CIRCROP

Let's Farming Circular.

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EXISTING PROBLEMS

Agricultural has always been an important part of human life. The agricultural waste generated after planting can be divided into Biological Agricultural Waste" and "Non-biological Agricultural Waste". According to EU statistics, about 700 million tons of agricultural waste is generated every year. Non-biological Agricultural Waste generally refers to plastic products, if these plastic products are not properly disposed of after planting, it will not only affect the growth of crops but also harm the entire planting environment and human health. Although Biological Agricultural Waste is a substance that can be decomposed naturally, it is not only harmless to the environment but can also be used as a nutrient to help crops grow. So how to convert such a huge waste into useful resources and have a positive impact is a problem that human beings should face and think about.

700 MILLION TONS / PER YEAR

PROTECTION SHELL

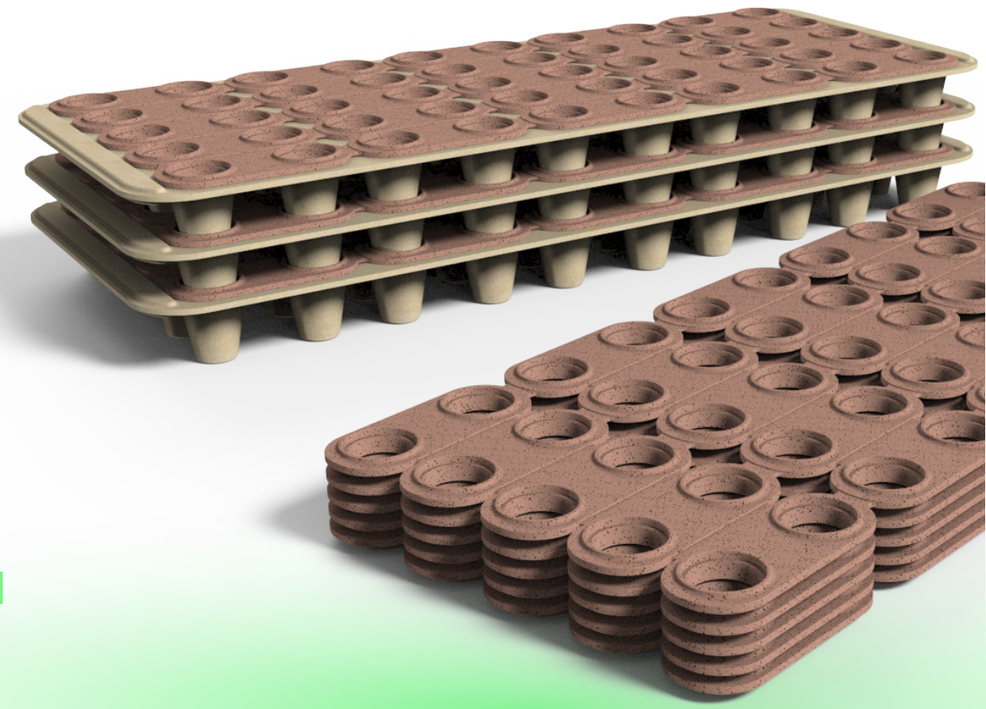
SEEDLING TRAY TYPE A
Soil seedlings

SEEDLING TRAY TYPE B
Green house seedlings

DESIGN INFORMATION

CirCrop is a multi-functional seedling tray made of agricultural waste and recycled pulp. Its hard shell can protect crops from pests and animals in the early stage of growth and causes crop necrosis, and also protects crops from damage during planting by humans, thereby extending the survival of crops. CirCrop is suitable for various planting environments, not only for soil seedlings but also for greenhouse seedlings. And its modular design is more convenient for stacking, storage, and access. CriCrop not only decomposes naturally in the soil after planting but also can be converted into nutrients to help crops grow, thereby achieving a closed-loop and creating zero waste.

EACH CAN BE USED ALONE OR IN COMBINATION



USING PROCESS

STEP 1
Choose a suitable seedling tray according to the field.

STEP 2
Put in crop protection shell.

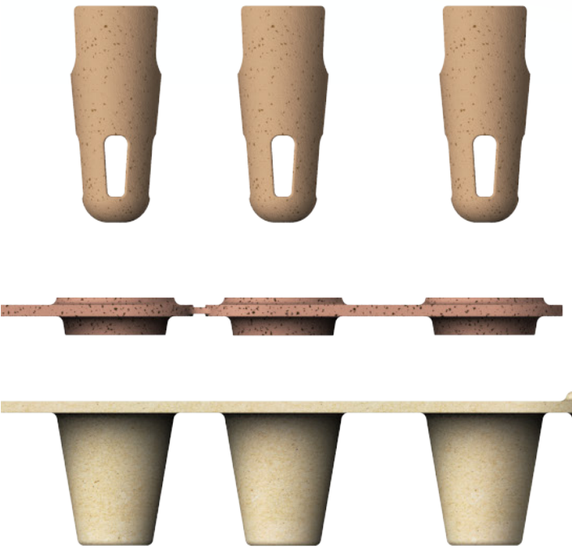
STEP 3
Carry out the first filling.

STEP 4
Poke holes in each seedling hole.

STEP 5
Inject the seeds of the crops into the seedling holes.

STEP 6
Carry out a second fill to cover the seeds.

MATERIAL IMFPRMATION



STRAW FIBER + RICE HUSK

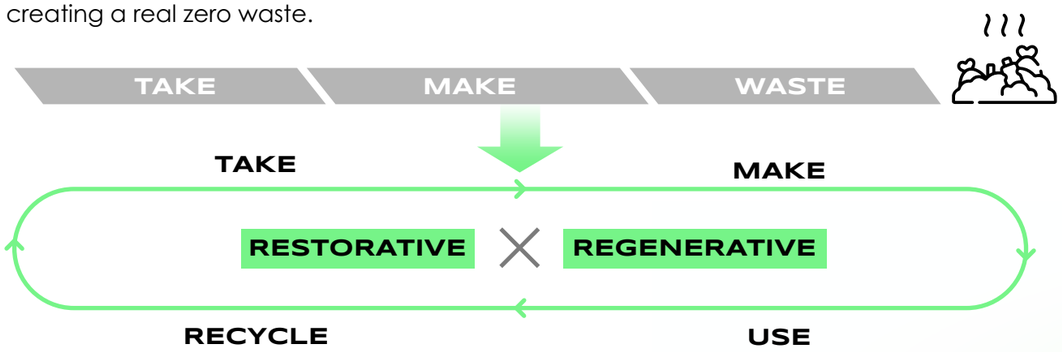
Straw Fibers and Rice Husk can not only provide soil organic after treatment, and the nutrients released after their decomposition can supply soil nutrients, but also have the function of regulating soil temperature, which can improve the growth environment of crop roots and enhance crop growth.

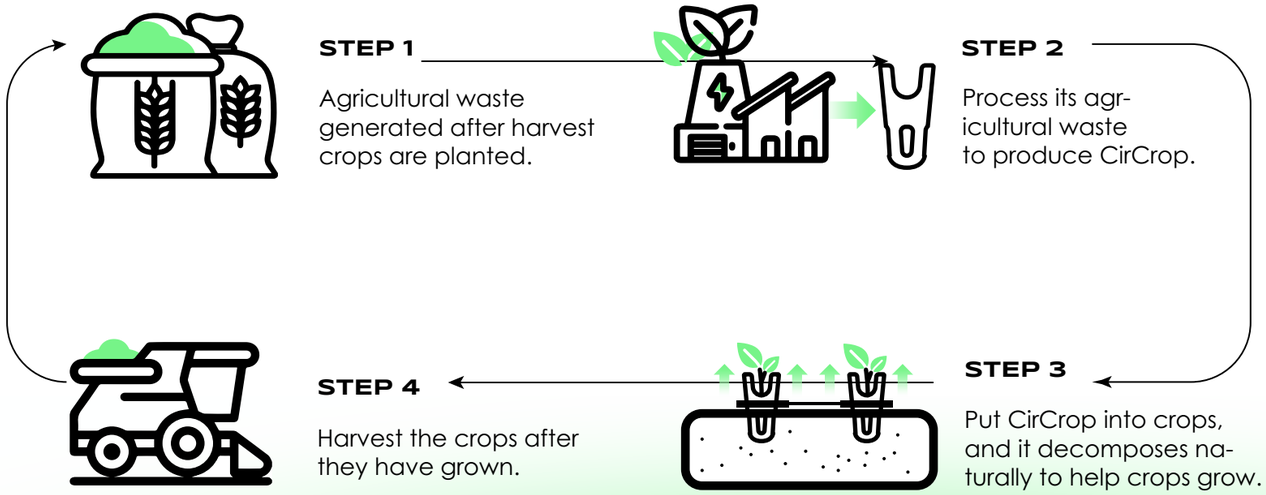
RECYCLED PULP + STRAW FIBER

Recycled pulp can not only decompose naturally in the soil, but also increase its stability and durability when combined with straw fibers, thereby increasing the service life of the product.

CIRCULAR PROCESS

The existing linear economy is mostly "Take", "Make", and finally discarding and causing "Waste" and pollution. CriCrop adds consideration to the natural environment in this economic model, thereby creating a more "Restorative" and "Regenerative". Circular economy, and through such a closed cycle system, the waste can be recycled indefinitely, creating a real zero waste.





STEP 1
Agricultural waste generated after harvest crops are planted.

STEP 2
Process its agricultural waste to produce CirCrop.

STEP 3
Put CirCrop into crops, and it decomposes naturally to help crops grow.

STEP 4
Harvest the crops after they have grown.

PRODUCT FEATURE

EASY PLANTING

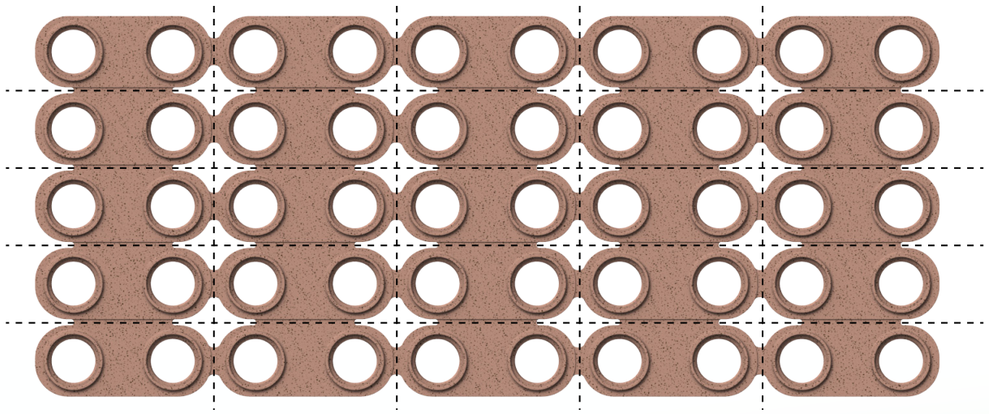
The using method and using process of CirCrop are the same as those of the existing seedling trays, so users can get started quickly without much learning. And consideringthat it needs to be handled more often, a raised part is provided on the seedling tray to facilitate the user to grasp.

MODULAR DESIGN

Through the modular design, CirCrop not only makes it easy for users to stack and store, but users can also replace the seedling trays according to different planting fields or planting needs, so that CirCrop can meet various planting environments.

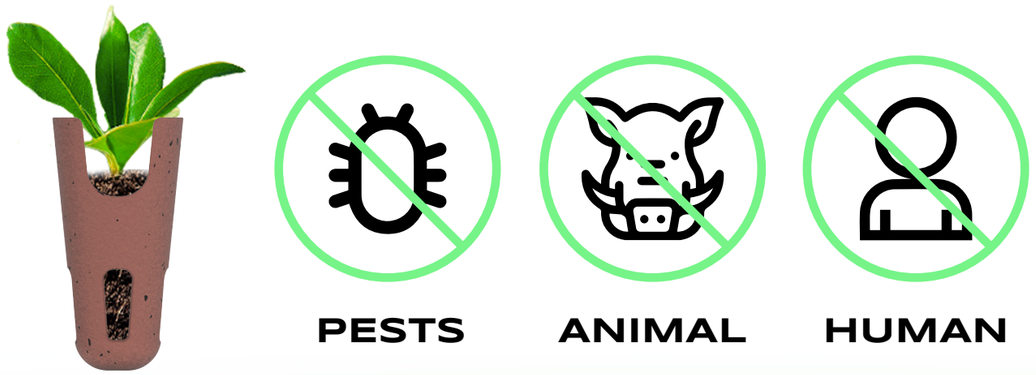
GOOD APPLICABILITY

When TYPE A used alone, it can be disassembled through a broken line to adapt to different planting fields. For example: irregular terrain.



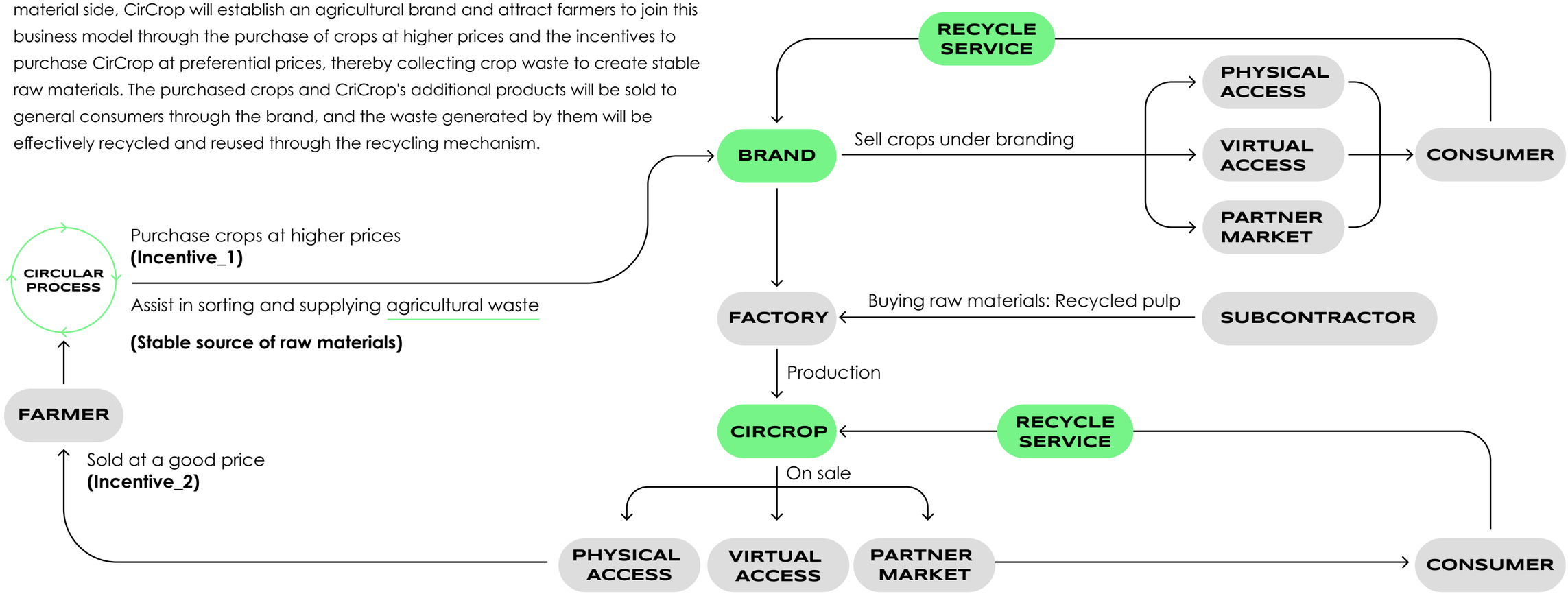
PROTECTION SHELL

The shell design of CirCrop can protect crops from necrosis caused by pests and animals during seedling breeding, and can also protect crops from artificial damage during artificial transplantation, thereby prolonging the survival chance of crops.



BUSINESS MODEL

CirCrop's business model focuses on creating zero waste, thus creating a closed-loop as much as possible, both on the consumer side and on the raw material side. On the raw material side, CirCrop will establish an agricultural brand and attract farmers to join this business model through the purchase of crops at higher prices and the incentives to purchase CirCrop at preferential prices, thereby collecting crop waste to create stable raw materials. The purchased crops and CriCrop's additional products will be sold to general consumers through the brand, and the waste generated by them will be effectively recycled and reused through the recycling mechanism.



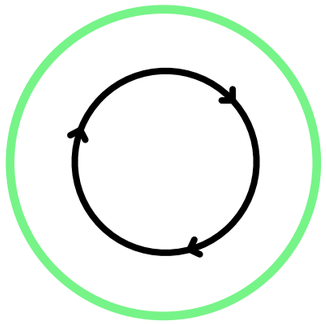
EXPECT RESULT

ENVIRONMENT FRIENDLY

Inhibit the environmental pollution caused by non-biological agricultural waste.

NATURAL RESOURCES

Efficient treatment and utilization of biological agricultural waste.

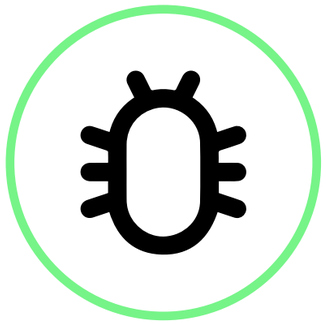


CLOSE-LOOP

Create a closed loop of agriculture.

REDUCE PESTICIDES

Reduce pesticide use and help crops grow.



INHIBIT PESTS

Prevents threats such as pests and increases the chances of crop survival.