

SCIENCE-BASED, DATA-DRIVEN AGRICULTURE
LEAVING EXPERIENCE AND INTUITION BEHIND

The logo for Tungsrām, featuring the word "TUNGSRAM" in a bold, sans-serif font, with a trademark symbol (TM) to the upper right. The text is centered between two horizontal lines.

Tungsrām Food Autonomy

Circular zero waste bio-food
economy

INTRODUCTION OF TUNGSRAM & TUNGSRAM FOOD AUTONOMY



Tungsram is celebrating its 125th anniversary

3500+

EMPLOYEES IN HUNGARY AND
GLOBALLY



ESTABLISHED SALES NETWORK
IN A 100+ COUNTRIES:
95+% EXPORT

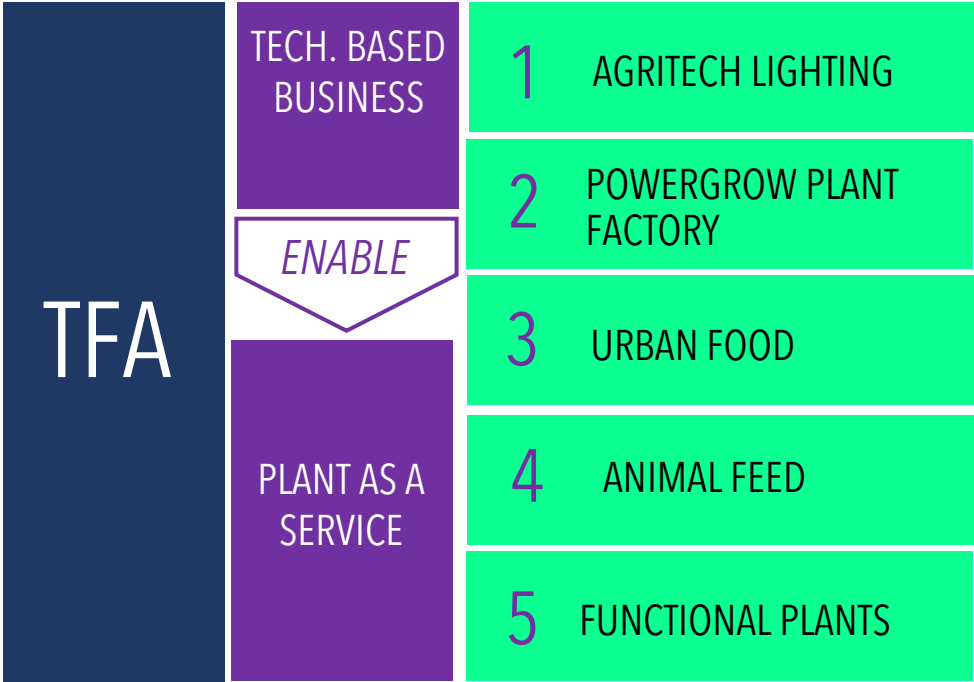


Ceramics, metal, glass, plastic quality
and tooling capabilities allowed the
entry into new industries

Close network with Hungarian and
global researchers

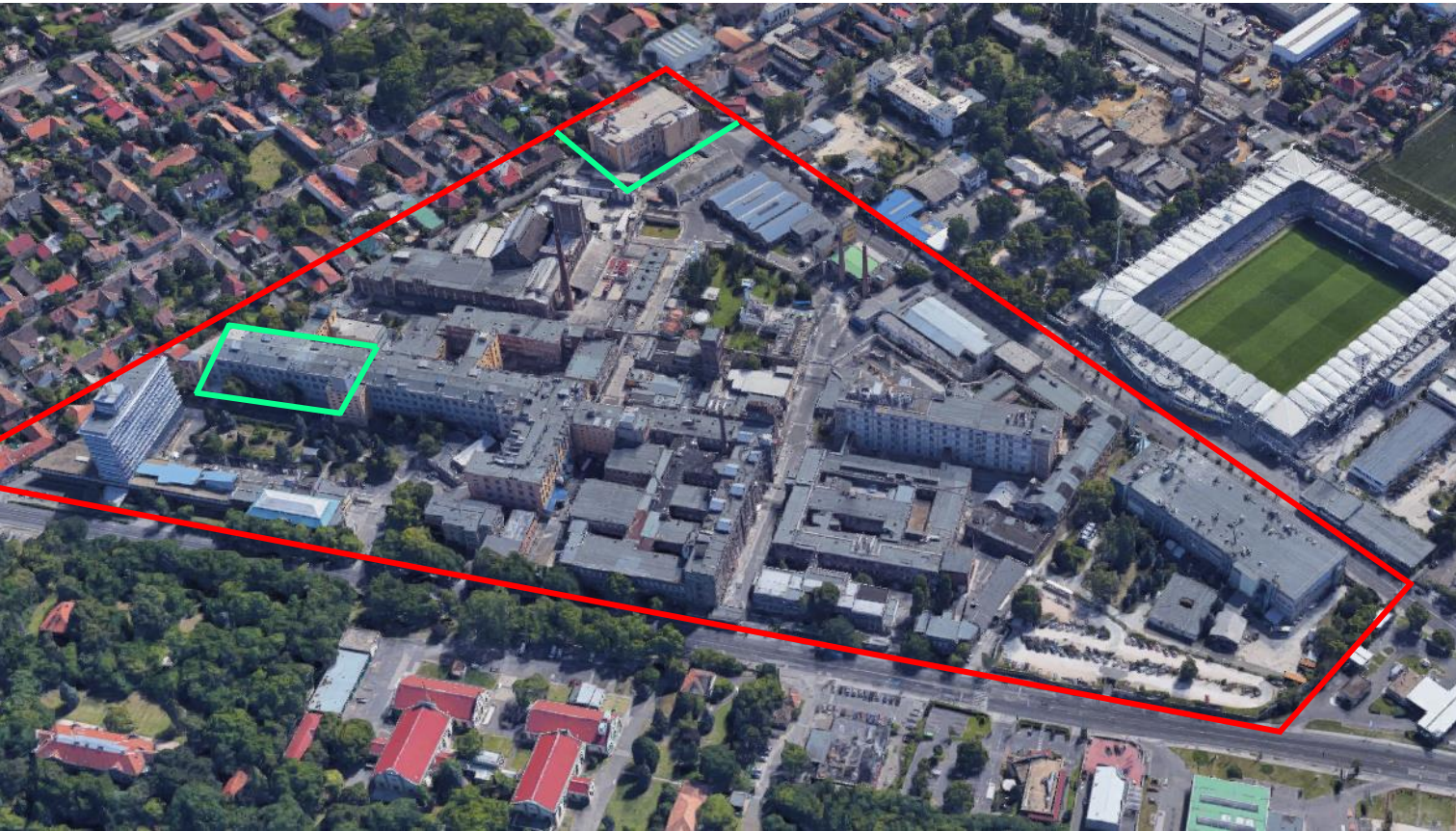
5 Hungarian plants for advanced
lighting technologies and components
Expanding Hungarian technology center
20+ Tungsram subsidiaries globally

Tungsram Food Autonomy (TFA) is a spin-off company of
Tungsram. TFA delivers solutions for the food supply needs of
humanity through a zero-waste bio food economy.



TFA's technology partner is **BIOPOLUS**
The Living Technology Alliance

OUR ACTIVITIES IN BUDAPEST

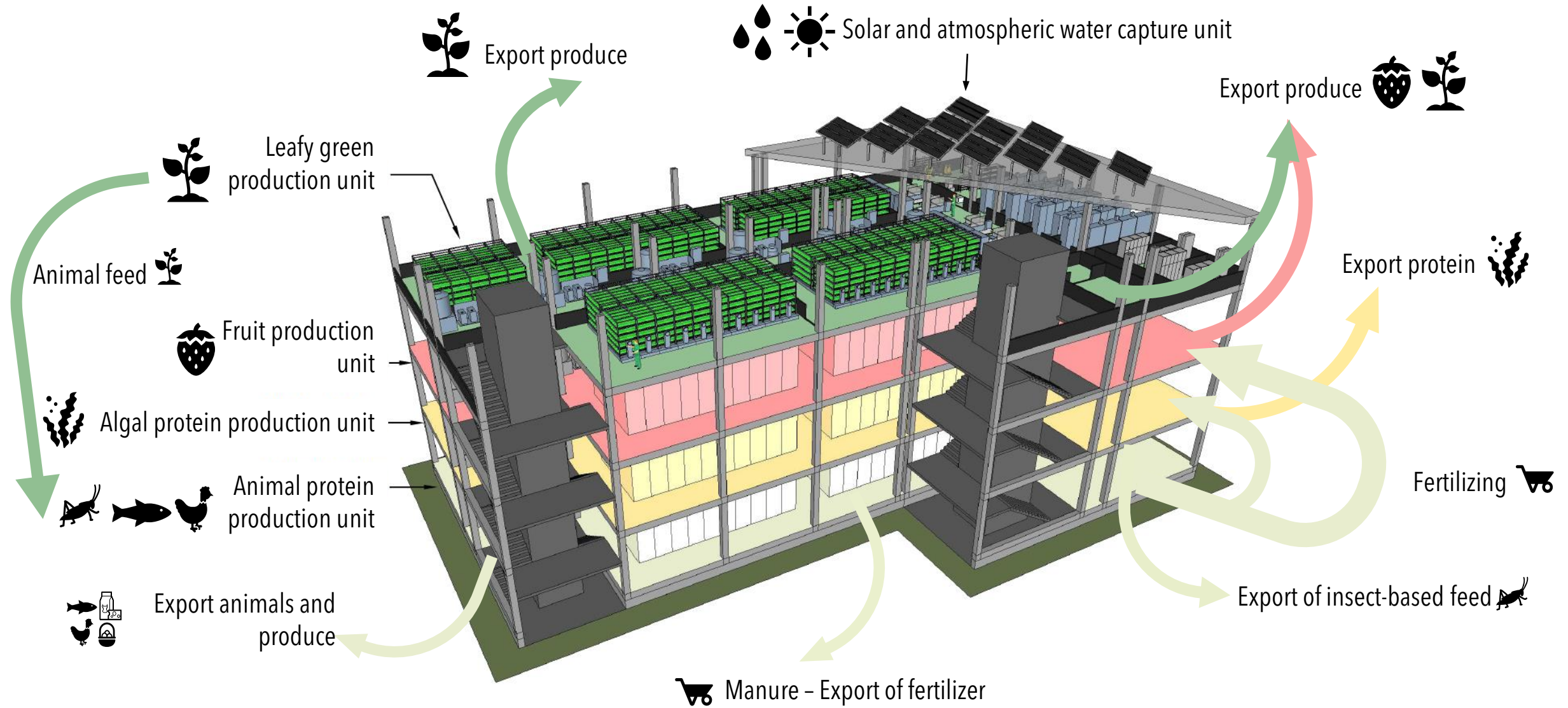


- Area: 110 885 m² in Budapest
- Home of Tungram's HQ and Tungram Food Autonomy

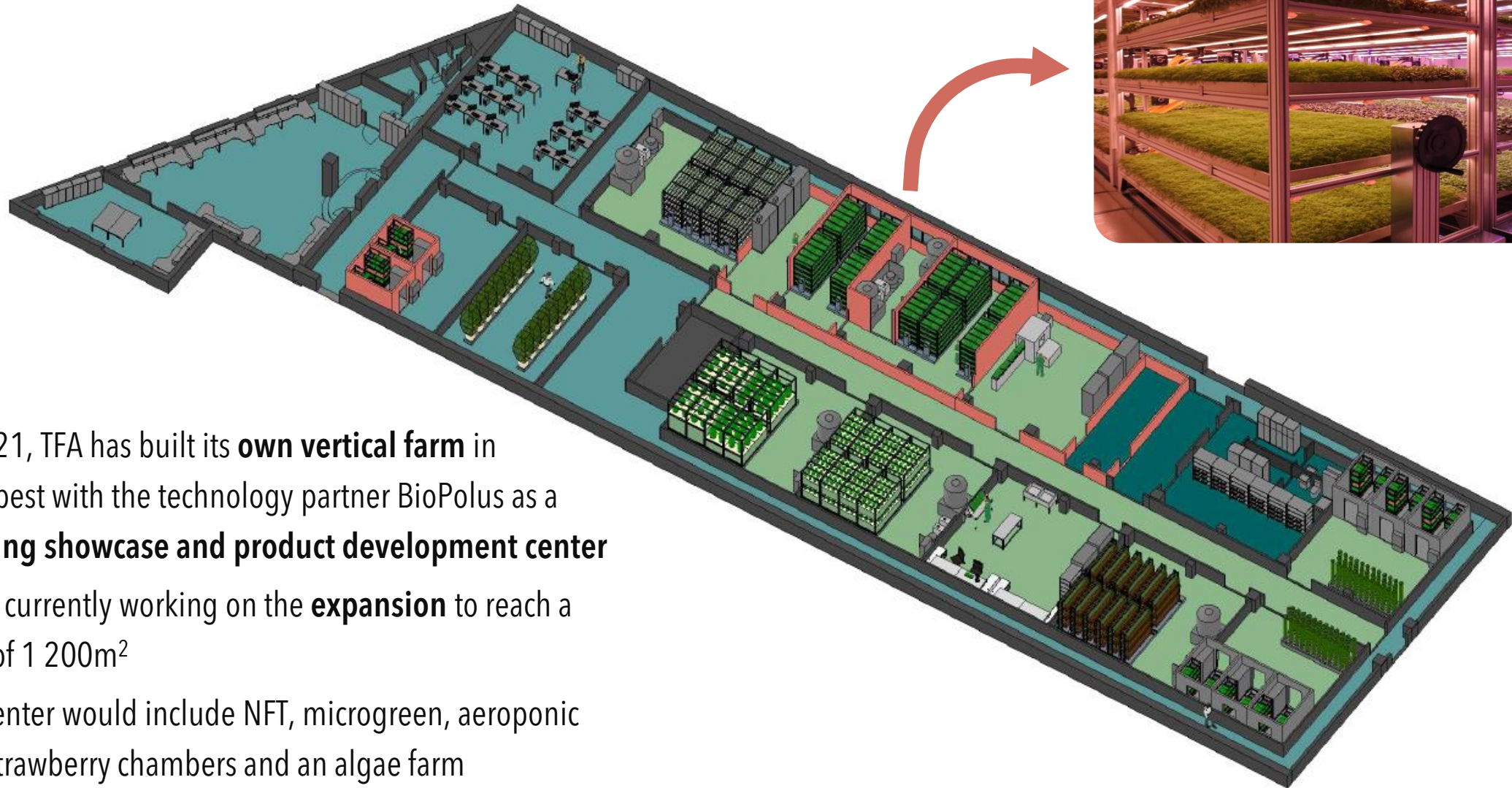
Ongoing and future plans:

- Product development center of TFA
- Provided buildings for the planned circular zero waste bio-food economy base unit

CIRCULAR ZERO WASTE BIO-FOOD ECONOMY BASE UNIT

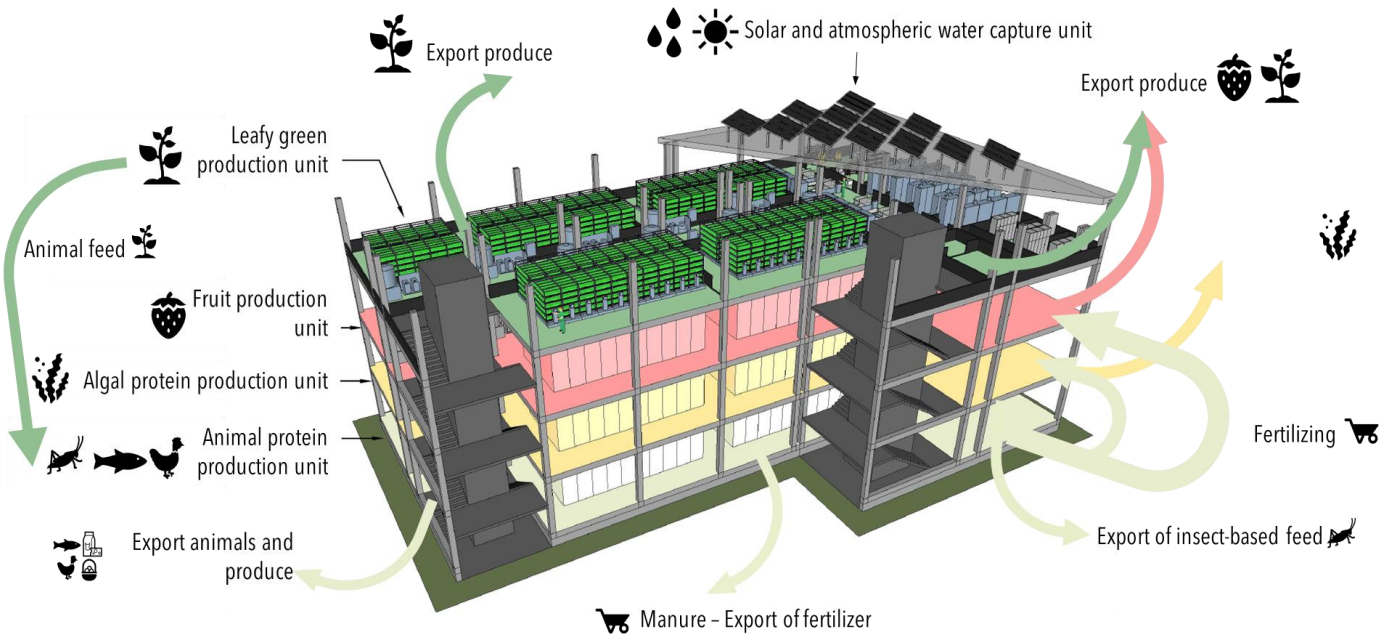


PRODUCT DEVELOPMENT CENTER



- In 2021, TFA has built its **own vertical farm** in Budapest with the technology partner BioPolus as a **running showcase and product development center**
- TFA is currently working on the **expansion** to reach a total of 1 200m²
- The center would include NFT, microgreen, aeroponic and strawberry chambers and an algae farm

CIRCULAR ZERO WASTE BIO-FOOD ECONOMY BASE UNIT



- Area: 4x1 000 m²
- Building on the experience and results of the Product Development Center
- Necessary daily **healthy nutrition for 5 000 people**
- **Financing need of the unit: EUR 30 MM**
 - Product development center
 - Demonstration unit
 - Capacity building
- Operating expense covered by sale of produce

The scalable, multipliable unit would provide the basis for rolling out similar installations globally to beat global hunger



LET US BUILD THE FUTURE TOGETHER!



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