

# SMART ICE

**SmartICE:** A monitoring & information service for and by communities to help them adapt to changing ice conditions



**Trevor Bell**  
Founder/Director

**Andrew Arreak**  
Nunavut Operations Lead

ARCTIC  
INSPIRATION PRIZE



  
MOMENTUM  
FOR CHANGE

# Living with climate change

A photograph showing two individuals in winter gear on a snowmobile in a vast, snowy, and icy landscape. The snowmobile is black with a clear windshield and a headlight. One person is standing and holding a green rope, while the other is seated on the snowmobile. The background features snow-covered mountains under a cloudy sky.

Empowering communities to adapt to unpredictable ice

**SMAR ICE**

ᑭᓐᑎᓕᑦᑲ POND INLET

*Sikumiumut*

**SMAR ICE**  
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Ikaarvik:  
Barriers to Bridges

Directly involves community in all operations

# SMART ICE



Integrates Indigenous knowledge about ice

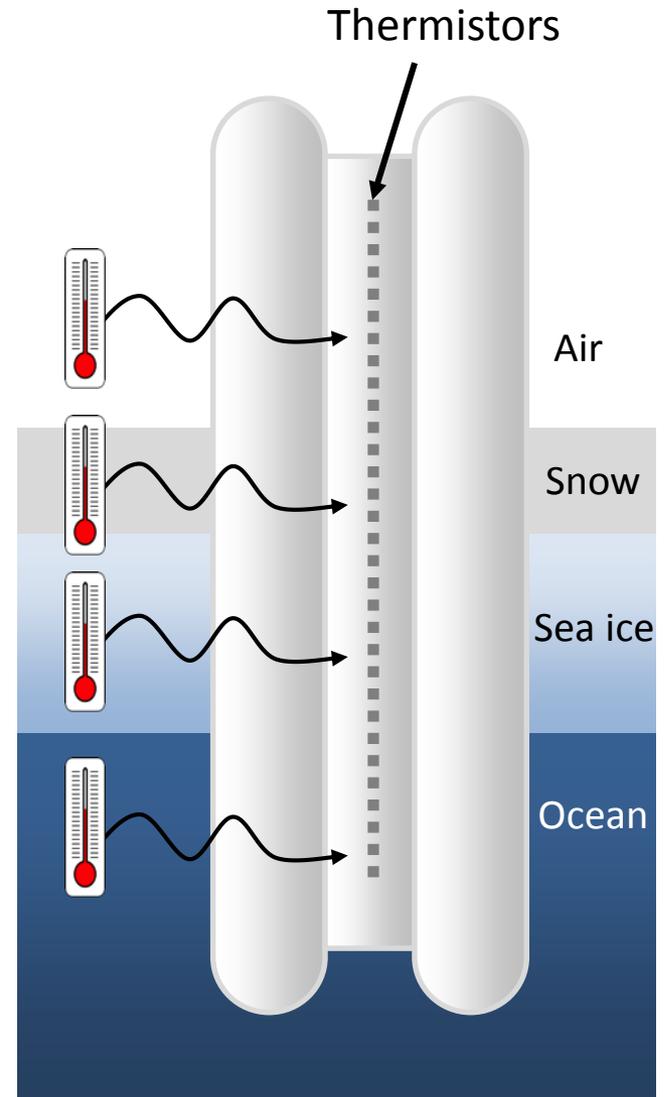
# SMART ICE

Technological Innovation



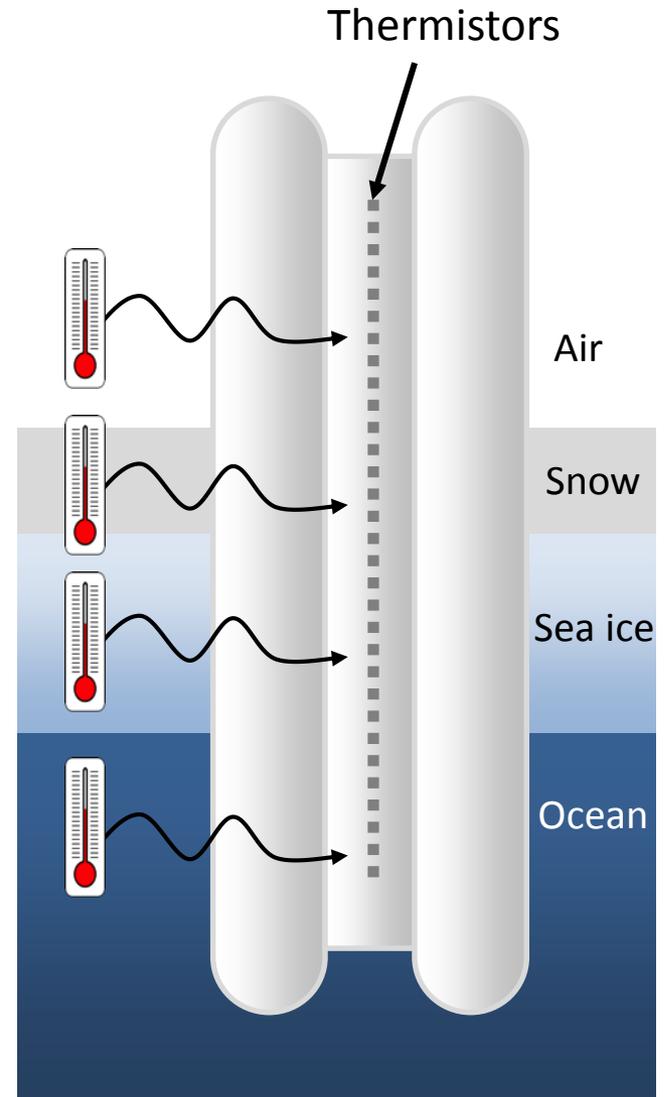
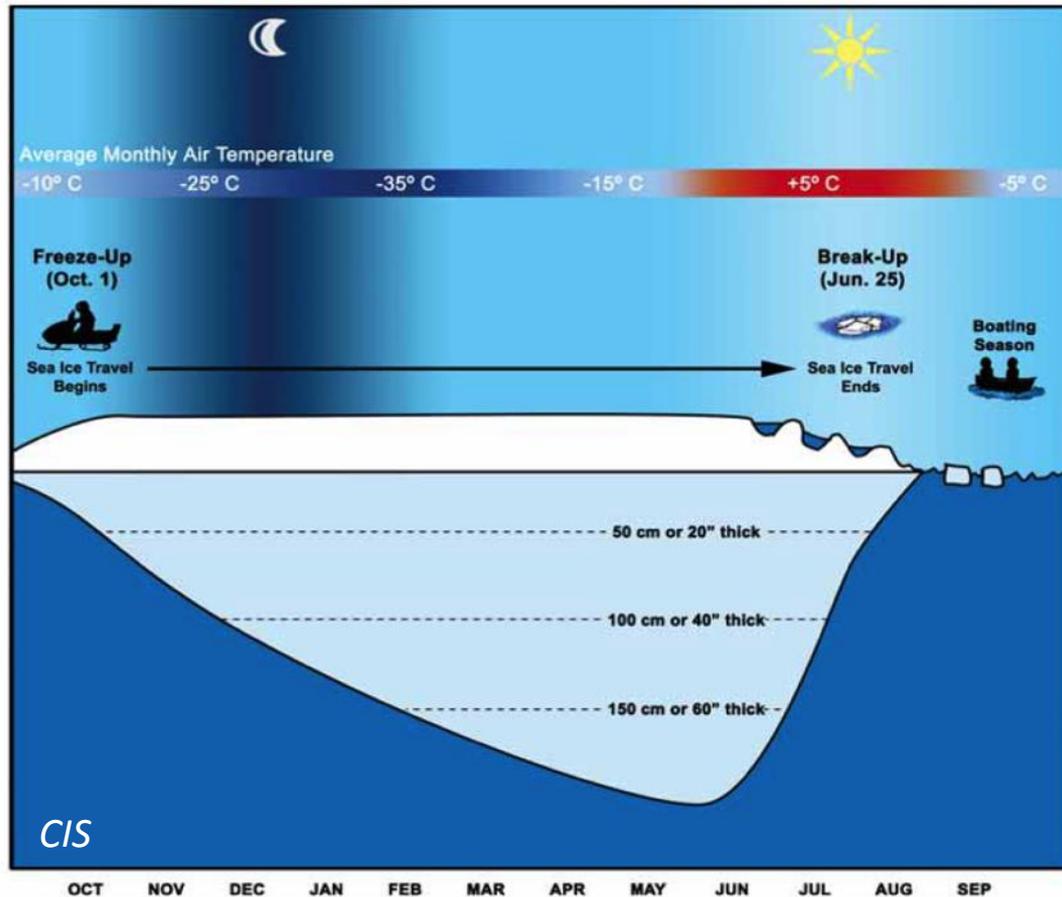
# SmartBUOY

sea-ice thickness sensor



# SmartBUOY

Stationary sea-ice thickness sensor



SmartQAMUTIK



Snow

Sea ice

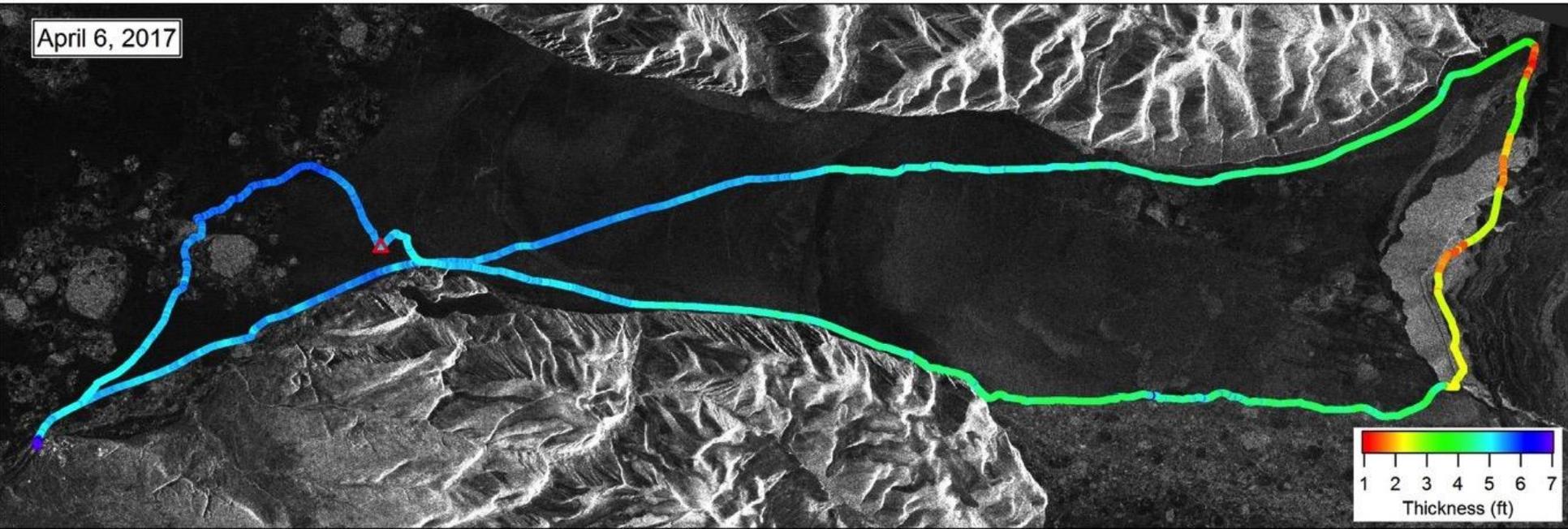
Ocean



# Communicating SmartICE information



April 6, 2017

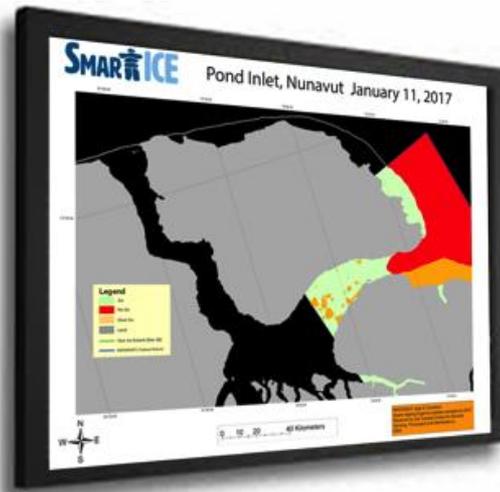
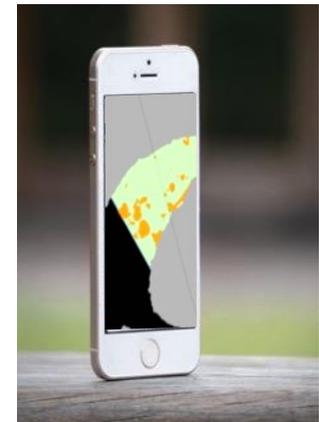




Empowering communities to adapt to unpredictable ice



# Communicating SmartICE information



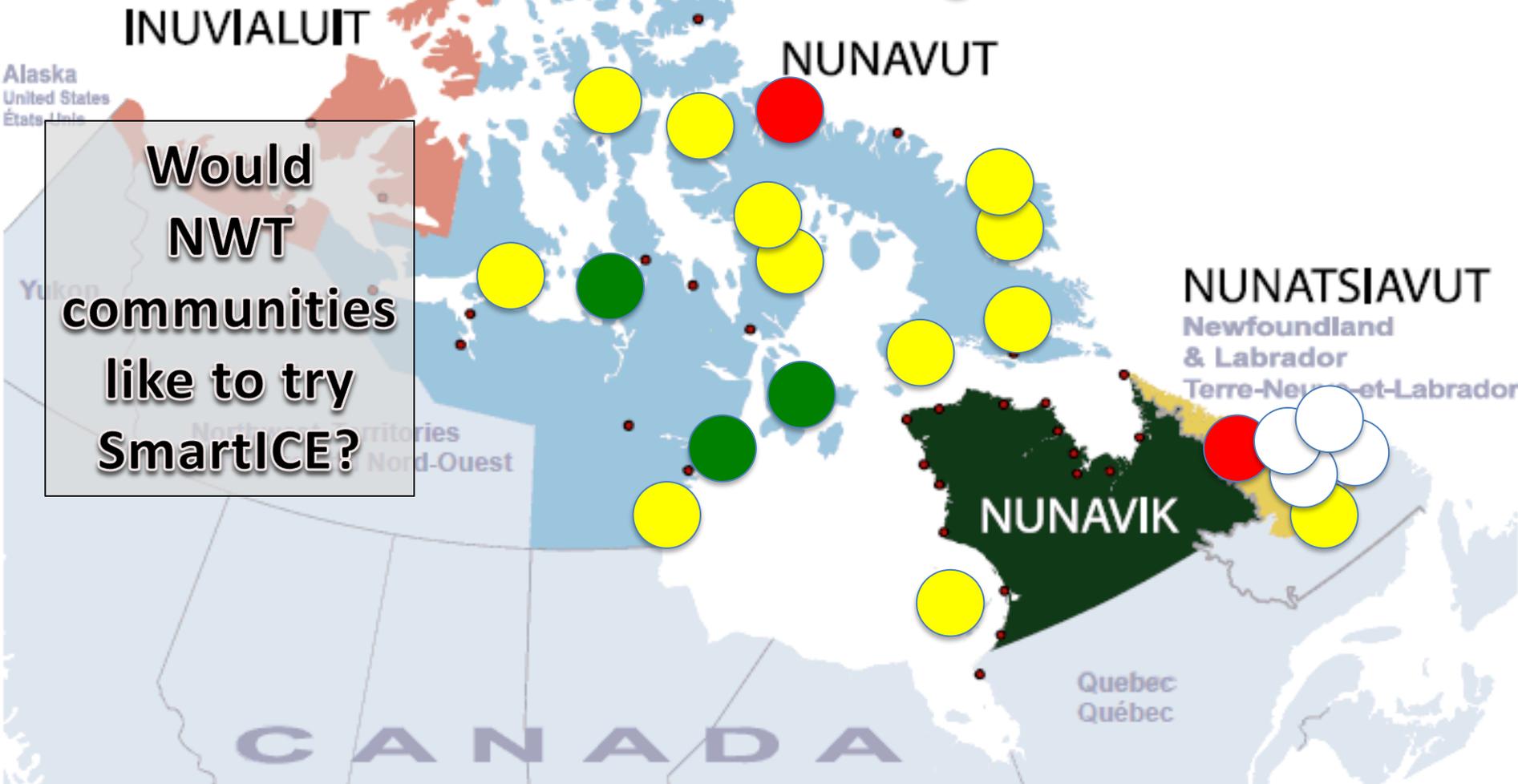
# From community partnership to social enterprise



Maximizing social impact  
Creating positive community change

# SMARTICE Communities

- Pilot communities
- Expansion communities
- Pending communities
- Requested communities



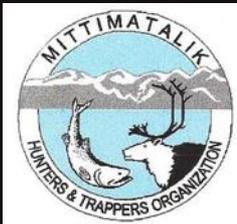
Would  
NWT  
communities  
like to try  
SmartICE?

## CURRENT SMARTICE POSITIONS

**Nunavut Operations Lead (Qikiqtaaluk North)**  
**Nunavut Operations Lead (Qikiqtaaluk South)**  
**Nunavut Operations Lead (Kivalliq)**  
**Community Capacity and Support**  
**Director, Business and Strategic Development**  
**Technology Production Centre Manager**  
**Technology Production Centre Support**



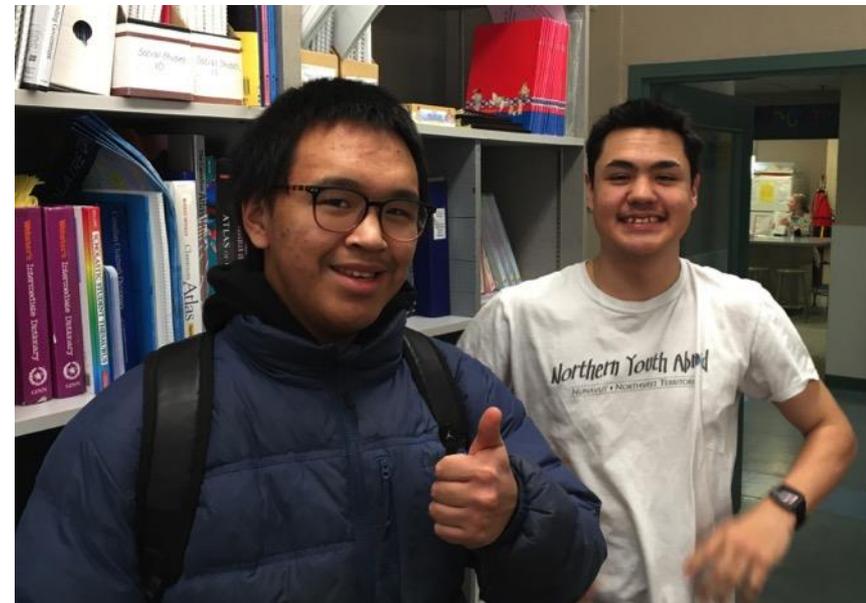
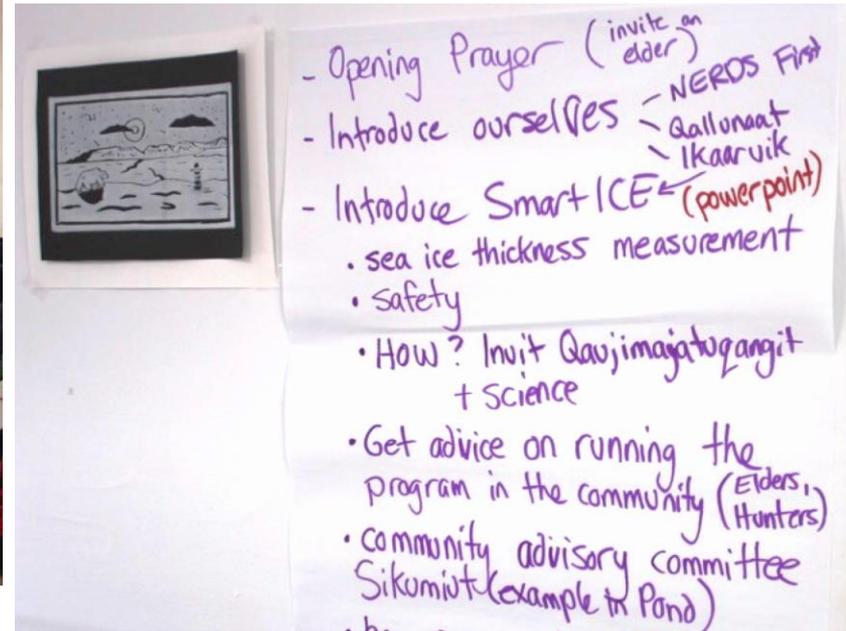
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BAFFIN FISHERIES



# SmartICE Community Operators



# SmartICE Youth Workshops



# SmartICE Ice Terminology Workshops



# SMAR ICE

Social Innovation

SMAR  ICE  
Technology  
Production Centre

*From prototypes to products*





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