



Greenhouse Research Education And Training (GREAT) Institute

Exploratory Webinar

Thursday, June 25, 2020



University
of Windsor



Western
Science



TURBULENCE
& ENERGY LAB



environmental
energy institute



Greenhouse Research Education And Training (GREAT) Institute

Webinar Agenda

- 1030 - 1045** Concept Introduction.
- 1045 - 1115** Easy/Fun Interactive Feedback
and Stakeholder Inputs Solicitation.
- 1115 - 1145** Expert Commentary.
 - 1115 - 1122** Dr. Justine Taylor.
 - 1122 - 1129** Mr. Lucas Semple.
 - 1129 - 1136** Mr. Gene Ingratta.
 - 1136 - 1143** Mr. Peter Quiring.
- 1145 - 1200** Summary Comments and Next Steps.



University
of Windsor



Western
Science



TURBULENCE
& ENERGY LAB



environmental
energy institute



Greenhouse Research Education And Training (GREAT) Institute

MOTIVATION



University
of Windsor



Western
Science



TURBULENCE
& ENERGY LAB



YOU ARE ALREADY GREAT

So What Are We Trying To Do Here?

- The Ontario Greenhouse Sector is ripe with many examples of Research, Innovation, Commercialization, Education, and Teaching.
- The wealth of knowledge among Growers, Government Labs, NGO Agencies, Consultants, and Universities is staggering.
- Careful examination of the sector has revealed a wealth of untapped opportunities for markedly increased coordination, collaboration, and knowledge translation.



YOU ARE ALREADY GREAT

So What Are We Trying To Do Here?

COORDINATION



Avoid redundancy,
increase efficiency of
resource utilization.

COLLABORATION

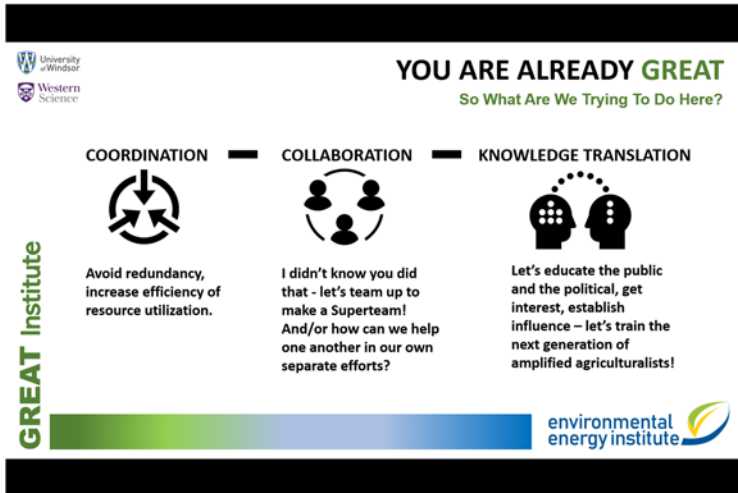


I didn't know you did
that - let's combine to
make a Superteam!
And/or how can we help
one another in our own
separate efforts?

KNOWLEDGE TRANSLATION



Let's commercialize
innovation, educate the
public and the political,
get interest, establish
influence – let's train the
next generation of
amplified agriculturalists!



YOU ARE ALREADY GREAT

So What Are We Trying To Do Here?

BUILD A BRAND FOR EXPORT



Many existing GREAT Stakeholders have already established globally recognized product brands. The same should be true for our GREAT Research, Education, and Commercialization.



Greenhouse Research Education And Training (GREAT) Institute

COMPOSITION



University
of Windsor



Western
Science



TURBULENCE
& ENERGY LAB



IT'S ALL ABOUT A **GREAT** NETWORK

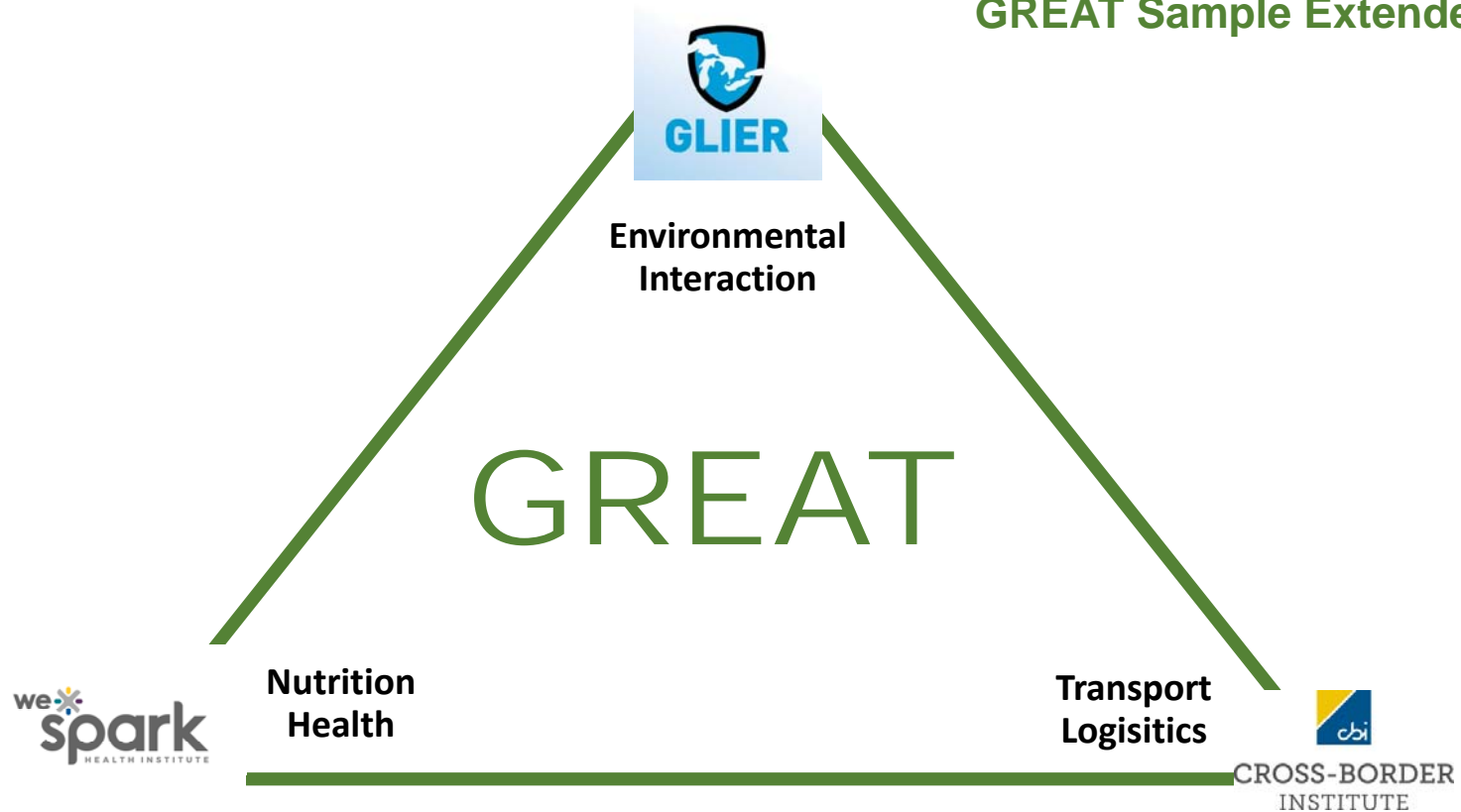
Core Components



GREAT Institute

IT'S ALL ABOUT A **GREAT** NETWORK

GREAT Sample Extended Partners



GREAT Institute



Greenhouse Research Education And Training (GREAT) Institute

JURISDICTIONAL SCAN



University
of Windsor



Western
Science



TURBULENCE
& ENERGY LAB



- **Wageningen University & Research is the only university in the Netherlands to focus specifically on the 'healthy food and living environment' theme.**
- **Five scientific research programs:**
 - **Circular and climate neutral**
 - **Food security and the value of water**
 - **Nature and inclusive transitions**
 - **Safe and healthy food systems**
 - **Data driven and high tech**

JURISDICTIONAL SCAN

What Else Is Similar Out There?



wur.nl/en/wageningen-university.htm

- SLU mission is to develop an understanding of sustainable use and management of biological natural resources.
- Major research areas include:
 - Ecology
 - Environmental Sciences
 - Plant Sciences
 - Forestry
 - Agriculture, Dairy, and Animal Sciences

JURISDICTIONAL SCAN

What Else Is Similar Out There?



Swedish University of
Agricultural Sciences



<https://www.slu.se/en/>

JURISDICTIONAL SCAN

What Else Is Similar Out There?

- The CEAC provides education, research, outreach, and extension activities, and includes advanced technology greenhouses and growth chambers, as well as office, laboratory and teaching facilities.
- Innovative facilities include:
 - Teaching and R&D Greenhouses
 - Vertical Farm
 - Aqua Farm
 - Mars-Lunar Greenhouse

University of Arizona CEAC

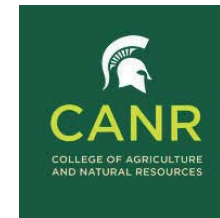


<https://ceac.arizona.edu/>

JURISDICTIONAL SCAN

What Else Is Similar Out There?

- The MSU College of Agriculture and Natural Resources strives to advance the knowledge for the management of communities and agricultural, natural resource, and food systems to meet diverse human needs in a sustainable manner.
- Four pillars include:
 - Agriculture: Plants and Animals
 - Human Health: Food and Nutrition
 - Built Environments: Construction and Design
 - Natural Resources: Sustainable Environments



MSU College of Agriculture
and Natural Resources



canr.msu.edu

JURISDICTIONAL SCAN

What Else Is Similar Out There?

The Quebec Reference Center for Agriculture and Agri-food (CRAAQ)

- CRAAQ is a not for profit organization dedicated to knowledge transfer in the agricultural and agribusiness sectors.
- The organization is made up of an extensive network of advisory services including 400 dedicated experts throughout Canada who share information with over 5,000 professionals, as well as with approximately 15,000 agricultural and food companies.



craaq.qc.ca/en

JURISDICTIONAL SCAN

What Else Is Similar Out There?

- Vineland is a non-profit, Canadian results-oriented organization dedicated to horticulture science and innovation.
- Research programs include:
 - Biocontrol systems
 - Automation
 - Plant variety development
 - Consumer insights
 - Greening the landscape



vinelandresearch.com

JURISDICTIONAL SCAN

What Else Is Similar Out There?

- ACIAR funds and connects agricultural researchers in Australia to the developing world, achieving more productive, resilient and sustainable agriculture.
- Priorities include:
 - Food security and poverty reduction
 - Capacity building
 - Human health and nutrition
 - Inclusive value chain
 - Natural resources and climate change

Australian Centre for International
Agricultural Research



aciar.gov.au



Greenhouse Research Education And Training (GREAT) Institute

STAKEHOLDER SURVEY



University
of Windsor



Western
Science



TURBULENCE
& ENERGY LAB

