

Making farming

MARCH 2022 INFORMATION FOR INVESTORS





UNMET **FOOD DEMAND**

20% less arable land by 2030, +70% crop to feed world by 2050

UNSUSTAINABLE **FARMING PRACTICES**

Wasting 90% of pesticide and 65% of fertilizer while 15 billion trees are lost every year

AGRICULTURE ON THE CUSP OF CHANGE

UNPREDICTABLE PRICES

25% of global wheat comes from Russia and Ukraine +100% in fertilizer prices in a year

UNPRECEDENTED **REGULATORY PRESSURE**

50% less pesticides and 50% less nutrient waste in EU by 2030

SUSTAINABLE AND REWARDING

A MASSIVE ADDRESSABLE MARKET

MACHINERY

\$55.5 BILLION

Targeted tractors annual value

AGRICULTURE

\$2.5 TRILLION Targeted Crops Annual value

2 MILLION

New tractors sold annually, 360 thousand in NA

3.7 BILLION ACRES

SUSTAINABILITY

\$140 BILLION Food Loss from Harvest to Retail

\$15 BILLION Carbon Credit (CO2) Market by 2030

SUSTAINABLE AND REWARDING

TRACTOR AUTONOMY TODAY IS LIKE CAR AUTONOMY 10 YEARS AGO

..and like cars, the richest data-set will win



CARS

Legacy OEMs focused on low hanging features like lanekeeping through radar & lidar

STARTUP-LED DISRUPTION BASED ON EDGE COMPUTING, CAMERA-BASED PERCEPTION AND AI





AG VEHICLES

Legacy OEMs focus on low hanging features like in-farm driving autonomy through GPS



FARMERS DO MORE THAN DRIVE

DRIVING Low-Skilled Labor

FARM OPERATION

0

1.7k Actions / 100 acres High-Skilled Labor

There is no true autonomy without the automation of all farming operations









TRANSFORMING MACHINERY TO NEXT-GEN ROBOTS



Canopy health, objects, patterns and more



Edge computing and AI translate images to agronomic insight

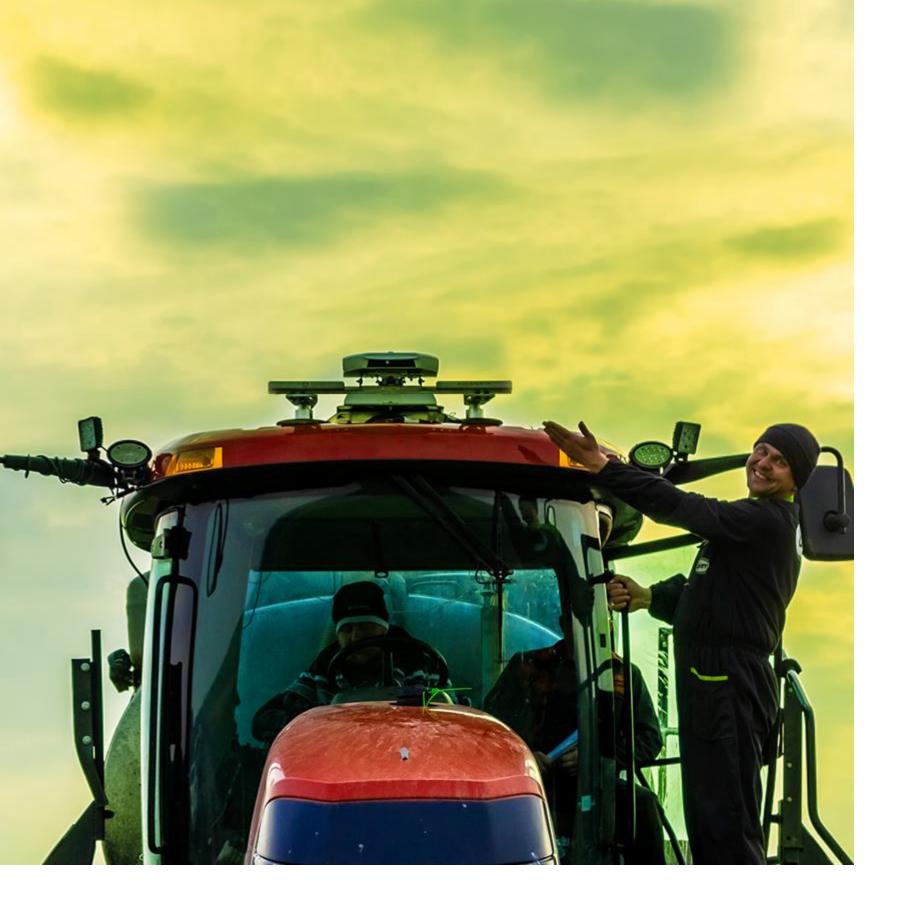


CONTROL

AUTOMATING FARM **OPERATIONS**

By connecting to the "brain" of the machine and controlling it





IMPROVING FARMERS LIVES

\$

150% ROI IN A YEAR

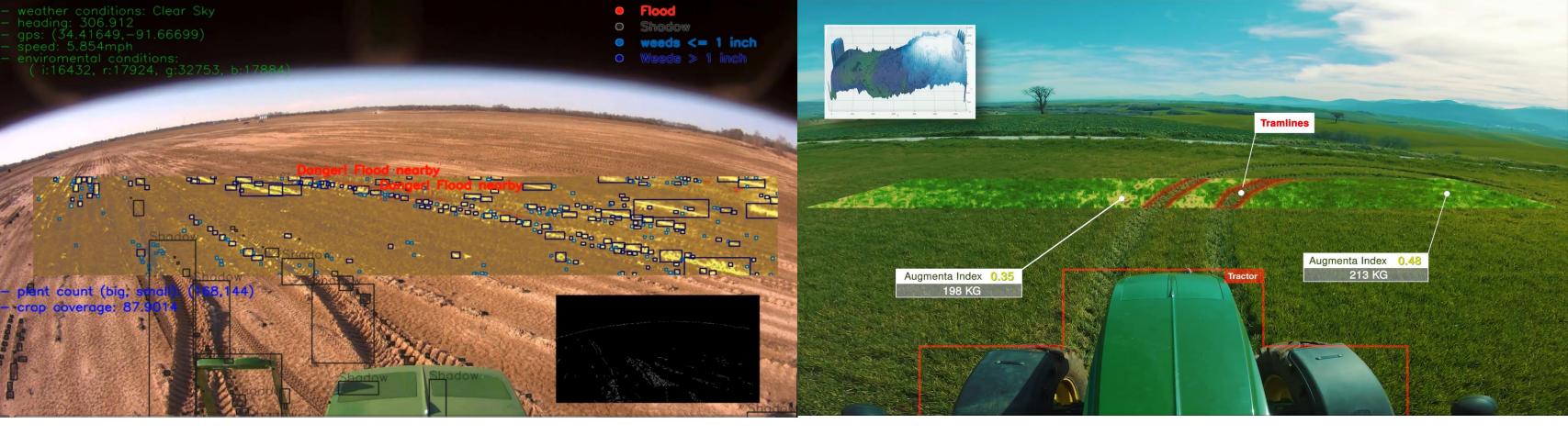
8% net farm profit* through input Retrofit kit, OEM agnostic, savings and productivity increase installed in minutes, affordable

*Corresponding to a net profit of \$20-\$40K for a 1000 wheat acre farmer



AUTONOMY FOR ALL





AUTOMATION AS A SERVICE



AI-DRIVEN AUTOMATED & OPTIMIZED OPERATIONS

Fertilization, pesticide and fungicide spraying, harvesting*, tilling*, driving**



"GOOGLE MAPS" FOR FARMS

Online and Offline 2.5D farm perception, 4K farm images, 6mm/pixel resolution



NEXT GEN ANALYTICS

Real-time canopy health maps, Carbon analytics, Yield & quality prediction*.

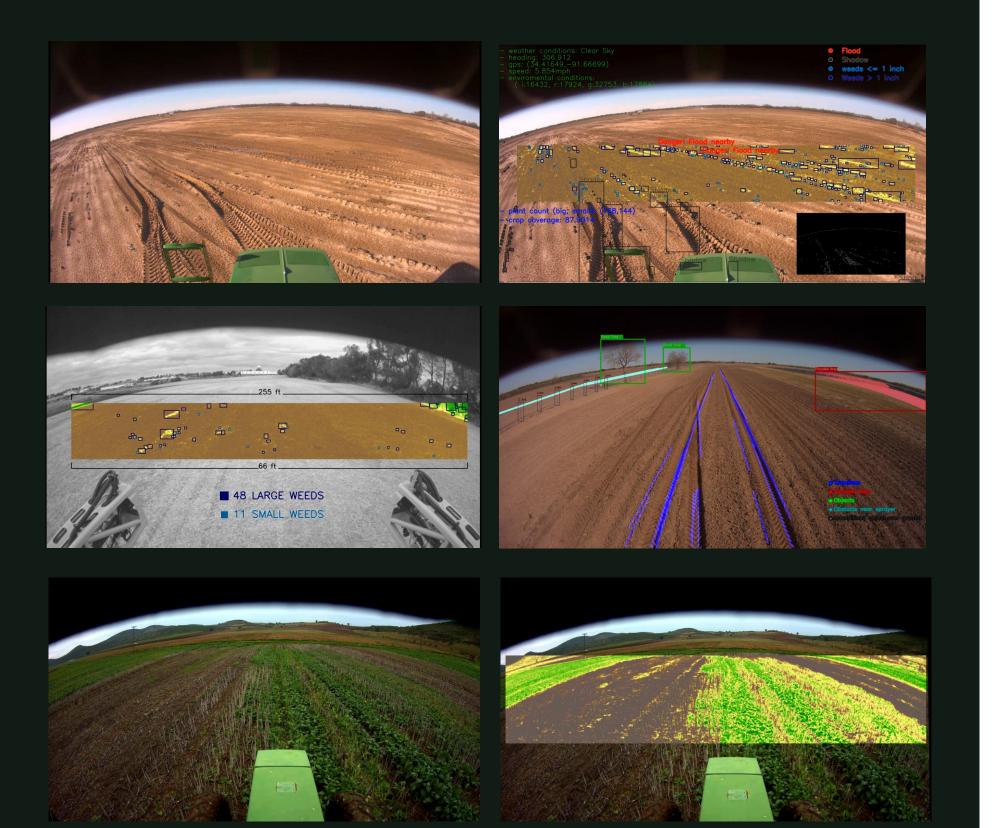
*Available in 2023, **Available in 2025



SAME HARDWARE MORE OPERATIONS

Short and frequent release cycles, OTA updates





UNPARALELLED PERCEPTION

RGB COMPUTER VISION

- •
- •
- **Object detection** Path Planning Stereo perception (crop height etc.) • Farm elevation •
- - SLAM •

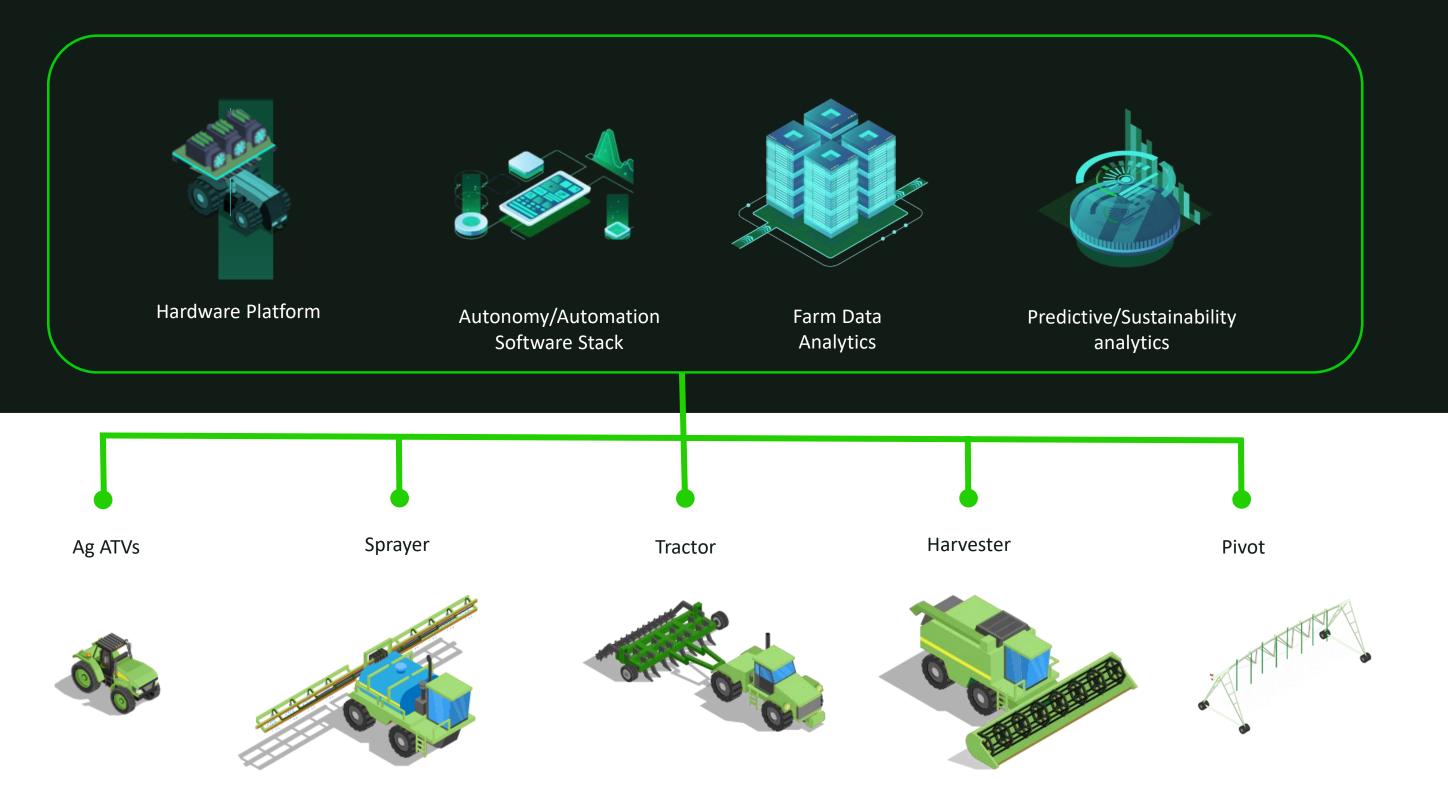
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MULTISPECTRAL COMPUTER VISION

- Patented real-time camera calibration for noise • cancellation (sun position & intensity)
- Canopy status (nitrogen deficiency, disease and more) • **Biomass indices**
- ٠
- Crop count •
- Weed Detection •
- Soil water content •



360° TECHNOLOGY STACK





14 CROPS IN 25 COUNTRIES





POTATOES IRELAND

SOYBEAN USA



ONION NETHERLANDS







SUNFLOWER UKRAINE





PASTURE LAND SOUTH AFRICA



AUGMENTA

GRAPES FRANCE

VARIABLE CONDITIONS



SNOW

SUNNY DAY



TREELINES IN FIELD

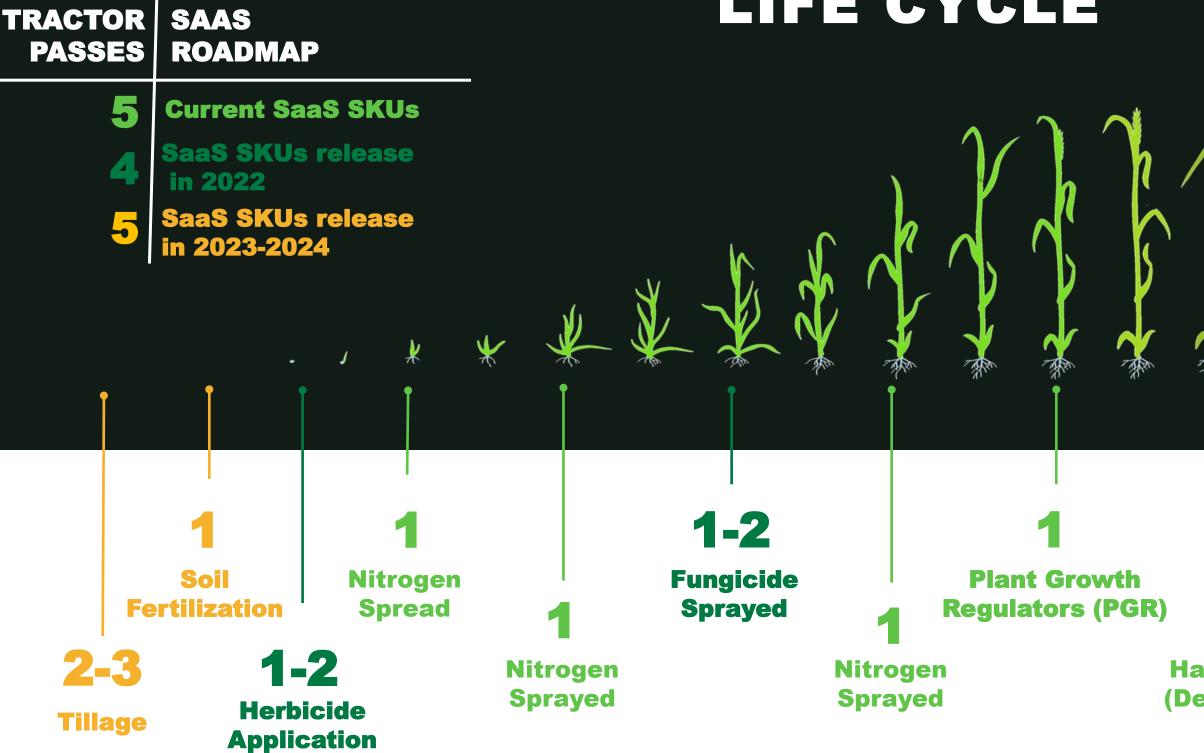


SHADOWS

STRIPED CROP



AUTOMATION THROUGHOUT CROP LIFE CYCLE



WHEAT CASE STUDY : FRAHMS FARM (KS, US) Nitrogen Spray 13% Savings on N 11% Yield Increase \$25K **Profit Gain** 775 Acres

Harvest **Harvest Aid** (Desiccants)

AUGMENTA SUSTAINABLE AND REWARDING

MULTI-SKU USAGE BASED SUBSCRIPTION

ONE-OFF HARDWARE OFFERING MSRP \$13k	AUGMENTA MANTIS	SCOUTING • REC	Crop Scouting: Free of charge. Active and
		VIRTUALVRA • REC	Virtual Application Free of charge. Supported
ANNUAL SAAS OFFERINGS	AUGMENTA •LIVE VRA	• LIVE VRA NPK	Variable Nitrogen a Price of \$2/planted acre, R
		•LIVE VRA PGR	Variable PGR Autor Price of \$0.5/planted acre,
		• LIVE VRA DEFOL	Variable Harvest Ai Price of \$0.5/planted acre,
		•LIVE VRA FUNG	Q2 2022 Fungicide Real-time Price of \$1/planted acre, R
	AUGMENTA ADD ONS	•LIVE GOB HERB	Q2 2022 Spot-Spraying of GI Price of \$3/planted acre, R

*Pre-season herbicide spraying (Green on Brown)



Passive Scanning. 4K available.

1 Maps:

operations simulation + Reports.

and Foliar Fertilizers Automation:

ROI: 8-15% savings, 2-12% yield increase

mation:

e, ROI: 10-20% savings, 5-10% yield increase

Aid-Defoliants Automation:

e, **ROI**: 10-25% savings

e VRA:

ROI: 8-30% savings, 1% yield increase

Slyphosate*:

ROI: 40-75% savings



NOTABLE **CUSTOMERS**

INDU	JSTRIAL

AgraCity

USA Top3 tractor OEM in the world

"It is really easy to operate for the farmer, who doesn't need special knowledge" Markus Balleis Product Manager

"The most powerful, 100% autonomous real time VRA" Tyler Gullen Agronomy Manager



"The Augmenta System has an Artificial Intelligence that works - it really saves [inputs] compared to other systems," Ahmet Korhan Yuzbasioglu, TeknoKurgu, Turkey.



Czech Republic Machinery Dealer

AgTech Provider &

top3 crop inputs

retailer company

Canada

Precision Ag Specialist



47 CUSTOMERS IN 25 COUNTRIES







150% ROI IN A YEAR





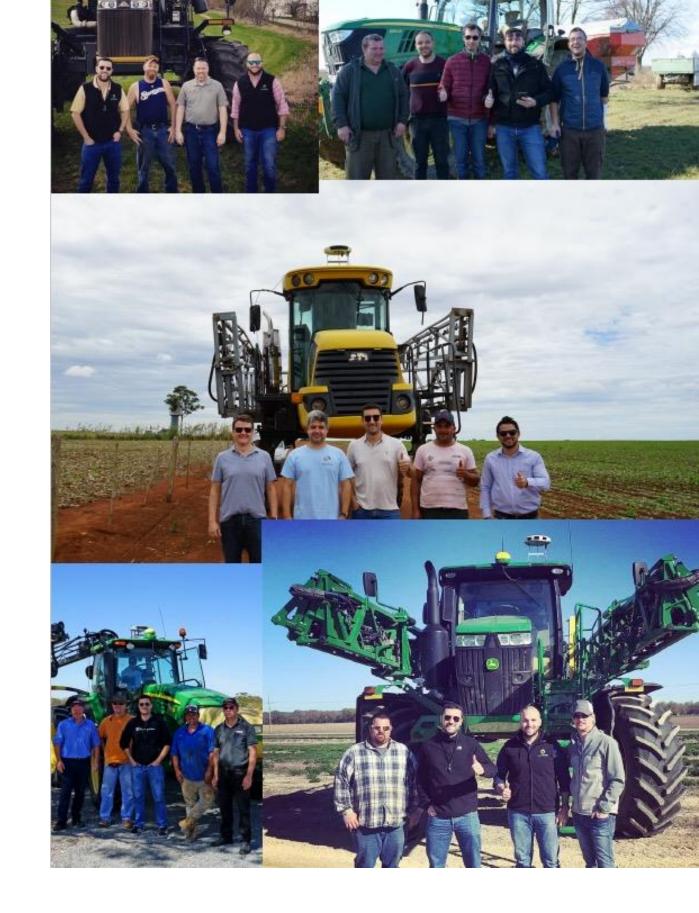




8% average savings in crop inputs

Consistent yield increase **from** +2% to +12%

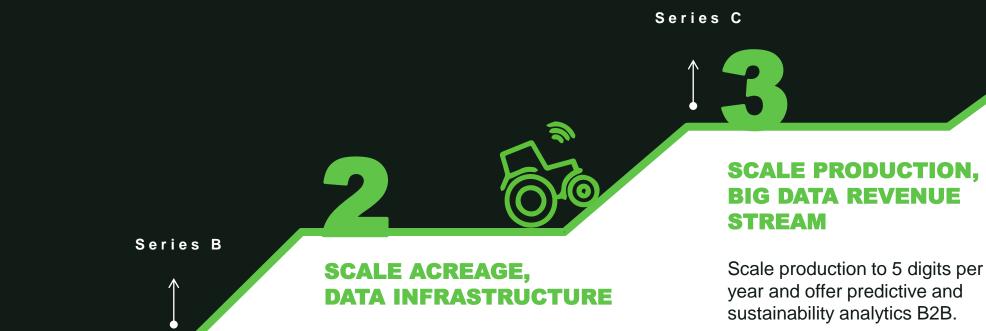
ROI in less than a year, farm bottom-line **+8%** or \$20k-\$40k*



*1000 acre wheat US farmer



GRAND PLAN



Be the number one data bank in the world for traditional and multispectral perception.

SUPPORT MOST **OPERATIONS ACROSS THE** LIFECYCLE OF A CROP

Become the stickiest tech a farmer owns that operates and collects data anytime the tractor is in the field

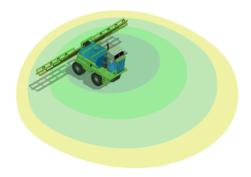


BIG DATA REVENUE

year and offer predictive and sustainability analytics B2B.

AUGMENTED FARMING (FULL AUTONOMY)

Become the operating system for farm autonomy, including road driving and farm operations









RAISING \$XXM TO BECOME THE CATALYST FOR SUSTAINABLE FARMING WORLDWIDE

By FY2024





Acres under Management



Gross Margin



125K

Less tonnes of chemical fertilizer in soil



700TB

Annotated Field data



760K

Less kg of pesticides in soil







Raised by

MARATHON VENTURE CAPITAL



pymwymic

\$3.75m in the bank

SUSTAINABLE AND REWARDING

Making farming sustainable, and rewarding.

George Varvarelis Founder & CEO

george@augmenta.ag

