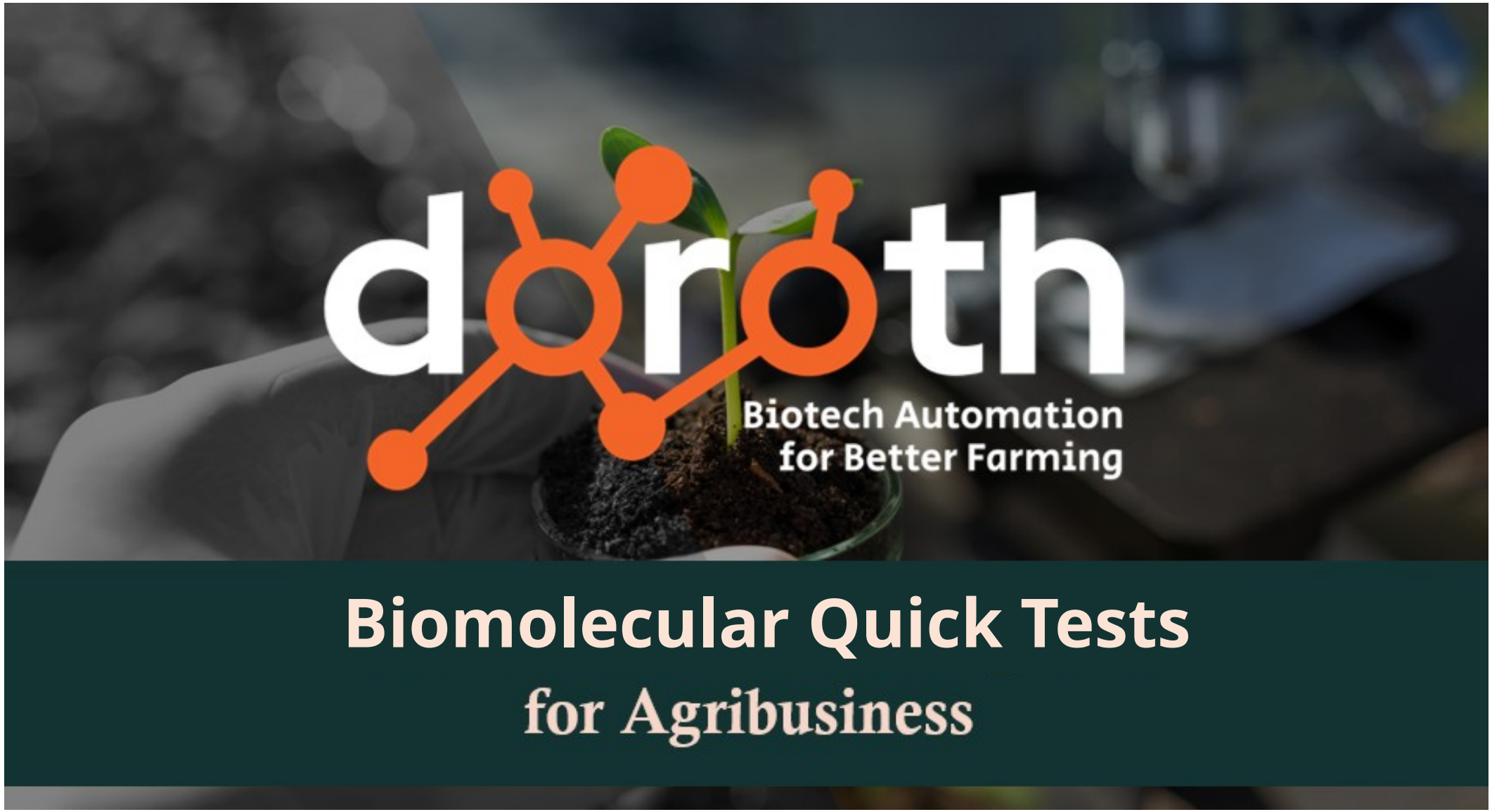

doroth
Biotech Automation
for Better Farming
Biomolecular Quick Tests
for Agribusiness

DotAir: Real-Time Monitoring

Autonomous Device and Chips

Automatic operation requires minimal intervention

On-Site Analysis

Crop field testing without lab delays.

Strain-Level Identification

Monitors in real-time the arrival of airborne pathogens BEFORE THE CONTAMINATION SPREADS

Farmer: Money-saving and Resistance Control

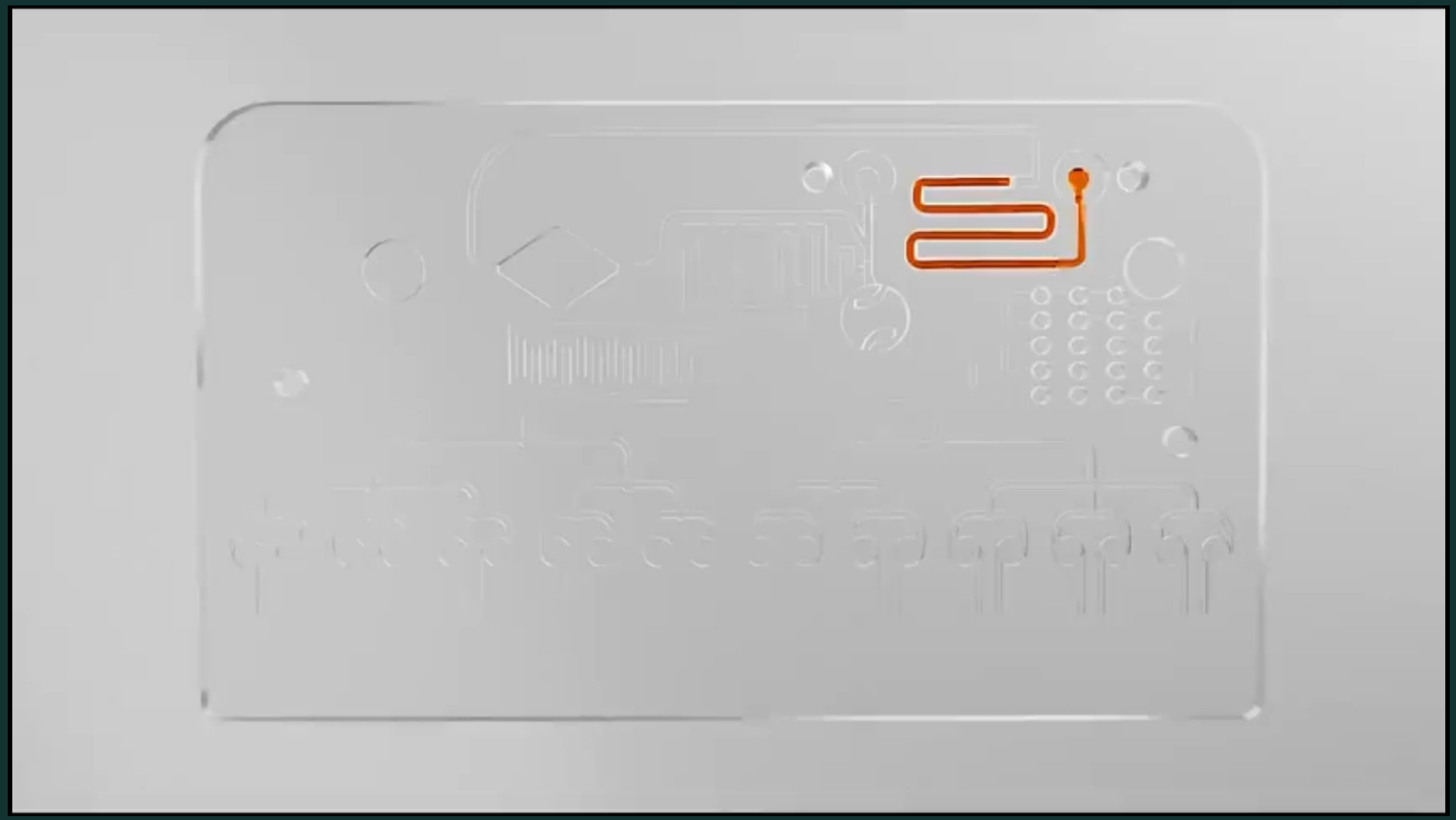
Cost Savings

Up to 30% savings on crop inputs.

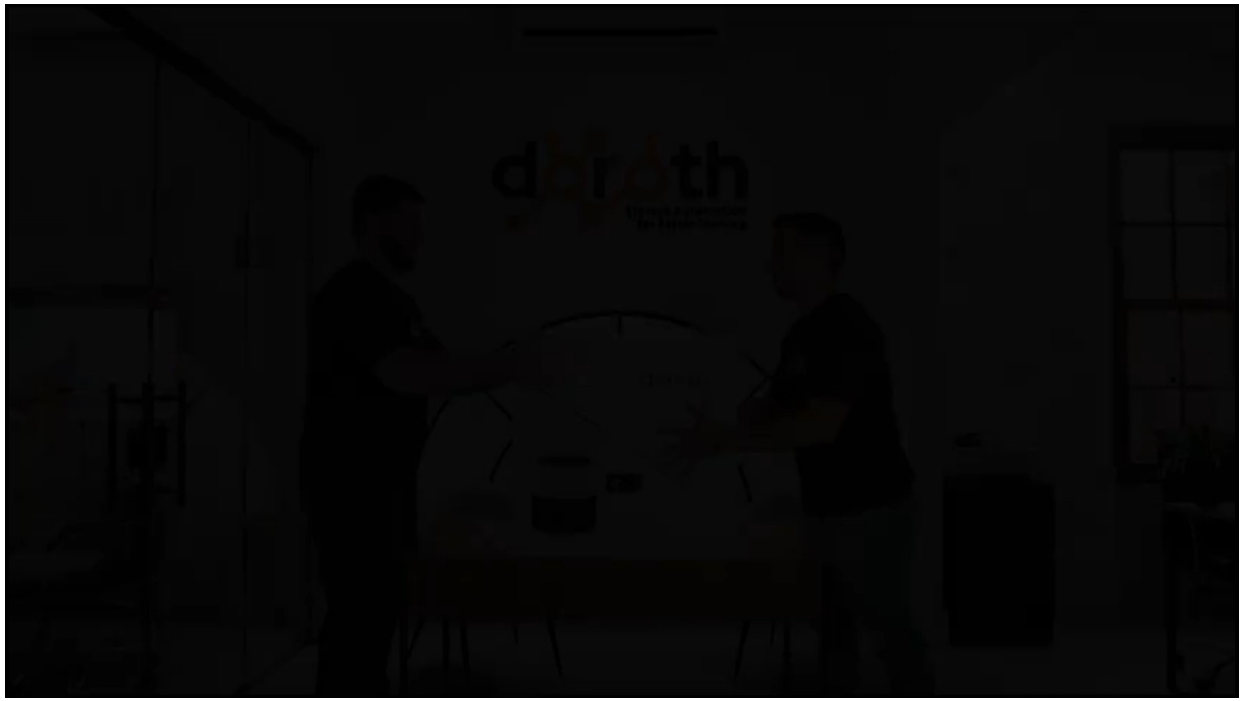
Resistance Control

Helps control biological resistance to pathogens.

SUSTAINABLE DEVELOPMENT GOALS
2 ZERO HUNGER
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
13 CLIMATE ACTION
15 LIFE ON LAND



Technical Milestones



2019

FirstTest in the Field
Disengaged parts

2022

Prototype V5 Ready to
be tested in
Greenhouses

2024

Prototype V8 Ready to
be tested in Crop Fields

Doroth: Deep Tech Startup

Definition: Startups that are building disruptive technology based on groundbreaking scientific or engineering challenges. Deep tech startups like Doroth have the potential to transform industries

Key characteristics that its required by a Deep tech:

Research and Development

Long-Term Investment

Robust Infrastructure

Key Universities Supports on Early Stage

UFSCAR - University of São Carlos - Biomolecular Facility in Agriculture

Prof. Andersson Cunha

USP ESALQ - University of São Paulo - Biomolecular Facility in Agriculture

Prof. Paulo Teixeira

Senae - FIT - Fast Prototyping

UNICAMP - UNiversity of Campinas - Pharmaceutical Technology Facility

Profa. Laura Nascimento

The Team
Diverse Expertise

Camilla Amaral, PhD
UNICAMP
Harvard

CEO
Commercial/Operations

Samuel
UNESP
Tampere and Boston University

CSO, R&D

Highly **Qualified Workforce** is coming from **Public Brazilian Universities** and **Grant Institutions** that provides strong **foundation knowledge** and opportunities for students to **go abroad**

UNICAMP · USP · UFSCar · unesp · FAPESP · MCTI · Finep

Team with 20 Dothers and growing!

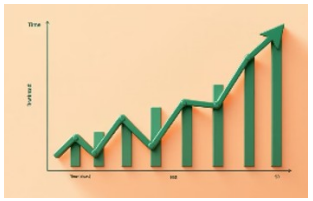
60% holds a PhD

FAPESP WEEK GERMANY

March 25-26th, 2025

FAPESP SÃO PAULO RESEARCH FOUNDATION

DFG Deutsche Forschungsgemeinschaft



HYBRID INVESTMENT ROUNDS + € 2MI

EQUITY CAPITAL VENTURE

ANGEL INVEST €70K
ACCELERATION SUPERA PARK – USP RIBEIRÃO

SEVNA STARTUPS

SEED INVEST €350K

bossanova

GRB ventures

Agro Ven
Smart money for AgTechs

BRIDGE INVEST €1.1MI

GENESIS GROUP

KIJANI investimentos

2019 2020 2021 2022 2023 2024 2025

GOVERNMENT GRANT

PIPE II FAPESP €130K

FAPESP

MCTI

INDUSTRY FIT €70K

FAPESP

PIPE INVEST €165K
FINEP TECNOVA €125K

Finep INOVAÇÃO E PESQUISA

FAPESP

PIPE II and SEBRAE €280K
FINEP Woman €30K

SEBRAE

Finep INOVAÇÃO E PESQUISA

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REVENUE + €1MI

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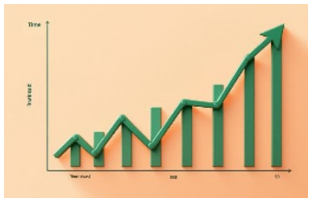

IMPACT ON OUR CLIENTS IN AGRIBUSINESS

BAYER

SLC Agrícola

KOPPERT BIOLOGICAL SYSTEMS

CORTEVA™ agriscience

ICL

AGRO AMAZÔNIA

FMC An Agricultural Sciences Company

suzano

PHILIP MORRIS BRASIL

Embrapa

CTC

UBYFOL® Excelência em Nutrição Vegetal

FAPESP WEEK GERMANY

March 25-26th, 2025

BIOTECH INNOVATION HUB
Our Facility Breakdown

FAPESP SÃO PAULO RESEARCH FOUNDATION

DFG Deutsche Forschungsgemeinschaft

Rapid Prototyping Microfluidics Facility

Custom lab-on-a-chip device design and fabrication.

Enables rapid experiment iteration and optimization.

Hardware and Software Automation Lab

To develop integrated systems for automating lab protocols.

Reduces human error and increases throughput.

Integrated Molecular and Cellular Biology Lab

Specializes in biosensor design and DNA-based assays.

Creates novel tools for detecting biological molecules

FAPESP WEEK GERMANY

March 25-26th, 2025

FAPESP SÃO PAULO RESEARCH FOUNDATION

DFG Deutsche Forschungsgemeinschaft

The Future

Industry Warehouse

450 square meter

1st Microfluidics Chip Industry in Latin America and 1st in Global Agribusiness

Produce and Sell 8 Millions of Chips per year

Piracicaba, SP - Brazil

FAPESP WEEK GERMANY

FAPESP SÃO PAULO RESEARCH FOUNDATION

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