

Agrobotz

Pitch Deck





Agrobotz

Unleashing Productivity

in Horticulture

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Horticultural production is inefficient & prone to significant losses

US\$ 150Bi

Global Market Size for Production of Fruits & Vegetables

34%

Labor's share of the cost of production

30%

Production yield losses due to pest infestations

Suboptimal pesticide application has adverse economic, environmental, and societal impacts

US\$ 36Bi

Global Value of Pesticides Application Overdose

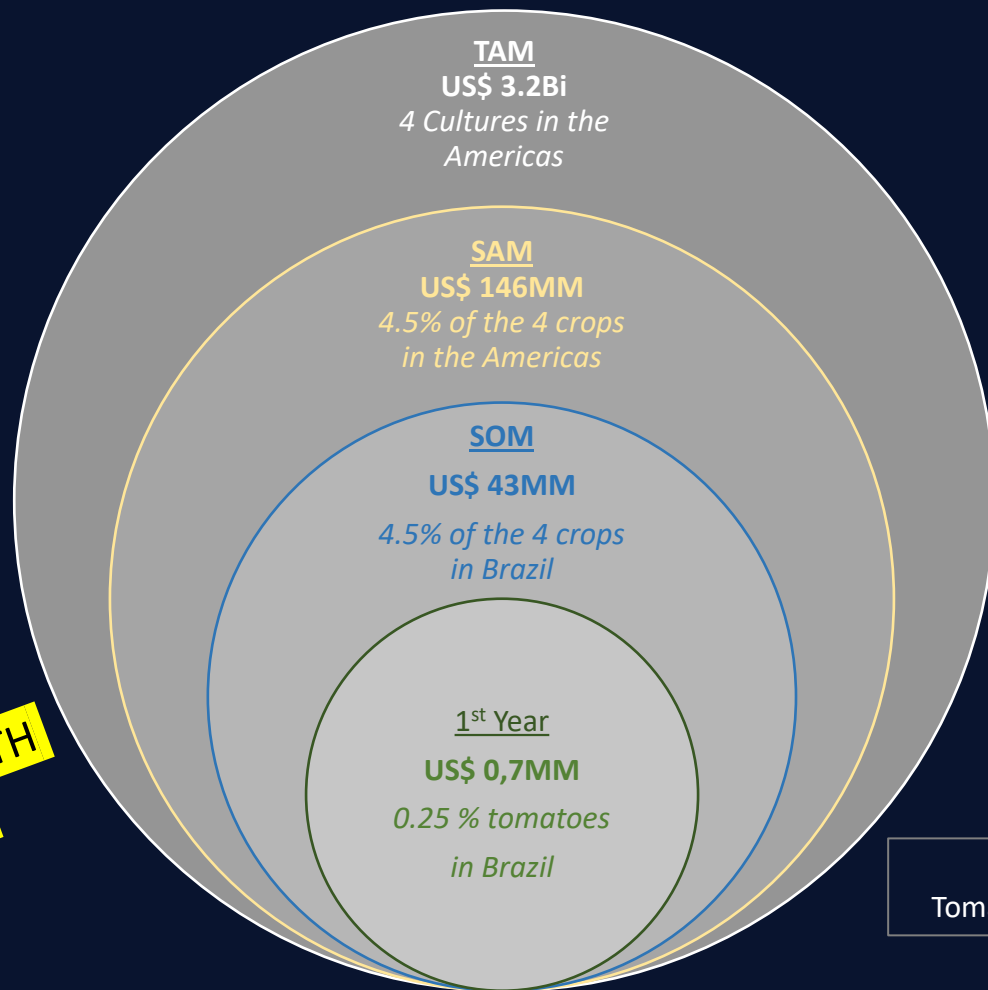
30

Years for some pesticides' environmental footprint to be effaced

44%

of producers suffer from diseases associated with pesticides exposure

Market Size



**TO BE REVISED
TO ALIGN BETTER WITH
TAM/SAM/SOM
CONCEPTS**

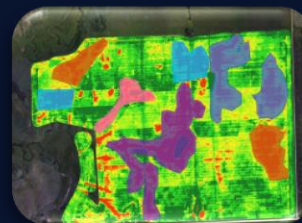
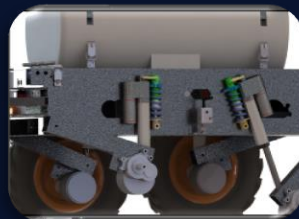
4 cultures
Tomatoes, Coffee, Oranges, Grapes

A system of autonomous robots to take on pesticide application
to deliver
cost savings and crop yield increases for the horticultor,
improved health and life quality for the workers,
and reduced footprint on the environment.



An meticulous integration of industrial design, robotics and AI to deliver a true lifesaver for the horticultor

- **Compactness, Superior Mechanics & Electrical Drivetrain**
Efficient operation through the tightest and roughest pathways
- **Computer Vision & AI**
Automatic regulation of spraying parameters for optimal coverage
- **Hybrid Navigation System**
Vision-dominated, collision-free navigation in the absence of a reliable GPS signal
- **Automatic Recharge & Refill**
100% automatic operation with no human intervention
- **Swarm Operation Management**
Scaling up of operations with increasing farm size
- **Plug-And-Play Modules**
Allow to take on an increasing number of labor-intensive tasks beyond spraying



Competitive Landscape (incumbent alternatives)



1 to 5:
Least to Most
Attractive

AGR 125/700



Manual
Applicator



Tractor Towed Atomizer



Sprayer Drone





Competitive Landscape

(emerging alternatives)

AGR 125 / 700:

The best in-class spraying:

Computer Vision and AI interpret leaf position and concentration to regulate the sprayer in real time.

Enhanced operability:

Compactness and advanced suspension mechanics, and vision-based navigation uniquely allow operation in greenhouses and through tight trails of hilly plantations.

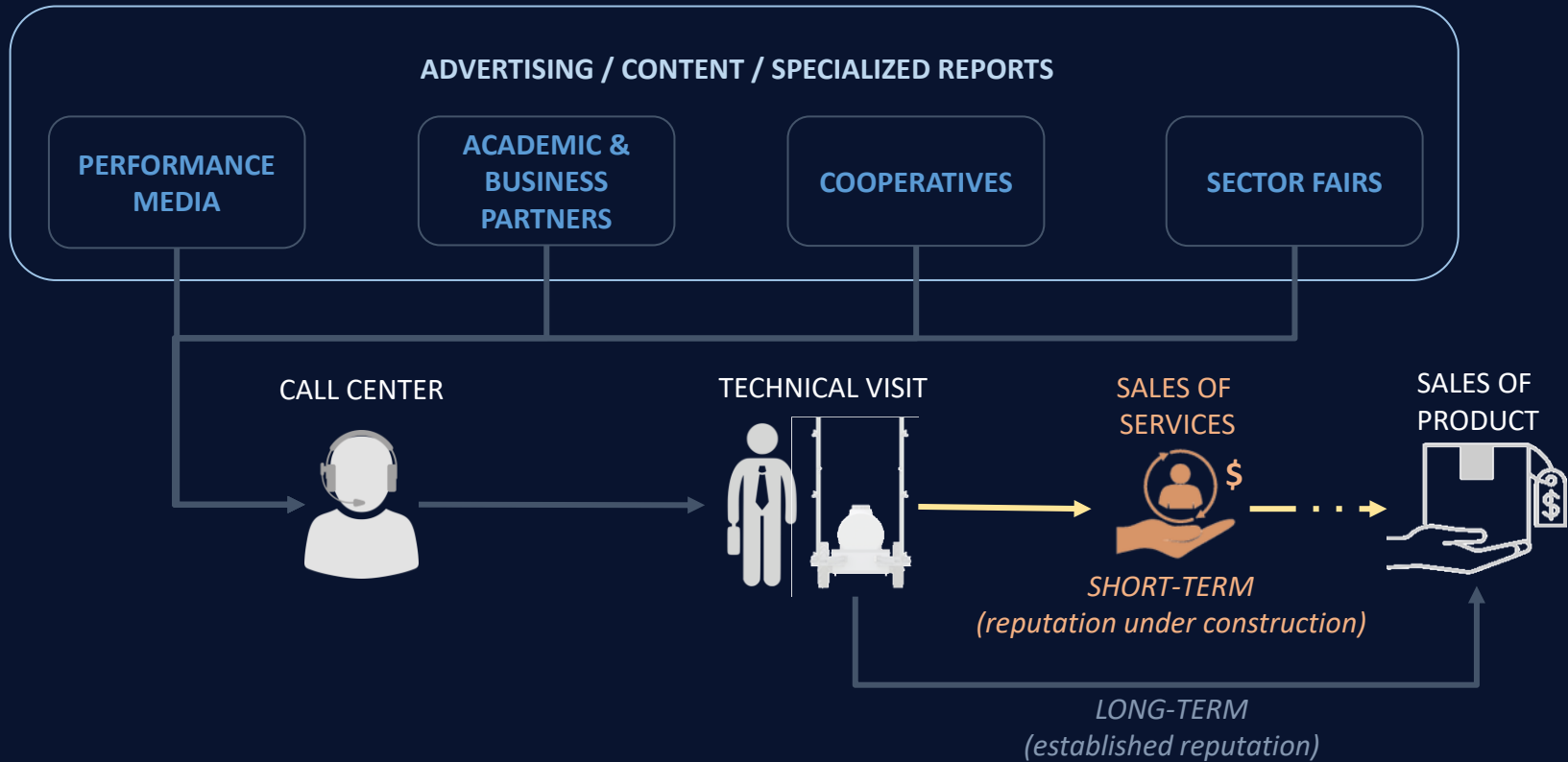
Maximizing User Value & Experience:

Onboard sensors, computer vision and AI features collect plant, environment, and process data for use in process improvement decisions.

CATEGORY	FEATURE	AGROBOTZ AGR 125/700	XAG R150 UGV	GUSS MINI GUSS
Intelligent Spraying	Active Flow Rate Adjustment	✓	✗	✗
	Active Sprayer Bar Positioning	✓	✗	✗
	Active Nozzle Control	✓	✗	✗
Autonomous Navigation	GPS-RTK	✓	✓	✓
	Computer Vision & AI	✓	✗	✗
	Obstacle Avoidance	✓	✗	✓
Operational Flexibility	Multi-Wheel Traction	✓	✓	✓
	Active Suspension	✓	✗	✗
	Greenhouse Use	✓	✗	✗
Added Utility	AI Plant Monitoring	✓	✗	✗
	IOT Sensors	✓	✗	✗
	Realtime Telemetry on Screen	✓	✗	✗
	Plug-And-Play Addons	✓	✗	✗
User Experience	Trailer-free Transport	✓	✗	✗
	Auto Recharge / Refill	✓	✗	✗
	Fleet Management Software	✓	✗	✓
Customizable Features	Battery Size & Type	✓	✗	✗
	Sprayer System	✓	✗	✗
	Sprayer Tank	✓	✗	✗
	Electrical Drivetrain	✓	✗	✗
	Cellular App / Radio Controller	✓	✗	✗

Business Model

Promotion & Sales



Business Model

Revenue Channels

Monetization

Value

Service
Provision I

Agricultural operations* with robots

Fee
40 US\$/Ha

Service
Provision II

Monitoring

Fee
60 US\$/Ha . month

Product
Sales I

Robot Unit
Shipping and setup
Technical support

90%
5%
5%

Average Ticket
32,000 US\$/unit

Product
Sales II

Plug-n-play Addons

Average Ticket
5,000 US\$/unit

* Agricultural Operations include Spraying, Pollination and Harvesting (long run)

PRODUCERS OF

Target Segments

TOMATOES ~ US\$ 178 Bi, CAGR 4,8%



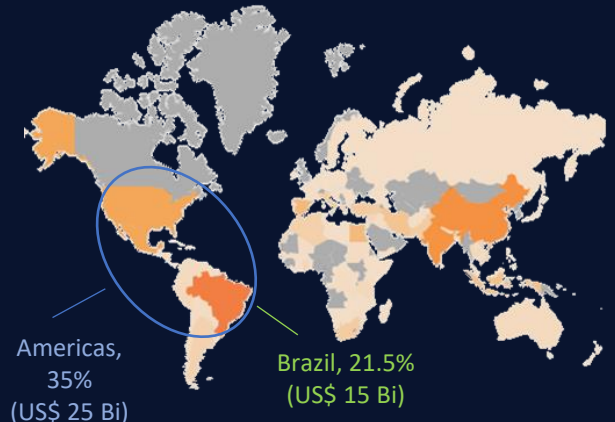
COFFEE ~ US\$ 24 Bi, CAGR 4,0%



GRAPES ~ US\$ 200 Bi, CAGR 7,8%



ORANGES ~ US\$ 70 Bi, CAGR 0%



Go-to-Market Plan

FOUNDATION: 2022-2023

Minimum viable product / Advanced prototype
E-marketing, Telemarketing, Short demos

STAGE 1: 2024-2025

Scope: SP, MG States in Brazil

Extended pilots with beta batch
Roadshow & Demos at Cooperatives
Sales through Commissioned Sales Agents

STAGE 2: 2026-2027

Scope: Brazil

Promotion & Demos at Local Industry Fairs
Sales through Farm Equipment Dealership Networks

STAGE 3: 2028-2034

Scope: Americas

Promotion & Demos at International Fairs
Sales through Exclusive Product & Service Units

Customer Targets

Our initial targets are producers of tomatoes and coffee in the Brazilian states of SP and MG, who need to spray their fields up to 4 times a week and have it done manually for lack of adequate machinery. They face labor shortages, the resultant elevated costs, and a relatively low quality output in exchange.

Acquisition Channels

1. Direct sales promoted by E-marketing, Demos at customer sites;
2. Promotion & sales by Equipment Dealerships and Sales Agents;
3. Promotion & sales through Proprietary Product Sales and Service Units

Production Scale Up

1. Lean Batch Production with Retail Purchased Components
2. Intermittent Production with Negotiated Wholesale Components;
3. Mass Production with Negotiated Wholesale Components

Financial Projections

First 5 Years (100% focus on Brazil)

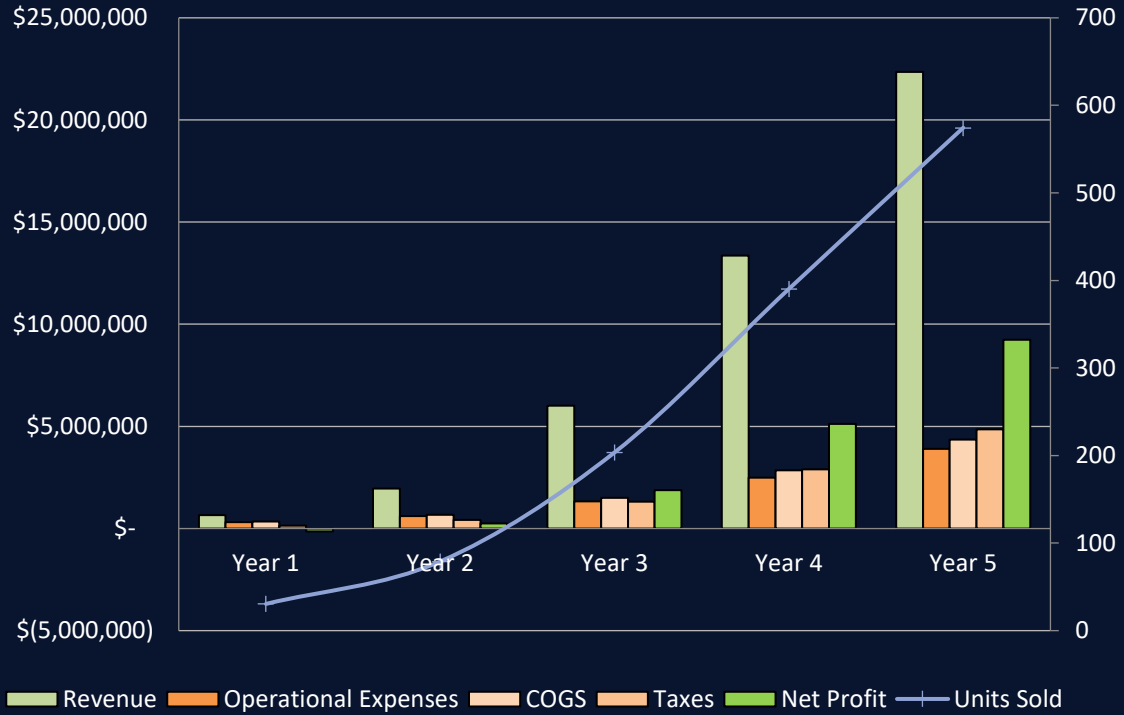
Culture	Share	Units
Tomatoes	3,0 %	260
Coffee	4,5 %	420
Grapes	5,0 %	150
Oranges	4,5 %	440
		1280

Total Sales: US\$ 41MM

Years 6-10 (focus on Americas)

Culture	Share	Units
Tomatoes	4,5 %	+1100
Coffee	4,5 %	+350
Grapes	5,0 %	+1750
Oranges	4,5 %	+300
		+3510

Total Sales: +US\$ 112MM

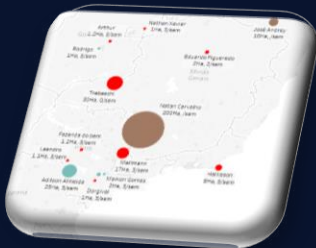


Progress So Far

External Funds



Demos & Validations with 50+ producers



Short Pilots



Industry Engagements



Bayer CropScience



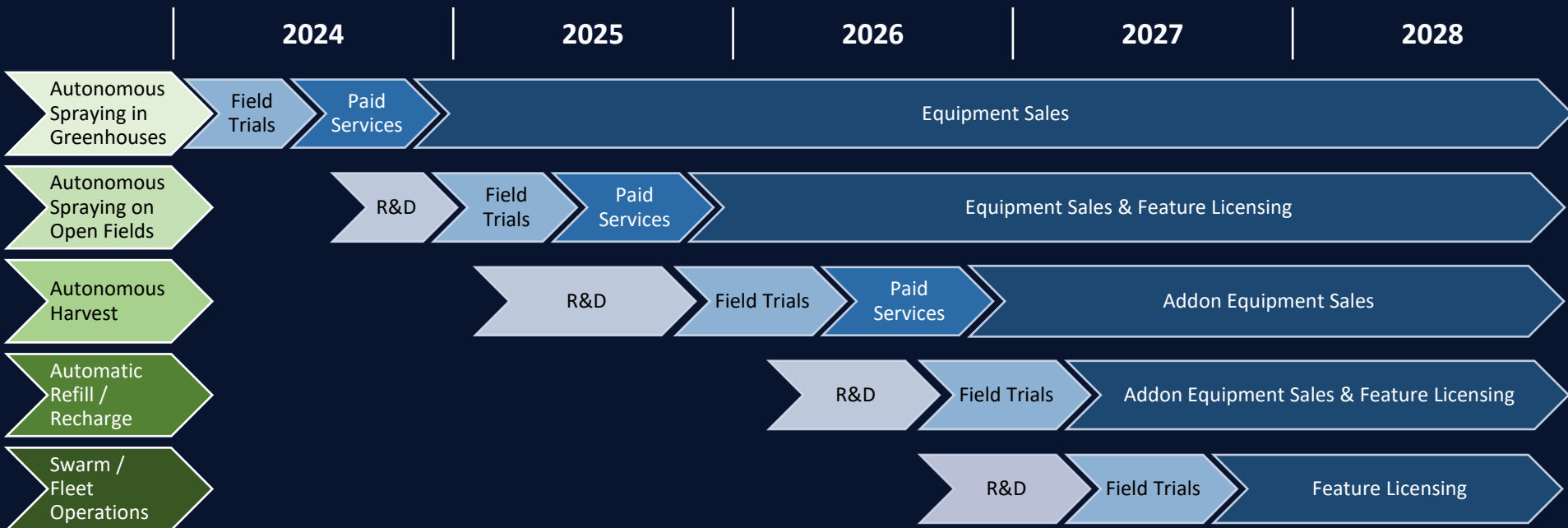
Academic Partnerships



Parallel Market Engagements



5-Year Technology Development Plan

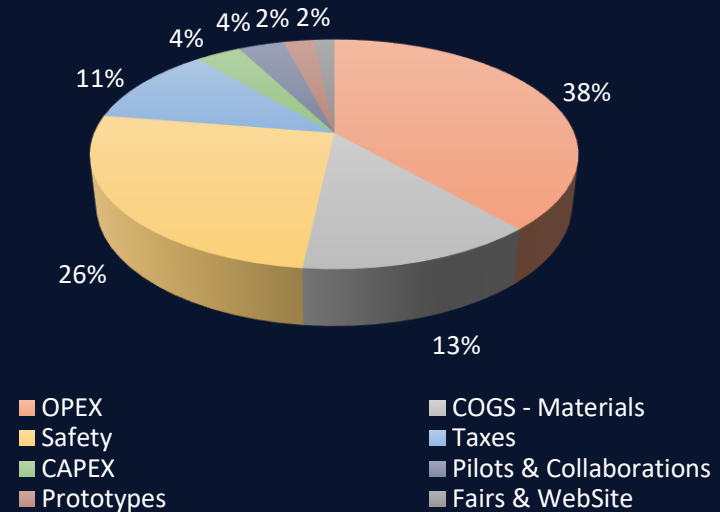


Next Steps

- Structuring production and commercial teams
- Setting up the batch manufacturing space
- Manufacturing of 10 commercial-grade robots
- Accelerating the extended pilots
- Professionalizing promotion & sales initiatives

Investment Requirement

US\$ 0.75MM



Management Team



Cem M. Albukrek
Founder & CEO | CTO

Director of Strategy & Marketing @ DuPont
Applications & Sales Engineer @ Exa
Computational Scientist @ Delta Search Labs
MBA - MIT Sloan | PhD/MS/BS - Cornell Univ.



Jane Doe
CMO

Posit @ Comp 1
Posit @ Comp 2
Posit @ Comp 3
Degree – Program - School



John Doe
COO

Posit @ Comp 1
Posit @ Comp 2
Posit @ Comp 3
Degree – Program - School



Samir Zabani
Field Operations Lead

Coffee Producer @ Grassamary Agronegocios
BS in Agricultural Engineering - FAZU

Technical Advisors



Professor Jun Okamoto Jr.
Collaboration Lead – Robotics & AI

Dept. of Mechatronics and Mechanical Systems Eng
Polytechnic School of the University of São Paulo



Professor Oswaldo Horikawa
Collaboration Lead – Mechatronics

Dept. of Mechatronics and Mechanical Systems Eng,
Polytechnic School of the University of São Paulo



Professor Erdal Ozkan
Collaboration Lead – Pesticide Spraying

Dept. of Food, Agricultural and Biological Engineering,
the Ohio State University



Professor Liliam Carrete
Financial Advisor

School of Economics, Business and Accounting,
the University of São Paulo

Become Our Partner!



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