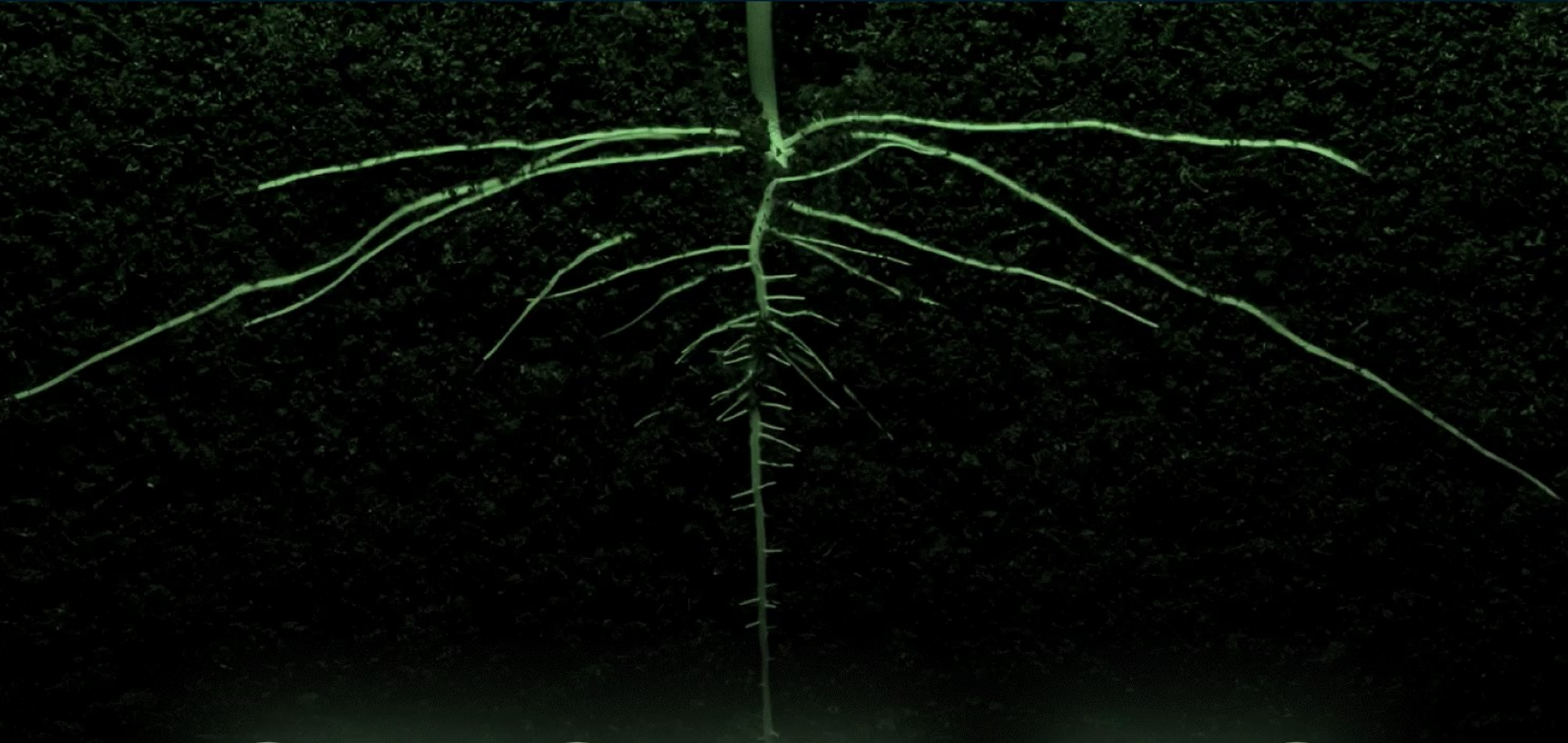




SPECTRA BIO

Unlocking plant intelligence

THE PROBLEM / 01

The chemicals that protect our food are no longer working.

Resistance is rising.

Toxicity is mounting.

Regulators are pulling products.

\$273_{B+}

in annual economic losses
to pests globally

17

active ingredients banned
by the EU since 2021

0

new ingredients registered
to replace them

Chemical discovery has been unchanged for decades.

Apply the chemical.

WAIT: Weigh. Measure. Look.

DISCOVERY RESEARCH PIPELINE



months years of experiments, but still necessary for regulatory approval

12_{yrs+}
to develop one new ingredient

\$300_M
in cost, per ingredient

35%
spent on biological screening

Chemical discovery, reimagined.

ROOT-LEVEL SENSING

Non-invasive, real-time chemical signalling at micro-scale.

RAPID SCREENING

Only two weeks → 3× faster screening of thousands of inputs.

AI-DRIVEN DISCOVERY

Earlier detection, multiple metrics, refined prediction → innovation across the entire pipeline.





Selin Olenik, PhD

Founder / CEO

- Post-doctoral researcher at Imperial College
- **5+ years experience** designing electrochemical sensors for biology
- **Industry experience** in product development (Philips)



Prof. Firat Guder

Founder / CSO

- Professor of Intelligent Interfaces at Imperial College
- **Experienced entrepreneur & cofounder** of 3 deeptech startups (Blakbear, Unhindr, Spyras)
- **Pioneer** of non-invasive chemical plant phenotyping



Baris Bilen

Advisor

- Managing Director of Kaloma Ventures
- **Decades as founder & CEO** (Endomix), part-time CSO in agri-food tech (Blakbear)



Julia Espeso Bischofberger, MSc

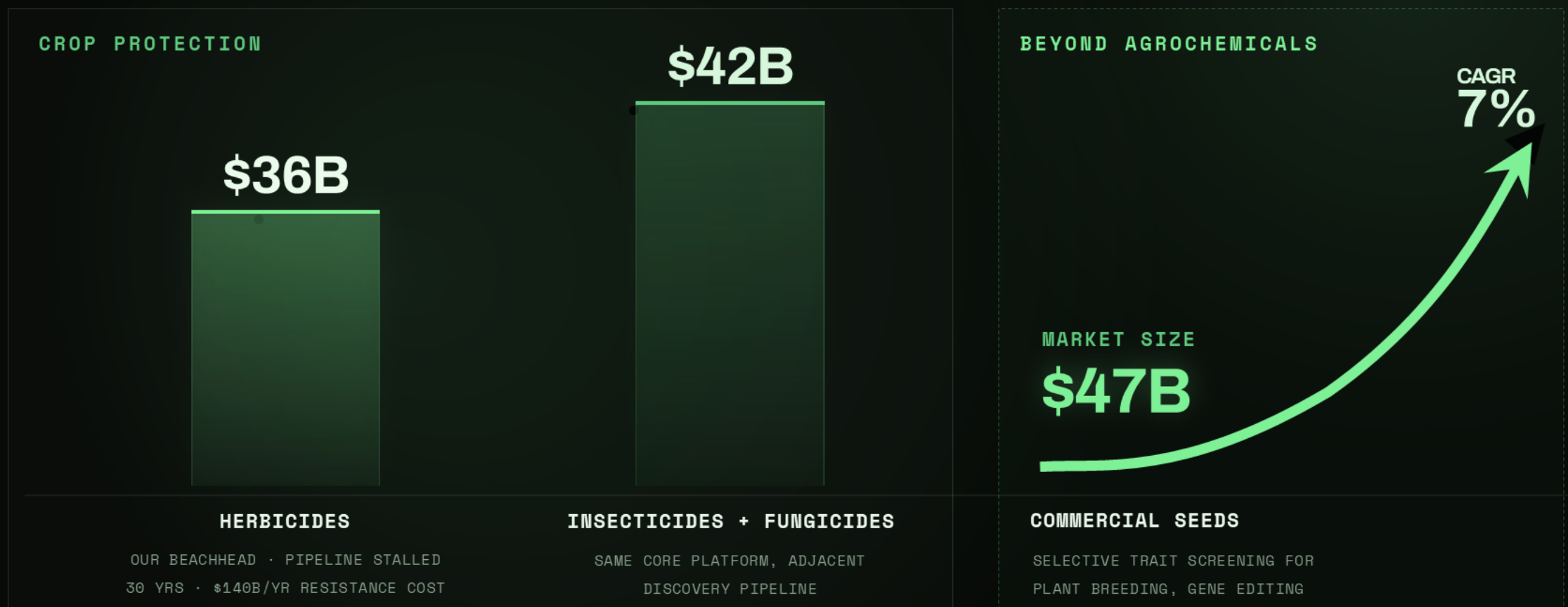
Advisor

- Venture Manager at Imperial College
- **Extensive expertise with investment** at early stage in agri-food (Eatable Adventures)



A \$280B opportunity.

\$235B GLOBAL AGROCHEMICAL MARKET



Revenue that scales with discovery.

01 LAND

Partnerships

Multinationals run high-volume screening on our platform

02 EXPAND

Mid-size Players

Proven credibility opens risk-averse buyers

03 EARN

Milestones + Royalties

Payments as compounds advance.
Royalties on commercial sale.



WHY IT'S
DEFENSIBLE

\$8

COST MOAT

Per module – 10× cheaper than imaging at scale.



DATA MOAT

Every screen compounds our proprietary dataset.

£2M to reach commercialization
in 24 months.

PRE-SEED ROUND • 24-MONTH RUNWAY

USE OF FUNDS

01

CORE TEAM

+ Dedicated AI engineer

→ PREDICTIVE MODELLING

02

PLATFORM → TRL 7

Validated, pilot-ready system

→ 2 PAID TRIALS IN 24 MONTHS

03

OPERATIONS

LAB & EQUIPMENT

PROTOTYPING

MANUFACTURING

IP & LEGAL

ON-SITE DEPLOYMENT

Re-igniting a discovery pipeline **stalled for decades.**

SPARING GROWERS HUNDREDS OF BILLIONS IN LOSSES EVERY YEAR