

From Lab to Startup: the Gingerbread House



#### Solution for food waste disposal

Currently, food waste disposal involves CO2 generation and disposal of ashes etc.

Sometimes food waste are used as forage or fertilizer, however the cost involved is not economically attractive enough.



国連世界食糧計画:https://www.wfp.org/foodwaste



COP28: https://www.cop28.com/en/food-and-agriculture

### **Procedure**



Food waste as raw material



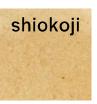
Dry, grind and heat-press



New material created with food waste

































The material is 100% natural origin.

Depending on the food waste used, you can enjoy different color and aroma.



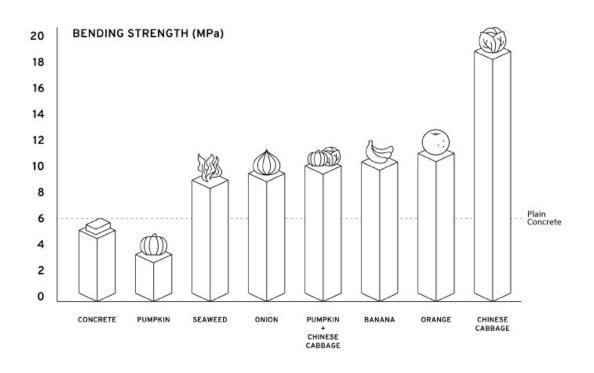








#### Characteristics of fabula's material



#### 4 times stronger than concrete\*

For example, the bending strength of Chinese Cabbages is 4 times stronger than normal concrete. A 5 mm thin plate can bear 30 kg weight. It has a potential to become a construction material in the future.

\*The strength depends on raw materials to be used.

# Why Startup?

2021.3

Graduation

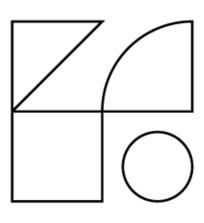
2021.5

Patent application by the University of Tokyo

2021.10

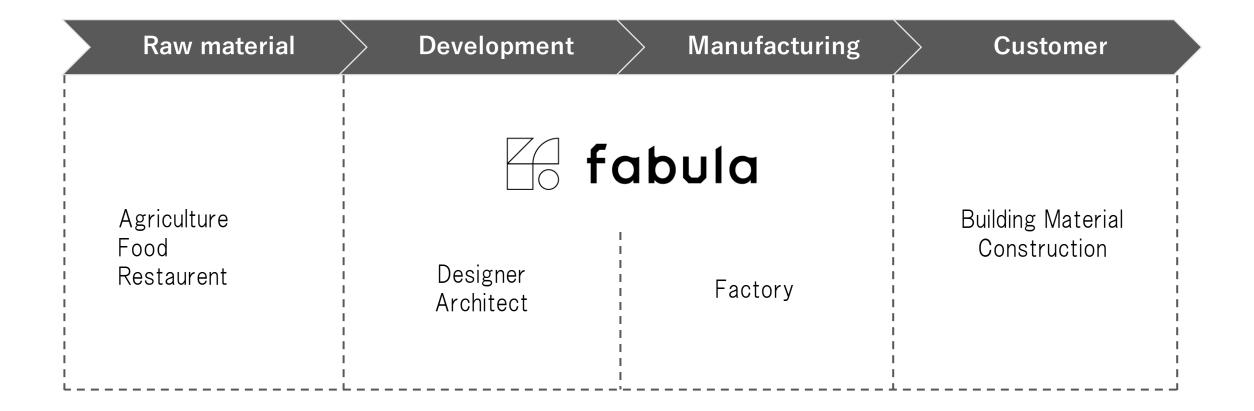
Started up fabula Inc.

-Signed a license agreement with the university





## **Business model**





#### **Assembled Stool**

Row materials: Coffee (seat surface), Chinese cabbage (chair leg)

Size:  $w350mm \times d300mm \times h390mm$ 

Taking advantage of the assembly type feature, raw materials can be changed for each part.

Using local products from the area will give the stool a regional character.









#### Tile

Row materials: Burdock, Chinese

cabbage, Coffee, Bread Size: 300mm square

Tiles are envisioned as paving and decorative material.

Right images: Processing by "Shopbot"

### In 2025

### EXPO2025 Osaka, Kansai, Japan

Our materials will be provided to build the gallery designed by architects "teco".

(its place shown on the map)

https://ysakai.iis.u-tokyo.ac.jp/infokiji/337



## In 2025







kmachida@fabulajp.com