Into an AI agricultural future

"A window for a green world"

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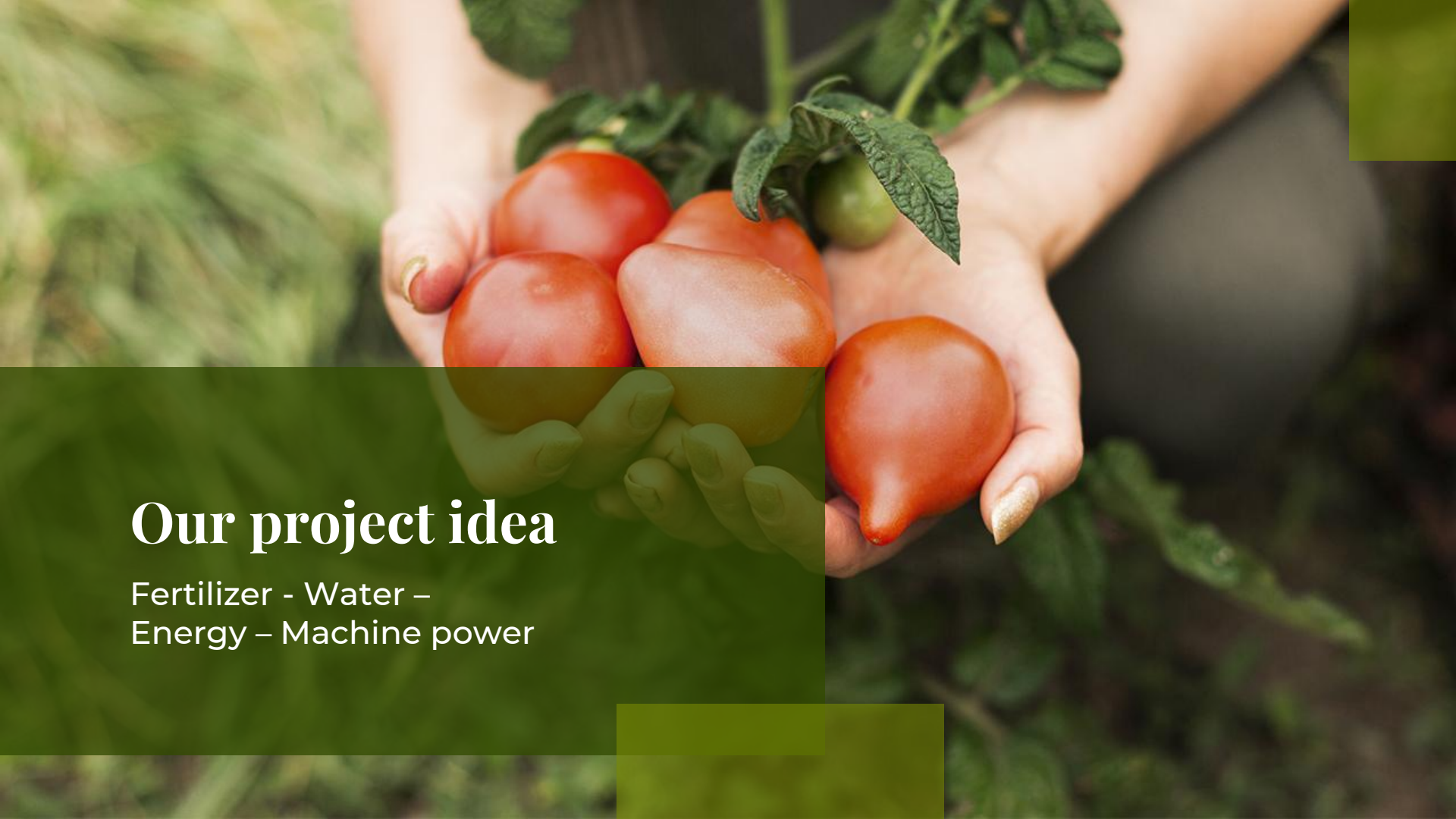
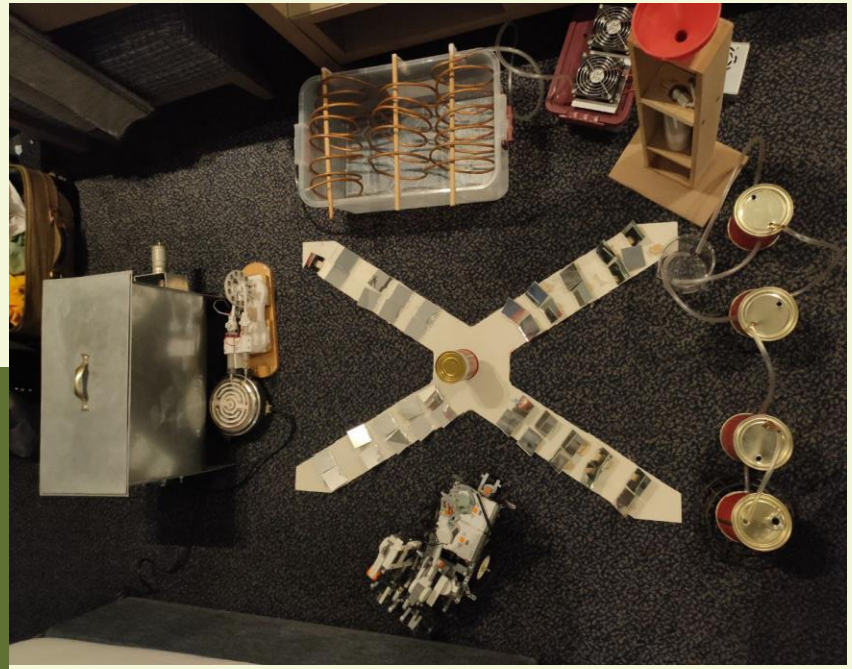
Problem Defining

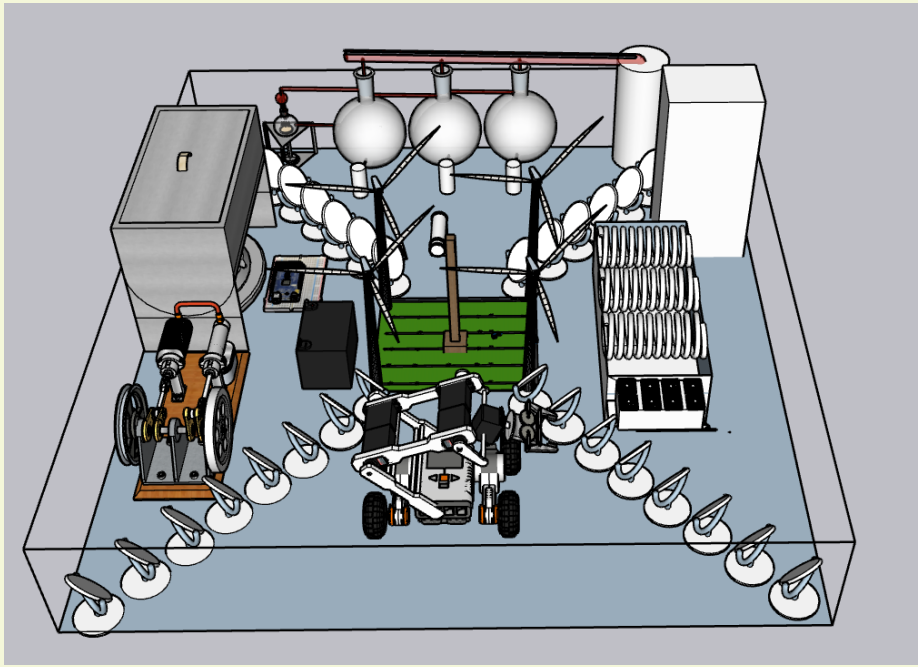


Our project idea

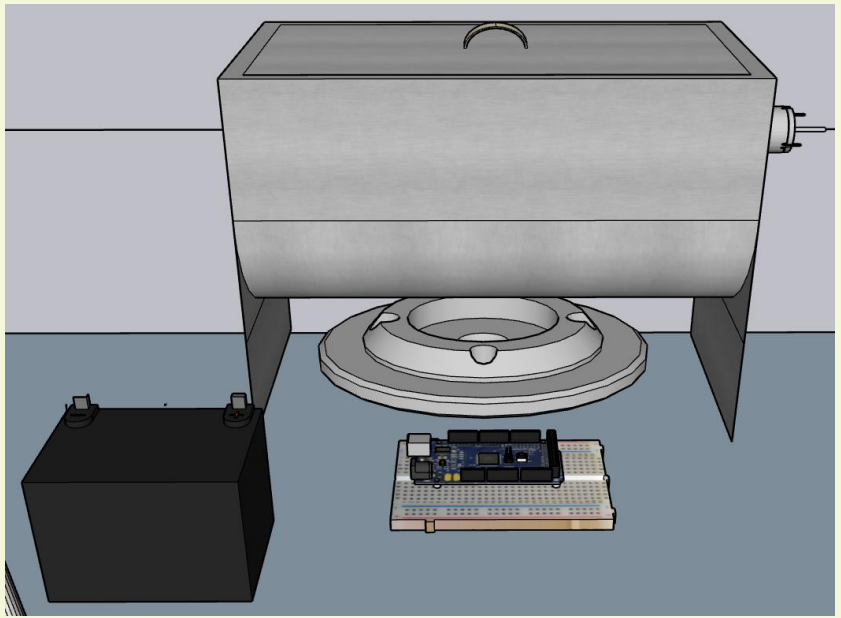
Fertilizer - Water –
Energy – Machine power

Project Design

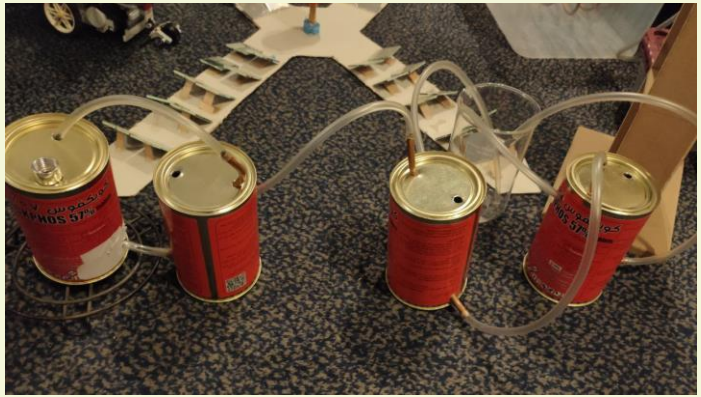


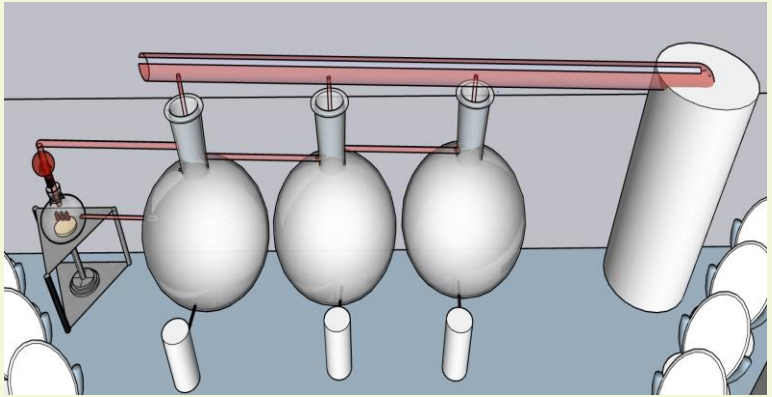


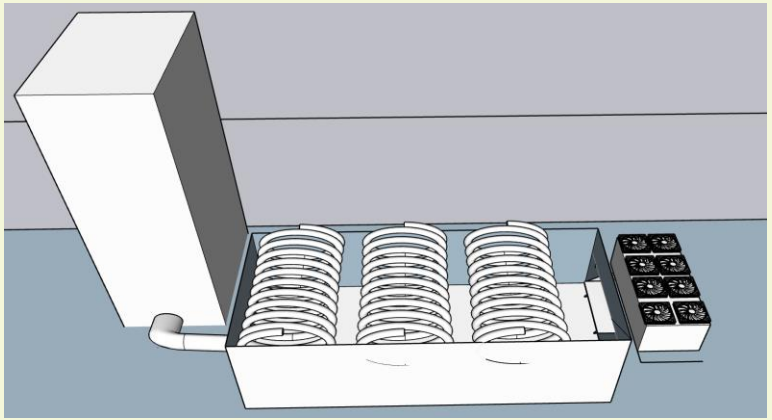
Food Composter



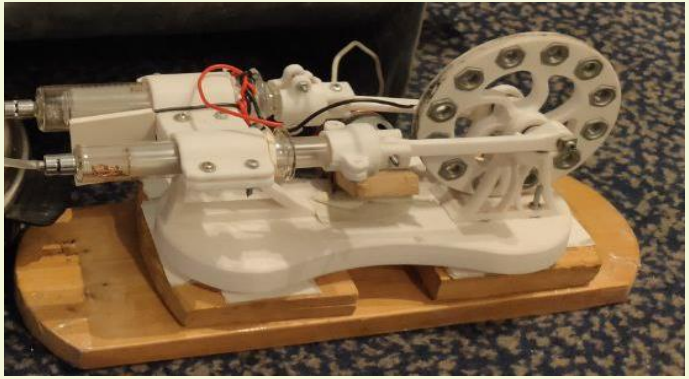
Water resources systems

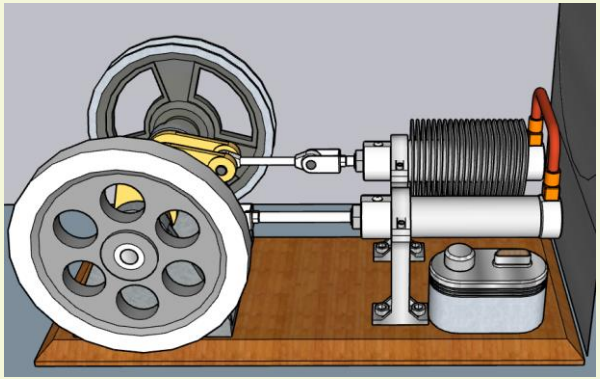


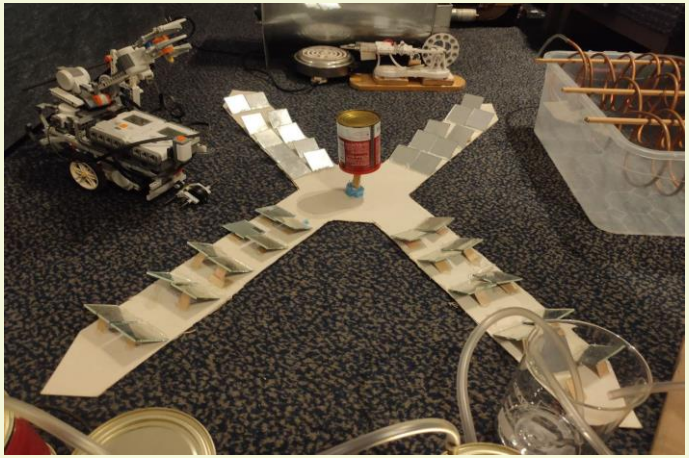


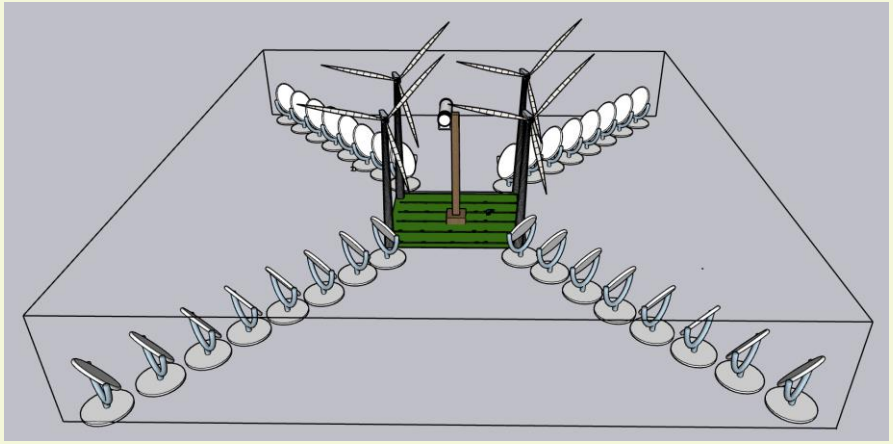


Energy resources systems

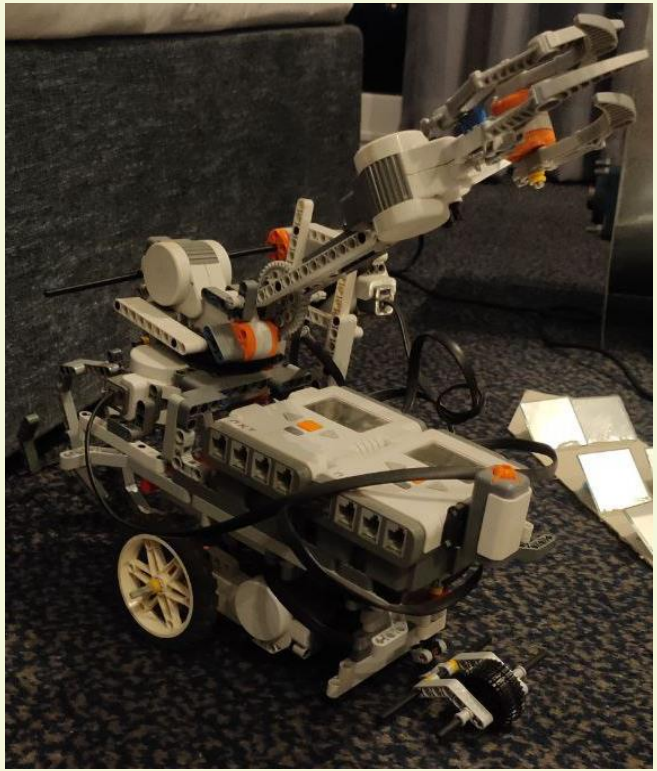


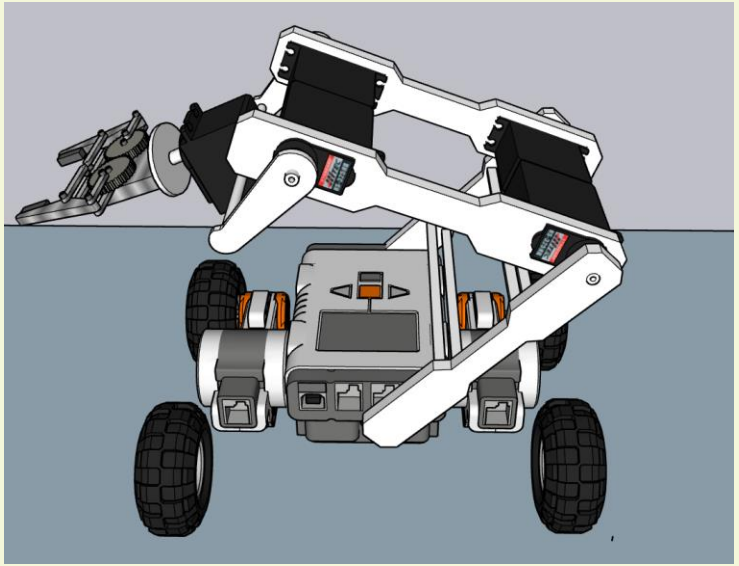






Agricultural AI robot



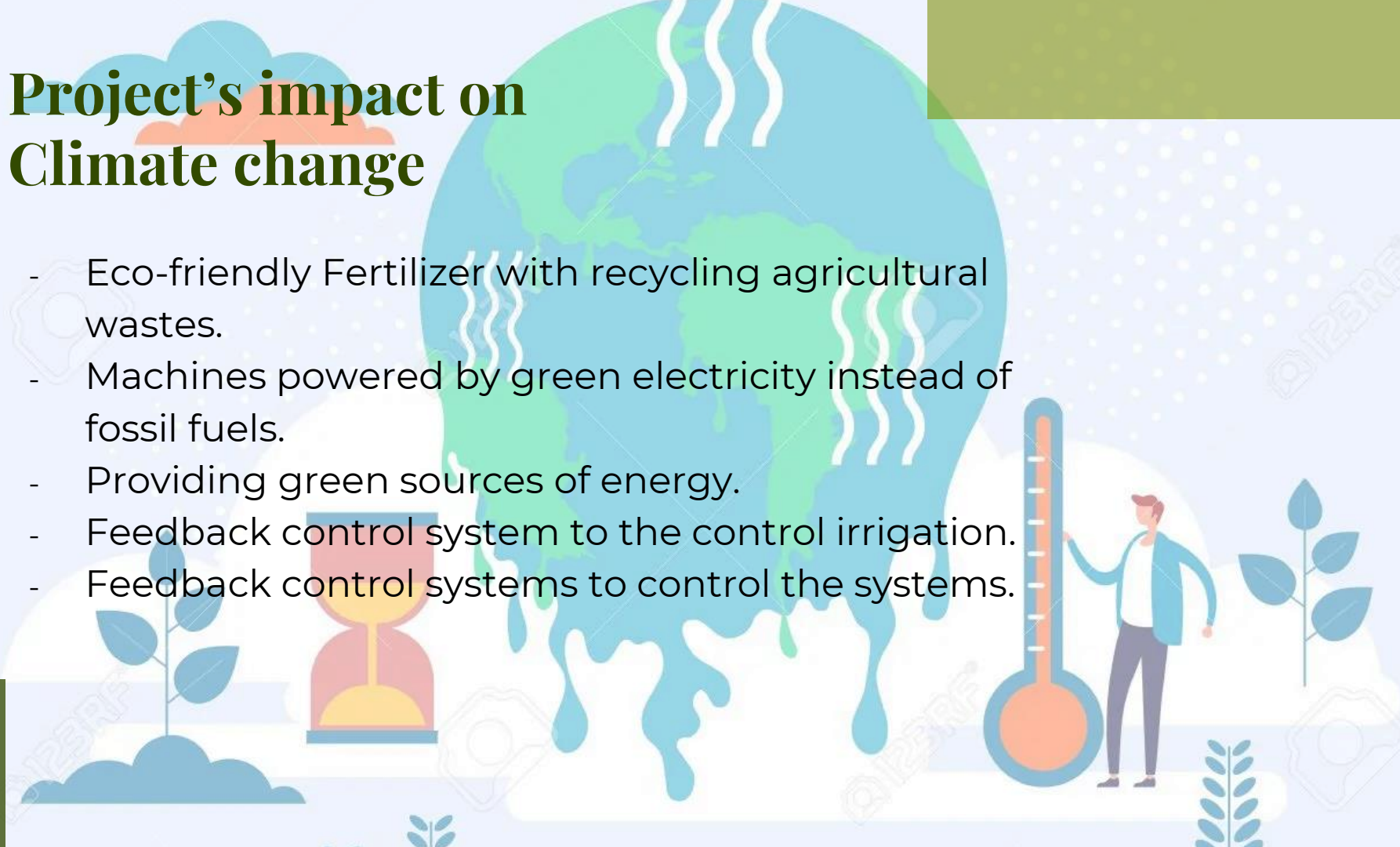


Mobile application & Feedback control system

- Providing dataset from the sensors to make graph database.
- Providing recommendations according to the water amount level.
- Marketing the project by discussing all the explanation of all systems.

Project's impact on Climate change

- Eco-friendly Fertilizer with recycling agricultural wastes.
- Machines powered by green electricity instead of fossil fuels.
- Providing green sources of energy.
- Feedback control system to the control irrigation.
- Feedback control systems to control the systems.



Business plan

- Food Composter
- CSP system

Business plan

Food composter

- 8,000 construction budget
- 1 ton price will be 1590 L.E. compared with regular price which is 4700.

CSP system

- 400,000 construction budget
- Efficiency to 45% compared with solar cells efficiency which is 15%.

Farmer persona

AGE
25-60

Country
Egyptian agriculture area

FAMILY SIZE
5-15

INCOME
Low income

QUALIFICATION
Agriculture diploma

WORK
Government employee

CLASS
C-E

LIFESTYLE
TV-Local food-Egyptian uniform

Businessman persona

AGE
25-60

Location
Egyptian greenhouse

FAMILY SIZE
3-5

INCOME
High income

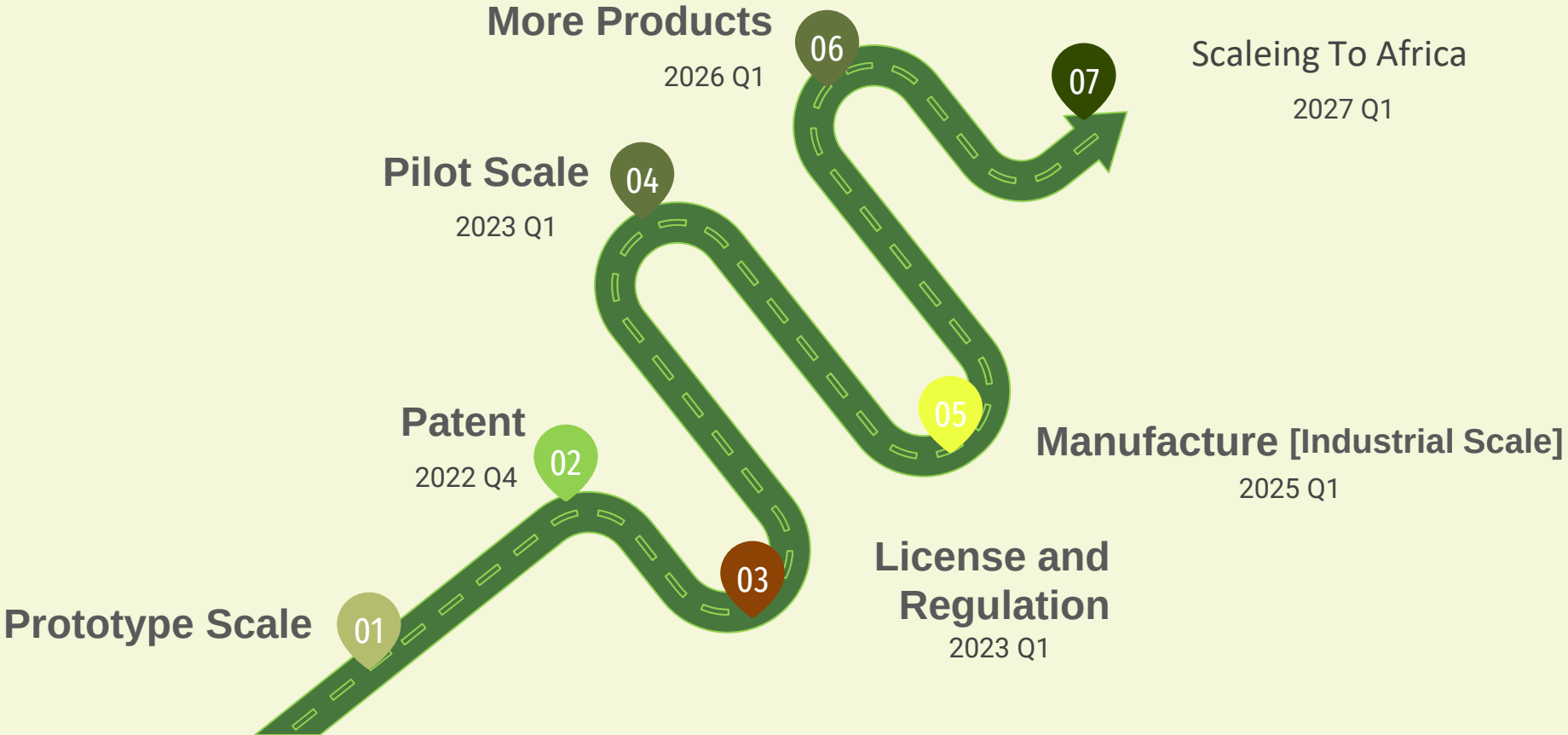
QUALIFICATION
Agriculture Engineering

WORK
Agriculture Engineering / Investing

CLASS
B-C

LIFESTYLE
Gym-TV-Mobile-Sociable-Urban

Scalability Roadmap



Growth plan products

2024

Food Composter & CSP energy system

2026

Developing Food Composter by adding Stirling engine and MED distillation

2027

Implementation our NXT agricultural robot

2028

Adding windmills and atmospheric water generation system

Budget for construction

Pilot Scale, to be able to establish the project on one acre

Item	Cost [L.E]
Legal Documents [Establishment, Patent, Licenses]	25,000 EGP
Devices	400,000 EGP
Organic wastes	500 EGP/Ton
Agricultural area	4,100 EGP/Acre
Taxes	7,000 EGP
Salaries	25,000 EGP/Month

460,000 EGP/Acre

AI agricultural future

"A window for a green world"

Our Team

SHARKIA STEM

Ahmed Mohsen

Project director

Mohamed Tamer

R & D

Mohamed Awad

Business developer

NourELdin Elhassan

Technical support

Our supervisor & mentor

Dr. Ahmed Elsayed Ashour

- Doctorate in Quantum Mechanics in Ain Shams University.
- Capstone manger & Physics teacher in Sharkya STEM School.

Dr. Ahmed mentored us in establishing our project from the beginning and had a lot of useful opinions and recommendations that led us to the right way.

Thanks For
listening!