

LIVIN
forms

**ON-SITE TECHNOLOGY TO
UPCYCLE WASTE INTO INSECT
PROTEIN FEED**

Vienna & Hong Kong

www.livinfarms.com



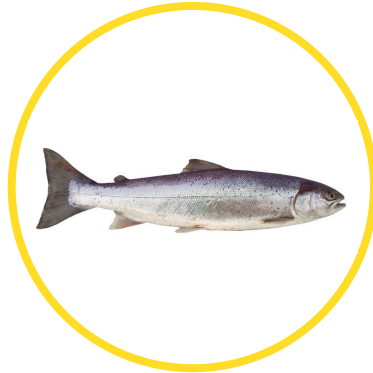
CHALLENGE 1

WE ARE FACING A HUGE PROTEIN GAP FOR PROTEIN-RICH FEED IN VARIOUS INDUSTRIES

**75% of feed
in Europe is
imported**

**100 M TONS
proteins* missing
p.a. by 2030
in Europe alone**

**Global Potential Market Volume
Insect Proteins p.a.**



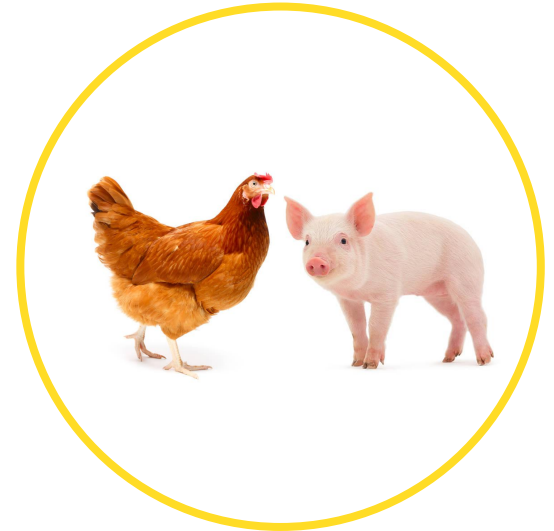
Fish

~€1 B



Pets

~€8 B



Poultry + Pigs¹

~€130 B

*proteins used for livestock production for farming, excluding pets. 55% of the gap can be attributed to fish, poultry and pigs. The remainder goes into other livestock production not suitable for insect proteins in Europe.
Key Sources used, amongst others: https://ec.europa.eu/info/news/commission-publishes-updated-eu-feed-protein-supply-2019-nov-14_en, <https://www.gmo.info.eu/uk/files/353-eu-protein-gap-wcover-06-08.pdf>, <http://www.fao.org/3/12425e/12425e00.pdf> and Livin Farms analysis
1. Legalisation of proteins derived from insects as feed for poultry and pigs received a green light from EU in spring 2021, full legalisation is expected by Sept/Oct 2021

CHALLENGE 2

OUR CURRENT WAYS OF PROTEIN PRODUCTION CONSUME THE PLANET

**9
GIGA
TONS**

CO₂ emitted p.a. by 2030
by conventional protein production.
This equals the emission of 3 billion
cars p.a. or 3 X the number of cars
in the world today.

**= 2nd
biggest factor
for climate change**

Livin Farms Calculations based on the following source:
<http://www.fao.org/3/i3437e/i3437e03.pdf>
Feed Production and Processing contribute 45% of those emissions

SOLUTION

INSECT PROTEINS CLOSE THE PROTEIN GAP WHILE SAVING THE PLANET



Insect Protein

-92 % CO₂
per unit protein*

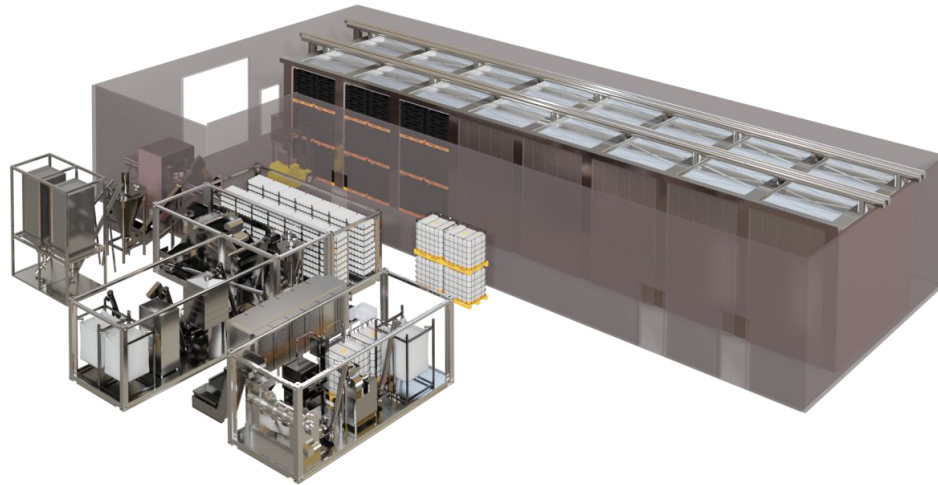
***than soy**

INDUSTRIAL-SCALE PLUG & PLAY INSECT FACTORY EMPOWERS CUSTOMERS TO PRODUCE INSECT PROTEIN

Livin Farms has developed a highly scalable and modular construction system for fully automated insect factories

Customers sell insect-derived output products:

- Insect Proteins
- Insect Fats
- Insect Fertiliser



Livin Farms Hive PRO



End Product = Insect Protein

HIVE PRO IS AN AUTOMATED ROBOTIC INSECT FEEDING AND PROCESSING FACTORY

Robotic Handling

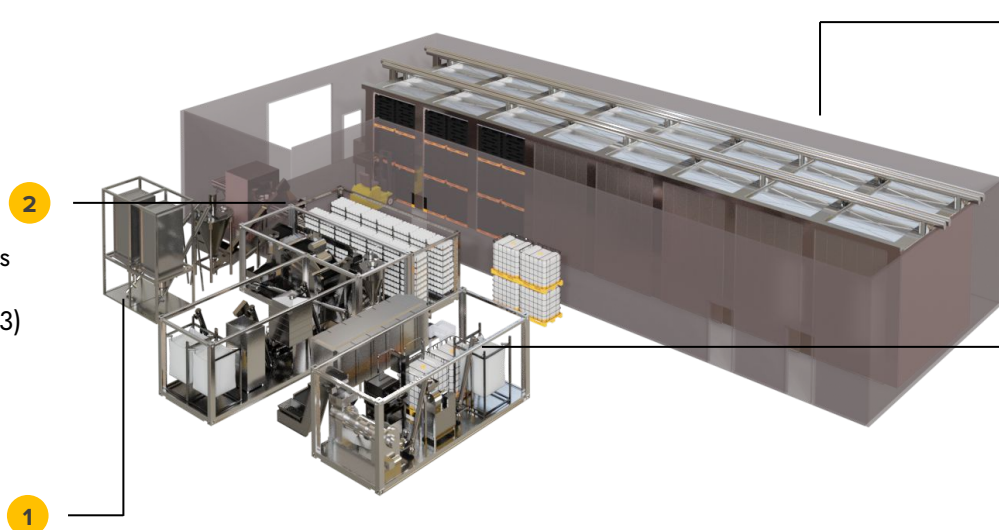


Robot Handling Machine (1) inserts feed into large trays (2) inserts seedlings (baby larvae) into trays (3) empties harvest-ready larvae from trays.

Feed Processing



Organic Wastes from customers are processed and prepared as insect feed.



3

Rearing



Insect Larvae are fed on waste in climatized environment and are harvest-ready within 1 week only.

4



End Product Processing

Processing of insect larvae into protein powder and oils. Drying and pelletising of remaining substrate into fertiliser.

MARKET

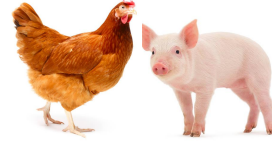
THE BEST TIME TO GROW IN THE INSECT INDUSTRY IS NOW !



2014
first insect products enter the market for pet food and human food



2017
Insect Proteins approved for farmed fish



Sept/Oct 2021
Insect Proteins approved for pig and poultry feed



Mealworms are approved as human food

TODAY

2030

500k tons
insect proteins

50x

10k tons
insect proteins

EU MARKET MILESTONES

YOUR IMPACT

LET'S SECURE THE FUTURE OF FOOD TOGETHER

