



# Automated Sampling & Data Management




Better information . Better food



# **TECHNOLOGIES THAT CHANGED AGRICULTURE**





**5X YIELD  
INCREASE  
SINCE 1940**





**AIR  
CONDITIONING  
&  
SATELLITE RADIO**

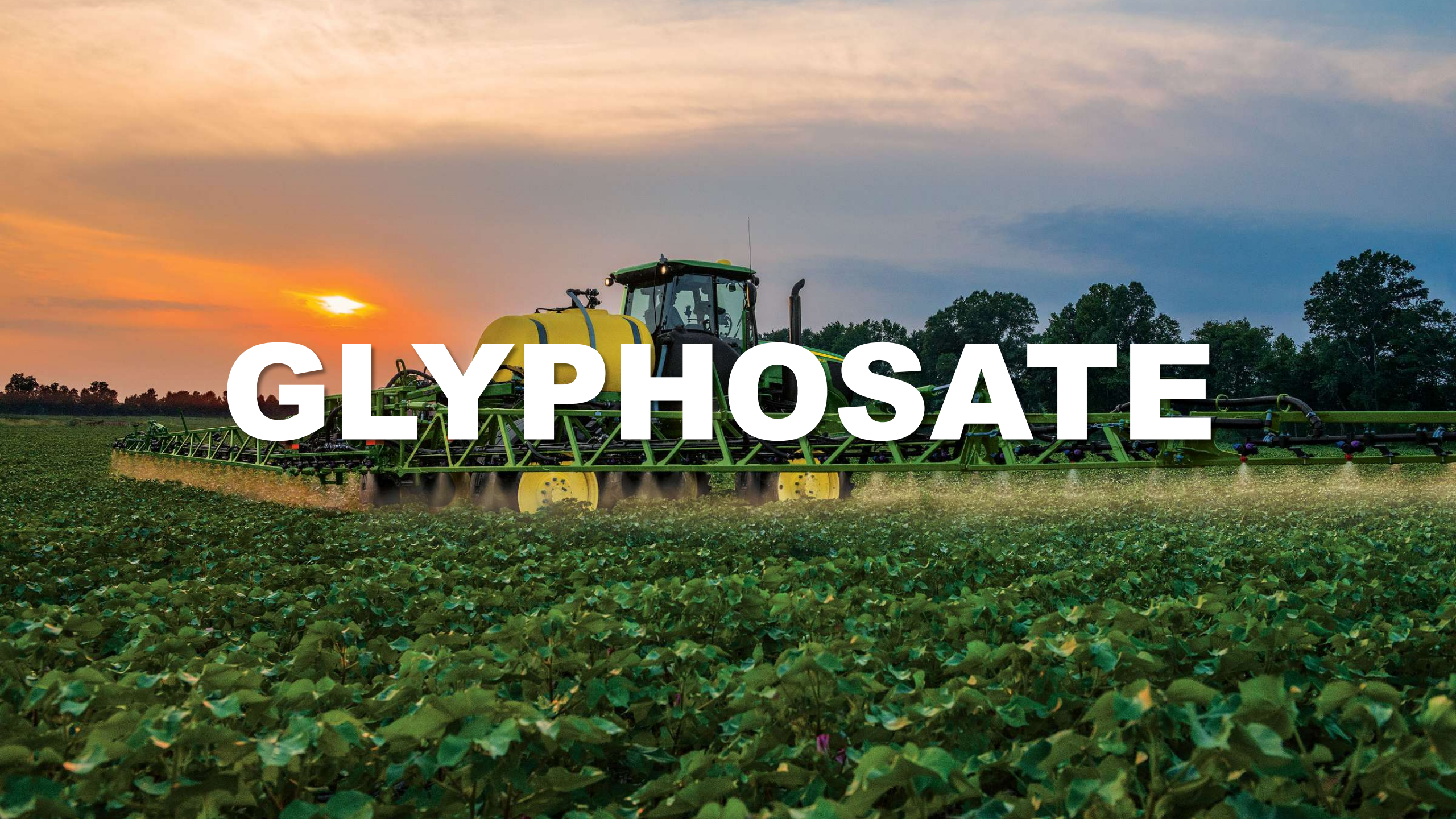


# FERTILIZER





# GLYPHOSATE





# ZERO TILL







# **PLANT BREEDING**

## **GMO . CRISPR**



# SENSORS





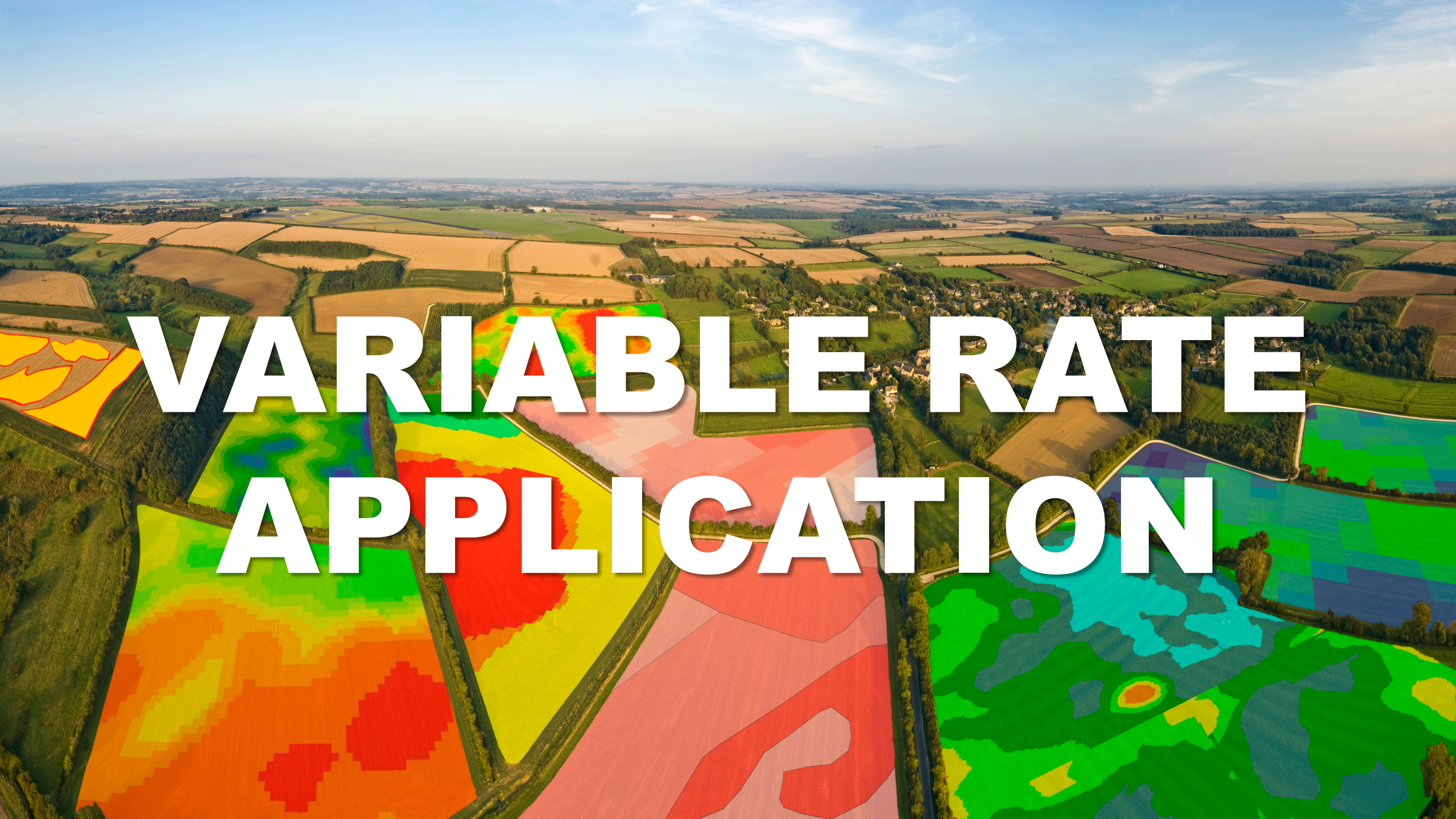


**IMAGING**

**&**

**IMAGE ANALYSIS**





# VARIABLE RATE APPLICATION



# The Food Chain Digital Information Gap











CAUSE



# Cause

Commodities varies in consistency

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Representative sampling is humanly difficult

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Insufficient or inaccurate samples





**NEW TECHNOLOGY**



A close-up photograph of a pair of weathered, brown-skinned hands cupped together, holding a large quantity of golden-brown wheat grains. The hands are positioned centrally, with the fingers slightly curled to support the pile of grain. The grain is a mix of whole wheat berries and some broken pieces, showing a natural, slightly uneven texture. The background is softly blurred, showing more of the same grain and the texture of a burlap sack. Overlaid in the center of the image, across the hands and the grain, is the word "CAUSE" in a large, bold, white, sans-serif font. The lighting is warm and directional, coming from the upper right, which creates highlights on the ridges of the hands and the tops of the grain, while casting soft shadows on the left side of the hands and the grain. The overall composition is centered and balanced, emphasizing the connection between the hands and the food they hold.

**CAUSE**



# Cause

Visual grading is inadequate and subjective

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Important characteristics are not visible



The image features four thick stacks of US dollar bills, likely \$100 bills, arranged in a crisscross pattern. The top-left stack is bound with a yellow rubber band and a white paper label that lists five "\$100000" entries. The top-right stack also shows a yellow rubber band. The bottom-left and bottom-right stacks are partially visible. The word "RESULT" is printed in large, bold, white capital letters across the center of the stacks. The background is a solid dark gray.

# RESULT



# Result

Commodities undervalued & underutilized

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Spoilage losses

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Missed food safety issues

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Poor traceability & sustainability measurement





# VeriGrain<sup>TM</sup>

Automated Sampling & Data Management

# Knowledge is Power



Sample Extractor

Control App



Sample  
Splitter,  
Storage, &  
Analytics





# Samples

Automatically extracted

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Accurate . Detailed . Representative

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Secured . Preserved



# Information

Digitized

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Complete . Blockchain secured

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Accessible & shareable globally



# Real-time

Characteristics determination

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Food security risk assessment

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Spoilage risk assessment

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Quantity tracking





# BENEFITS



# Producer

3-5% revenue increase

6-8x ROI

\$1.00/acre annual cost

Better information to negotiate a sale



# Processor - Shipper

3-5% net profit increase

6-8x ROI

\$1.00/tonne cost

Reduced sampling costs . Higher efficiency



# Seed Companies

Increased Revenue . Reduced costs

Identity preservation . Traceability . Increased performance



# Food Chain Benefits

Transparency . Traceability . Trust

Processors . Crushers . Millers . Feeders

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Brokers . Blockchains . Banks

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Sustainability measurement



# COMPANY





# PURPOSE

To maximize grain revenue and utilization  
through automated, representative, sampling  
and information management  
to create  
**transparency, traceability, and trust**



# SVG-Thrive Program Winner

“Most Valuable Agri-food Tech Accelerator Program”

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Intelliconn one of ten companies selected

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300 companies . 65 countries







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