



WHEN NATURE MEETS SCIENCE

WHAT IS PUPAFEED BIOTECH?

We are a science-based startup that designs and implements closed-loop system principle between Agriculture, Food industry and Biowaste management industry. Our team consists of a chemist, biologist, economist and social entrepreneur working for a sustainable agriculture in Mongolia.

WHAT PROBLEM ARE WE SOLVING?

Organic waste and nutrient deficiency in livestock is an emerging problem in Mongolia due wealth and land degradation.

The solution is rather simple: 2 billion Hermetia illucens a.k.a Black Soldier Fly

They upcycle low-grade, degrading material from the food processing industry into high-grade nutrients like protein meals and lipids.

WHAT IS OUR PROGRESS TO DATE?

Proof of concept system operating in Ulaanbaatar recycling 500 kg waste per month.

Collaborating with local university (MULS)

Developed MVP:

PupaMeal is high protein feed for poultry and fish PupaSoil is rich in major nutrients (N,P,K) and oligo elements from natural origin.

PupaOil is cold extracted natural insect oil. External research shows it has health benefits for broilers.

Support by Youth Co:lab (UNDP)

1 TON FOOD WASTE

collected from food companies, markets and supermarkets for bioconversion.

2.7 M³ SPACE

needed for processing food waste.

200 KG COMPOST

with low levels of heavy metals and rich in required nutrients to support plant growth.

200 KG LARVAE

harvested after 14 days as natural food source for chicken, pet and fish.

40 KG PROTEIN

can be extracted by processing further to dried larvae. The protein powder is the basic ingredient for livestock feed.

10 KG LIPID

is a natural fat extract, highly palatable to

47 X LOWER

can CO2 eq. emissions compared to open windrow composting facility.

HOW TO PARTNER WITH US?

We are open for collaboration with parties and investors, who are engaged in circular economy, closed-loop system and sustainably.









