

VISUAL MINUTES for the  
2018 CLIMATE CHANGE FORUM AND CHARRETTE

All drawings are copyright of Alison McCreesh

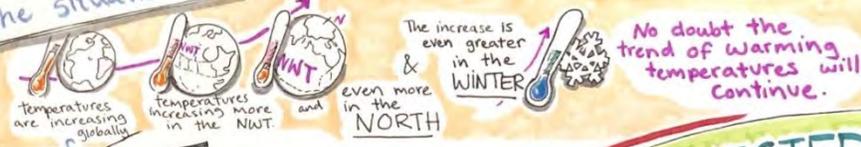
They were produced as  
visual or graphic minutes of the  
2018 Climate Change Forum and Charette  
as hosted by the  
NWT Association of Communities.

This initiative is offered through the Municipalities for  
Climate Innovation Program which is delivered by the  
Federation of Canadian Municipalities and funded by the  
Government of Canada.



# 2018 Climate Change Forum & Charrette SUMMARY

The situation is:



Some of the IMPACTS are:



ALL IS CONNECTED

Some current community initiatives

- Youth Camps
- Youth - TK
- Recycling
- Community gardens
- Planting trees
- Smart Ice
- Nunamin Ilihakvia
- Removing hazardous waste by barge

We must: BUILD MITIGATE RESILIENCE PLAN ADAPT

with the help of:

PREDICTIONS SCIENCE SHIPS CAPACITY INNOVATION TO DO THIS, WE NEED: RESOURCES



Imagine, we must. Imagine we can do things differently. Imagine we can change the course.

SOME IDEAS FOR THE FUTURE



Some potential partnerships



Meeting Summary



2018 Climate Change Forum and Charrette

© Alison McCrash 2018

SOME NOTES FROM PRESENTATION BY SHEILA WATT-CLOUTIER

Elsewhere, when they think of climate change and the north



But they forget that there are **PEOPLE**



It is important to put a face on the North



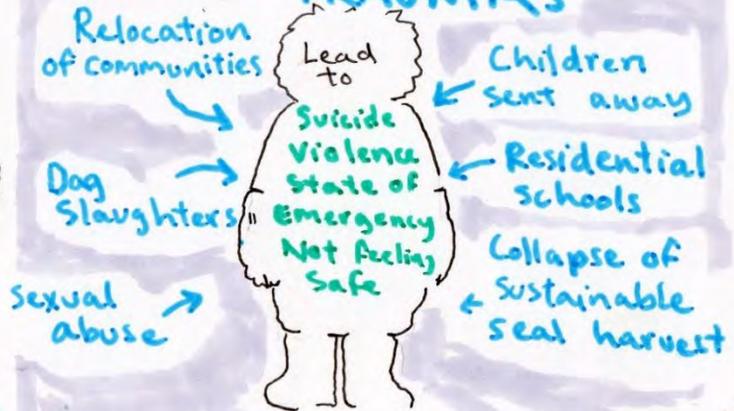
That people understand this

the Inuit are

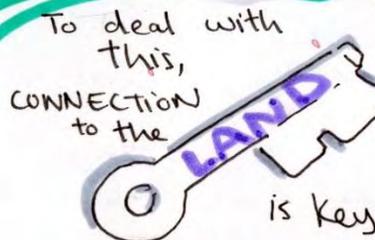


THIS IS WHO WE ARE

The historical **TRAUMAS**



THIS IS NOT WHO WE ARE



# TIME SPENT ON THE LAND

Develops: Traditional Skills → Skills that are transferable to the modern world

Hunting, Patience, Character building, Dealing with stressors, Lifeskills, Not being impulsive

Sound judgement, Resilience, managing Risks

Hunting culture is Holistic

Because of CLIMATE CHANGE, access to the land is limited.



Climate Change is a human rights issue

Everything is connected



Everything matters

Everything is impacted when climate changes

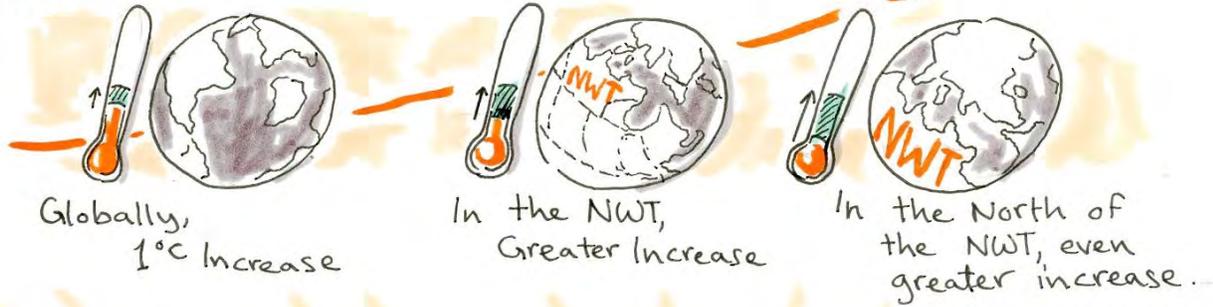


Alison McCreesh . P. 2 of 2

# Climate Change Trending

Speaker: Brian Sieben

## TRENDS:



Increase most significant in the **NORTH**,  
and even more  
in the **WINTER**.

## Some Impacts:

Coastal erosion	Permafrost thaw	Thinner ice
MOOSE VS CARIBOU Impacts habitat Plateau Shrinkage	SMOKE Active Fires	SNOW Warmer, wetter, heavier snow.
Opportunistic Species	Winter overland flow	Diesel over dams Low water levels

**FUTURE:** Whether the **HIGH EMISSION PATH** (global) is chosen, or the **LOW EMISSION PATH**, the **NORTH** will still have an increase to reckon with.

# CASE STUDIES



# Gameti

## Some initiatives

Walk or bike to work once a week



to reduce

Green House Gas Emissions

## Organic Farming.



A lot of Potatoes!  
Butter  
Eggs



♥ Positive community impact. ♥

## Keep Lake clean



- for trad. uses + for tourism.

## Reduce use of water bottles



## Construct housing



## Plant trees



# Case Studies

## Jean Marie River

TTHETS 'EHK' EDELI

ELDERS + Council → Find more info about what's going on with the environment.

Many studies exist,

but we need our own from our own Dene perspective

So we did interviews.

Used Maps a lot, map studies.

ex.

OBSERVATIONS, such as

may  
Wat

vs.

Water level  
Changes

Access road

Get Youth involved in climate change study:

GPS Readings

On the land.

Fishing out big fish with mercury

Youth Elder Bringing generations Together

Studies, priorities:

• Permafrost  
- for infrastructure planning

• Foodsecurity  
- No grocery store

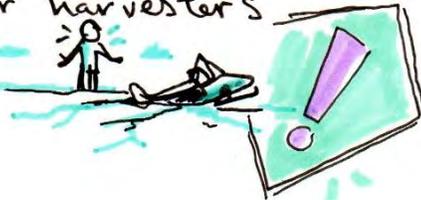
Case study

# Climate Change Adaptation in Kakisa.

Some changes : Ice not freezing  
Land not freezing  
Seeing new wildlife  
Different snow.



Making it unsafe for harvesters



## Some initiatives:

- Involve Youth Youth Camps Work with Schools

- Get on the land, get stories from elders, combine with science learning



- Monitor the land

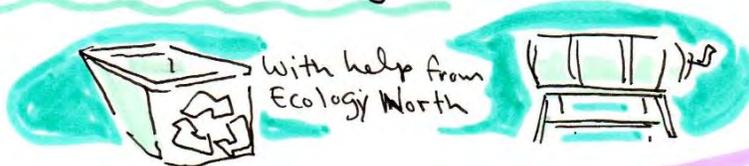
- Document changes

Using technology of smart phones



Using old pictures to tell stories

- Recycling + Composting project



- Community Gardens



Always involve Youth + Community!

# SMART ICE

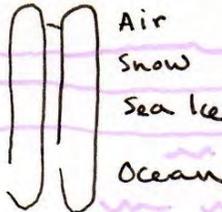
On ice monitoring combined with Tradition Knowledge

Because of Climate Change,  
Dangers on ice due to unpredictability.



Using technology to monitor ice.

ex: Smart Buoy  
Stationary Sea-ice  
thickness sensor.



## Social enterprise

- Communities are owners of the enterprise.
- Positions to be held by Inuit. People trained locally to work locally.
- Involve youth
- Use traditional terminology
- Produce equipment in the North

# ISSUE TABLES



Issue table:

# Agriculture & Food Security

Buying food, especially meat is \$\$\$ - Especially for Elders & Students  
Food has to come in from outside, when roads are blocked, it's a big problem.

**SUPPORT TRADITIONAL FOOD SYSTEMS**

Concerns about health of animals.  
(ex: mercury in fish)

Current programs too restrictive.

It must be Community org. driven.

**DEVELOP AGRICULTURE**

Yellowknife/Smith/etc. used to grow food, years ago. Now warmer, we could grow more. But we'll never produce enough.

Good for Mental Health & Community

**IDEAS**

Community Gardens

Learning to grow food, And PRESERVE food.

Donate to food banks

**Moving Forward**

restrictive

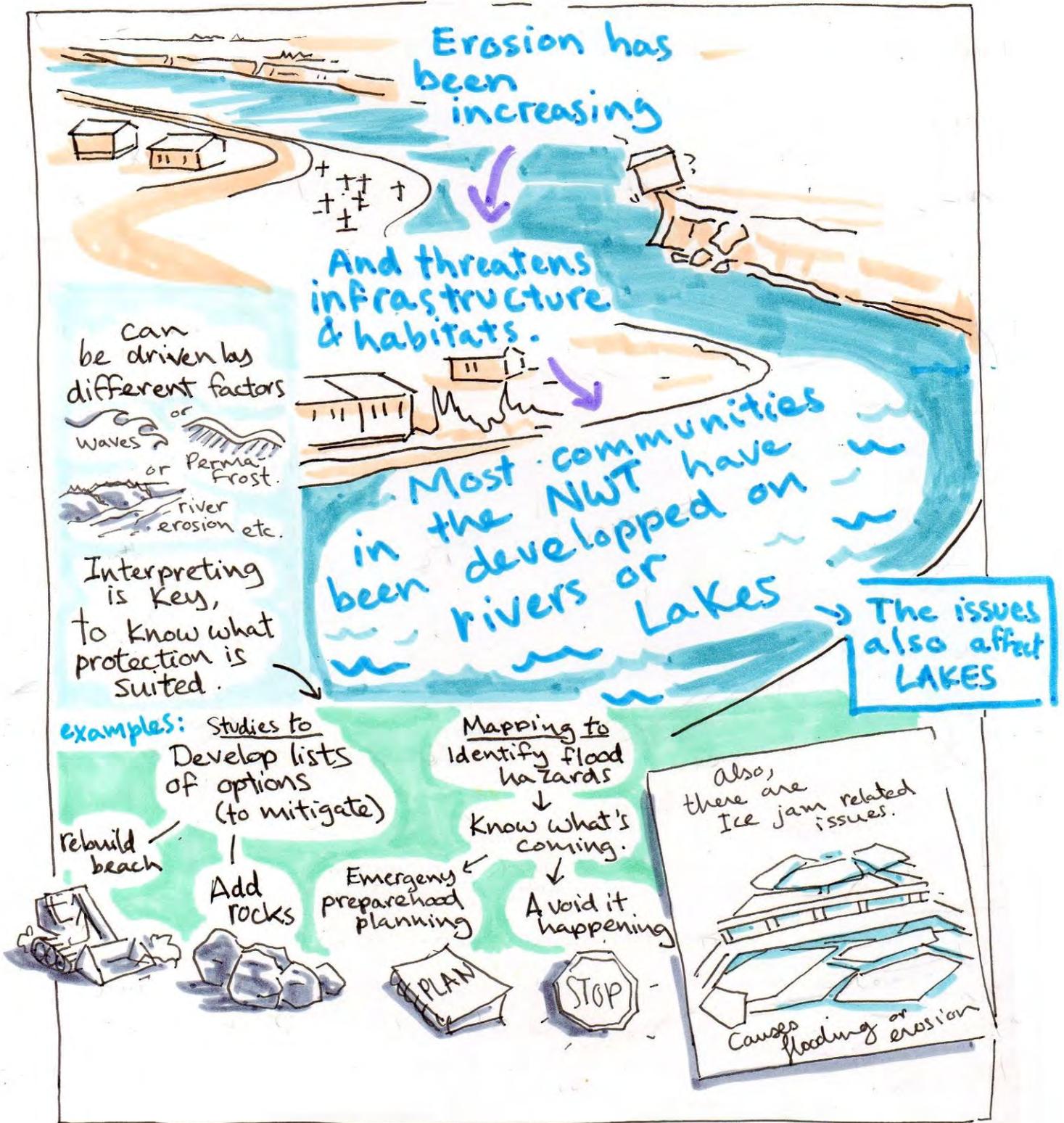
Lack of continuity

Openness to agriculture there didn't use to be.

SO MANY PROGRAMS it is overwhelming to access funding.

# Costal & River Erosion

Issue table:

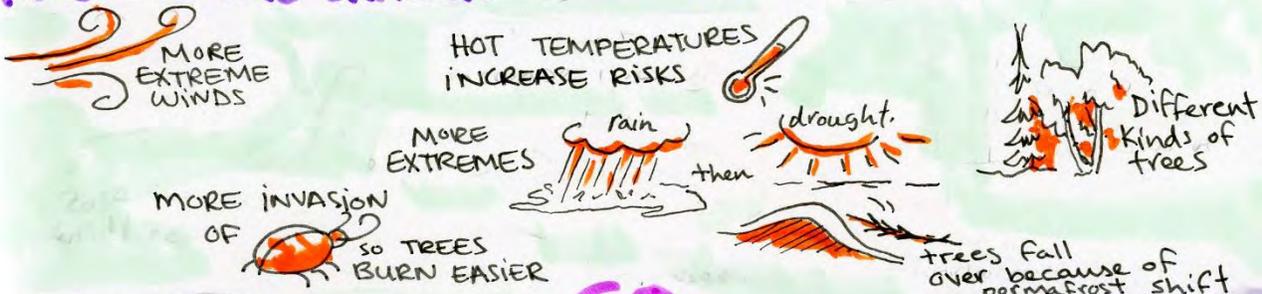


# Issue Table : Human Health & Well Being



Issue table : Wild Fires

HOW CLIMATE CHANGE INCREASING FIRES



Some CONTEXT

- There used to be many voluntary burns.
- Now though, very dense forest, so more fuel (🌲)
- Fire is part of health boreal forest, but want to protect communities + infrastructure.

SO there will be

WILDFIRES

we must FIRE SMART mitigate risks COMMUNITIES

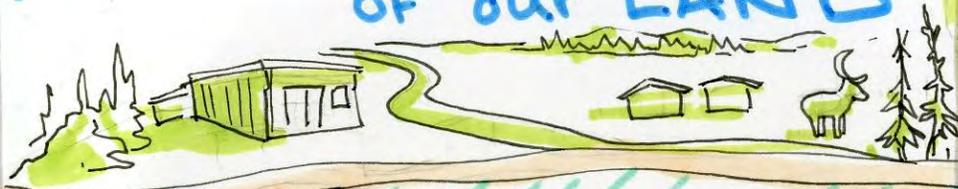
SOME CHALLENGES

- You want to fire-smart, but maybe you need these trees to limit erosion.
- Enormous territory, little resources for firefighting.
- It could help to burn on purpose around communities in the spring, but people aren't too keen.



Issue Table: Permafrost

PERMAFROST is the foundation of our LAND



When PERMAFROST SHIFTS



LANDSCAPE CHANGES



IMPACTS COMMUNITIES & LAND

Examples of Changes (from Fort Macpherson)

Erosion of the bank getting closer



Animals not following regular migration paths



New animals sighted



Ice not frozen enough so missing fishing



Land softer



# REGIONAL CHARRETTE



# INUVIK BEAUFORT DELTA

2018 CLIMATE CHANGE FORUM & CHARRETTE

Priority: **Transportation & Access to the land**

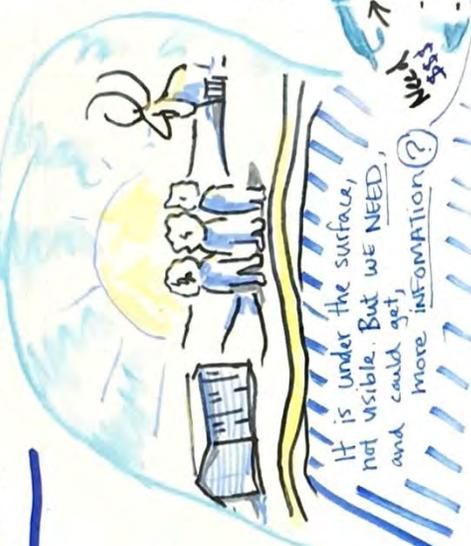


Priority: **Economic Development**

Priority: **Human Health**

Priority: **PERMAFROST**

- Shifts cause damage to infrastructure
- Impacts communities by affecting access to the land.
- Impacts on water quality. etc



We need to understand permafrost

**Pulling together** (general partnerships)

Gov. Parks Canada  
Communities Together IRC  
Researchers  
Cruise ships(?) GTC

We cannot stop the thaw of permafrost.

**Challenges:**

- Impacts:
- roads
  - Airstrips
  - Buildings
  - Housing: can't build here
  - Wildlife
  - river/water quality

**Ideas:**

- Standards
- tracking records
- Construction
- Maintenance
- recording, taking observations
- Capacity
- Education
- Contractors
- People to monitor



# DEHCHO

2018 CLIMATE CHANGE FORUM & CHARRETTE

Olson McCreech 2018

## Challenges

Isolated Small Communities

Geothermal hard to access



\$\$\$ High cost -> transition -> maximum

## Ideas/Opportunities

Natural Geothermal



New Woodstoves  
funding/research/new technology/greater efficiency

## PRIORITY ALTERNATIVE ENERGY

Region NOT GRID CONNECTED

TRANSITION TO LOWER CO2

Current lacks of efficiency  
↳ Heat/Power  
High cost/high emissions

## PRIORITY PERMAFROST



Ideas  
- Monitoring  
- Build differently

Need more info? ON THIS type of permafrost.

## PRIORITY Flooding Risk +



\$\$\$ to prepare  
- Plan for disasters  
resilience

## Falling Together

Feed Feasibility Study \$

Partner with Power Corp. - ARCTIC ENERGY ALLIANCE



Explore federal funding pots  
- ARCTIC ENERGY ALLIANCE

# NORTH SLAVE

2018 CLIMATE CHANGE FORUM AND CHARRETTE

Eco-depression - Counting Food as Western Food

Priority: **HEALTH & WELLNESS**



on the land activities

Priority: **CAPACITY BUILDING**

- Develop resources in community to address climate change
- COMMUNICATION & EDUCATION
- Plain language

What is it?

INVESTING IN COMMUNITY TO DEVELOP PEOPLE'S SKILLS AND KNOWLEDGE



Priority: **INFORMATION & AWARENESS**



UNDERSTANDABLE Data

Pulling together

- GNWT
- Ecology North
- INDIGENOUS GOVERNMENTS
- ENR
- NWTAC



PRIORITY: FOOD SECURITY

Challenges

- Hard to translate some words
- Not enough funding \$\$\$
- Talking to the right people
- Trying to get everyone together

Opportunities

- Plain language
- Dedicated staff
- Youth involv.
- Proposal writing + project manage. workshops.
- \$ to support local position
- Education

# SAHTU

2018 CLIMATE CHANGE FORUM & CHARRETTE

Priority:  
Community Buildings

PERMAFROST

Transportation Infrastructure

Priority:  
Renewable Energy

MUST COLLABORATE

Challenge: transportation \$\$

\$\$ Shipping food

IDEA: Get someone to go buy food to other communities

Priority: ACCESS TO TRADITIONAL FOODS

Elders not getting local foods like in the past.

- Changing ground

- Unpredictable weather

- Erosion losing berries

It is what gives us our dignity as Dene people.

MANY BENEFITS TO COUNTRY FOODS

TRADE!

Traditionally the way to get things



Pulling together

SRRB + RRCs - Involve Land Guardian Program CL  
Northwright Air to Ship local food economically - Lobby for \$ - Researchers WLU - Andrew Spring

Challenges

Diabetes + Heart problems linked to Western Foods.

Many families in Yellowknife

Opportunity: People trade Country foods between families

Not a Trad food harder to prepare

BUT SHIPPING

used to be moose

Now muskox

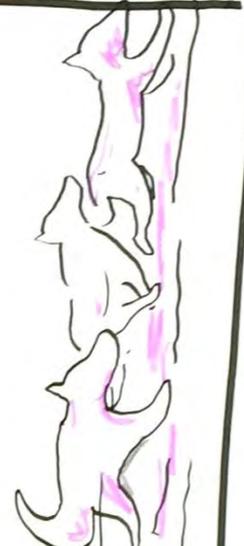
Not open to it

Opportunity: Learn ways to cook and prepare muskox

Opportunity: Community feasts

Ways to TRADE BETWEEN COMMUNITIES

Introduce Country food store - harvesting





**MY COMMUNITY  
MATTERS**