# GreenScience Technologies 7 PITCH DECK ROUGH DRAFT.



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# About GreenScience.





GreenScience Prouldy claims itself to be Inventor of unique method to convert food waste into worm castings - a high value, natural soil additive and Operator of urban based worm farms that produce large volumes of worm castings for sale.

GreenScience was founded in 2019 and is based in Toronto, Ontario Canada.





### The Current Problems. **CURRENT PROBLEM #1: OUR FOOD SYSTEM IS RADICALLY INEFFICIENT.**

### 01

Food waste is a significant global issue. Over 30% of food is lost or wasted annually, a staggering 1.3 billion tons.

### 04

Approximately 4 million tonnes of Food loss and waste are generated in Canada every year.



#### 02

EPA estimates that in the U.S, 24 percent of material in municipal solid waste landfills is food.

#### 05

Canada wastes \$31 billion worth of food every year (40% of annual production), most of the which ends up in the landfills.

#### 03

Wasted food has an outsized impact on landfill methane emissions: it is responsible for 58 percent of landfill methane emissions to the atmosphere.

#### 06

75% of all US food waste is sent to landfill (27 million tonnes in 2015)

### The Solution. INTERNAL COST COMPARISON, FOR I TONNE OF TYPICAL DIVERTED FOODWASTE.

BUSINESS MODELS

**TRADITIONAL MODEL** 

**GREENSCIENCE MODEL** 



COLLECTION OF WASTE	TRANSFER STATION HANDLING	TRASPORTED TO LANDFILL	LANDFILL TIP FEE
\$	\$\$	\$\$\$	<b>\$\$\$\$</b>
<b>\$39</b>	<b>\$181</b>	N/A	N/A





## The Solution Summary Comparison. THE GREENSCIENCE SOLUTION IS AN IMPROVEMENT ACROSS THE BOARD

### ECONOMIC

BUSINESS MODELS	REVENUE PER TONNE
TRADITIONAL MODEL	\$240
<b>GREENSCIENCE MODEL</b>	>\$526

Source: Food Waste Footprint & Climate Change, FAO 2011





### FUNCTIONAL

TIMES TRANSPORTED	ZERO ODOURS	URBAN DEPLOYABLE	METHANE PER TONNE
2	X	X	.84
1			0



### ENVIRONMENTAL

# The Challenge.



disposal.





October 2023

# Wasted Food Scale



#### Send Down the Drain, Landfill, or Incinerate

with or without energy recovery

#### Anaerobic Digestion

with disposal of digestate/biosolids

\_\_\_\_ or \_\_\_\_

Apply to the Land

Compost

---- or -----

Anaerobic Digestion

with beneficial use of digestate/biosolids

## The Product The Worm Works.

Worm Works is a loT Connected device allowing for remote operation and optimization of its internal environment. Future developments will incorporate machine learning to automatically and in real-time adjust performance factors based on analysis of incoming feedstock.

### Whats Included:



Machine: Convert feed stock to vermicast.







Product: Back mixed, enhanced, epigeic-converted vermicast product.



- Method: For converting feed stock to vermicast.

(O) System: Feed stock to vermicast converter system





Jurisdictions: Canada, Application CA3045320A1 **US Patent Granted** 



# The GreenScience Solution. THE SOLUTIONS: Diverting waste food from landfill disposal.

### 01

### COLLECTION

Collect food waste from ICI Customers

### 03

### SELL

Sell Worm Castings via multiple retail & wholesale channels

### 02

### PRODUCTION

Worm Works continuously produces castings from food waste in a controlled environment

### 04

### MARKET RESEARCH

Castings enhance the food cycle, end up back as waste



# Flow Diagram Typical GreenScience Worm Farm Process Flow Diagram (Not to Scale)





# Funding Request and Use of Funds GreenScience is raising \$700,000 to build initial commercial-sale POC.



People 32%

### **Accelerating Key Goals:**

**Secure Top Hires** Assemble a high performing team across key functions.

Accelerate Product Development Agile development for quick and stable deployment.

rentention.

### Deliver Ready-to-Market Product

Develop a product that ensures user

### Future Solutions to Use of Agricultural Chemicals. The solution part 2: worm castings. How Worm Castings Benefit Soil:

01

### CASTING PROPERTIES

• Organic and Non Toxic.

 Contains Essential Minerals for Plant Growth.



02

### SOIL REMEDEDIATION

- Supresses Pathogens and Supresses Pests.
- Remediates Polluted Soil.

### 03

### SOIL ENHANCEMENT

- Improves Water Retention (7x natural soil) and Improves Soil Aeration
- Increases Microorganism Population and Increases Fertility (10x compost)

### 04

### GROWTH OUTCOMES

Regulated Plant Growth.

• Higher Plant Yields.



## Future Milestones. 2024 Roadmap.



Q3 2024

Secure \$700,000 Seed Round. Recruit management team and finalize engineering and production of Worm Works unit. Create LP financing documentation and marketing material.



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Q4 2024

Market LP opportunity to prospective investors to raise funds for POC Farm in Greater Toronto Area (GTA).



## Future Milestones. 2025 Roadmap.



Q12025

Select location and close transaction for POC Farm.



In **2026**, our focus will be on completing a reverse takeover (RTO) and identifying suitable companies for mergers and acquisitions, such as organic waste haulers. By **2027**, we plan to expand our operations to the USA, followed by continued expansion within the USA and into international markets in 2028.





Q2 2025

Begin Construction of farm and source feedstock from local area businesses.



### Q3 2025

Commence operations and design Castings packaging for retail & wholesale channels.

Commence discussions with distributors to secure sales to retailers for 2026 growing season.

Source wholesale castings customers (via direct and outsources sales activities)



### Q4 2025

- Market LP opportunity prospective investors to raise funds for next 5 Farms in strategically identified markets (GTA, Calgary, Vancouver)
- Finalize castings packaging & participate in relevant trade shows to promote product to retail and wholesale customers.

# GreenScience Team.

### Management Team



John Ashbee CEO.

**COO**.

### **Technical Team & Advisory Board**





Engineering.



**Thomas Christiansen** 



Darryl Peck VP, CSR.

Dr. Krishna Kumar, CRC



Dr. Tom Hutchinson **Environmental Science.** 



**Matthew Zafinno** Finance Lead.



Kai Li Technical Lead.



Dr. Mehdi Sharifi, CRC Sustainable Agriculture.