

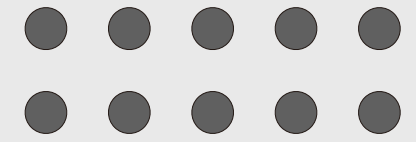
A photograph of three potted herbs. In the background, a sage plant with large, textured green leaves is in a terracotta pot. To its right, a thyme plant with small, dense green leaves is also in a terracotta pot. In the foreground, a rosemary plant with needle-like green leaves is in a terracotta pot, which is placed on a rustic wooden plank. A small sprig of thyme lies on the white surface to the left of the rosemary pot.

INVESTOR PRESENTATION

# INTERNATIONAL **zeolite**

**The Next Generation in Plant Nutrient Delivery**





# FORWARD LOOKING STATEMENTS

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# ABOUT US

International Zeolite Corp. is a publicly traded company. Our focus is on developing sustainable innovations around naturally occurring zeolite that address environmental concerns within the agricultural, industrial and consumer use segments.







# OUR MISSION

We are passionate about developing and providing sustainable zeolite-infused products for use in agriculture and aquaculture. With our patented line of NEREA<sup>®</sup> products, we plan to change the way crops grow and help farmers reduce their ecological footprints through lowered green-house gas emissions and a reduction in the need for traditional fertilizer.



# LEADERSHIP



**MARK PEARLMAN**

**PRESIDENT & CHIEF  
OPERATING OFFICER**



**GERARDO RODRÍGUEZ-FUENTES**

**CHIEF SCIENCE OFFICER**



**RAY PAQUETTE**

**CHIEF EXECUTIVE OFFICER**



**HATEM KAWAR**

**CHIEF FINANCIAL OFFICER**

# OUR TEAM



**DEREK SCHULZE**  
**HEAD OF PRODUCTION**



**FELICIA PEARLMAN**  
**MARKETING &  
COMMUNICATIONS  
SPECIALIST**



**COLLEEN DIAMOND**  
**ESG LEADER**



**ANDREW CORRADINNI**  
**CONSULTANT  
BUSINESS DEVELOPMENT**



**CATHERINE BECKETT**  
**CORPORATE SECRETARY**





# The Problem: **AGRICULTURE MUST CHANGE**

**FOUR PRIMARY ISSUES**





1

# FERTILIZER MODEL IS UNSUSTAINABLE

- WASTEFUL
  - 1/2 OF WHAT GOES IN IS NOT USED BY PLANTS
- INEFFICIENT
- COSTLY
- RESOURCE INTENSIVE
- ENVIRONMENT DECAY
  - LEACHING
  - RUN OFF
  - GHG IMPACT





2

# POPULATION EXCEEDS FOOD SUPPLY

FARMERS WILL HAVE TO  
PRODUCE 70% MORE FOOD BY  
2050 TO MEET THE NEEDS OF  
THE WORLD'S RISING  
POPULATION ESTIMATED  
AROUND NINE BILLION

**-The UN Food and Agriculture Organization (FAO)**





3

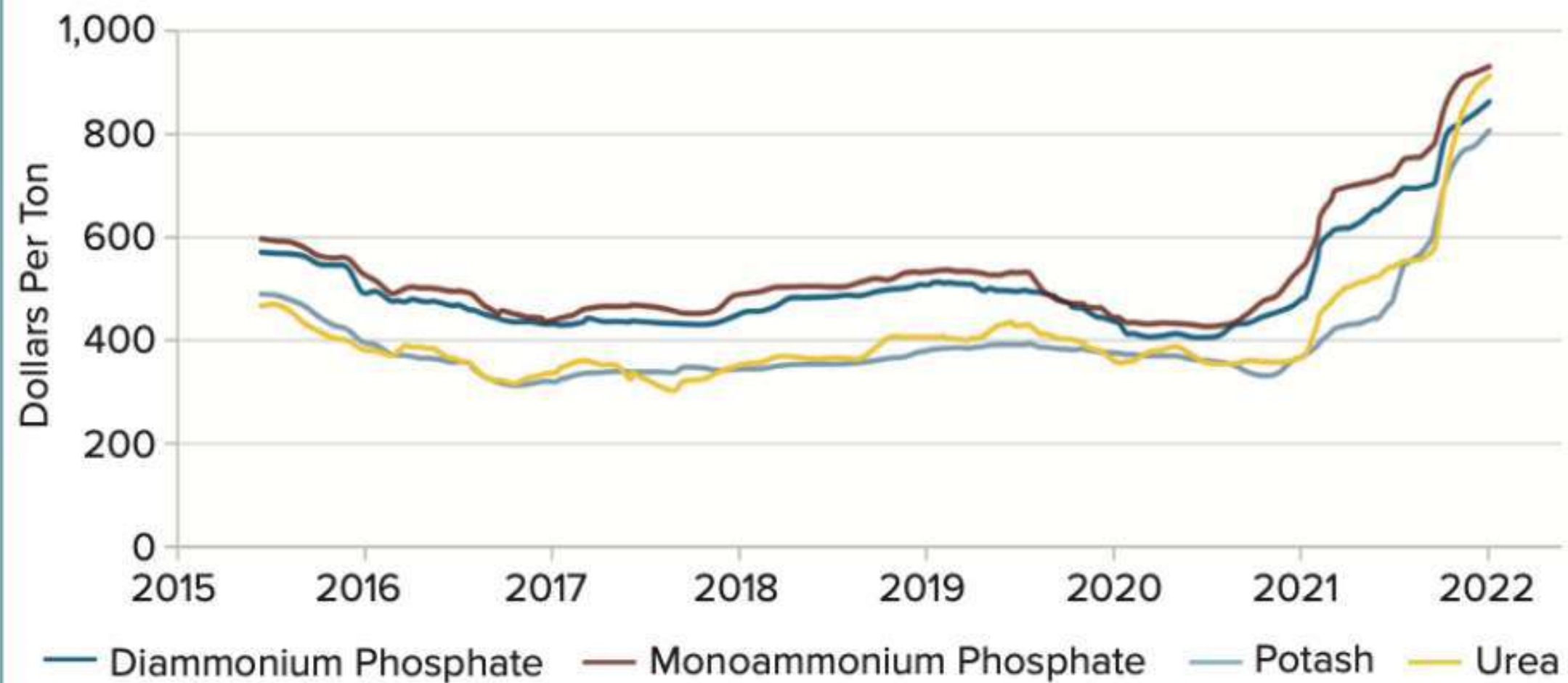
# MOVING TOWARDS ZERO GHG EMISSIONS

CANADA'S ENHANCED  
NATIONALLY DETERMINED  
CONTRIBUTION (NDC) TO THE  
UN IS COMMITTING CANADA  
TO CUT ITS GREENHOUSE GAS  
EMISSIONS BY 40-45 % BELOW  
2005 LEVELS BY 2030.

**-The Minister of Environment and Climate Change**



Figure 1. U.S. Fertilizer Prices



Source: DTN. Available at: <https://www.dtnpf.com/agriculture/web/ag/crops/article/2021/12/15/nitrogen-fertilizer-prices-continue>.

**Rising North  
American  
Fertilizer Prices**



# THE SOLUTION

# NEREA®



## A REVOLUTION IN PLANT NUTRITION

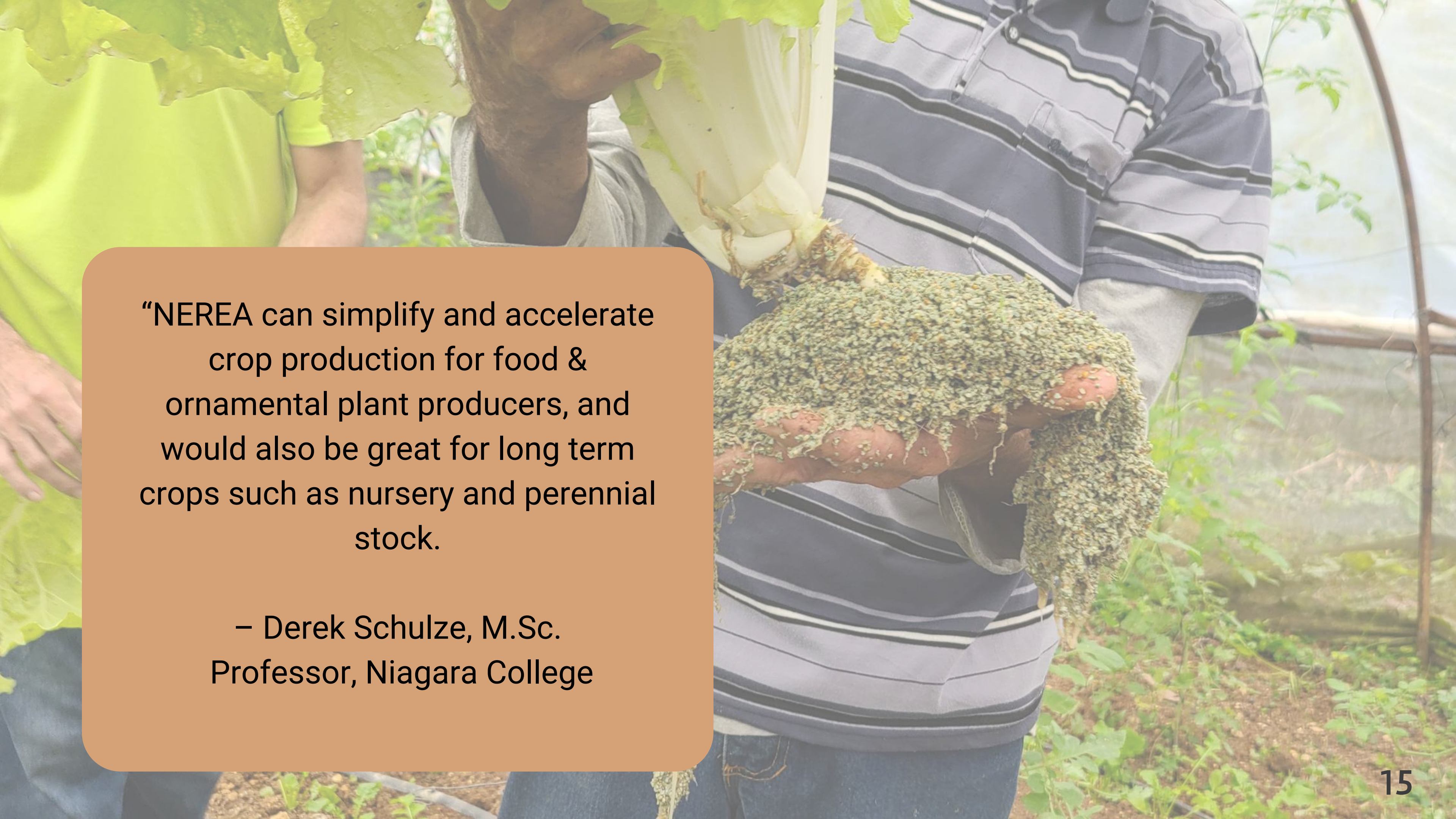


# NEREA<sup>®</sup>

- IZ's patent pending method of plant agronomy
- Solid-State Hydroponic technique
- Clinoptilolite Zeolite as foundation
- Porous zeolite is loaded with full nutrient suite
- Plant regulated cation-exchange capacity (CEC)
- Potential to mature crops and increase yields at optimal rates and reduced input costs
- Reduces GHG Emissions





A person wearing a grey and blue striped shirt is holding a large head of lettuce in their left hand and a tray of small green seedlings in their right hand. The background shows a greenhouse structure with other plants.

“NEREA can simplify and accelerate  
crop production for food &  
ornamental plant producers, and  
would also be great for long term  
crops such as nursery and perennial  
stock.

– Derek Schulze, M.Sc.  
Professor, Niagara College



# OUR PRODUCTS

Our primary focus is on our NEREA® line of products. Each unique iteration uses NEREA® as a basis to improve agriculture through increased crop size and yield and reductions in problematic waste from traditional fertilizer methods



## NEREA® FERTILIZER

Contains all the nutrients necessary for the plants in a balanced way applied after seeds have germinated and contains higher levels of NPK than the Substrate



## NEREA® PLUS

Micronized zeolite containing full suite of micro & macro nutrients required by growing plants. Applied by suspension in water. Sprayed on leaves of maturing plants or fruit using manual or mechanical spraying equipment, with a stirring system



## NEREA® SUBSTRATE

Developed for the germination of seeds. Contains all the micro and macro nutrients needs for plant germination. Particle size between 1 to 4 MM in size





# TRIAL RESULTS





Agriculture &  
Environmental  
Technologies  
Innovation  
Centre (AETIC) at  
Niagara College

**Showcasing a reduced total  
crop time by one to two weeks  
when comparing lettuce  
planted in a standard Oasis  
Cube with NEREA®**

## **NEREA® TRIAL RESULTS VIDEO**





\*\*Canadian farmers harvest both basil & Lettuce at an average of **12 Crops** annually using standard growers mix.

Basil yielded **four** additional crops with NEREA<sup>®</sup> at 16/ Year



Lettuce yielded **six** additional crops with NEREA<sup>®</sup> at 18/ Year



\*\*Resulting from independant trials at public/private research institutes





(grower wholesale figures)

# Increased Basil Profit with NEREA®

16 Basil Crops Per Year at 23 Days Per Plant = \$593.00/ tray



\*\*Canadian farmers harvest 12 Basil crops annually @ 30 Days a Plant  
Generating \$445.00 to \$471.00 per tray

# Increased Lettuce Profit with NEREA®

18 Lettuce Crops Per Year at 23 Days Per Plant = \$586.00/tray



\*\*\*Canadian farmers harvest 12 Lettuce crops annual @ 30 Days a plant at  
approx \$391 to 415.00 per tray

\*\*Resulting from independant trials at public/private research institutes





# NEREA® vs. CONVENTIONAL FERTILIZER

Drives Significant Cost Savings & Reduction in Green House Gases

	Fertilization Rates	\$/ha	NEREA®	Savings	% Savings
Spring Wheat	196 kg/ha	\$405	\$216	\$189	47%
Canola	236 kg/ha	\$454	\$259	\$195	43%
Strawberry GH (eight months)	112 kg/ha	\$786	\$684	\$102	13%
Potatoes	561 kg/ha	\$1560	\$1224	\$336	21%

\* BASED ON VALIDATION STUDIES CONDUCTED



# Steps To Market Penetration

## **1. Trials**

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Continue independent studies showing value-add of NEREA<sup>®</sup> Grow System

## **4. Acquire Early Adopters**

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Partner with early adopters to perform trials in commercial fields

## **2. Establish Production Facility**

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Demonstrating local production capability and supply of NEREA<sup>®</sup>

## **5. Marketing & Commercial Activity**

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Engage future interest, implement marketing programs and evaluate awareness amongst agriculture community

## **3. Establish local R&D for core technology**

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Facility for collaboration with early adopters and majority commercial growers

## **6. Secure Partnerships**

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Partner with national and global suppliers [i.e Hawthorne group, Jiffy, Hydrofarm]



# International Zeolite Adoption Goals

Year	2023	2024	2025	2026	2027
Farms Onboarded	100	800	1,600	2,500	5,000
Acreage Coverage	8200	656,000	1,312,000	2,050,000	4,100,000
NEREA® Sales Per Tonne	2700	4,000	7,500	10,000	12,500

**Scale Sizing:**

**Total farms: 193,492 | Total acreage: 158.7mm (avg 820 ac)**



# Toronto Stock Exchange

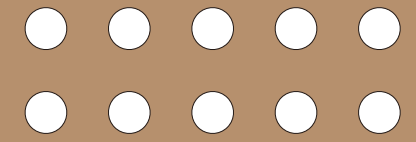
## DATA & STOCK INFORMATION

TSXV: IZ	
Shares Outstanding	41 276 962
Options	2 925 000
Warrants	1 143 750
Fully Diluted	45 345 712
Debt	Nil

SHAREHOLDERS	SHARES (M)
Founders & Management	~12M
Long Term Investors	~16M
TOTAL	~ 68%



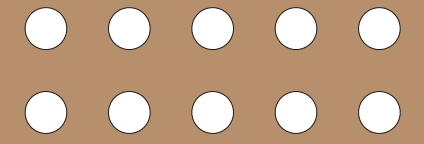
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