



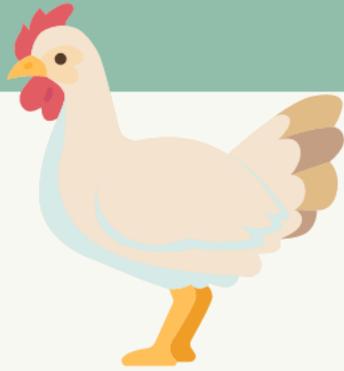
alpiSECTS

Sustainable insects rearing in the Alpine region

Did you know?



18-25 days



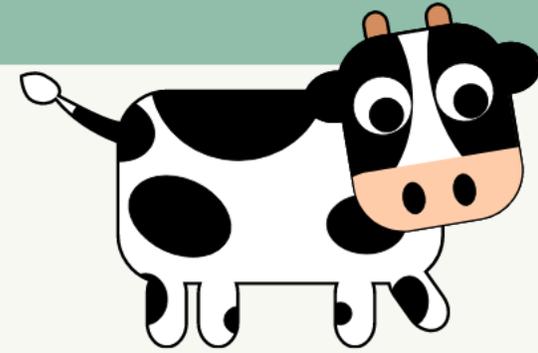
45-60 days



60-90 days



90-145 days



6-50 months

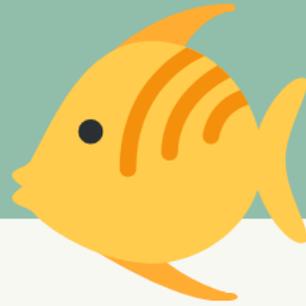
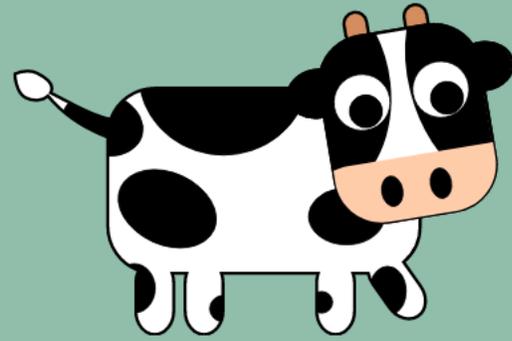
Who?



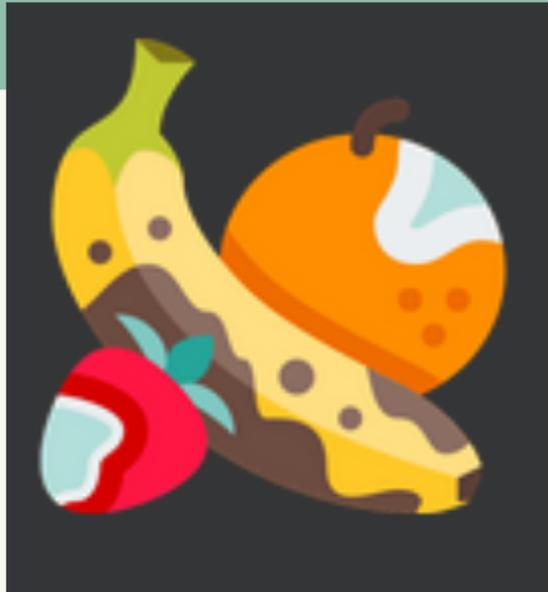
Roberto Fattorini
Martin Ferrari
Tommaso Magoni
Camilla Menestrina
Ernesto Rossini



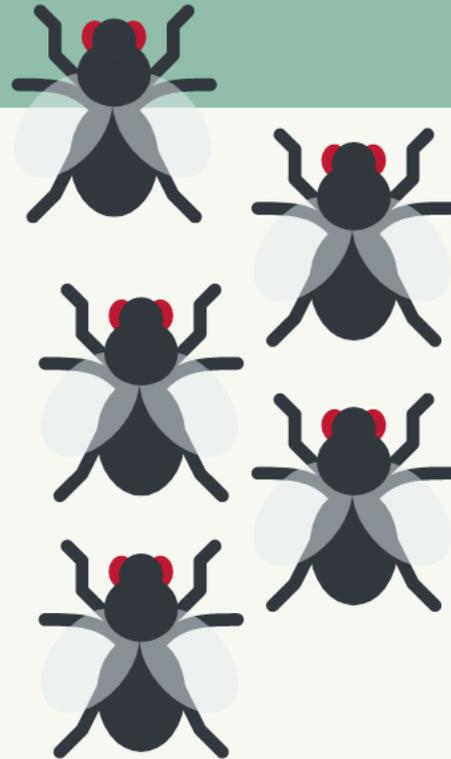
What?



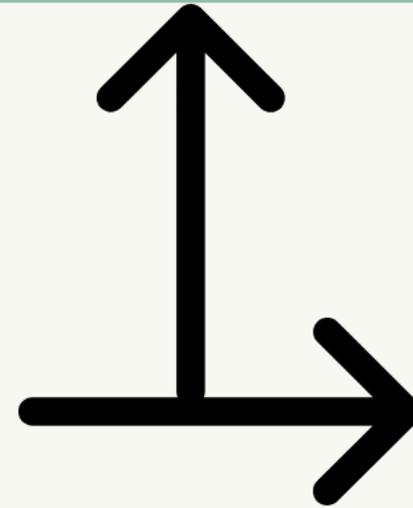
How?



Waste pre-processing & treatment



Residue processing



Product harvesting



- Production of feed for animals
- Reuse of waste materials (like wood and agrifood by-products)
- Mitigation of climate change effects
- Creation of job positions
- Collaboration with other companies in the area
- Education and awareness (of sustainability and climate change issues)

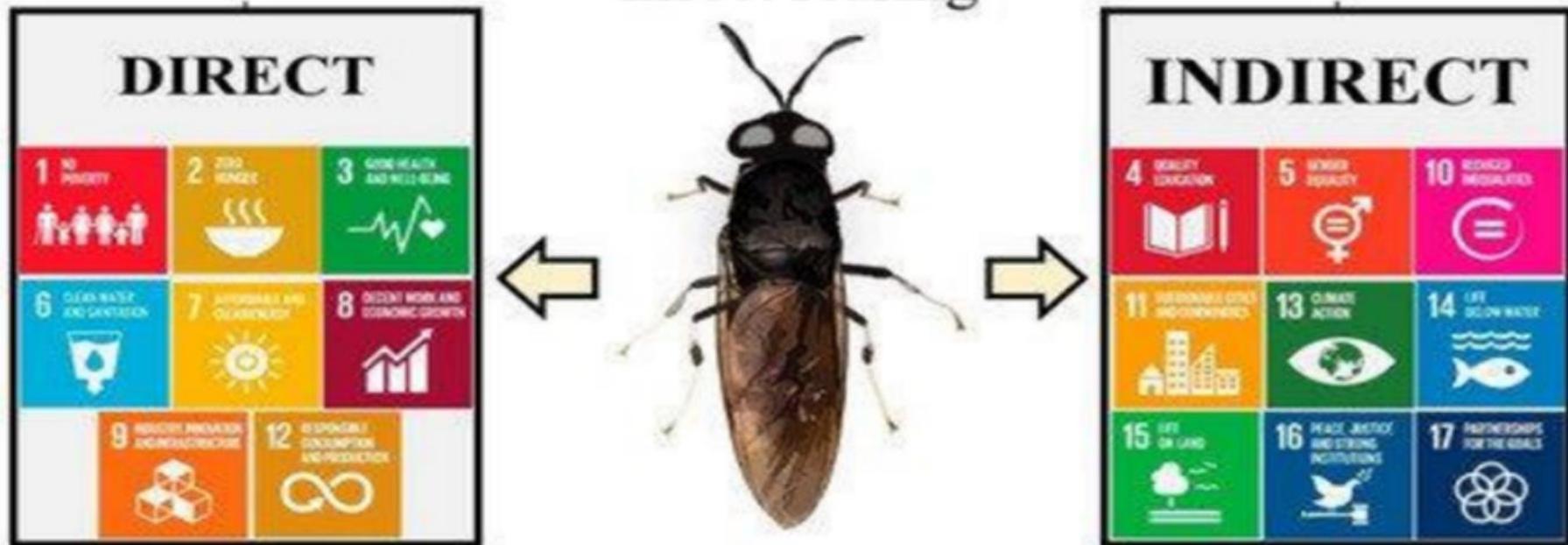
OBJECTIVE OF THE PROJECT



Sustainable development goals



Insect rearing



- Removal of decayed woody material to control forest pathogens
- Dealing with depopulation by creating new job positions (using circular economy)
- Improving quality of touristic sites by cleaning the forest

RELEVANT POINTS FOR THE ALPINE REGION



RELEVANT POINTS FOR THE ALPINE REGION

- Increasing and safeguarding biodiversity by mitigating the effect of climate change
- Preserving landscape heritage
- Increasing the resources use efficiency of the region (due to the limited space available in the Alpine region)



Resource efficiency

24202 L



**1 kg
beef**



25 kg

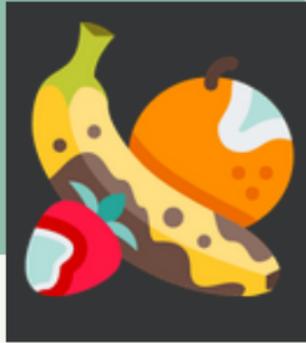


Extensive land

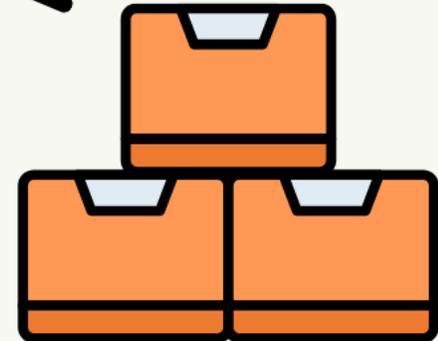
**1 kg
insect**



2 kg



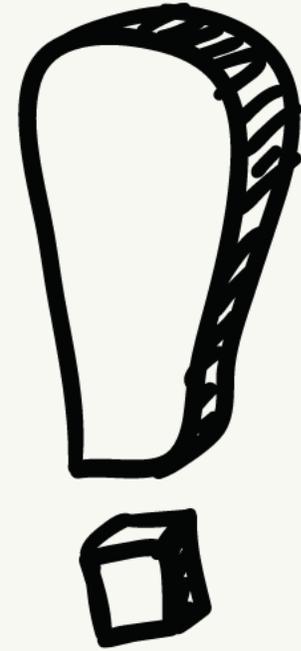
Small cubicle



8,3 L

- Initial costs
- Unclear and inconsistently updated policy framework
- Introduction of animal welfare laws
- Scepticism and disgust factor in prospective buyers

PROBLEMS



- Production cycle validation and safety assessment of the breeding material
- Introduction in the cycle of waste material to increase the circularity of the process
- Optimisation of the production according to the environmental and climatic characteristics of the breeding site

NEEDS



- Evaluation of nutritional values and healthiness of the final product & product safety
- Promotion of the product by emphasizing the positive environmental aspects
- Creating a stakeholders network to improve the efficiency of the production chain

NEEDS



Relevant for



WAGENINGEN
UNIVERSITY & RESEARCH



**Food and Agriculture Organization
of the United Nations**

inagro 

 **ipiff**

FOODE



FEEL FREE
TO ASK
QUESTIONS
