$5 TN INDUSTRY, $500 BN in PROFITS, $115 BN OPPORTUNITY

EFFICIENCY
- FUEL
- FERTILISERS
- CHEMICALS
- WATER
- MANUAL LABOR

SUSTAINABILITY
- YIELD
- QUALITY
- BUSINESS DECISIONS

IMPACT ACROSS 10 SDGs
ARTIFICIAL ENVIRONMENTAL INTELLIGENCE

- satellite observations
- airborne hyperspectral imaging
- weather stations
- multi-scale sensor fusion
- crop model and spectral signature database
- Gamaya AEI engine
- monitoring, heuristics and manual tagging
- field robotics
- agricultural machinery
- decision support and automation
HYPERSPECTRAL IMAGING

The unique way to connect plant-scale biology with large-scale analytics of crops

The gateway towards AI-driven decision making and automation in industrial agriculture

Exclusive know-how of Gamaya based on many years of scientific research, as well as extensive portfolio of software/hardware capabilities and IP
Technology Hype Cycle

1-3 years to full productivity
3-5 years to productivity
5-10 years to productivity
10+ years to productivity

Better
Safer
Simpler
Cheaper

Visibility

Time

Technology Trigger
Pick of Inflated Expectations
Disillusionment & Slope of Enlightenment
Productivity
Digital Farming Hype Cycle
US and Western Europe

Visibility
- Autonomous Vehicles
- Machine Intelligence
- Executive AI
- Fully-Automated Farm
- Scalable Permaculture
- Sustainable Industrial Agriculture

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- Productivity

1-3 years to full productivity
3-5 years to productivity
5-10 years to productivity
10+ years to productivity

- Machine Intelligence
- Autonomous Vehicles
- Predictive AI
- Internet of Things
- Descriptive AI
- VRA
- Digital Farm Management
- Remote Sensing
- Drones/Planes/Satellites
- SatNav
- 3G/4G

Scalable
Permaculture
Sustainable
Industrial
Agriculture
Executive AI
Prescriptive AI
Digital Farm Management
Remote Sensing Drones/Planes/Satellites
SatNav
3G/4G
Digital Farming Hype Cycle
US and Western Europe

- Visibility
  - Autononous Vehicles
  - Machine Intelligence
  - Executive AI
  - Fully-Automated Farm
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- Prescriptive AI
- Predictive AI
- Internet of Things
- Remote Sensing
- Drones/Planes/Satellites
- Digital Farm Management
- 3G/4G
- SatNav

- VRA
- Descriptive AI
SUGARCANE – Overview (Descriptive AI)

ACTION: Annual and weekly operational planning
SUGARCANE – Harvest readiness (Predictive AI)
**ACTION:** Weekly and daily planning of harvesting operations
SUGARCANE – Planting efficiency analysis (Prescriptive AI)
ACTION: Decision support for planting gap correction and replanting
SUGARCANE – Planting efficiency analysis (Prescriptive AI)
ACTION: Decision support for planting gap correction and replanting
TOBACCO – Overview (Descriptive AI)

ACTION: Daily and weekly operational planning
TOBACCO – Maturity status (Predictive AI)

ACTION: Optimisation of harvesting operations
TOBACCO – Mosaic virus (Prescriptive AI)

ACTION: Physical removal of infected plants
TOBACCO – Flowering (Prescriptive AI)

ACTION: Targeted topping of flowers and spraying of suckercide
Plant level analytics:
- Tobacco virus
- Weeds
- Plant maturity
- Flowering
- Sucker removal
- Soil compaction

Large-scale analytics:
- Yield prediction
- Quality assessment
- Soil health management
- Supply chain management and sustainability
Digital Farming Hype Cycle

Developing markets

- Technology Trigger
- Pick of Inflated Expectations
- Disillusionment & Slope of Enlightenment
- Productivity

Visibility

Time

- 1-3 years to full productivity
- 3-5 years to productivity
- 5-10 years to productivity
- 10+ years to productivity

- Remote Sensing
  - Drones/Planes/Satellites
- VRA
- Digital Farm Management
- 3G/4G
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(GAMAYA)
Digital Farming Hype Cycle

Developing markets

- Visibility
- Time

Visibility

- Technology Trigger
- Pick of Inflated Expectations
- Disillusionment & Slope of Enlightenment
- Productivity

- 1-3 years to full productivity
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Public private partnerships

- VRA
- Remote Sensing
  - Drones/Planes/Satellites
- Digital Farm Management
- SatNav
- 3G/4G

Public private partnerships
Gamaya is one of the 4 European AgTech startups with a potential to become a $1 billion dollar company.

**BUSINESS INSIDER**
Gamaya is one of the 12 hottest startups in Switzerland based on the amount raised, headcount, and developed technology.

**FORTEX**
Gamaya is changing farming with drones and artificial intelligence.

www.gamaya.com
yosef.akhtman@gamaya.com