

U.S. SOYBEANS: THE CASE STUDY OF SUSTAINABILITY IN THE PRODUCTION OF FOOD BEANS

# INTRODUCTION

- Dan Schwartz
  - Married for 36 years
  - 6 children, 6 grandchildren
  - 2<sup>nd</sup> generation farmer
- Schwartz Farms
  - Cortland, OH, USA
  - Established in 1956
  - 3<sup>rd</sup> generation family farm
    - 5 families involved
    - 17 employees
  - Transitioned to grain only farm in 1978
  - Added the seed and IP soybean business in 1998
  - Produced 17,805MT of NON-GMO soybeans in 2020
  - Proud to be a sustainable, farm-to-table family farm operation

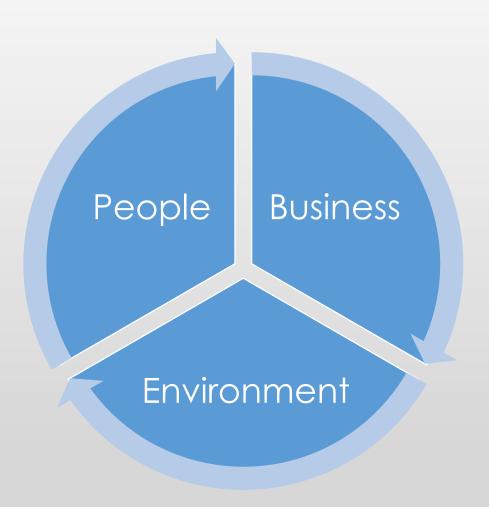




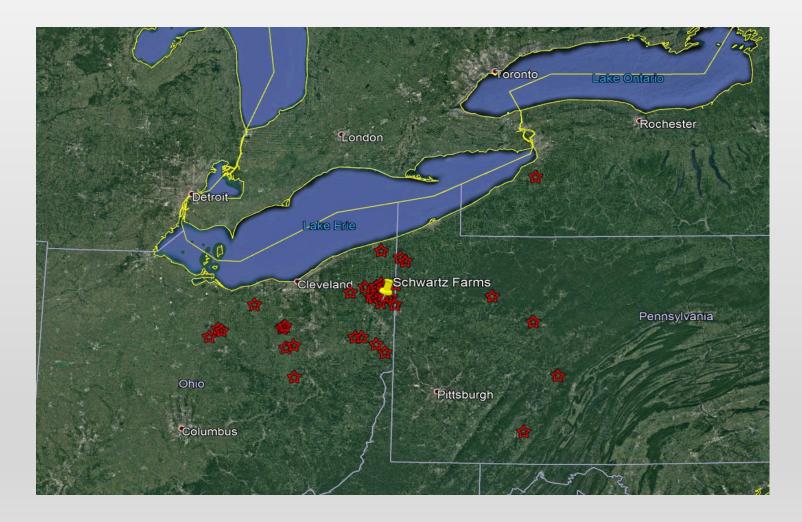
# **CONTENT FOR TODAY**

What does Sustainability mean to us at Schwartz Farms?

- People
  - Team, Community & Partnerships
- Business
  - Growth, Diversity, Technology, Markets, IP Handling & Certifications (USSEC SSAP)
- Environment
  - Soil Health (such as Nutrient Management & Erosion), Water Management (such as Drainage & Water Quality), Carbon Sequestration, etc.



## **COMMUNITY ENGAGEMENT**



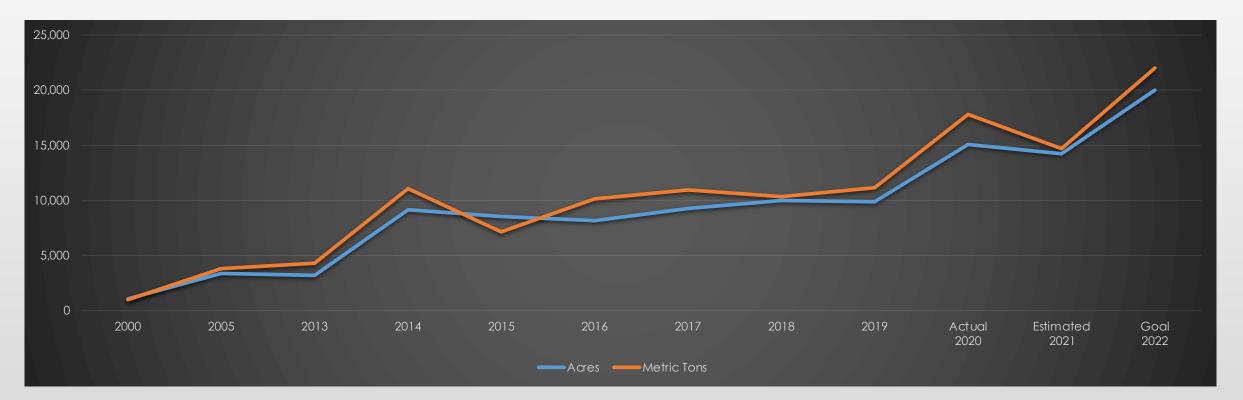
- 64 total Contract Growers – Ohio 43, Pennsylvania 18 and New York 3 in 2020 crop
- Opportunity to grow, diversify & be profitable
- Helps the greater community



### STRONG, TRUSTED PARTNERSHIPS



### **GROWING OUR FOOTPRINT**



- Our growth continues (20x since year 2000)
- Our goal for 2022 crop is to secure 20,000 acres to produce our goal of 22,000 MT



## **INVESTING IN TECHNOLOGY**

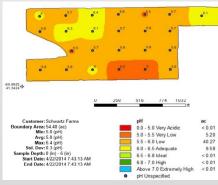




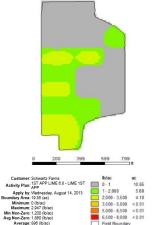


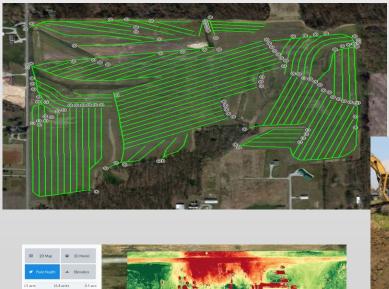


Soil test











- GPS systems used for:
  - Field Work
  - Tile Installation & Maps
  - Soil Testing
  - Fertilizer Applications
- Precision agriculture uses satellite & drone technology that result in energy savings



## **ADVANCING OUR FACILITIES**



Cleaner & Sorting by size



Magnet ① 10000 gauss



**Color Sorter** 



**De-stoner** 



Gravity table ①



Magnet 2 10000 gauss



Gravity table 2



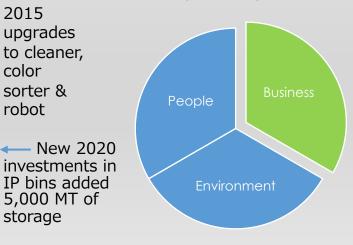
30kg, Tote bag & Bulk

2015 upgrades to cleaner, color sorter &

robot

storage

- Processing facility:
  - Able to sort 9.50MT per one hour
- Storage facilities:
  - Able to store 13,610 MT per year at home farm
  - Allows us to maintain IP and quality









FOOD

Period: 9/1/2020-7/1/2021 US Soy Export Sustainability



#### **LEADING IN SUSTAINABILITY CERTIFICATION**

		SOY EXPORT SUSTAINABILITYLLC
ALISTAINABILITI AUSTAINABILITA	CERTIFICATE oj	f SUSTAINABILITY
This is to certify that soybeans or soy products described herein were produced in compliance with	According to U.S. SOYBEAN SUSTAINA	BILITY ASSURANCE PROTOCOL
U.S. laws, regulations, production practices, and audit process as listed in the U.S. Soybean Sustainability Assurance Protocol. SOY EXPORT SUSTAINABILITY, LLC 16305 Swingley Ridge Rd. Suite 200 Chesterfield, M0 63017 USA CERTIFICATE VALIDATION Use the Certificate Number & the Certificate code below to validate this certificate on the secure SES Certification Portal (usses.org): Certificate Code: 096be0cbb97bf46ee1fd	NAME OF EXPORTING COMPANY Schwartz Farms	VESSEL/CARRIER NAME/SHIPMENT IDENTIFIER COSCO JAPAN V.063S Export Location: Prince Rupert, Canada
	DATE OF SHIPMENT February 2, 2018	PRODUCT
	METRICTONS <b>42.000</b>	
	CERTIFICATE NUMBER	Dan Schwartz
	SES-SSAP-US18-075417904	Company Representative
	DATE OF CERTIFICATION February 6, 2018	SES J. OPET
03006000037014066110	rebruary 0, 2010	

- 100% of Schwartz Farms soybeans are SSAP certified
- Transparency, traceability & competitive advantage in the supply chain



## **MEETING JAPANESE DEMAND**





- Specialist in IP Handling
- 99% Non-GMO guarantee
- Developing new seed with The Ohio State University and others
- We will continue to grow and supply food beans under thorough IP handling system even if Japanese "non-GMO labeling" regulation will be changed in 2023



## **PRIORITIZING SUSTAINABLE FARMING**

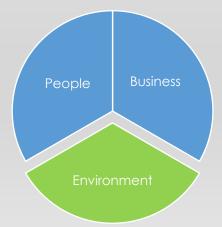
#### A FRAMEWORK FOR SUSTAINABLE FARMING



# SUSTAINABLE See U.S. Soy

We implement every pillar except for:

- #3 because our land is flat
- #10 & #11 because we get lot of rain and have heavy soils



1 PRECISION CHEMICAL APPLICATION 2 CONSERVATION RESERVE PROGRAM 3 TERRACES 4 SCOUTING 5 COVER CROPS 6 CROP ROTATION / DIVERSITY 7 NO-TILL / CONSERVATION TILLAGE 8 PRECISION NUTRIENT MANAGEMENT 9 REDUCING FUEL USE 10 IRRIGATION 11 WATER-STORAGE PONDS

#### **STRENGHTENING BEST PRACTICES**

CROP ROTATION EROSION CONTROL ONSERVATION TILLAGE OSSERVATION TILLAGE PEST MANAGEMENT Integrated Pest Management (IPM) Developing New Seed Cover Crop

NUTRIENT MANAGEMENT

People Business

Environment

## LOOKING AHEAD

At Schwartz Farms, we plan to advance our commitment to sustainable farming through the following efforts\*:

- People
  - İncrease outreach, education and communication with new and existing growers
  - Continue being transparent with customers w/ advances in technologies
- Business
  - Advocate for USSEC SSAP Certification
  - Optimize technology usage, data collection & analysis
- Environment
  - Continue to add new crops to our rotation plan
  - Continue to develop water runoff plans for all fields
  - Improve water quality by adding additional waterways

\*This is a sample of our short and long-term Sustainability Goals



# Thank you! ありがとうございました

Please email Masako Tateishi with any questions: <u>MTateishi@ct.ussec.org</u>



Visit our website for more information:

www.schwartzfarmsohio.com