



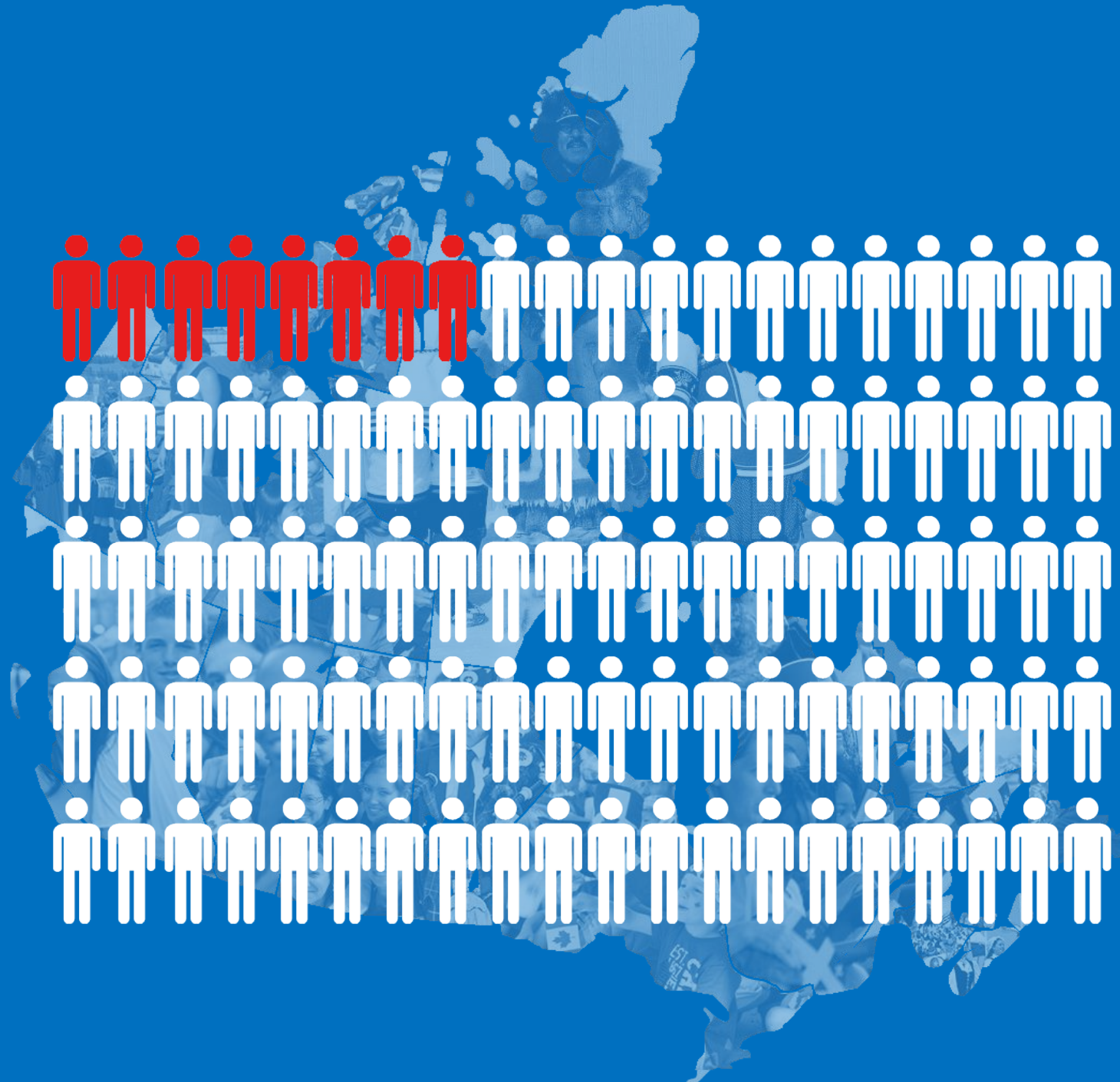
## FOOD IN·SE·CU·RI·TY

*noun*

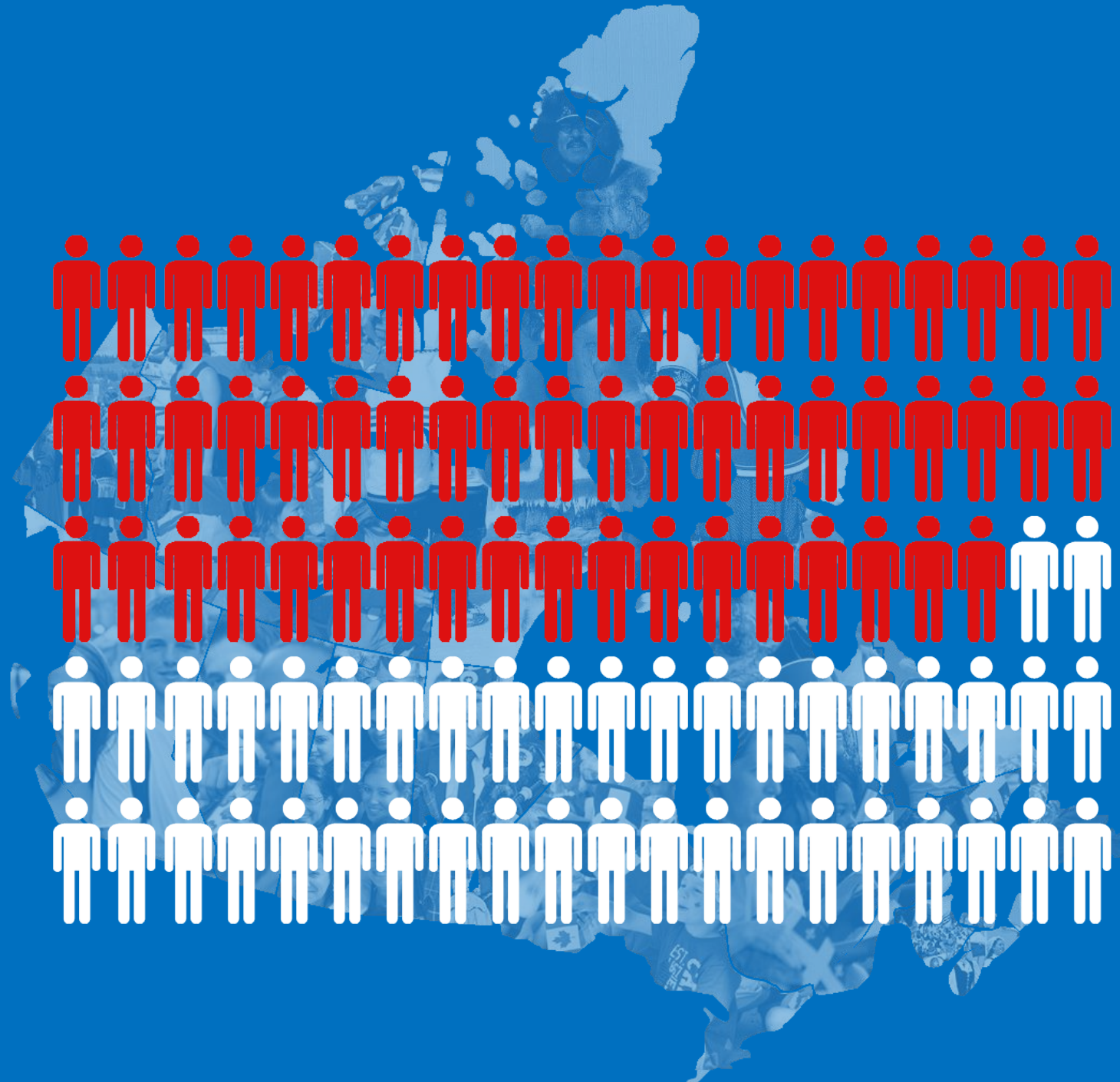
the state of being without reliable access  
to a sufficient quantity of affordable, nutritious food.



CANADA

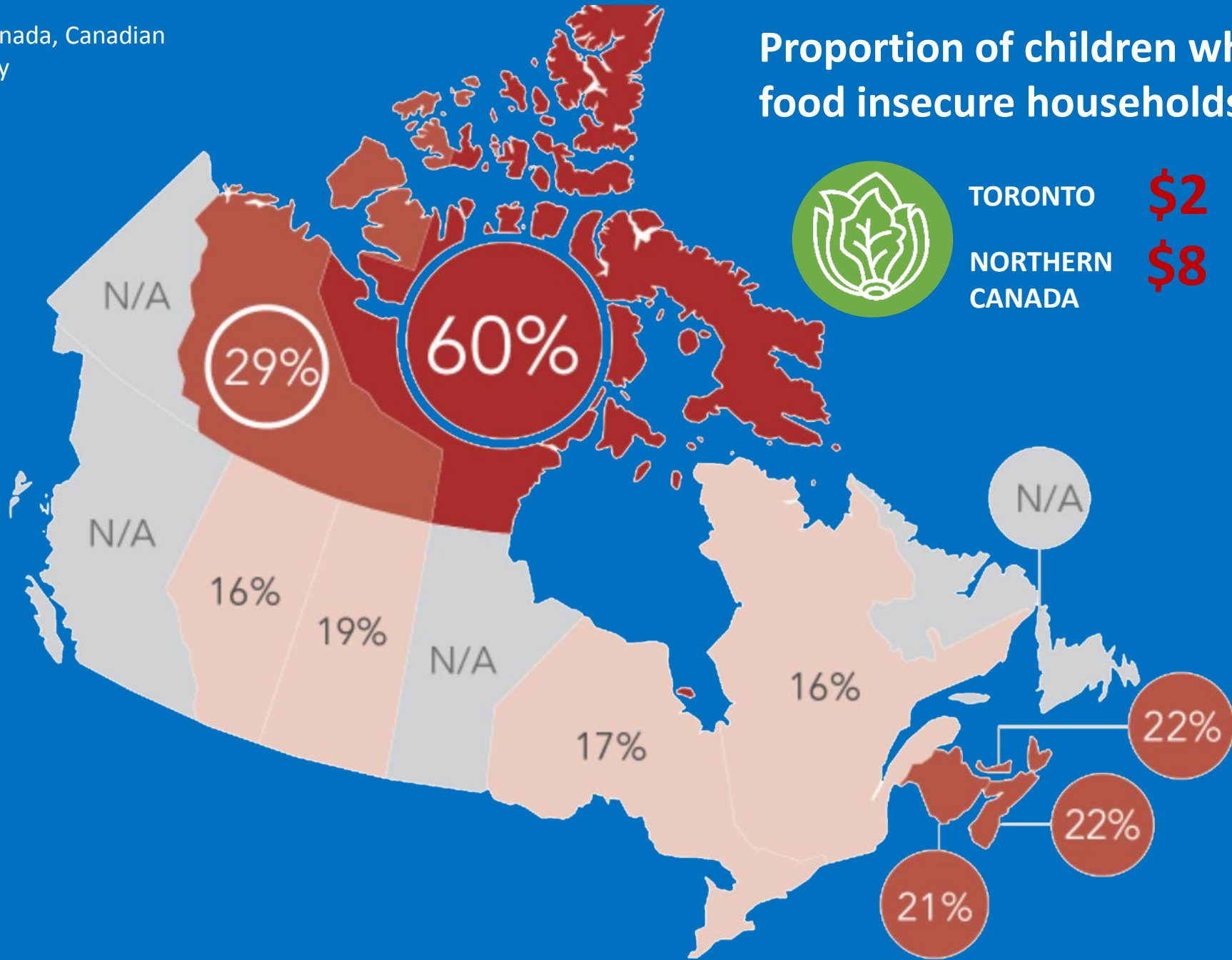


# NUNAVUT



Data Source: Statistics Canada, Canadian Community Health Survey (CCHS), 2013 and 2014.

## Proportion of children who lives in food insecure households



-30 c°

NAUJAAT, NUNAVUT







**77%**  
Unemployment

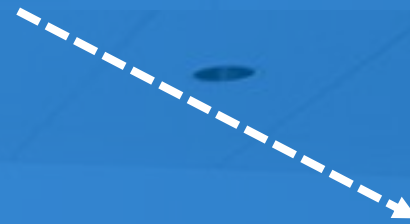
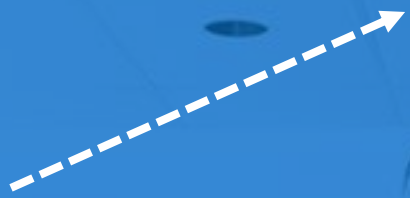


**1/40**  
Graduation  
Rate

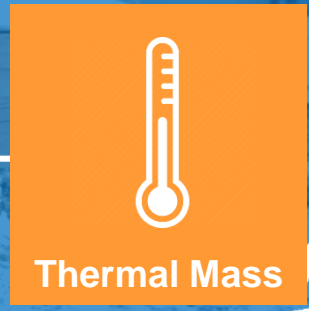
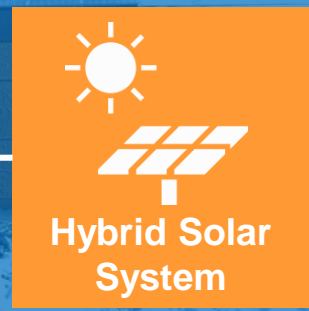
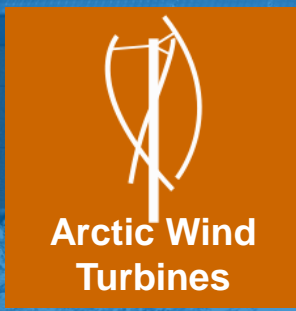
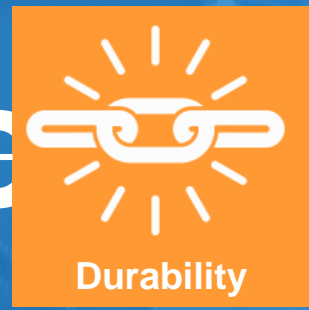
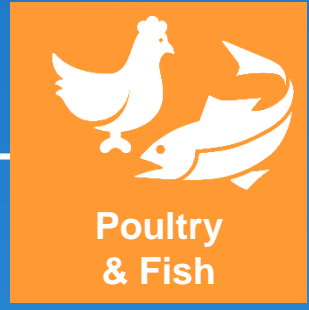
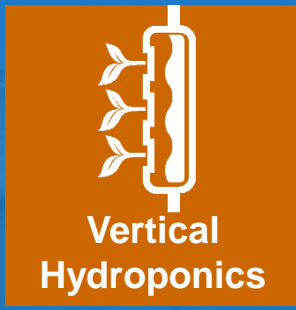
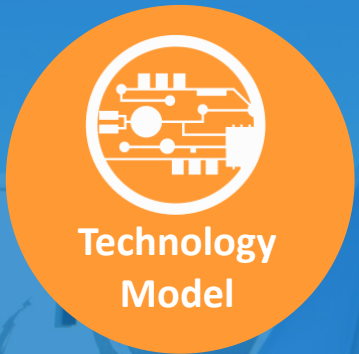


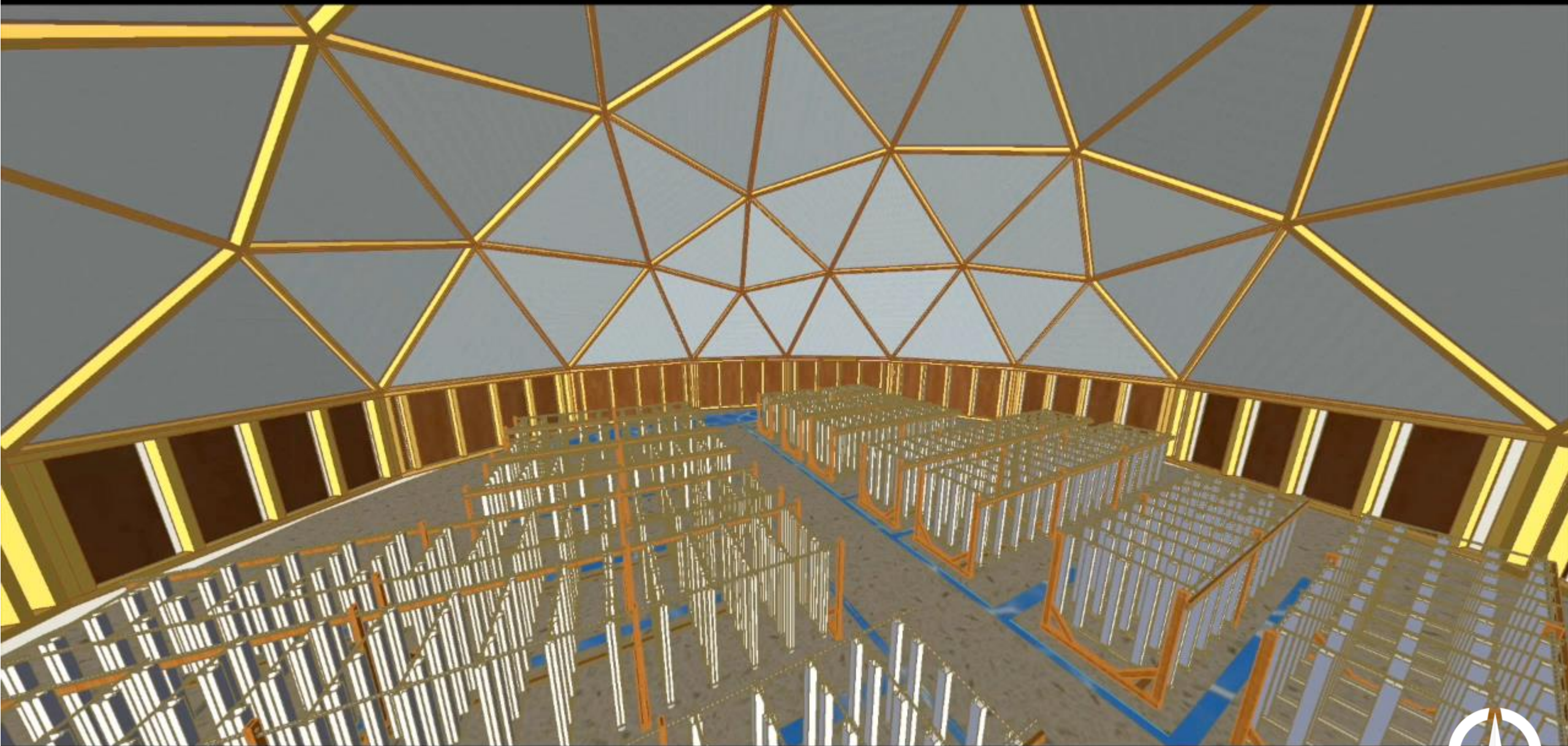
**80%**  
Food Insecure











EXPENSE	AMOUNT	REVENUE	AMOUNT
<b>ORGANIZATION</b>			
2017	\$84,800	GOVERNMENT GRANTS:	\$250,000
2018	\$147,308	CORPORATE GRANTS:	\$275,000
<b>NAUJAAT</b>		UNIVERSITY & ZONE FUNDING:	\$28,000
2017	\$58,725	DONATIONS:	\$30,000
2018	\$136,685	OTHER:	\$22,000
<b>ARVIAT</b>			
2017	\$20,240		
2018	\$226,025		
<b>TOTAL:</b>	<b>\$672,783</b>	<b>TOTAL:</b>	<b>\$605,000</b>

Polar Knowledge  
Canada

Google.org

**LUSH**  
FRESH HANDMADE COSMETICS

**Ryerson  
University**

THE  
WILLIAM H. DONNER  
FOUNDATION, INC.

THE J.W. MCCONNELL  
FAMILY FOUNDATION





IMPLEMENTATION	AMOUNT
<b>CAPITAL</b>	
Greenhouse infrastructure	\$84,800
Hydroponics towers	
Root grow-boxes	
<b>OPERATIONAL</b>	
Water	\$58,725
Local management	
Electricity	
Greenhouse equipment	
<b>TOTAL:</b>	<b>\$672,783</b>



# Community









Sustainability



Horticulture

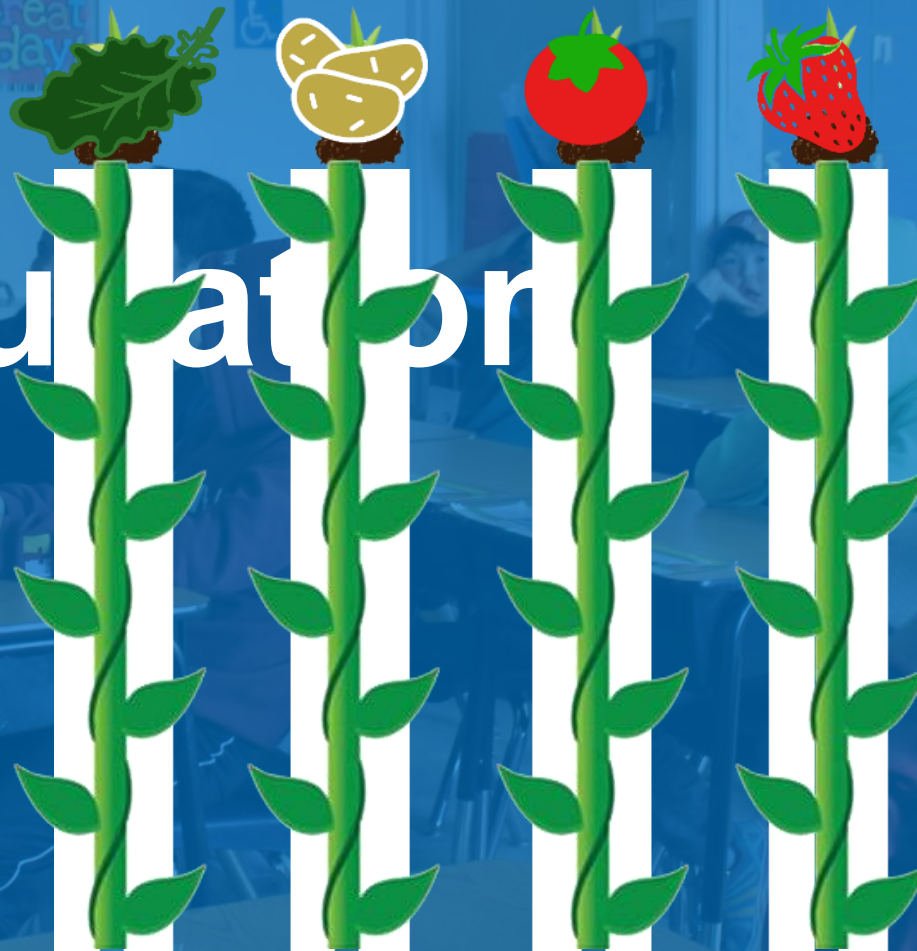


Business



Operations

# Evaluation



FRESH PRODUCE:

- Kale
- Beans
- Tomatoes
- Lettuce
- Peas
- Broccoli
- Cauliflower
- Swiss Shard
- Cucumbers
- Beets
- Radish
- Assorted Herbs





**613**

OF COMMUNITY

**51%-70%**

PRICE REDUCTION





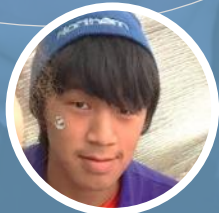


**BUSINESS  
DEVELOPMENT**

**TECHNOLOGY**

**OPERATIONS**

**ADVISORS**





**JOBS**

**2 FT / 3-5 PT**  
+ New Businesses



**20%+**  
Graduation  
Rate



**53%**  
Food security



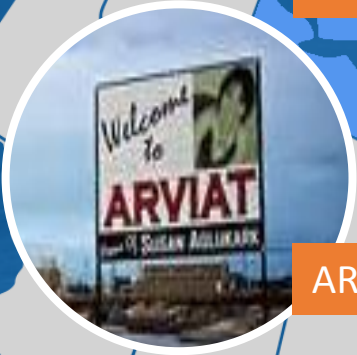




NAUJAAT



QIKIQTARJUAQ



ARVIAT



ATTAWAPISKAT

## 2014 / 2015

- Needs assessment and community approval
- Greenhouse construction in pilot community, Naujaat, Nunavut



## 2016

- First round of co-op students help operate greenhouse
- Training program is launched, greenhouse managers are hired
- Inaugural harvest
- United Nations Sustainability goals designation
- Large media attention (e.g. WE Day presentation with 20,000+ viewers)

## 2017

- Pilot co-op program with 23 students
- Second harvest season begins
- Arctic Farmers data platform launch
- Google Impact Challenge Top 10 Finalists
- Recipients of the POLAR grant
- Arviat expansion





# APPENDIX



POLYCARBONATE GLAZING PANELS

SOLAR-POWERED AIR SYSTEM

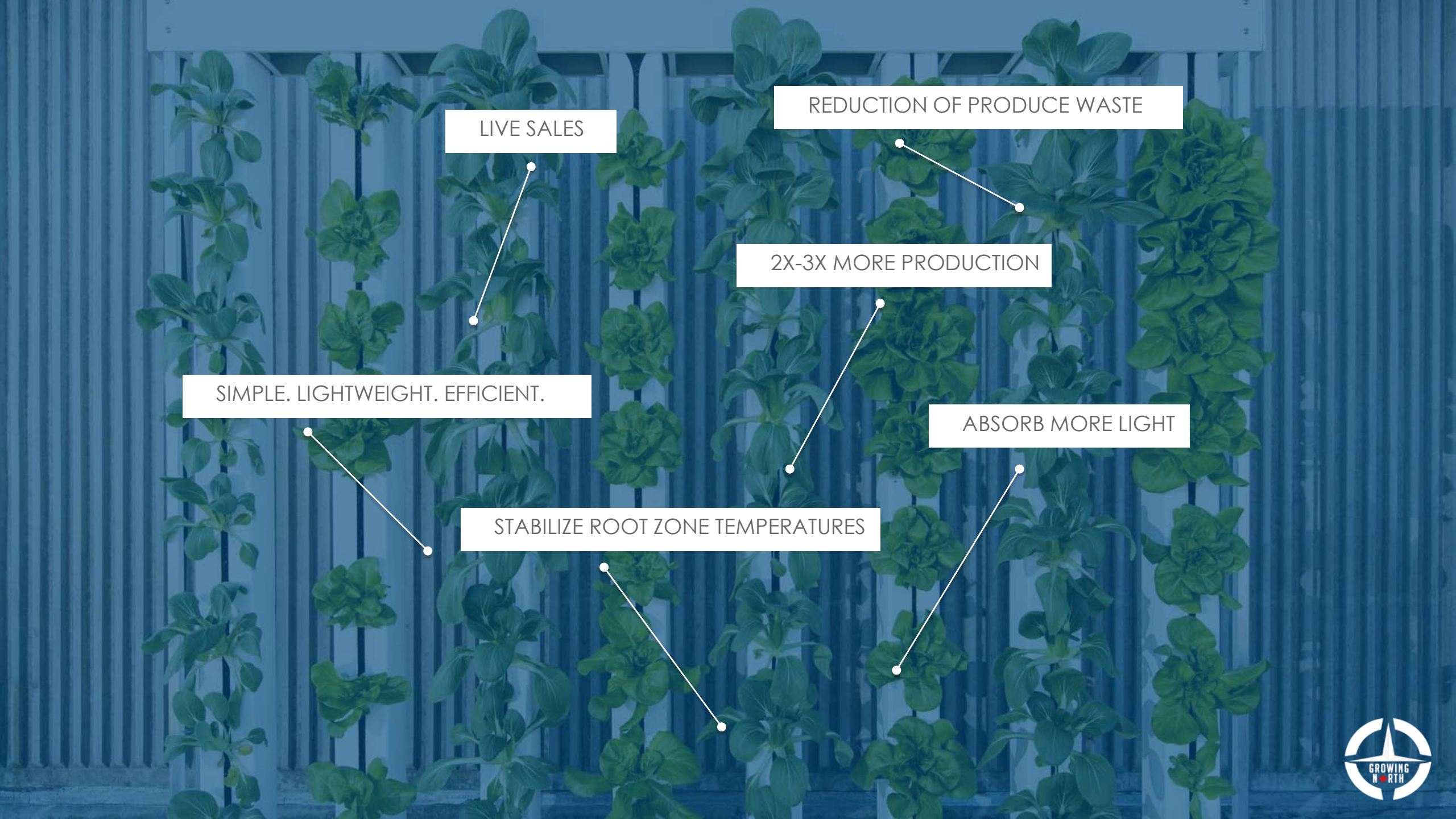
AUTOMATIC VENTS

GEODESIC SHAPE

NORTH WALL INSULATION

ALL WEATHER WOOD INSULATED FOUNDATION





LIVE SALES

REDUCTION OF PRODUCE WASTE

2X-3X MORE PRODUCTION

SIMPLE. LIGHTWEIGHT. EFFICIENT.

ABSORB MORE LIGHT

STABILIZE ROOT ZONE TEMPERATURES







### **Output Capacity:**

13,250lb of produce per year  
(56% more than our closest competitor)



### **Location Scope:**

Focused on Northern Canada with future expansion into isolated communities across Canada.



PROJECT  
SUCSEED™

### **Growing Method:**

Hybrid system of hydroponics and soil based beds to meet community needs and demands.



### **Cost:**

At roughly \$80K per system, capital costs are 25% less than our closest competitor.



### **Additional Community Programming:**

More than just food security, we aim to empower communities to increase their own quality of living.



# Arctic Wind Turbines



# Arctic Solar Panels

