

INSPIRED BY NATURE, WE GROW INSECTS TO FEED ANIMALS

















THE PROBLEM

FOOD PRODUCTION capacity is SATURATED

Globally, the demand for protein-rich food is increasing rapidly.

EXTRA 100 M TONS OF PROTEIN

will be required annually by 2050.





Fish stocks are quickly being

DEPLETED

THE SOLUTION

Black soldier flies (BSF) efficiently convert organic waste matter into protein for animal feed.



12 X 10 000

Increase body mass 10,000 times in 12 days.

60 / 40

Convert 60% of total

matter into body mass,

40% remain as fertilizer.

1 x 900

1 female lays up to 900 eggs.

IMPACT

OUR SOLUTION IS HIGHLY SCALABLE AND CONTRIBUTES TO THE FOLLOWING SUSTAINABLE DEVELOPMENT GOALS (SDGS)



End hunger, achieve food security and improved nutrition and promote sustainable agriculture



Take urgent action to combat climate change and its impacts



Ensure sustainable consumption and production patterns



Conserve and sustainably use the oceans, seas and marine resources for sustainable development

MARKETS





PET FEED € 61 BN



PIG FEED € 65 BN



GLOBAL INSECT PROTEIN DEMAND IS EXPECTED TO INCREASE OVER **300 X IN VOLUME AND VALUE**OVER THE NEXT **10 YEARS.**

2018

€50 M

20 000 tons



€15 BN

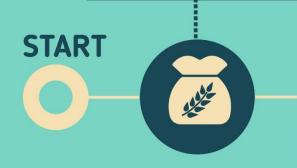
6 000 000 tons

2030

HOW IT WORKS: from WASTE to PROTEIN in 12 DAYS

STEP 1

Agricultural co-products (waste) are used to create feed for the insects



STEP 2

Flies are reared in a highly bio-secure environment





STEP 3

The insects are dried, and proteins and fat are extracted.

STEP 5

The insect frass is used as high-value fertilizer.





STEP 4

Our products are used as ingredients in animal feeds

INDUSTRY VALUE CHAIN

NASEKOMO intends to be a key-player in the nascent insect industry and specialize in the genetics, multiplication and transformation stages in the future. Our value chain will replicate those of other animal industries, and integrate all stages of the process.

GENETICS



Hold genetic capital and manage strains

MULTIPLICATIONS



Generate billions of juvenile larvae (5 day-old-larvae, DOLs)

REARING



Grow the larvae on the organic waste matter

TRANSFORMATION



Extract ingredients from the insects

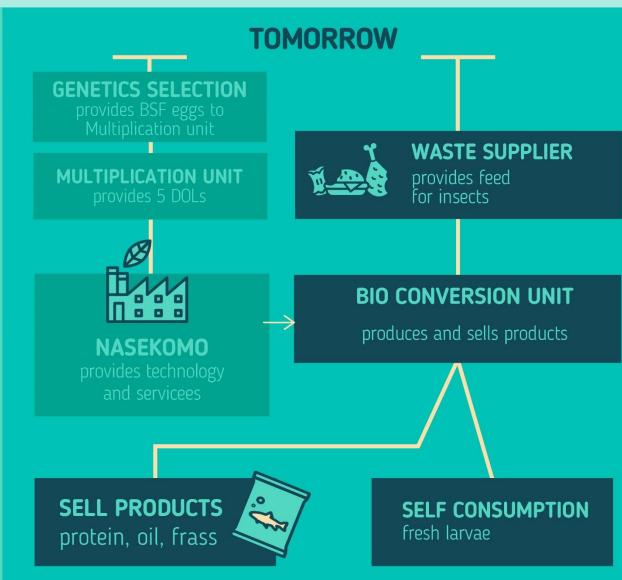
ZERO WASTE

ZERO WASTE

BUSINESS MODEL

Evolving from an integrated model to supplying high value-added products and services to the insect industry





ROADMAP: HOW do WE get THERE?

TODAY TOMORROW GENETICS **FlyGenetics** 3/20 :launch genetics selection center Supply own Multiplication Units Supply third parties also with 06/20 : incorporate JV with world with genetically selected flies genetically selected flies leading partner **VERTICALLY** MULTIPLICATION **INTEGRATED** Build first Multiplication Unit to MultiFly Deploy 6 new multiplication units built serve South East Europe **INSECT** Multiplication Pilot factory to cover Europe/Asia **PROTEIN PRODUCER** First full scale factory/ bio-convert-PRODUCTION BIOCONVERSITON Reach 500 t/y Additional units built by investors/ ing unit in operation in Bulgaria insect meal production capacity customers with Nasekomo rearing (2,000 t/y)on current site technologies in Europe/Asia TECHNOLOGY SERVICES NSK Technologies Provides rearing technology and manage-Supply rearing technology to first ment services under licensing agreement bio-converting JV to bio-conversion units in Europe /Asia

2019

2020

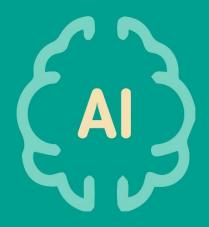
2022

FROM 2024 ONWARDS

NASEKOMO USES PROPRIETARY TECHNOLOGIES



Genetic selection processes to pick the most efficient flies

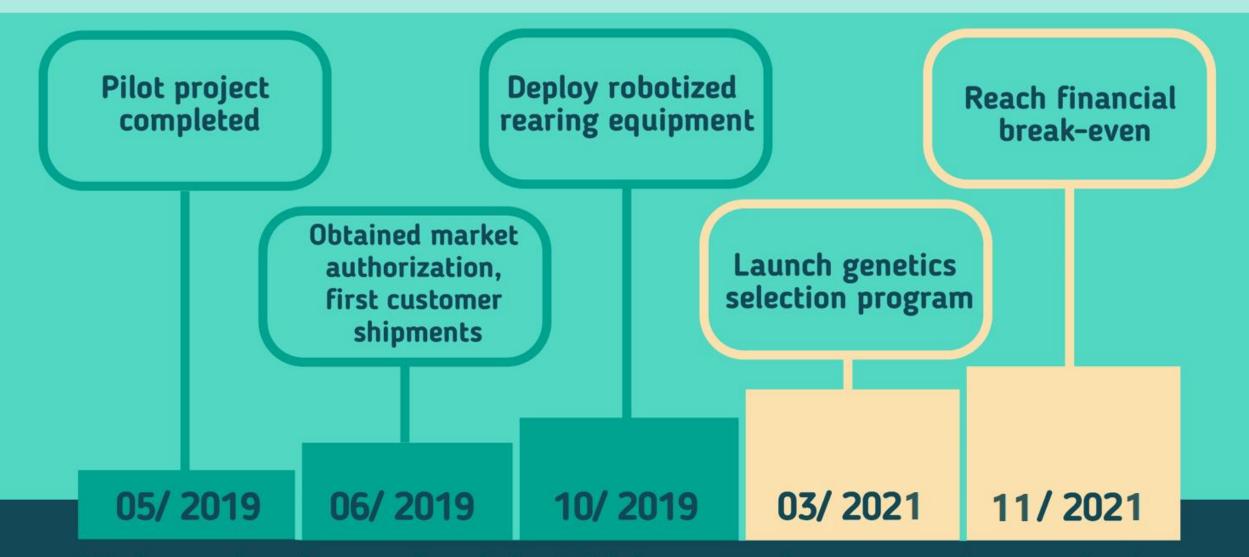


Al-operated and automated breeding cages for larvae



Robotized rearing beds for mass rearing of BSFs

TRACTION



We have already completed the initial stages of our strategic growth plan.

TEAM

Entrepreneur

Operational leader

Biologist

Solution to meet growing protein demand.



XAVIER MARCENAC Business Development

25 years experience

Operations & entrepreneurship

Founder/CEO of TELUS Intern. Europe

Successfully exits TELUS (PwC)



OLGA MARCENAC Operations & Finance

Operational leader Finance

Building teams (Service delivery)

GE PwC (UBS) TELUS



MARC BOLARD Genetics

Genetics (Animal farming) (Research)

Xy Evolution (Creavia) (Urceo)

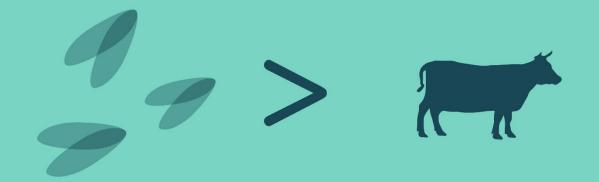


NASEKOMO TEAM

A team of 25 professionals from business and life sciences.

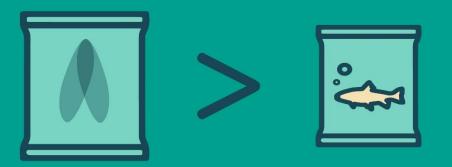
ENVIRONMENTAL IMPACT INVEST IN NASEKOMO FOR AN IMPACT

The production of 1 kg of insect body mass compared to the production of 1 kg of beef:



2,000 X LESS WATER
200 X LESS LAND
5 X LESS FEED

The production of 1 ton of BSF insect meal that replaces fish meal:



SAVES3 TONS OF WILD FISH

REDUCES CO2
EMISSIONS BY 0.4 TONS

REDUCESMETHANE EMISSIONS



THANK YOU!

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