



WAIProtein[®]

Revolutionize food industry for healthier & greener future

Global Problem

The global food supply has been disrupted following the 2022 Ukraine crises. Coupled with a rapidly growing population, our current food system is insufficient to meet the escalating demands. Even the annual global production of 350 million tons falls short of the requirements.



10 Billion

Global Population by 2050

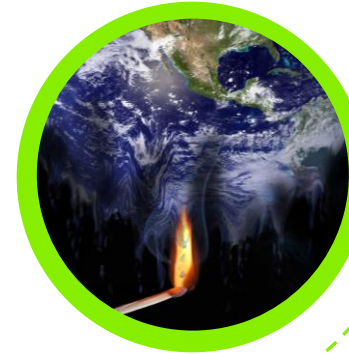
Population exploding!!



350M Tons

Global Meat Production

Not enough!!



7.1 Gigatons

Livestock Global CO2 emissions

Devastating effect on climate!!

Market Opportunity

Growing demand for alternative protein powder among food & beverages manufacturers and end-consumers.



UNTAPPED MARKET POTENTIAL

UNMET CONSUMER NEEDS

Solution



**WE
OFFER
PREMIUM
ALTERNATIVE
PROTEIN
POWDERS**

Competitive Edge

VEGAN

SUPER ECO-FRIENDLY

GLUTEN-FREE

COMPETITIVE PRICE

ORGANIC

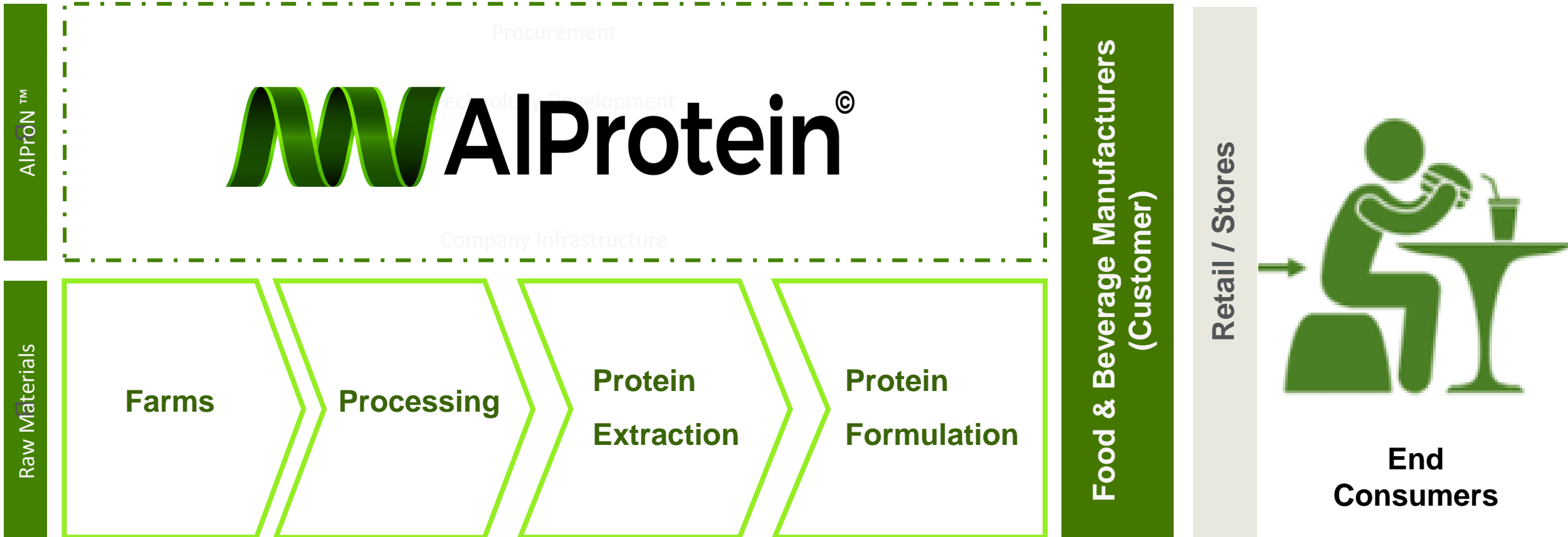
BETTER FORMULA

BETTER TEXTURE



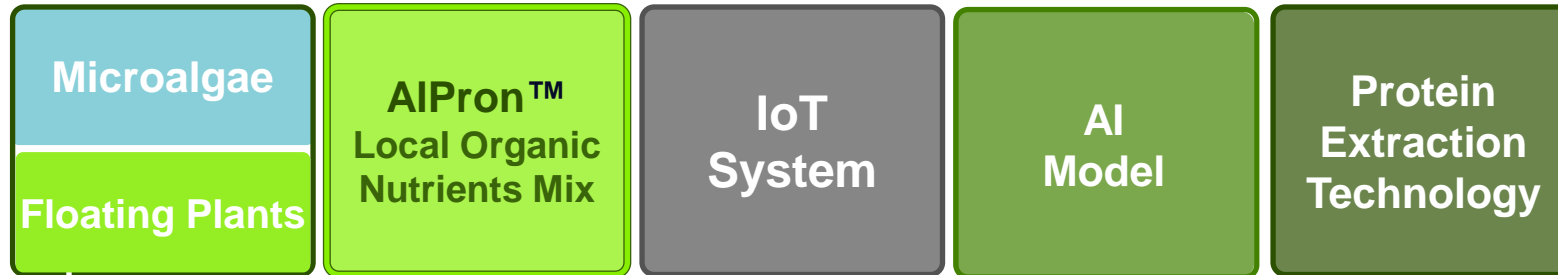
Business Model

AlProtein generates revenue by selling protein powders B2B to Food & Beverage Manufacturers through cutting-edge technology.



Our Technology

Next-Gen AI-Powered Biomanufacturing Platform



“Special Strain”

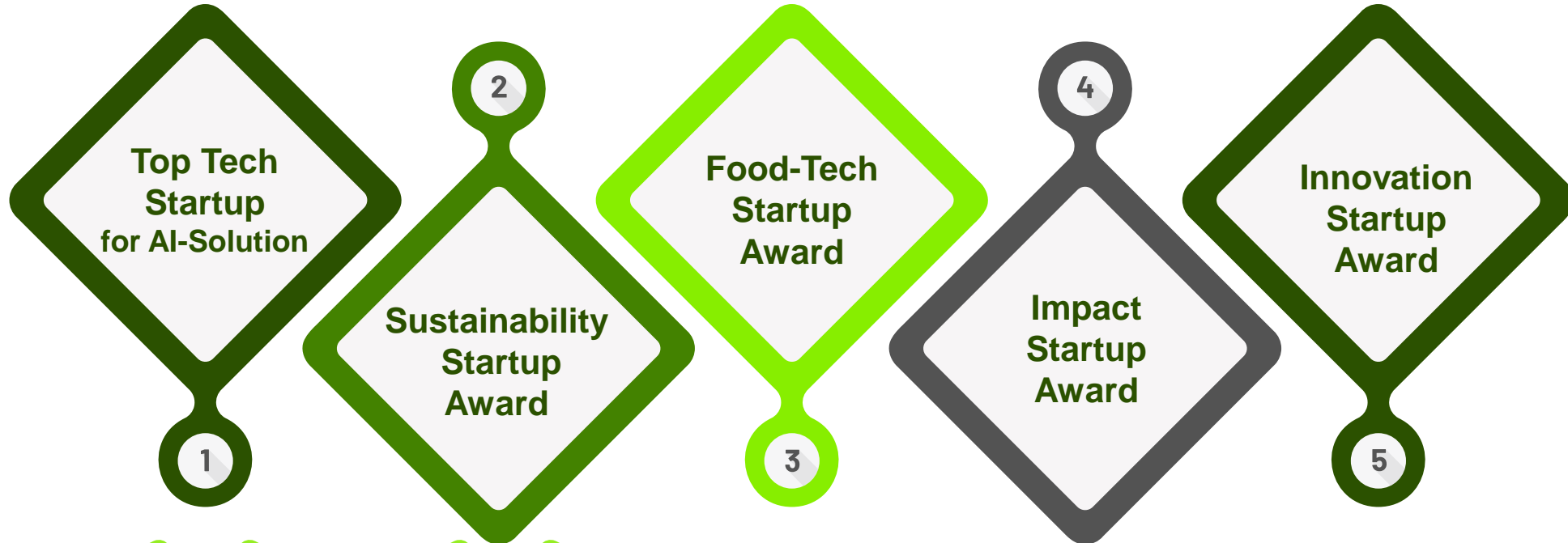
“Trade Secret”

“Proprietary Technology”

“Patent”



Technology Awards



100,000 USD
Prize



15,000 EUR
Grant



13,000 EUR
Grant



10,000 EUR
Grant



200,000 EGP
Grant

Target Market Segments



60 Billion USD

Alternative Proteins Total Market by 2022

11.3 Billion USD

Plant-Based Protein Powders (TAM) by 2022

4.5 Billion USD

Target Market Size (SAM) by 2022

1.5%

SOM

Target by 2030

WHY ALTERNATIVE PROTEINS

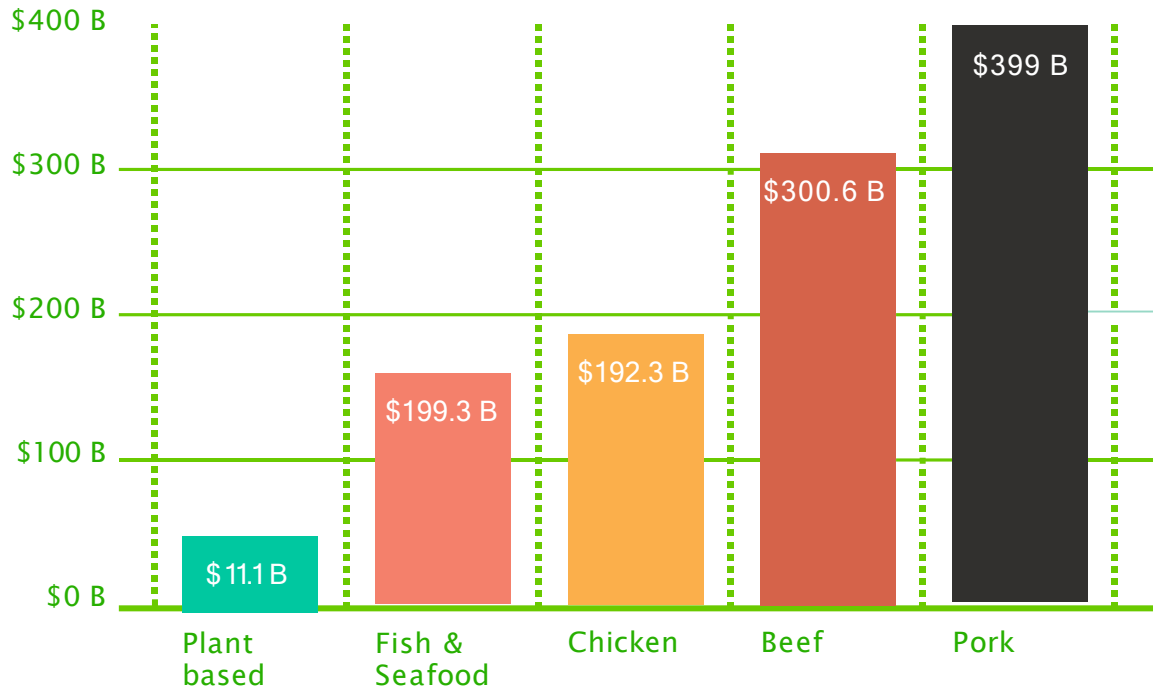
Market Growth

Alternative Proteins Market will reach 290 Billion USD

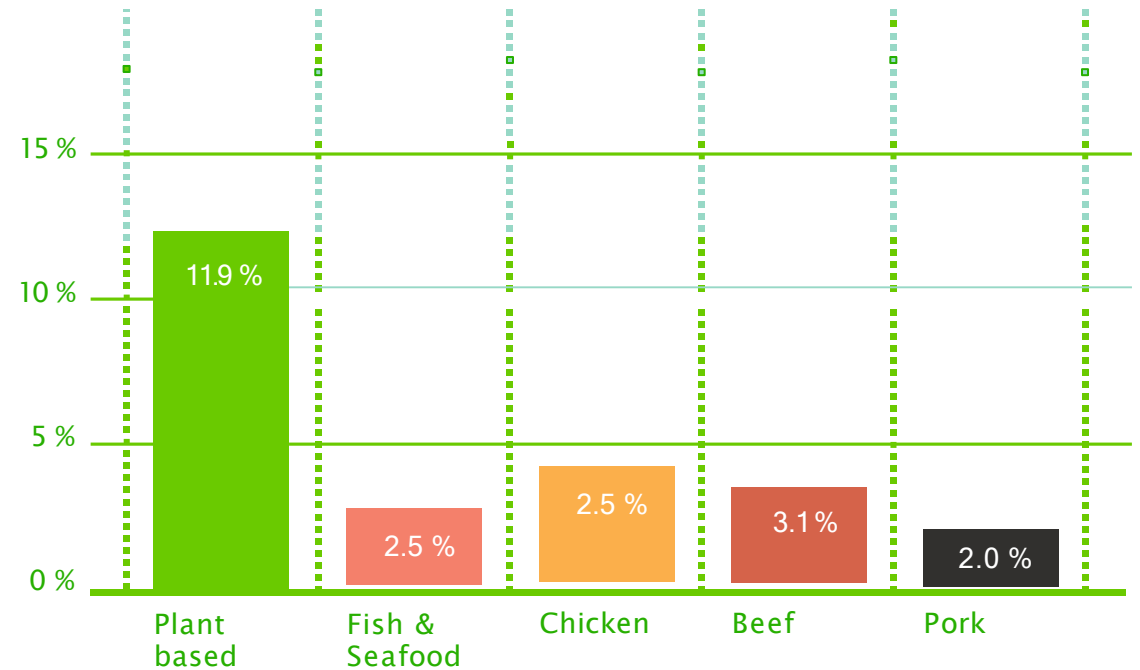
Estimated CAGR Up to 2027

CURRENT MARKET POSITION

Plant-Based Proteins for example Is Still a Fraction of the Global Protein Market.



2017-2020 Market Values in Billions of USD



FUTURE MARKET GROWTH

Plant-Based Protein Demand Is Growing Significantly Faster Than its Peers.

Plant-Based: <https://www.fdbusiness.com/plant-based-meat-market-to-be-worth-35-4-billion-by-2027/>

Chicken: <https://www.indexbox.io/events/global-chicken-meat-market-2020/>

Beef: <https://www.grandviewresearch.com>

Pork: <https://www.transparencymarketresearch.com>

Fish & Seafood: <https://www.statista.com>

Competition Analysis

	Eco-friendly	Vegan /Gluten-Free	Price Sensitive	Production-Compatible
AI Protein	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
Direct Competitors	✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓	✓ ✓ ✓
Protein Crops Products	✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓
Animal-based Products	✓	✓	✓ ✓ ✓ ✓ ✓	✓ ✓

Roadmap

1 DEMO

JUL 23 – JAN 24

- **CAPACITY:** Up to 100 KG/Month
- **TECH:** Test batches/AIoT Dev/Protein Purification Dev/TRL 6
- **CASH:** 75,000 USD
- **AIM:** Tech Scaling

2 PILOT

FEB 24 – SEP 24

- **CAPACITY:** Up to 300 KG/Month
- **TECH:** Quality Control/IP Filing/EU Certification
- **CASH:** 125,000 USD
- **AIM:** Production Optimisation

3

COMMERCIAL

OCT 24 – JUN 25

- **CAPACITY:** Up to 1000 KG/Month
- **TECH:** Quality Assurance/Protein Isolates/Product Diversification
- **CASH:** 175,000 USD
- **AIM:** Traction Growth

Impact



No Arable Lands

Our solution don't use any fertile lands



No Fresh Water

We use brackish water and retain up to 85% of it

SDGs:

Lemna Spirulina 80% Nutritional Yield

Land: water: Emissions:

We use super species with better tech for better planet

Soy 46% Nutritional Yield

Land: water: Emissions:

Pea 28% Nutritional Yield

Land: water: Emissions:

Beef 26% Nutritional Yield

Land: water: Emissions:



Meet Our Founders



Omar Zagloul

Co Founder & CEO



Mohamed Almoatasem:

Co Founder & CCO



Mohamed Elsayed

Co Founder & CTO



Meet Our Board



Dr. Mostafa Mousa, PhD

Board Member

Aquafarming
& Water Management

30+ Years
Industry
Experience



Dr. Mostafa Abdallah, PhD

Board Member

Systems Optimisation

25+ Years
Industry
Experience



Meet Our Advisors



Dr. Dina Marrez, PhD

Advisor

Algae Production

20+ Years
Industry Experience



Dr. JJ Mes, PhD

Advisor

Food Processing

30+ Years
Industry Experience



Dr. Ingrid Meer, Ph.D.

Advisor

Protein Purification

20+ Years
Industry Experience



Dr. Abderahman Mayhoub, Ph.D.

Advisor

Food Production
& Quality Control

20+ Years
Industry Experience



Partners in Success



SEKEM

Research and Farming partner in heart of Heliopolis University for Sustainable Development

[Visit Site](#)



GIZ

GIZ provides technical expertise, develops capacities, and delivers effective solutions in close partnership with local governmental organizations.

[Visit Site](#)



Zewail City

Technology partner for the office spaces, bench spaces and technical mentorship supporting research activities

[Visit Site](#)



ENI CBC MED

The largest Cross-Border Cooperation (CBC) initiative implemented by the EU under the European Neighbourhood Instrument (ENI).

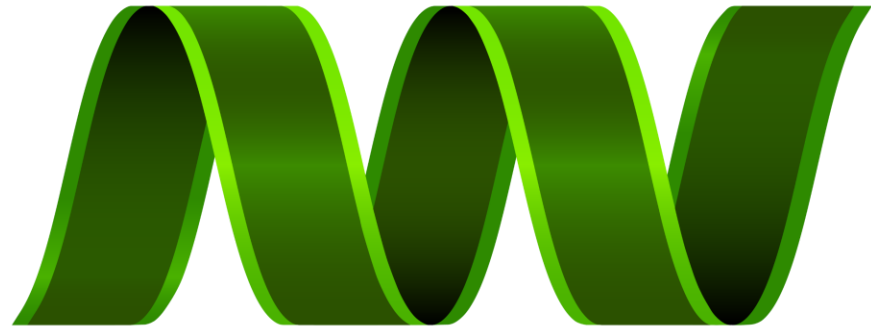
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Sustainable Planet

Technology partner and distribution channel for the plant-based products, active at 7 countries in Europe & MENA

[Visit Site](#)



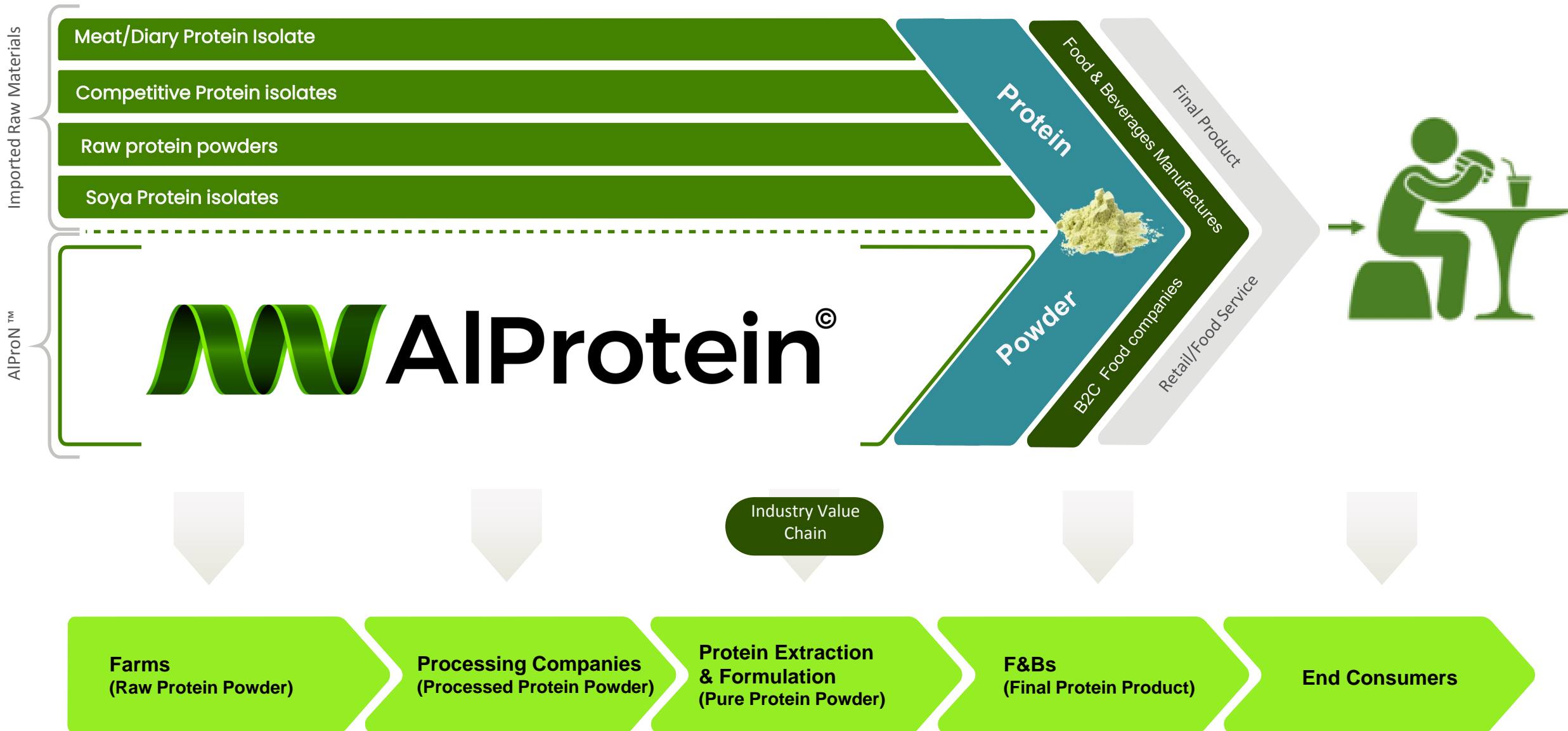
AlProtein[®]

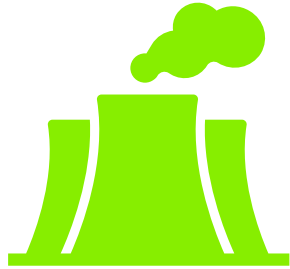


***JOIN US LEADING THE SECOND GROWTH WAVE
OF ALTERNATIVE PROTEINS***

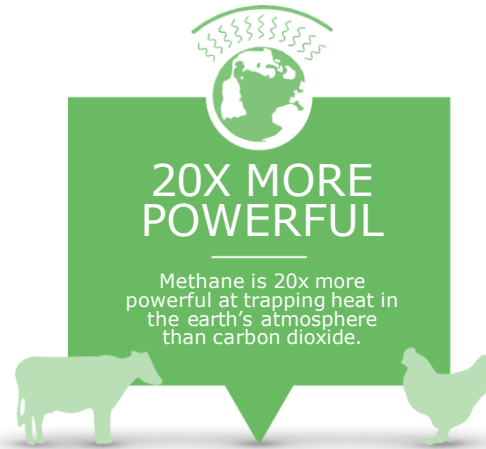
APPENDICES

Value Chain Analysis





Meat Production Effect on Climate:



METHANE

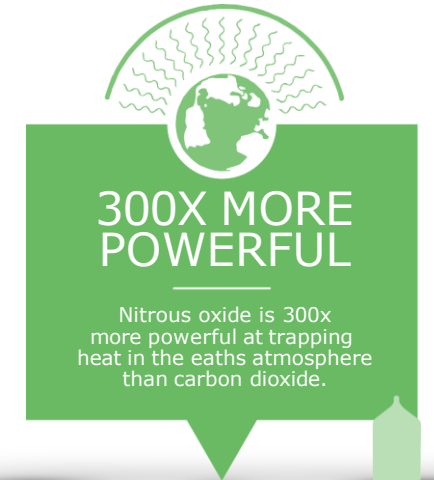
Chickens, turkeys, pigs and cows are collectively the largest producers of methane in the U.S.

65%



NITROUS OXIDE

The meat, egg and dairy industries produce 65% of worldwide nitrous oxide emissions.



50% **WATER** Nearly 50% of all water in Europe goes to raising animals for food.

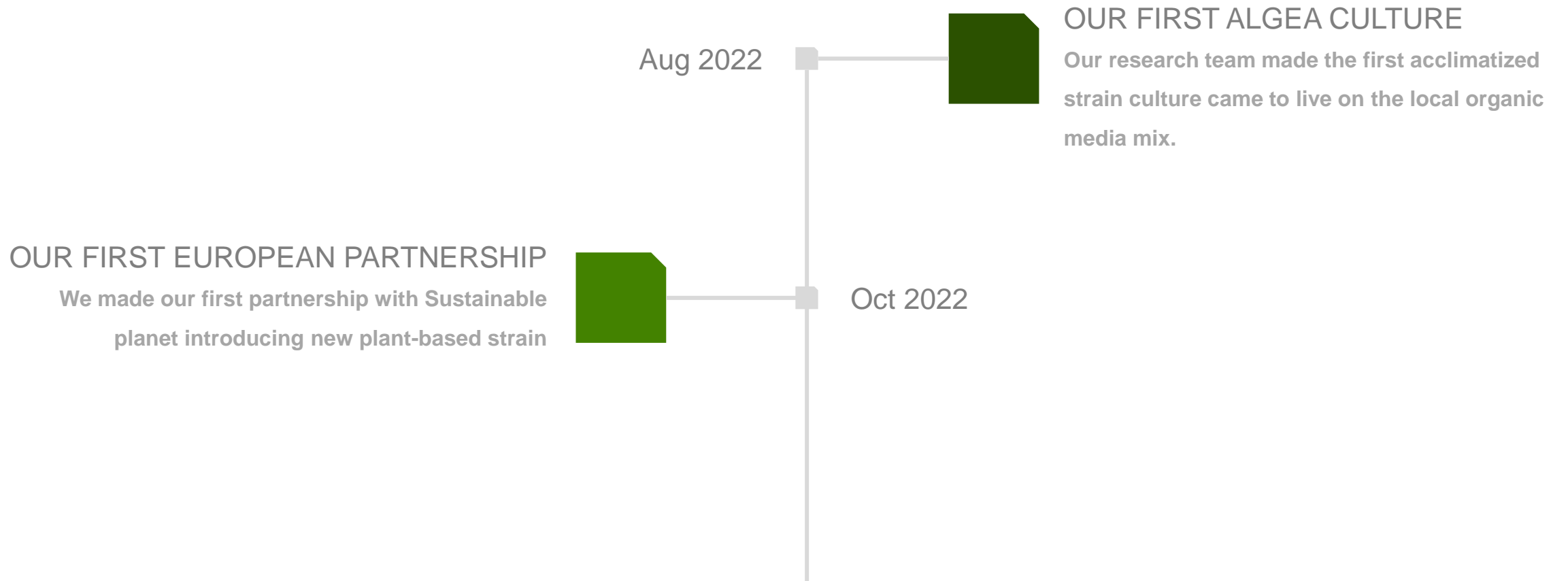
2,400 gallons =
1LB of meat

VS

25 gallons =
1 pound of wheat.

Our Journey

Over 300 days with amazing family



OUR LAB SCALE OF THE HYBRID-BIOMANUFACTURING PLATFORM

We achieved adapting the two high-value strains on our organic nutrient mix introducing first hybrid system that integrates microbial-based and planet based in water sustainable system



Dec 2022

Feb 2023

OUR FIRST AIoT System

We build our first alpha version of the deep learning algorithms integrated with the IoT system to improve the biomanufacturing process efficiency

OUR PRE-SEED ROUND

We are targeting to raise 250K USD in our next pre-seed round



June 2023

**OUR FIRST
SCALE PILOT PLANT**
We will launch 1-acre pilot manufacturing plant



Feb 2023

Sep 2024

OUR EUROPE CERTIFICATION
We will register the powder certification under
the food supplements from the European Union
commission

**OUR PROTEIN ISOLATES
COMERCIAL BATCH**
We will optimize and produce first 100 KG
protein isolate powder batch



Mar 2025

How we retain 85% of water used?

With no arable land used, only brackish water

