

## Climate Action Strategy – Workshop Notes

Participants Invited	Attended	Apologies	Participants Invited	Attended	Apologies
Liz Zetlin	X		Tim Simmonds		X
Joachim Ostertag	X		Pam Coulter	X	
John Anderson	X		Kate Allan	X	
Greg Nicol	X		Lara Widdingfield	X	
Kurtis Boyce	X		Phil Eagleson		X
Michelle Palmer	X		Aidan Ware	X	
Bradey Carbert	X		Maggie Murakami	X	

**Time:** 1:30 pm to 2:30 pm

**Date:** Monday March 6, 2023

**Venue:** Basement Boardroom

### GENERAL DISCUSSION

CATOS (Joachim Ostertag, Liz Zetlin, John Anderson) provided an information session on climate change

#### 1. Basics of climate change

- FCM Clean Air Partnership document released – Bridges and Barriers; identified municipalities that were successful and those that weren't; identified key success factor was staff education
- Science of climate change has been around 30 years; it's really about sociology of people behaviours: what's the problem? How will it affect me? What can I do about it?
- Canada has one of the highest per capita emissions
- Climate – long term weather patterns; weather is atmospheric conditions over a short term
- Impacts to municipalities: increased insurance costs; costs to repair infrastructure

#### 2. Climate Action locally

- Resilience film (2019) – goal was to raise awareness and foster a regional network;
- CATOS initiated in 2019; broad network to foster engagement in the community
- GBCAN initiated in 2020; 10 with Grey Bruce Simcoe to support regional action
  - Municipal engagement and citizen engagement
- Collaboration with the City on Climate Action Strategy
  - Host public consultation on draft climate action strategy
  - Participate in Earth Day
  - Participate in Youth Climate Conference
  - Pollinator Plant Fair with OPEN Team and River District

#### 3. Sociology of climate action and inaction

- Cycle of change- precontemplation, contemplation, determination/preparation, action, more action, maintenance
  - Precontemplation – ignore, don't talk about it, denial, blame

- Contemplation – begin to get concerned, awareness increases, but business continues as usual
- Determination/preparation – decision is made, we will act; join PCP, establish baselines and targets for reduction of emissions
- Action – collaboration, ongoing education/training, leadership,
- More Action – shift from voluntary to mandatory, focused resources, communicate urgency
- Maintenance – continue to review what works and what doesn't work and adjust strategies
- Climate Justice – resources available
- FCM/ ICLEI – resources available

#### 4. Climate lens


- Part of climate adaptation plan includes the development of a climate lens; work is underway to develop a tool which can be utilized by staff

#### Additional Comments:

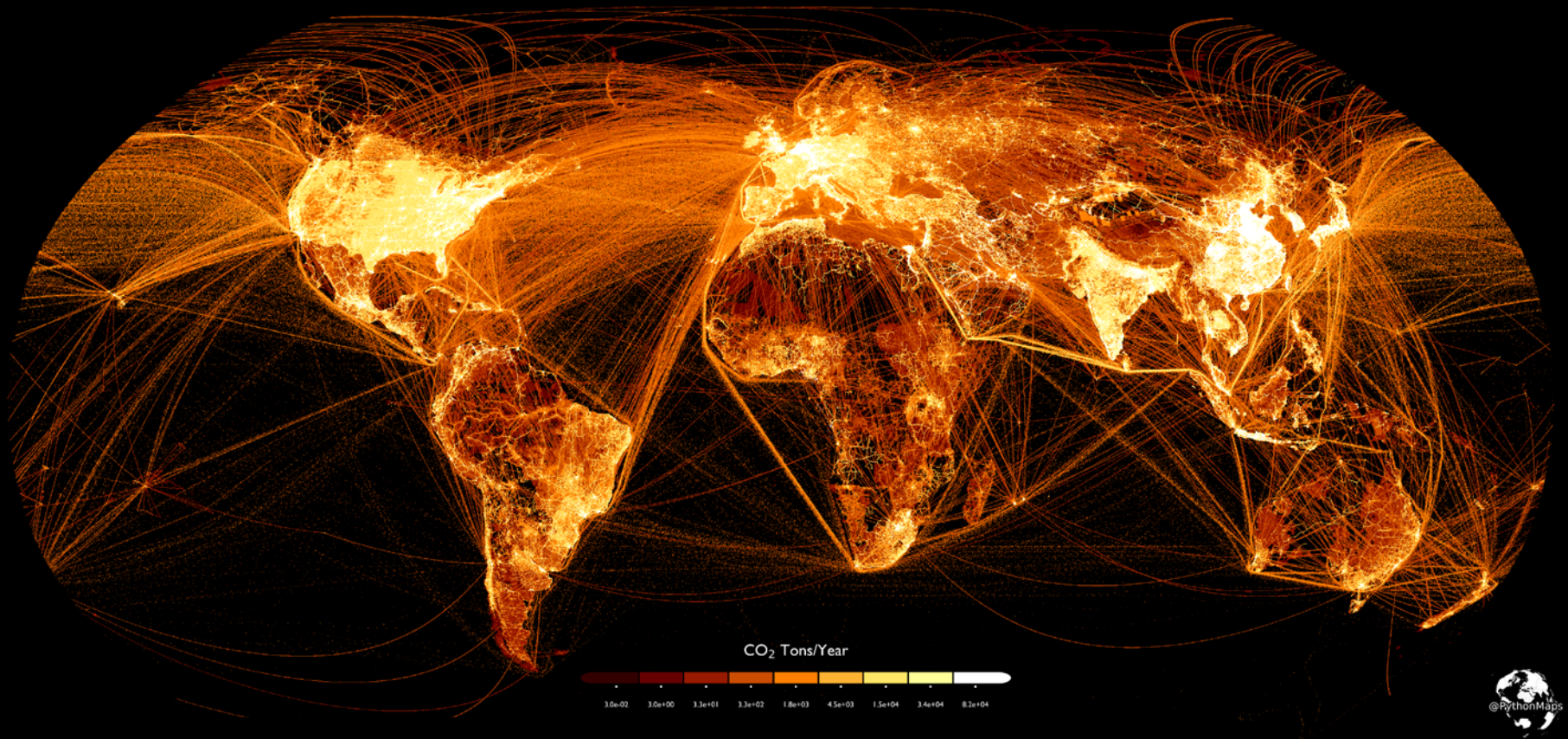
- Training for staff: having a climate change; potential to build into onboarding program
- Grant Funding – opportunity for building retrofit, potential to investigate re: TTAG due to impacts related to inventory storage; Grey County was compiling funding opportunities as part of community of practice; e.g. [Canada Greener Homes Grant](#)
- Central resource for community; being a HUB –new resource being hired at the County having focus on community engagement related to climate
- Federal government will need to step up with additional funding in order to have community and corporate actions

# Climate Change

John Anderson  
CATOS

- 
1. What's the problem?
  2. How will it affect me?
  3. What can I do about it?

What's the problem?

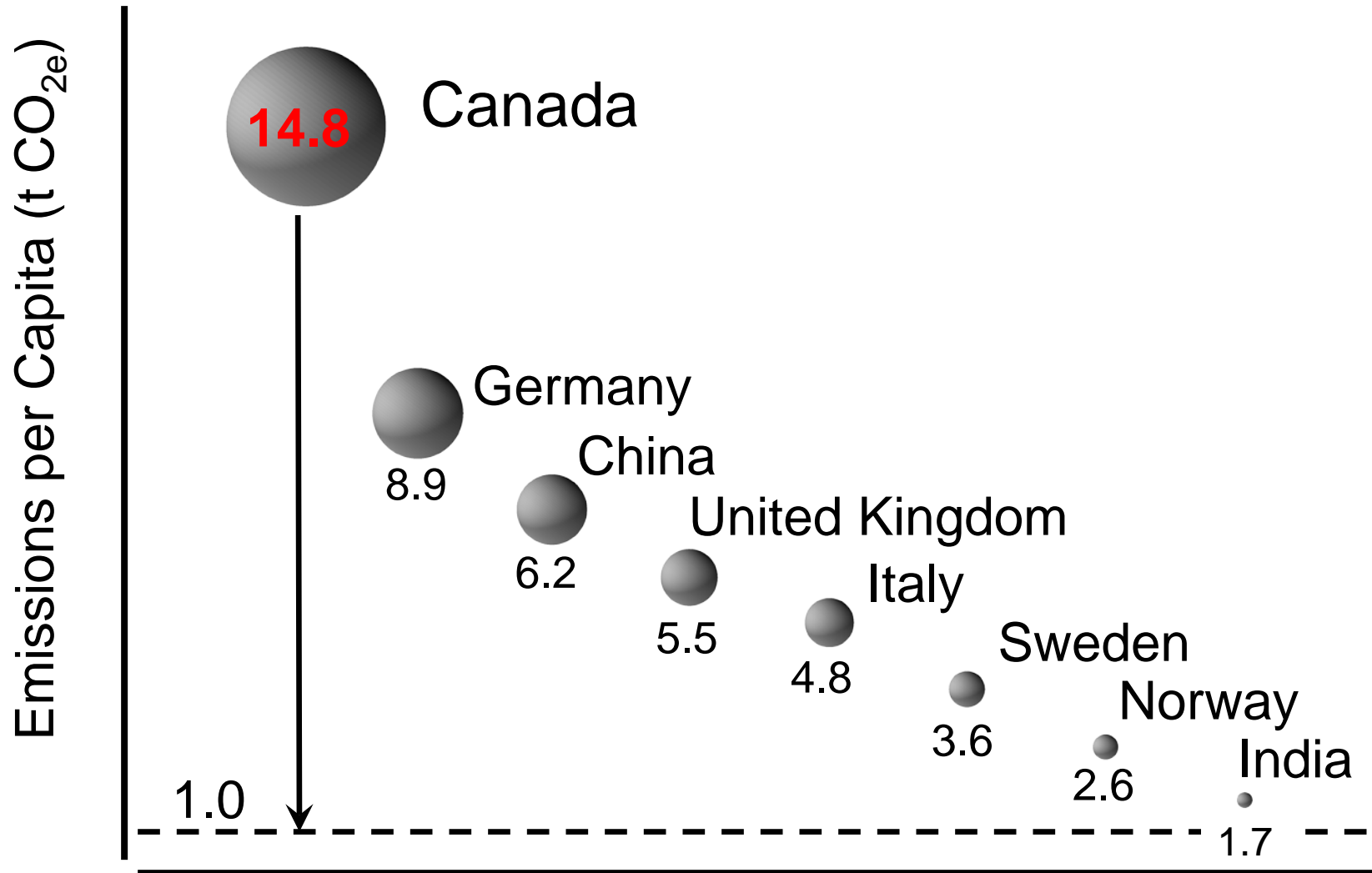


Carbon Dioxide Emissions 2018





# Carbon Emissions Per Capita



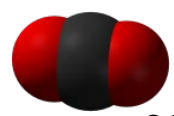
# Weather versus Climate?



# Climate Change

- Long term changes in Atmosphere & Oceans
- Atmospheric **Carbon Dioxide** and **Temperature**
- Variability of weather
- Extreme weather events
- **Natural** vs **Anthropogenic**





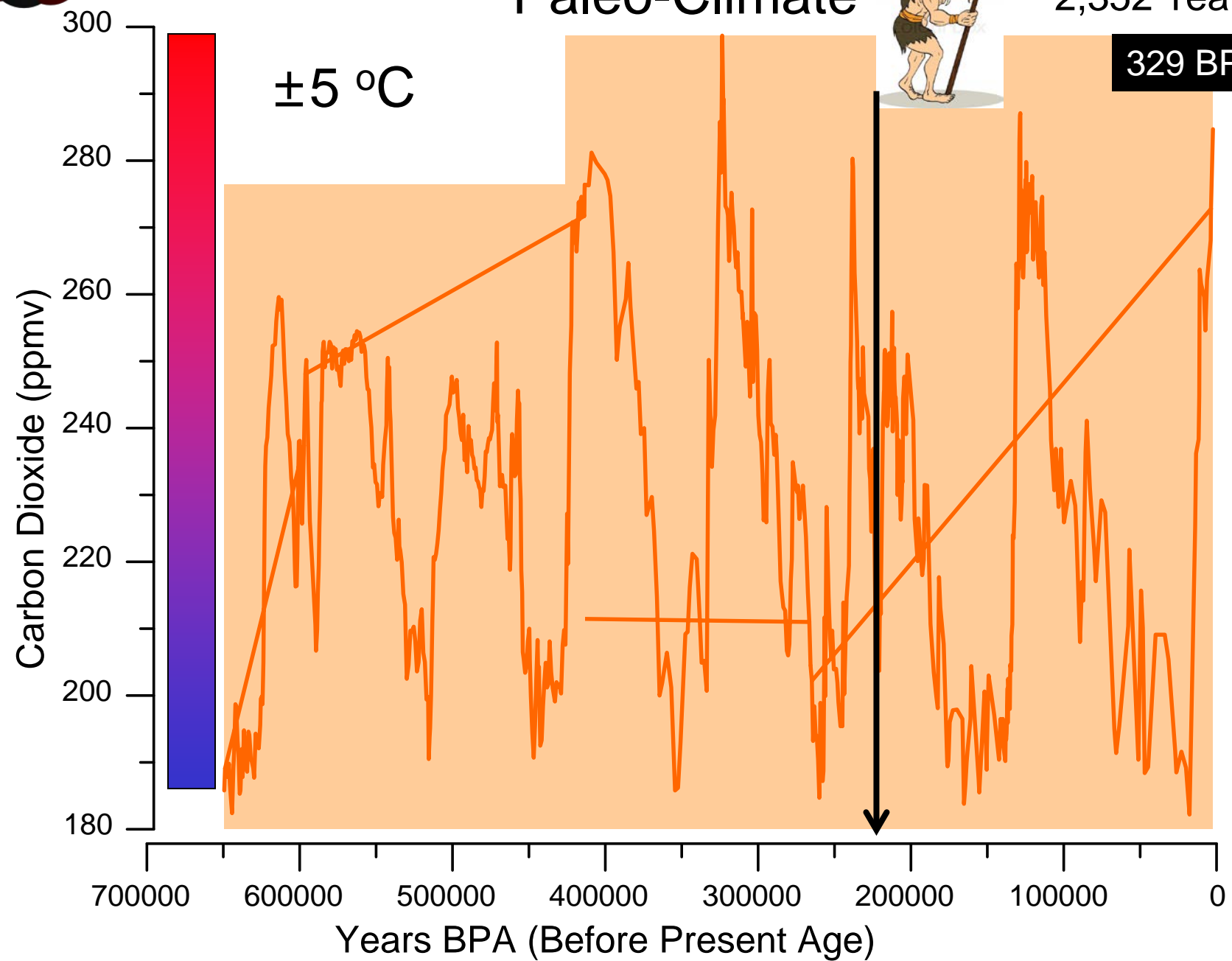
# Paleo-Climates

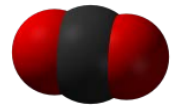


2,352 Years Ago

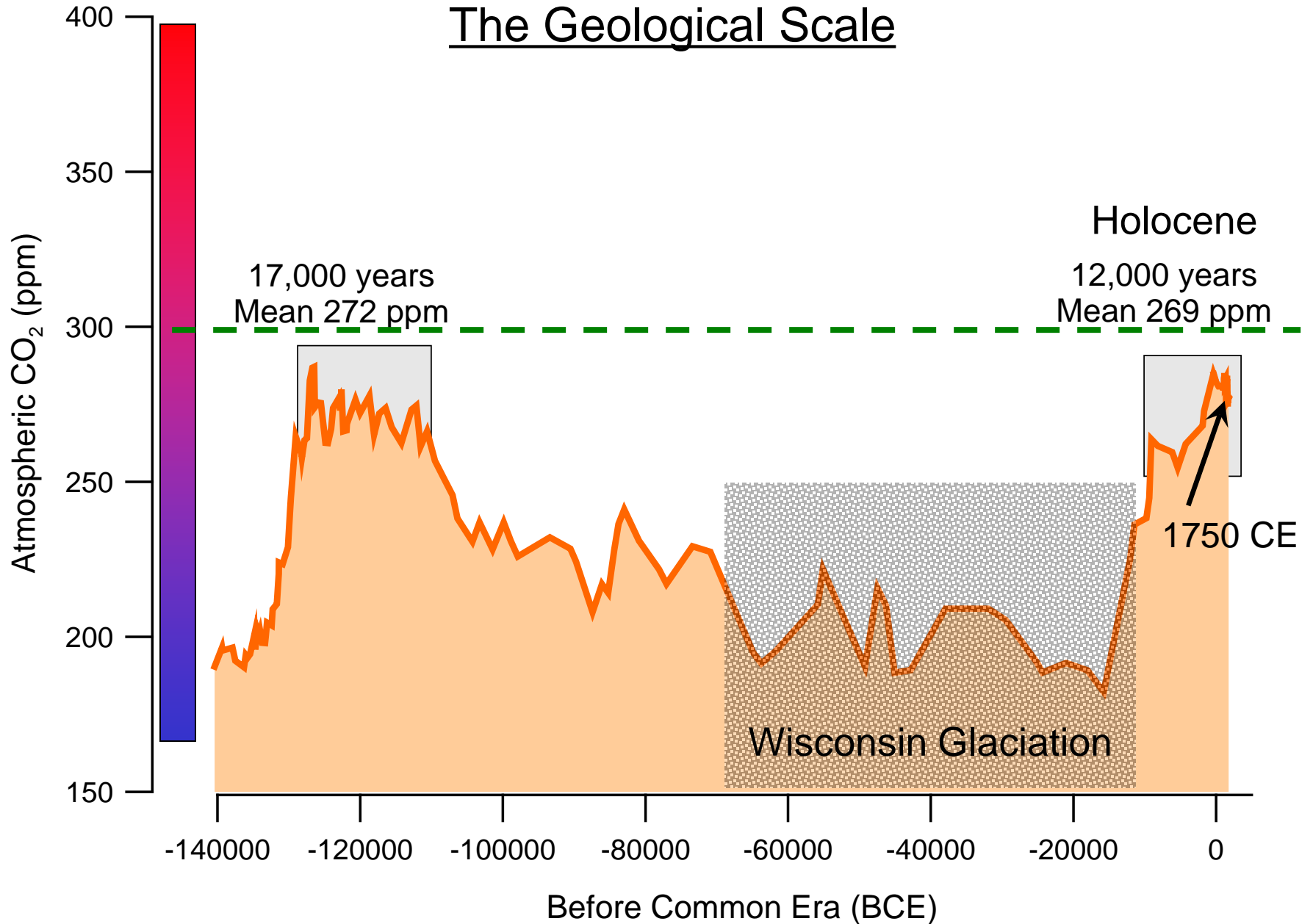
329 BPA

$\pm 5^{\circ}\text{C}$





# Natural Climate Change The Geological Scale

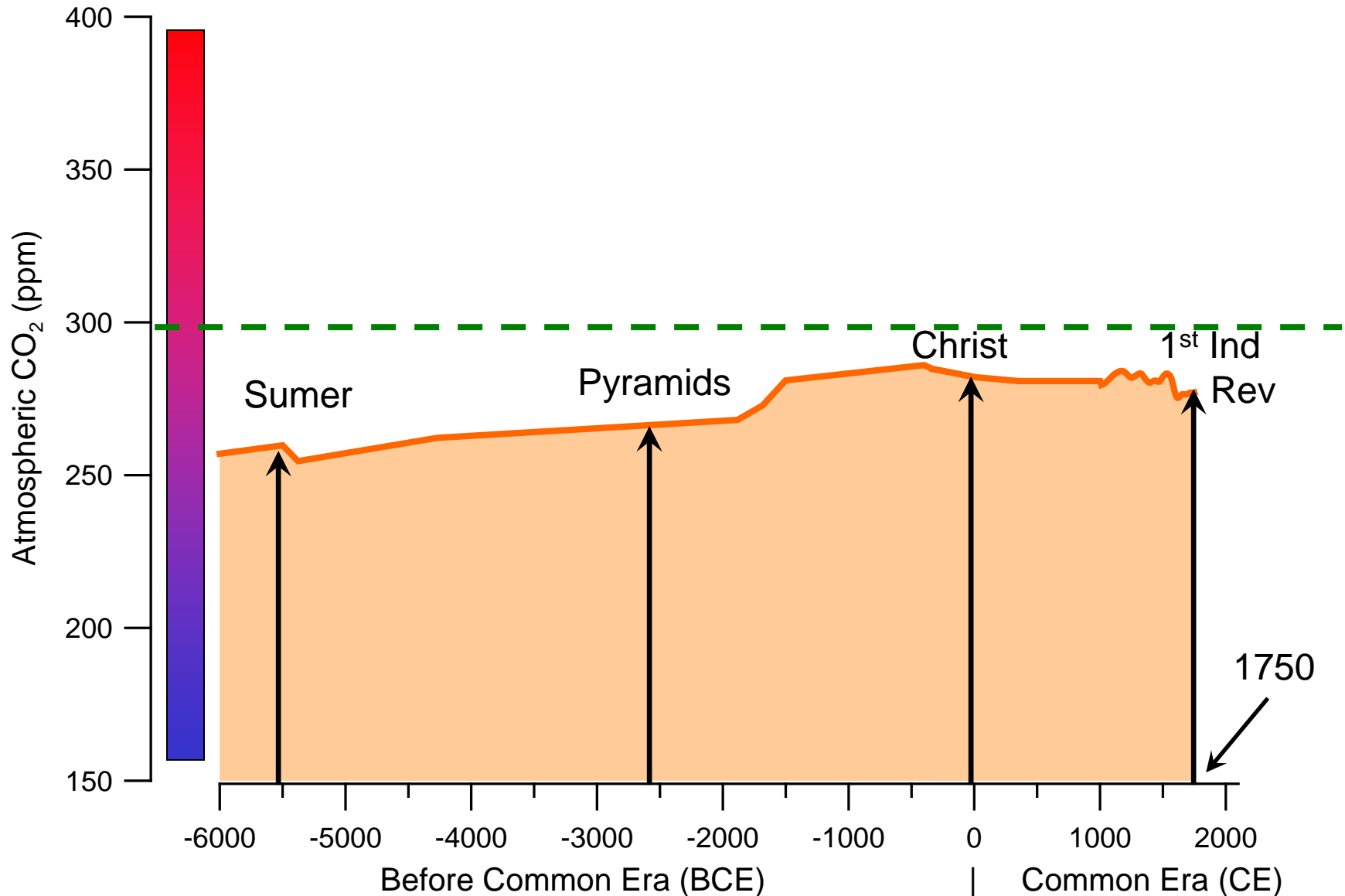


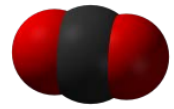




# Natural Climate Change

## The Society Scale



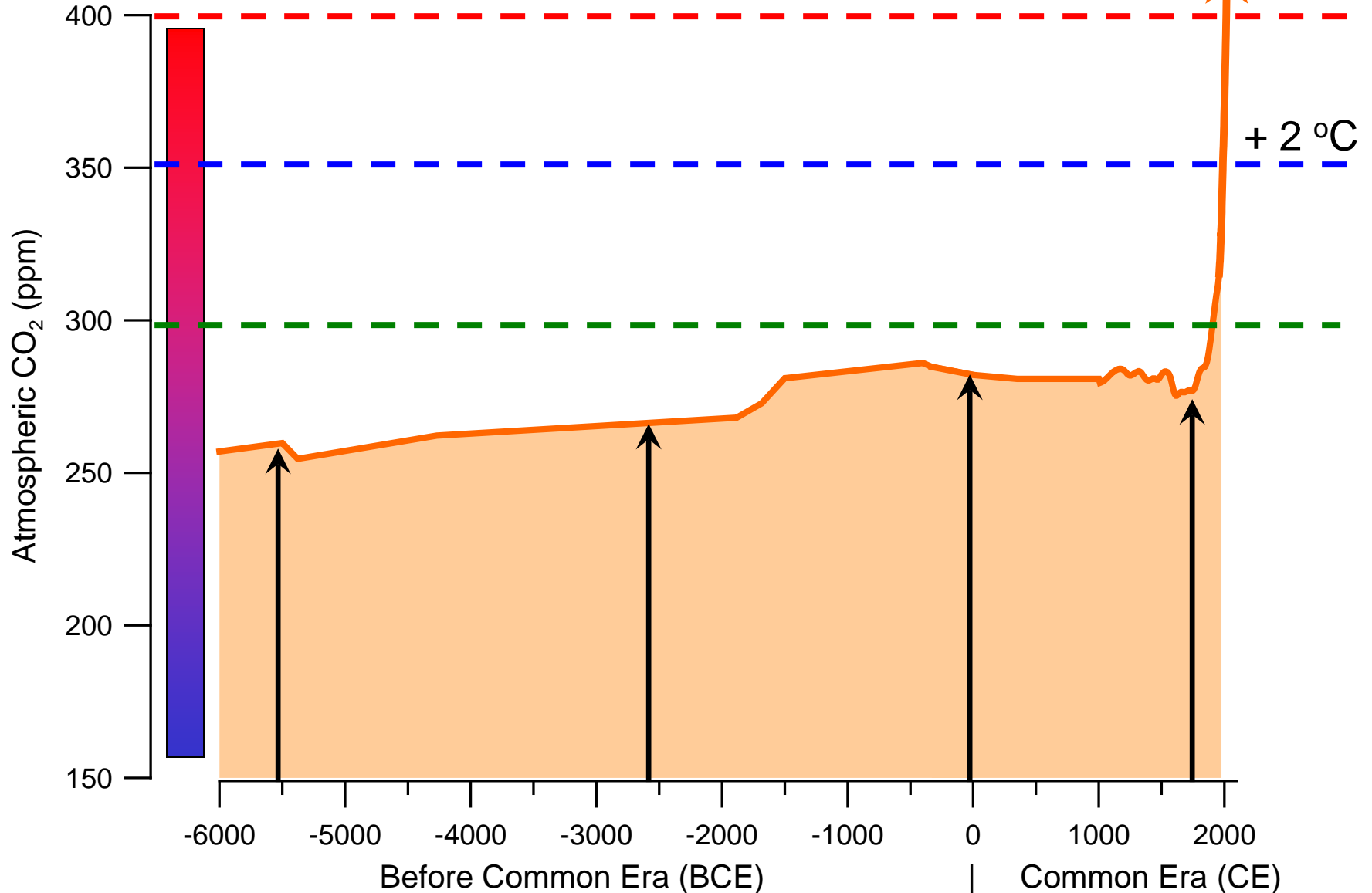


# Not-Natural Climate Change

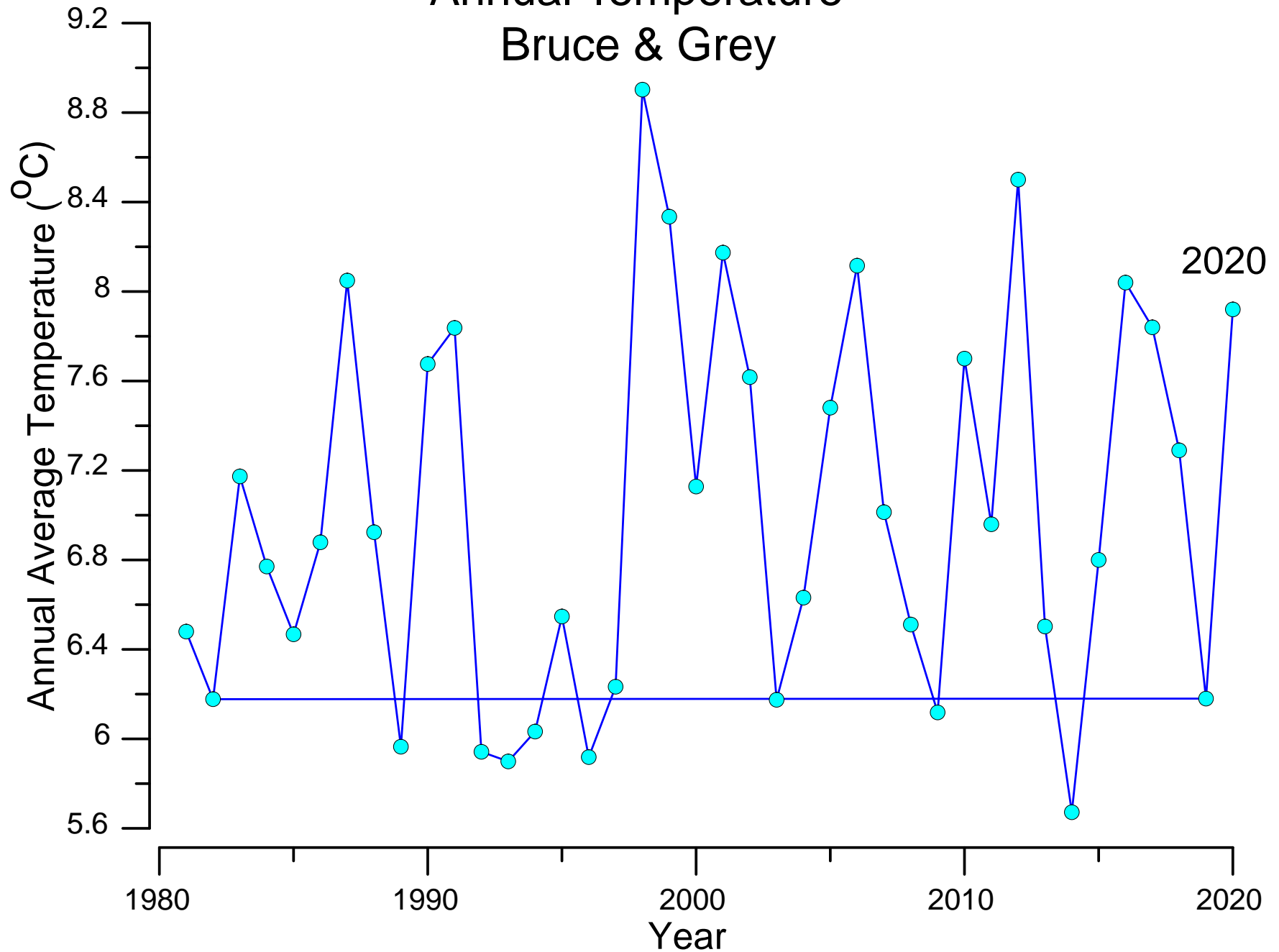
## The Society Scale

Anthropocene

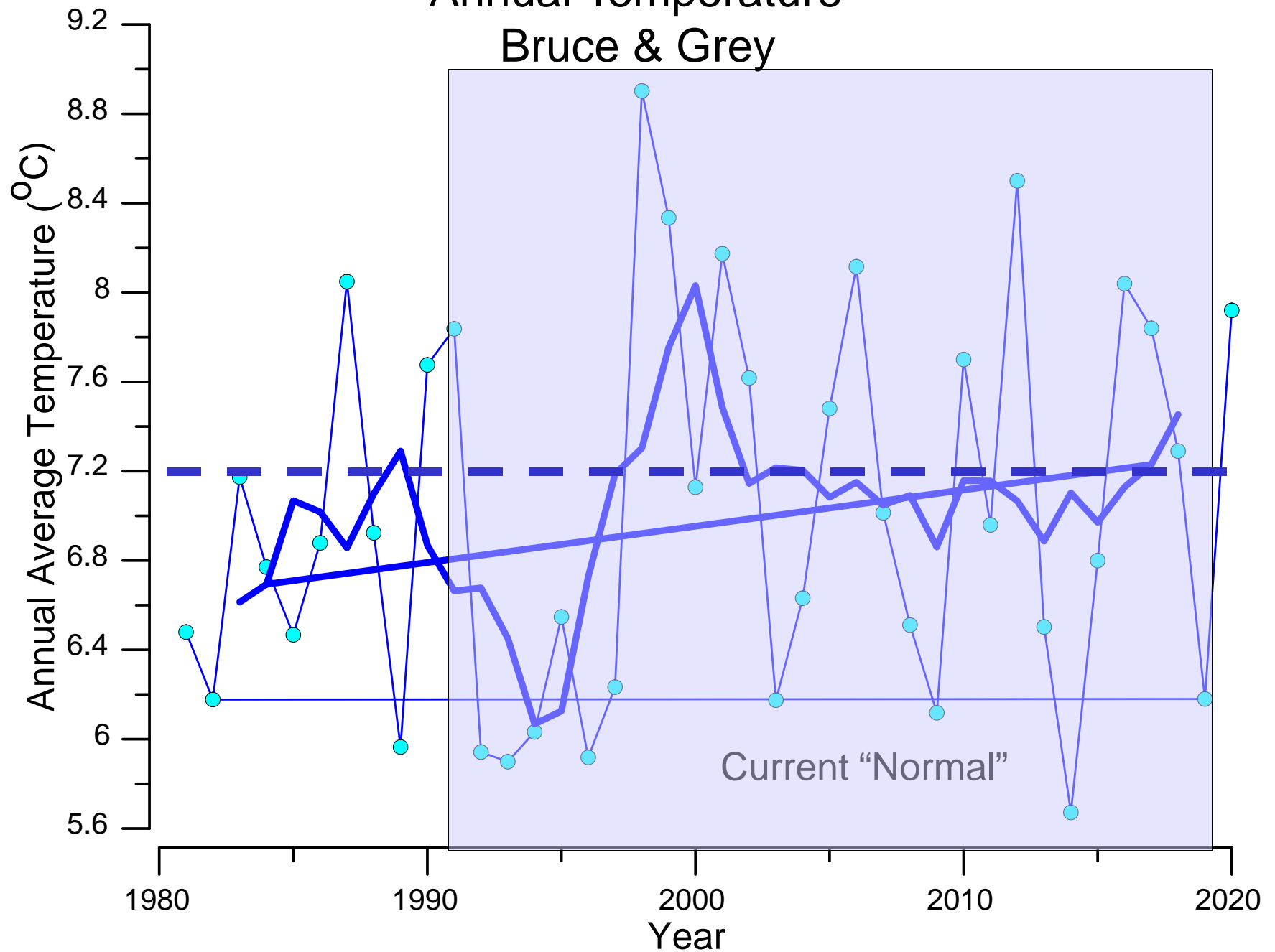
2022



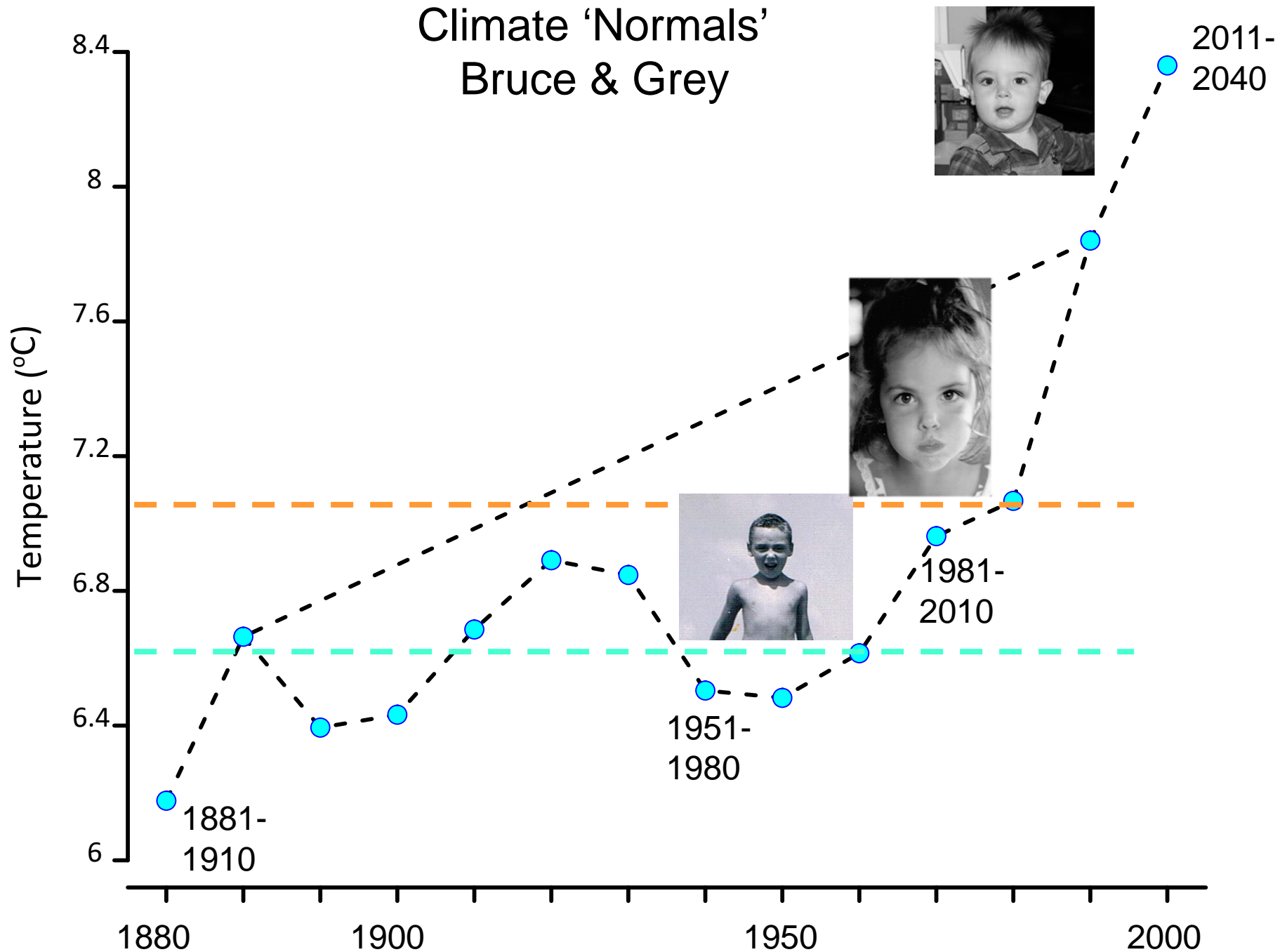
# Annual Temperature Bruce & Grey



# Annual Temperature Bruce & Grey

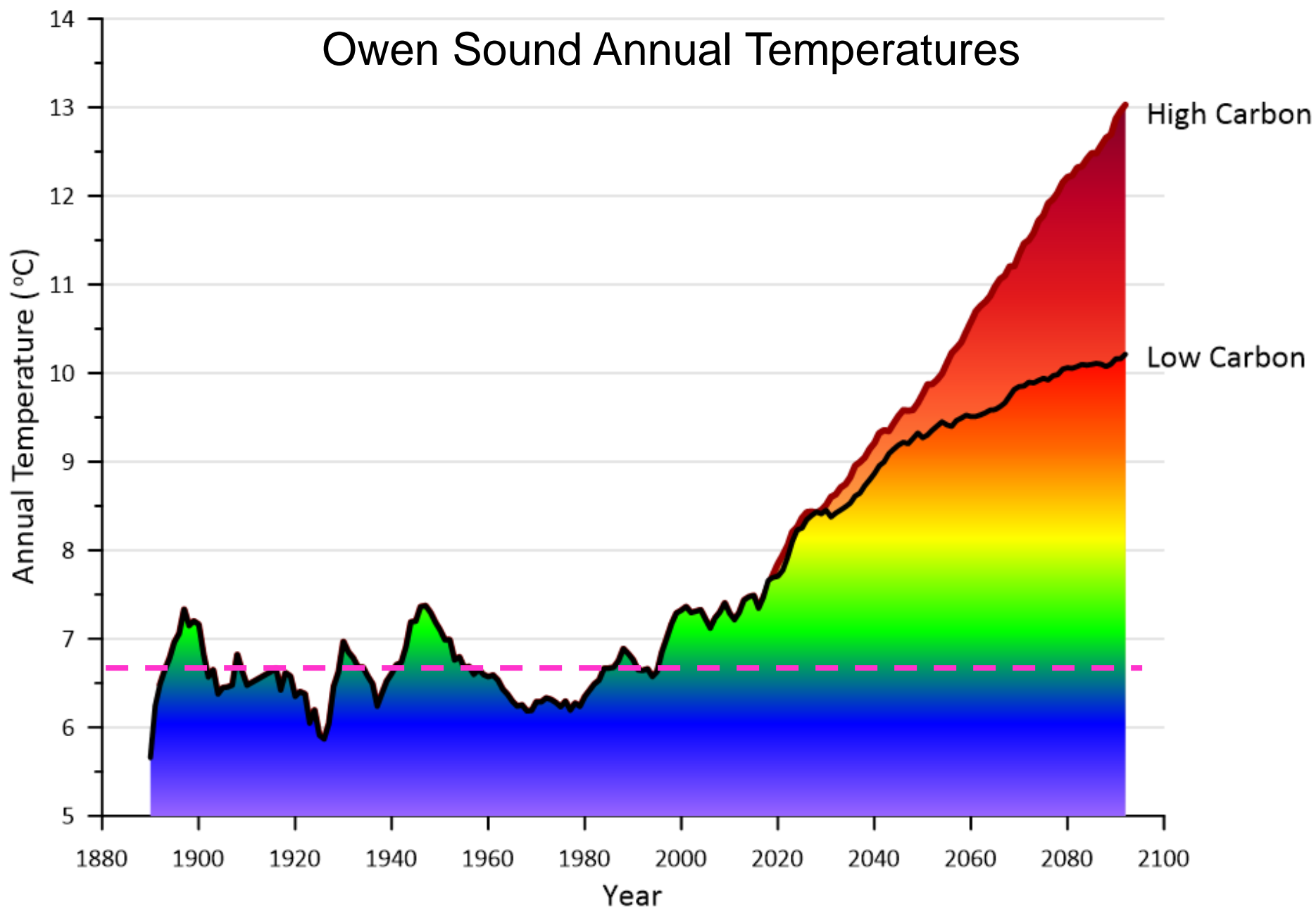


# Climate 'Normals' Bruce & Grey





# Owen Sound Annual Temperatures

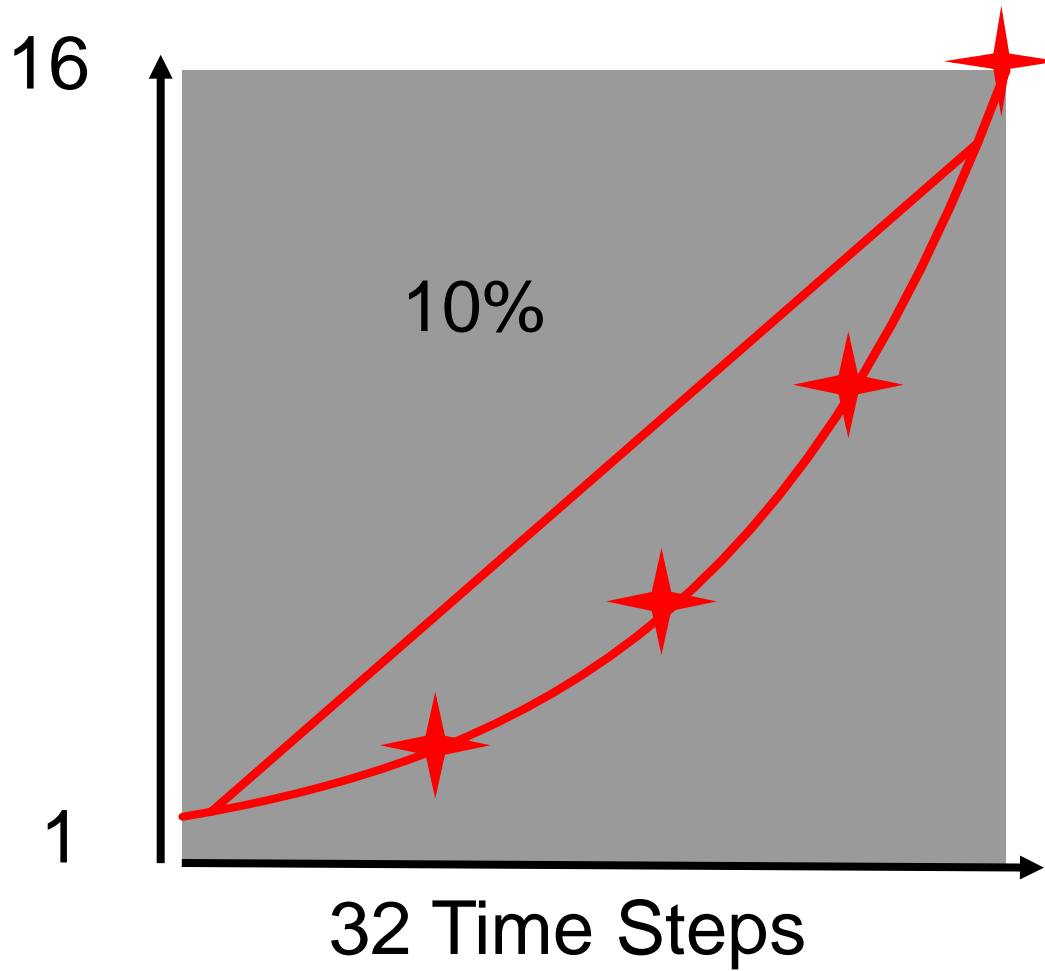




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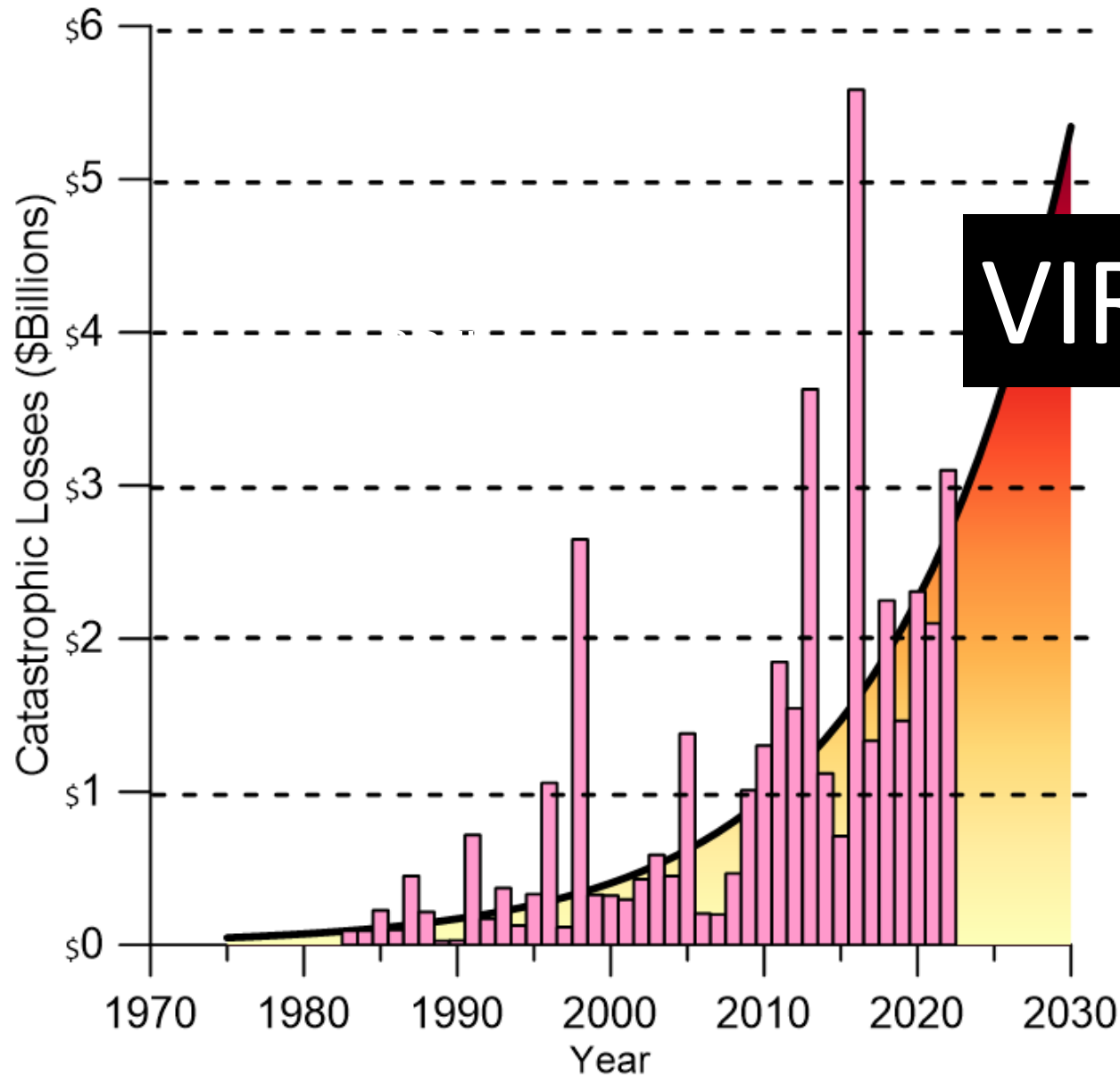
**VIRAL...**

# Exponential Growth



**VIRAL...**

# Insurance Bureau of Canada



IBC  BAC



2021

# FACTS

of the Property and Casualty  
Insurance Industry in Canada

Don Forgeron - CEO  
Insurance Bureau of  
Canada

“For every dollar paid in insurance claims for damaged homes and businesses, Canadian governments pay *six times* that amount to repair public infrastructure. Yet Canada still lacks a national adaptation strategy with measurable targets...”



# Vulnerability and Risk Assessments

## Vulnerability Assessment:

- Sensitivity
  - to carry out normal activities and provide services
- Adaptive Capacity
  - recover to normal with minimal cost or disruption

## Risk Assessment:

- Likelihood
  - probability of an identified Vulnerability happening
- Consequence
  - Minor (1) to catastrophic (5) impact on normal life





MCIP Reporting Documents for the  
Township of Huron-Kinloss' Climate Change  
and Energy Plan

2018



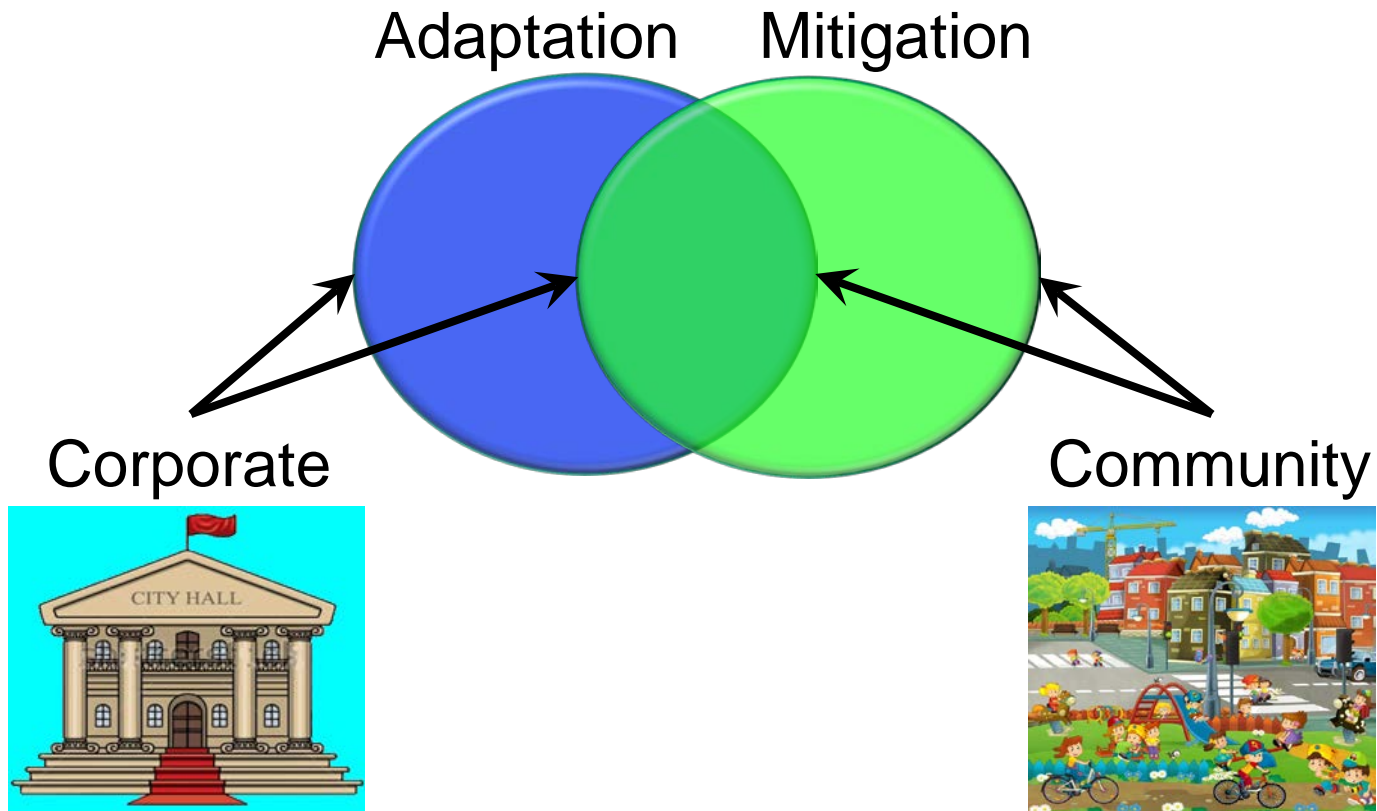
## Vulnerability Assessment

### Identified Climate Threats:

- High Vulnerability = 19
- Medium Vulnerability = 20
- Low Vulnerability = 8

*“Community has a high sensitivity  
and low adaptive capacity”*

# Climate Action

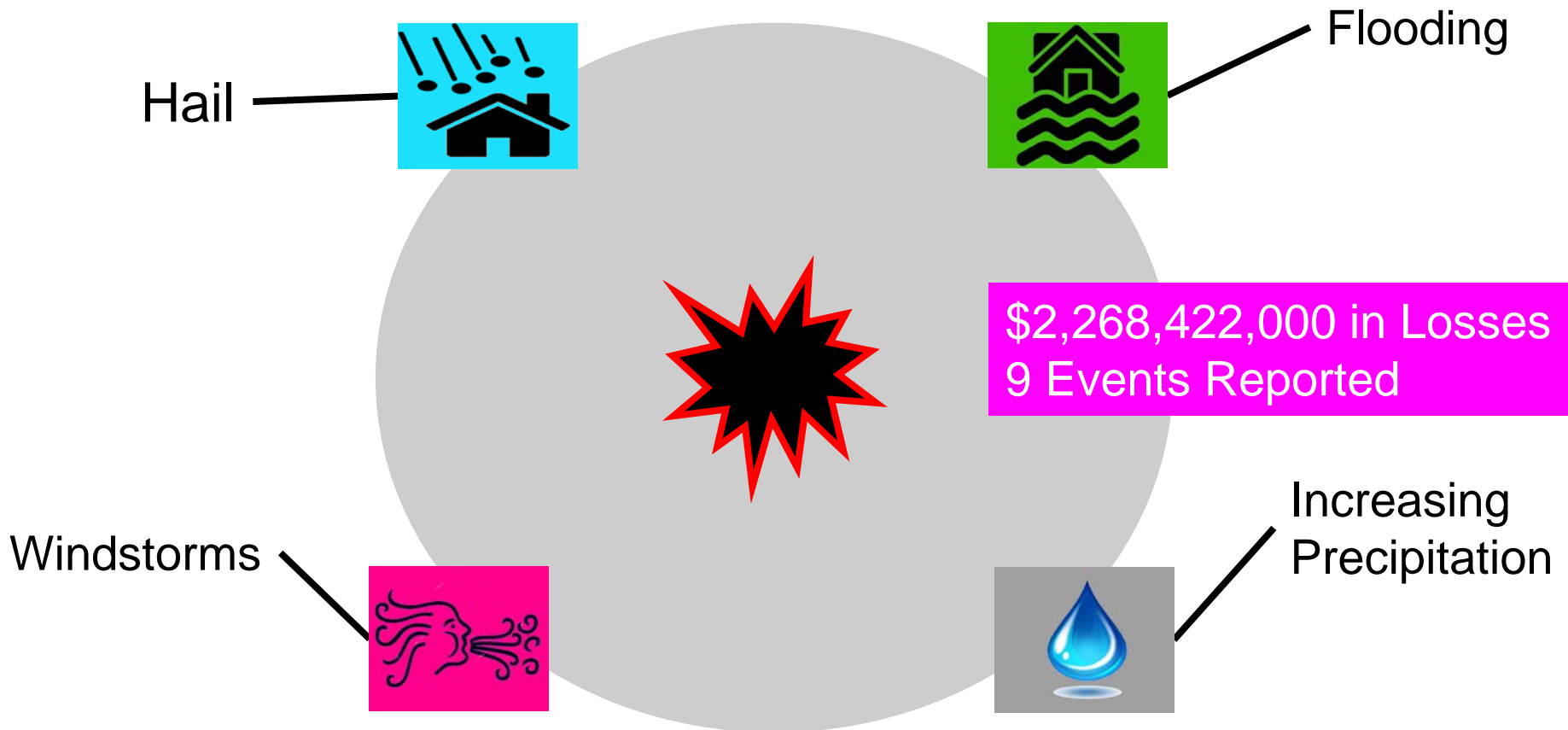


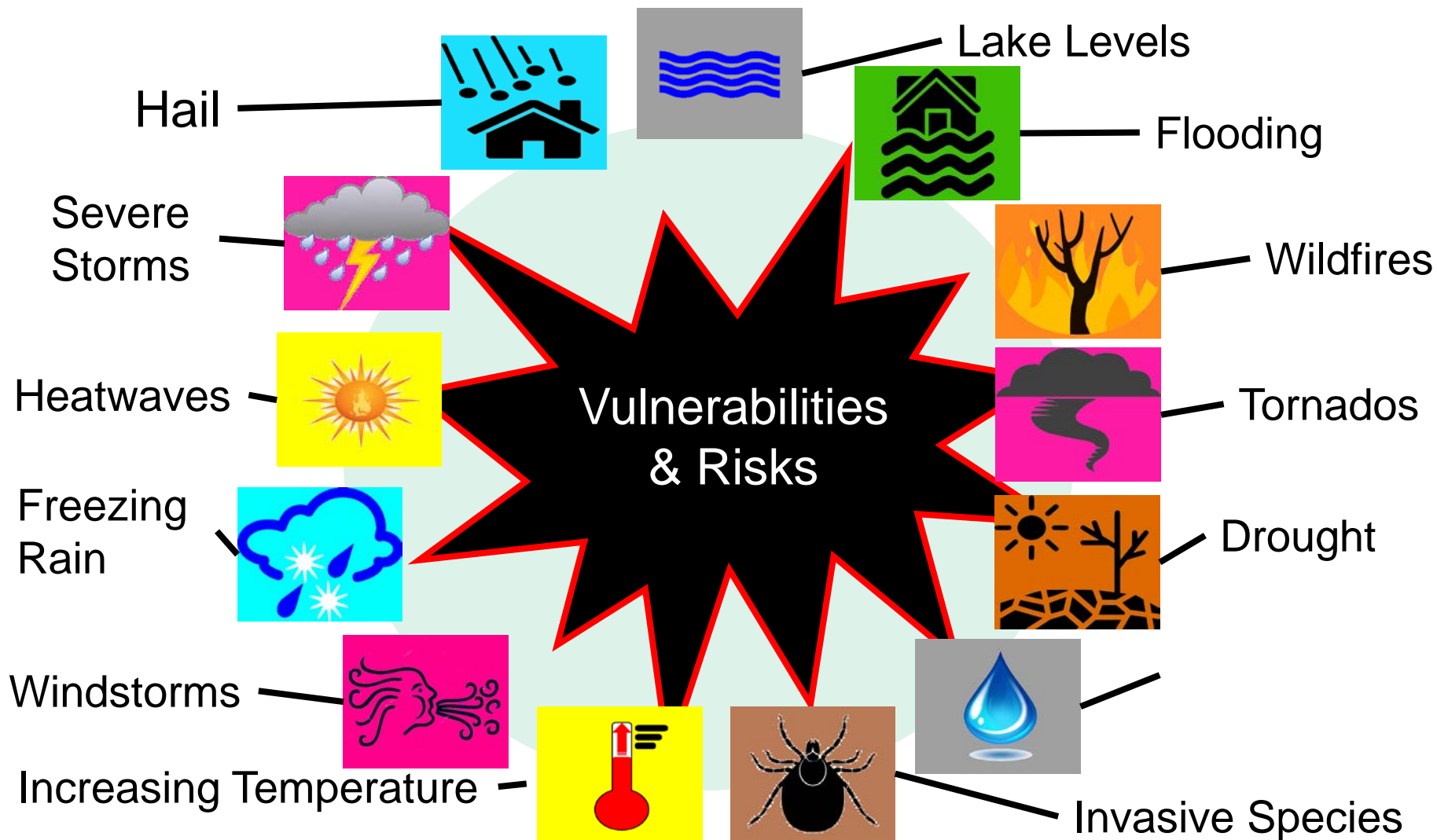
Emissions = 1.8%  
Vulnerabilities  $\approx$  25%



Emissions = 98.2%  
Vulnerabilities  $\approx$  75%

# Insured Catastrophic Losses - 2020

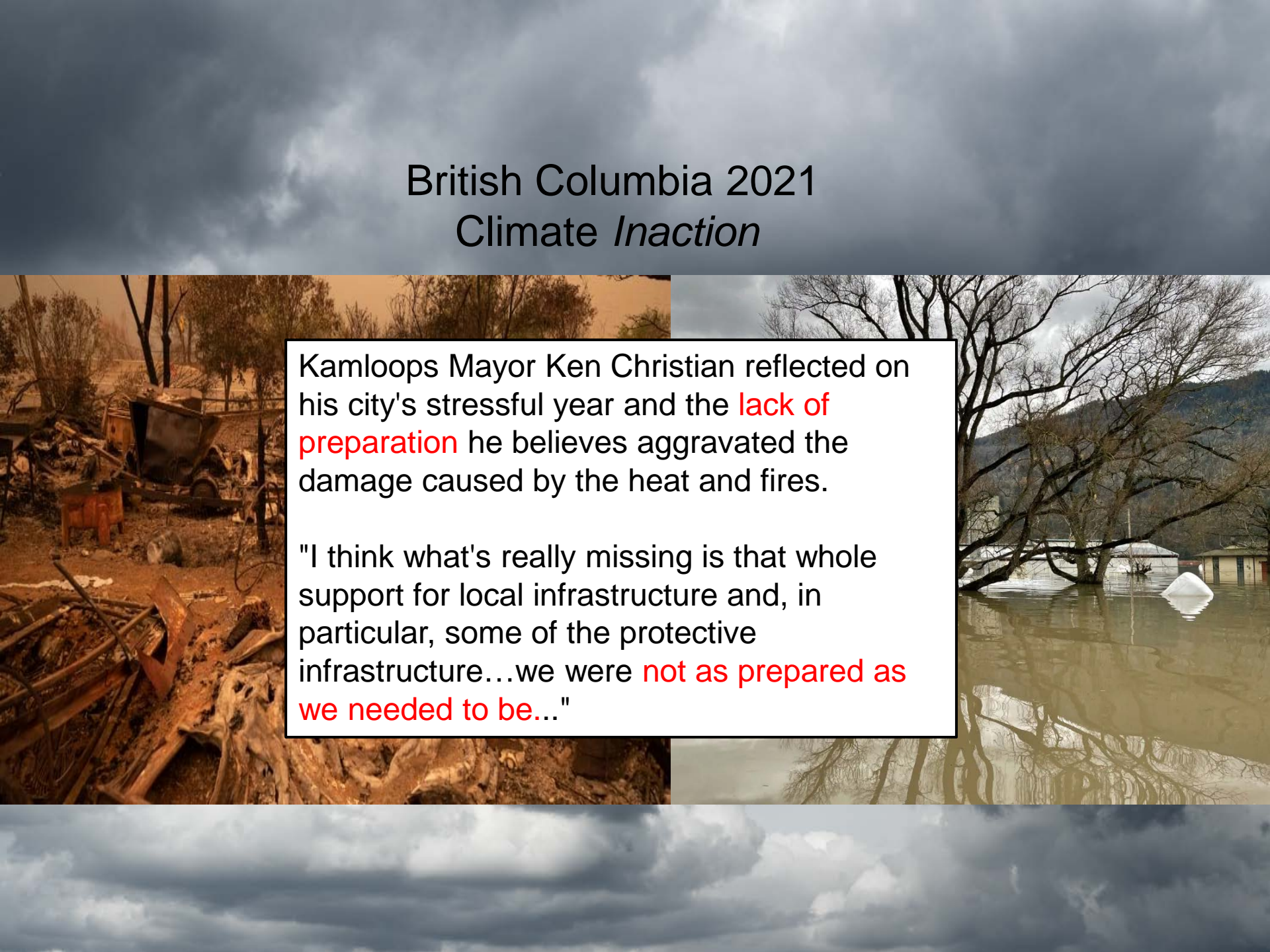






# British Columbia 2021

## Climate *In*action



Kamloops Mayor Ken Christian reflected on his city's stressful year and the **lack of preparation** he believes aggravated the damage caused by the heat and fires.

"I think what's really missing is that whole support for local infrastructure and, in particular, some of the protective infrastructure...we were **not as prepared as we needed to be...**"

Climate Change = Climate Action





REGIONAL &  
OWEN SOUND

# CLIMATE ACTION

2019 - PRESENT

Liz Zetlin

March 6, 2023





# A CLIMATE CHANGE FILM OF HOPE & ACTION



- Raise Awareness & action
- Foster a Regional Network



# Resilience Premier

Roxy Theatre 2019



20+ community screenings

2300+ views on YouTube

[www.resiliencedoc.info](http://www.resiliencedoc.info)



# RAISE AWARENESS



- First public meeting – 2019
- Beginning of CATOS (Climate Action Team Owen Sound)



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# RAISE AWARENESS

## CLIMATE FORUMS:

- Monthly educational presentations and discussions
- 30+ held 2019-present





# FOSTER A REGIONAL NETWORK



**GBCAN**

Grey Bruce  
Climate Action Network  
Established 2020



**GBCAN**

Mission

**Owen Sound**

Georgian Bluffs

Meaford

Grey Highlands

West Grey

Blue Mountains

Saugeen Shores

North Bruce Peninsula

Collingwood

Wasaga Beach

- Support regional action to reduce greenhouse gas emissions & adapt to climate change
- Share resources & strategies
- Come together when regional action needed
- Liaise with Grey County & other organizations





**GBCAN**

Grey Bruce

Climate Action Network

## COLLABORATIVE APPROACH

- Municipal Engagement
- Citizen Engagement







GBCAN

Grey Bruce

Climate Action Network

## MUNICIPAL ENGAGEMENT A SHARED EFFORT TO:

- Learn about climate change
- Apply lessons to public policy & practice
- Adopt a climate lens to evaluate municipal actions
- Ensure we are prepared







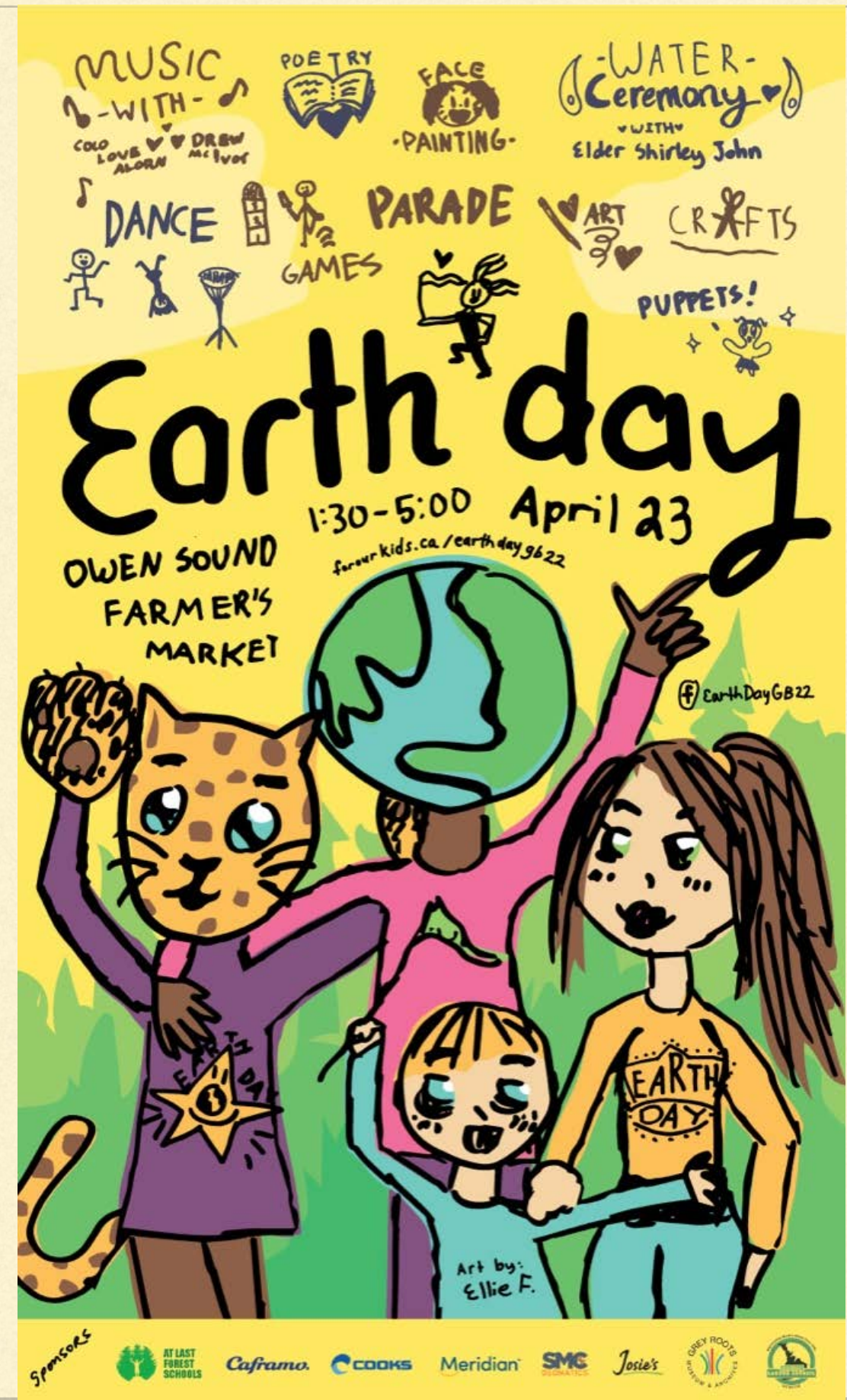
**GBCAN**

Grey Bruce

Climate Action Network

## CITIZEN ENGAGEMENT: EARTH DAY 2022

- 500+ people attended
- 30+ exhibitors
- Parade & costumes
- Musicians & Dancing
- Most Promising New Event  
(Owen Sound Cultural Awards)







# **MOST PROMISING NEW EVENT**

## **EARTH DAY GREY BRUCE**



# CLIMATE ACTION TEAM OWEN SOUND: GOALS 2023

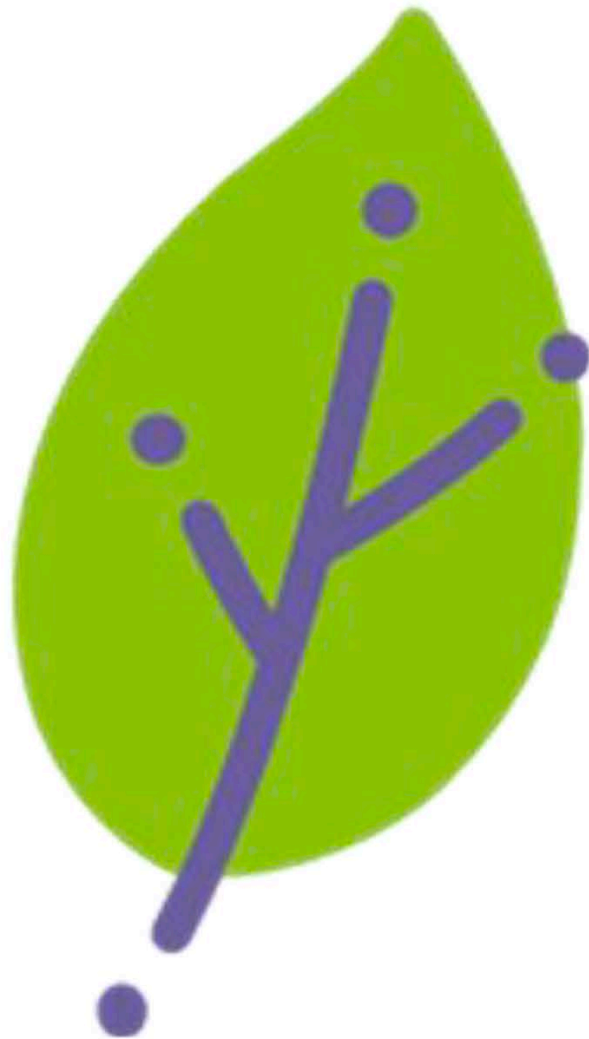
## Collaborate with City Staff

- Be an asset for the city
- Climate Action Strategy input

## Public Engagement

- Host public consultation on draft CAS
- Participate in Earth Day
- Present at Youth Climate Conference
- Contribute to regional network
- Plan Pollinator Plant Fair with OPEN team & River District





GBCAN

# **Grey Bruce Climate Action Network**

## **Annual Report, May 2021 to May 2022**





# EVERY DAY IS EARTH DAY

Hope is a practice  
It's something you DO  
Instead of something you HAVE

Together we will make  
a difference





THANK YOU






# Climate Action How do we change and take action together??

The Cycle of Change

A large orange circle is positioned on the left side of the slide, partially overlapping the title text.

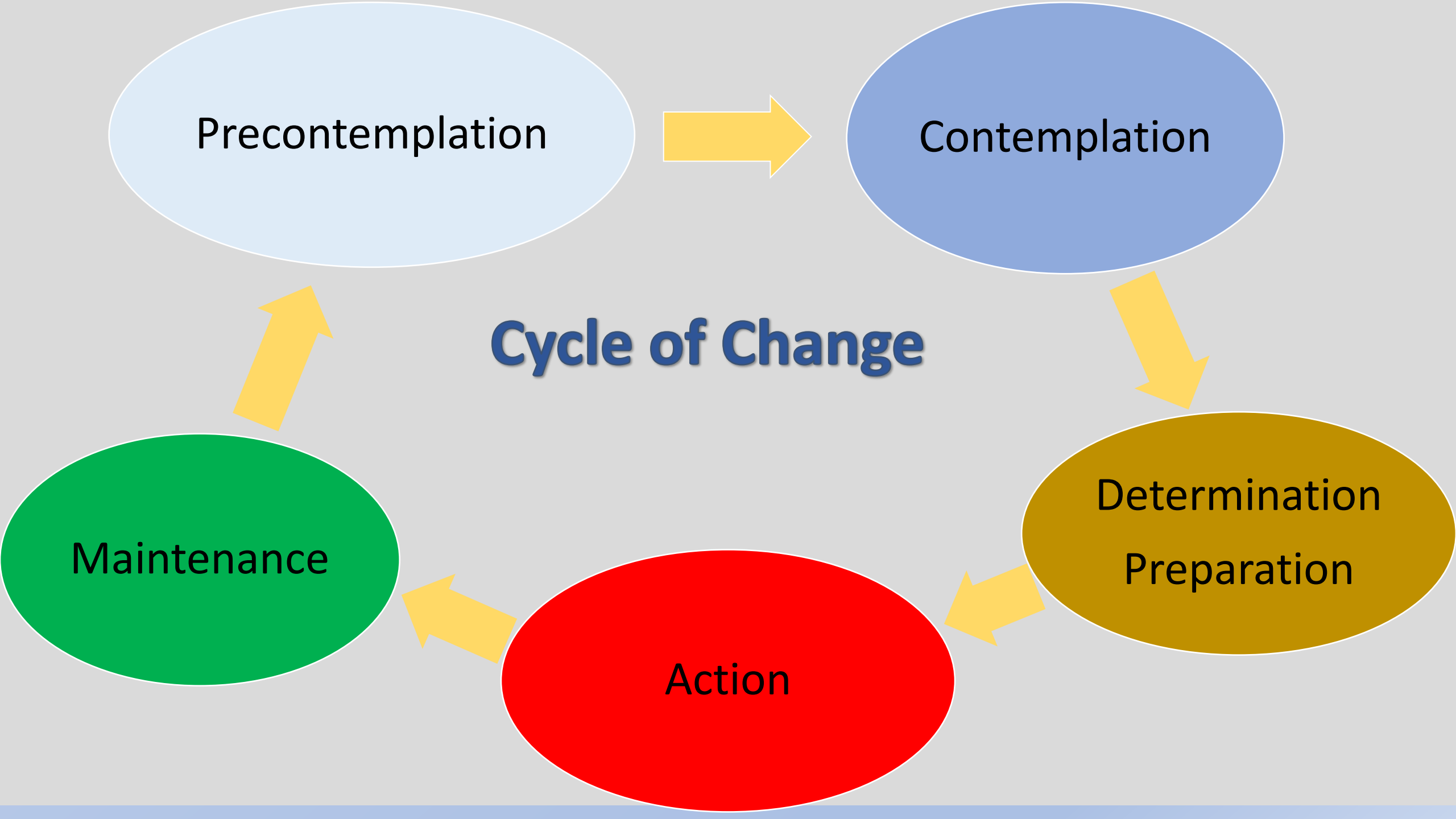
# Phases of Change

- Human-induced climate change is the largest, most pervasive threat to the natural environment and societies the world has ever experienced (UN)
  - Change through Action is unavoidable
  - Actions require profound changes on individual and collective / political levels
  - Making changes are complex and not everybody is necessarily at the same pace
- 
- A series of yellow brushstroke-like lines are located in the bottom right corner of the slide.



Change follows certain  
phases

Here is a model that can help  
us identify where we come  
from and where we are going  
with Climate Action



## Precontemplation

- The Phase of inaction
- Although there are problems, we don't talk about it, dismiss the truth
- Ignore the science and obvious signs of climate changes (global warming, extreme weather, sea levels rising, wildfires, floods etc.)
- We pretend, all is ok
- Denial, blame, minimization
- Denial is a powerful tool to survive; it decreases our anxiety but nothing changes

## Contemplation

- We start listening to scientists, the IPCC and the UN who provide us with data on climate change, raise the alarm and call for immediate action
- We hear the bad news and start getting concerned:
  - Maybe we have to make changes
- Although awareness increases there is no action yet
- We hear the alarm but continue business as usual

## Determination Preparation

- Decisions are made: Yes, we will act!
- Develop a climate lens and comprehensive Action Strategy
- Get ready for change and concrete action:
  - Collaborate with Grey County,
  - Join FCM/PCP
  - Establish GHG Emissions Baseline
  - Set binding GHG emission targets: 0 GHG by 2050 or earlier
  - Recognize and include overcoming existing systemic inequalities in all planning
  - Commit to just transition, leave no one behind



**PUBLIC OPINION RESEARCH**

# **CLIMATE EMERGENCY POLLING**

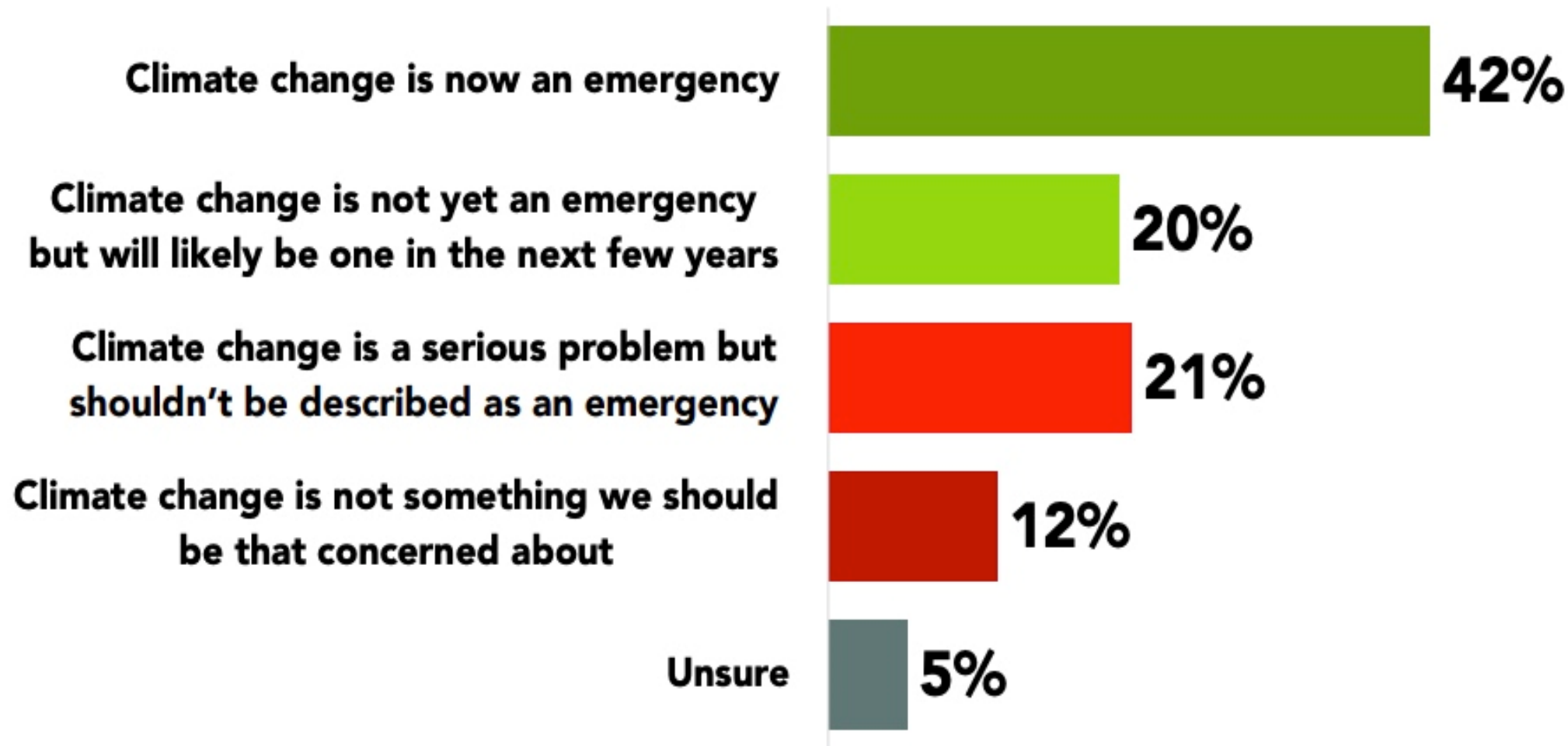
**SUMMER 2019**

**NATIONAL SURVEY OF 2,000 CANADIANS**

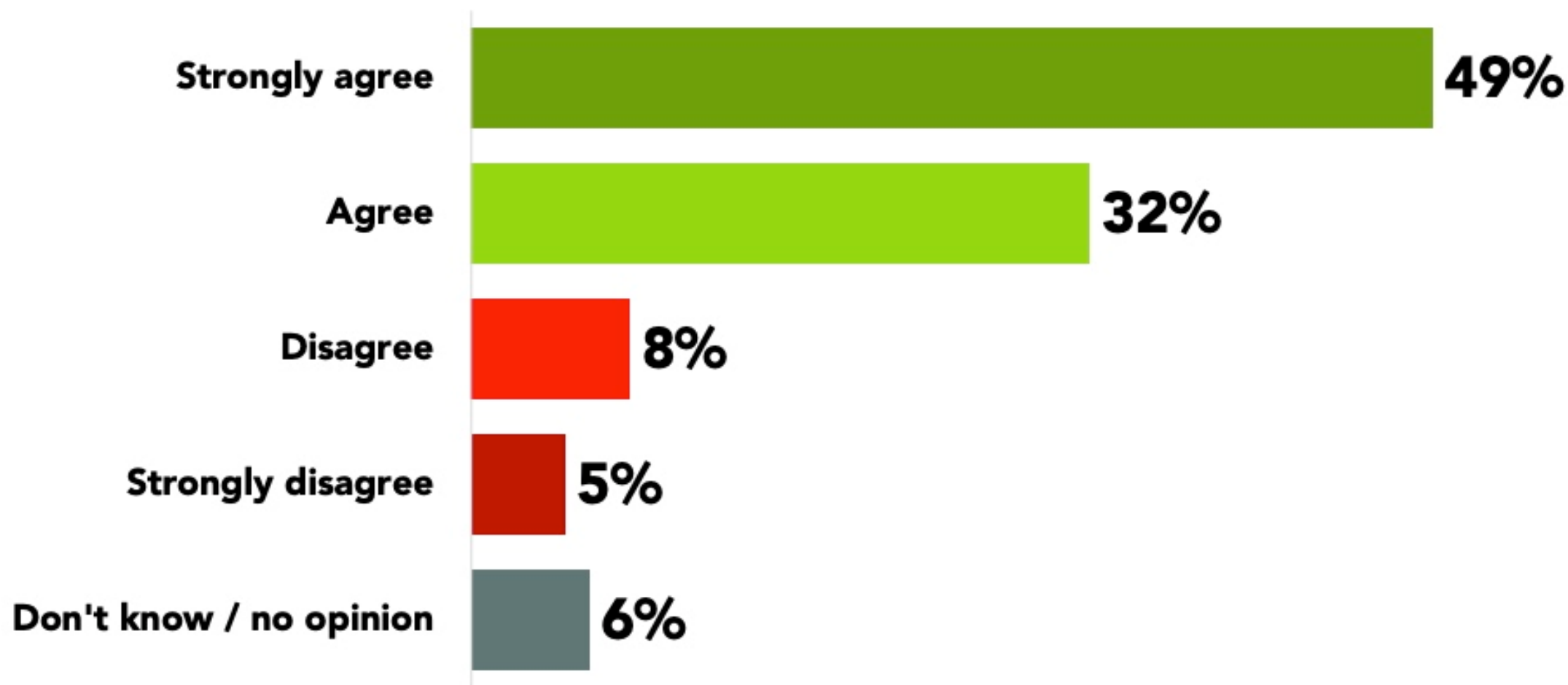
**ABACUS DATA**



# CLIMATE CHANGE EMERGENCY

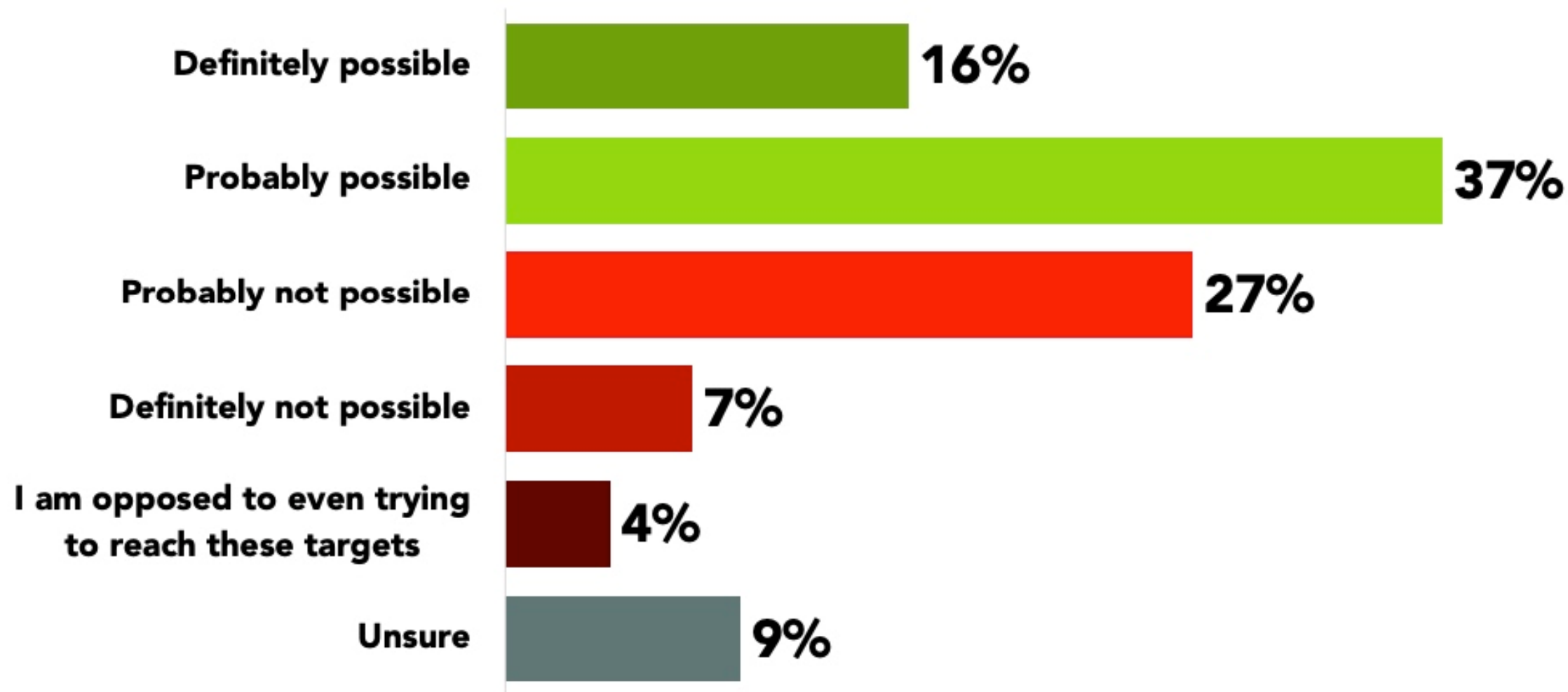


# CLIMATE CHANGE REPRESENTS A MAJOR THREAT TO THE FUTURE OF OUR CHILDREN AND GRANDCHILDREN



How much do you agree or disagree with the following statement: Climate change represents a major threat to the future of our children and grandchildren?

# POSSIBILITY OF REACHING RECOMMENDED GHG TARGETS



The United Nations Intergovernmental Panel on Climate Change (the world's top climate scientists) recently issued a report warning that carbon pollution – global greenhouse gas (GHG) emissions – must be cut in half by 2030, and that the world must be carbon-zero by 2050. Do you think it is definitely possible, probably possible, probably not possible, or definitely not possible for



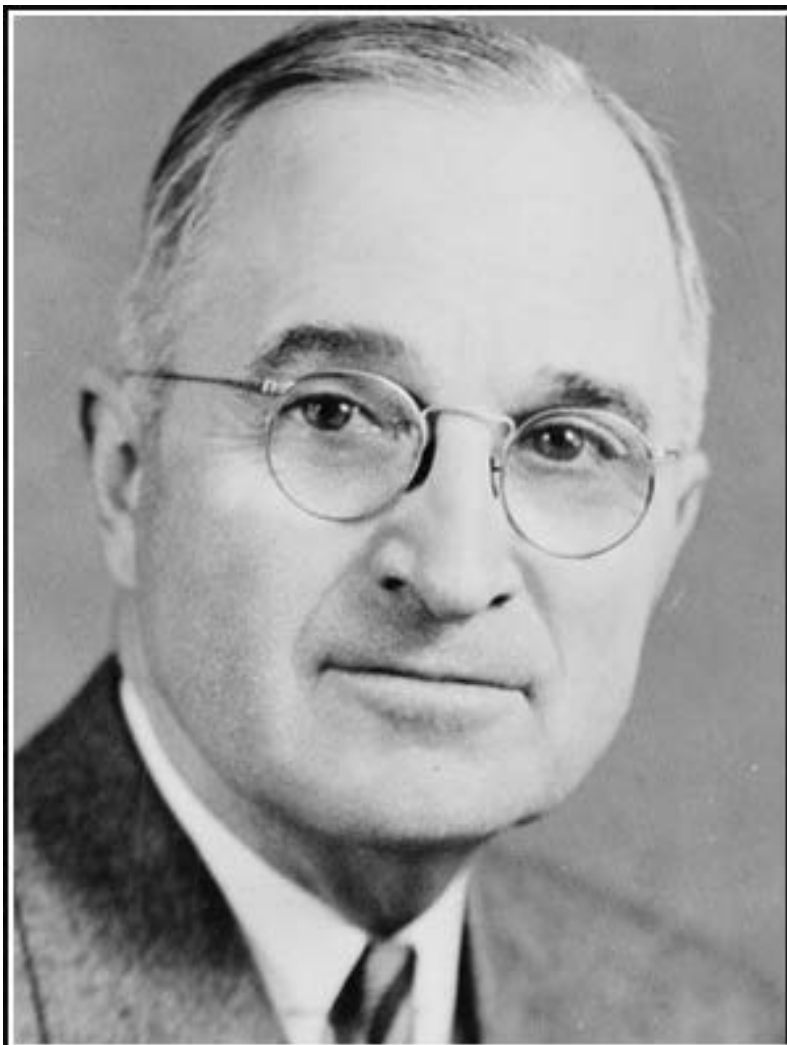


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Ok, let's act!

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Imperfect action beats perfect  
inaction every time.

— *Harry S. Truman* —

AZ QUOTES

## Action

- Think 7 generations ahead in our decisions and actions
- Collaborate with Indigenous and local, regional and national groups, organizations and initiatives
- Electrification of everything, retrofits in all areas, no more “fossil gas” for new homes
- Ongoing training for all staff in adopting a climate lens for all decision making
- Get everybody on board
- Take leadership in the community and engage/mobilize the public

## More Action

1. Spend what it takes to win
2. Create new institutions to get the job done
3. Shift from voluntary to mandatory actions
4. Tell the truth about the severity of the crisis and communicate the urgency
5. Leave no one behind
6. Indigenous leadership and rights are essential to winning

# Actions: Climate Justice

## 6 ACTION AREAS

The following section outlines a list of key action items organized into six action areas that can inform and guide municipal governments towards climate justice.



INTEGRATE CLIMATE JUSTICE INTO PLANNING AND POLICY



CONDUCT MEANINGFUL AND INCLUSIVE ENGAGEMENT



EMBED CLIMATE JUSTICE AND BUILD CAPACITY INTERNALLY



PARTNER AND COLLABORATE



ENSURE ACCESS TO BASIC GOODS AND SERVICES

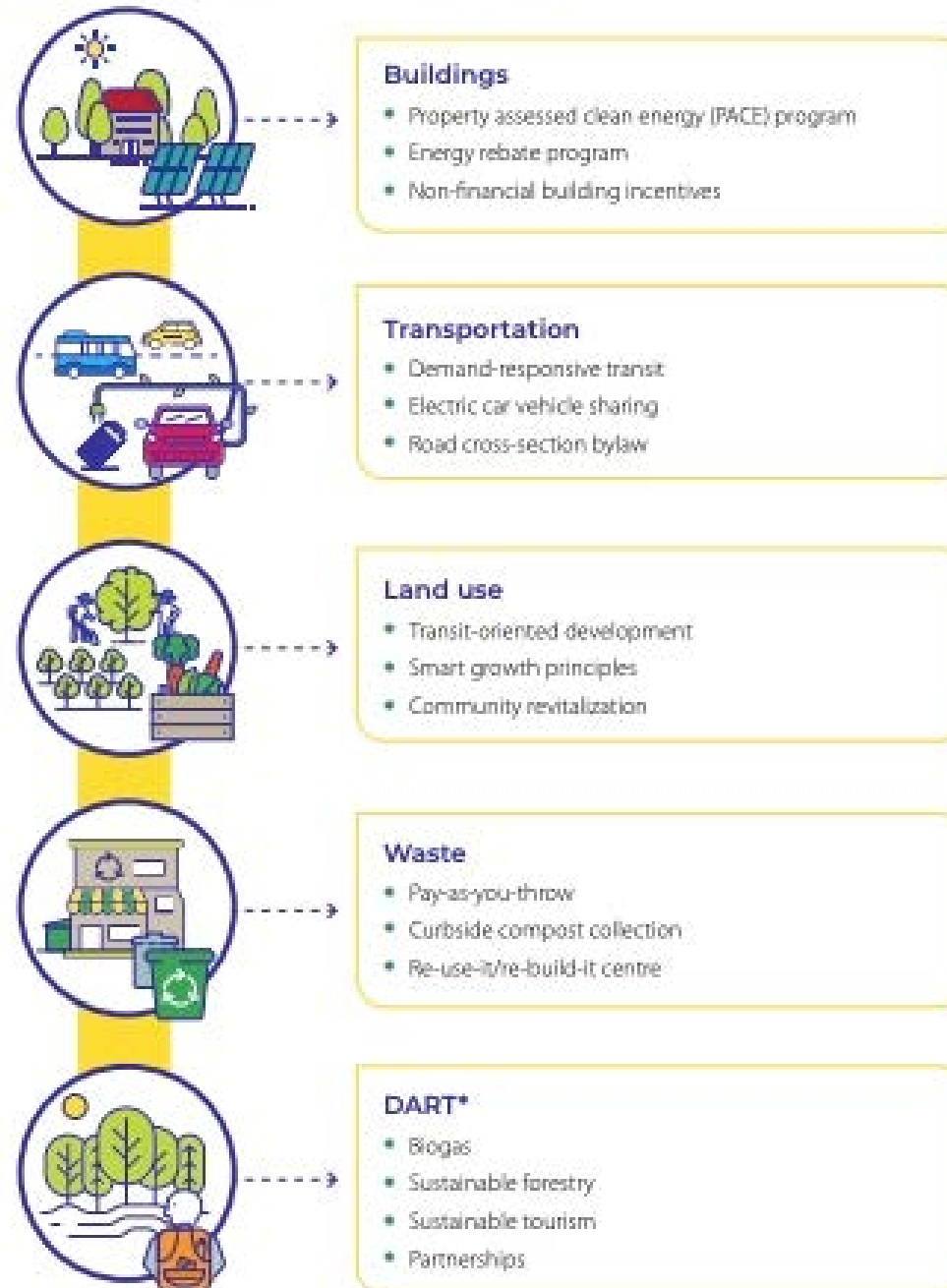


RAISE AWARENESS AND AMPLIFY



# FCM-ICLEI SMALL AND RURAL COMMUNITIES CLIMATE ACTION GUIDEBOOK

**Figure 1:** Climate action in five key sectors



*\*Development of agriculture, resources and tourism*

## Maintenance

- Continue to review what works, what doesn't and adjust strategies
  - Review, how we are doing, reaching set targets
  - Refocus “climate lens” as realities change
  - Improve actions and leadership in the community
  - Keep up do date with research and our partners

# Wir sind Stadtwandel

Konstanz fürs Klima



## Handlungsfeld Entsorgung

2020 in Konstanz

## Unsere Vision

### Rund um den Müll

**15.000t**

Restmüll wird verbrannt

Etwa 15.000 t konstanzer Restmüll werden pro Jahr in der Müllverbrennungsanlage in Weiskirchen (Saar) verbrannt. Laut Fachrichtlinie Verbrennungsanlage Thüringen verursacht eine Tonne verbrannter Restmüll ggf. eine halbe Tonne CO<sub>2</sub>-Emissionen. Wärme aus dem Verbrennungsprozess wird in Wärme- oder Kälteanlagen genutzt, um die Produktion von z. B. Papier und Karton zu ermöglichen.

### Rund ums Abwasser

**Abwasser-Wärme nutzen**

In verschiedenen Gebäuden - darunter Wohngebäude am Petershausen Bahnhof - wird bereits Wärme aus dem Abwasser zum Heizen genutzt. Außerdem betreiben die Entsorgungsbetriebe mit dem in der Schlammbehandlung gewonnenen Klärgas zwei eigene Blockheizkraftwerke, um von zwei eigenen Blockheizkraftwerken und durch die Kläranlage deckt.

**Vom Müll zum Rohstoff**

Durch eine bessere Mülltrennung und eine höhere Recyclingquote ist das Restmüllvolumen stark reduziert. Energie und Rohstoffe aus dem verbleibenden Restmüll werden je nach technischer Möglichkeit noch besser genutzt.

**Abwasser als Ressource**

Die Entsorgungsbetriebe nutzen das Potenzial von Abwasser und arbeiten an eigenen Ressourcen. Wo möglich, kommen Klärschlamm, Klärgas, Klärschlamm und Klärgas zur Wärmegenerierung zum Einsatz. Mit dieser Wärme aus dem Abwasser zurückgewonnen und genutzt werden kann.

## Mach mit! JEDER Beitrag zählt.

- ▶ Vermeide Müll, indem du z. B. unverspacht einkaufst.
- ▶ Biotonne für organische Abfälle, die kompostierbar sind.
- ▶ Trenne deinen Müll so, dass möglichst wenig Restmüll übrig bleibt.
- ▶ Schau dir bei einer Führung der Entsorgungsbetriebe Konstanz (EBK) an, was mit dem eingesammelten Müll passiert.

## Werde aktiv!

- ▶ Das Thema Abwasser bietet eine Ausnahme: Hier können Verbraucherinnen, abgesehen von der gesetzlichen und verbindlichen Menge an Wasser, wenig selbst beeinflussen.
- ▶ Trotzdem gilt: Wer Wasser spart und insbesondere mit warmem Wasser sorgsam umgeht, produziert nicht nur weniger Abwasser, sondern vor allem weniger Treibhausgasemissionen.

Weniger Infos zum Klimaschutz in Konstanz auf [www.konstanz.de/klima](http://www.konstanz.de/klima)



Wir sind Stadt

Konstanz fürs Klima



### Worum geht es im Handlungsfeld „Stadtplanung und Mobilität“?

Stadtplanung und Mobilität hängen eng miteinander zusammen, weil es insbesondere in Städten darum geht, wie wir begrenzten Raum am besten nutzen können. Nur wenn die Wege kurz sind, fahren mehr Menschen mit dem Rad oder gehen zu Fuß. Je weniger Menschen ein Auto besitzen, desto mehr Platz kann für andere Freizeitmöglichkeiten als das Fahren zur Verfügung gestellt werden.

Unsere Klimaschutzziele für Konstanz können wir nur gemeinsam erreichen! Jede einzelne Entscheidung für den Klimaschutz bringt etwas.

Je mehr von uns mitmachen, desto größer wird auch der Druck auf die politischen Ebenen, die Rahmenbedingungen so zu verändern, dass sich ein klimafreundliches Leben für alle und in allen Bereichen „zählt“.

Lesit auf mehr Informationen!  
[www.konstanz.de/stadtwandel](http://www.konstanz.de/stadtwandel)



# 20%

CO<sub>2</sub>

unseres Klima-Fußabdrucks entstehen durch die Mobilität\*

Querschnittswert 2,38 t pro Kopf pro Jahr

insgesamt 11 Tonnen CO<sub>2</sub> im Jahr pro Einwohner

\*Quelle: Mobilitätswende-Konzept, Prognosewerte basierend auf dem durchschnittlichen CO<sub>2</sub>-Fußabdruck im deutschen Durchschnitt. Stand: Ende 2019, Berlin.









Yes, Together We Can!