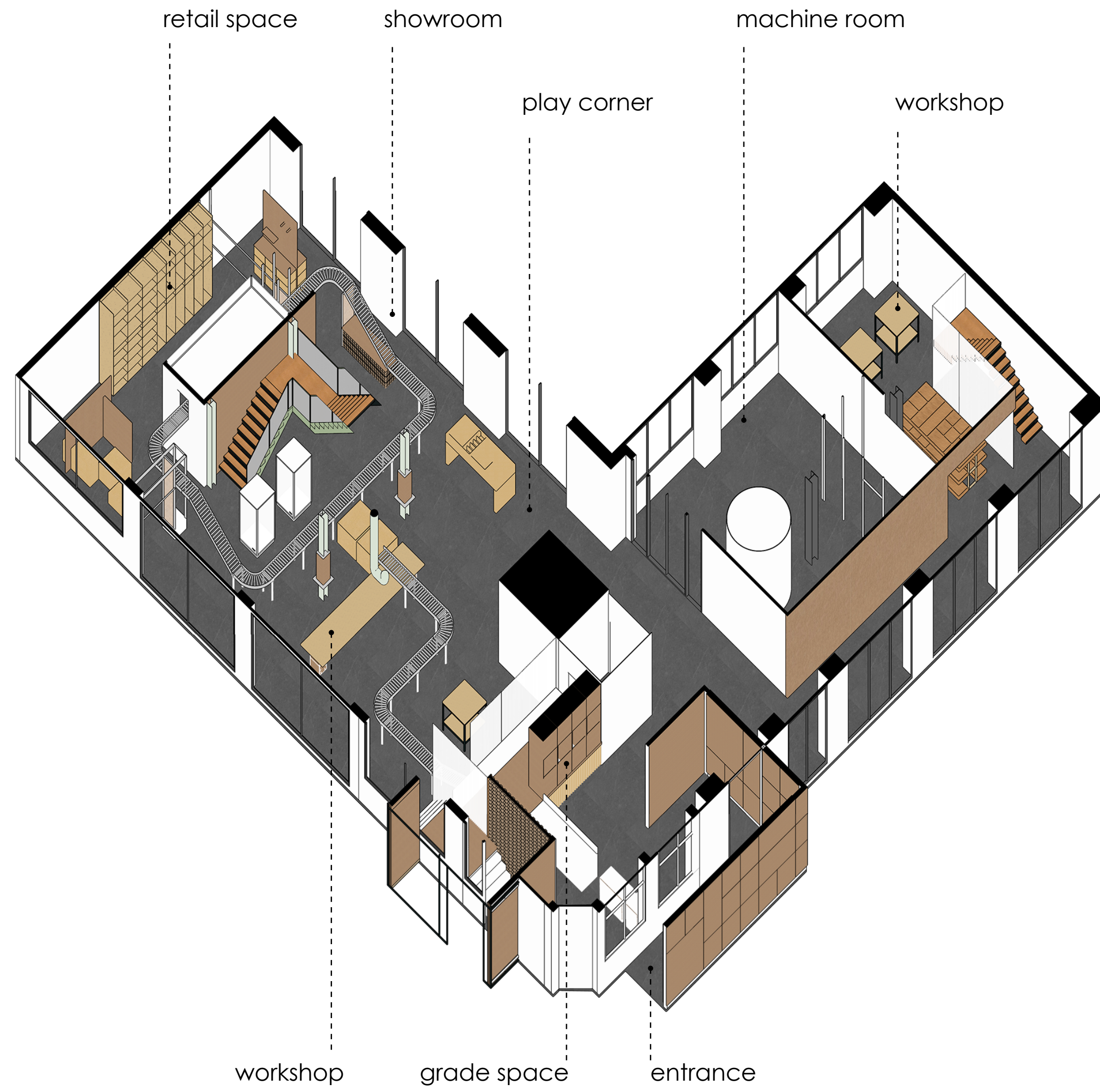
conveyor belt

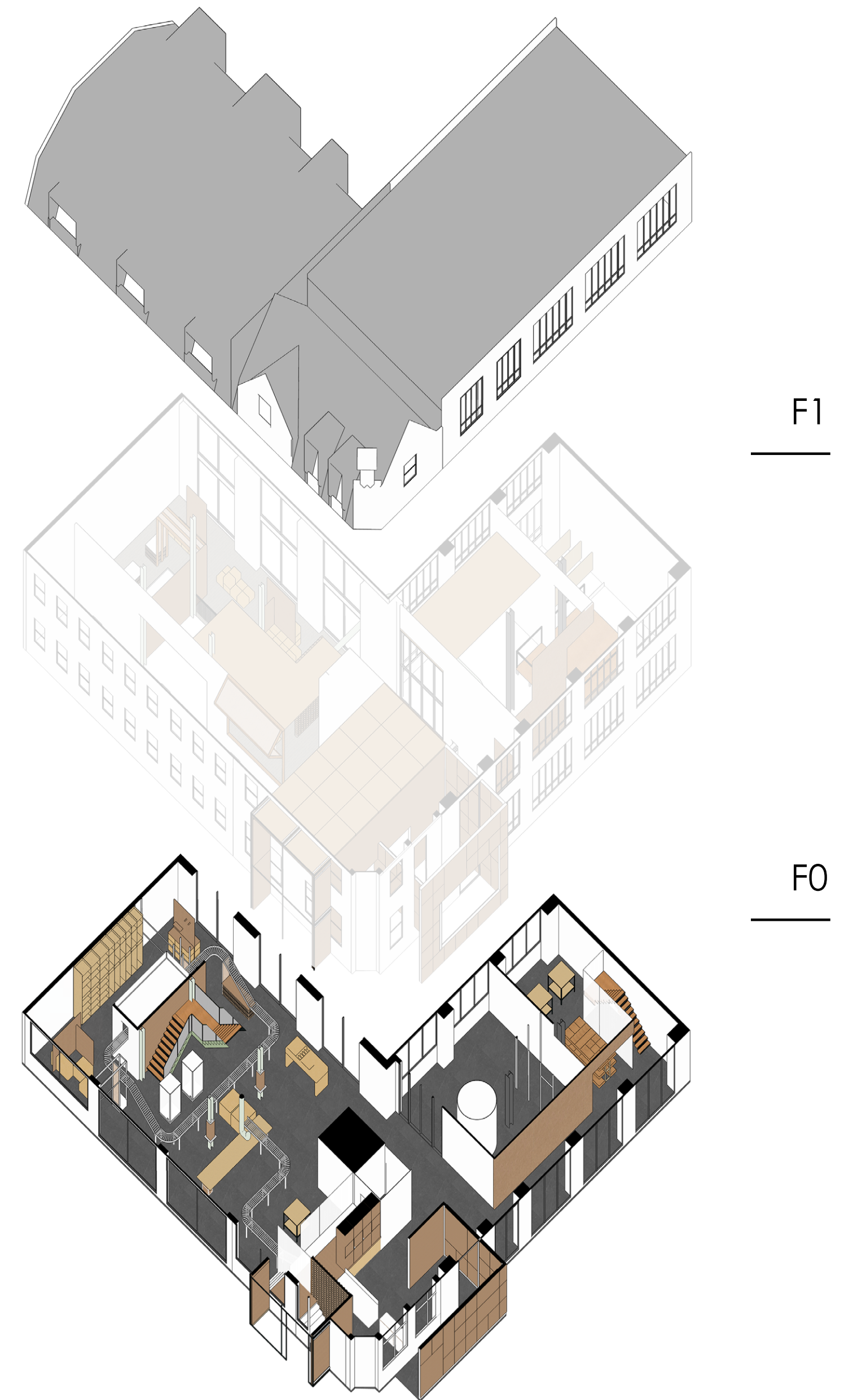
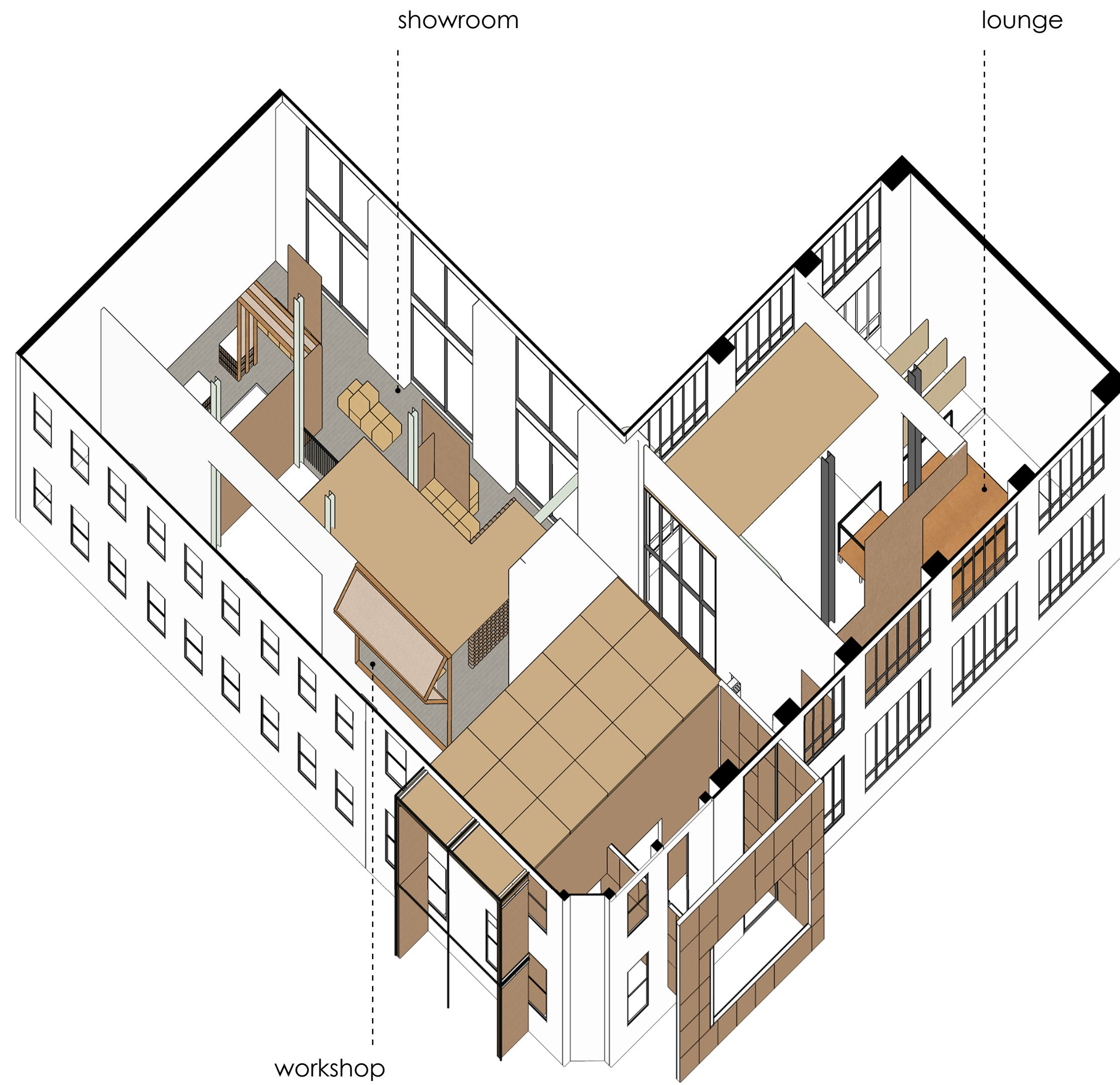


conveyor pipe

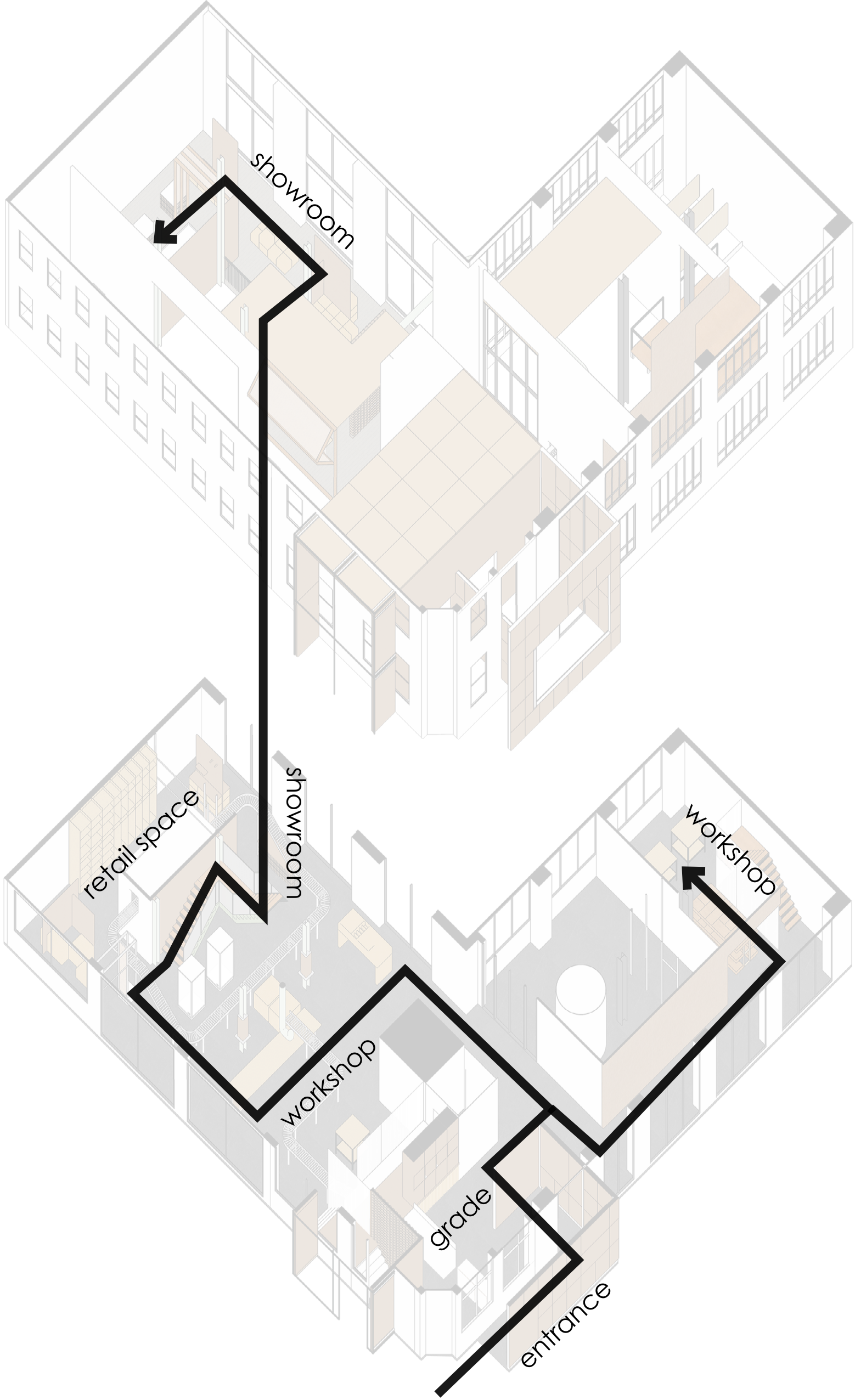


Programme

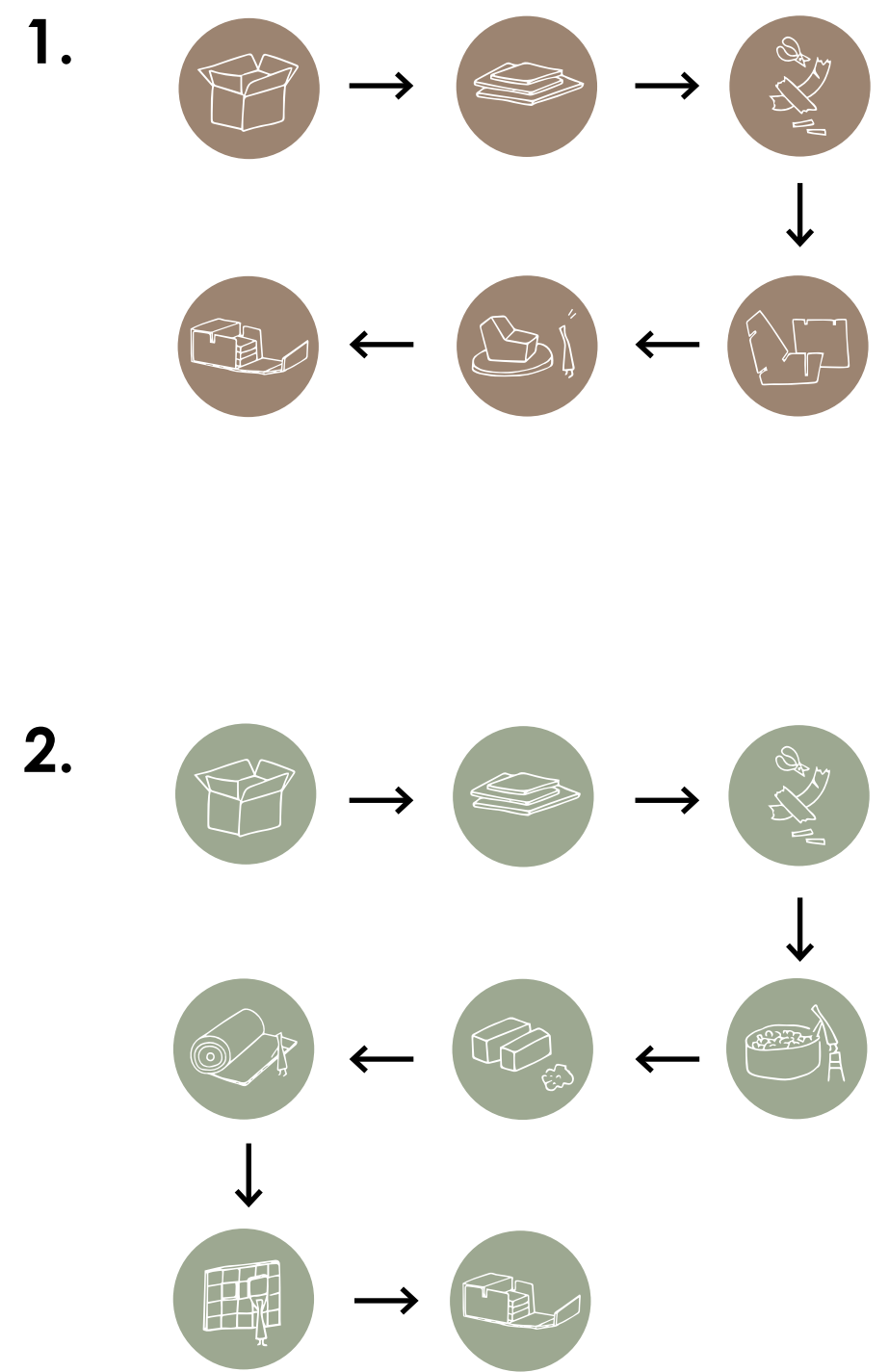
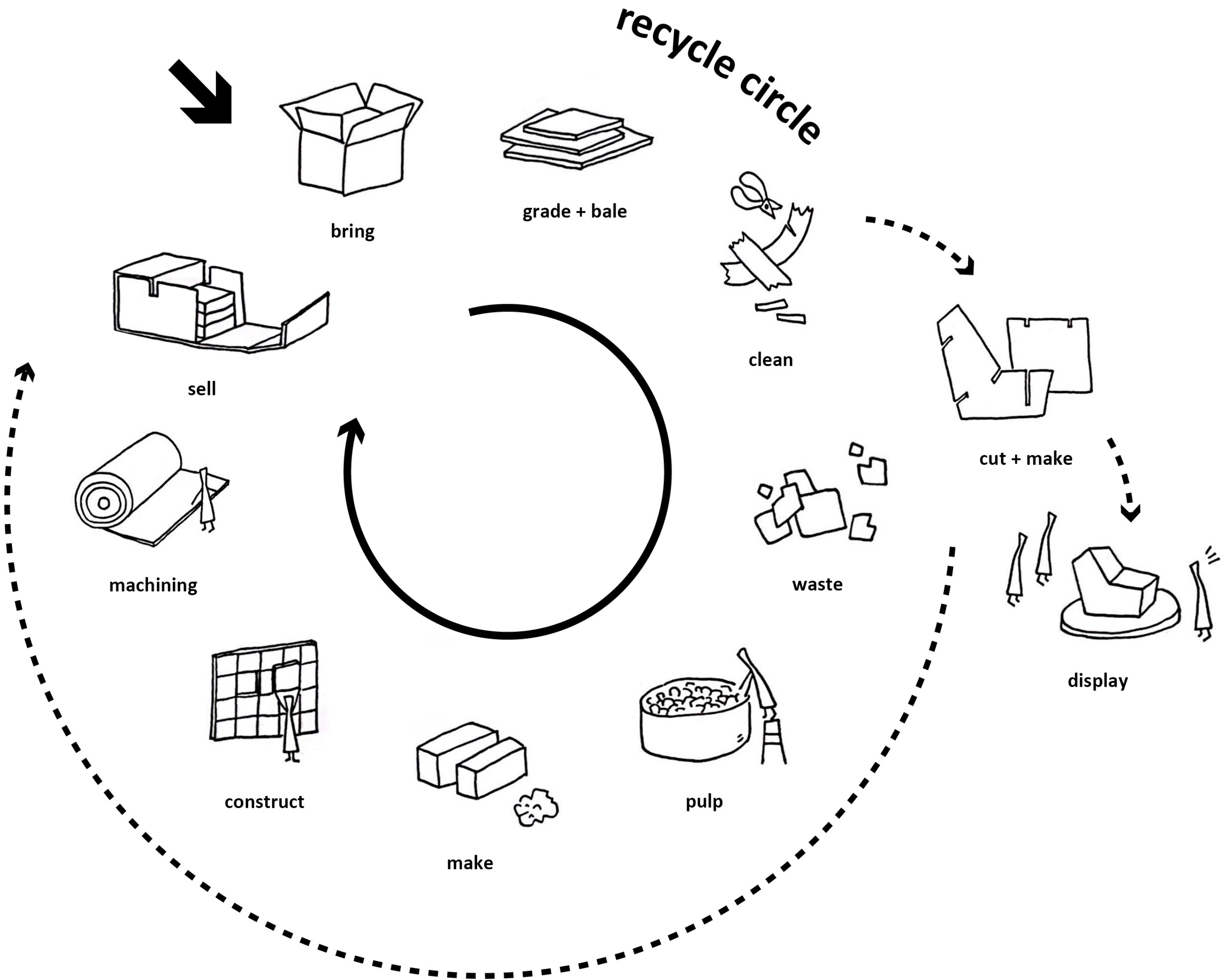




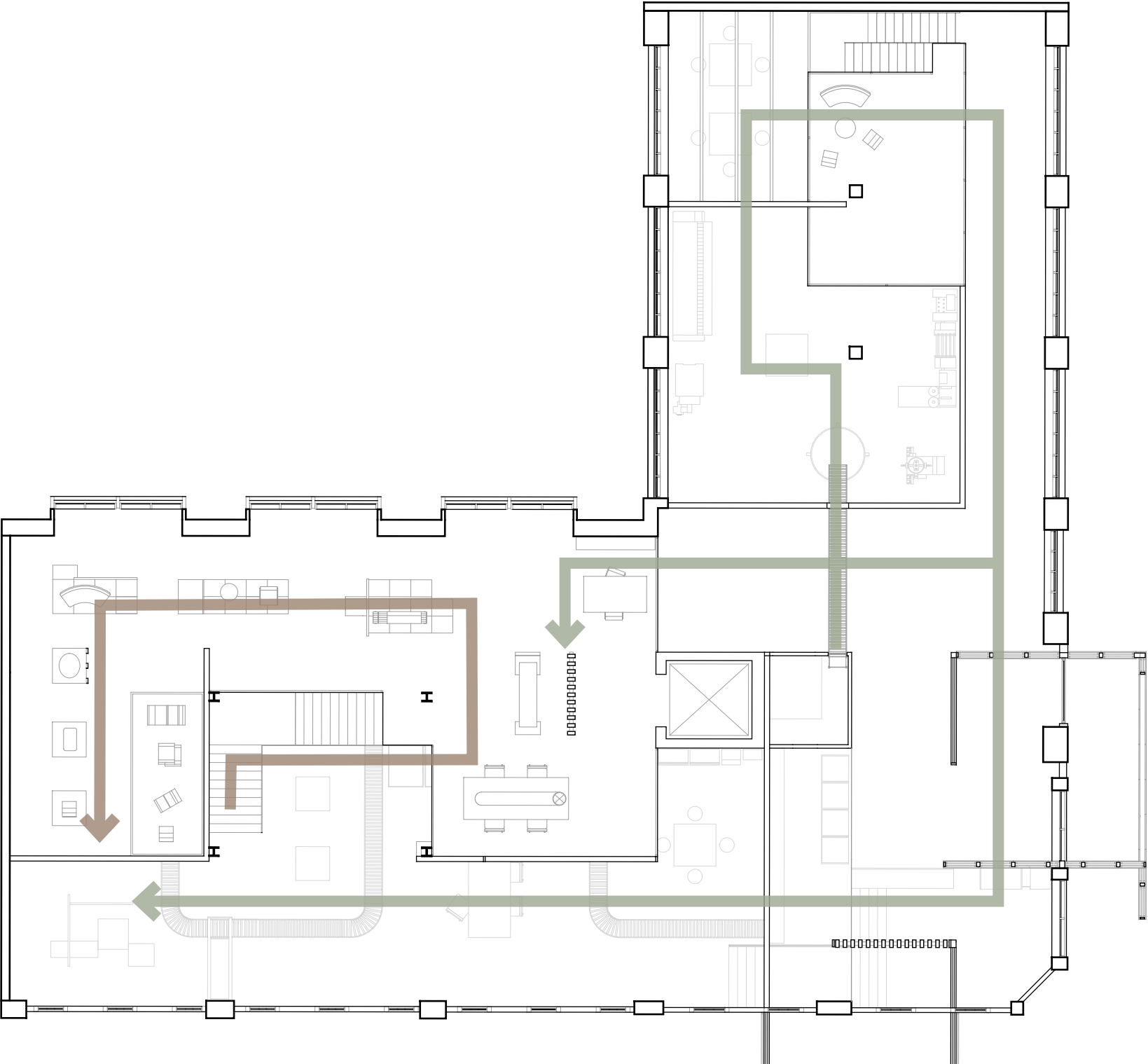
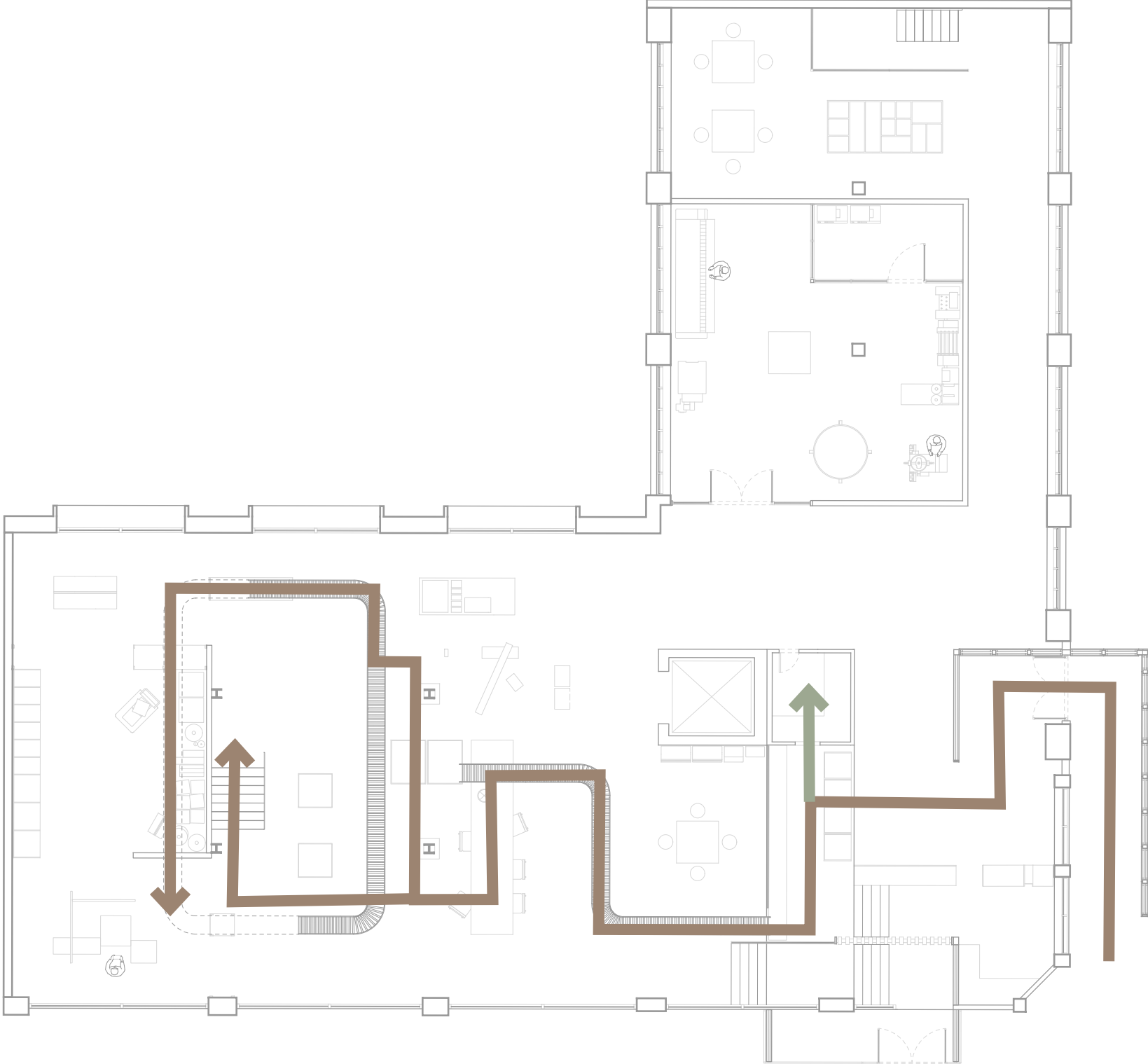
Client Circulation

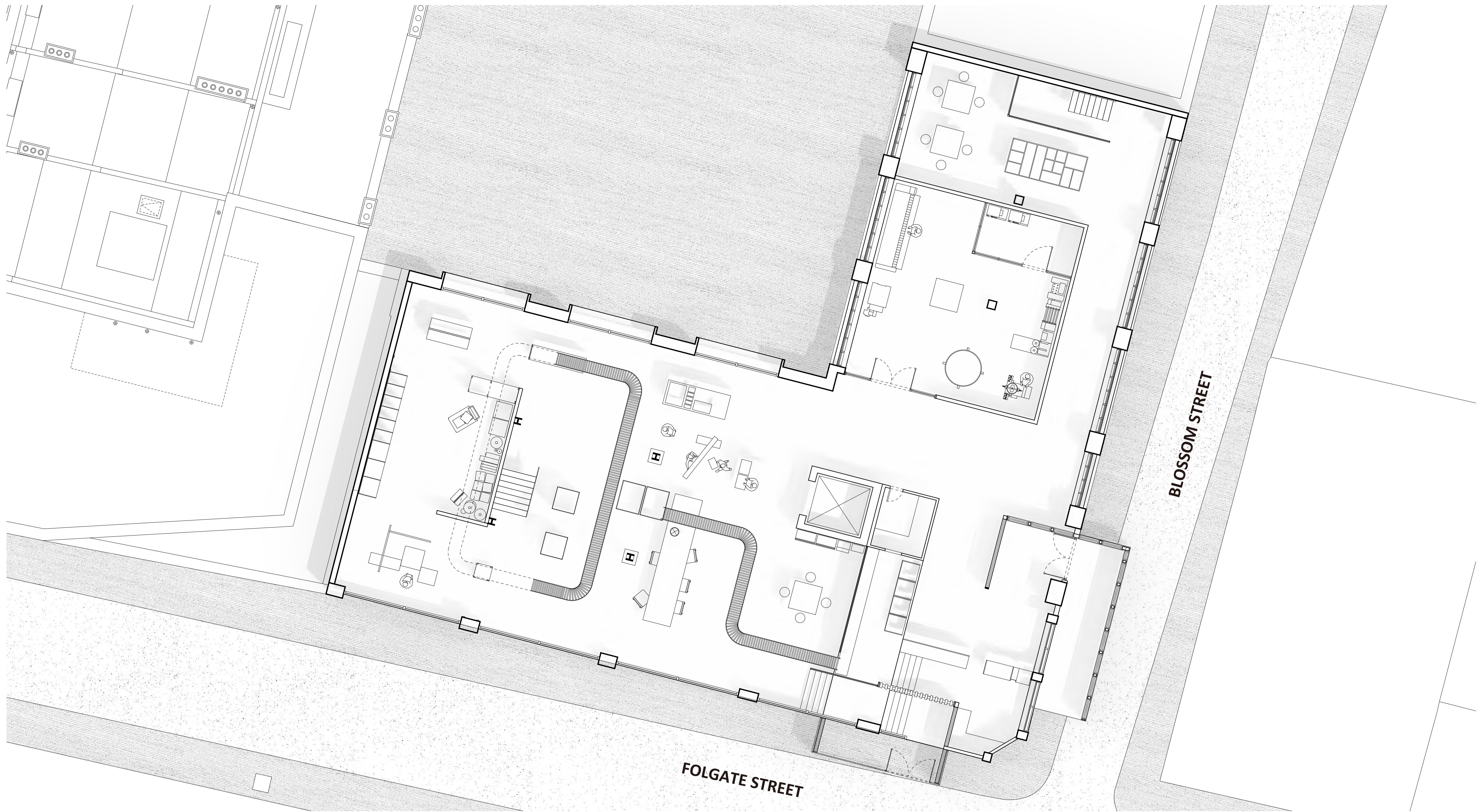


Working Principle



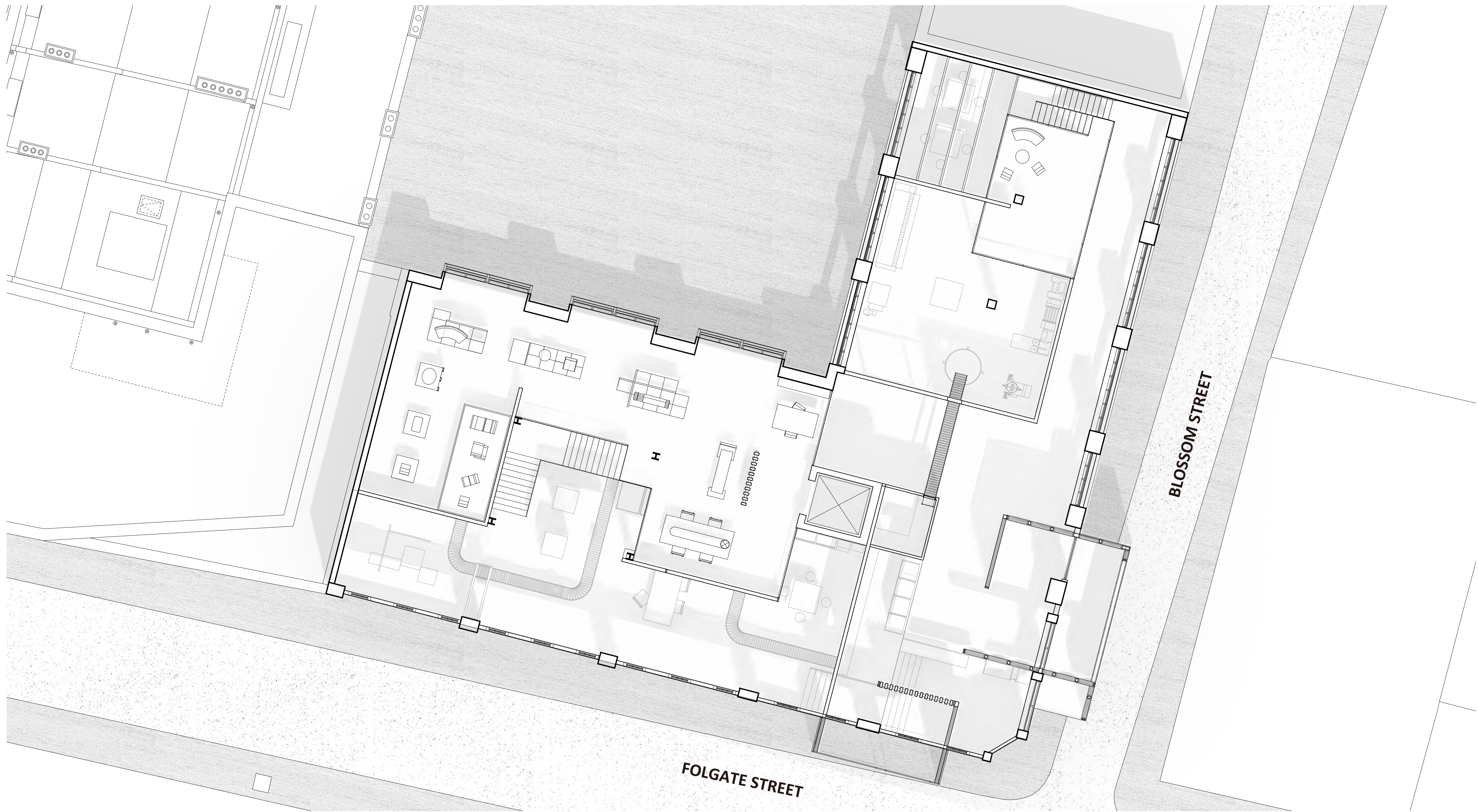
Cardboard Circulation





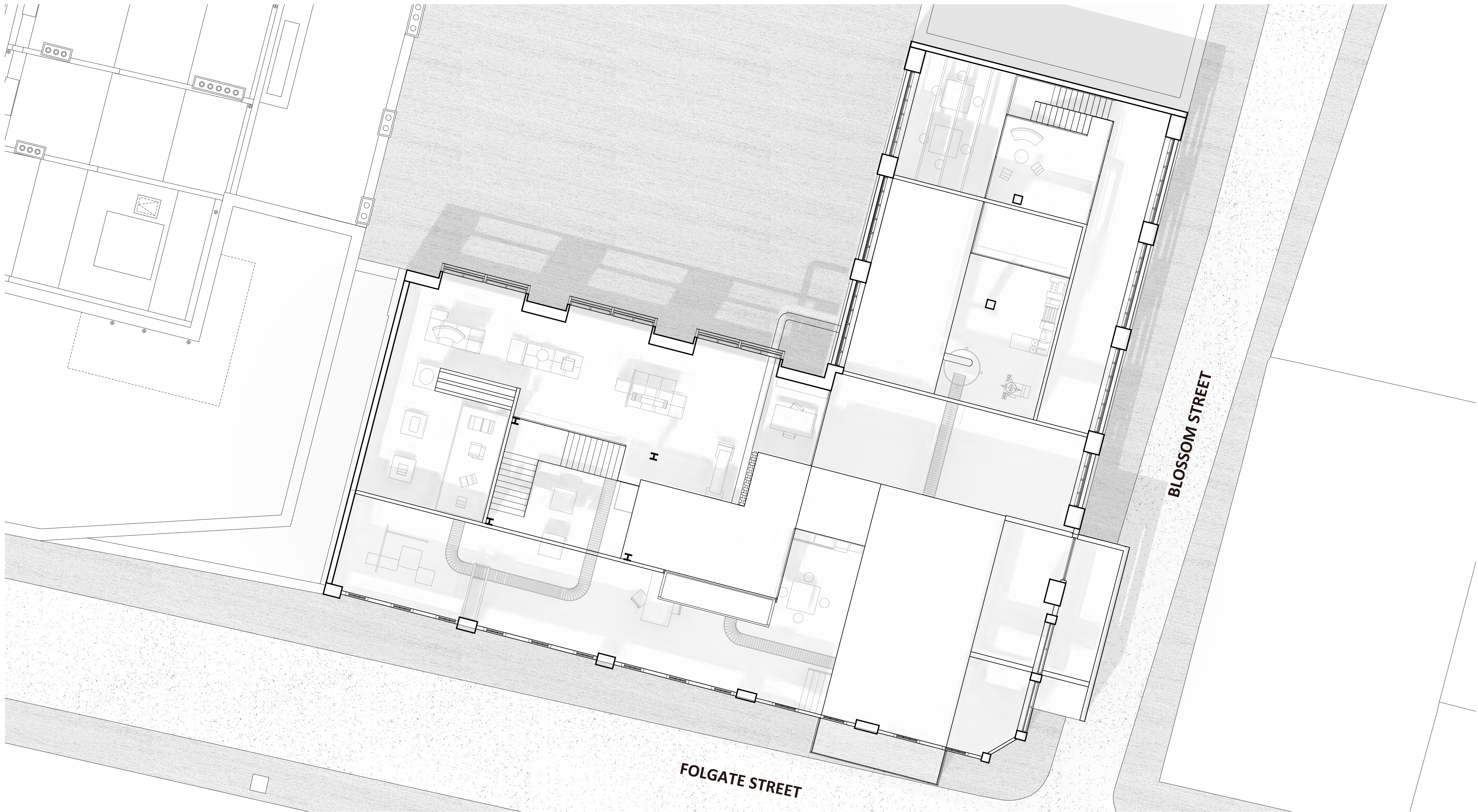
BLOSSOM STREET

FOLGATE STREET



FOLGATE STREET

BLOSSOM STREET

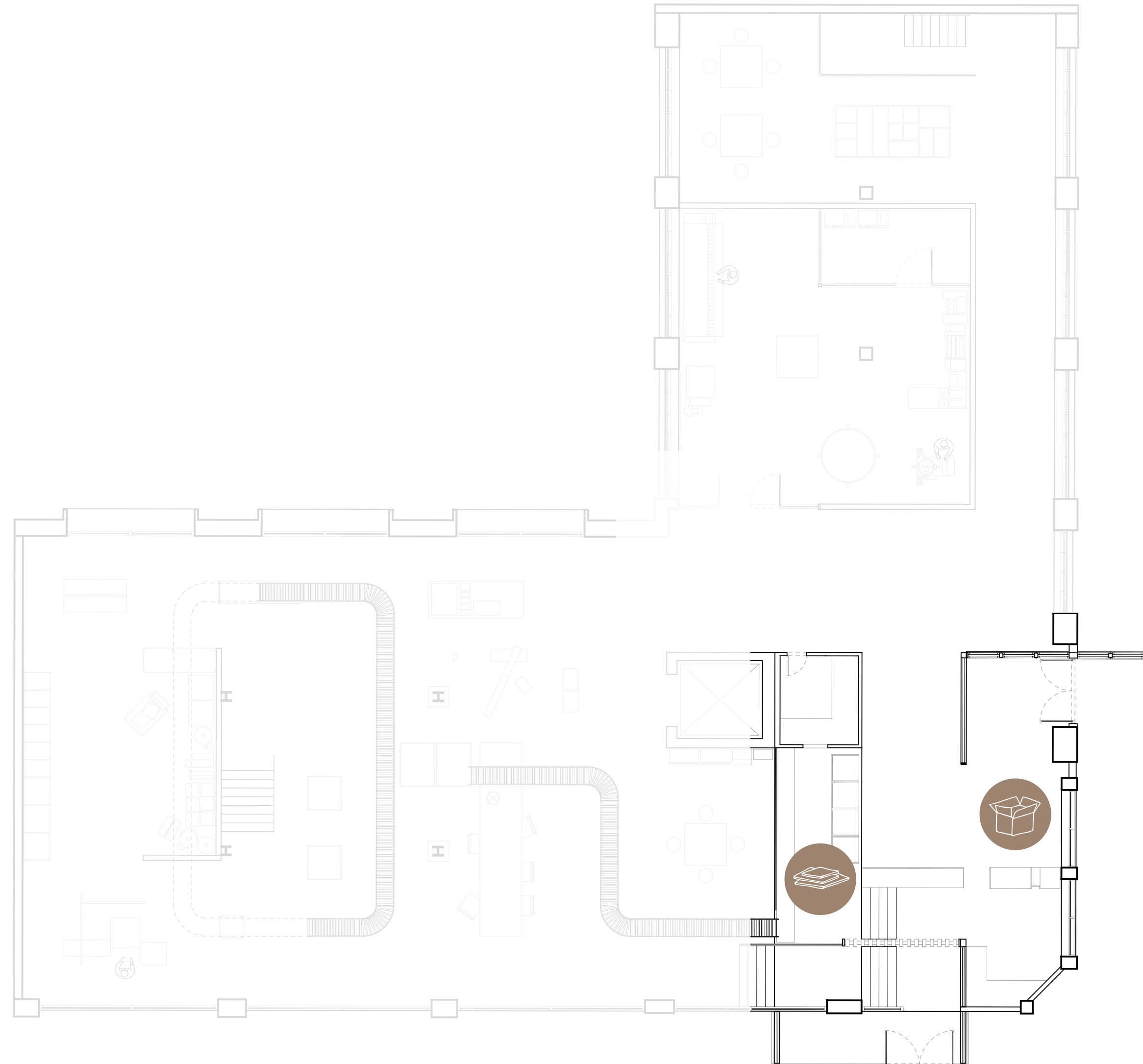


BLOSSOM STREET

FOLGATE STREET

start the tour!





entrance + grade space



RECYCLE

TUBE

BOARD

BOX

PIECE

includes tubes of various
made from paper or
used for packaging,
long items. Typical
towel rolls, mailing
and packaging tubes.

This category covers various types of flat
materials, such as cardboard, hardboard, and
thin wooden boards. They are commonly used
for packaging boxes, signs, and decorative
materials.

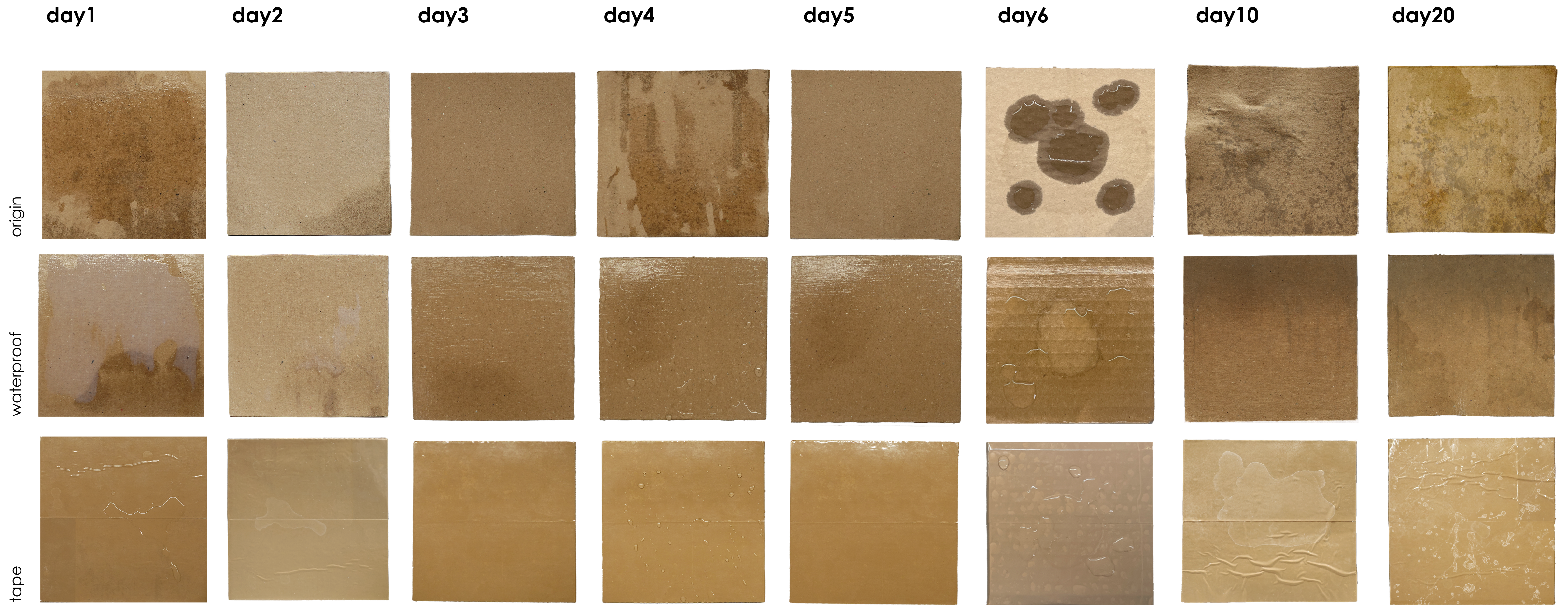
This category
includes
cardboard
packaging
include:



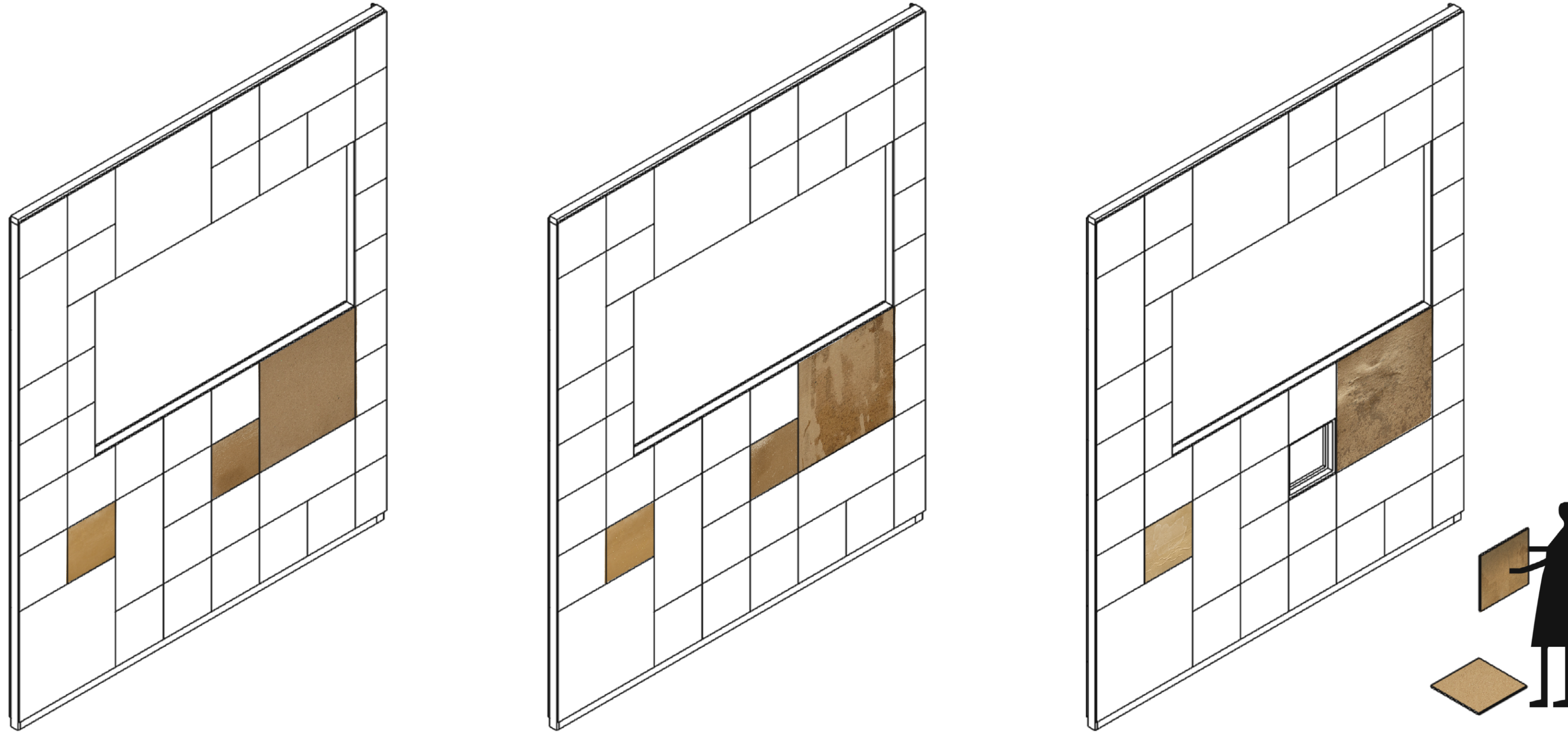


Durability Test

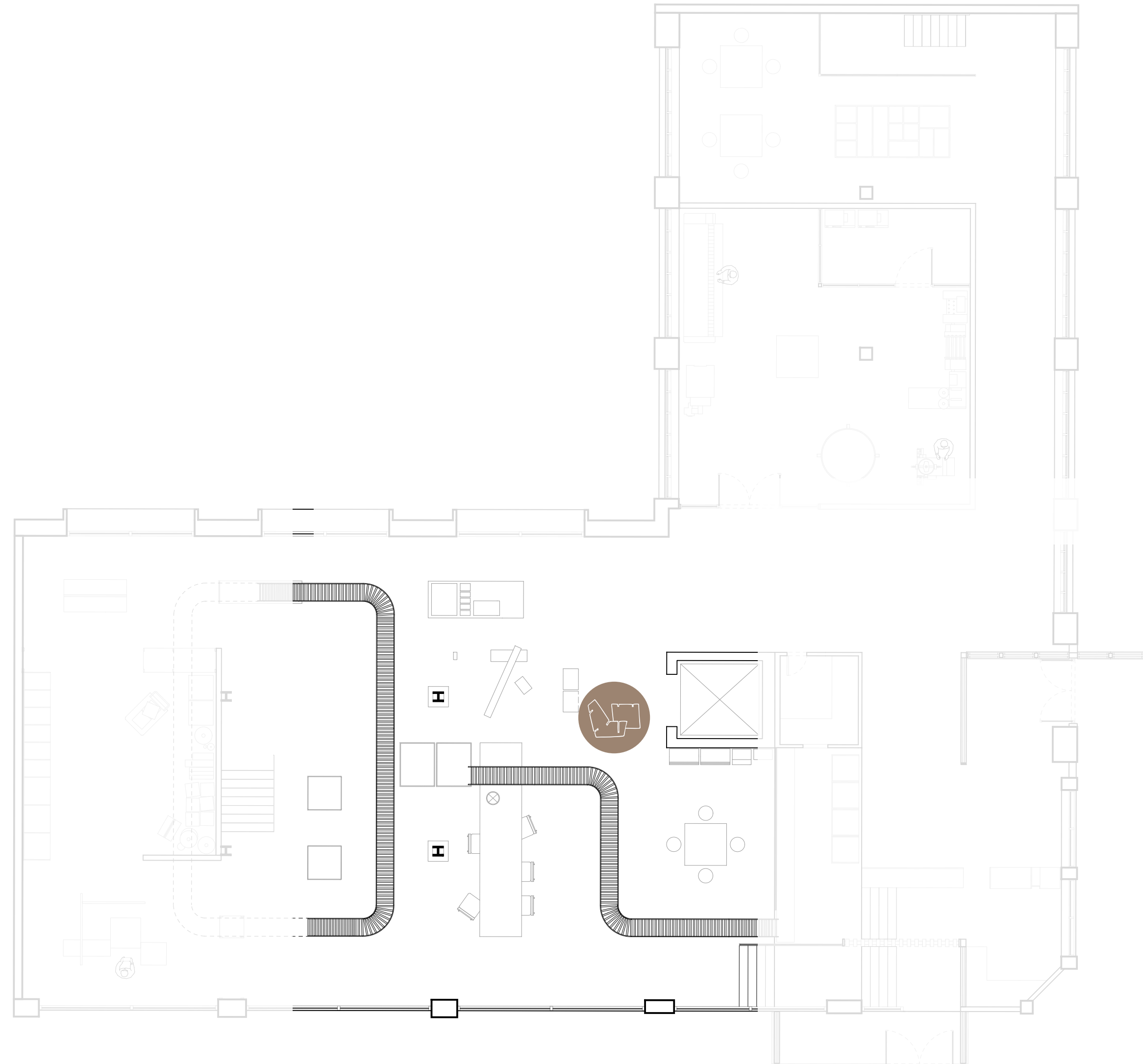
How the cardboard stay outside?



Over time, when the product can be damaged, or lose its relevance, it can be recycled again into new objects.



The cardboard panel will be changed once a month. During the month, people can experience the decayed of cardboard.



workshop + play corner





Light System Design

How will the furniture made by people be used?



box



clean



flatten



mend



cut



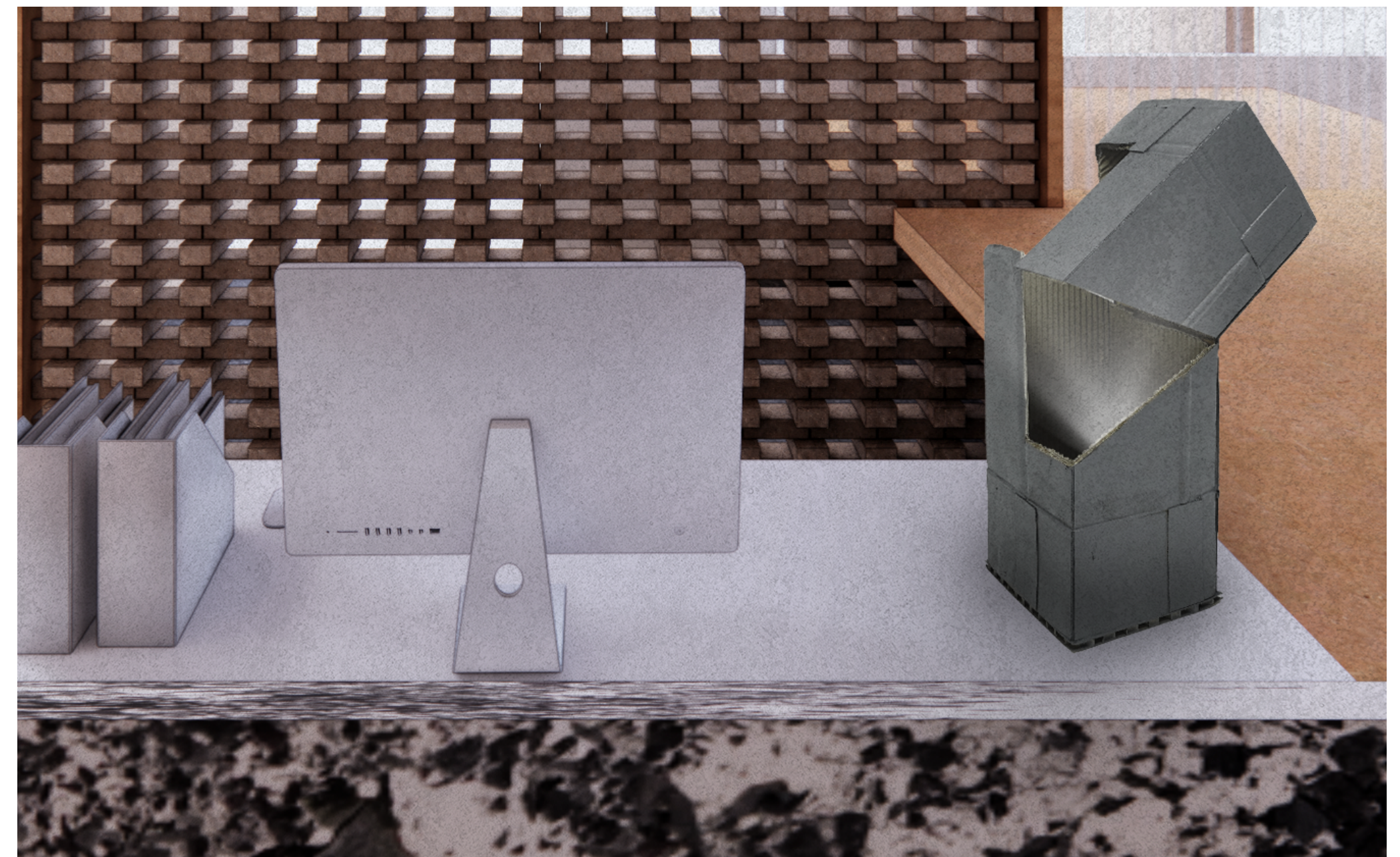
make



cover



spray



Furniture Design

How to play with the scale of cardboard?



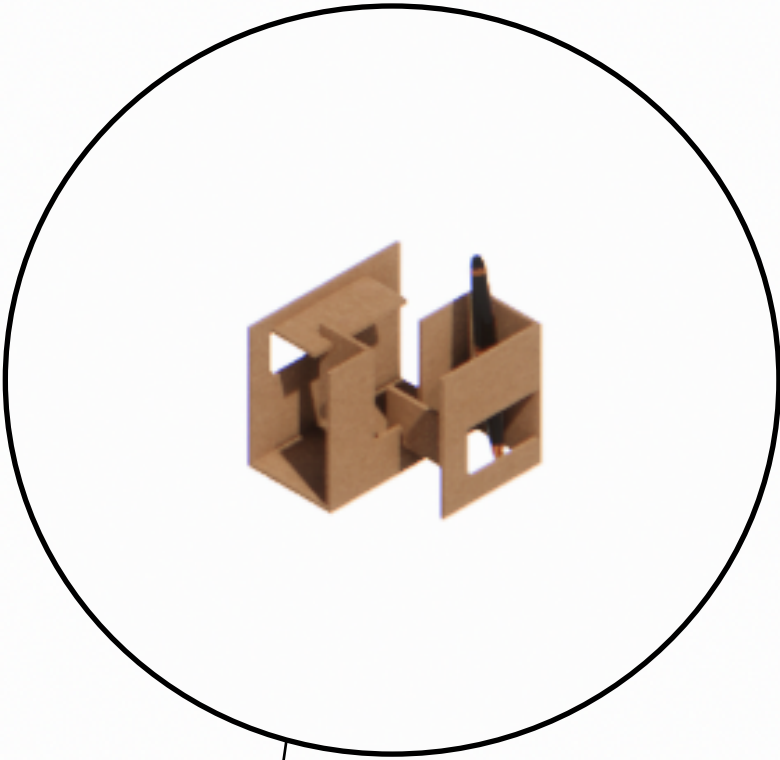
room

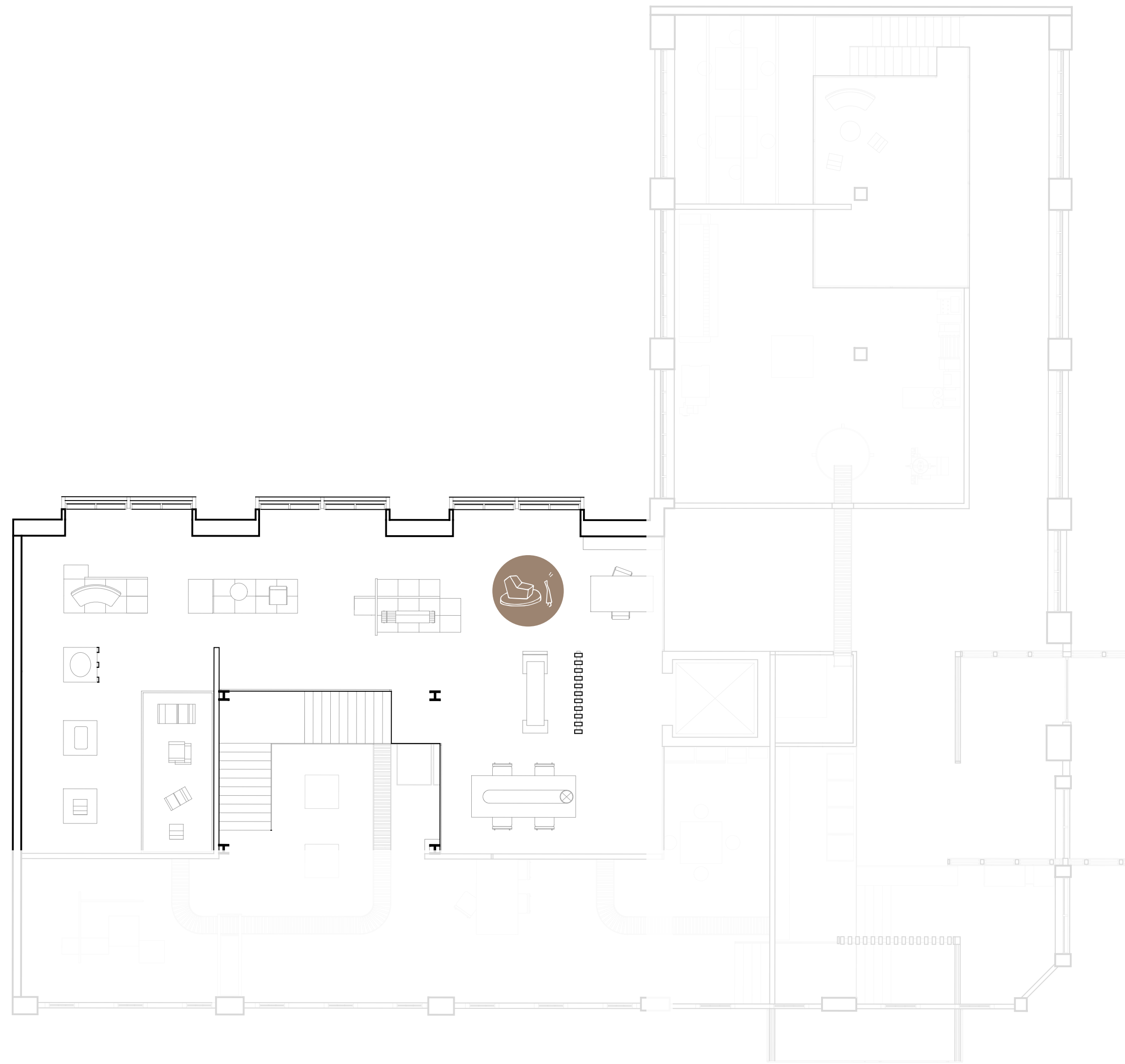


furniture



object





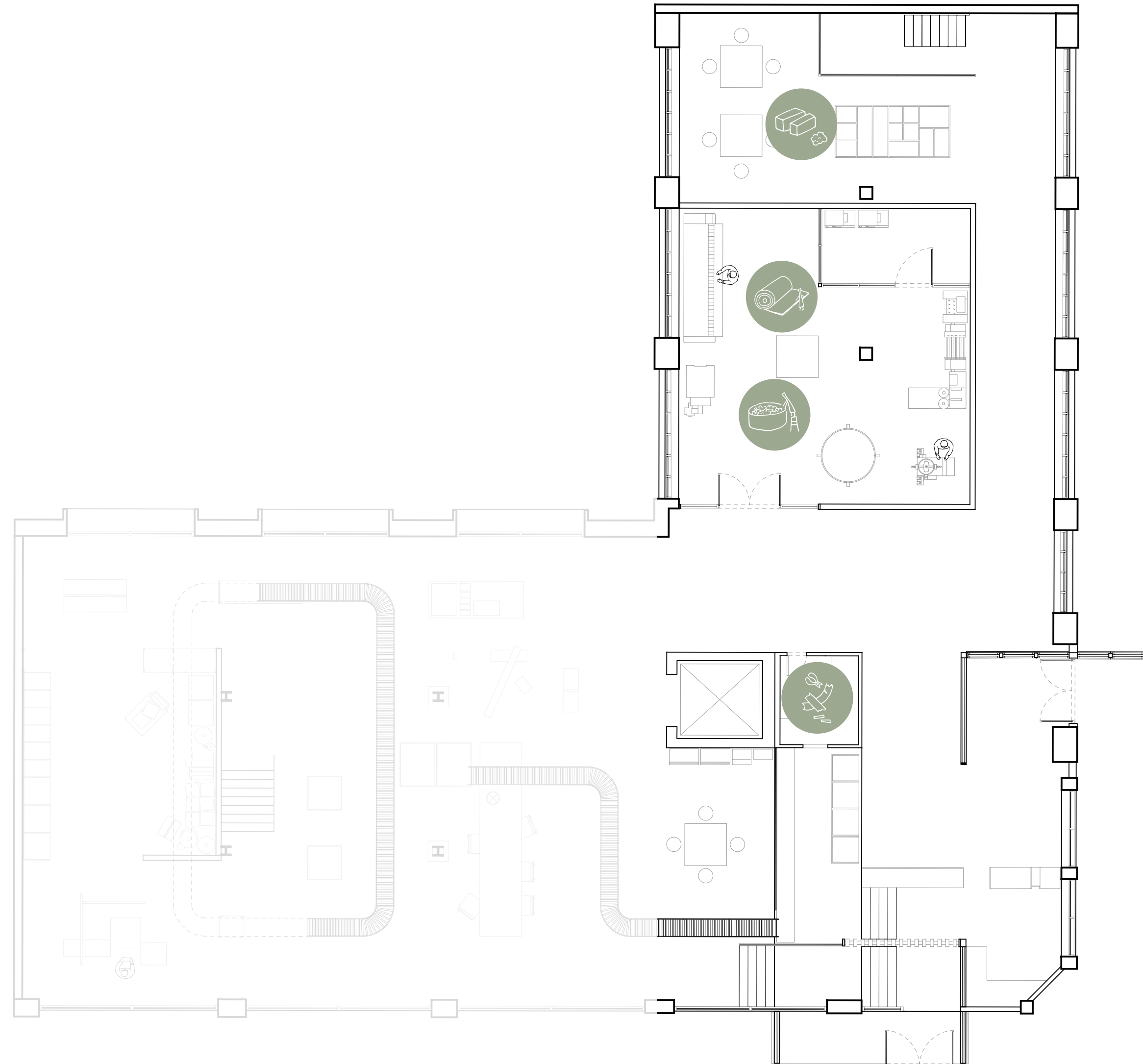
showroom



Chirigami

A team dedicated
to creating
innovative products
from cardboard, the
company focuses on
eco-friendliness and
circularity. Utilizing
recycled corrugated
cardboard to create
products like their
stackable organizers
and table design
concept, providing a
solution for cardboard
waste.





machinery + workshop





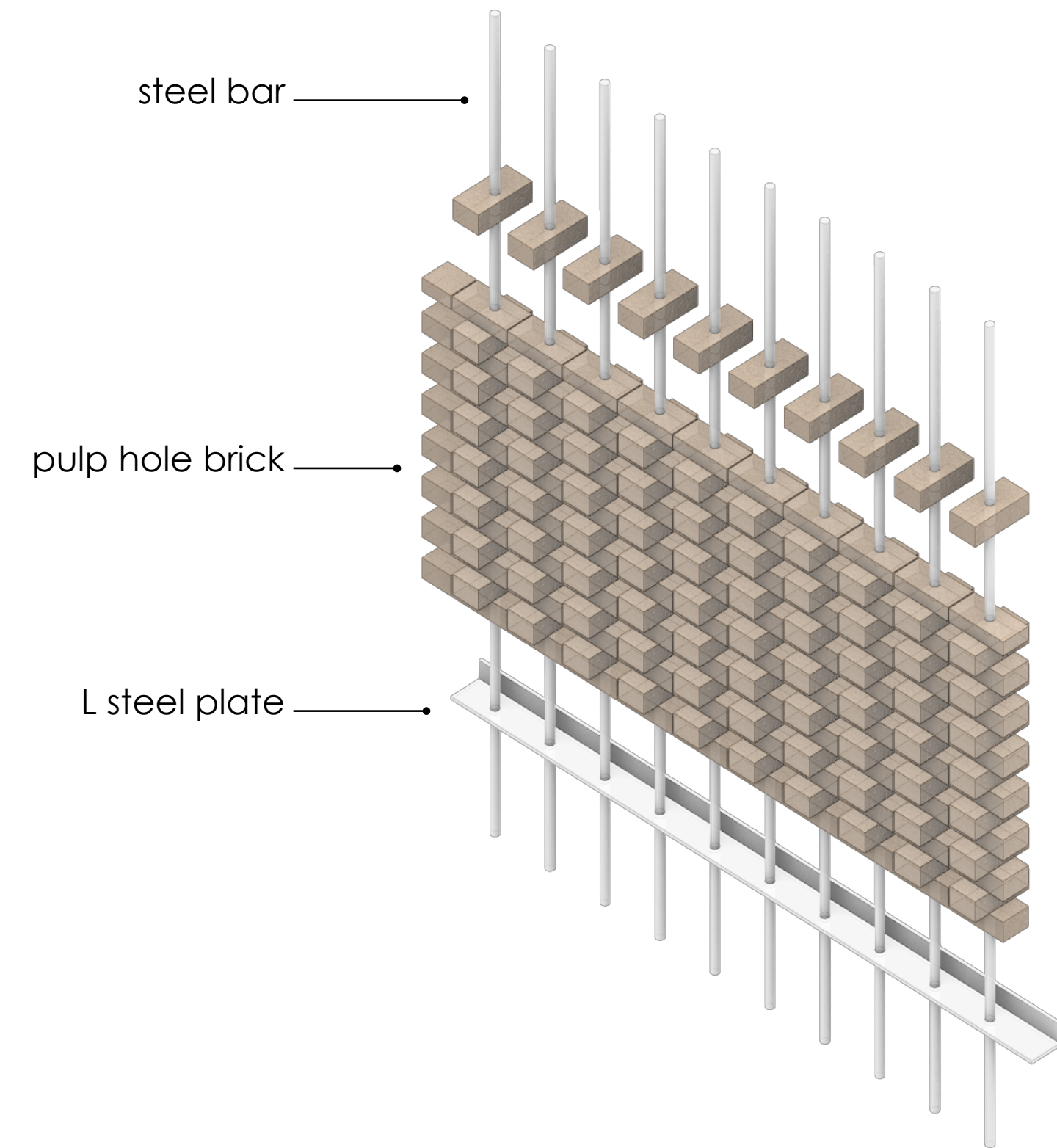


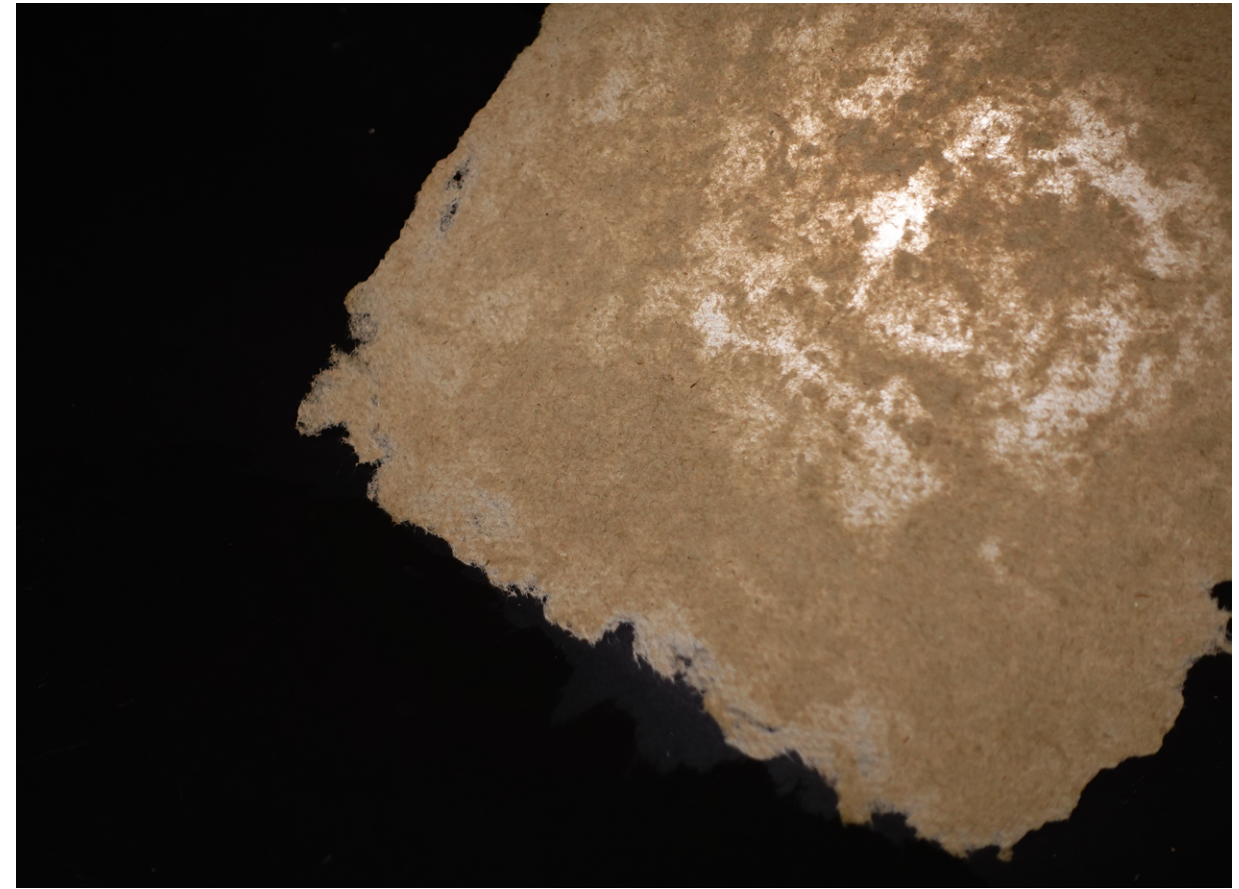


Material Test
How to "use" cardboard?



cardboard pulp

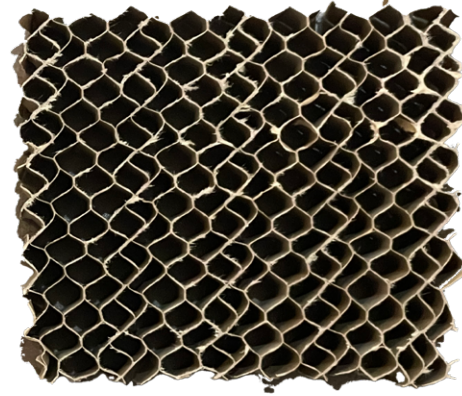




cardboard paper frame



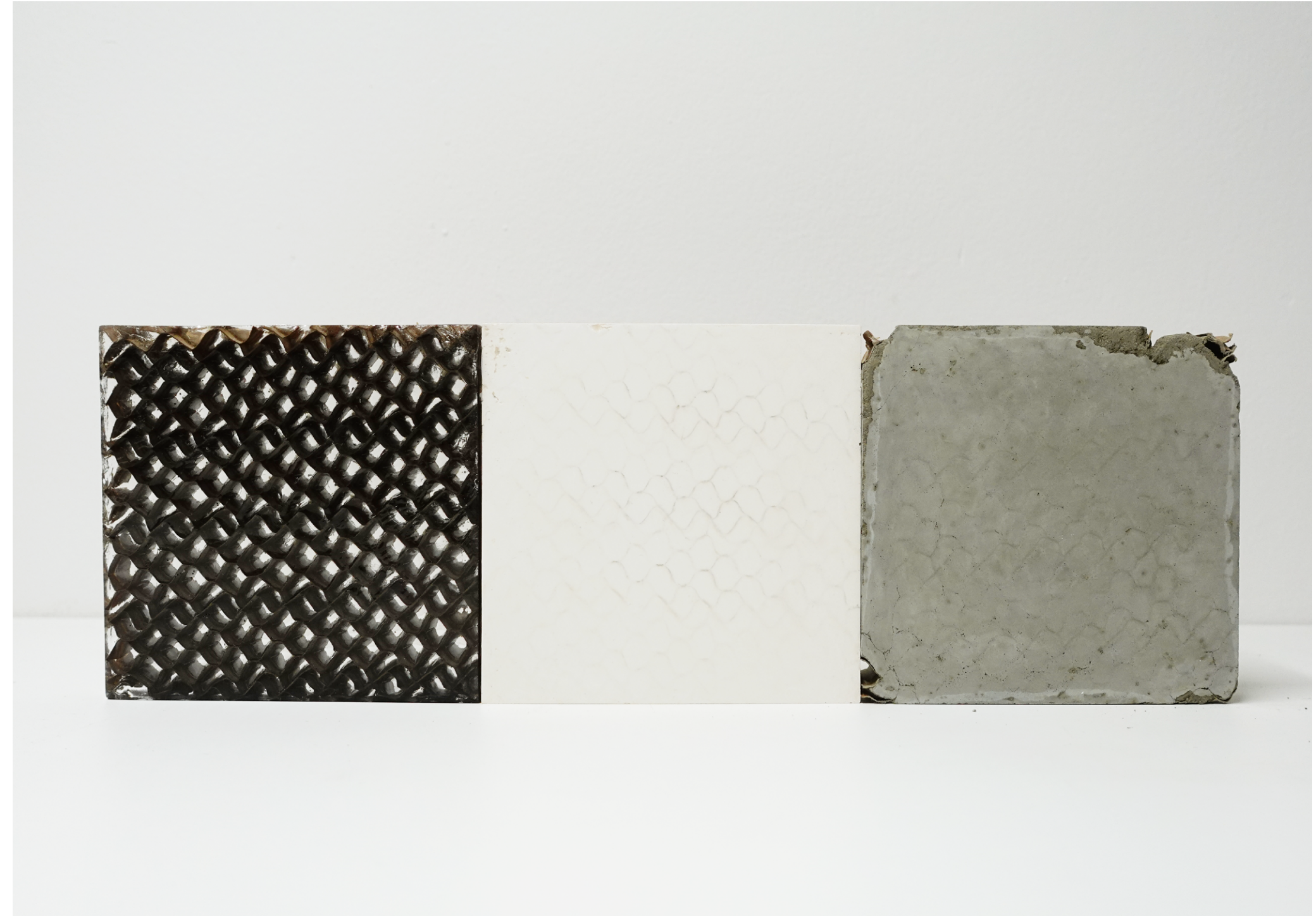
cardboard paper and clay



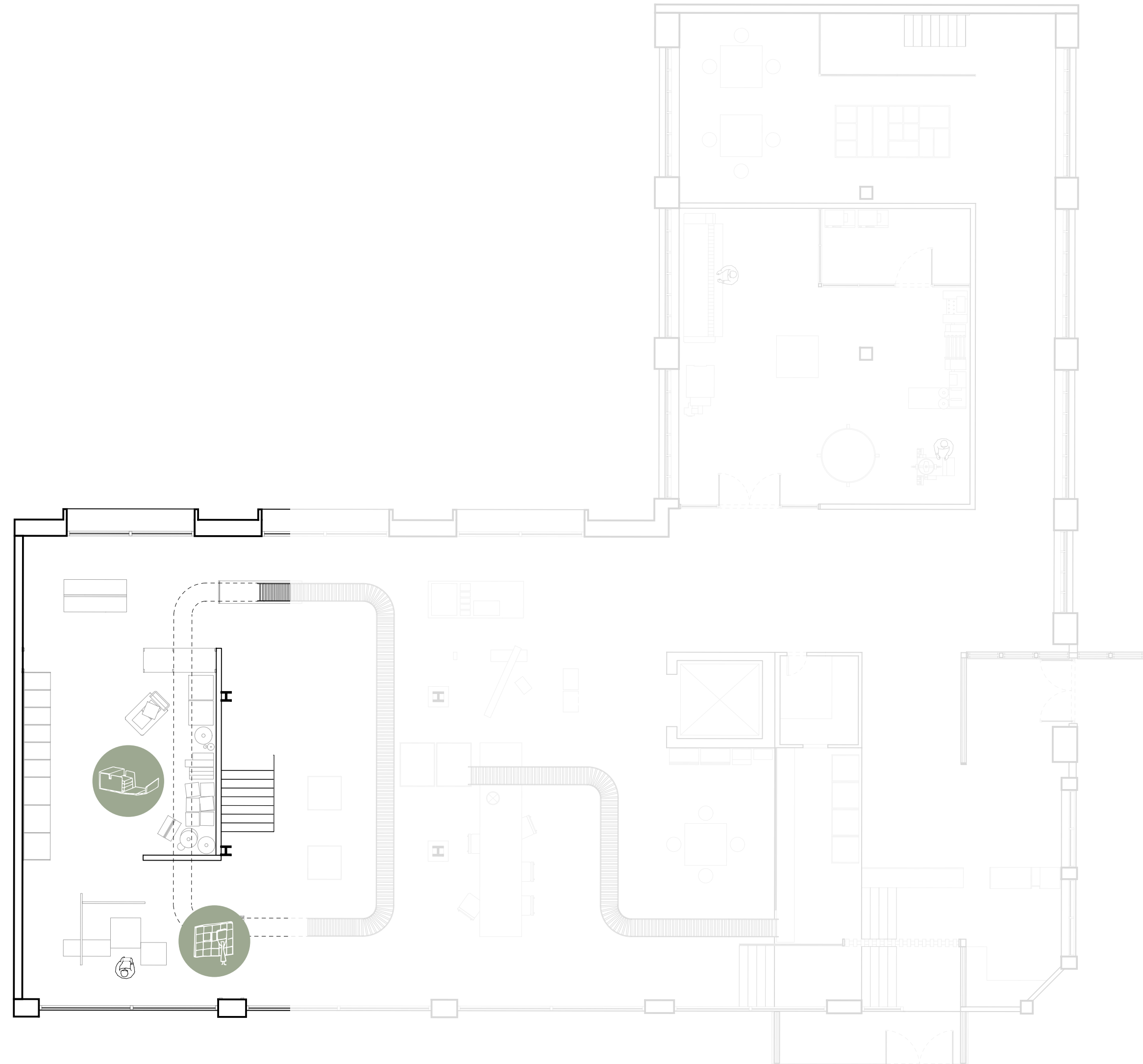
cement



plaster



cardboard and plaster/concrete



construct + retail

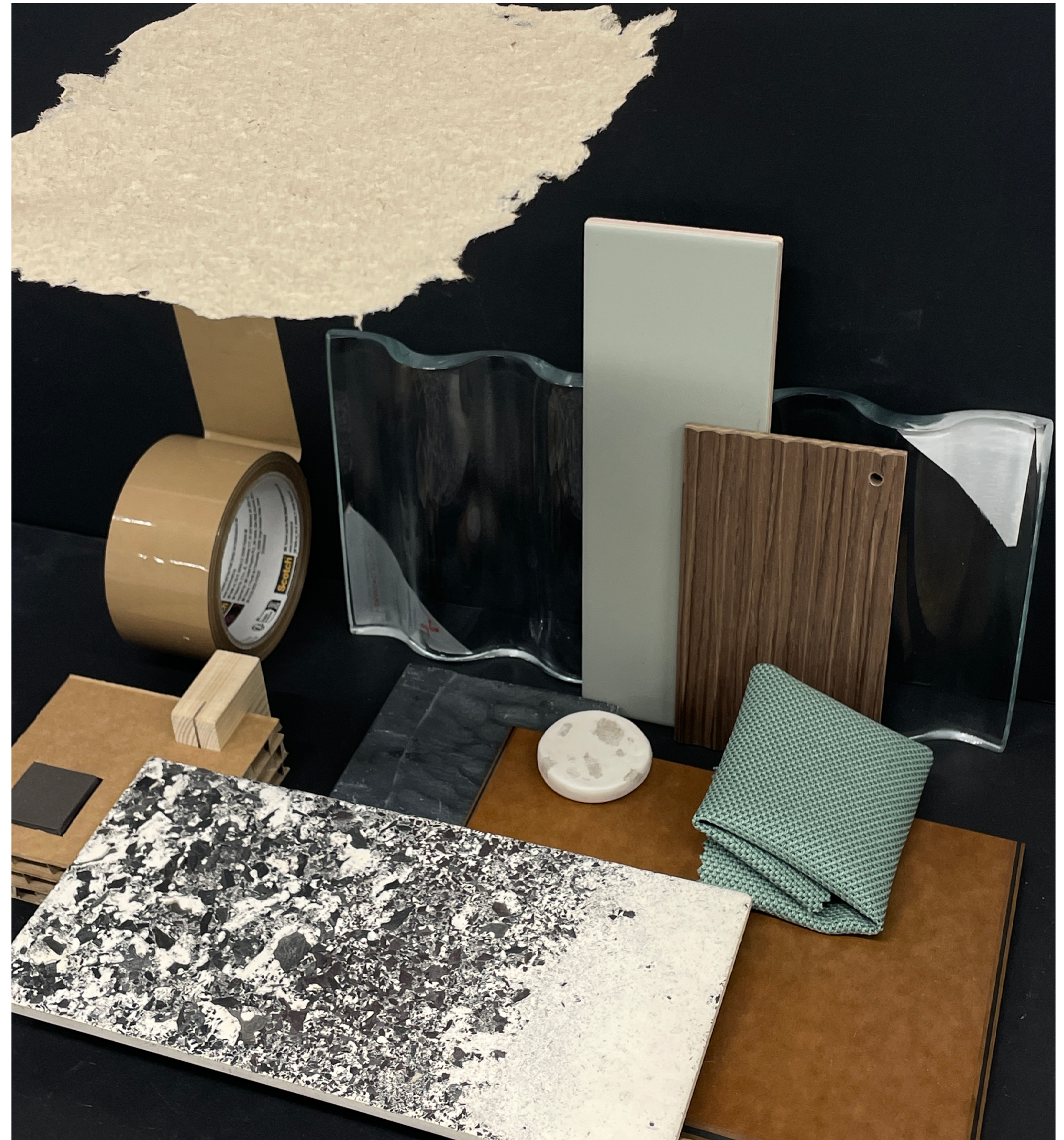




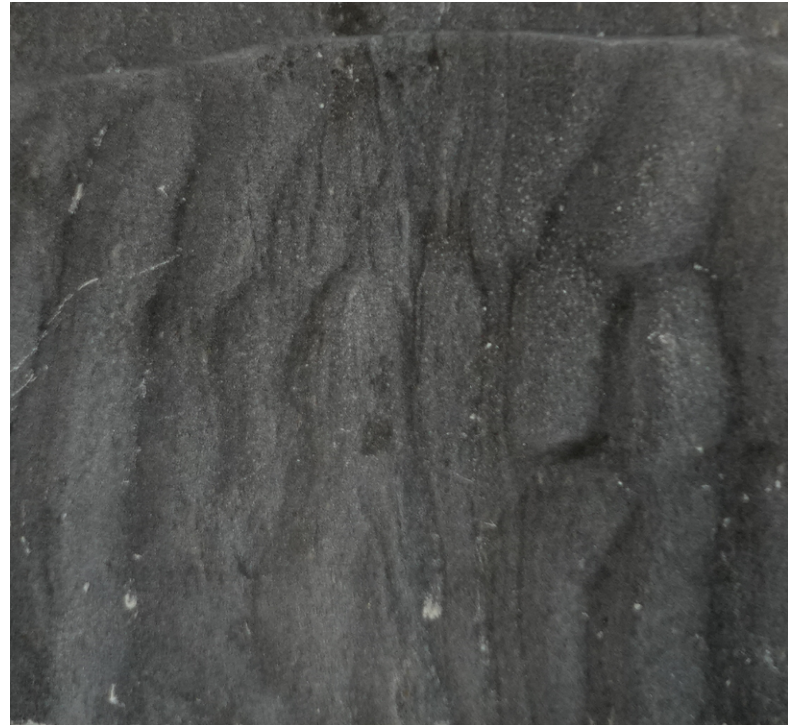
Cardboard Application



Material Palette



- same quality/pattern with corrugated cardboard
- contrast with cardboard (heavy, darker color)
- eco-friendly and recyclable



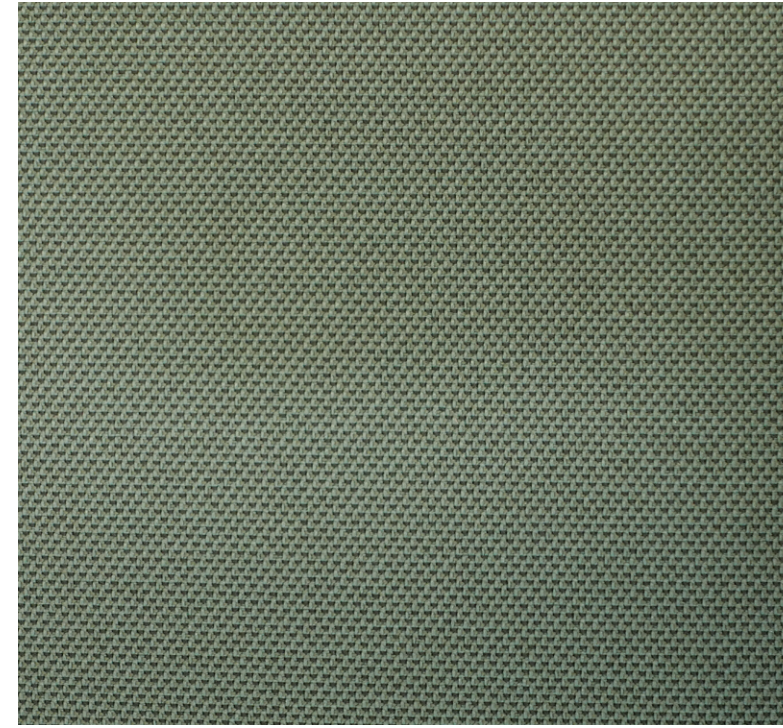
slate



walnut wood



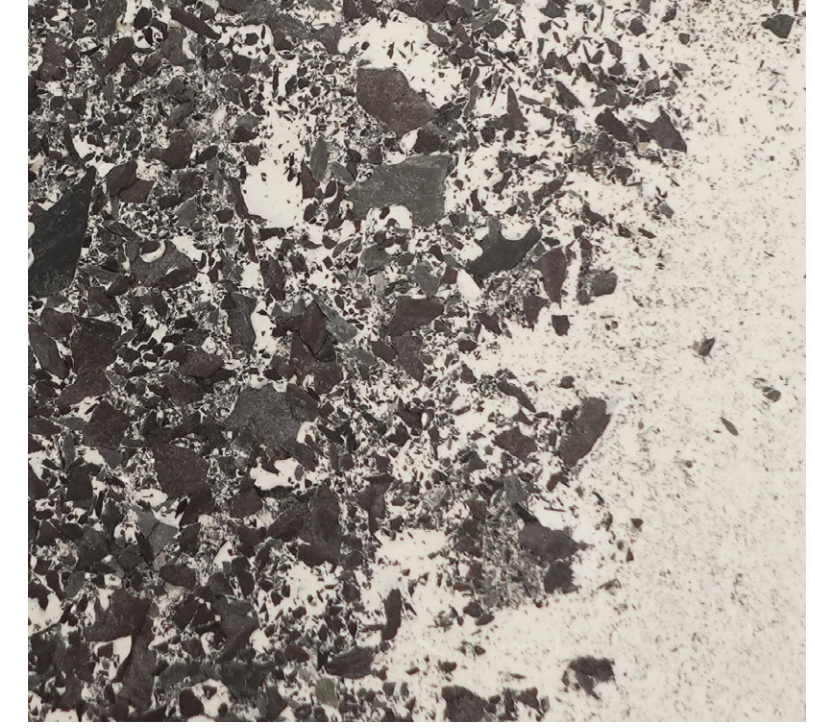
rainlite



recycled polyester fabric



cast glass



slate jesmonite

Model





Thank you