



CORPORATE PRESENTATION

Q2 2023



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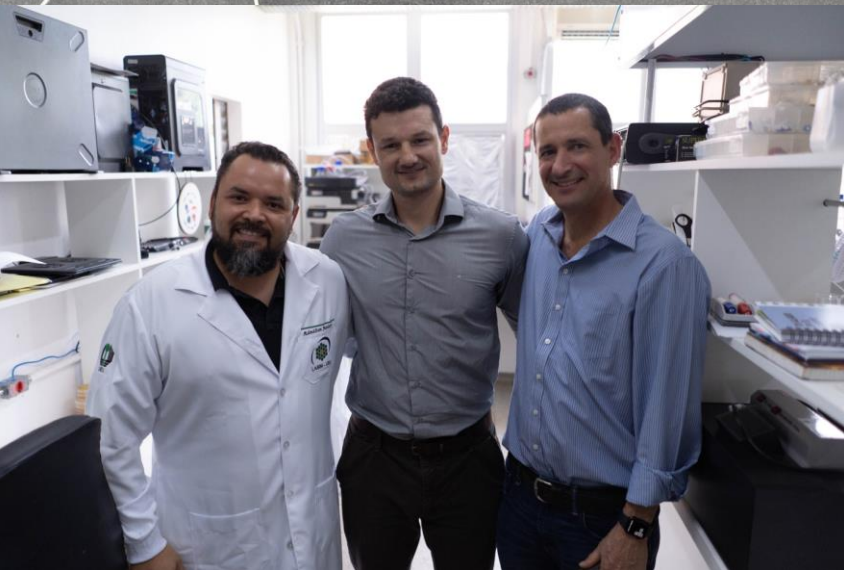
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GRACE BREEDING

is an AgClimateTech company providing sustainable agricultural solutions for sustainable food supply

Replace climate-harmful,
synthetic products
while protecting the
environment

Protect crops from the
effects of climate change
stressors
while supporting profitable
crop production for
farmers

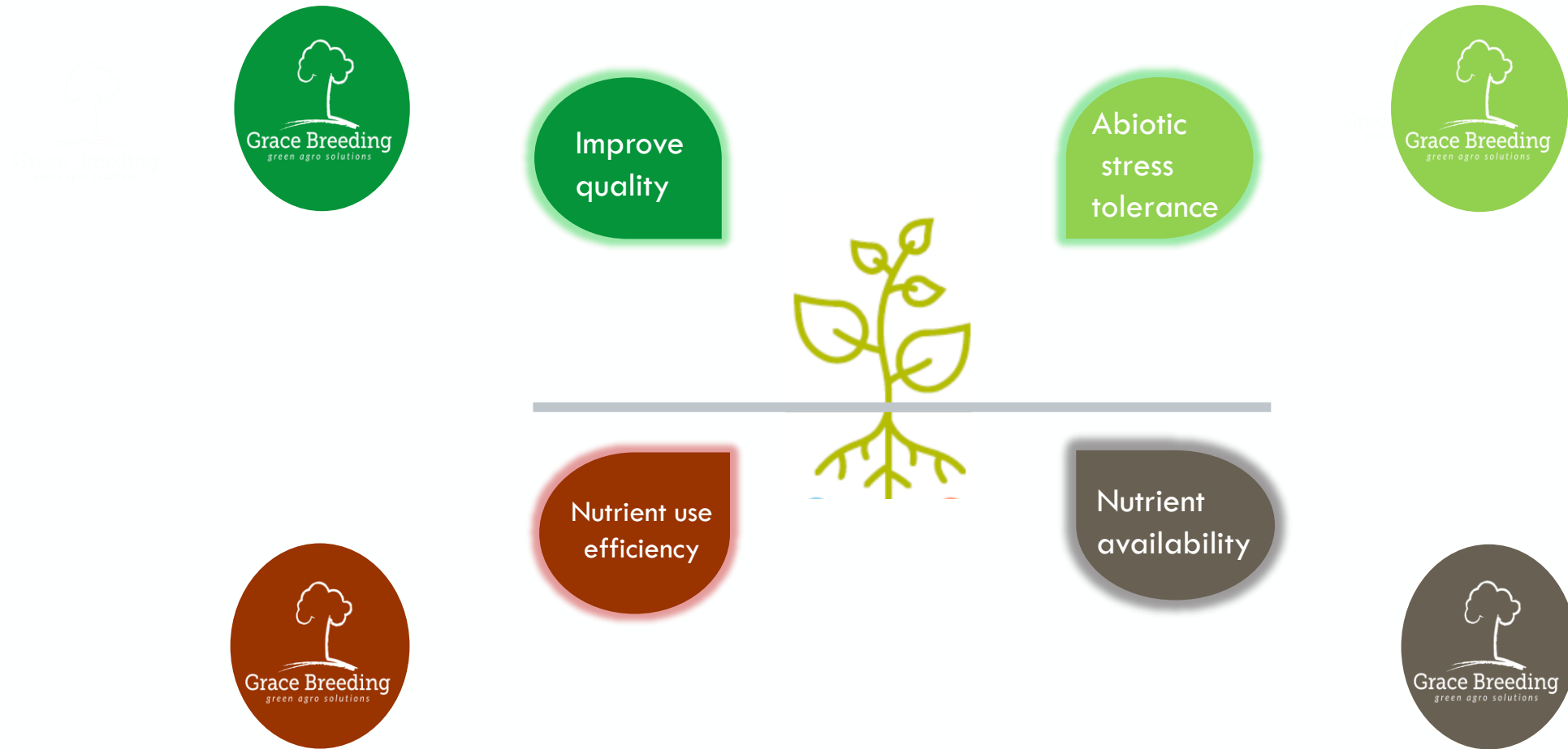


**See our lab., greenhouse and
field-level scientific and GTM trials**

[Video here](#)

Biologicals market Product Positioning

Bio-Fertilizers and Bio-Stimulants



Investment Highlights

- **Emerging leader in agricultural technology** providing solutions to protect crops from ongoing effects of climate change
- **Operating in large and growing addressable end markets**
 - Biofertilizers represent a global TAM of \$45 billion with a CAGR of 10.9%
- **Leading programs** are two novel, patent-pending, biological environmental Biofertilizers & stress tolerance technologies (NFT & WDS)
- **Reduce carbon emission, reduce reliance on synthetic fertilizers by 50% & increase yield in 20-30%**
- **Powerful unit economics and economies of scale** through availability to procure raw materials efficiently
- **Simplified regulatory pathway**, enabling the company, according to the company estimation, to launch commercially in Brazil mid-2024
- **Strong IP protection** with four separate utility patent applications
- **Validating strategic partnerships** and close industry relationships support R&D and pre-commercial efforts
- **Seasoned management team** with decades of combined cumulative experience in fertilizers, plant protection, and food supply

Upstream and Downstream Solutions to Support a Crop's Sustainable Growth Lifecycle

1

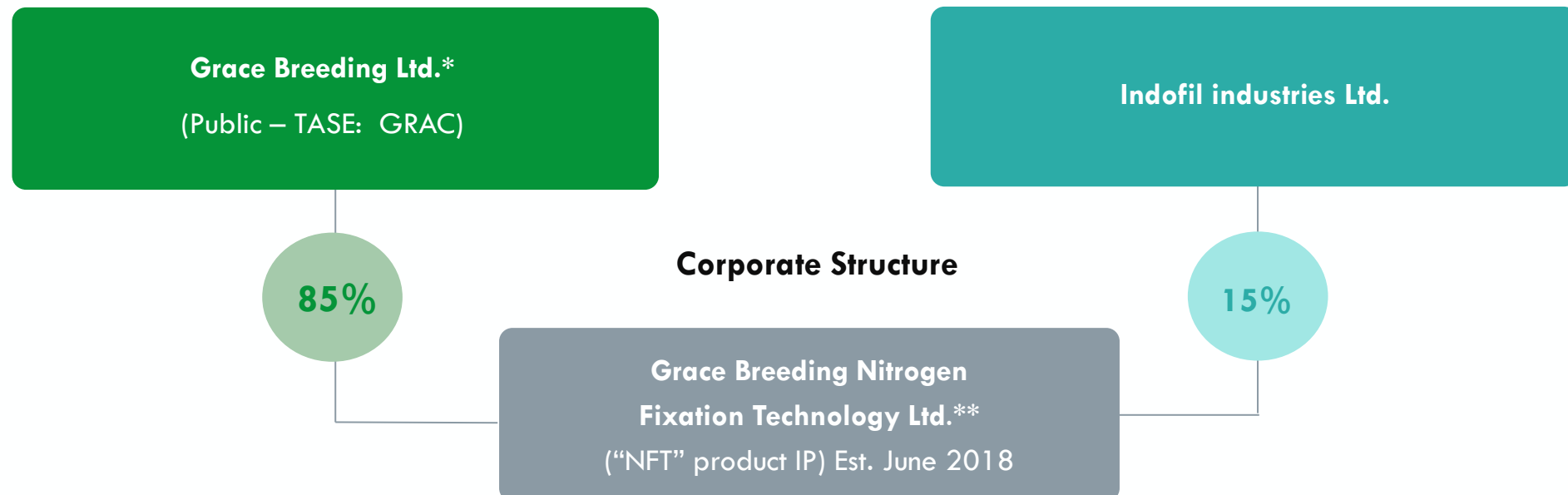
Upstream: “NFT” (Bio-Fertilizer)
Replaces climate-harmful, synthetic urea

2

Downstream: “WDS” (Climate Stress Solution)
Improves the crop tolerance to withstand abiotic climate stress

Company At-a-Glance

Established	2015
Headquarters	R&D center located in Israel's Rehovot's science park
Employees	12
Experience	Management with years of accumulated experience in the areas of Agtech, fertilizers, plant protection and food.
IPO	Feb 2022 (TASE: GRAC) with a market CAP ~ 100 Million ILS



Management



Morris Zelkha, Chairman of the Board of Directors

Founder and former CEO of LycoRed for 24 years
head of new product development Negev Phosphate ICL



Assaf Dotan, CEO

Senior Manager at ADAMA Agricultural Solutions Ltd.; entrepreneur in the ag-innovative world; former CEO of Casterra Ag. Former Ag Investment Advisor for Fortissimo Capital and RDC



Amit Avidov, CTO

Innovative agronomist and senior plant breeder with more than 30 years of experience and over 600 registered plant varieties attributed to his work



Professor Yoram Kapulnik,
Scientific Advisory Board - brings over 40 years experience in Life Science Innovations Industry and is a global expert in nitrogen fixation.



Valdemar Fischer,
Advisory Board – brings decades of experience in agriculture and leadership as Non-Executive Chairman at Syngenta Latin America



Moti Mordehai, CCO

Global Senior Manager at ADAMA Agricultural Solutions Ltd.; GTM expert with launch-to-commercial life cycle management experience & a deep understanding of the relationships between producers, distributors and product end-users



Orly Shuster, CFO

Graduate of the CPA firm EY Israel with 20 years of experience in accounting and economic services for a variety of private, public and governmental entities



Ricki Lahav, COO

Formerly head of budgeting and strategy at Evogene, with over 20 years of experience in sales, travel and administration at high-tech and agricultural companies



Shaul Friedland,
Director, Business Consultant - brings over 40 years of commercial expertise in the agriculture industry. ADAMA Agricultural Solutions Ltd. and ADAMA Americas

The Advantages of Our Approach



GRACE BREEDING'S GREEN AGRO SOLUTIONS

- Climate stress resilience enhancement
- Biological source
- Nitrogenous technology
- Yield and quality
- Profitability
- Tolerance
- Provides ESG benefits to farmer

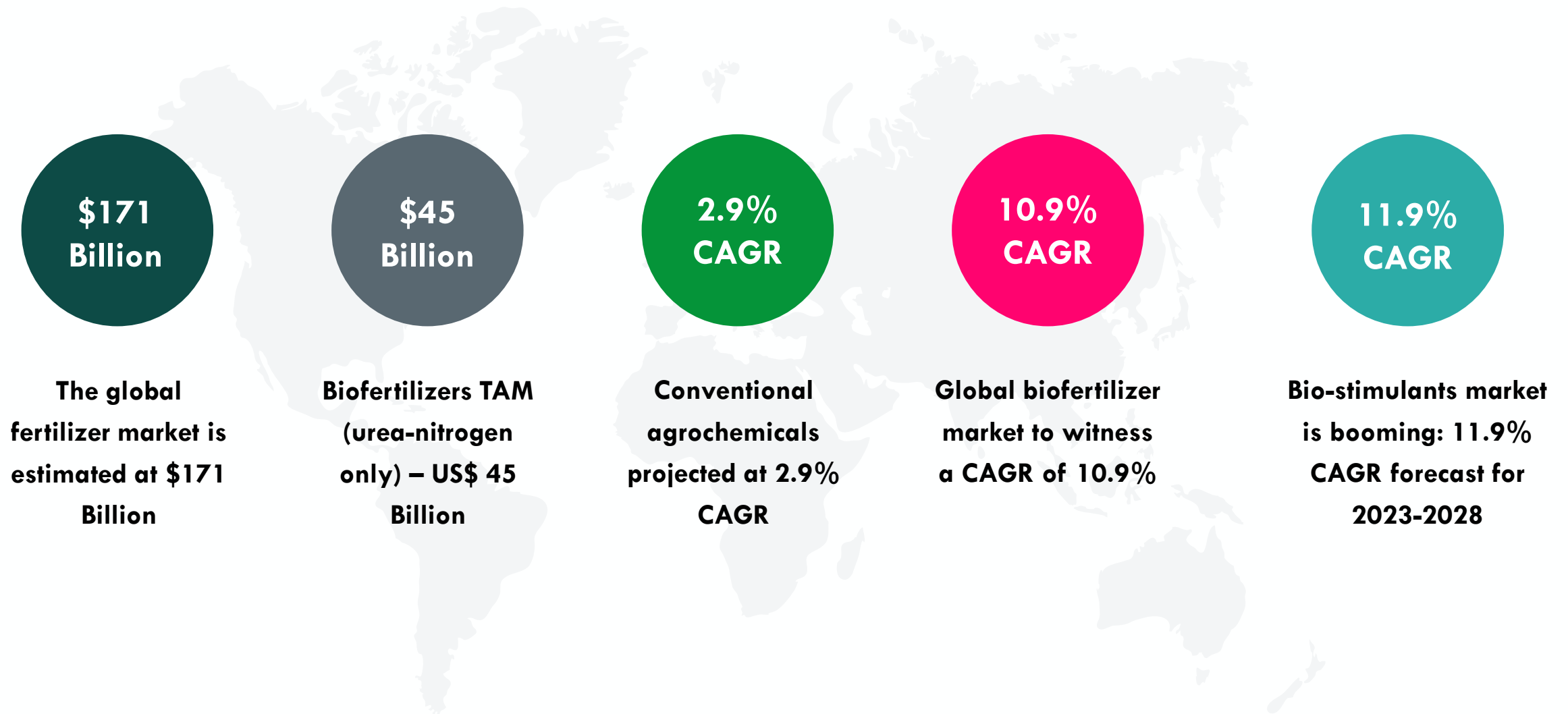


(examples of producers of legacy synthetic chemicals)

OTHER UNSUSTAINABLE COMPANIES

- Environmental pollution
- Environmental residue
- Resistance formed by crops
- Air pollution
- Water source contamination
- Higher priced

Over the last 20 years the investment in R&D expenditure of the conventional crop protection market has shifted



B2B Strategy Supports Core Environmental and Sustainability Pillars



Our B2B business model produces more robust and resilient industrial crops and improves distributor and farmer economics, while importantly, supporting ESG initiatives - responsibly reducing environmental impact with a lower carbon-footprint and lower greenhouse gas (GHG) emissions.

Environmental Pillar of ESG Reporting



Climate Change

Natural Resources

Pollution & Waste

Environmental Opportunity

Leaders at the United Nation's Intergovernmental Panel on Climate Change (IPCC) presented on 3/20/23 an Acceleration Agenda for developed countries to achieve zero emissions approaching 2030.

Bio-Fertilizer: NFT business model

Product Benefits:

- Reduce reliance on synthetic nitrogen by 50%
- Abiotic stress tolerance solution
- Reduce carbon emissions to earn carbon credits
- Increase yield

Business models:

1. Direct

Product benefits

Flexibility to deal directly to farmer or through a dealer

2. In-direct

Earn Carbon Credits

Farmland owners potentially move to farming carbon credits



Climate Change May Cause Corn Yields to Fall;

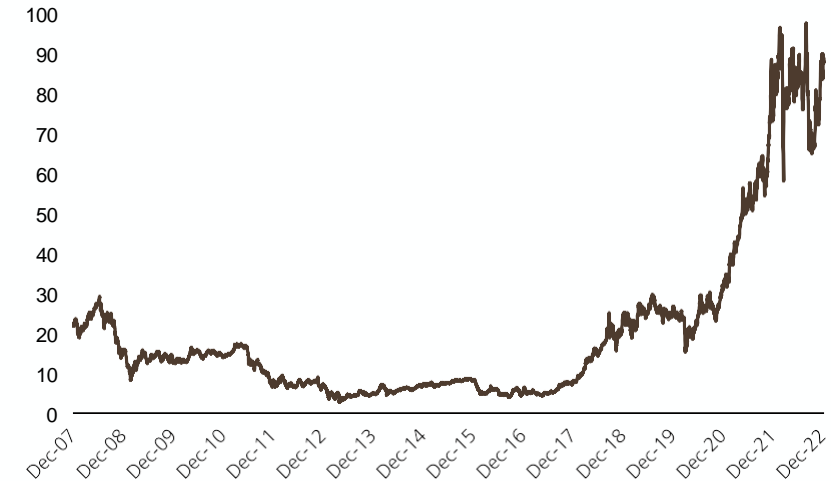
A NASA study forecasts climate change to affect corn and wheat production as early as 2030.

With higher temperatures and surface CO₂ concentrations as well as rainfall pattern changes, corn yields could **fall by 24%** from current levels



Farmland Owners May Move to Farming Carbon Credits

Figure 21: EU carbon allowance price

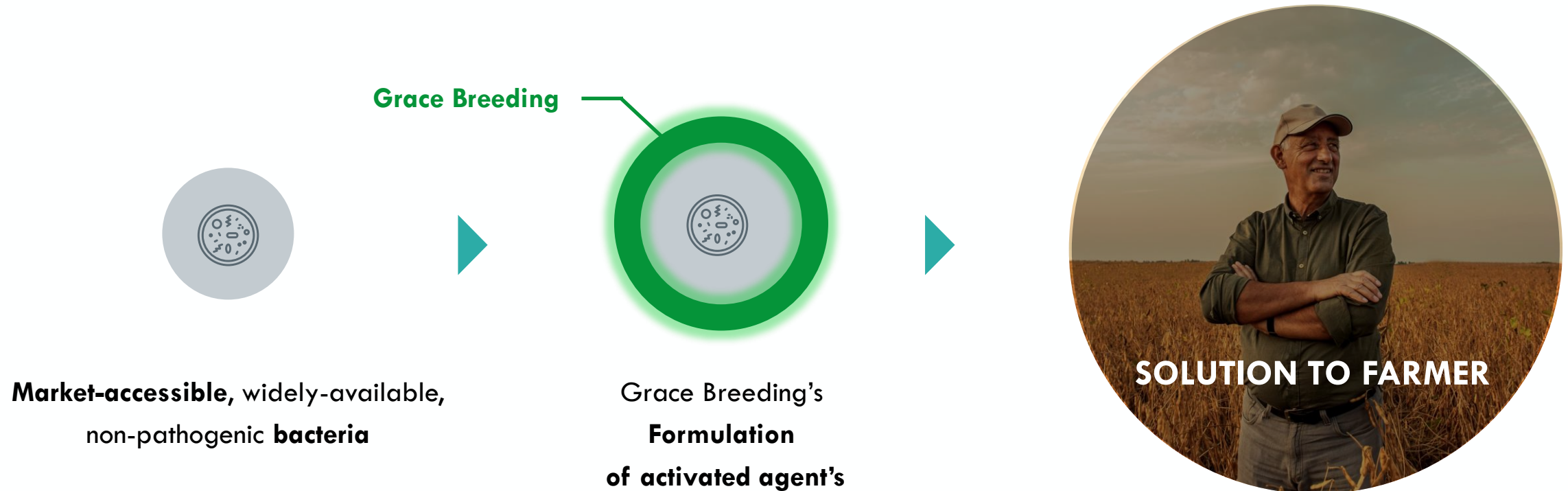


The price for EU allowances have increased nearly four times over the past two years

A more robust carbon credit market could set up competition for traditional agriculture.

Our Technology: How We Are Differentiated Within the AgTech Industry

Disrupting a multi-billion-dollar industry* with solutions to fertilize sustainably and enable crop tolerance and vigor



Proprietary IP solutions that result from years of research evaluating a thousand biological molecules and their combinations with non-pathogenic bacteria

Our Pipeline

Our transformative product lines

Product Candidate	Discovery	Field Trial 1	Field Trial 2	GTM	Commercial*
Proprietary Bio-Fertilizer (“NFT”)					
Stress Tolerance Enhancer (“WDS”)					
R&D					

NFT = Proprietary bio-fertilizer that is a natural replacement to synthetic fertilizer and serves as a urea replacement; environmentally friendly to air, soil and the aquifer; naturally provides nitrogen to cereals

WDS = Proprietary bio-stimulant that serves to increase yield and improve the crop tolerance to withstand abiotic climate stress

*Development consists of field testing 2-3 season cycles per crop

Grace Breeding's products Recent Development

10/26/22

Grace Breeding Announces its Wide Defense System (WDS) Improves Industrial Tomato Yield by 17% Based on Field Trial Results

[Click here for press release](#)

1/25/23

Grace Breeding Study Results of its Proprietary Environment- Friendly Bio-Fertilizer ("NFT") Show Superior Growth Results in Brazilian Corn, Outperforming Standard Nitrogen Fertilizers While Reducing Carbon Emissions

[Click here for press release](#)

11/15/22

Grace Breeding Forms Collaboration with the Prestigious University of Londrina (UEL) Located in a Major Agricultural Center of Brazil to Study and Validate the Crop Vigor Benefits of its Nitrogenous Technology

[Click here for press release](#)

3/6/23

Grace Breeding and Evolva Holdings Partner to Develop Next-Generation, Sustainable Crop Yield and Resilience Solutions

[Click here for press release](#)



NFT (Proprietary Bio-Fertilizer)

The Problem: The Use of Urea is Not Sustainable

- Urea (Nitrogen), is the most common fertilizer in agriculture worldwide
- 1MT of urea production in the U.S. = 1.84 MT of gas emissions (CO₂)
- Global production of urea = CO₂ emissions of 120 million cars annually!



**Urea's global
market size**



**Urea's production
consumes high
amounts of
energy**



**Urea emits more
CO₂ than any other
industrial chemical
reaction**



**Several EU countries
already ban the use of
urea**

The Solution: NFT



Naturally provides nitrogen to crops in synergy with available bacteria; reduction of 50% in use of urea



Farmer cost savings expected per:

- Reduced volume and dose per Ha. (1:25)
- Reduced application frequency



Environmentally-friendly to air, soil and the aquifer



Carbon credit:

- NFT use in corn reduce carbon emission
- Low-carbon-footprint-product with ESG benefits
- 1 Tonne CO₂ = 1 Carbon credit



In field trials, NFT demonstrated it was as efficient as and competitive with urea, suggesting it may be an ideal potential replacement



Distributor higher profit. Lower volume equals to less storage footprint & land transportation costs and margins higher than the standard 2-3%

NFT Field Trial Results



T2: Nitrogen 100%

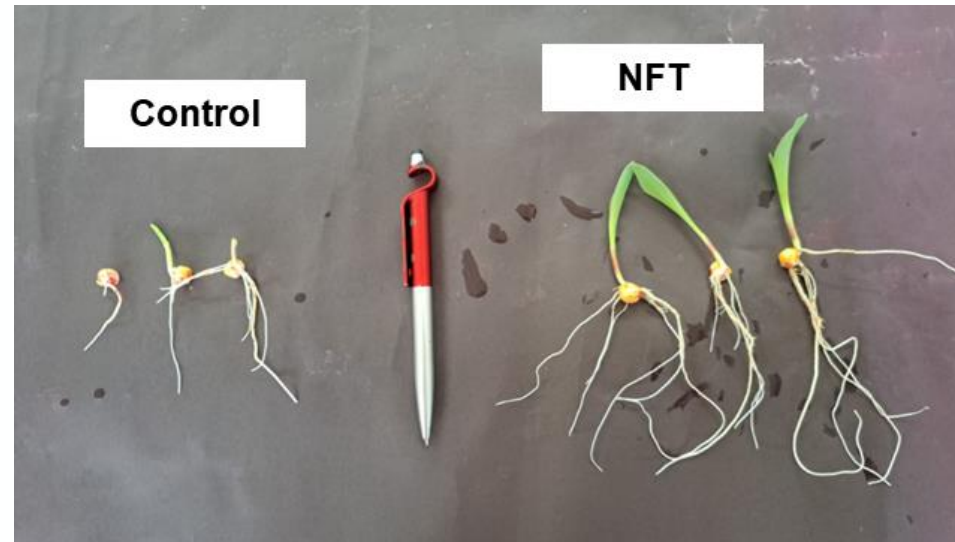


T11: Nitrogen 50% + NFT

2023

Brazilian Study Results in corn seeds treated with NFT (UEL, January 2023)

- Potential reduction of more than 50% of nitrogen in corn cultivation.
- Reduced carbon emissions
- Outperforms standard nitrogen fertilizers in almost all parameters



NFT Comparison to Urea in Maize (Corn)



Reduced volume &
dose per Ha. (1:25)

NFT amount applied per Ha.* – **20 L**

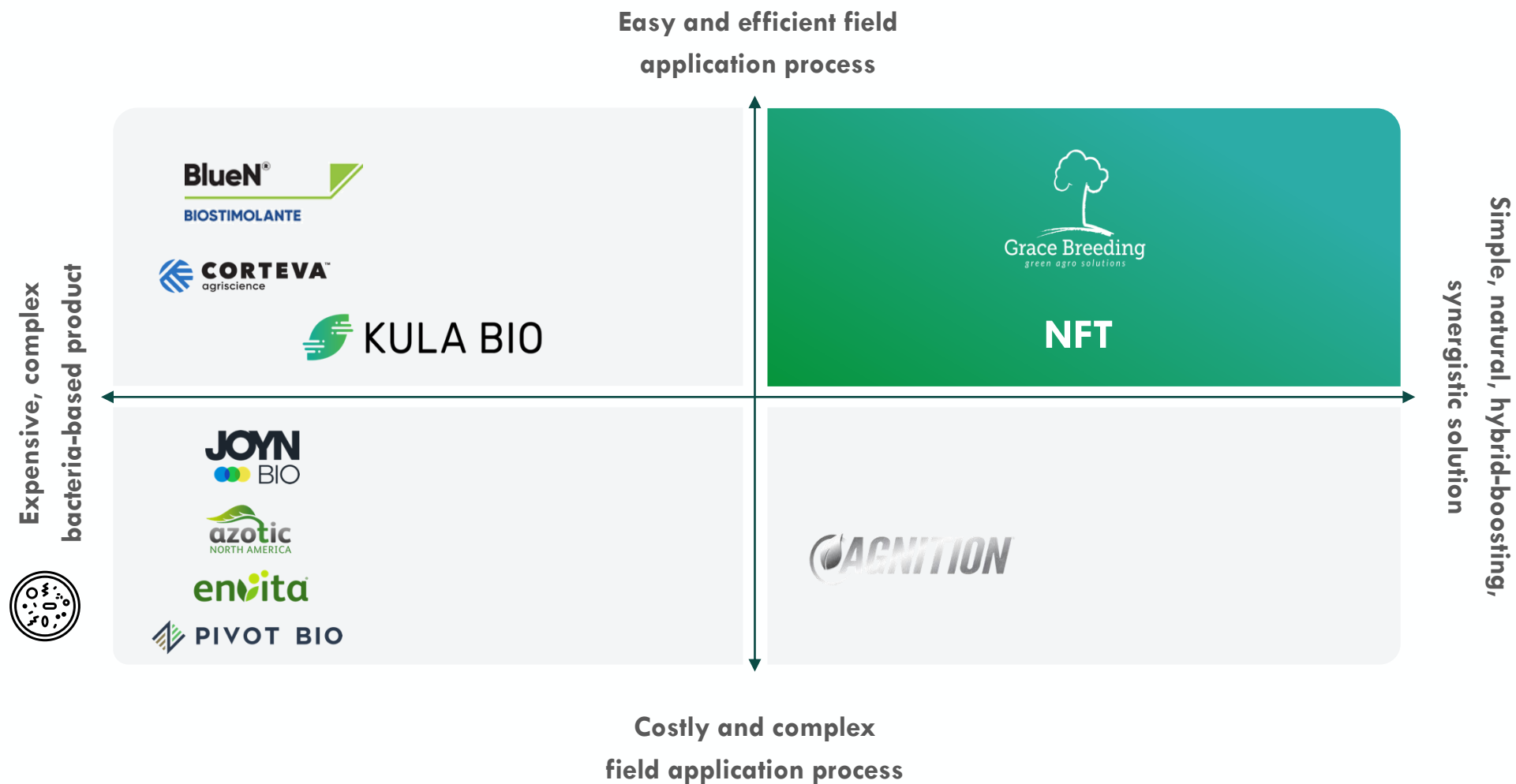
Urea amount applied per Ha. – **500 kg**



- ✓ Easy application method in the field. [Watch video here.](#)
- ✓ Farmer keeps similar agrotechnical tools and methodologies

* Reduction of 50% in use of urea

Bio-Fertilizer Approaches: Market Landscape



Joint Venture with Bayer
Crop Science



Joint Venture with Corteva



\$430M Series D @ \$1.7B
post-money valuation
(July 2021)



Private Investment by
Koppert



\$50M Series A @ \$210M
post-money (Jan 2022)



WDS (Proprietary Stress Tolerance Enhancer)

The Problem: Climate Change is Affecting Global Crop Production

Rising levels of atmospheric carbon dioxide (CO₂) reduces the concentrations of protein and essential minerals in most plant species (including wheat, soybeans, and rice) which would otherwise serve as nourishment. **This direct effect of rising CO₂ on the nutritional value of crops represents a potential threat to human health.**



Changes in temperature, atmospheric carbon dioxide (CO₂), and the frequency and intensity of extreme weather could have **significant impacts on crop yields**



If the higher temperature exceeds a crop's optimum temperature, **yields will decline.**



Changes in the frequency and severity of droughts and floods pose **challenges for farmers and threaten food safety** as well as disrupt ecosystems making it more difficult to grow crops.

The Solution: WDS

- WDS is a **stress tolerance enhancer**; a combination of naturally sourced ingredients with market-available bacteria
- **Protects against abiotic climate stressors**, addressing the supply problem for the farmer and the pricing threat to the consumer
- **Increases yield in 20-30%** and improves plant nutrient uptake and therefore fruit and vegetable quality
- **Widely applicable in variety of crops as** legumes, industrial tomatoes, vegetables, mangoes and avocado.



The Need for Environmental Stress Protection Solutions Has Increased With Episodes of Global Drought



Example: Tomato Supply Crisis

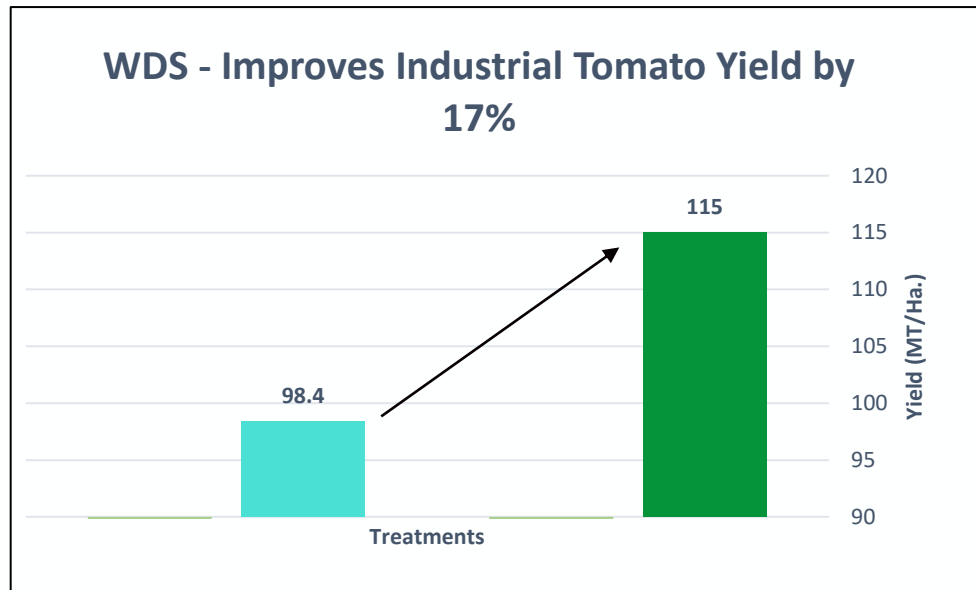
The global tomato processing market size reached **45.2M tons in 2022**, and, from 2023-2028 is expected to reach 56.5M, exhibiting a growth rate (CAGR) of 3.75%¹

In the U.S., **California is home to 90 percent** of domestic tomatoes

California, Italy, Spain and Portugal (**4 markets only**), represents **52% of the global market share**

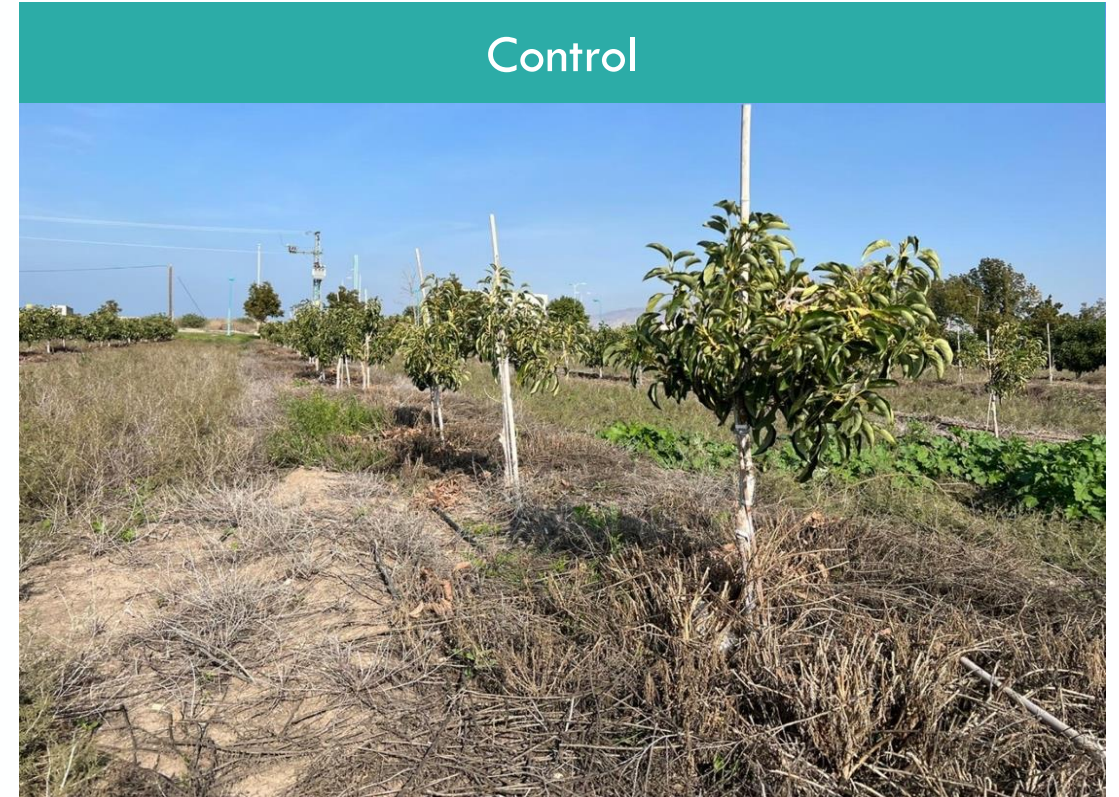
In the consumer sector, there is an expected mass **shortage of tomato-based consumer products**, including ketchup and spaghetti sauce as a result of the water shortage from recent and ongoing droughts.

The shortage presents a **threat of price increases** for the tomato processing sector, with supply expected to decline by 6% by 2050 in key regions²



The field trial (Israel, (2022) showed that the formula both boosted the growth of the tomato root system in different plots **and** improved the yield in amid various climate stress conditions.

WDS Trials in Avocados: 2020 – 2022



“ The WDS application saves me two years of growing and the additional cost of replanting; manpower and new plants.”
- quote from farmer

A photograph of a vast vineyard with rows of grapevines stretching towards the horizon under a dramatic, orange-hued sunset sky. A large, semi-transparent cyan circle is positioned on the left side of the image, partially overlapping the vineyard rows.

Target Market & Strategic Collaborators

Global Footprints

The company intends to start conducting field experiments and observations for marketing and sales around the world.



Brazil: Our First Strategic Market is An Agricultural Market Leader

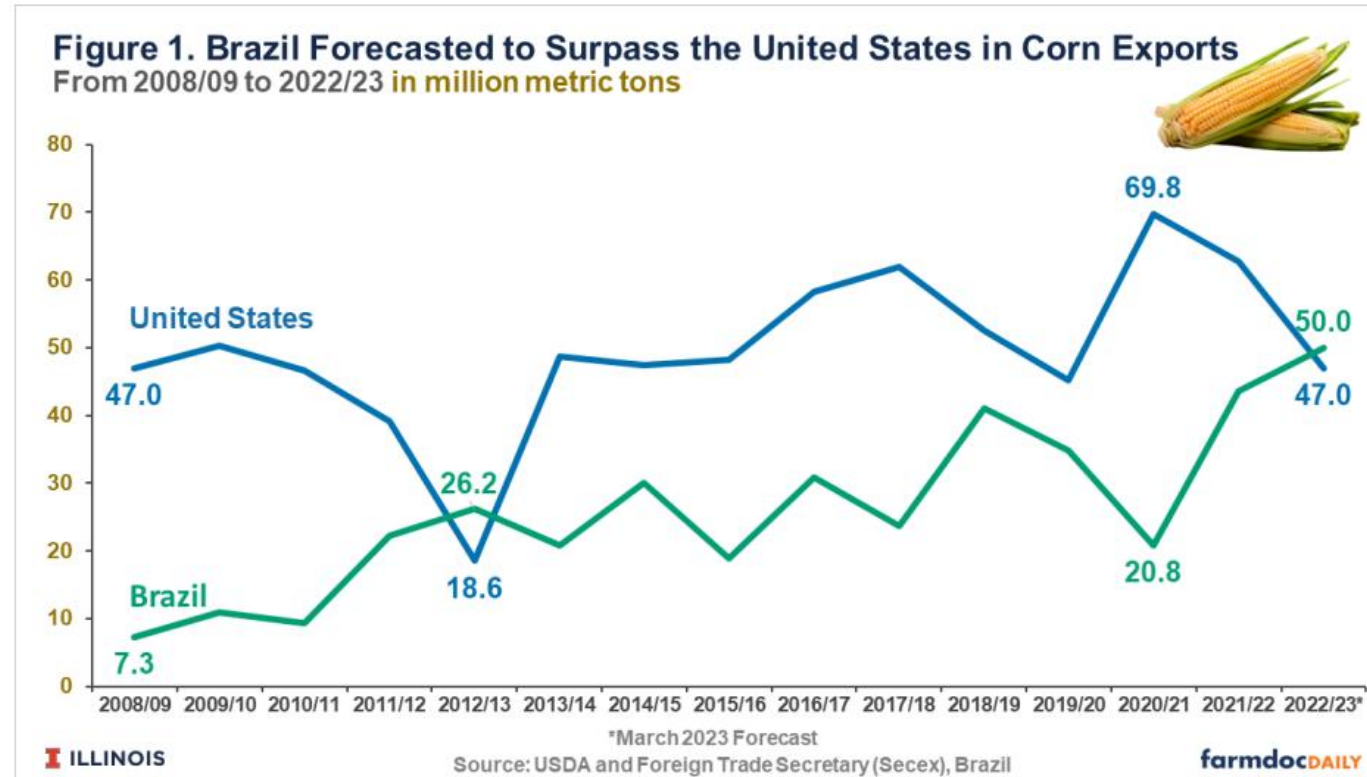


- With 42 million Ha. of soybean and 22 million Ha. of maize (corn), **Brazil is one of the largest agricultural markets in the world.**
- Brazil is **the largest agricultural chemical market in the world**, with a turnover of 13 billion USD.
- **Brazil is a major importer of fertilizers: 95%** of the urea used in corn and 75% of the phosphorus used in corn and soybeans is imported.
- **23%** of Brazil's annual **imported fertilizers** are from Russia.
- Russia is planning to impose an **export tax of 23.5%** on all fertilizers.
- The market of **biological products grew 40%** this last year in Brazil.
- Grace Breeding announced a **strategic R&D collaboration** with the **University of Londrina (UEL)**, based in Paraná State, Brazil (11/2022).



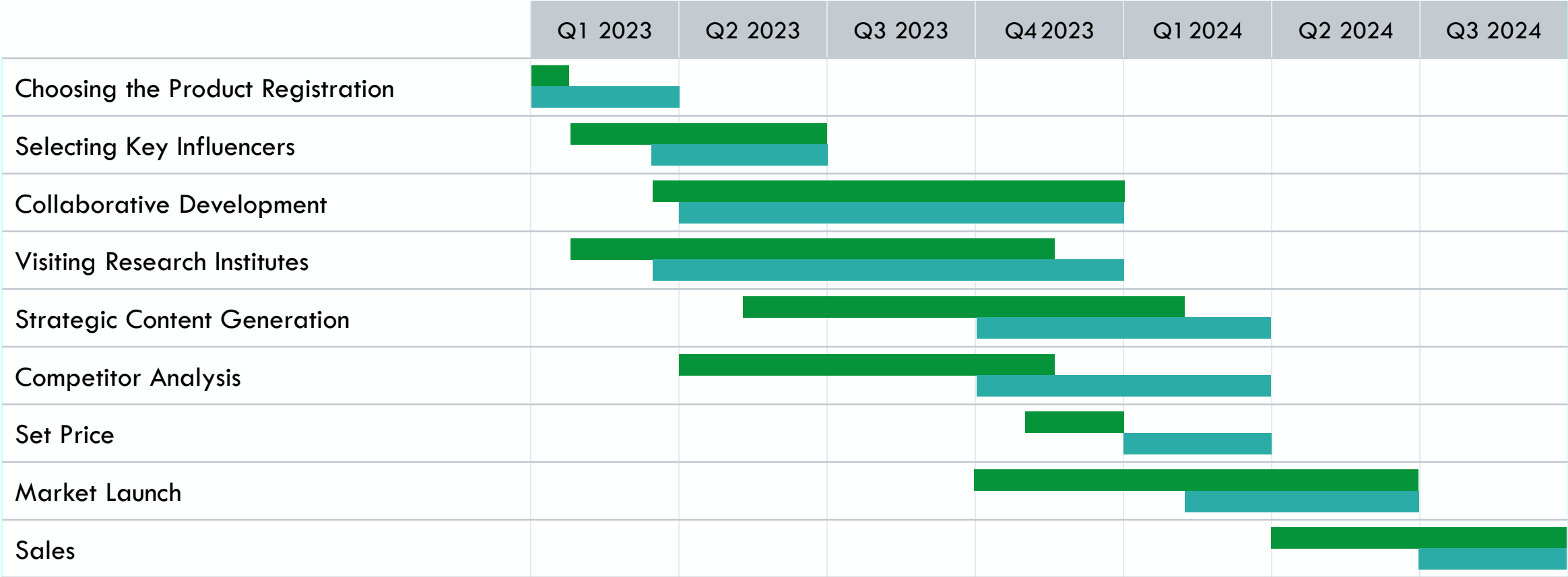
Geopolitical changes - Brazil is Forecasted to Surpass the U.S. in Corn Exportation

First shipment of Brazilian corn to China occurred in November 2022, after Phytosanitary agreement signed between the countries



In the 2021-2022 marketing year, the primary destinations of Brazilian corn were Iran, Spain, Japan, Egypt & Colombia

GTM Roadmap (Brazil): NFT and WDS



NFT WDS



GTM

Implementing a Hybrid GTM Strategy

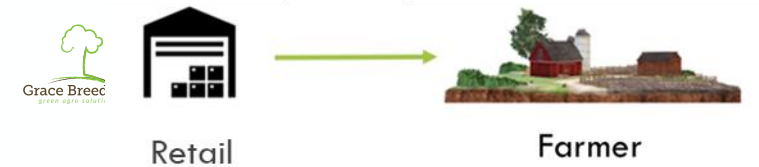
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Tier-1 Industry players



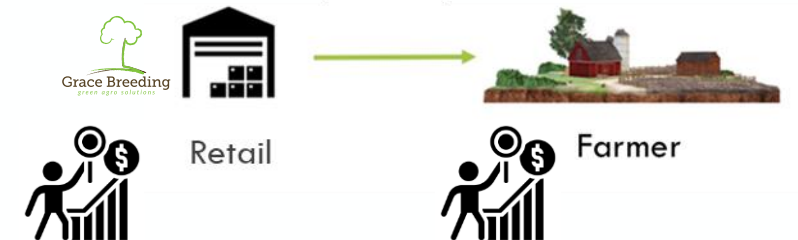
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Tier-2 & 3 Industry players

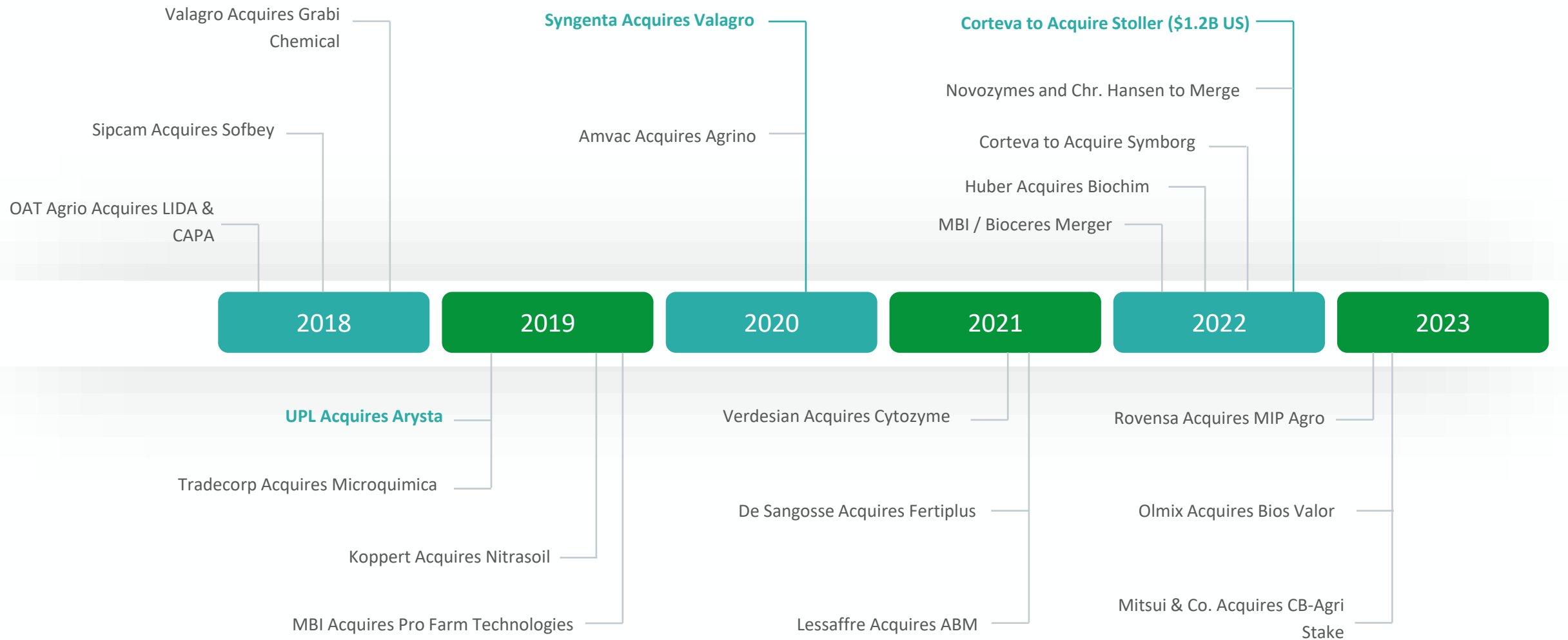


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Acting on demand creation at the retail/farm level.



BioStimulants Recent global M&A Activity



THANK YOU!

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Grace Breeding
green agro solutions