Ontario Hazelnut Association - AGM



Tyler Whale President, OAFT



Other Ag Initiatives to Watch/Emulate







ONTARIO BIOMASS PRODUCERS CO-OPERATIVE INC.

for a cleaner tomorrow



Tavistock Hops Co.



What is Innovation??

Invention = \$ to create knowledge

Innovation = knowledge to create ROI

"Invention is GLOBAL, innovation is LOCAL"

-- Gord Surgeoner

It's not good enough to be great at invention

Need \$, talent, improved acceleration and adoption

'5 Horsemen' of disruptive technology

- Genetics
- Robotics/Automation
- > Artificial Intelligence
- > Nanotech/small molecules
- Digitization/Computers



Achieving our Genetic Potential...and Beyond



GRIPP joins OHA - 2017



Genetic Manipulation

- 1. Need clear/consistent regulatory pathway
- 2. Focus on CONSUMER benefit
 - Increased nutrition
 - Prolonged shelf-life
 - Better flavour
 - Environmental performance
- 3. Stress tolerance (climate)
- 4. Yield
- 5. New products from the same crop (beyond nuts)

Robotics and Automation



Korechi Innovations



IntelliCulture





Intelligent telematics for farm equipment management



Install

Receive

Save time & money

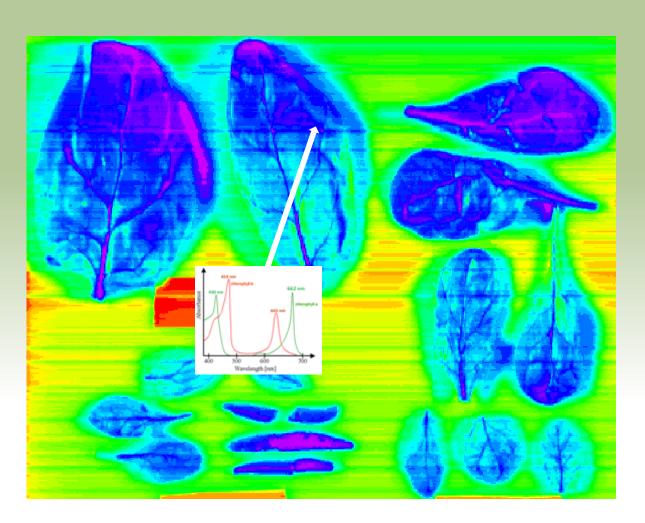
Waste Problem in Produce

- Current sorting technology is inefficient
 - Evaluates leaves based on size, shape, colour only
 - Waste stream over 80% is good spinach
- Volume! 3,300 pounds of spinach per hour
- Current level of waste has an accepted standard which isn't acceptable!
- In a highly-competitive market:
 - Increase capacity
 - Cut costs
 - Address inefficiencies

What comes first?



PPO Chemical Imaging



See chemical makeup:

 Moisture, degradants, impurities, chemical reactions, leaf health

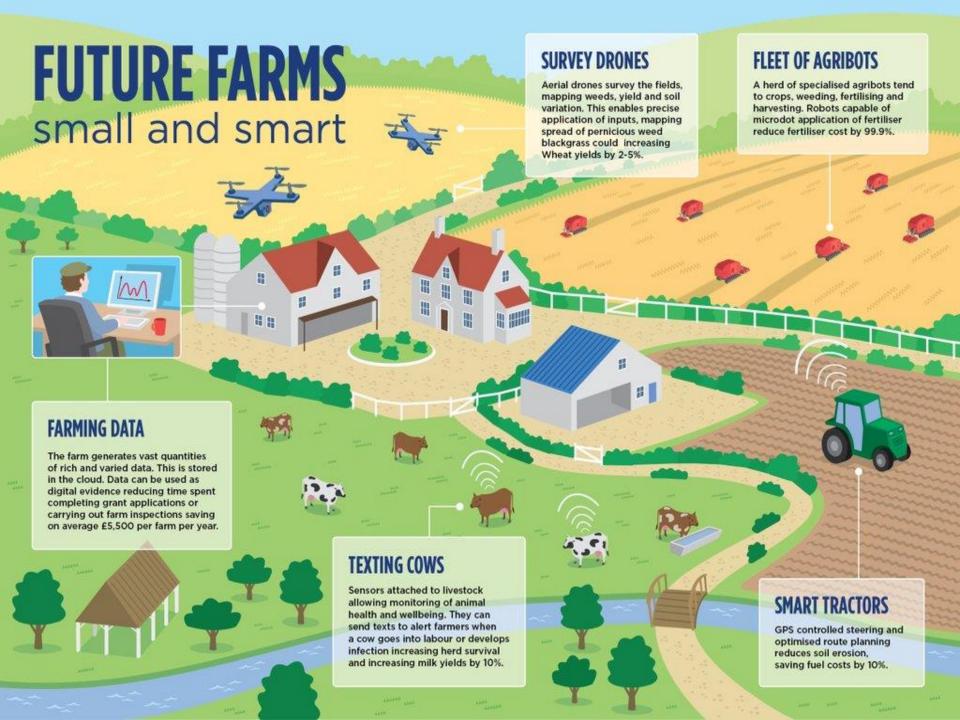
As well as:

 Size, colour, shape Artificial Intelligence and Digitization

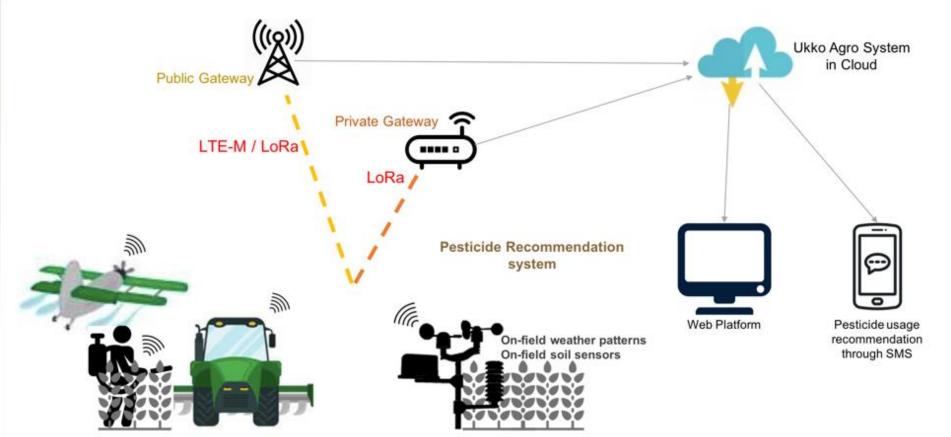












SPORNADO



Digital Transformation

- 1. Who owns your data and what is being done with it?
- 2. How easy is a technology to implement?
- 3. How much ROI do I get?
- 4. Can I 'divorce' my digital provider?

This is STILL a business based on TRUST!

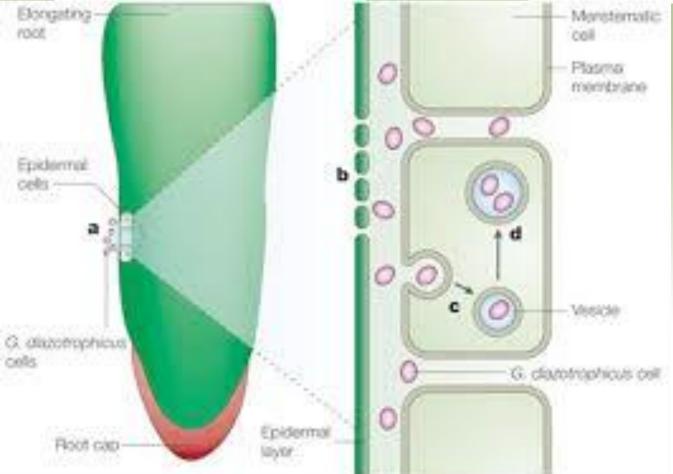
"If you don't like change, you're going to like irrelevance a lot less."

'Small' and Other Technology





Can Stock Photo



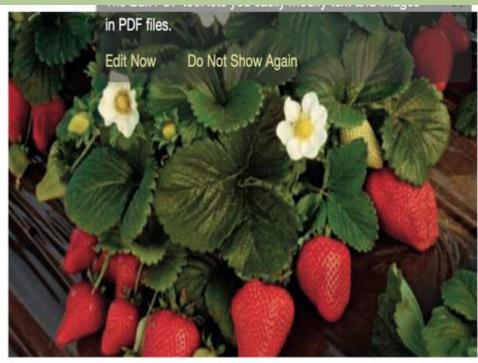
- 50-90%
 reduction in
 Fertilizer??
- Productivity GAINS!!



Metagenom Bio Agriculture



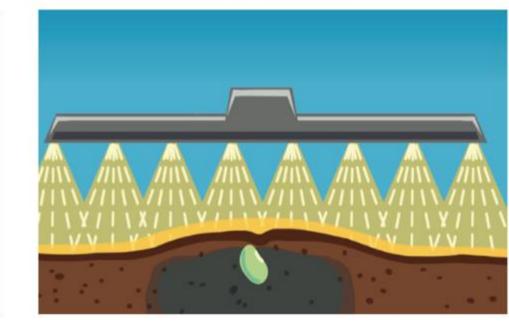




BioFusion

SOILARMOR®

Liquid bio-mulch replacing ~50m acres of field plastic









Call to Action...

- 1. Evolve compete or die
- 2. Think Global Canada can be more of a powerhouse in Food/Systems
- 3. Invest in your operation, in innovation (ROI), coordinate/cooperate, ADD VALUE
- 4. Communicate tell friends, family and politicians about our incredible food system

Thank you!

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