

Climate Change Adaptation



March 29, 2011

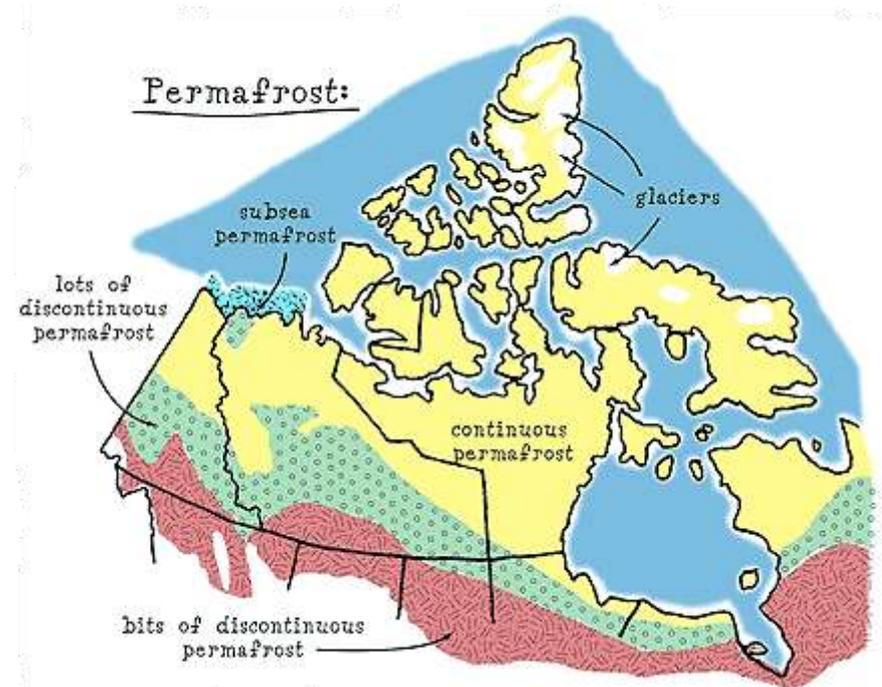
 Review of the Climate Change Adaptation Project

 Gap Analysis

 Call to Action

 Other Flagged Climate Change Issues

 Questions



State of Knowledge Regarding Permafrost Degradation and Community Infrastructure in the NWT

Funded by INAC Adaptation Fund
until March 2011



- Appointed by the NWTAC Board

Chair: Gordon Van Tighem

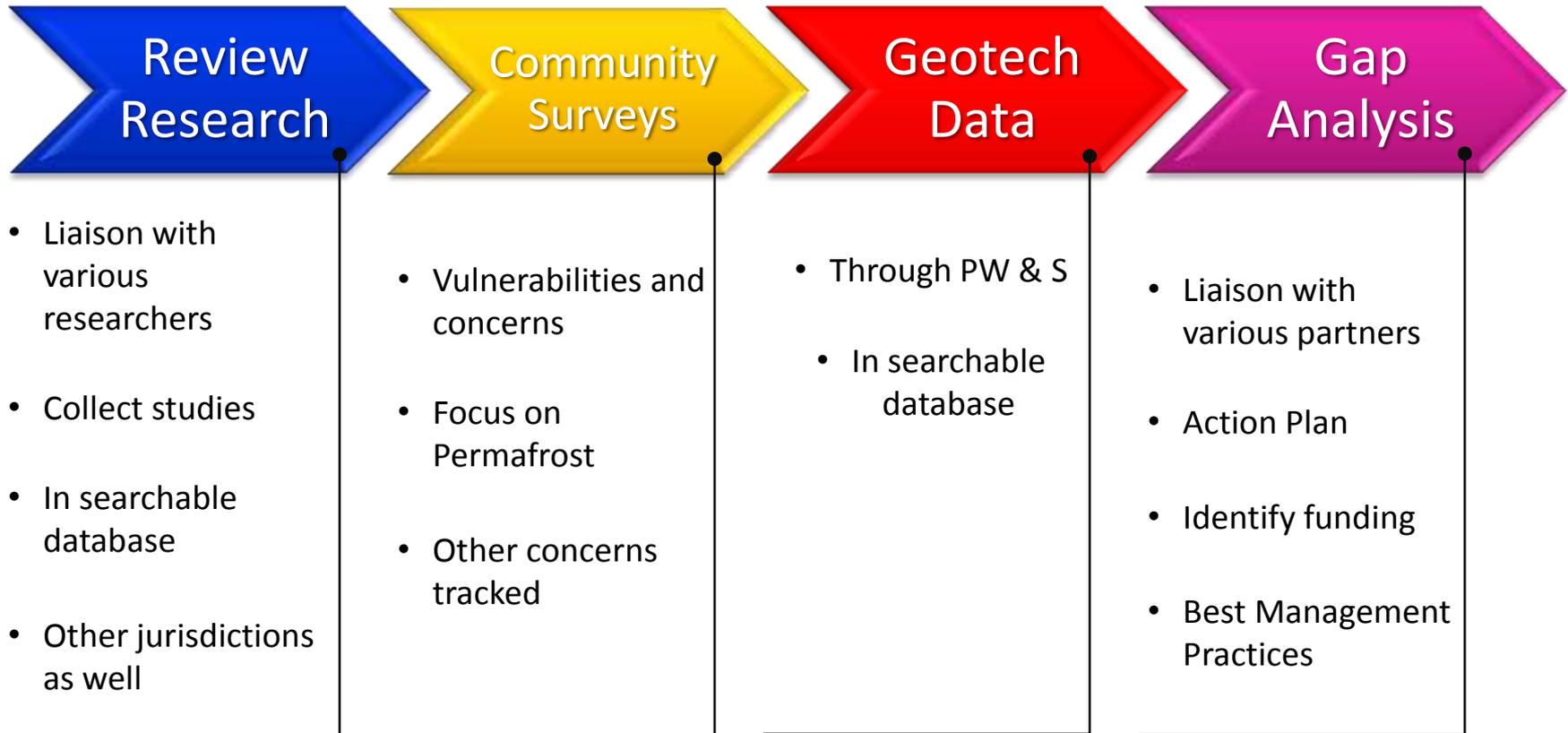
Elected Officials: Andrew Cassidy, Councillor, Hay River
Joseph Lalonde, Councillor, Enterprise

Administrative Representatives: Margaret Ireland, Jean Marie River First Nation
Lena Egotak, SAO Ulukhaktok

Technical Representatives: Climate Change Group Rep, ENR, GNWT
Infrastructure Rep PW&S, GNWT
NWTAC Yvette Gonzalez, CEO
INAC Adaptation Yves Theriault (Ex-Officio)

Project Elements

Insert your subtitle here if needed





- Although Adaptation Planning must be done, all municipal decision making must have a care to climate change
- No climate change modeling done for the North
- Many of the research papers must be purchased
- No clearinghouse of studies / guides
- Lack of Continuity of funding



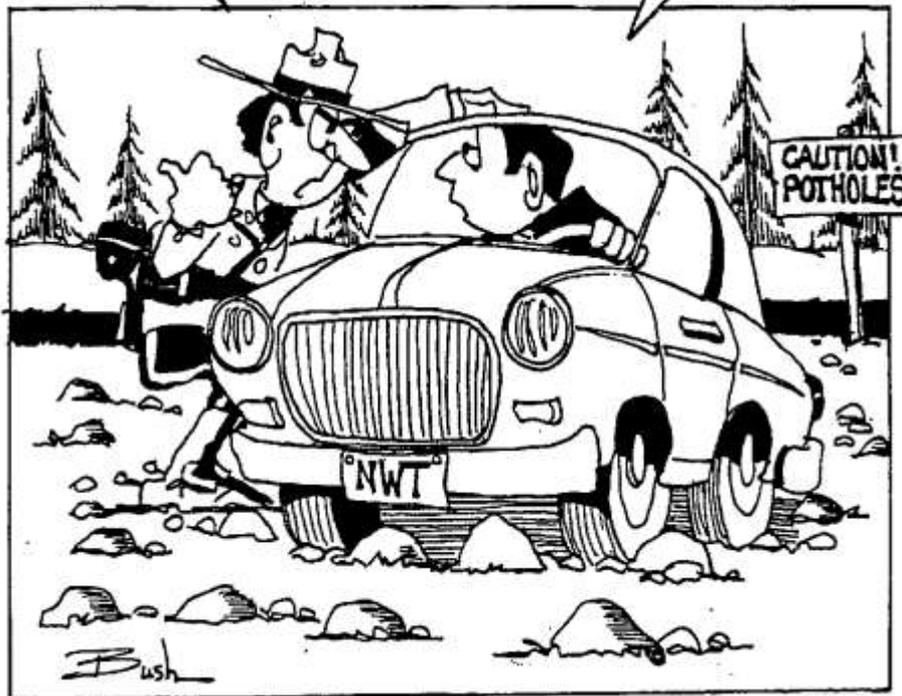
- Considerable Academic work has been done on permafrost degradation but only a few on infrastructure impacts
- Few permafrost monitoring stations in communities
- Results of research not getting communicated back to communities
- Many of the Adaptation Plans have little focus on Infrastructure



- No comprehensive examination of the costs of adaptation (or not adapting)
- Little involvement of northern infrastructure experts to date
- No studies yet that focus on solutions
- No guidelines that deal with existing infrastructure
- Lack of University means scattered knowledge base

ANY PARTICULAR REASON YOU'RE DRIVING IN THE DITCH INSTEAD OF ON THE ROAD?

FEWER BUMPS.



CALL TO ACTION



- Need to look at all municipal decision making with a “Climate Change Lens”
- need to develop toolkit to assist communities
- Need Northern Codes and Standards to deal with adaptation
- Guidelines for existing buildings (CSA)
- Need better “better bang for buck” with research \$\$\$
- Need to be pro-active - cheaper

CALL TO ACTION



- Need to work with scientists and consultants to establish in-community monitoring programs (ie/ on new buildings)
- Need to work with Aurora Research Institute to ensure results are communicated
- Community name(s) must be part of the list of keywords
- Need to be work with our research partners to ensure the agenda reflects the needs of communities

CALL TO ACTION



- Hosting of Webinars and other communication tools
- Recommend establishment of a Community of Practice Website to foster networking
- Need to work with Partners to complete a business analysis of the costs of adaptation for all public infrastructure
- Need to lobby for funding together

CALL TO ACTION



- Find ways to foster resident northern expertise
- Develop toolkit to educate staff, Council and General Public
- Encourage development of climate change models for each community
- Need to work with Climate Change Partners

Climate Change

Other Flagged Issues



- Coastal Erosion
- Storm frequency and intensity
- Increased fire risk
- Shorter winter road seasons
- Other issues for buildings – Snow loads, wind loads etc.

Climate Change

Other Flagged Issues



- Access onto Land
- Flooding
- Water Quality and Quantity
- Waste Containment
- Wildlife



- Project Funding – INAC Adaptation
- Forum Support – INAC, GNWT
- Expertise, Encouragement and Support

QUESTIONS

QUESTIONS



Do not hesitate to contact me if you have any concerns with Climate Change, infrastructure or of a general nature!!!!

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