ONTARIO AGRI-FOOD TECHNOLOGIES
Farm Associations
- Dairy Farmers of Ontario
- Egg Farmers of Ontario
- Grain Farmers of Ontario
- Ontario Federation of Agriculture
- Ontario Fruit and Vegetable Growers’ Assoc.
- Ontario Pork
- Ontario Processing Vegetable Growers
- Ontario Soil & Crop Improvement Assoc.

Universities/Colleges
- Conestoga College
- Trent University
- University of Guelph

Industry
- Advanced Micro Polymers
- Ag Energy Co-operative Ltd.
- BASF Canada Inc.
- Bayer CropScience Canada
- BIOMAR Inc.
- BIOX Corporation
- Canadian Seed Trade Assoc.
- Dow AgroSciences
- GreenField Ethanol
- Guelph Junction Railway Co.
- IGPC Ethanol Inc.
- INAC Services Limited
- Ingredion Canada Incorporated
- Life Sciences Ontario
- MNP LLP
- Monsanto Canada Inc.
- Pioneer Hi-Bred Limited
- Polymer Distribution Inc.
- Royal Bank of Canada
- SPB Solutions Inc.
- Sevita International
- Syngenta Canada, Inc.

Government
- City of Guelph
- City of Port Colborne

Affiliates
- Ontario Ministry of Economic Development, Trade and Employment

Funding Partners
- Agriculture and Agri-Food Canada
- Ontario Ministry of Agriculture, Food and Rural Affairs
OAFT’s mission

• To ensure that Ontario agriculture has access to the latest technologies to compete in a global economy.

• To create market opportunities for the business of agriculture beyond traditional food and feed markets.
How do we do this...

1. Part of the Agri-Tech Commercialization Centre (BioEnterprise, Soy20/20, OAFT)

1. Networking is key! (dating service)

1. Positioned on many committees/boards
   - Eg: Industrial Bioproducts Value-chain

2. Key connections within all stakeholder groups (Academia, Industry, Producer Groups, Government)
OAFT programs

Members only:
• two members with a great idea
• $10,000 to develop business plan, etc.

Rapid Response to Business Opportunities (ROI >112:1)
• available to anyone
• not for “hunting expeditions”
• decision made with 48 hours
• covers expenses only

Capacity Building: (ROI >70:1)
• $10,000 to consultant to write proposal
• you must have skin in the game
• right funding body - line up ducks

Rapid Response to Research Needs
• 50/50 cost sharing to $20,000 from us
• Again, decision in 48 hours
• Based on project results report

Game Changer Videos
• Marketing videos for companies – see www.oaftgamechangers.ca
Our Story: Our founders have an extensive history in food and ingredients. Jerry Chizick, a seasoned Food Marketing and business executive, got together with Andrew Stewart, an experienced Food Technologist, to form a cutting-edge new company. Both were working on great food products with healthy ingredients when they decided to develop a breakfast cereal which they called “the healthiest food on the planet.” The project, which started as an idea for a very nutritious cereal, soon became an opportunity to use the mix in a variety of products. Amazing Grains provides nutrition-enhanced products that are simply as nutritious as mother nature designed them.
Satisfy the exploding Global and North American demand with a high protein, high quality specialized local Ontario quinoa.
Ontario Quinoa

Week 6

Week 8

Week 12
High Quality Quinoa

Our mission is to produce high protein, high quality Quinoa in Ontario.

- Excellent Source of Iron
- Excellent Source of Mg
- High in Protein
- High in Fibre
- High in Zinc
- Good source of Ca
Smart Greens
ZIPGROW FARM WALL

START GROWING
ZIPFARM
THE INDOOR FARM THAT SCALES
REQUEST MORE INFO
Intravision
About P&P Optica

• We manufacture innovative systems that generate chemical imaging data.

• Our innovative chemical imaging technology can “see” the chemical composition of materials.

• These materials include agri-foods of all kinds because food and chemistry are intertwined.
Agri-Food Industry: Address Key Challenges

**Efficiency**
- Optimize processes:
  - Reduce waste
  - Divert lower quality product

**Quality**
- Grading:
  - Increase revenues
  - Access new markets
  - Competitive advantage

**Safety**
- Foreign objects:
  - Recalls
  - Lawsuits
  - Prevention – costly and inefficient
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?

P&P Optica 2015
Traditional Imaging

Information about:

- Size, colour, shape
PPO Chemical Imaging

See chemical makeup:

- Moisture, degradants, impurities, chemical reactions, leaf health

As well as:

- Size, colour, shape
ENGAGE MEASURE & PROTECT YOUR BRAND

Everything you want to know is JUST A TAP AWAY
The Great Flood … of Counterfeits!

We have a big knock-off problem!

- **60 - 80%** of Canadian Icewine is Counterfeit
- **20%** of Wine Globally is Counterfeit
- Producers have no affordable digital authentication system
- Consumer mistrust of the distribution chain
- **$1.7 trillion** dollars of counterfeit goods
Customer Analytics
Sell more by knowing the 5 W's.

ENGAGE
MEASURE
&
PROTECT
YOUR BRAND
Tiny Particles with Huge Possibility
Introducing PhytoSpherix™

The world’s only Monodisperse, Natural Nano-Glycogen

Safe & Natural

PhytoSpherix™

Monodisperse

Non-toxic
Unique marketing appeal

“The main reason our material has such unique properties

“Safe & Natural?” Last year, ~300,000 tons of PhytoSpherix™ were eaten – now that’s a big experiment!
3 Huge Markets

Cosmetics
- Skin Creams
- Skin Health
- Anti-ageing

Pharmaceuticals
- Drug Delivery
- New Antibiotics
- Immunomodulation

Food & Nutrition
- Stabilize Vitamins
- Enhance Bioavailability
- Sports Drinks

Safe & Natural:
- Skin Creams
- Skin Health
- Anti-ageing
- Drug Delivery
- New Antibiotics
- Immunomodulation
- Stabilize Vitamins
- Enhance Bioavailability
- Sports Drinks

Confidential Property of Mirexus Biotechnologies Inc
Poultry

1. Rellidep – United Paragon Associates
   27M eggs/day

2. Egg Sexing Technology

1. AgriLux Poultry lighting
   2-3% increased production
Thank You

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