Smark (E

a sea-ice monitoring and information service for coastal communities and industries



Smark ICE



Stuck in the Slush Living with climate variability & change

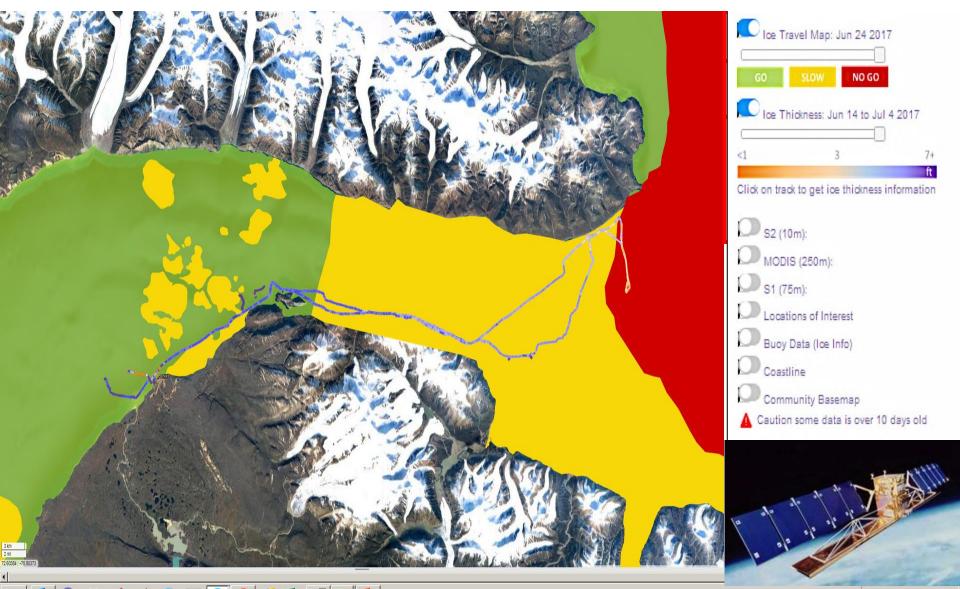
Responds to community priorities

Inuit knowledge of traditional travel routes less reliable

Directly involves Inuit in all operations Integrates Inuit Knowledge about sea ice

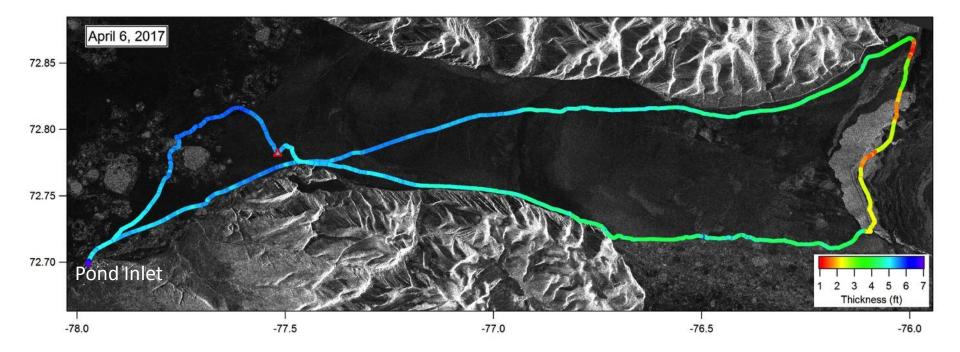
Sikumiut – our community user group

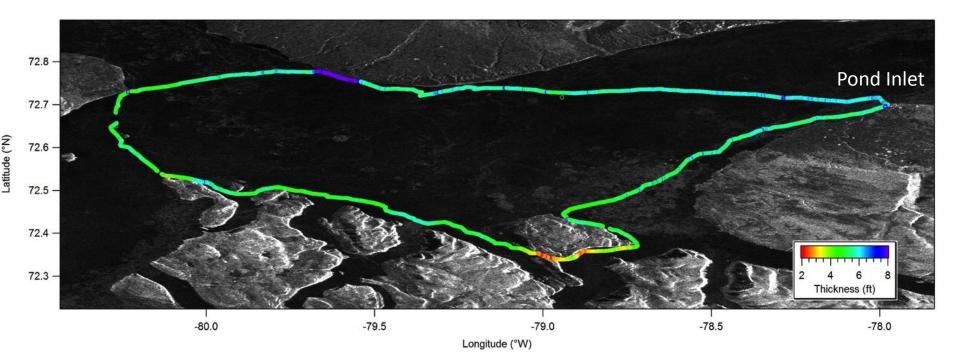
Combining local knowledge and satellite technology to produce Inuit-relevant sea-ice hazard maps



SmartQAMUTIK Qamutik-mounted mobile sensor to continuously record sea ice thickness







SmartBUOY

Network of low-cost, recoverable, stationary sea-ice thickness sensors









From feasibility to sustainability



Building a sustainable social enterprise

Maintaining safe ice passage under unpredictable conditions ...



... using local expertise and knowledge



Winter Fisheries



Floe Edge Tourism







Winter shipping and sealift



SmartICE services can:

- Support route planning
- Monitor refreezing of ship track
- Inspect ship track crossings
- Monitor ice break-up

Canadian Armed Forces & Rangers Expeditions and Training Exercises



Search and Rescue







Freshwater ice monitoring

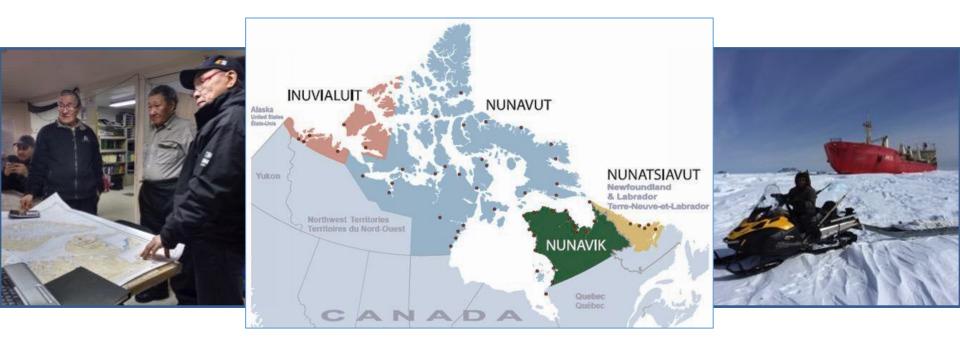








From feasibility to sustainability



Building a sustainable social enterprise Promoting northern entrepreneurship & innovation Developing a knowledge economy in communities



Sustainable Communities Initiative SakKijânginnatuk Nunalik



Ikaarvik: *Barriers to Bridges*

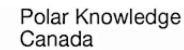
Thank you 34° 2 F

Trevor Bell tbell@mun.ca

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Aboriginal Affairs and Northern Development Canada ARCTIC INSPIRATION PRIZE

RDC

