

Source:Innovafeed

Source:Ynsect

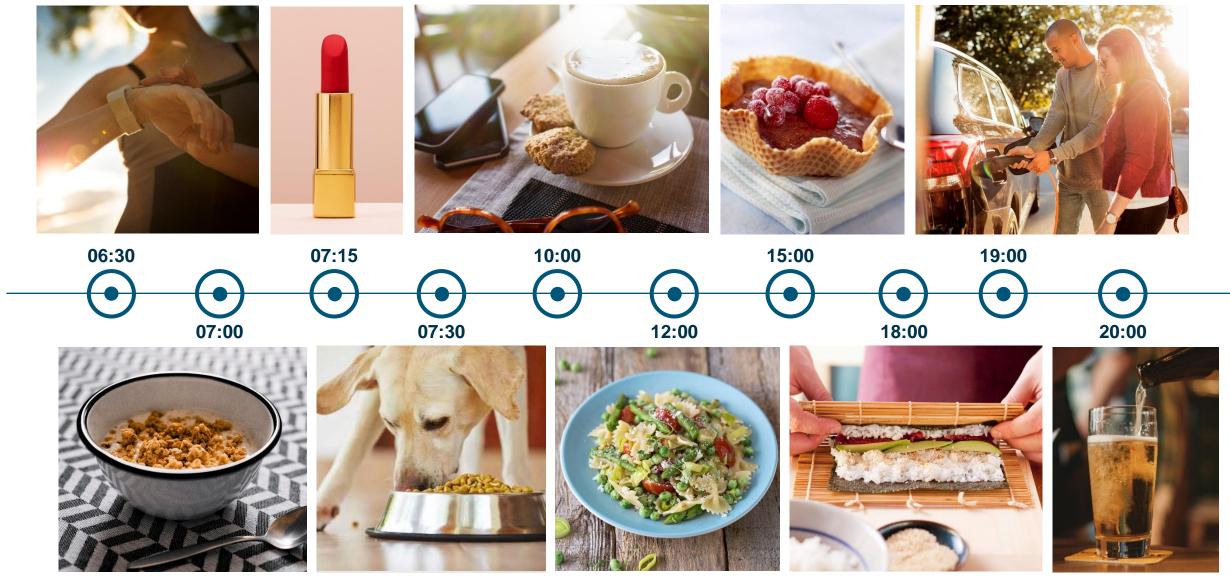
Source:Protix



About Bühler Insect Technology



Every day, billions of people come into contact with Bühler



Strong position in our industries

Our market shares

Grain Milling



Optical Sorting



Feed Production





Die Casting: Share of Parts in Cars



Leybold Optics: Glass Coaters



Grinding & Dispersion of Printing Ink

Bühler at a glance

Global market leader with a strong presence in local markets



CHF 3.3 billion

140

Countries

Turnover

98Service stations

32
Manufacturing sites

2

12,767

Employees

 \Diamond

100%

Family-owned company

(2)

Up to 5%

of turnover are invested in Research & Development



50%

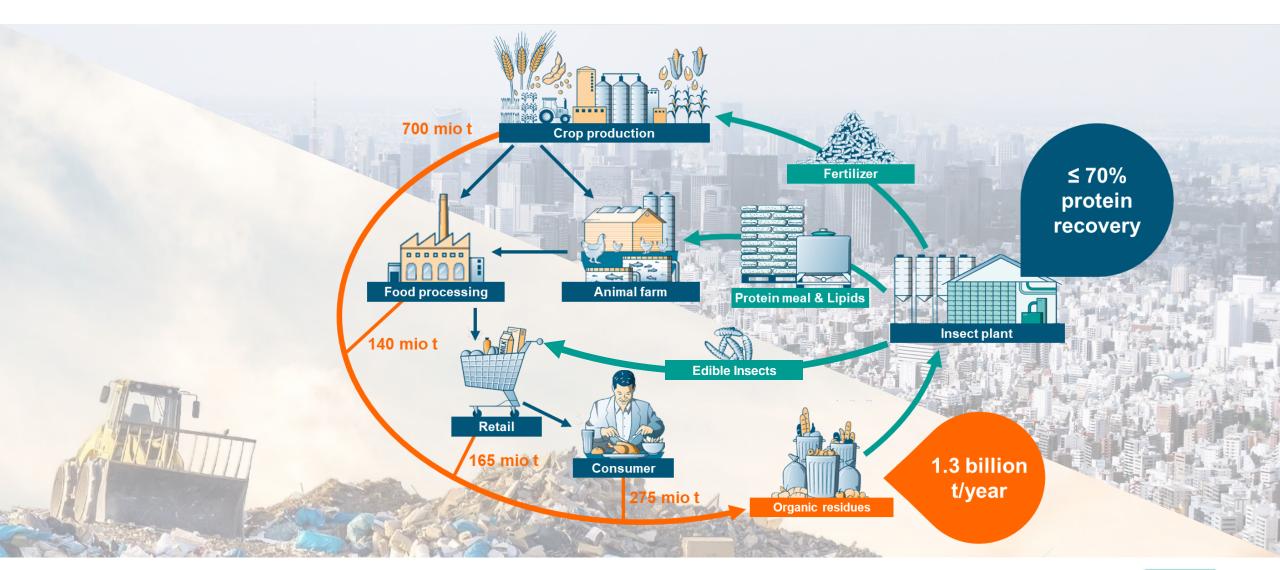
reduction of energy, waste, and water in our customers' value chains by 2025.



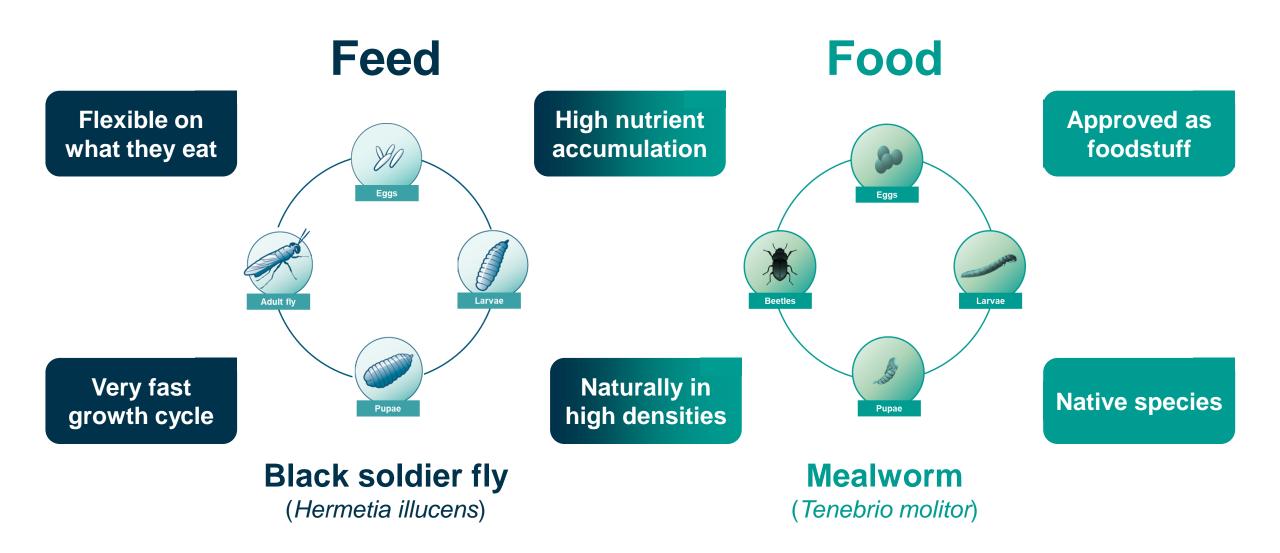
Challenges of the global food industry



... can be better adressed with the help of insects



What type of insects are we focusing on?







Why are we focusing mainly on industrial scale facilities?



Drivers towards industrialization of insect farming

Today's insect production as a hybrid between farming and industry



Labour intensity

Inefficiency

Variations in product quality



High Prices



Limited Supply





Economies of scale

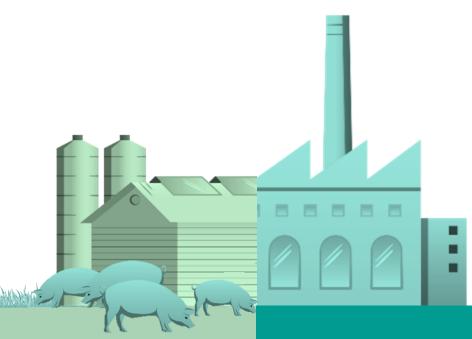
Standardized products



Compatibility with feed and food industry



A sustainable alternative for farmers and the food industry



Mealworms as alternative livestock for farmers

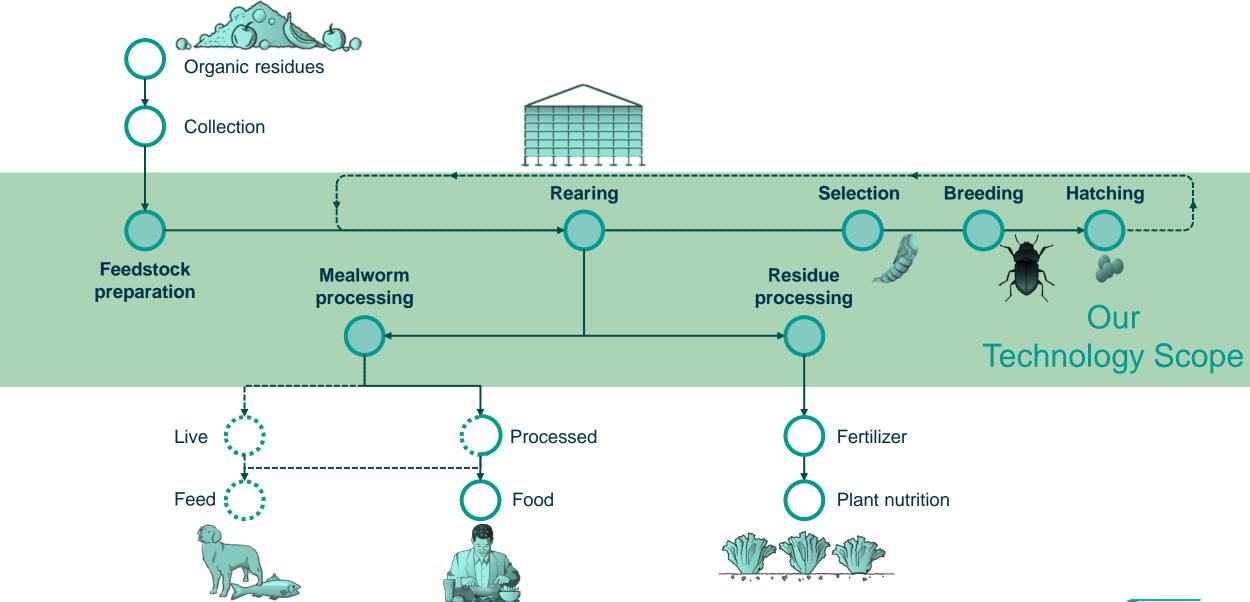
- Lower environmental impact than conventional livestock
- Transformation of existing agricultural buildings possible
- Ideal for co-operatives (decentralized rearing / centralized processing)

Mealworms as alternative protein source for the food industry

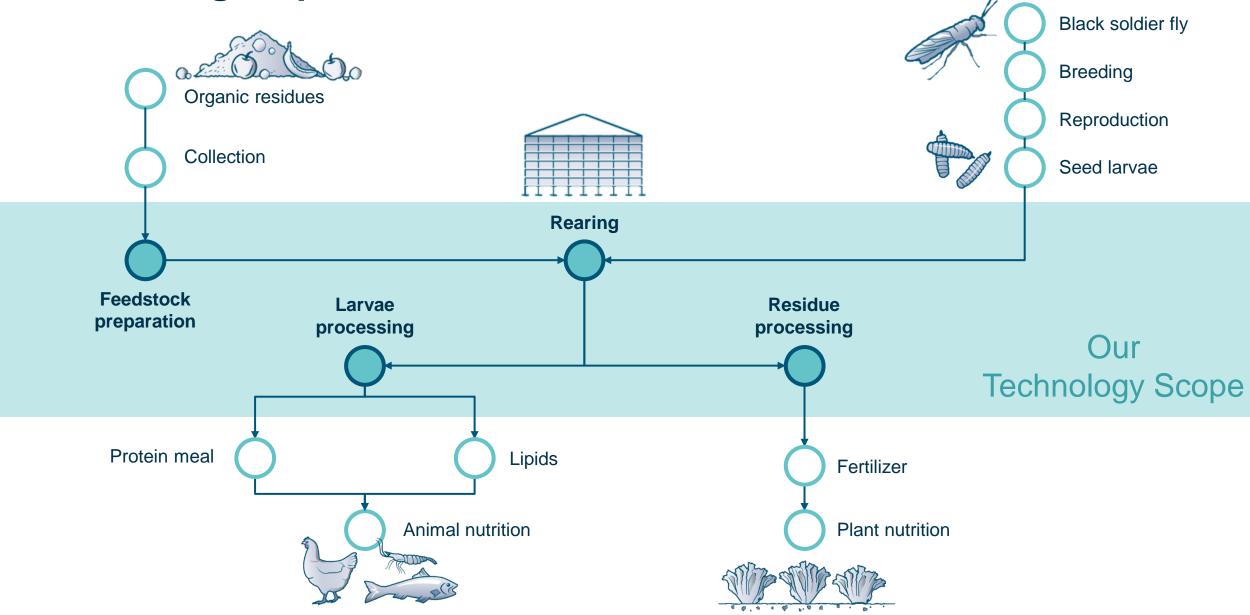
- Industrial-scale mealworm farming in the urban area
- Meet the growing demand for meat-alternatives
- Ideal for food processing companies that want to upcycle their side streams



Processing steps – Insects for food



Processing steps – Insects for feed



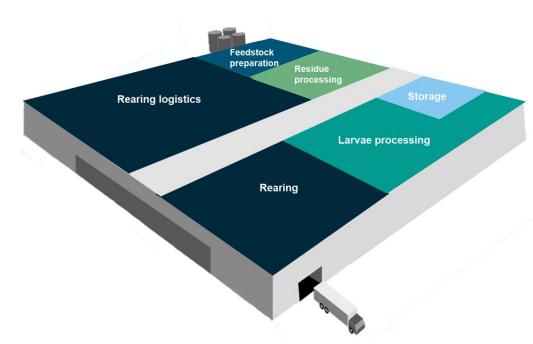
BIT Product Portfolio - Insect Plants

Capacities	Feedstock*	Larvae Processing**	Protein Output***
Pilot	5 – 25 t/d	0.5 – 1 t/h	0.3 – 1.5 t/d
Medium	50 – 150 t/d	2 – 3 t/h	3 – 9 t/d
Large	200 – 500 t/d	4 – 7 t/h	12 – 30 t/d

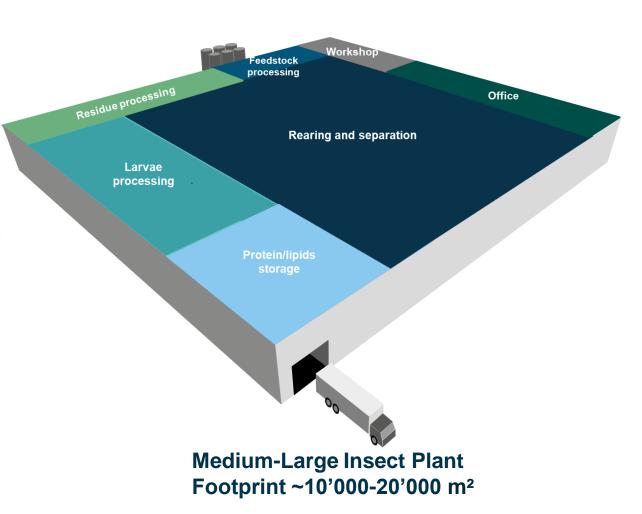
*wet feedstock

**wet larvae

***dry protein meal

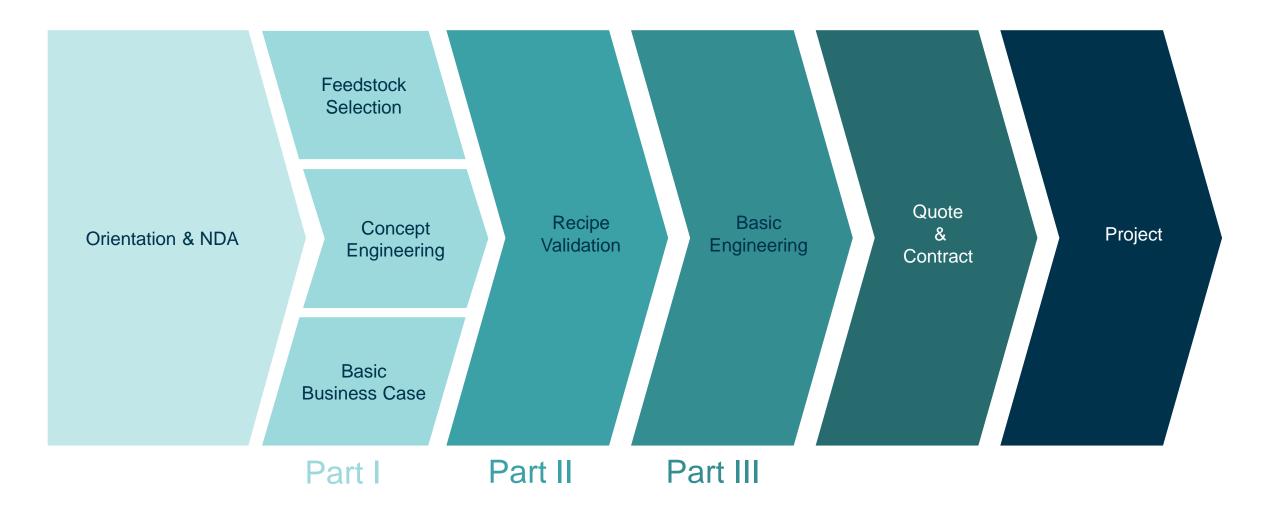


Pilot Insect Plant Footprint ~1400 m²





The feasibiliy package is the basis for a successful project





Thank you for your attention!

