isep Instituto Superior de **Engenharia** do Porto

# TEAM ONESECT

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# SUMMARY


**Problem**

- Initial Requirements
- Derived Requirements (based on the preliminary studies)

**Proposed Solution**

- Concept
- Design (structure, control and application)

**Prototype**

- Implementation
- Tests and Results

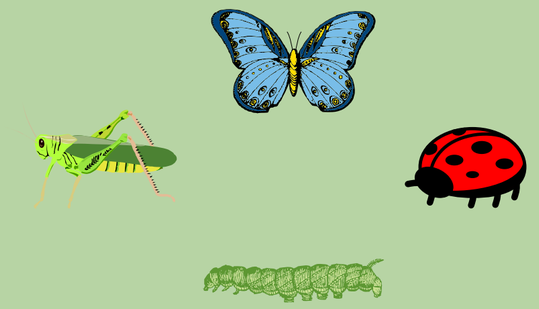
**Conclusion**

- Achievements (solution and personal)
- Future work

# PROBLEMS

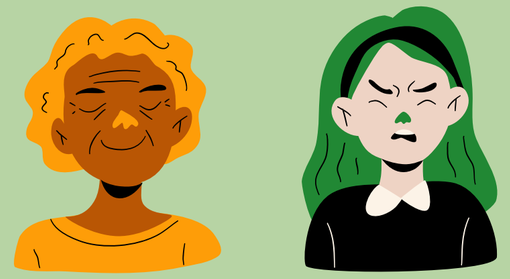
Initial Requirements

**TYPE OF PRODUCT ?**



**SCALE ?**

**MARKET ?**



# PROBLEMS

Derived Requirements

**LIFE CYCLE / LIVING CONDITIONS ?**

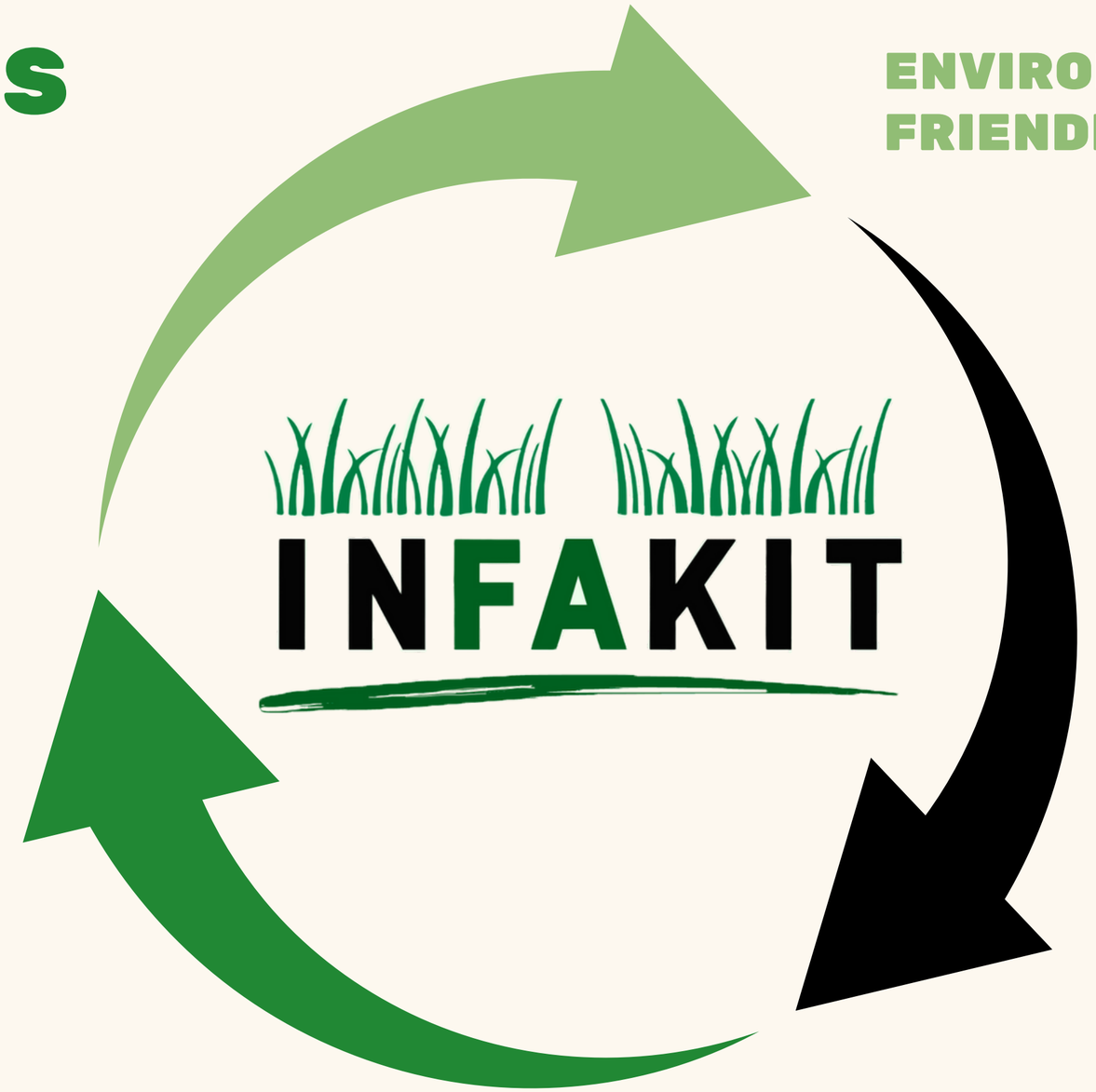
**HOW TO OPTIMISE ?**

**ENVIRONMENTAL FRIENDLY ?**

# SOLUTIONS

Our concept

**ENVIRONMENTAL FRIENDLY**

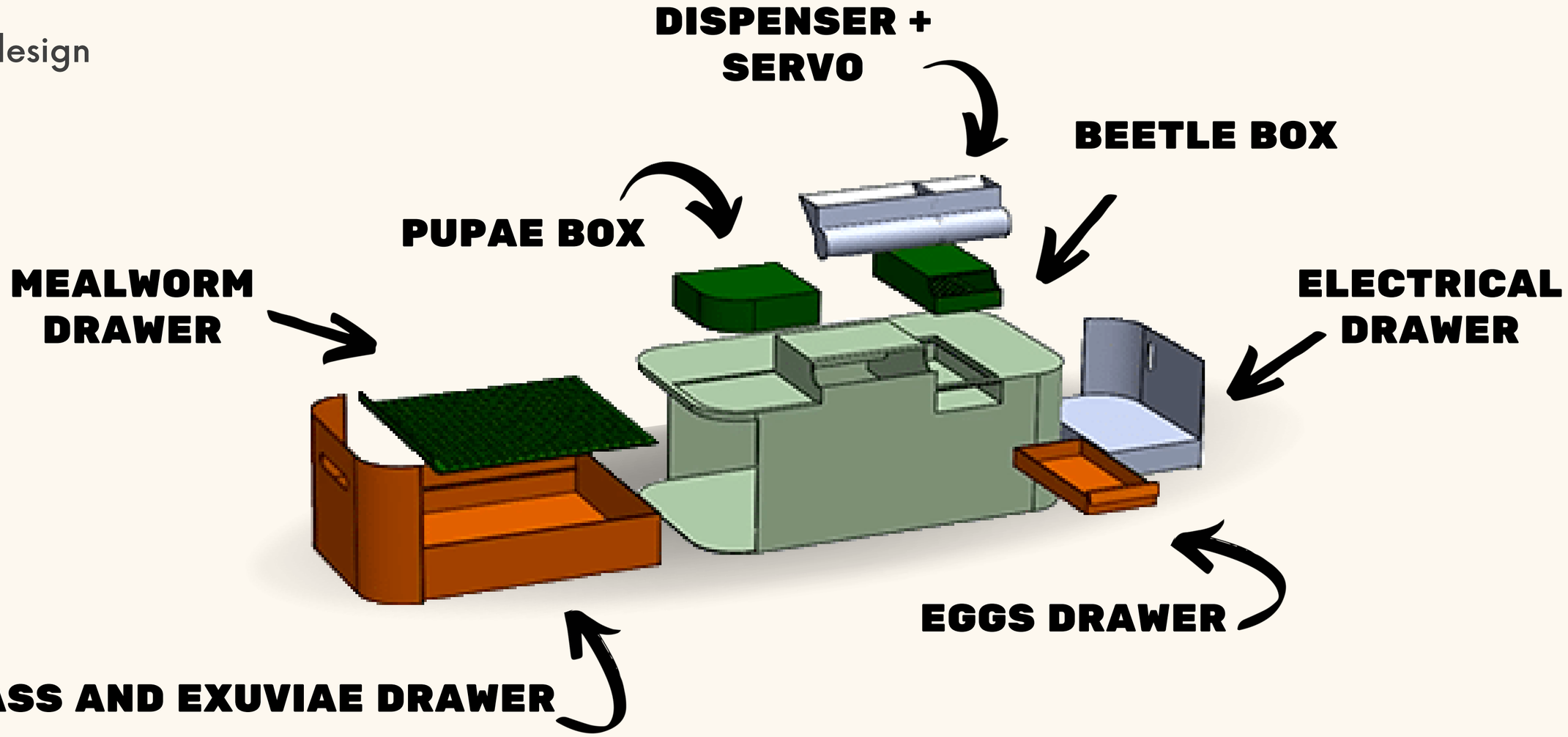



**PROMOTE A NEW WAY OF PROTEIN CONSUMPTION**

**INNOVATIVE**

# SOLUTIONS

Our design



# SOLUTIONS

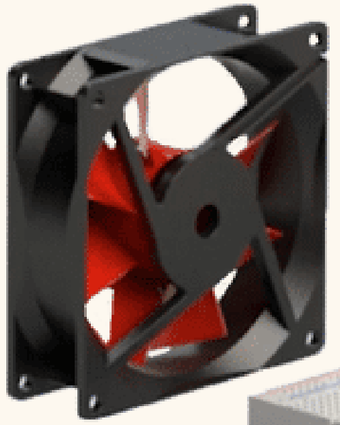
Our design

T&H SENSOR

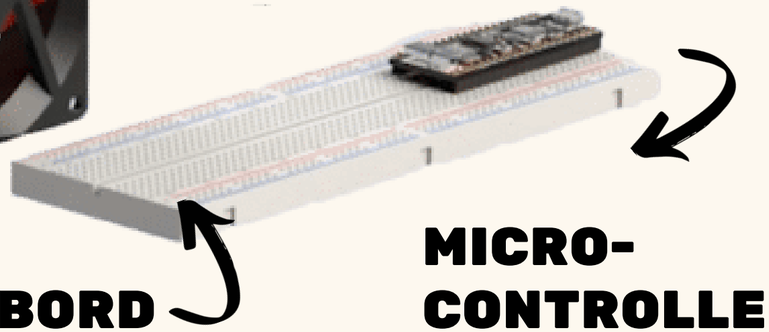
TRANSISTOR

RESISTOR

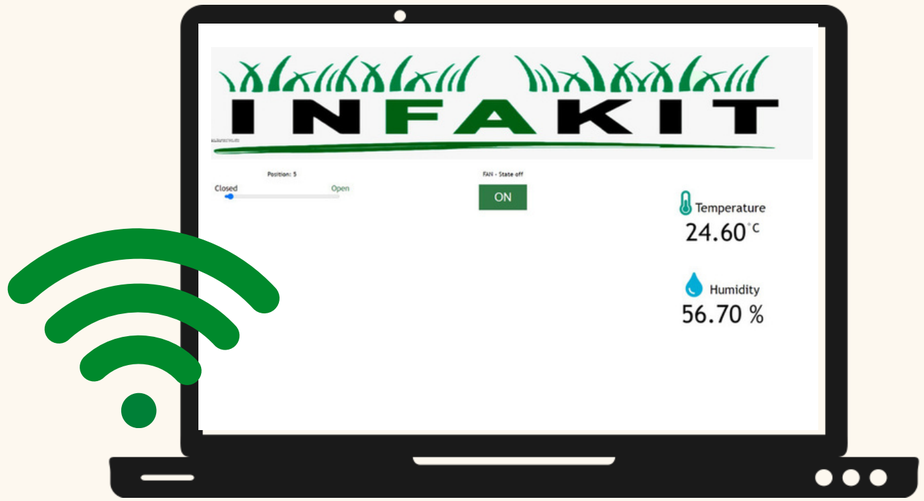
FAN



BREADBORD



MICRO-CONTROLLER



# PROTOTYPE

Implementation

FAN & SENSOR

RAMP

MODULAR

DISPENSER

# PROTOTYPE

Tests and results

## DESIGN & FUNCTIONALITY

- CONTROL VIA WEBAPP
- DISPENSER SYSTEM
- FAN

## LIFECYCLE CONTROL & PREPROCESSING

- SEPERATION DIFFERENT STAGES
- FREEZING 48 H
- STORAGE IN FREEZER

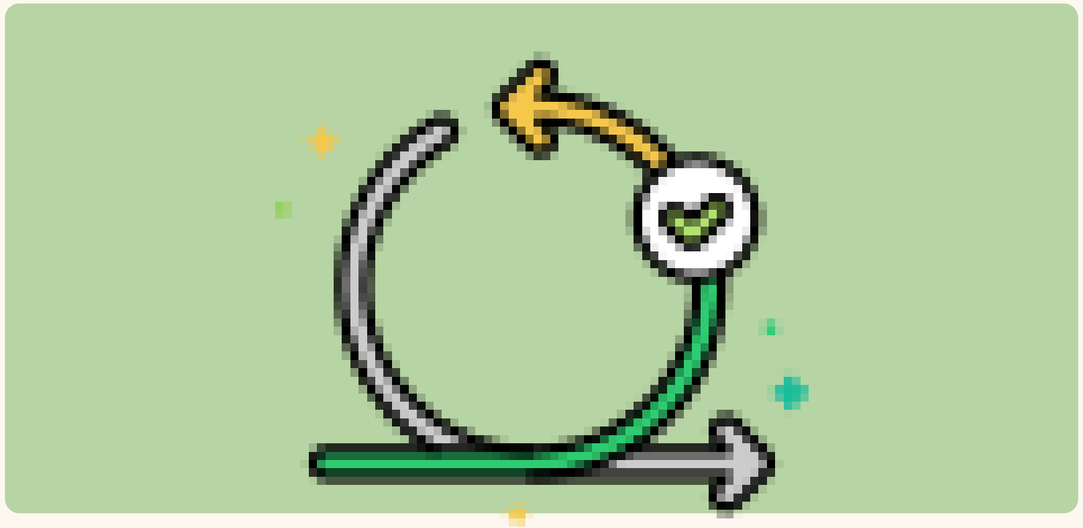
## PROCESSING & PROTEIN SOURCE

- FRYING IN PAN
- 30 MIN; 100 °C BAKING IN OVEN
- GRINDING

# CONCLUSION

Achievement

## PRODUCT



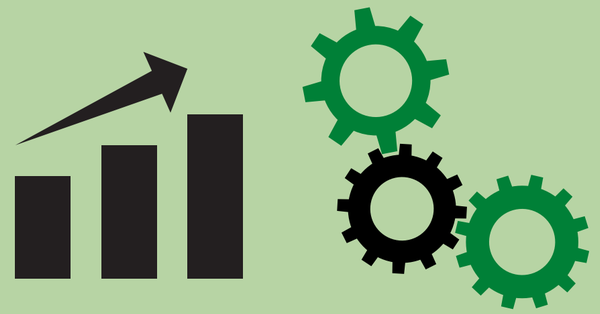
## PERSONAL

# CONCLUSION

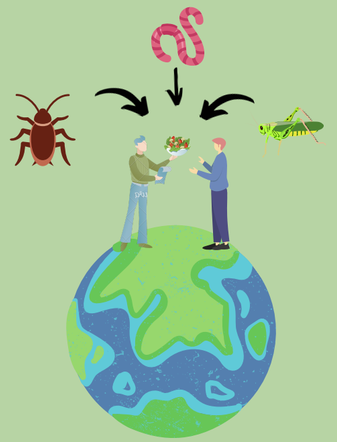
Future work

## AS A COMPANY


## AS A PRODUCT



## AS HUMAN BEING



INFAKIT

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# THANK YOU FOR YOUR ATTENTION

Don't hesitate to contact us or more informations