



Interim presentation

# Motivation

Insecto as an insectarium



## Creative

The creativity with this project makes it more fun.



## Nature friendly

The Insectarium produces food for animals or humans that is much more sustainable than the food we know today.



## Innovative

Something that never has been done before.



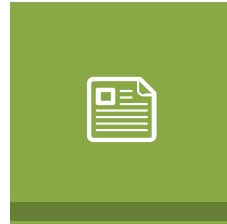
## Rising subject

Insects as a food is a rising thing, more people are eating insects because of it's high protein level and cheap way to produce it.

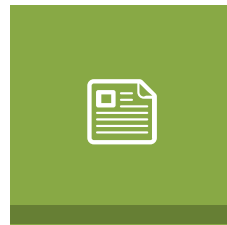
# Presentation agenda

A look at our presentation agenda

State of art  
Mealworms life-cycle.



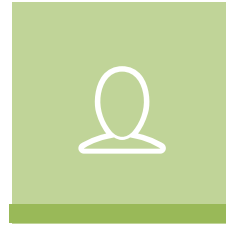
marketing  
Analyse our market.



project management  
Defining tasks and goals.

## Ethics & deontology

Ethical and professional standards of our company.

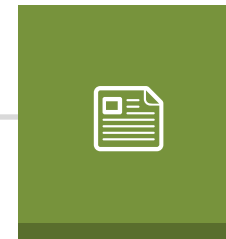


## sustainability

The life cycle of our product, the insectarium.

## Solutions

What are the main sustainable things of our insectarium?



## Conclusions

The life cycle of our product, the insectarium.

Problem

# Issue at hand \_ problem

1. Easy healthy food for animals in a more sustainable way

---

2. Lower hunger globally by selling insectariums to third world countries

- cheaper
- easier
- smaller ecological footprint

# State of the art

mealworm lifecycle

## Appearance

egg → larva → pupa → beetle

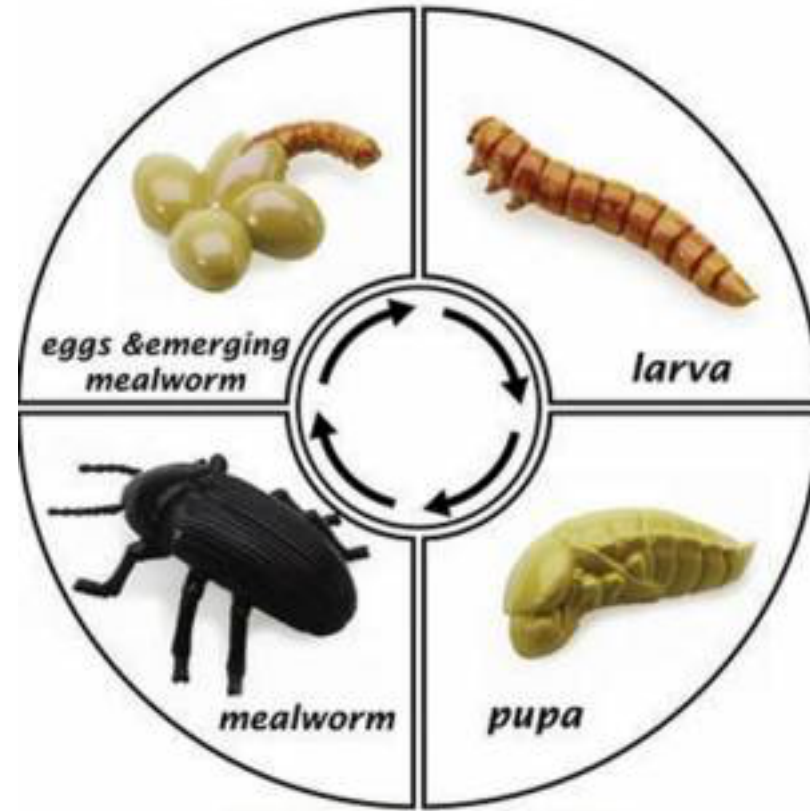
## Habitat

What is needed for the different stages to live in

## Raising and breeding

Container, food, water, temperature, maintenance

So why mealworms ?



# Project management

## Time

Achievable schedules for deadlines.

## Cost

How do we manage our budget?

## Quality

Every work in our project needs to pass a quality control before we can go further with other tasks.

## People

Specific tasks for every team member at specific times and deadlines.  
Stay connected during the stress —> activities

# Marketing

## market analysis

micro environment, macro environment

## Swot

strengths , weaknesses, opportunities, threats

## segmentation

farmers, private person, zoo

25-30years

Portugal

## strategy

to 2018 getting a publicity of about 15-20% of the humans



# Ethics & Deontology

Engineering ethics  
safety, health and sustainability

Sales and marketing  
Respect the rights of all stakeholders.

Academic  
Integrity of the person.

Environmental  
Moral and ethical relationship of human beings to the environment.

Liability  
Legal debts or obligations that arise during the course of business operations.

# Sustainability

## High quality protein

Healthy for animals and humans



## Materials

Focus on animals , but what for the humans



## Chemicals

Much more natural and sustainable then the food added with chemicals we know today.



## Future use

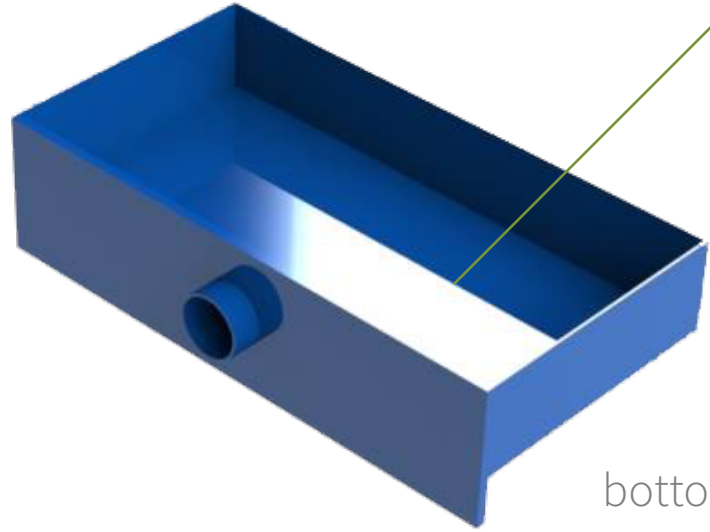
The increase of population leads to the use of something more simple otherwise there will be to much pressure on agricultural lands,water,forests,fisheries and biodiversity resources.



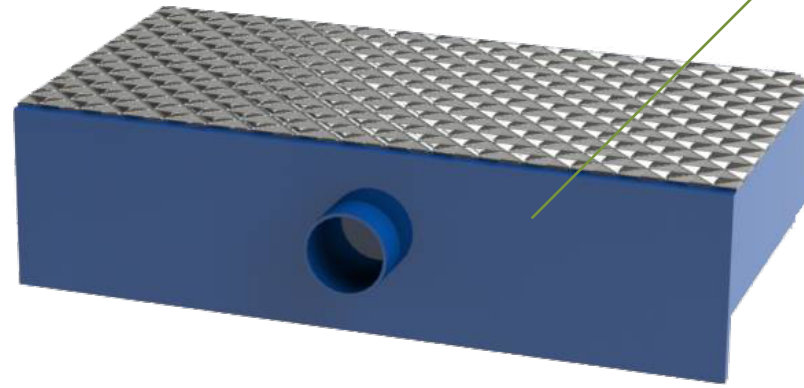
# Solutions

Design

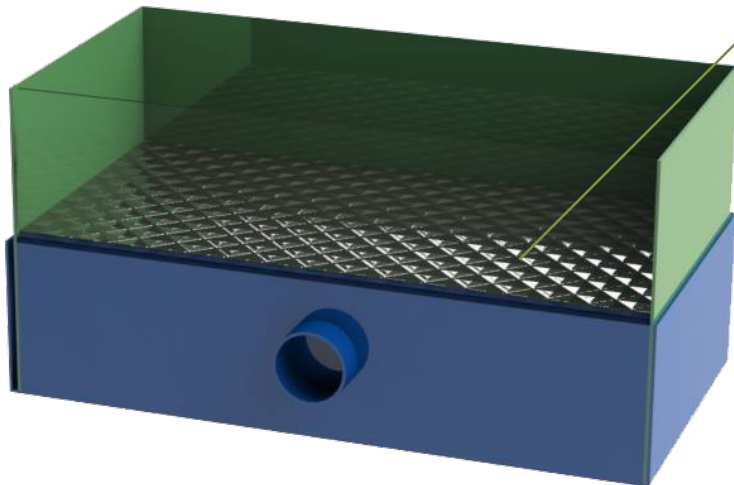
collect eggs



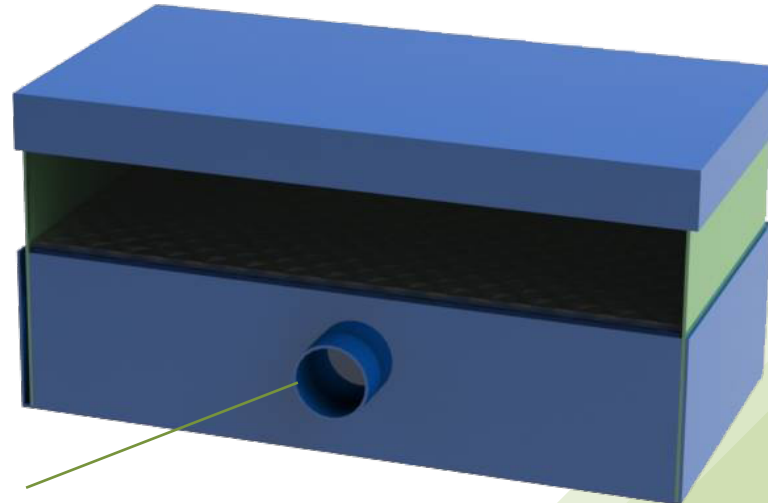
PMMA



bottom with tiny holes

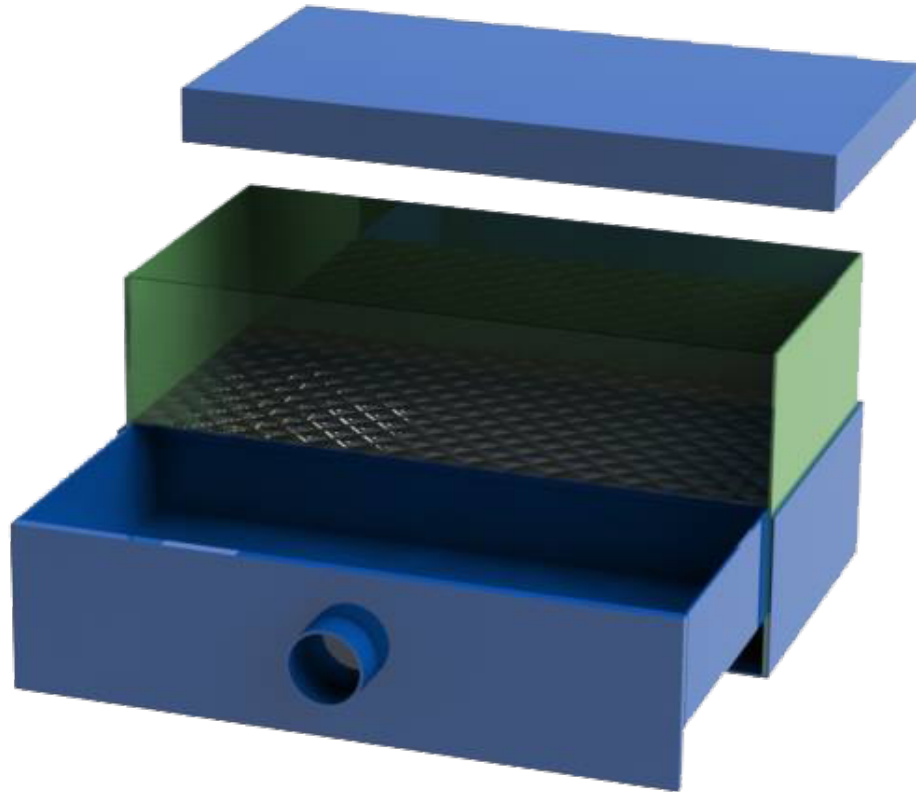


air ventilation



# Solutions

Design



# Conclusions

what have we done ?

what do we still need to do ?

100%



Thank you for listening

Any questions?