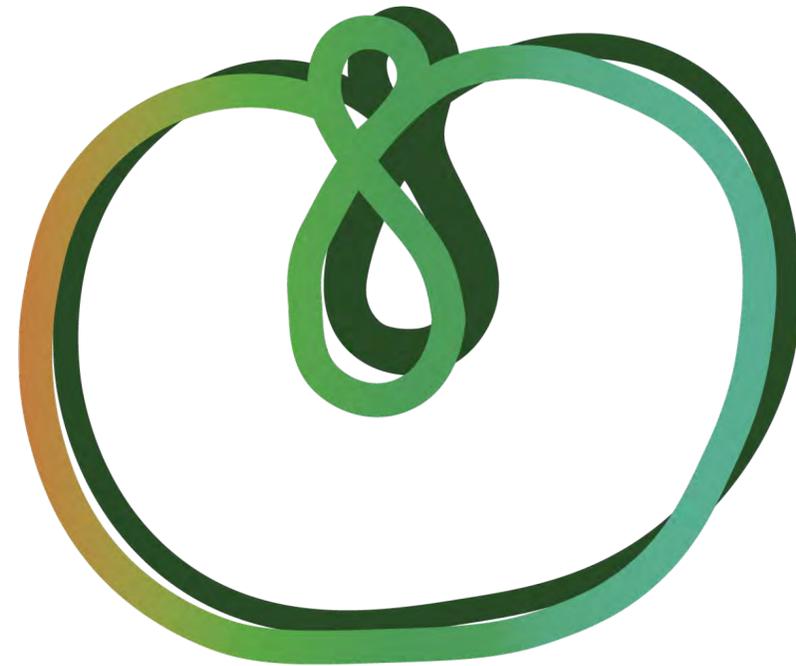




**I WANT U
TO FARM**

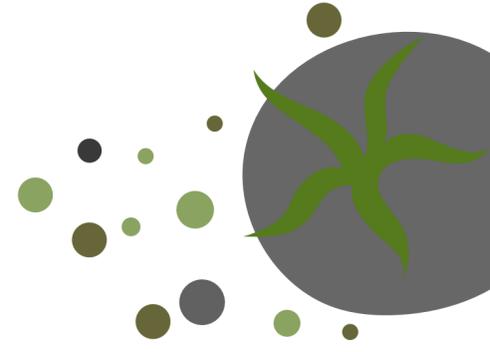


U-FARM

Team Fenouil

Alina Panzetti, Clément Dumas, Greta Cappellini,
Fanny Rabaud, Mikey Baptista, Yassine Kalaa

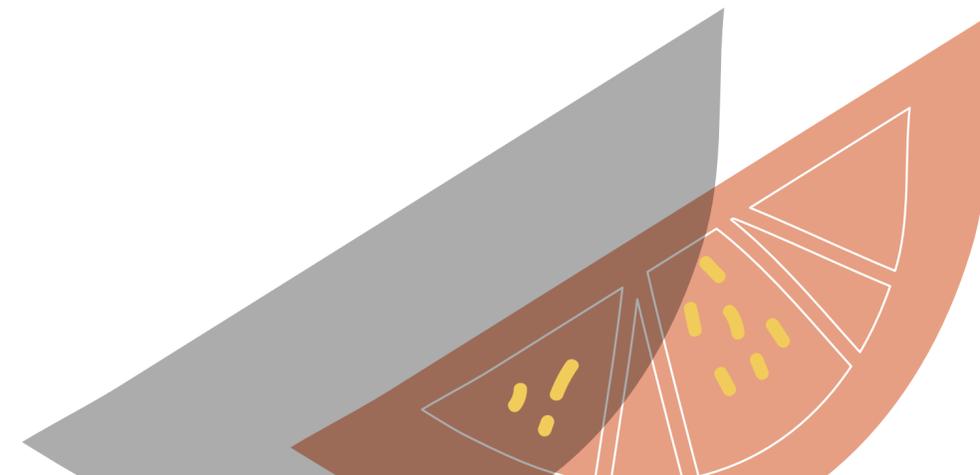
Macro-theme



What is agrobiodiversity ?

The agrobiodiversity encompasses many types of biological resources linked to the agriculture :

- **Genetic resources**
- **Edible plants and crops**
- **Livestock**
- **Soil organisms**
- **Agroecosystem**
- **Wild resources**



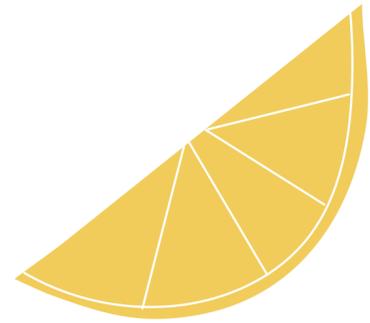
Topic

Community agriculture

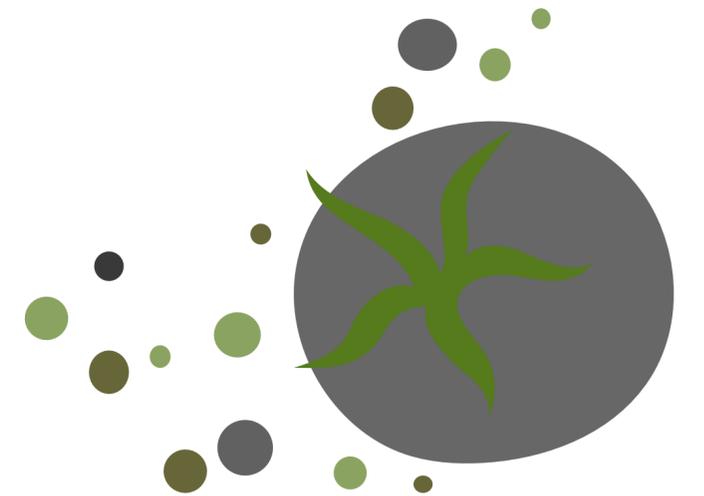
- **Farm Land shared** between several people
- **Community Support**
- **Knowledge** and techniques **share** between farmers of **different generations**
- Plantation of **different species** of produce
- Possibility for more local markets and exhibitions (showcase crops)



Vision



In 2032, we will strive for **autosufficiency** and **resilience**,
for **agriculture communities**
to create a respectful mindset for
biodiversity



Scenario building

Focal question How will agricultural communities be auto-sufficient and united against future difficulties, like lack of resources?

Low amount of resources ————— | ————— High amount of resources

Urban community ————— | ————— Rural community



Urban community

Co-co-community



Pro(me)tea



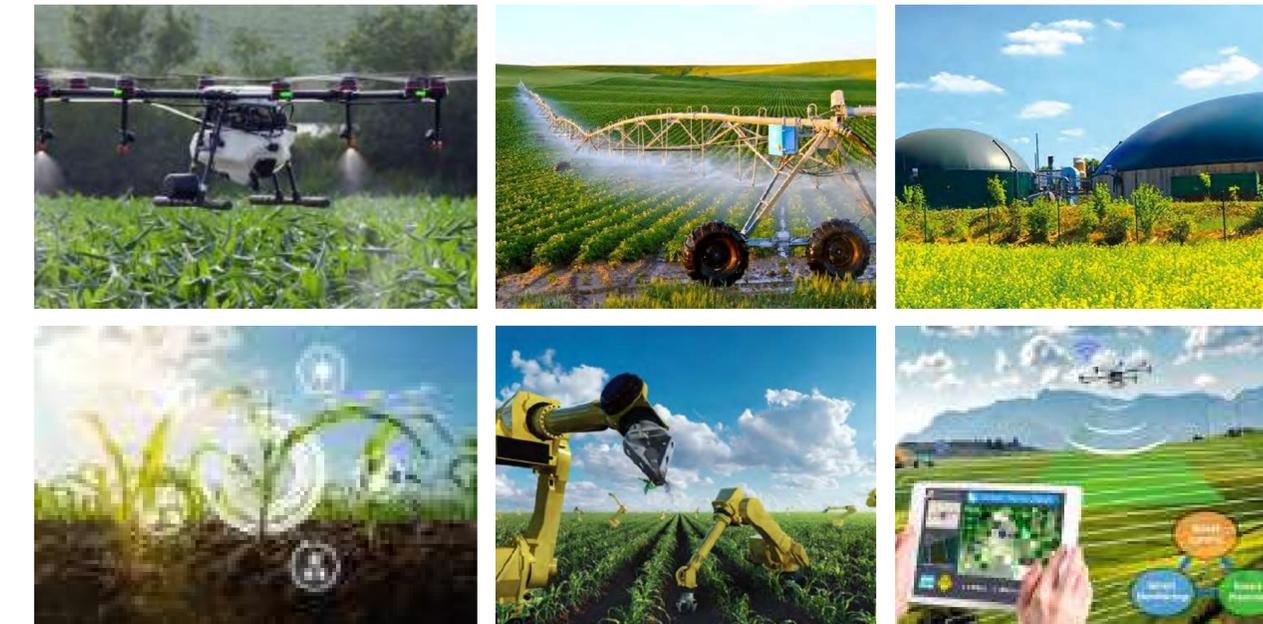
Low amount of resources

High amount of resources



Demeter's field

Agro-valley



Rural community

Pro(me)tea

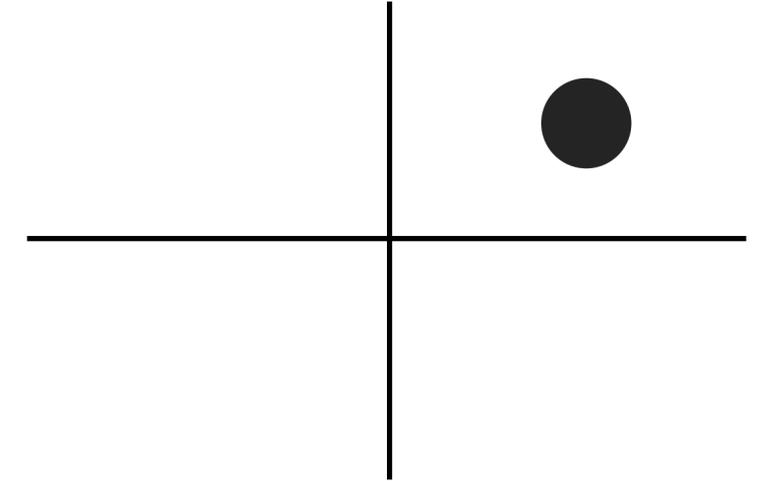
**agro-biodiversity is
applied on small scale**



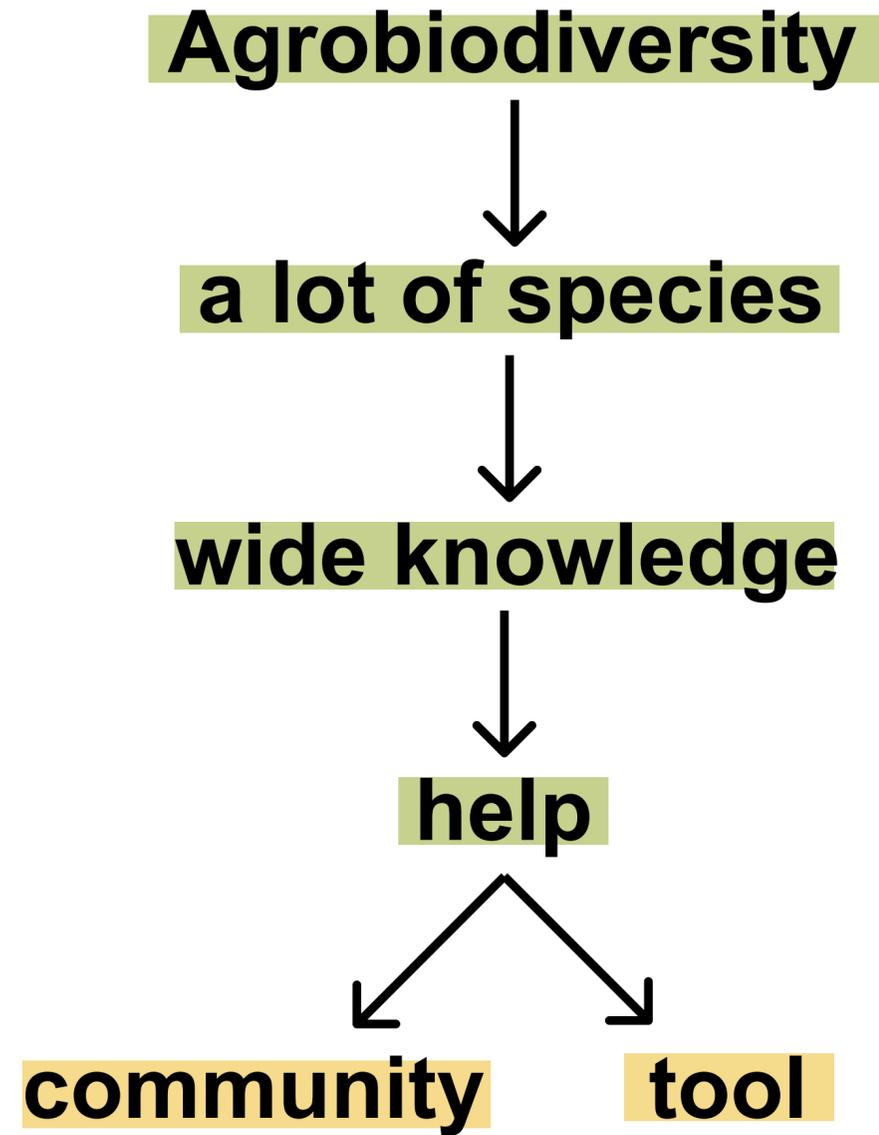
**efficiency
high-tech solutions**



**hydroponics
precision agriculture**



Needs identified



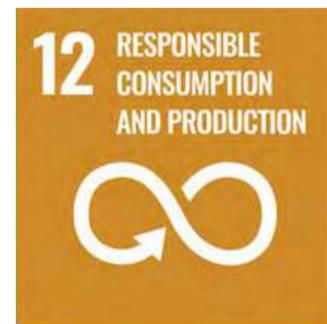
Start up

SafetyNet
TECHNOLOGIES



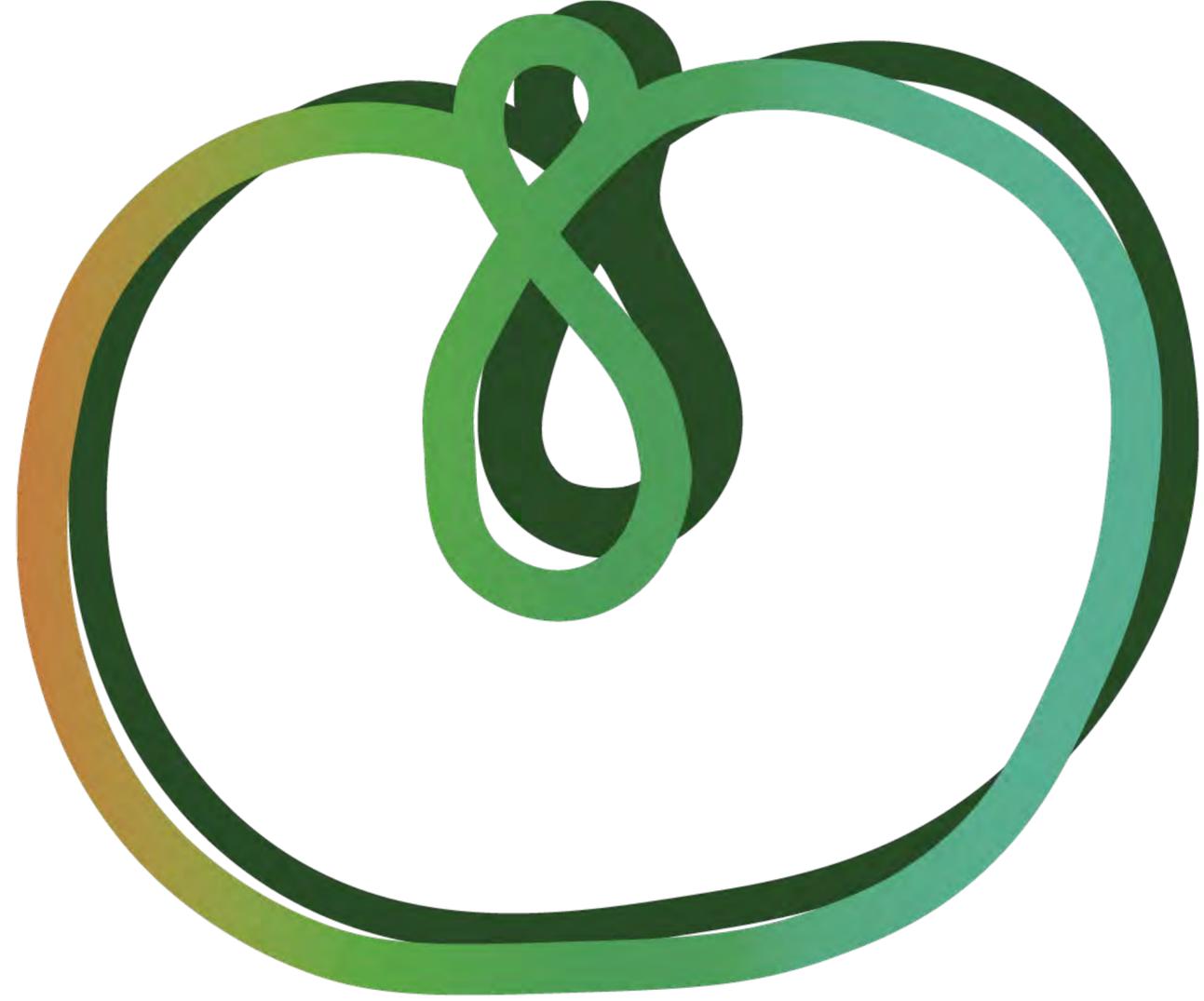
Vision A world where oceans and people thrive together

Mission Create tools that can help fishermen in improving their skill and using precision fishing



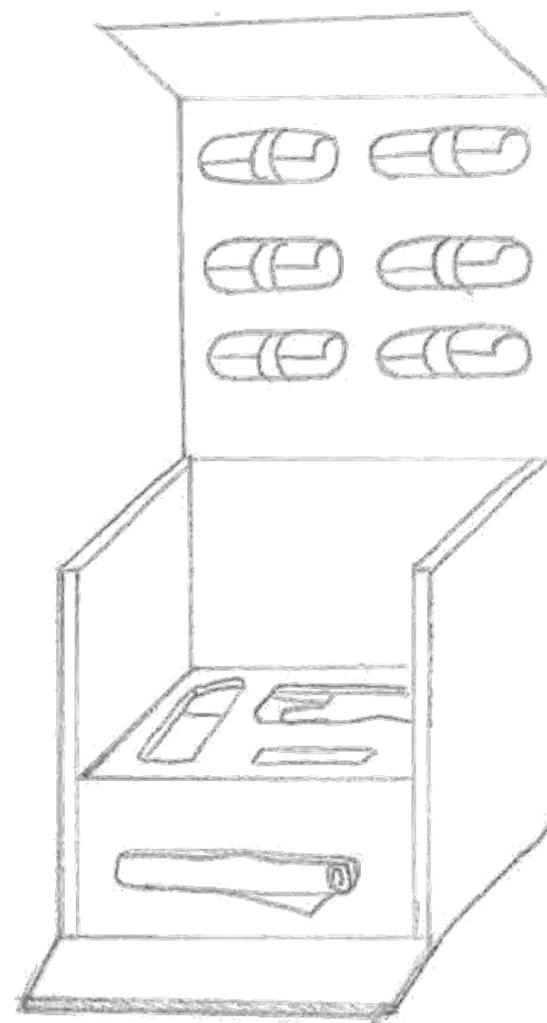
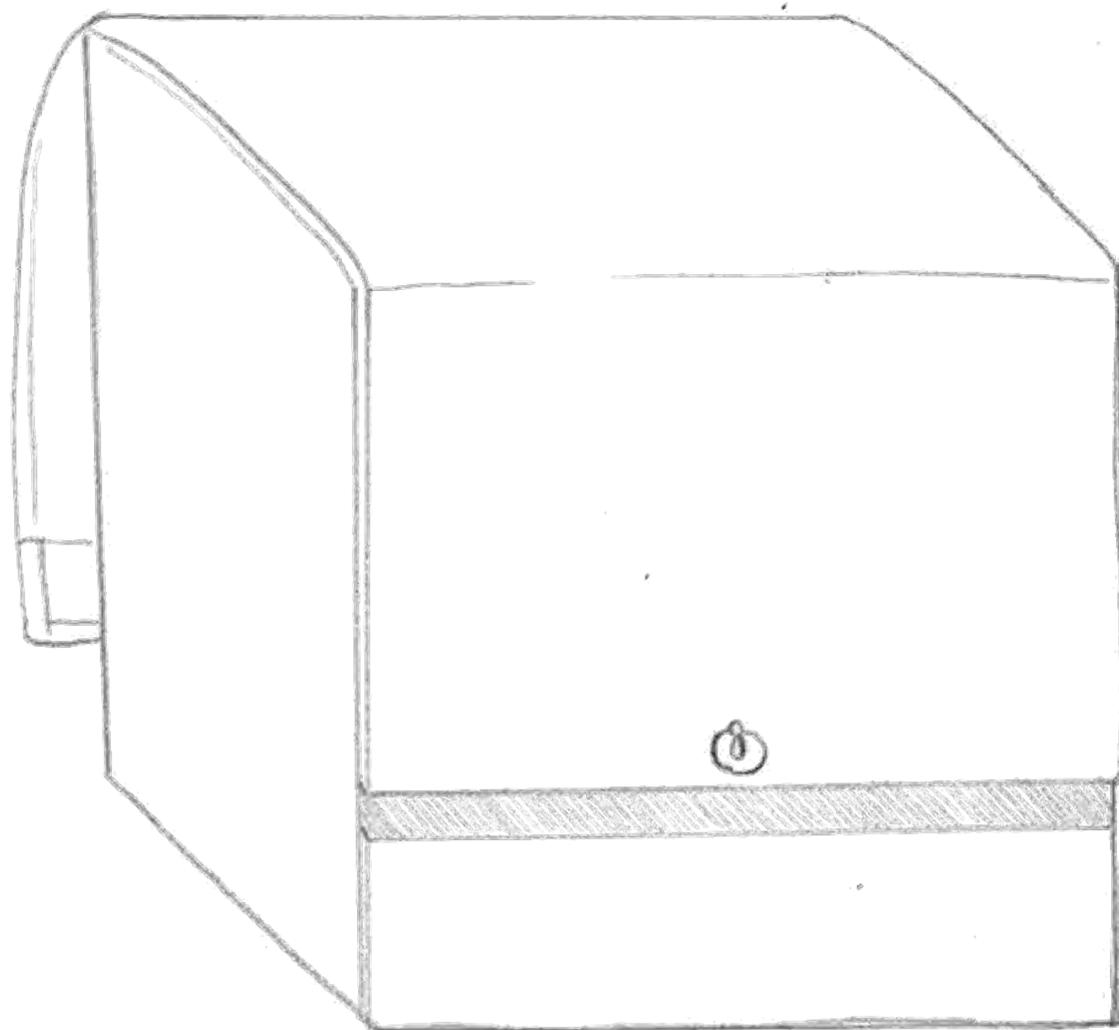


FUTURE
TIME
U-Farm



U-FARM

Toolkit for agro-biodiversity



Concept

- Agrobiodiversity **tool**
- Many seeds of **different varieties** are present in the **toolkit**
- The user can therefore **choose** the one most suited to his needs
- The **U-Platform** can help the user by giving many **informations** on the seeds

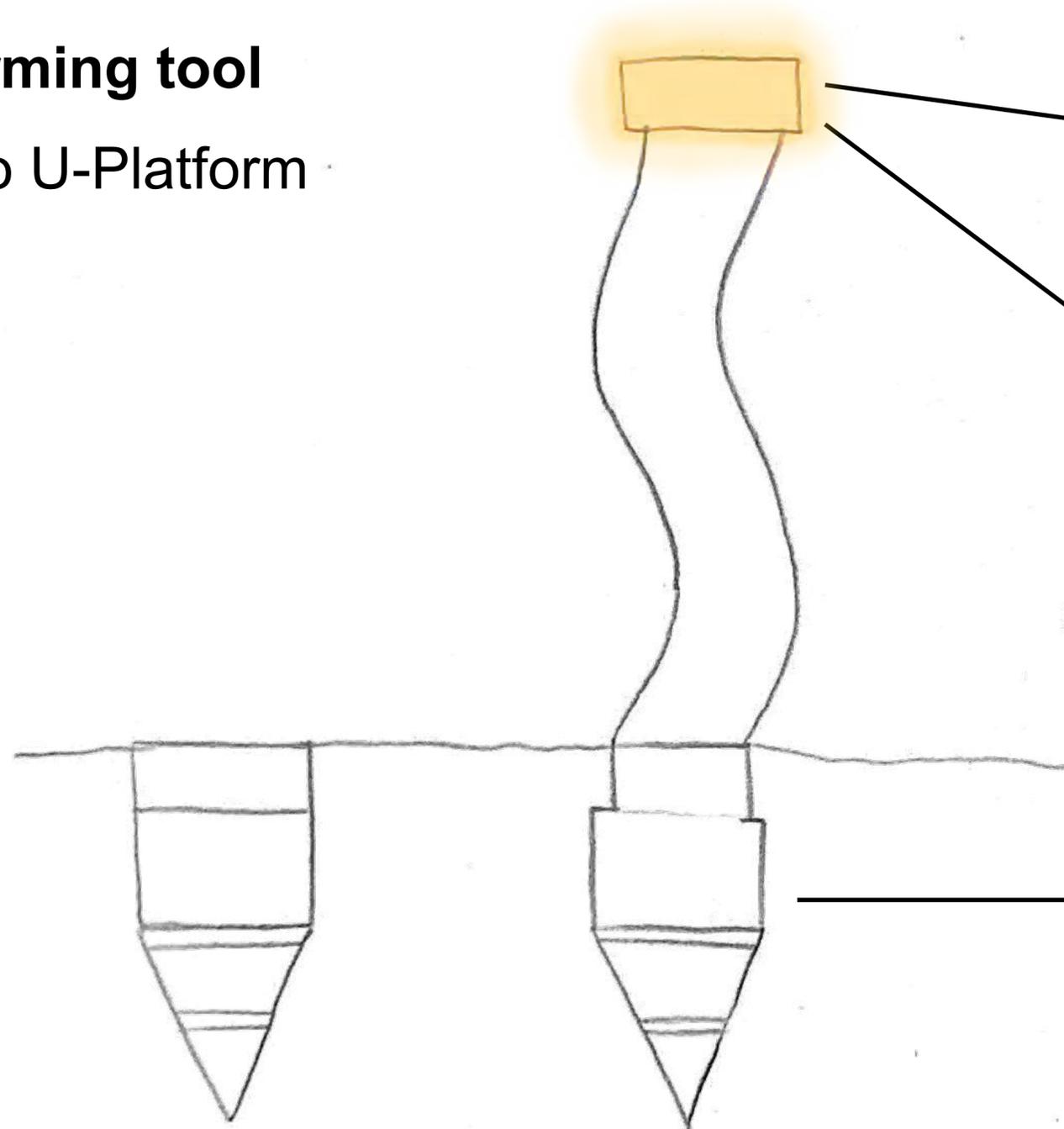
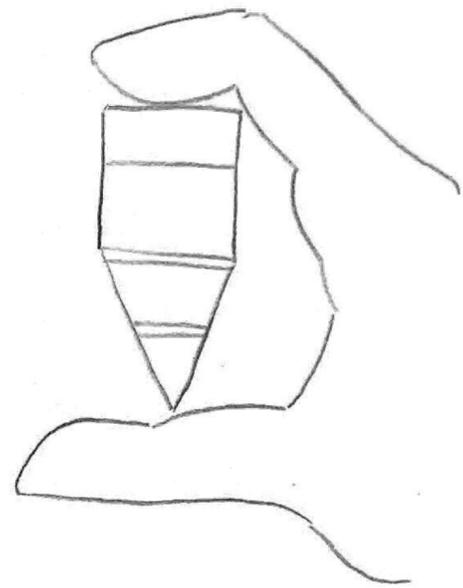


Starter seeds

Concept

- Precision farming tool
- Connected to U-Platform

U-PILL



“CAP”
Outdoor weather conditions sensors

- temperature
- humidity

RGB LED to give visual information to user

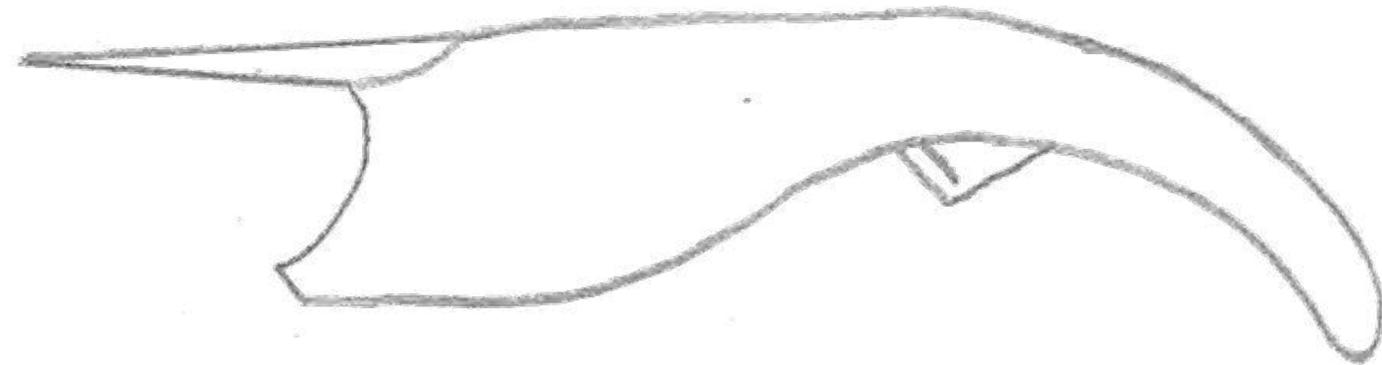
“PILL”
contains sensors for soil parameters:

- ph
- humidity

Concept

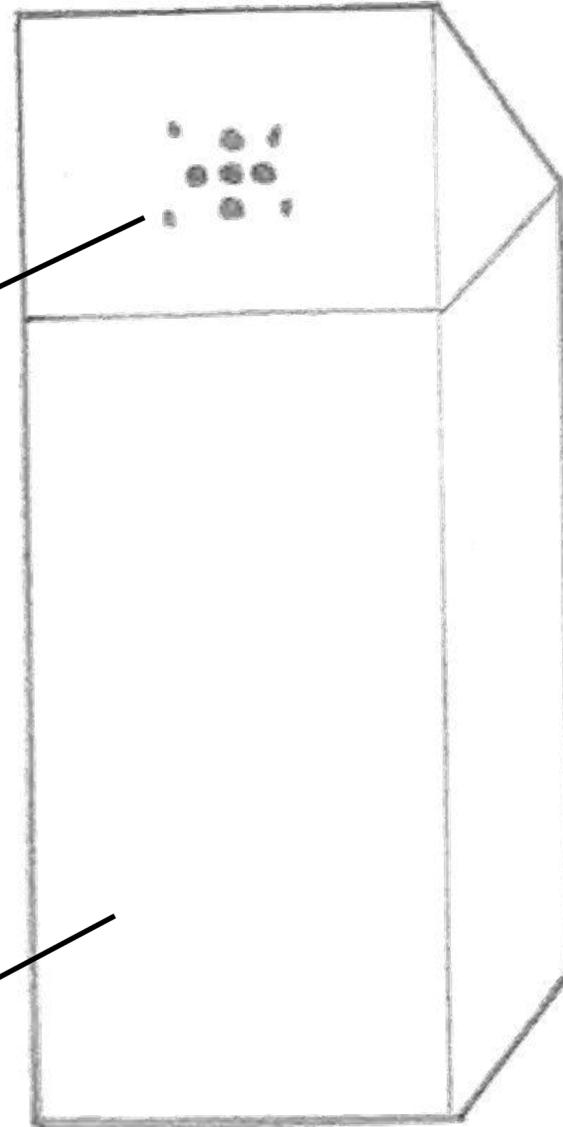
U-Refractometer

- **Precision farming tool**
- **Digital measure** the sugar level of a fruit or vegetable
- **Connected** to U-Platform
- The platform can give you **advice** on harvesting



Concept

- Precision farming tool
- A reactive substance is sprayed on the plant
- This spray recognises the disease or fungus in the plant
- The platform can give you **advice** on the treatment to apply by taking a picture of the leaf



Disease detector

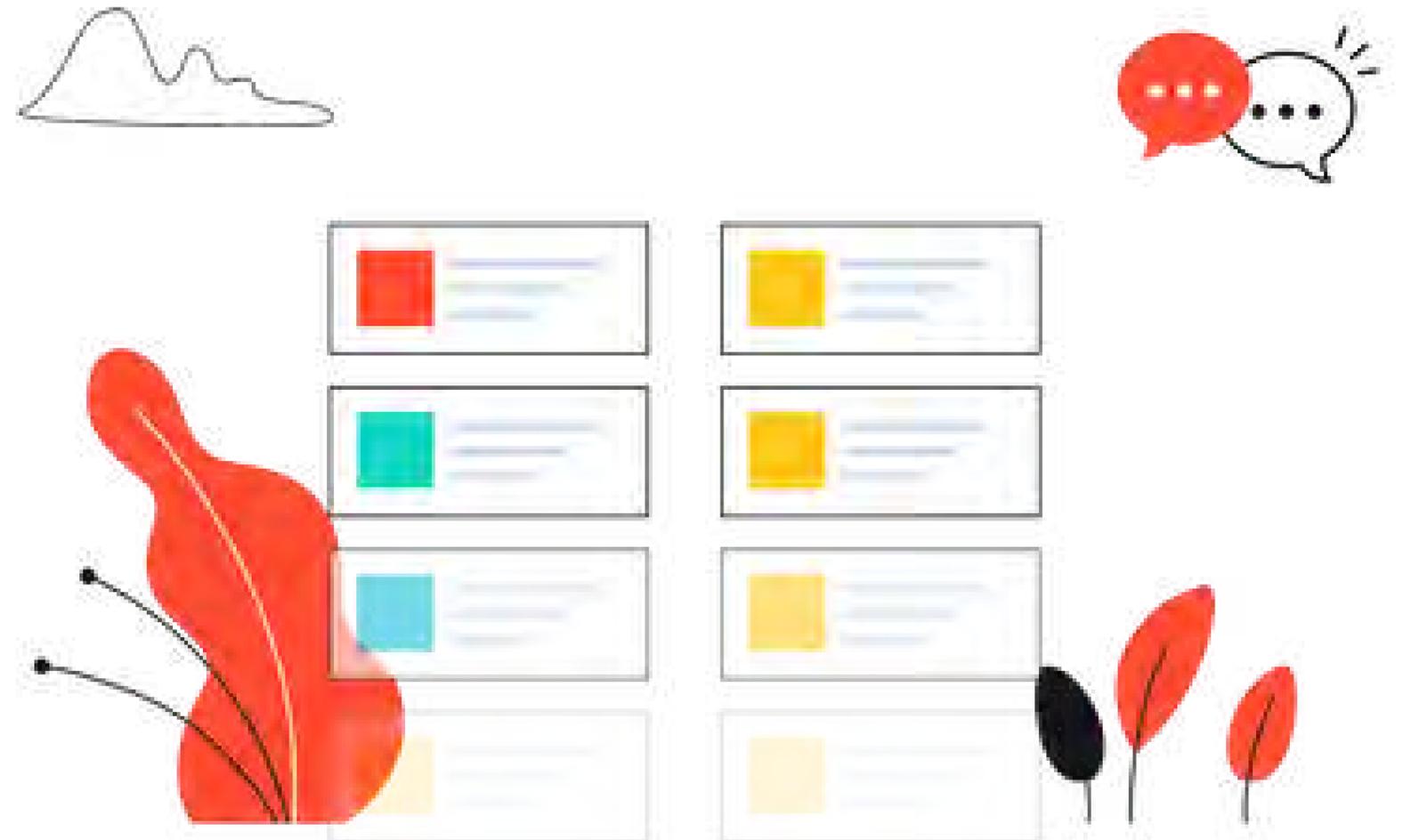


The diagnosis is indicated by a change in the colour of the leaf

U-Platform

All the **data collected** by the U-Pill, the U-Refractometer and the U-Detector, like the **growing status** of the plants, their **well-being** and the state of fruit ripening is recorded and managed within a single platform.

This platform collects data on an **database**, available **online** for all the U-Farmers.



Agrobiodiversity archive

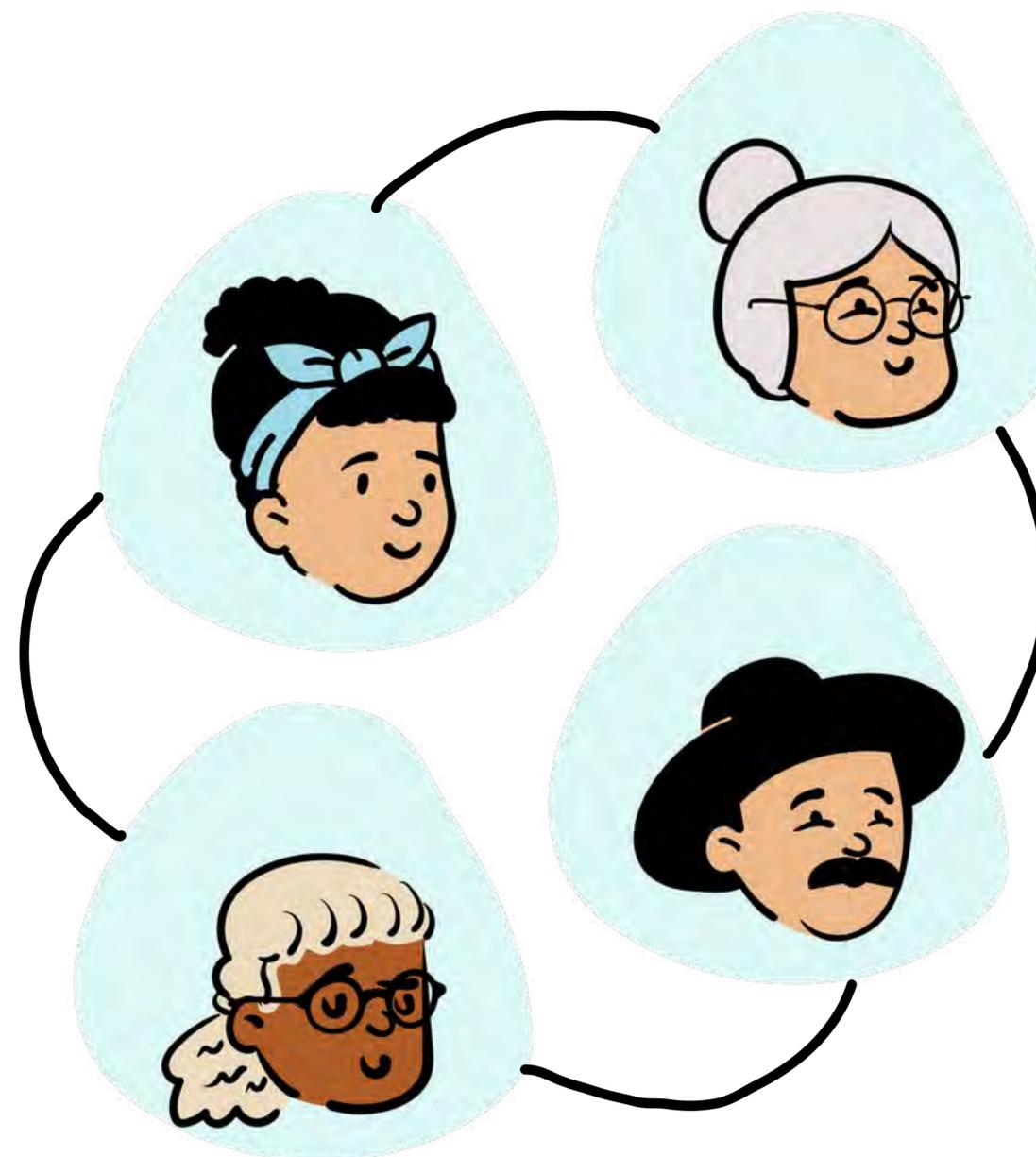
The **U-Platform** also serves as an online **archive of agrobiodiversity**: here, urban farmers can discover **new plant species**, understand which ones are **missing** in their area, and integrate them.



Community

The U-Platform is the place where the **urban farming community** can meet and exchange cultivation tips.

Via a geographic location system, it is possible to view other U-Farmers in the vicinity and check the **level of agrobiodiversity** in the area.



Mentoring

The platform is also the place where **experienced** and older **growers** can guide and **help newcomers** take their first steps into urban cultivation.

New farmers can choose to become part of a **mentoring project**, and be followed by their senior mentor during all phases of the start-up of the urban garden.



Thank you!

