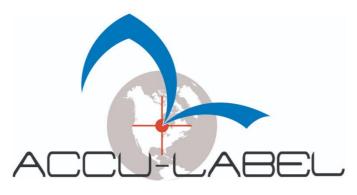
Labelling Technologies & Traceability Innovations







Joe Sleiman Founder & President Ag-Tronic Control Systems Inc. Accu-Label Inc. / Accu-Label International Inc.







Ag-Tronic Control Systems & Accu-Label



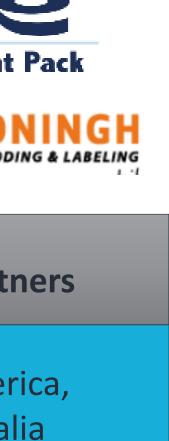
Engineering, Design & Development

Automations Solutions, Sizers, Graders, Height Control Systems, Machine Vision

Labelling Equipment and Labels

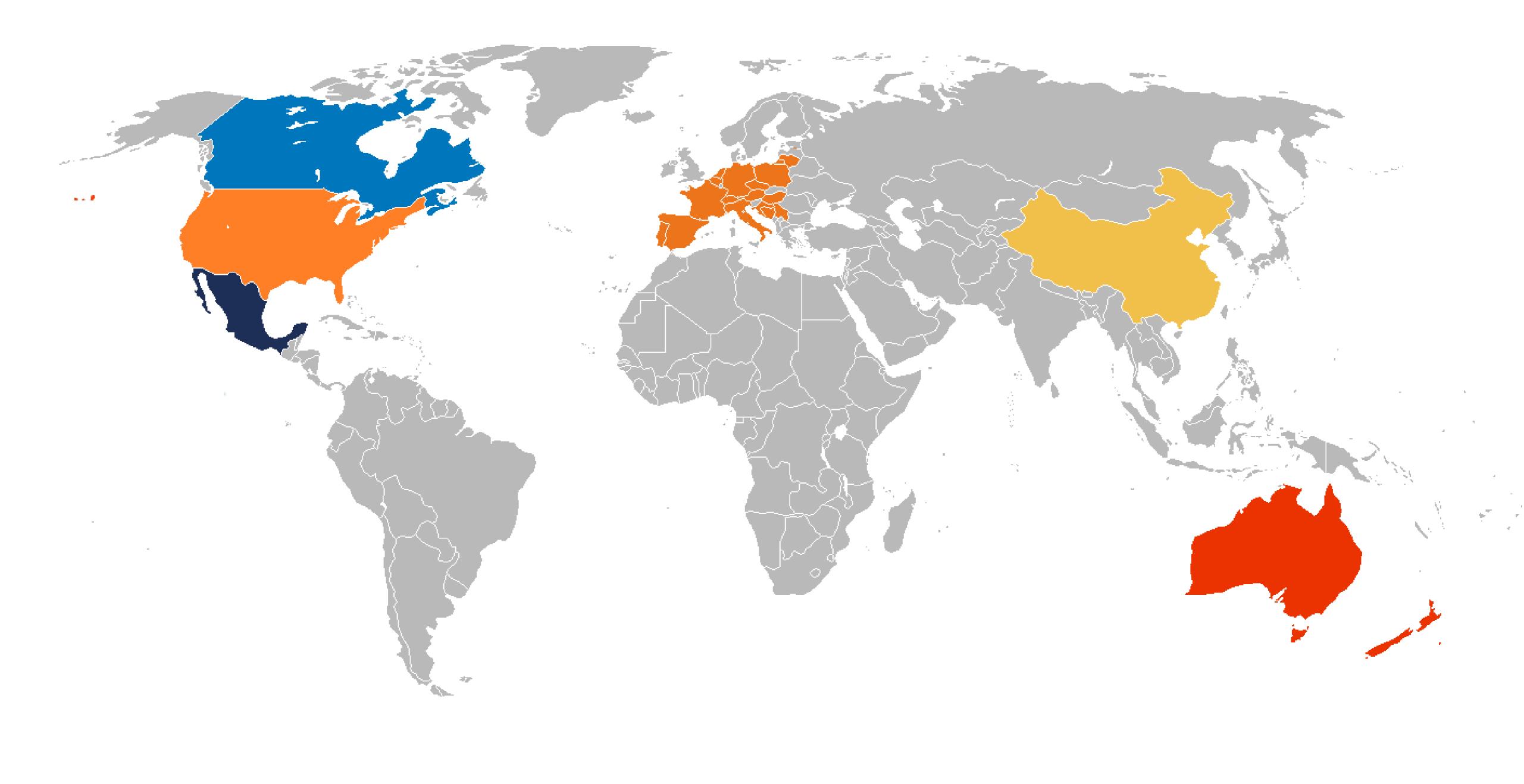
We exist to elevate Food Safety & Traceability through cutting edge Labelling Technology

Real-time Print & Apply[™] **ACS Print Verification Technology** Operations in North America, Europe, Asia and Australia



World Leader In Eco-Friendly Fruit Labelling Technology





Multistate Outbreak of *E. coli* O157:H7 Infections Linked to Romaine Lettuce (Final Update)

Food Safety Recalls Cost Most Food Companies \$30M

Foodborne Illnesses Cost the U.S. Up to \$93.2B per Year



Centers for Disease Control and Prevention CDC 24/7: Saving Lives, Protecting People™











THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES





Wouldn't it be great if each individual fruit had a passport?



REPORT OF AVIE

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E-Passports Embedded electronic chips



















The Evolution of Labels

Traceability, Transparency, Trust

Limited Usefulness

Traditional **Pre-Printed Labels**

Purpose

Product Look Up (PLU) enables cashiers to identify and scan products

GS1 DataBar: Stacked Omnidirectional symbol



Used for point-of-sale identification of loose trade items

Encodes a 14- digit data string with GTIN-8, GTIN-12, or GTIN-13

Item-Level Traceability (EX: Pack Date, Lot Code, Grower ID)

PTI Traceability (GTIN, PLU, Country of Origin,)



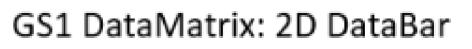
Real-Time Print & Apply Labels

Robust & Dynamic Data

Purpose

Improved traceability with the ability to apply grower code & lot code



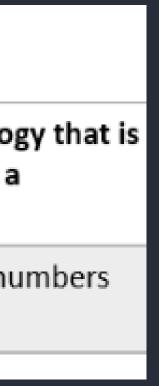




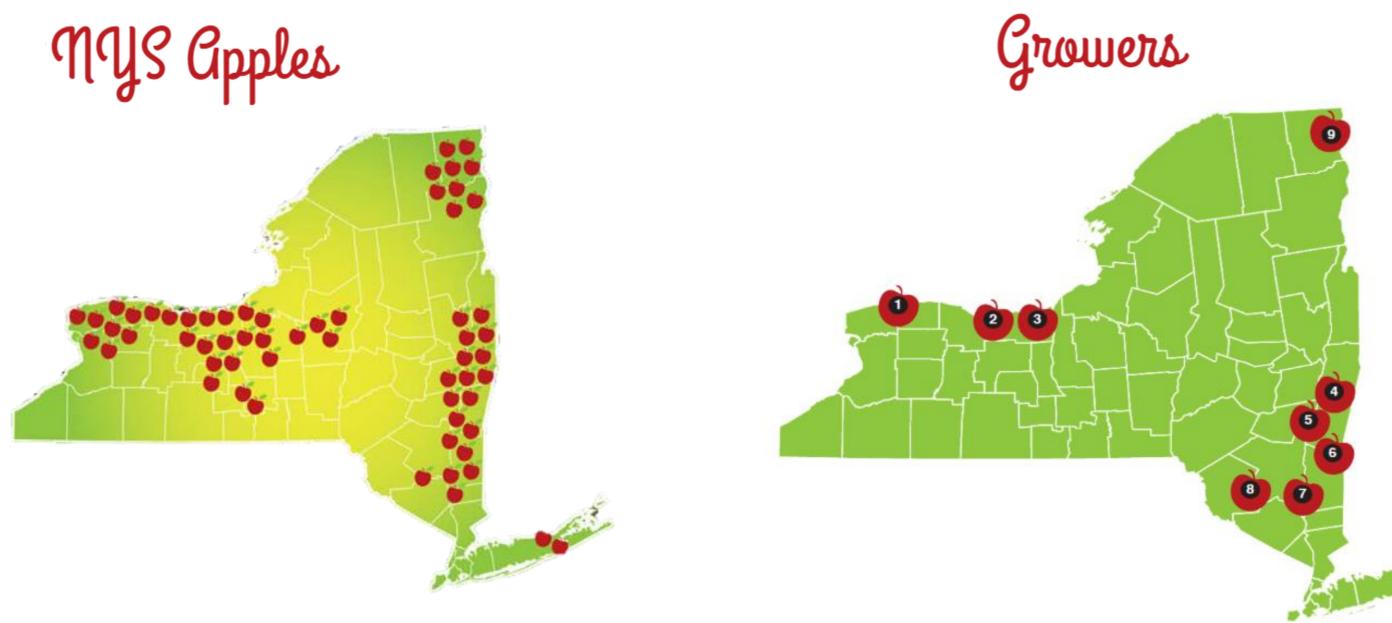
Standalone, two-dimensional matrix symbology that is made up of square modules arranged within a perimeter finder pattern

Encodes a 71 alphanumeric characters or 96 numbers





Case Study: New York Apple Sales Item-Level Traceability in Action





 \geq 30 million bushels annually

12 domestic 2 international growers

Each partners work with their own grower network of suppliers

APPLES CAN BE TRACED BACK TO THEIR SPECIFIC GROWER AND SPECIFIC ORCHARD



Imports and Exports



Export their apples globally including, North Ameria Asia, and Australia cross-border communications





Traceability

The ability to track and trace produce improves food safety

Transparency

Consumers care to know more information on a fruit's journey

Trust

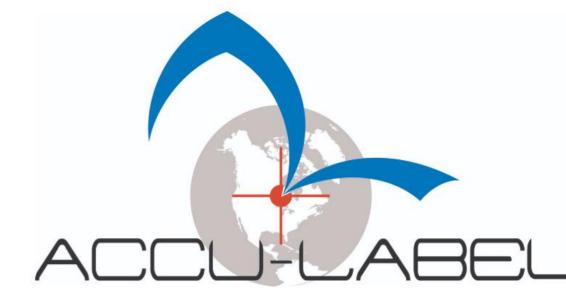
Consumer confidence creates brand loyalty





SECURITY PRINT

What's in a label? Security Print



Engineered to elevate food safety

Food Fraud costs \$30-40 Billion Annually





Traceability

The ability to track and trace produce improves food safety

Transparency

Consumers care to know more information on a fruit's journey

Trust

Consumer confidence creates brand loyalty





Initial Tear

What's in a label? Destructible Label



Engineered to elevate food safety

Food Fraud costs \$30-40 Billion Annually





Traceability

The ability to track and trace produce improves food safety

Transparency

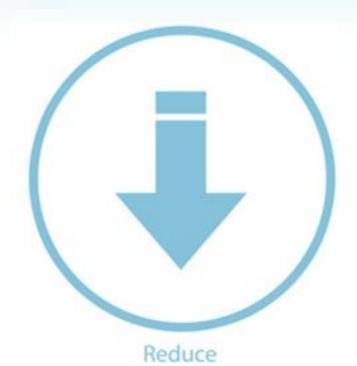
Consumers care to know more information on a fruit's journey

Trust

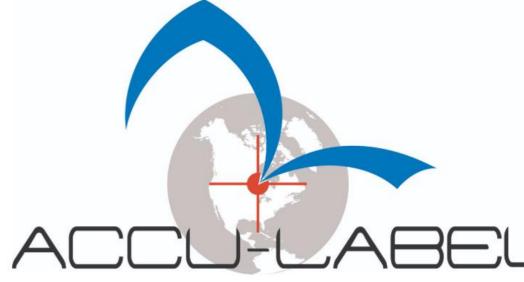
Consumer confidence creates brand loyalty



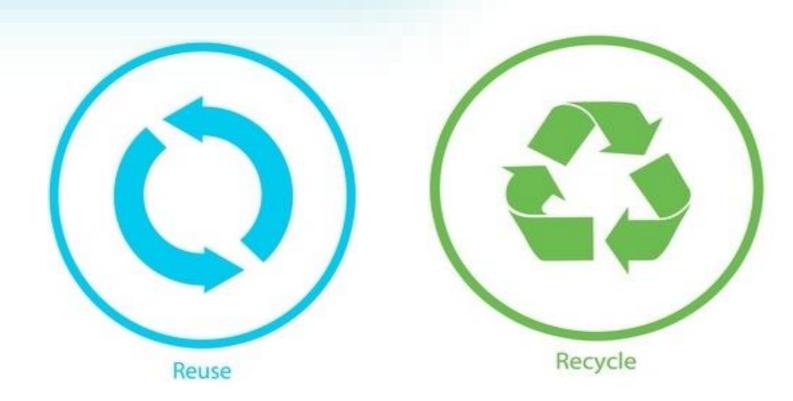




What's in a label? Degradable Labels



Engineered to elevate food safety





2019 **Retailers Mandate Blockchain**

Walmart ><

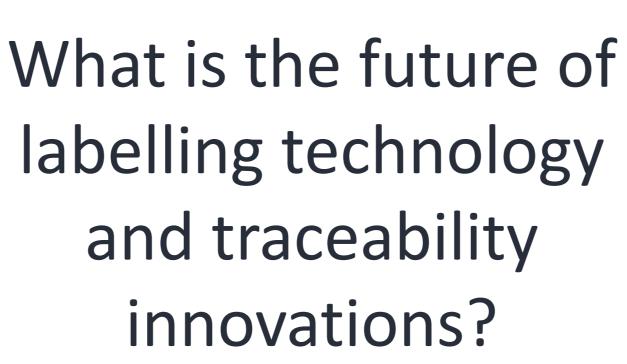


100 suppliers in leafy green category will be required to put food on the blockchain to continue supplying Walmart



Building on the PTI Initiative

CPMA pma

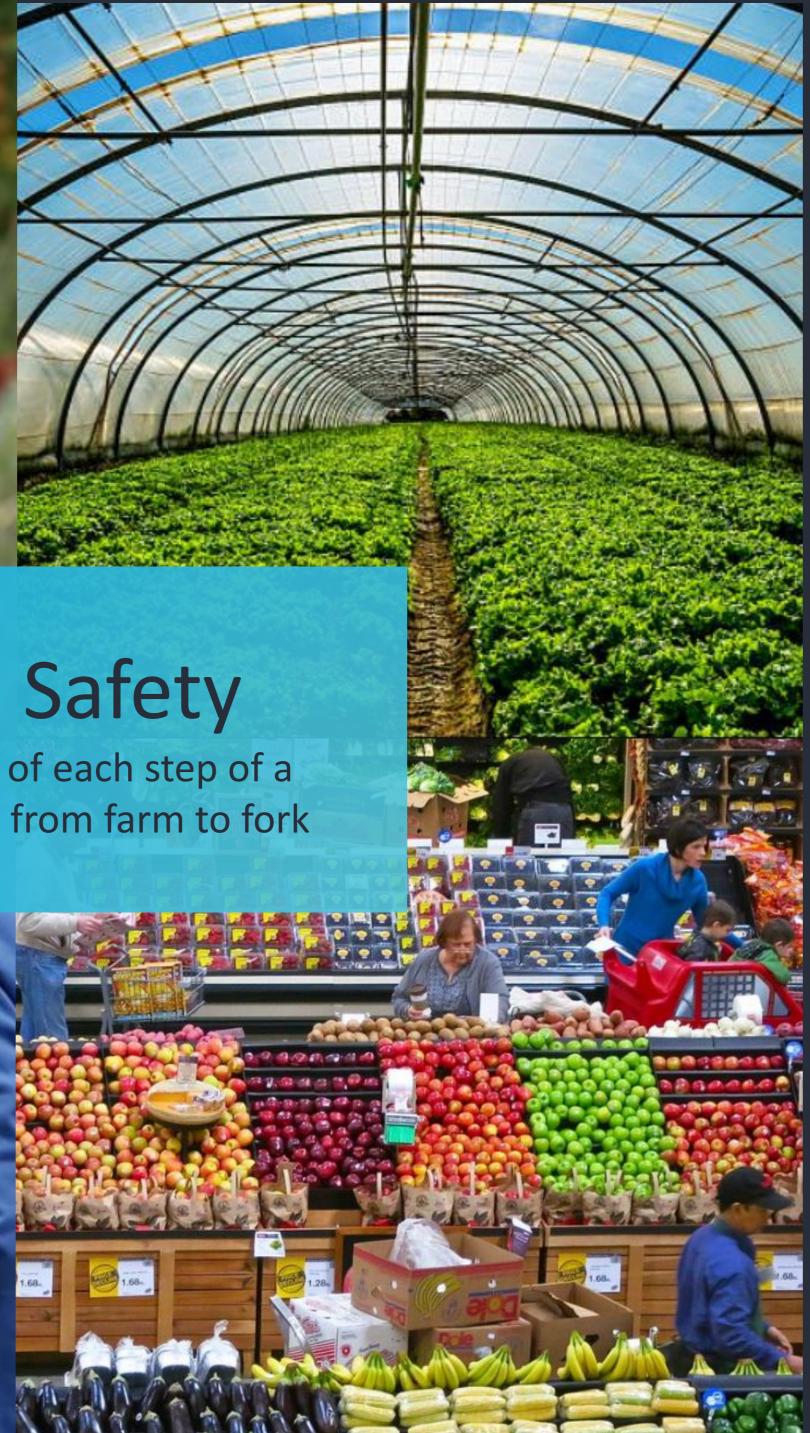








United



Food Safety

is at the core of each step of a fruit's journey from farm to fork

How You Can Transform Food Safety

Assess the ways that you might be exposed to food fraud, food traceability or food safety risks

Identify ways that *item-level traceability* directly on the label can augment your food safety program

Analyze your supply chains and how labelling solutions add value to sustainability, safety and traceability.

















Thank you Questions?

joe@accu-label.com President Ag-Tronic Control Systems Inc. Accu-Label Inc. / Accu-Label International Inc.









What is the Accu-Label Fruit Labelling Solution?

What factors are impacted by produce traceability?

What value does Print & Apply deliver?

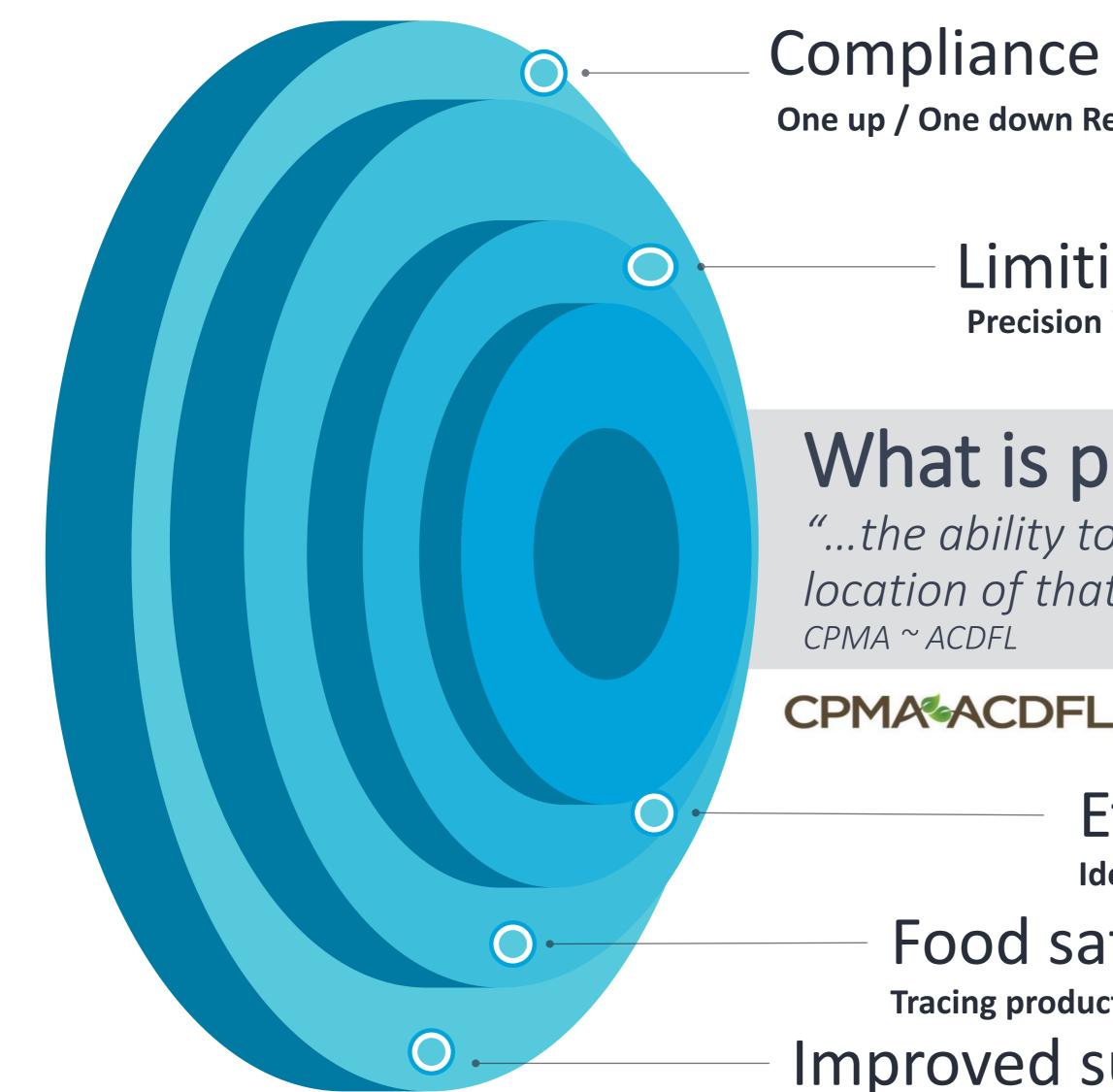
Item-Level Traceability

Stakeholder Specific Benefits

APPENDIX



What factors are impacted by produce traceability?



Accu-Label is committed to advancing produce traceability via labelling

Compliance with regulatory or industry requirement

One up / One down Requirement

Limiting recall scope

Precision in identification and withdrawal of product

What is produce traceability?

"...the ability to trace the history, application or location of that which is under consideration"

Effective quality management **Identify source of problems**

Food safety support

Tracing product vs ensuring food safety

Improved supply chain efficiencies





Superior Technology, Performance & Reliability

ORB-it[®] G-2 Waste Liner Rewind eliminates the noisy liner extraction units, and dramatically reduces breakdown and service requirements.

Reliable M INK-JET Technology proven 100% successful since 2008.

> Official Marca Specialty Printing Systems (SPS) Developer.

ORB-it[®] G-2 Print & Apply proven 100% successful since 2008.

Print variable information on labels as they are dispensed at over 15 labels per second.

> **<u>ACS Print Verification</u>** will inspect and verify each label prior to dispensing.

ORB-it[®] G-2 Tamping Bellows have patented dimples on the face specifically designed for applying labels to wet fruit at over 98% stick rate.

Item-Level Traceability Info (EX: Pack Date, Lot Code, Grower ID)

PTI Mandated Traceability Info (GTIN, Country of Origin, PLU)





What value does Print & Apply [™] deliver? Item-Level Traceability in Action

IDENTIFY YOUR PRODUCT TRACEABILITY INFORMATION

- Track each piece of fresh produce after it is out of its container to protect yourself
- ORB-it [®] G2 can print traceability information on the produce label, in **real-time** at a negligible cost.

Improved Response **Times During Recalls**

Robust Data

Improved Application Rates on Fruit

Reduce Inventory Requirement

Minimize waste with a smaller label

Reduced # of SKUs





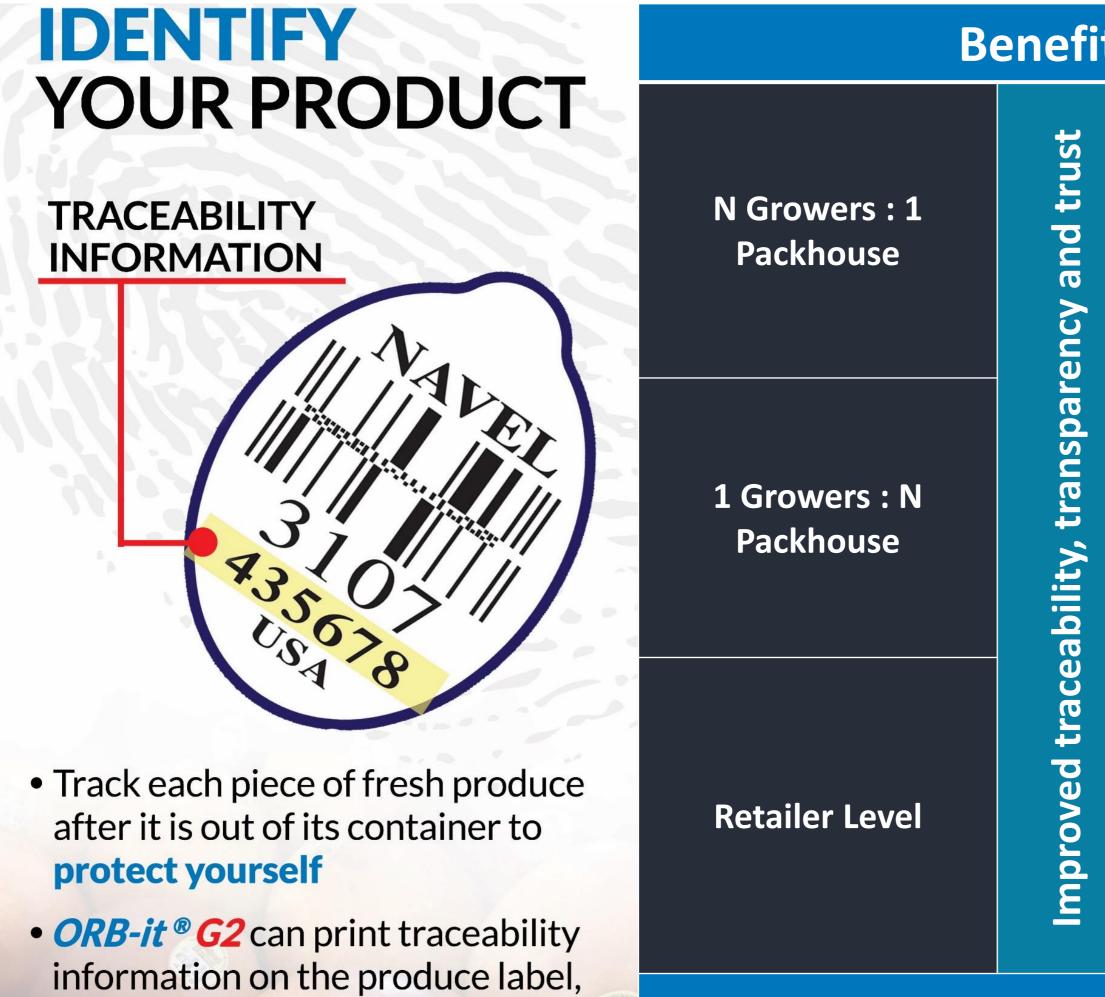
Benefits of real-time Print & Apply [™] on HP Ink-Jet[™]

Allows growers to respond versus react in times of recall with the to print grower code and lot code
More information can be encoded in a smaller space (Barcode / Matrix)
Smaller labels are able to better conform to smaller fruits and ac increased coverage rates at Point of Sale (POS)
Print & Apply™ allows generic labels to be kept on hand versus printed and real-time print allows operators to significantly reducted total level of on hand inventory.
Labels can be smaller in accordance to Accu-Label's suggested so
Regulatory bodies can consider removing the color coding require

Regulatory bodies can consider removing the color coding requirement since commodity specific information can be encoded directly on the label



What value does Print & Apply ™ deliver? Stakeholder Specific Benefits



in **real-time** at a negligible cost. **Future State of Tra**



Benefits of real-time Print & Apply ™ on HP Ink-Jet™



Enhanced visibility of which grower may be the root cause of contaminated product, in turn, can lead to increased amount of recourse during a recall .



1 Grower may sell product under different brands / distribution channels to reach different market segments. Print & Apply enables product to be traced from the grower to the packhouse which can mitigate risk during a recall.



Once products arrive at the store level, often times they are merchandised as bulk fruit where different products become mixed together. Print & Apply can help retailers curb immense food waste that occurs from throwing away otherwise safe product.

Future State of Traceability : The ability to provide consumers with details on a fruits journey from farm to fork

