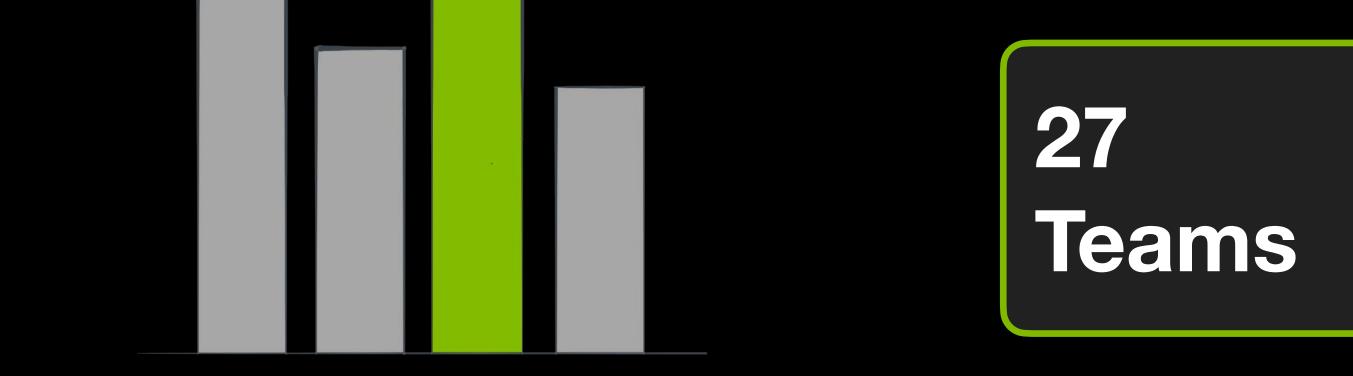


CHALLENGE



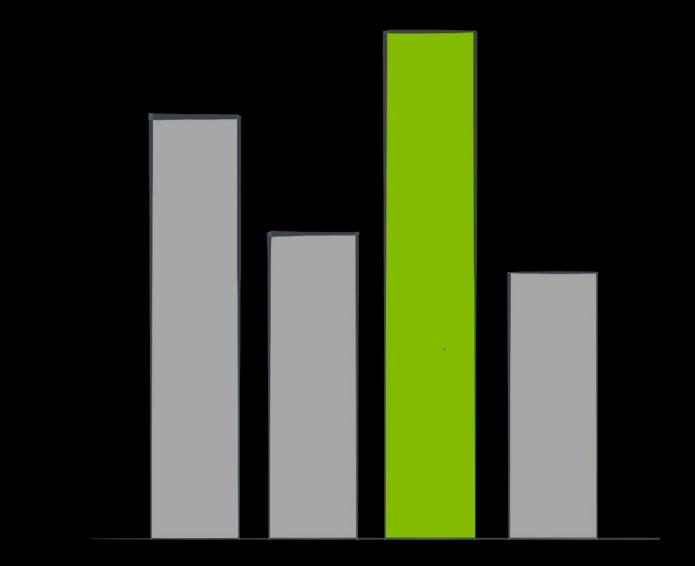
INFOGRAPHIC ROUND: VIEWERS CHOICE

Using visuals, teams will tell their story to **build curiosity for their presentations**. Vote for your favourite infographic and the team with the highest vote count will win \$150!

How to vote? Voting link on last page

Team names will appear on the page **before** the infographic!

Blue Green



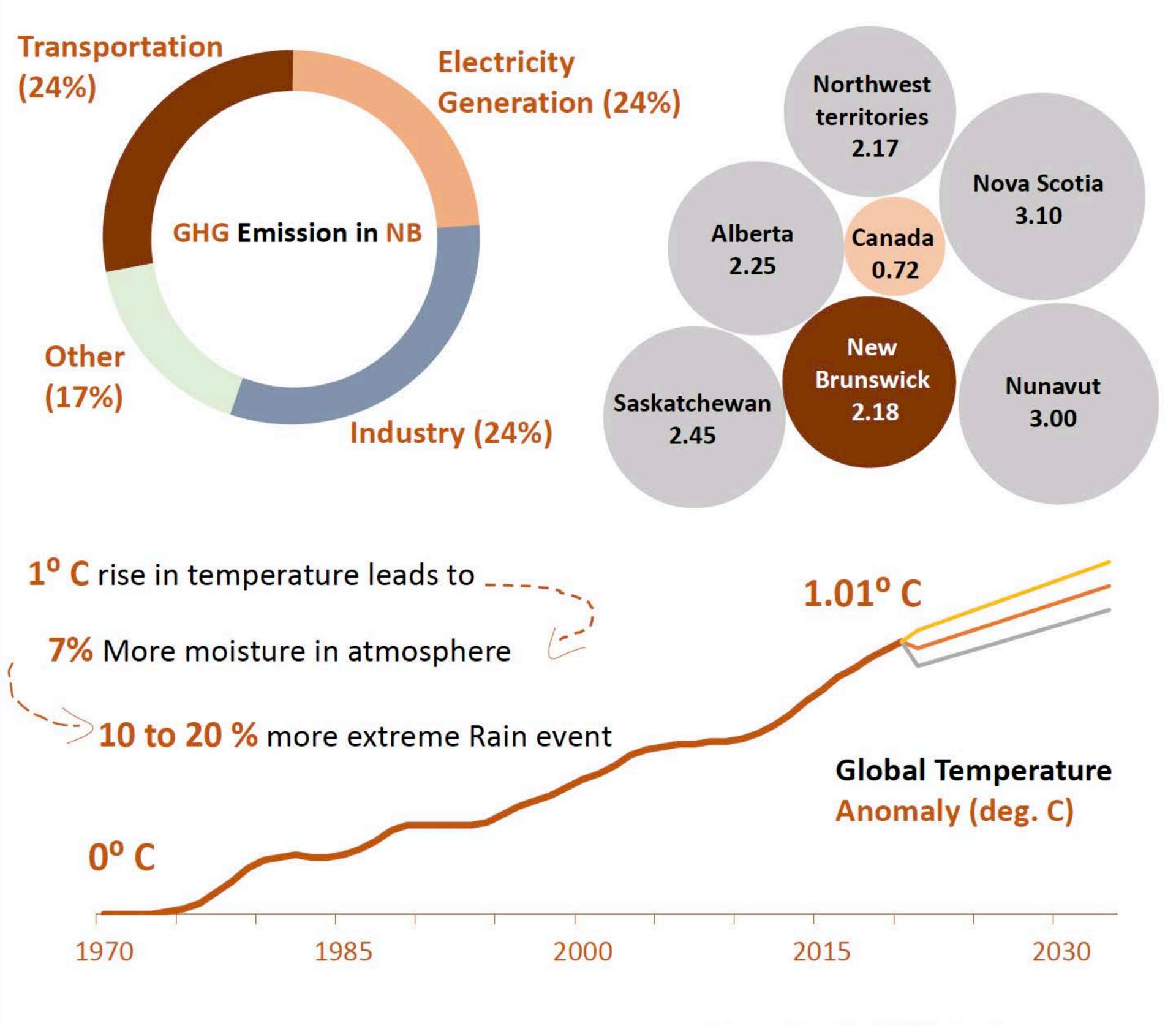
Team 1/27

CLIMATE CHANGE HOAX OR A REAILTY ? 2020 WAS THE HOTTEST YEAR GLOBALLY SINCE LATE 19TH CENTURY

"... A man - made disaster of global scale ... Climate Change "

NB Lost 21 % forest area from 2001 to 2020

GHG emission per Capita





David Attenborough

Our Goal: 47% Reduction in

Call to action

Need to introduce electric vehicle for 50

% NB's Rural population

Need to explore newer renewable

energy sources

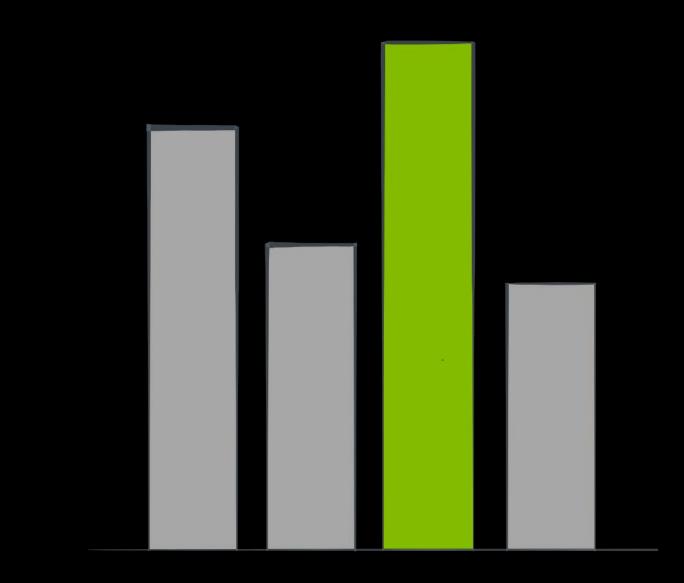
Restoration of lost forest land

NB emission by 2030 Compared to 2005 levels

Team - Blue-Green

- Data Source
- https://www2.gnb.ca/
- UNDERSTANDING CLIMATE CHANGE IN SAINT JOHN
- https://climate.nasa.gov/

Build Together



Team 2/27



AND COMMUNITIES

Key Findings

Costs of building units are rising. Gap between demand and supply. Less Vacancies for Buyers and Renters.

Issuing of Bill permits is consistent but not increasing substantially Public transit issue.

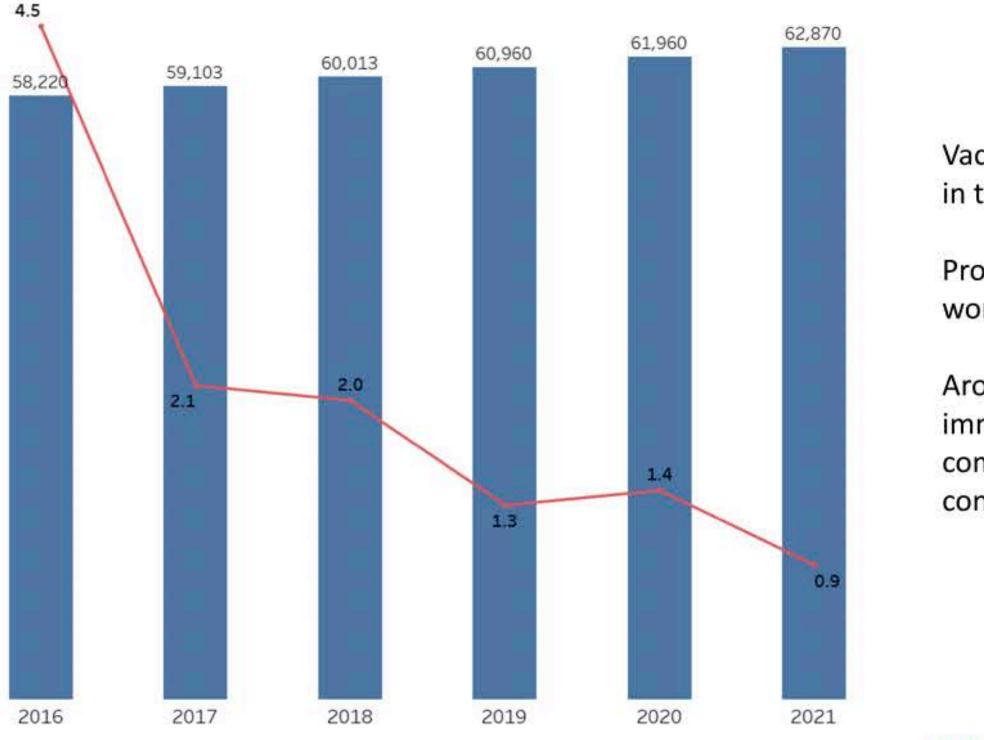
Affordable housing is not enticing and full of roadblocks.

Difference between people's need and the availability in the market.

Housing Crisis in Fredericton, NB

Team Build Together

Is the Percentage of Vacancies meeting the Fredericton Population Demands?



St. John

Buyers' Market? Renters' Market? Neither.

Rent Prices (2011 vs 2020)

Moncton

Fredericton

755

The number of Build Permits Issued in NB (Till August)

Vacancies down to 2% in the province

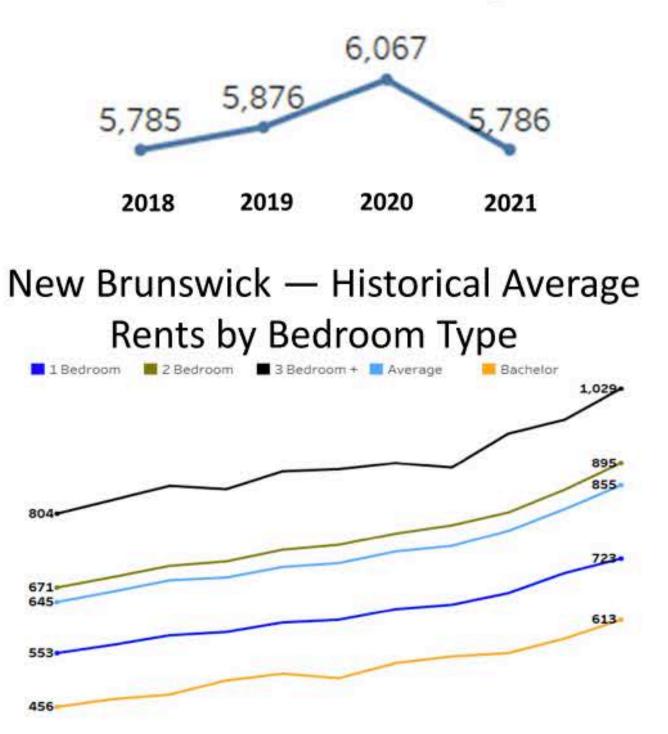
Problem is only getting worse. Why?

Around **10k** immigrants won't come to NB if crisis continues, reports CBC

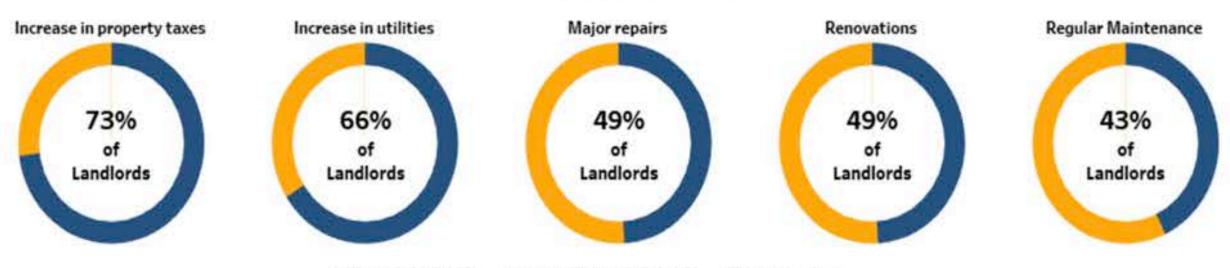
Call to Action

Lowering the tax and cost of the material.

- Goal of 'One Call Solution' for the tenancy matters.
- Public Transit infrastructure. Invest in a business plan for a provincial non-profit rural workforce housing development corporation. REVIEW AND REVISE THE NEW BRUNSWICK RESIDENTIAL TENANCIES ACT



Why are Landlords Reluctant to Build in NB?



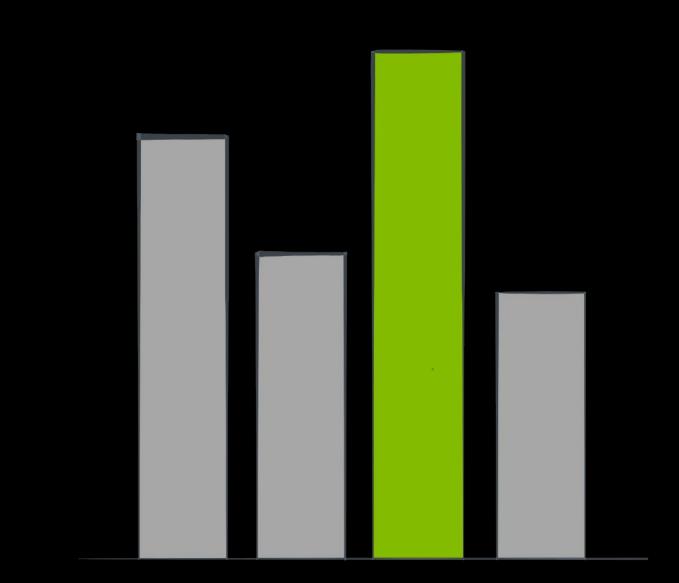


INC. N. R. R. R.

Review of the Rental Landscape NB 2019-2022 New Brunswick Action Plan The Canadian Real Estate Association Statistics

@Moe_Gams – @MohitKumar96 - @cvssasha_

CivicTech Fredericton



Team 3/27

Bullying & Exclusion Effects on Mental Health

Short Term Effects

Anxiety Depression Low self-esteem Difficulty sleeping Self-harm Suicidal thoughts

Long Term Effects

Generalized anxiety Panic disorder Agorophobia Depression Loneliness School avoidance

In 2019, 38,982 students responded to the NB Student Wellness Survey. What's Happening in Our Schools?



Be part of the solution #DoBetter4Me

Data Sources

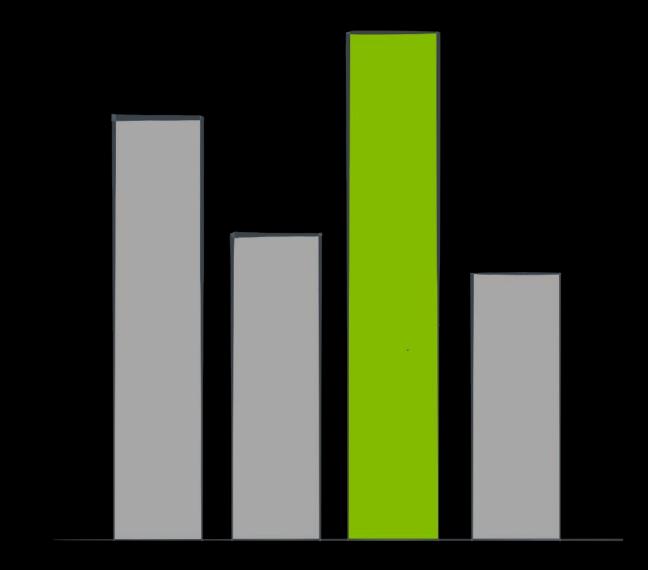
New Brunswick Health Council - Student Wellness Survey - https://nbhc.ca/all-publications/nbsws-grades-6-12-2018-2019 *JAMA Psychiatry: "Adult Psychiatric Outcomes of Bullying and Being Bullied by Peers in Childhood," "Association of Bullying Behavior at 8 Years of Age and Use of Specialized Services for Psychiatric Disorders by 29 Years of Age." *Journal of Children and Family Studies: "Cumulative Bullying Experiences. Adolescent Behavioral and Mental Health, and Academic Achievement: An Integrative Model of Perpetration. Victimization, and Bystander Behavior." *The Lancet "Adult mental health consequences of peer bullying and maltreatment in childhood: two cohorts in two countries." *National Institutes on Health: "The little known health effects of bullying." *PACER's National Bullying Prevention Center: "Bullying statistics." *StopBullying gov: "Effects of Bullying on Mental Health, "How to Prevent Bullying," "What Is Bullying?"





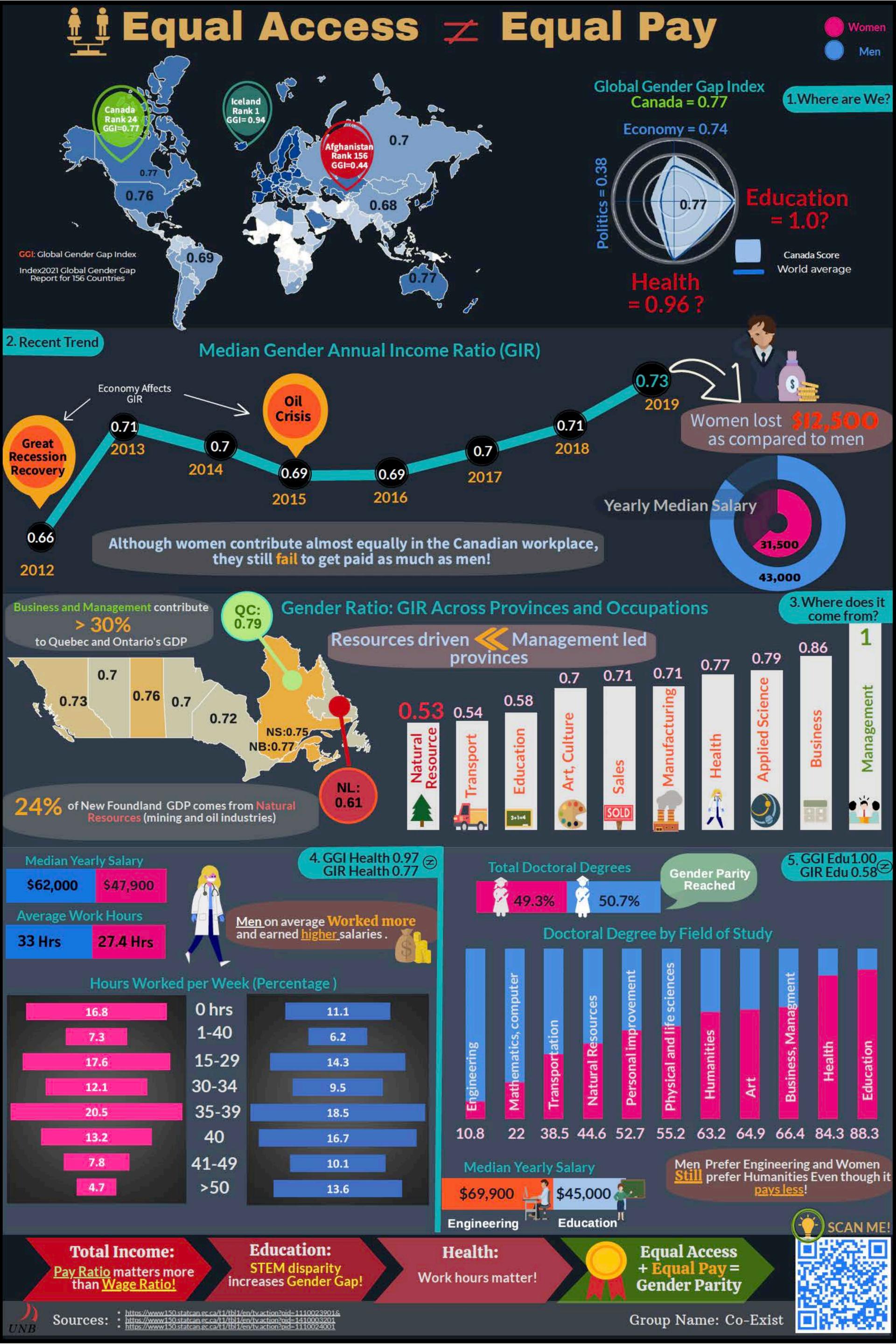




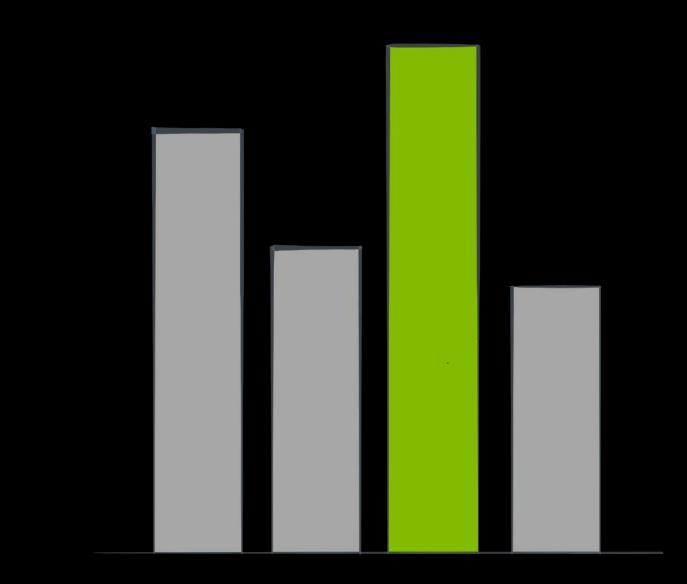




Team 4/27



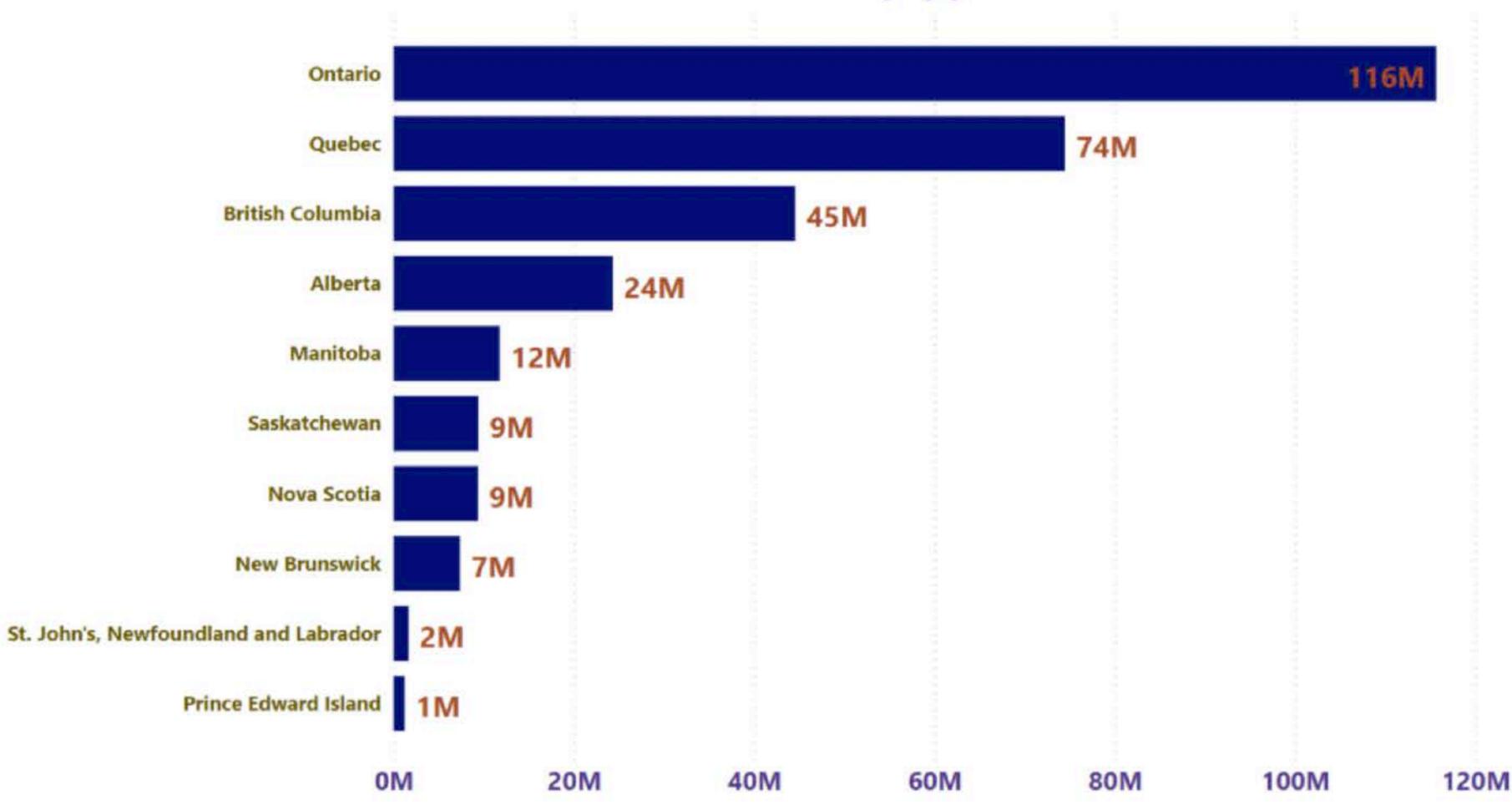




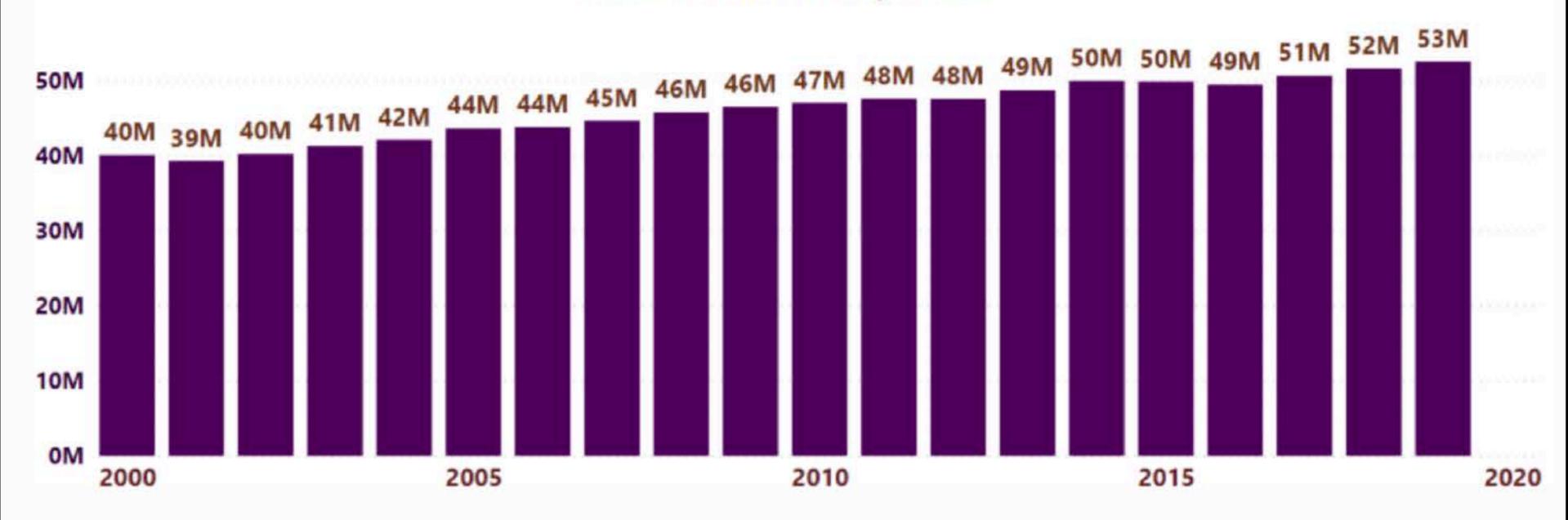
Team 5/27



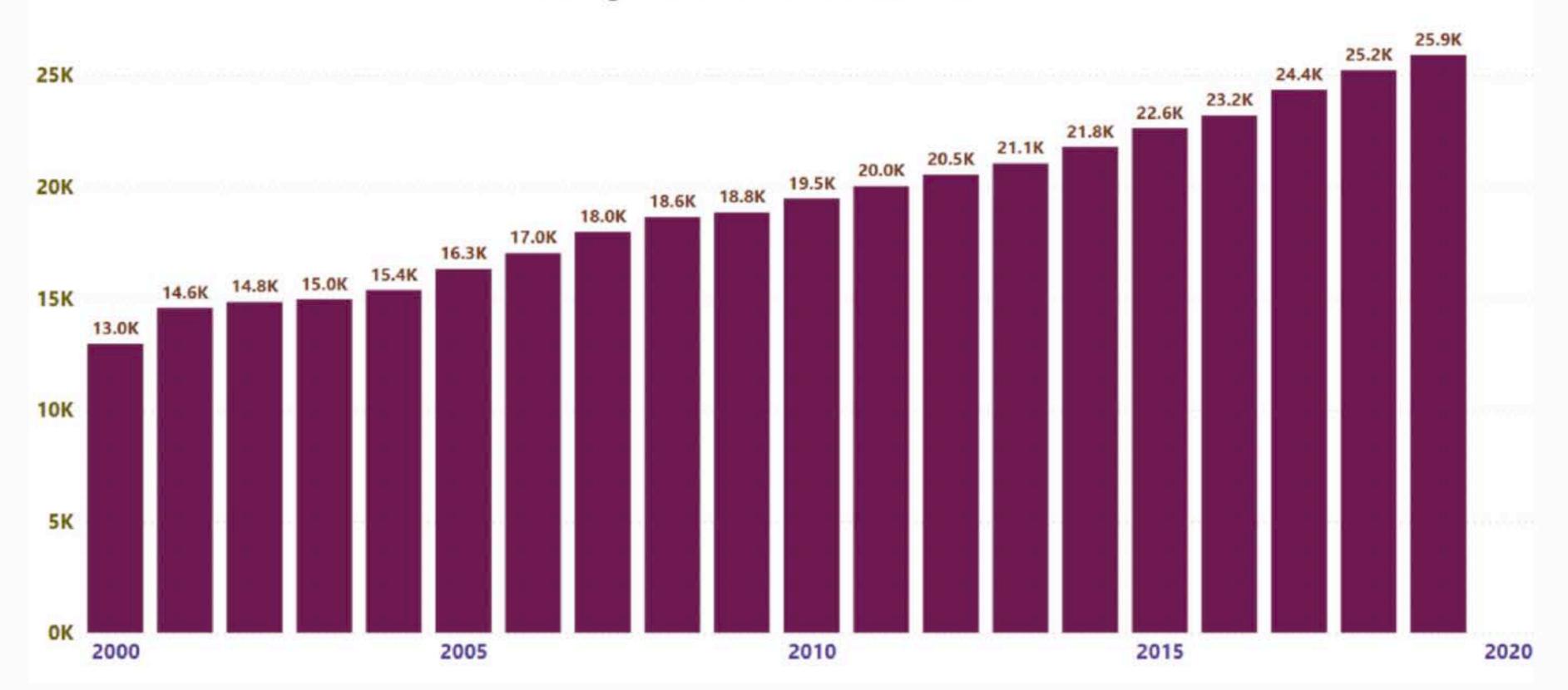
Number of Low Income family by provience



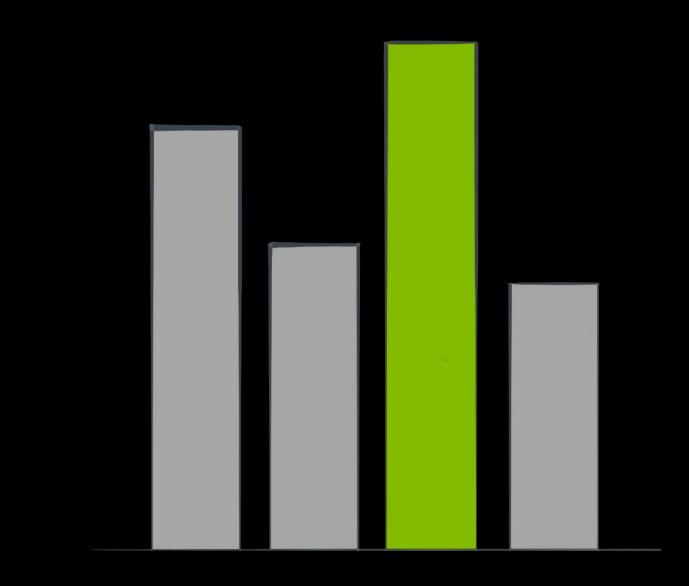
Number of Low-Income family Over time



Average After tax Low-Income Over time



Data Drivers

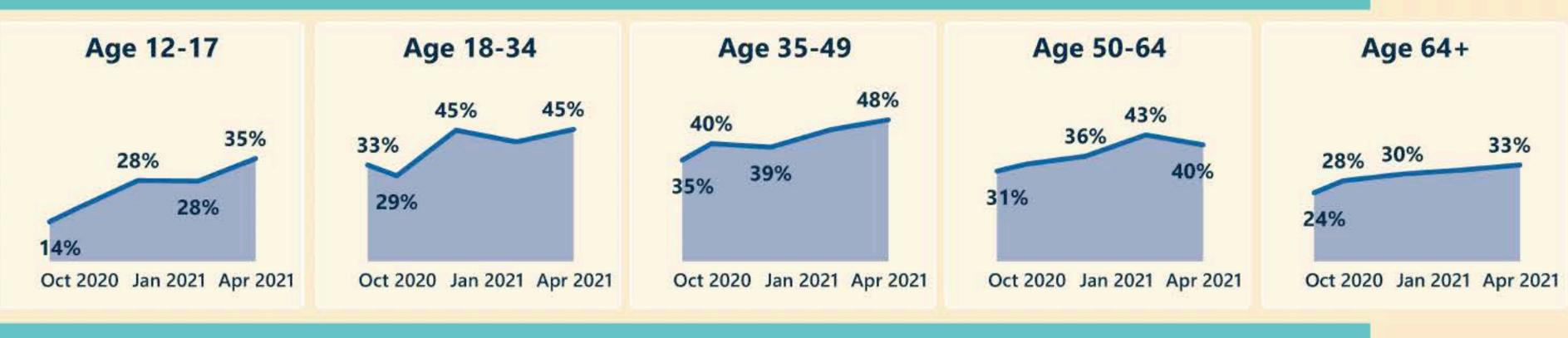


Team 6/27

Mental Health Consequences of COVID-19 in Canada Which age group's mental health is most impacted during a pandemic?

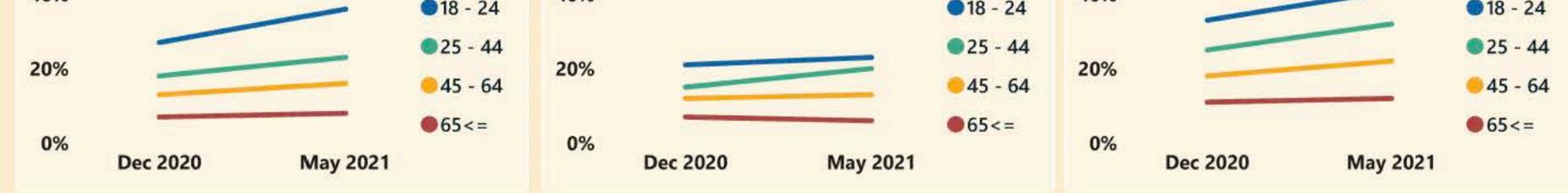


Mental health worsened through the pandemic*

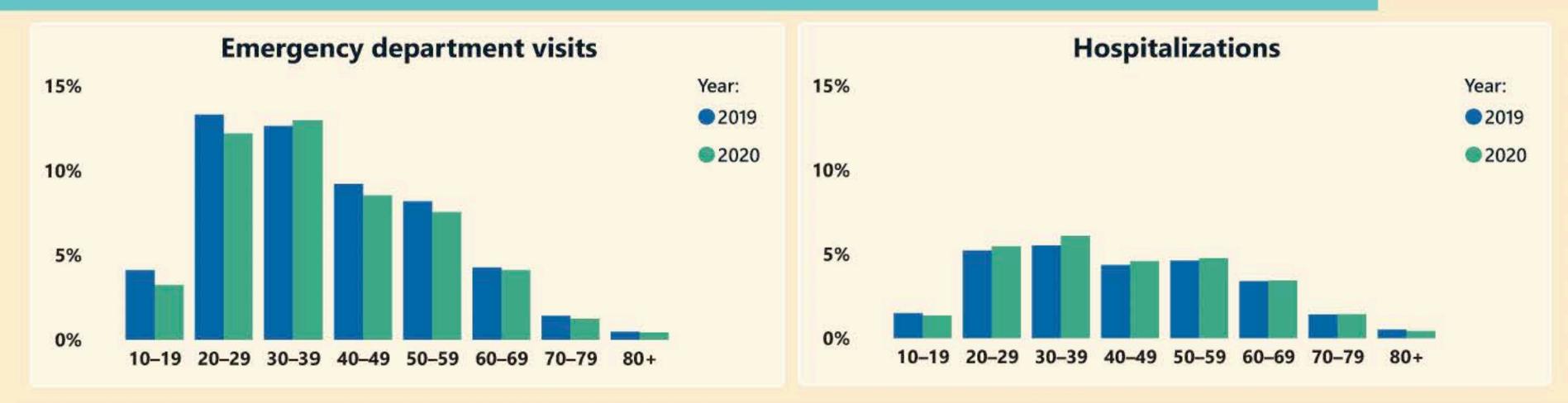


Symptoms of anxiety and depression**

and the second second second	essive disorder with	General anxiety disorder with	With at least one disorder related to				
	r severe symptoms	moderate or severe symptoms	symptoms of anxiety or depression				
40%	Age:	40% Age:	40% Age:				



Emergency department visits and hospitalizations due to substance abuse***



Based on data gathered prior to and over the course of the COVID-19 pandemic, the mental health of individuals aged 18 to 49 were most affected. In addition, individuals aged 30 to 39 had the highest increase in emergency visits and hospitalizations due to substance abuse. Findings reflect that the COVID-19 pandemic poses higher risk of mental health issues among young adults.

<u>Recommendations:</u> There should be structures in place to minimize the mental health consequences of a pandemic and to promote the general well-being of young adults. Public heath restrictions should be tailored to balance the risks of physical and mental health among age groups. Mental health and substance use services should be made available and accessible to young adults during a pandemic.

* Based on data from Canadian Community Health Survey relating to perceptions of Canadians' mental health.

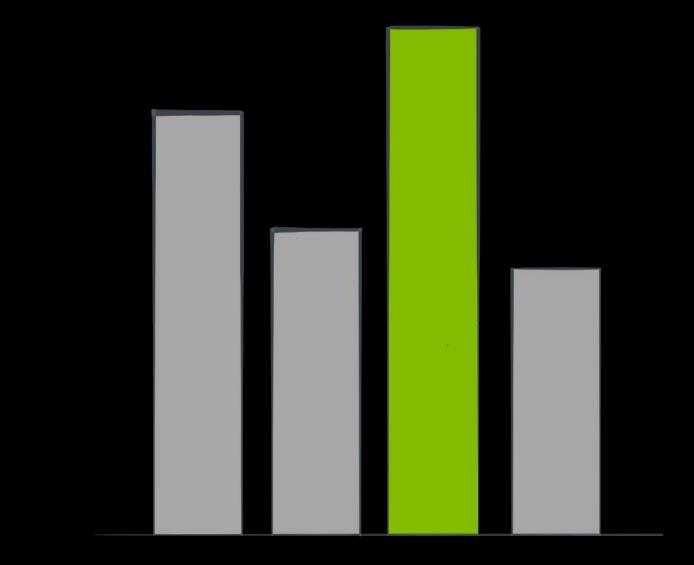
** The Survey on COVID-19 and Mental Health used symptom-based screening tools to determine if an individual is experiencing moderate to severe symptoms of anxiety and depression. The symptoms of depression include persistent sadness, lack of energy and agitation; the symptoms of anxiety include worry, fear and constant nervousness.

*** Abuse of substance that include alcohol, cannabis, cocaine, opioids, stimulants, and depressants. Substance use can be a coping mechanism during a crisis. Sources:

Canadians' health and COVID-19, by age and gender - Open Government Portal (canada.ca)
 Symptoms of anxiety and depression during the COVID-19 pandemic - Canada.ca
 Unintended consequences of COVID-19: Impact on harms caused by substance use | CIHI
 Photo credits: slidesgo.com



Data Huskies

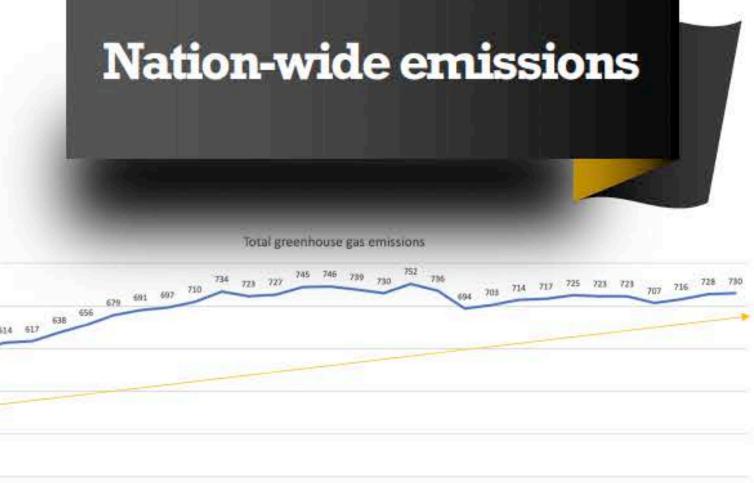


Team 7/27

Greenhouse Gases Emission (GHGs) in **Canada**





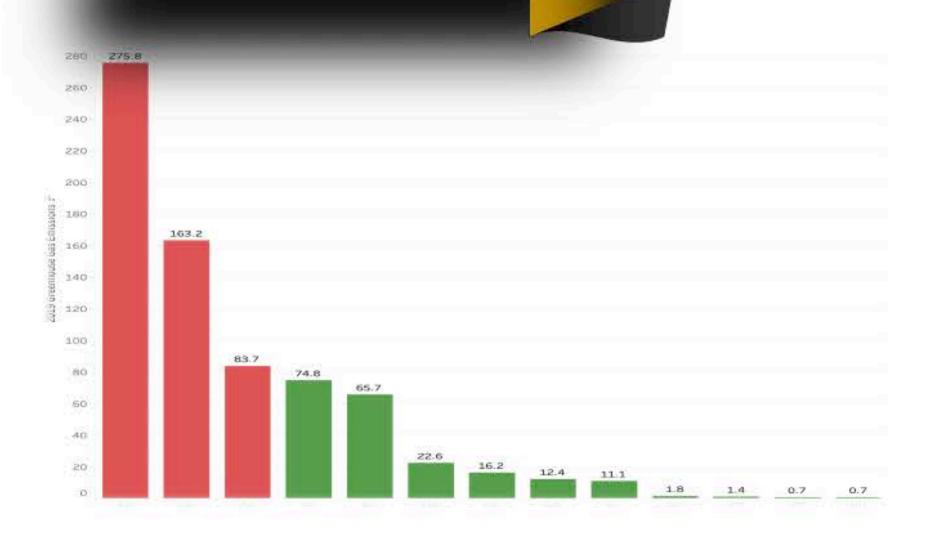


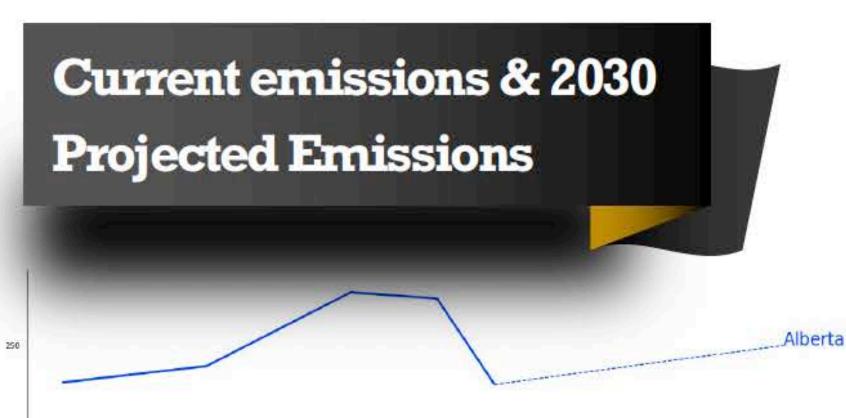
1990 1001 1901 1901 1903 1908 1905 1906 1907 1908 1999 2000 2001 2002 2003 2004 2005 2005 2007 2008 2009 2010 2011 2012 2013 2014 2015 2015 2015 2017 2018 2019



New Zealand

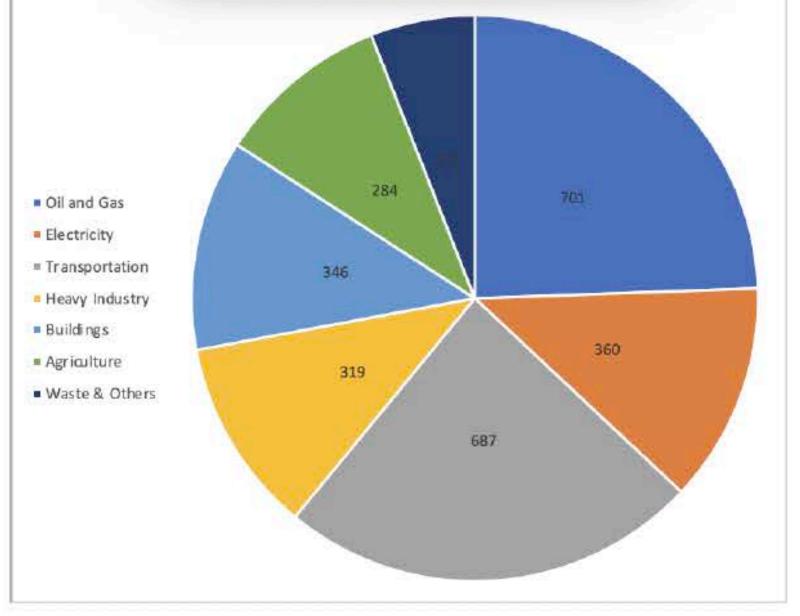
Region-wide emissions

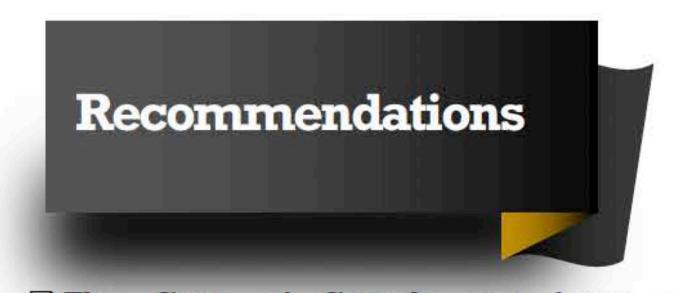




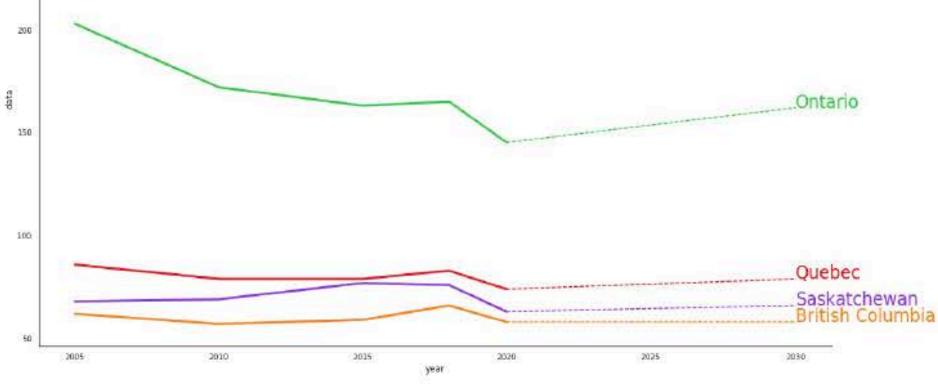
Major factors

GHG Emission Index from 2005 to 2018



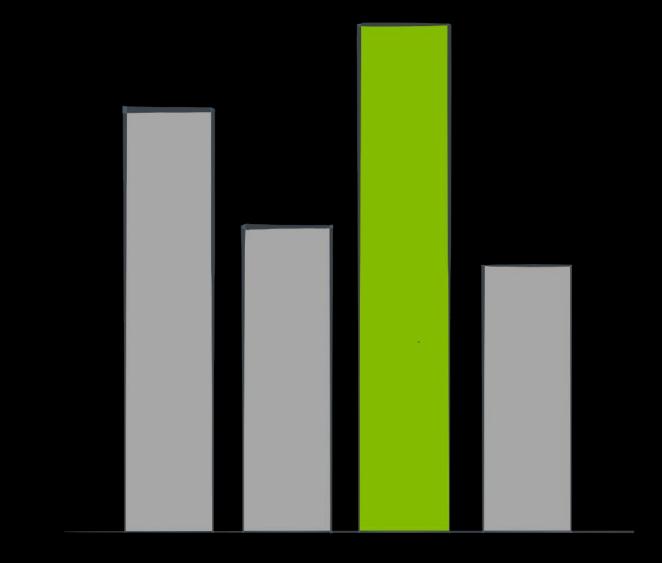


The Govt. of Canada can focus on devising strategies to reduce GHGs emissions in Western Canada (Alberta) and Central Canada (Ontario).



□ Since major sectors of GHGs emissions are Oil and Gas and Transportation, environment-friendly practices at industry-level and transportation-level should be strategized to combat the increase in projected emissions.

Created by Data Huskies



Data Knows

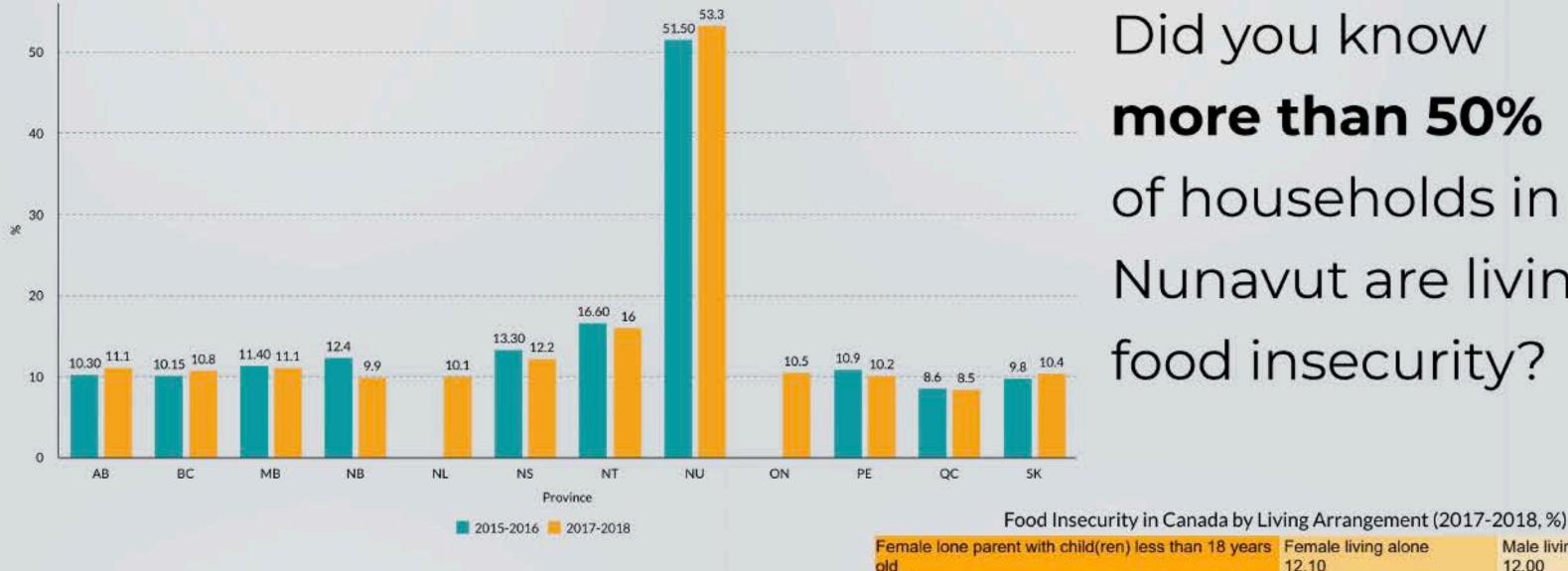
Team 8/27

ZERO HUNGER?

Food Insecurity Issue in Nunavut

Team: Data Knows

Proportion of Household Living with Food Insecurity by Province (2015-2016 vs. 2017-2018)



Did you know more than 50% of households in Nunavut are living with food insecurity?

Female lone parent with child(ren) less than 18 years Female living alone old 12.10 25.10

Male living alone 12.00

In Canada, 25.1% of single mothers and their child(ren) are suffering from food insecurity.



Food Insecurity in Nunavut by Living Arrangement (2015-2016)

Male living alone (14.38%) 📕 Couple with child(ren) less than 18 years old (23.28%) 🞆 Other living arrangements (27.03%) Female lone parent with child(ren) less than 18 years old (35.31%)

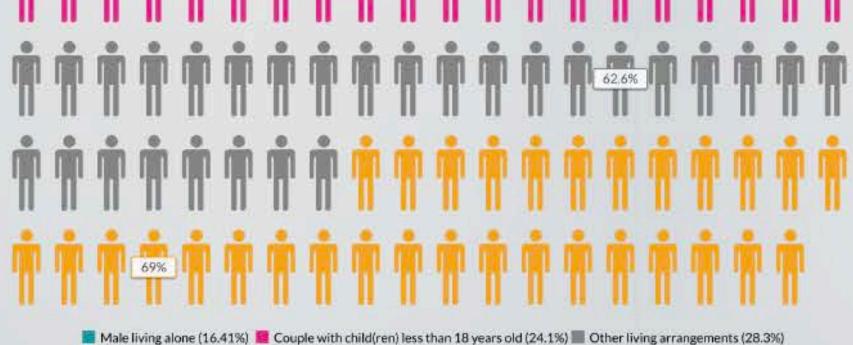
In Nunavut, although the status of single mothers had improved, still nearly 70% of single mothers struggle to put food on the table.

Other living Couple with Couple child(ren) less than arrangements no Male lone parent with child(ren) less than 18 years children 9.30 18 years old old 7.30 3.40 16.30

Food Insecurity in Nunavut by Living Arrangement (2017-2018)

Zero hunger,

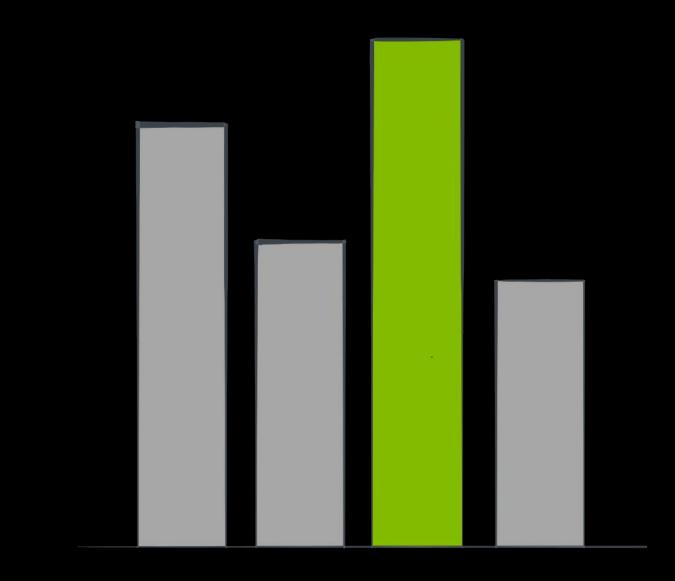
there is still a long way to go.



Female lone parent with child(ren) less than 18 years old (31.19%)

Data Source: Statistics Canada (2020). Household Food Security by Living Arrangement.

Data See Future



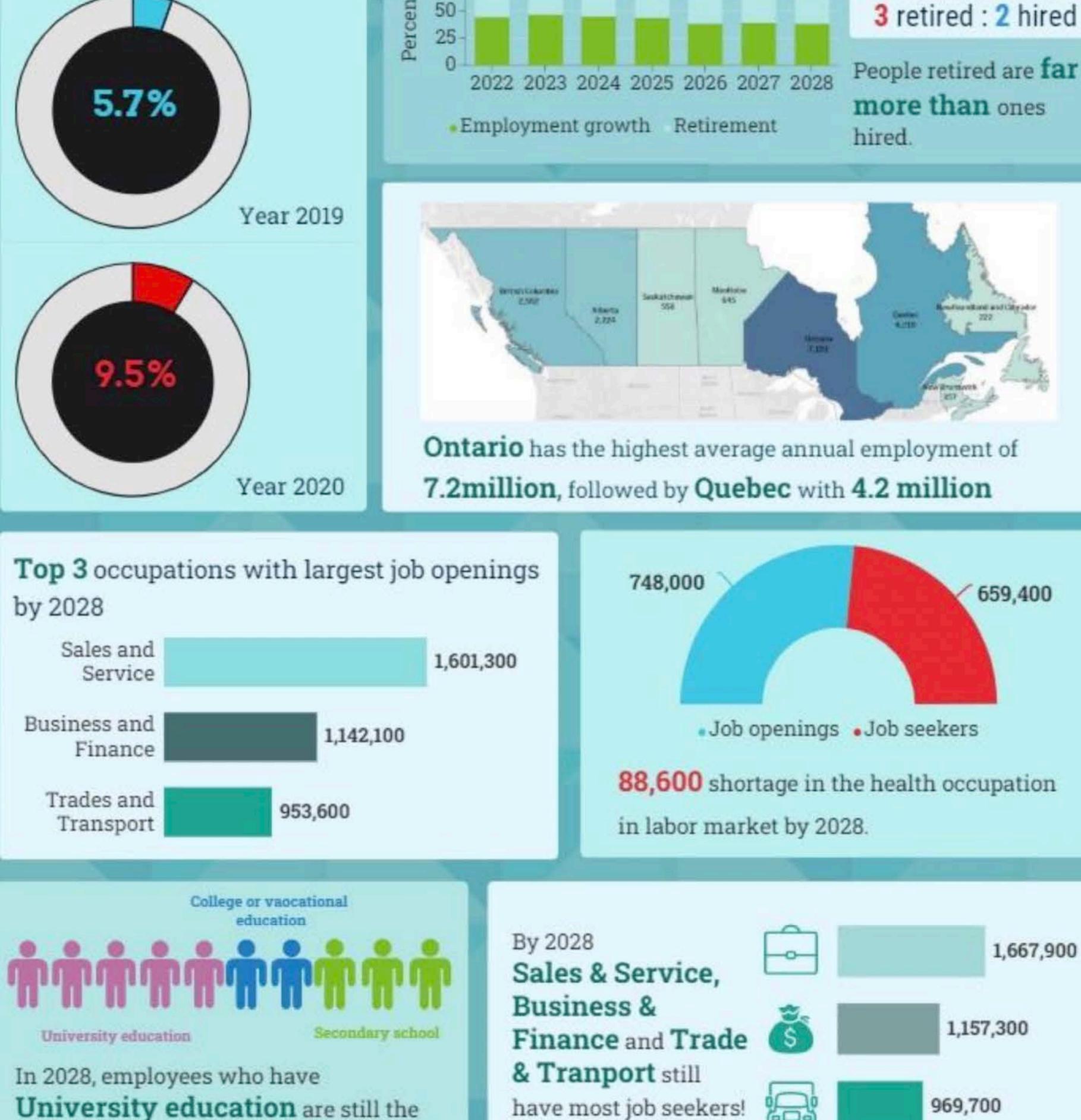
Team 9/27

Job openings = Job seekers? **Data See Future**





Unemployment Rate



969,700 have most job seekers!

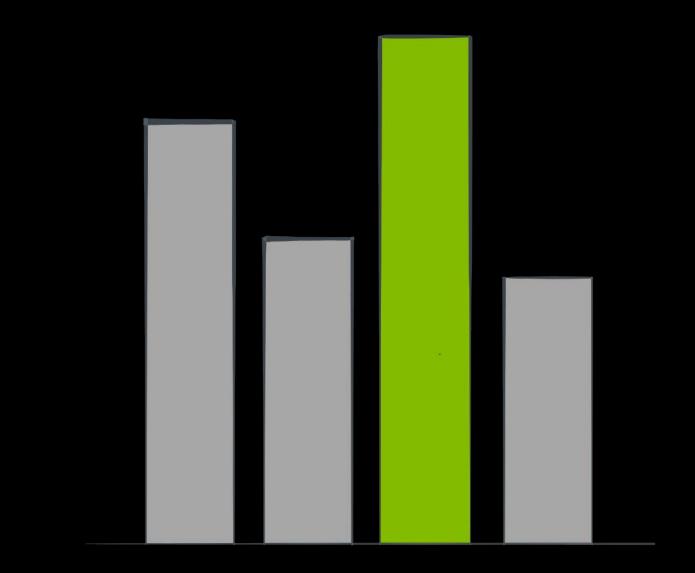


most popular one.

The shortage of jobs in the future labor market will focus on keywords about Technologists, Designers, Medical, Therapists and Engineers.

All above data source: governmental projection in 2016, retrieved from www.open.canada.ca

Data Storytellers

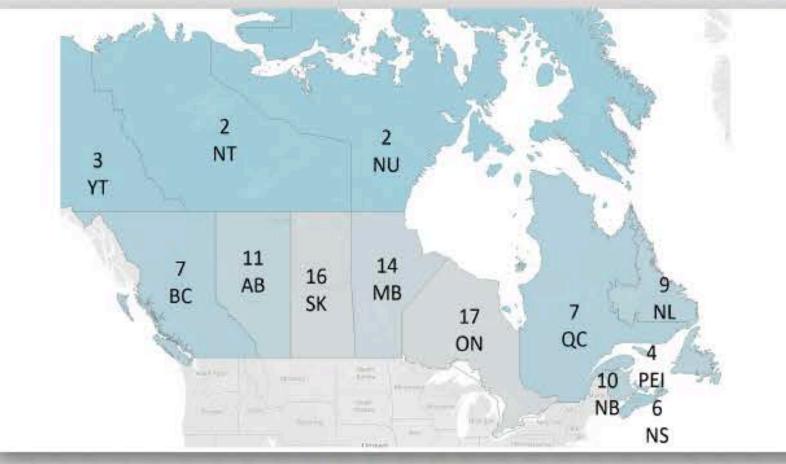


Team 10/27

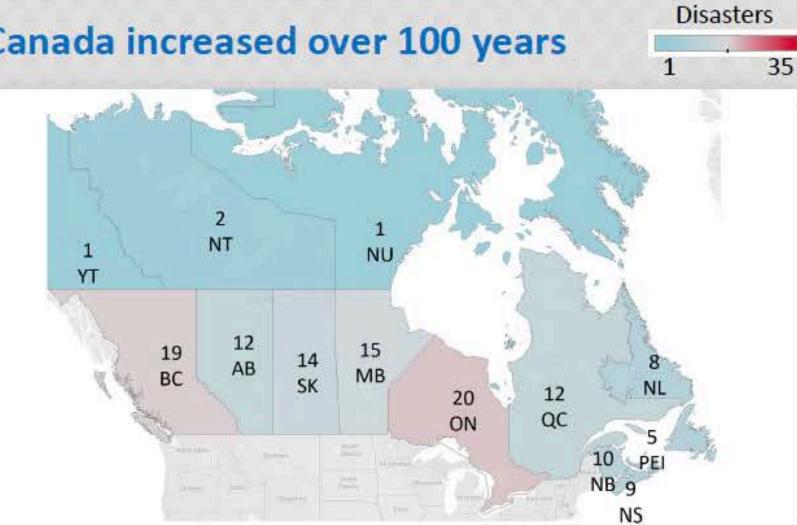
THINK GREEN SAVE THE EARTH

Climate Change: How Is Our Climate Changing?

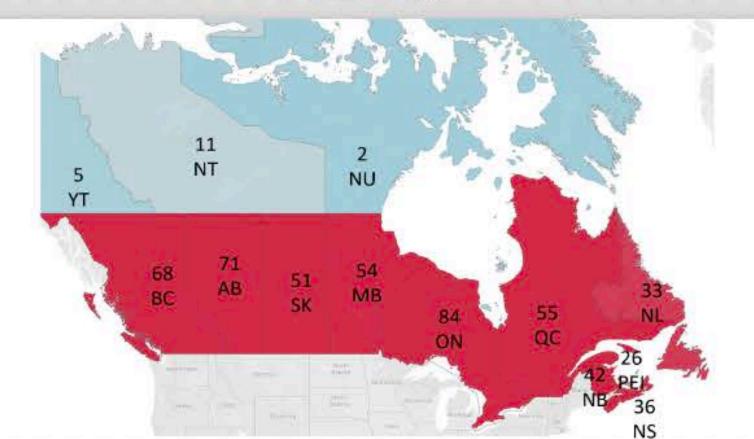
498%: number of Natural Disasters in Canada increased over 100 years

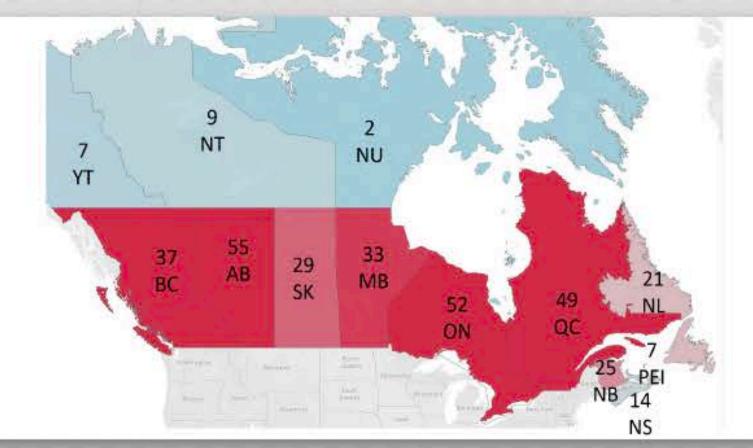


1917 - 1941



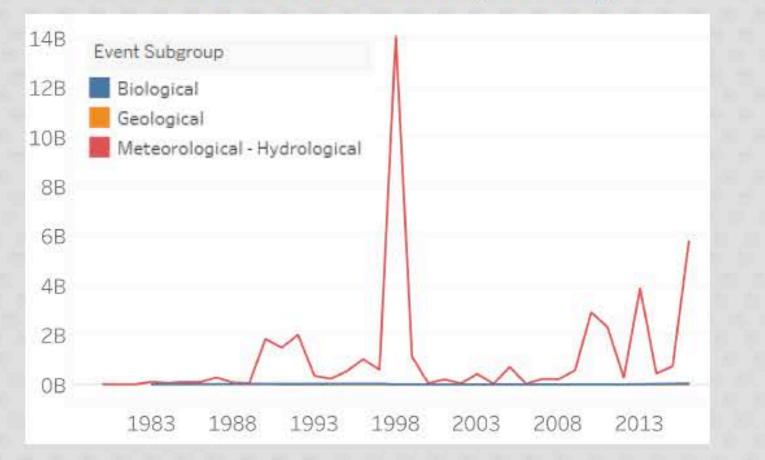
1942 - 1966





1967 - 1991

Estimated Total Cost (dollars)



New Brunswick Temperature Average (°C)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	
1951-1980	-9.5	-8.7	-3.2	3.1	9.7	15.1	18.3	17.3	12.7	7.2	1.4	-6.6	4.8	7
1981-2010	-10.1	-8.6	-3.2	3.5	10.1	15.3	18.4	17.8	13.1	7.0	1.1	-6.0	4.9	-

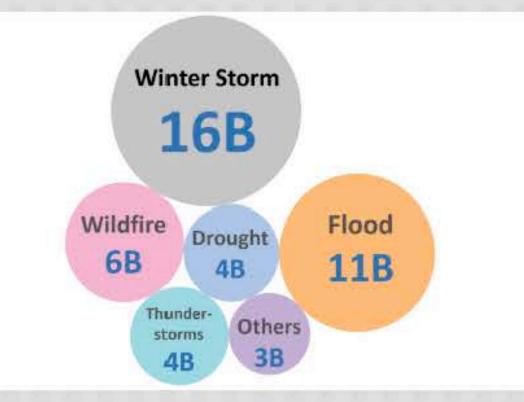


- From 1951-2010, the average temperature in New Brunswick is hotter. Snowfall has decreased, and rainfall has slightly increased over this time period.
- Over the last several years, Fredericton has had increased yearly average temperatures.

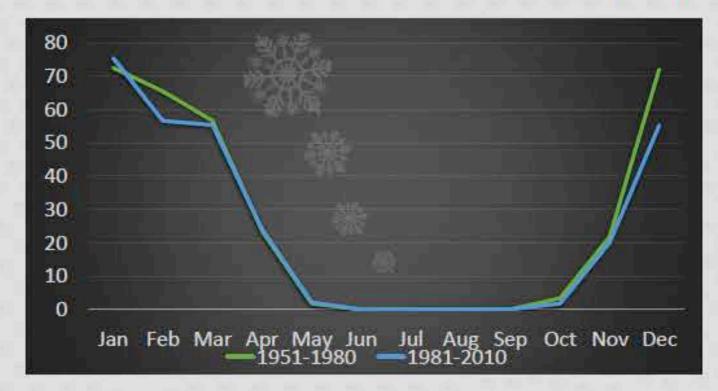
Fredericton Mean Temperature Average (°C)

1992 - 2016

Estimated Total Cost of Meteorological – Hydrological (dollars)

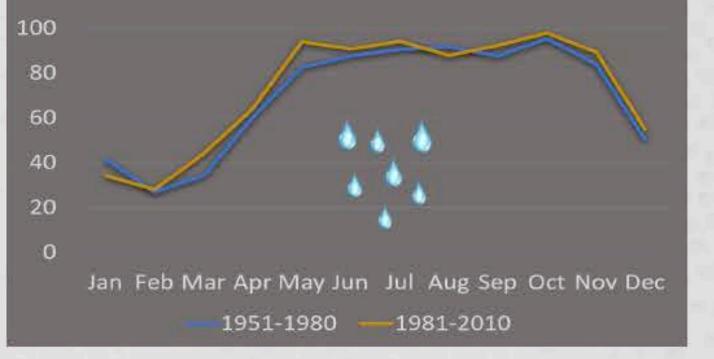


New Brunswick Snowfall Average (cm)



New Brunswick Rainfall Average (mm)

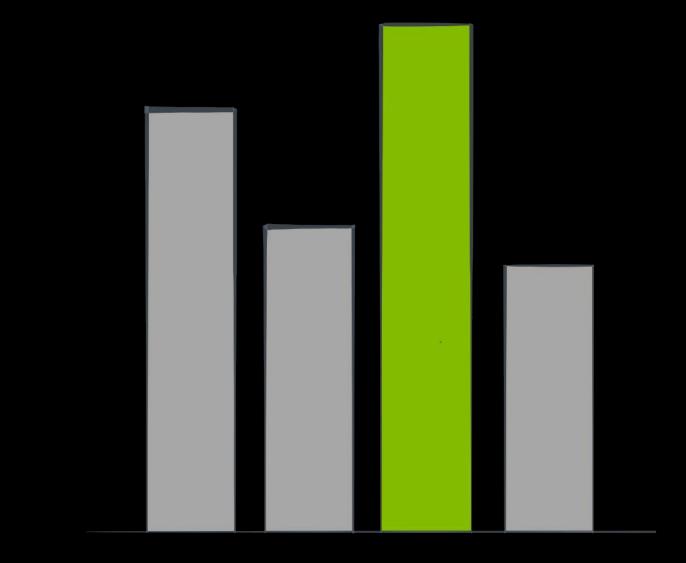
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	-8.2	-7.5	-10.0	-8.8	-11.3	-6.5	-6.5	-8.7	-9.5	-6.9
February	-9.7	-7.4	-6.5	-8.6	-14.7	-5.2	-7.0	-5.5	-9.1	-7.6
March	-2.6	0.5	0.3	-6.3	-4.6	-2.2	-4.8	-0.9	-3.8	-1.6
April	4.4	6.0	4.5	4.4	3.3	3.7	5.3	2.4	4.2	3.5
May	11.0	12.1	12.2	10.5	12.5	11.8	10.4	11.3	8.8	10.5
June	15.5	16.1	15.8	17.1	14.5	15.9	15.9	14.5	15.7	17.5
July	19.5	20.4	20.3	20.9	18.9	19.7	18.9	21.1	20.0	20.4
August	18.8	20.3	18.3	18.9	20.9	19.3	17.4	20.1	18.2	19.2
September	15.2	14.2	14.3	13.9	16.8	14.9	16.8	13.8	12.7	13.9
October	8.8	8.9	8.0	9.5	6.3	8.4	10.6	5.8	8.2	7.5
November	3.4	1.3	0.7	0.1	2.8	3.6	1.6	-1.0	-0.6	3.6
December	-3.1	-3.9	-8.3	-2.7	-0.8	-6.5	-8.6	-6.4	-4.1	-1.1
Yearly Average	6.1	6.8	5.8	5.7	5.4	6.4	5.8	5.5	5.1	6.6



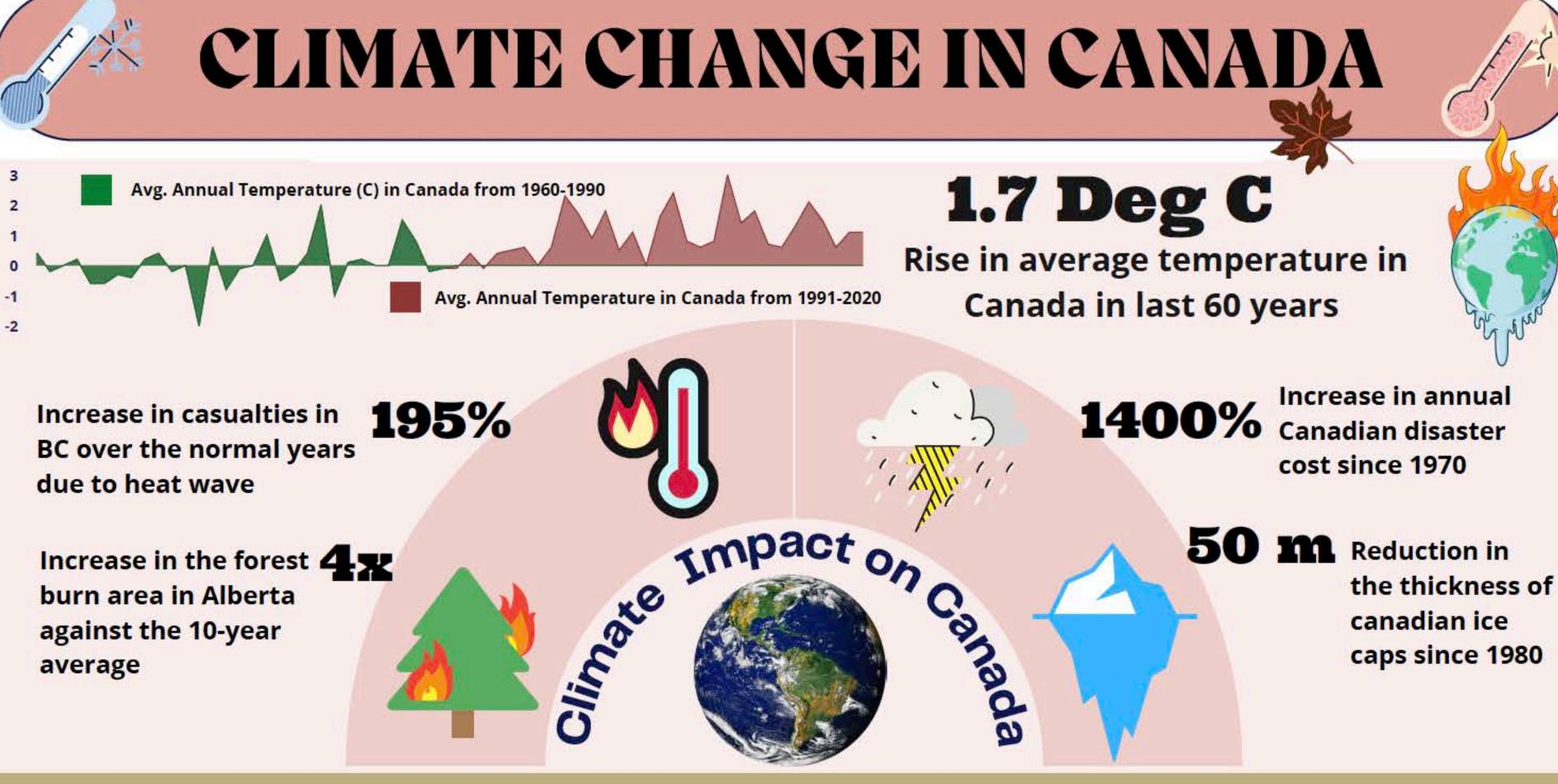
Created by Data Storytellers

Source: climate.weather.gc.ca, www.publicsafety.gc.ca Photos: pngegg, physicsworld, softwaremill, vectorstock

Data Wizards



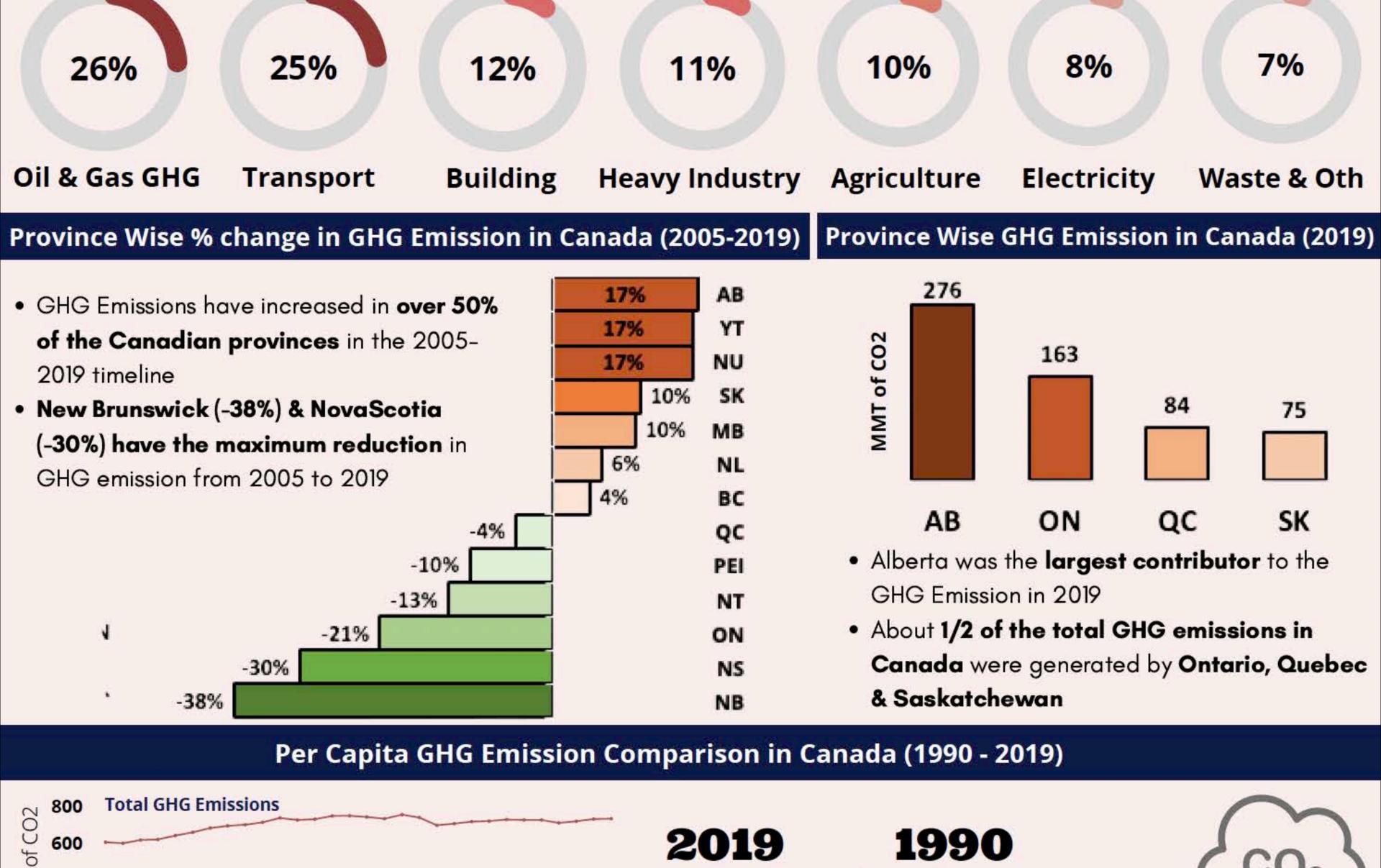
Team 11/27



GREENHOUSE GAS (GHG) EMISSION

Biggest contributor to Canadian Climate Change

Economic Sector Wise GHG Emission in Canada (2019)





References

- https://www.nrcan.gc.ca/sites/www.nrcan.gc.ca/files/energy/Climate-change/pdf/CCCR_FULLREPORT-EN-FINALpdf
- https://www.canada.ca/en/environment-climate-change/services/climate-change/causes.html
- https://www.imua.org/Files/reports/Natural%20Disasters%20-%20Country%20Profile%20Series%20-%20Canada.html
- www.canada.ca/en/environment-climate-change/services/climate-change/greenhouse-gas-emissions/inventory.html
- https://www.nrcan.gc.ca/sites/www.nrcan.gc.ca/files/energy/Climate-change/pdf/CCCR-Chapter5-ChangesInSnowIcePermafrostAcrossCanada.pdf

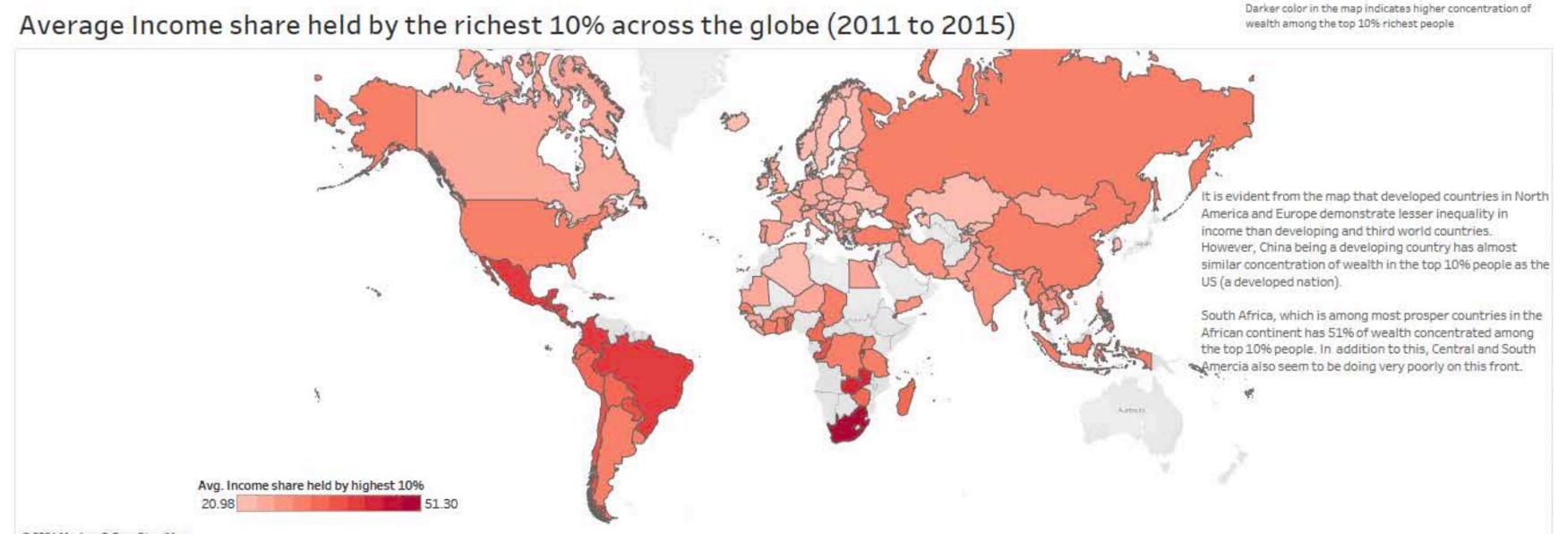




DatVision

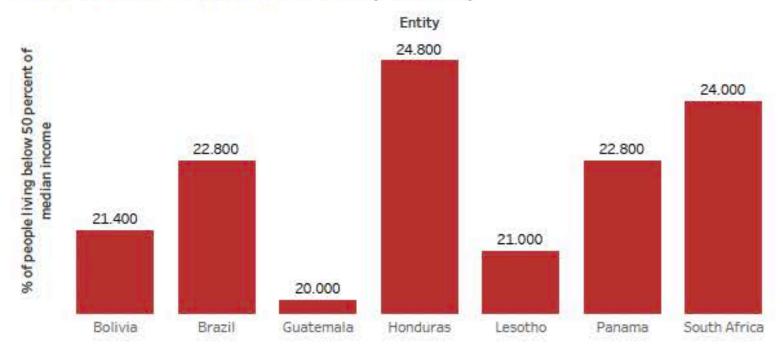
Team 12/27

Reducing Inequalities by 2030 🚨 🎲

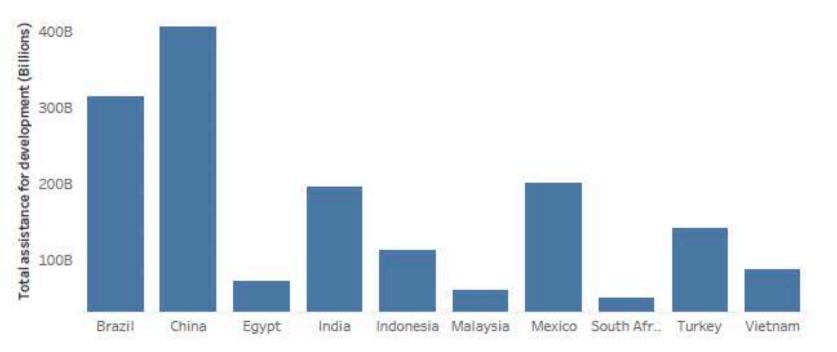


© 2021 Mapbox © OpenStreetMap

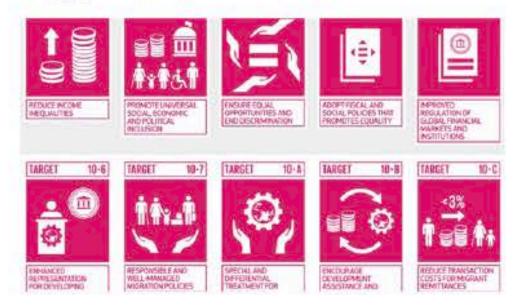
Countries that have the highest no. of people living below less than half the median National Income (2014-18)



Countries that have recived the highest assistance for development between 2010-2019



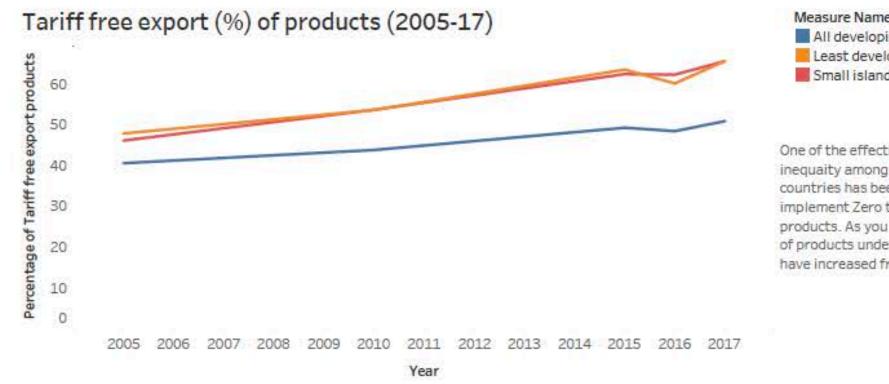
Another indicator demonstrating high level of income inequality amongst developing and third world nations. Notably, 5/7 countries in the list are from South America.



HOW DOES CANADA FAIR IN ACHIEVING THE GOAL OF REDUCING INEQUALITY?

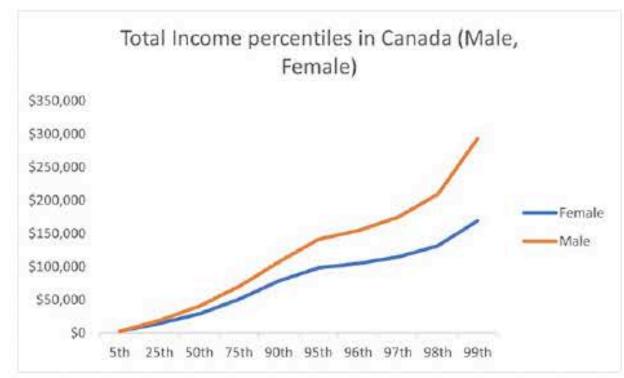
Out of 7 countries which have the highest inequality rate, only South Africa and Brazil appear in the list of top 10 countries that have received the highest amount of financial assistance in the years 2010-19.

China, despite having a low income inequality has received the highest amount of assistance. Such inequality in granting assistance may further lead to higher income inequality.



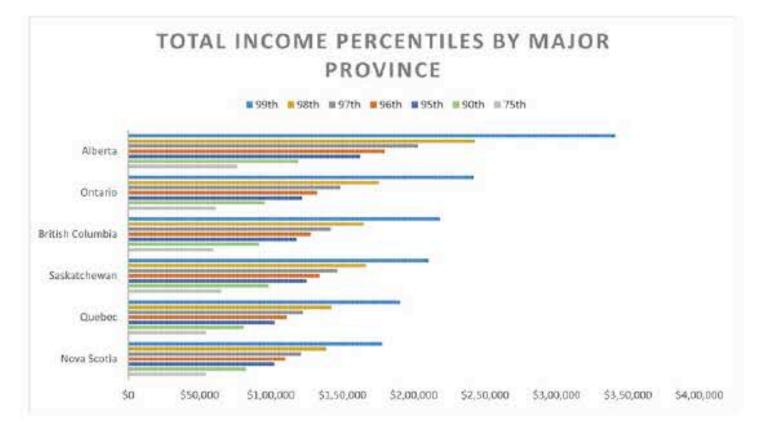
Measure Names
All developing countries
Least developed countries
Small island developing States

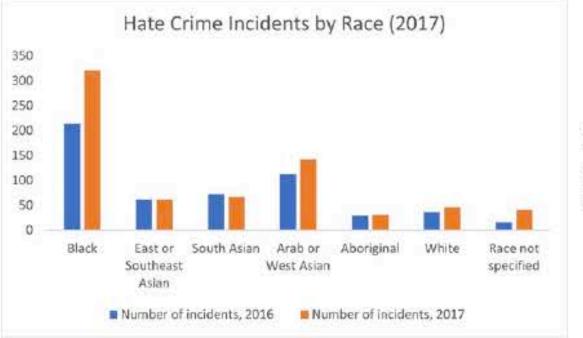
One of the effective ways to reduce inequaity among the low income countries has been the measure to implement Zero tariff on export products. As you can see, the number of products under zero tariff measure have increased from 2005-17.

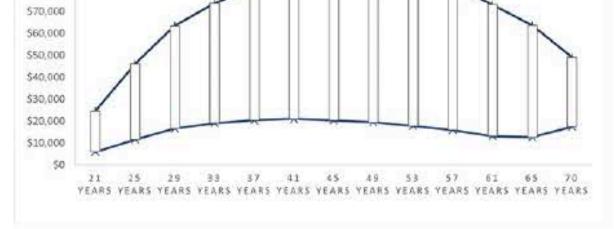


Gender income inequalities acutely impacting those who are already disadvantaged, including girls and women







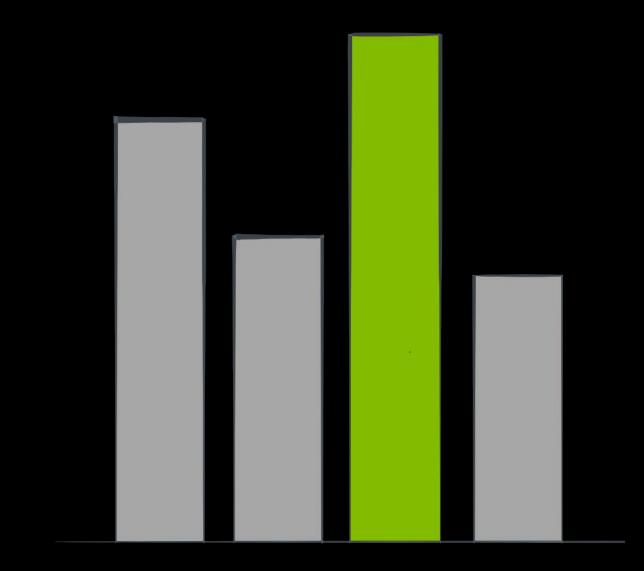


Distribution of income by different ages demonstrate inequalities across different ages. The inequality is significant for people between the age of 37 and 53 years

References:

https://ourworldindata.org/grapher/income-share-held-by-richest-10?time=2013 https://www12.statcan.gc.ca/census-recensement/2016/dp-pd/dv-vd/inc-rev/index-eng.cfm#chrt-dt-tbl In 2017, 43% of all police-reported hate crime was motivated by race/ethnicity Whereas 50% increase seen in police reported hate crime motivated by black race

> Submitted By: Team Datvision Abhay Punia Rohan Gupta

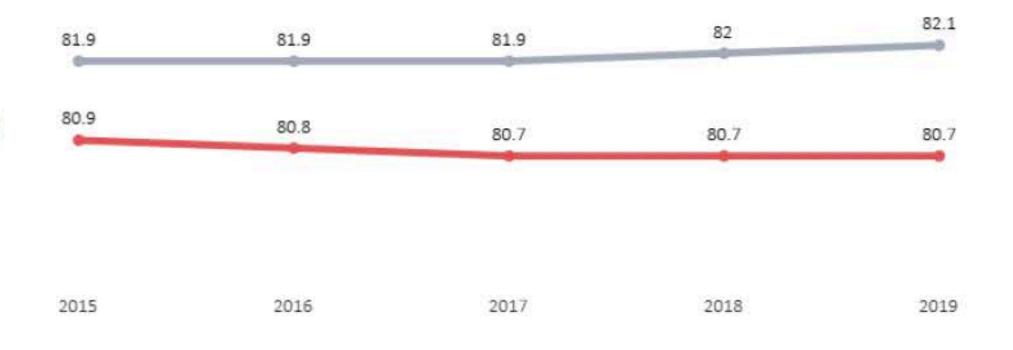


Team 13/27

How to Make New Brunswickers Healthier ?

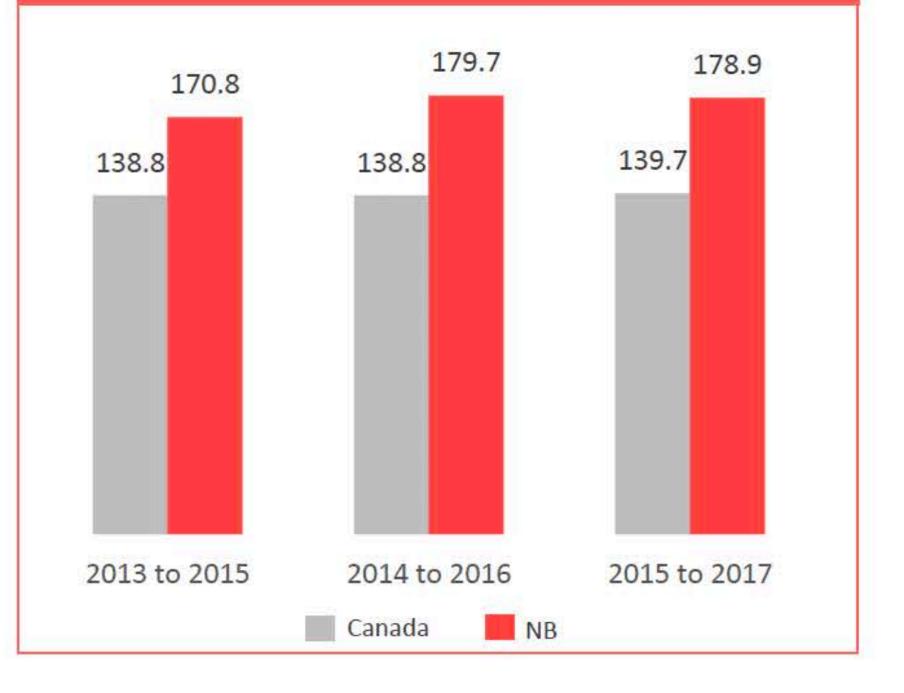
80,152

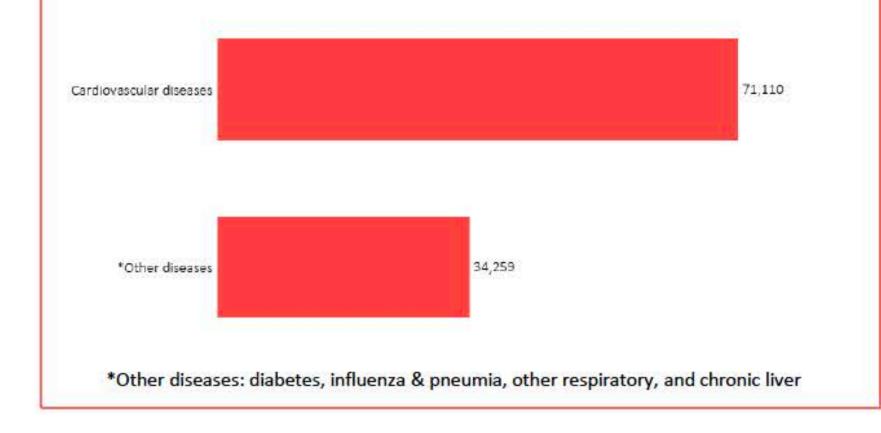
New Brunswickers live approx. **1 year and 4 months** shorter than the average Canadian



Leading Causes of Death in Canada in 2019









Cancerous tumors

49% Have **NO** regular physical activity 80% Eat fruits andvegetables less than5 times per day

\$7,082 Health expenditure per capita

Recommendations

- Educate & promote healthy eating at a younger age
- Better access & pricing to healthier food products



More affordable facilities Raise awareness through social media

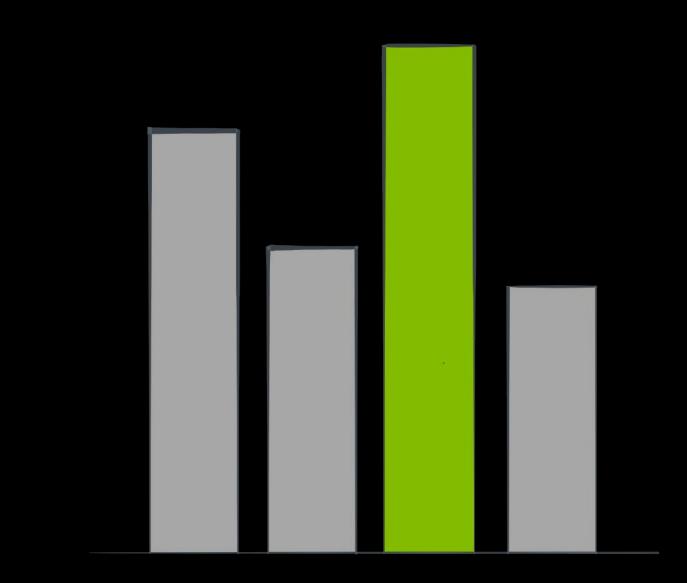
Team: DDJM











Team 14/27

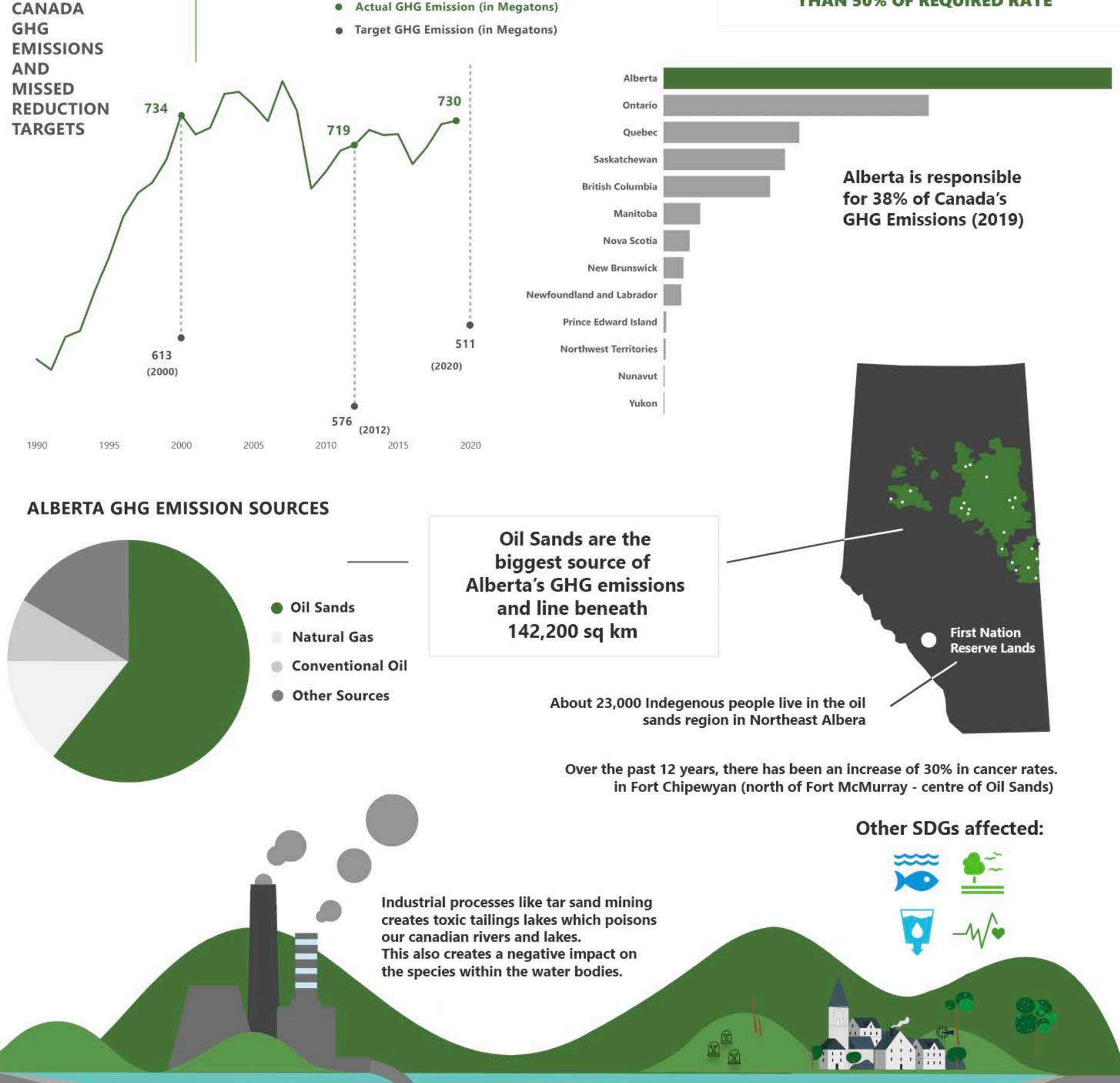
ALBERTA OIL SANDS

OUR BIGGEST ECONOMY DRIVER, BUT AT WHAT COST?

CANADA HAS MISSED EVERY REDUCTION TARGET (STARTING FROM 1992 RIO SUMMIT)



MAJOR CHALLENGES REMAIN FOR CLIMATE ACTION SDG AND CANADA IS STAGNATING OR INCREASING AT LESS THAN 50% OF REQUIRED RATE



RECOMMENDATIONS:

1. Investment in future leading technologies that are outlined by Provincial Energy Strategy to help slower the growth rate of the oil sands.

2. Establish a conservation offset program to protect areas in the oil sands region to help maintain and support provincial biodiversity and wetlands.

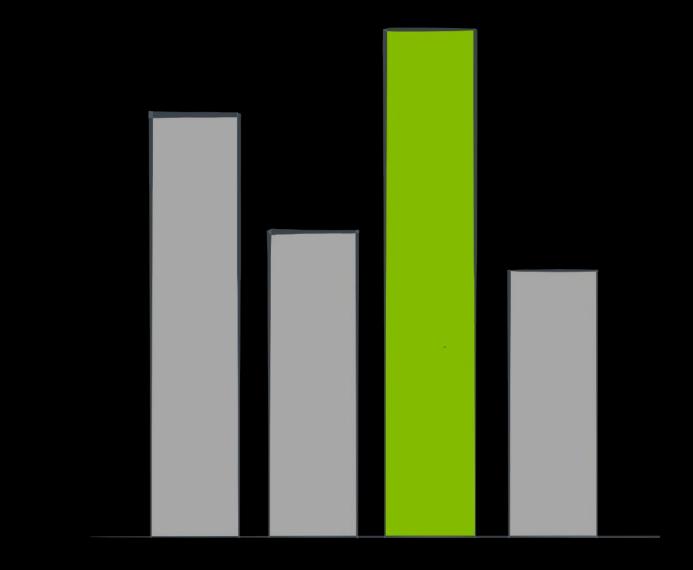
3. Collaborate with First Nations such as the Metis Settlement's in the oil sands region to obtain data on how the oil sands can impact Settlement land. Consult Aboriginal communities who are protected under section 35 to insure they are not impacted by the development of oil sands.

References:

https://open.alberta.ca/dataset/d1a56e4a-9b36-4068-94ba-dfbc042784c8/resource/4974c0fe-SbdF 4480-9661-4a681ac6d740/download/4284828-2009-cas-responsible-actions-plan-albertas-oil-sands-2009-82.pdf https://climateactionnetwork.ca/wp-content/uploads/2014/02/WaterandTarSandsReport_FIMAL.pdf https://dashboards.adgindex.gn/profiles/canada https://www.cbc.ca/archives/entry/kyoto-a-very-real-deal https://www.cbc.ca/archives/entry/kyoto-a-very-real-deal https://www.canada.ca/en/en/entriesement-climate-change/services/environmental-indicatora/greenhouse-gas-emissions.html https://climateactiontracker.org/countries/canada/



Eco-Minions



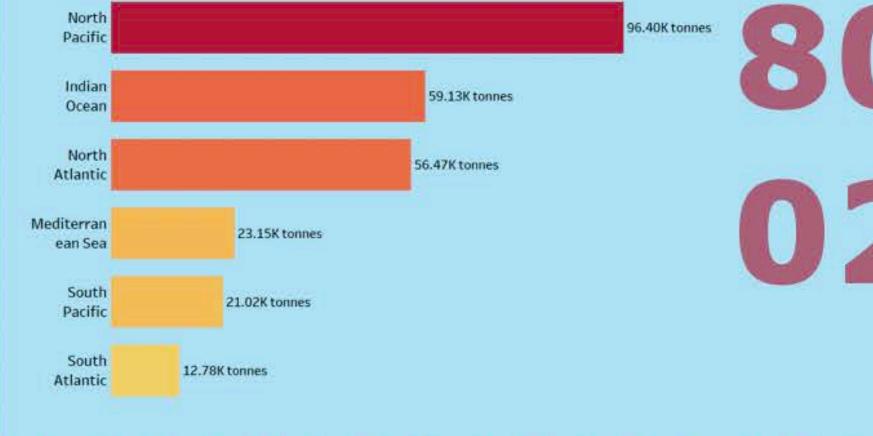
Team 15/27

Our Efforts Towards Plastic Reduction ARE THEY ENOUGH?

@Eco-Minions

Drowning In Plastic?

Ocean pollution by plastics





% of Marine Pollutants is Plastic

Most Polluted Oceans Surround Canada

*Based on reports for the year 2016

Where Canada's plastic waste went?



New Brunswick lagged behind other provinces in **Plastic Waste Recycling efforts**

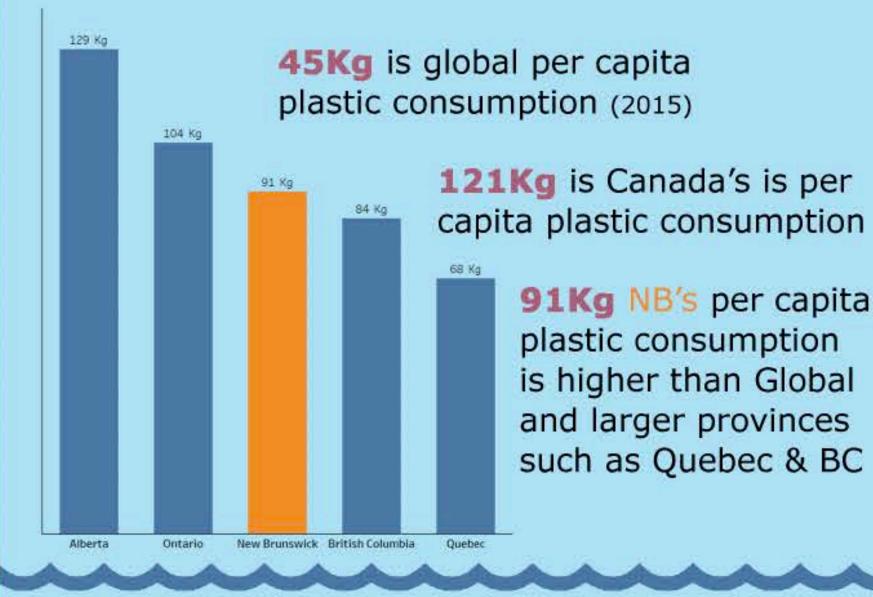
0





...

New Brunswick became the third highest plastic consumer per capita in Canada



What is driving the increase in plastic consumption in Canada?



10% (309 Million tonnes) plastic used in Automotives

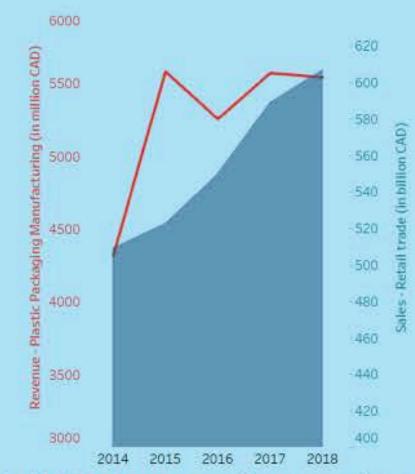
7% (235 Million tonnes) plastic used in Textiles

7% (214 Million tonnes) plastic used in Electronic Equipment

5% (175 Million tonnes) plastic used in Construction

4% (130 Million tonnes) plastic дB used in White Goods

> 20% (662 Million tonnes) plastic used in Other Sectors



Retail Sales are increasing consumption of plastics

*Based on reports for the year 2016

Everyone needs to-

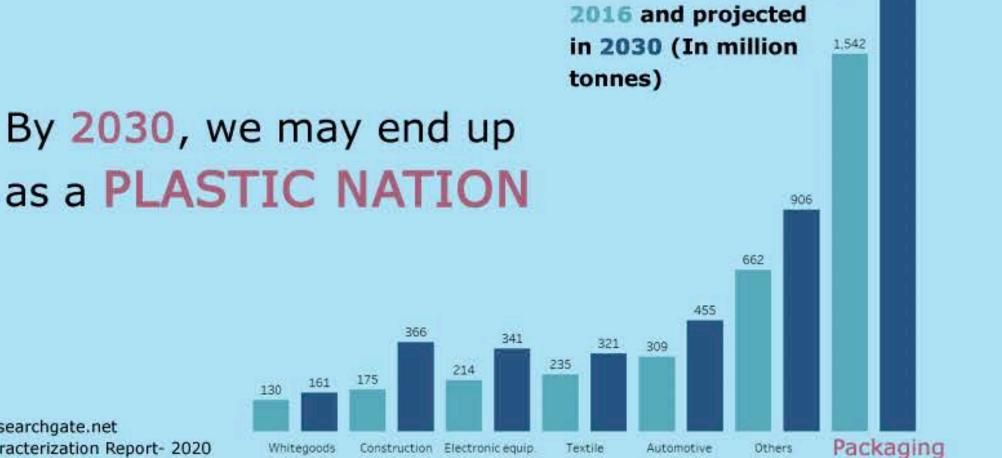
Plastic consumption in

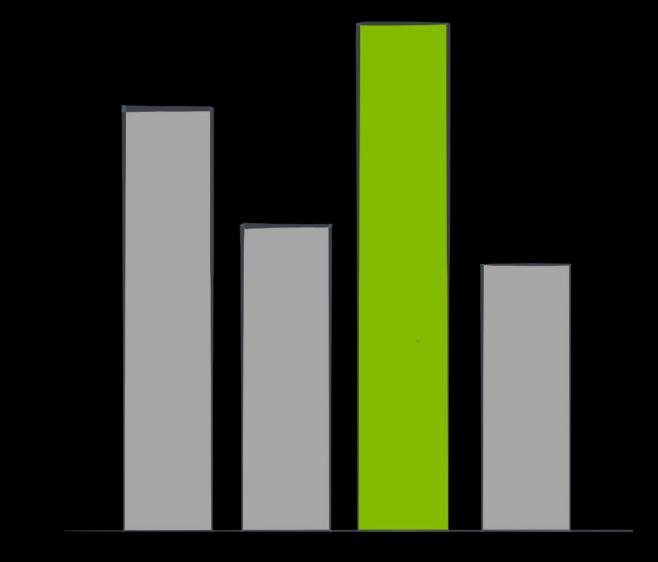
1,992



Prepared by: Sumit Raju, Amber Chowdhury, Kashish Dargan, Rahul Sachdev

Sources: Ourworldindata.org, The Globe and Mail Environment and Climate Change- Canada, Statista.com, researchgate.net National Waste Characterization Report- 2020, Environment and Climate Change- Canada, National Waste Characterization Report- 2020





Fredericton

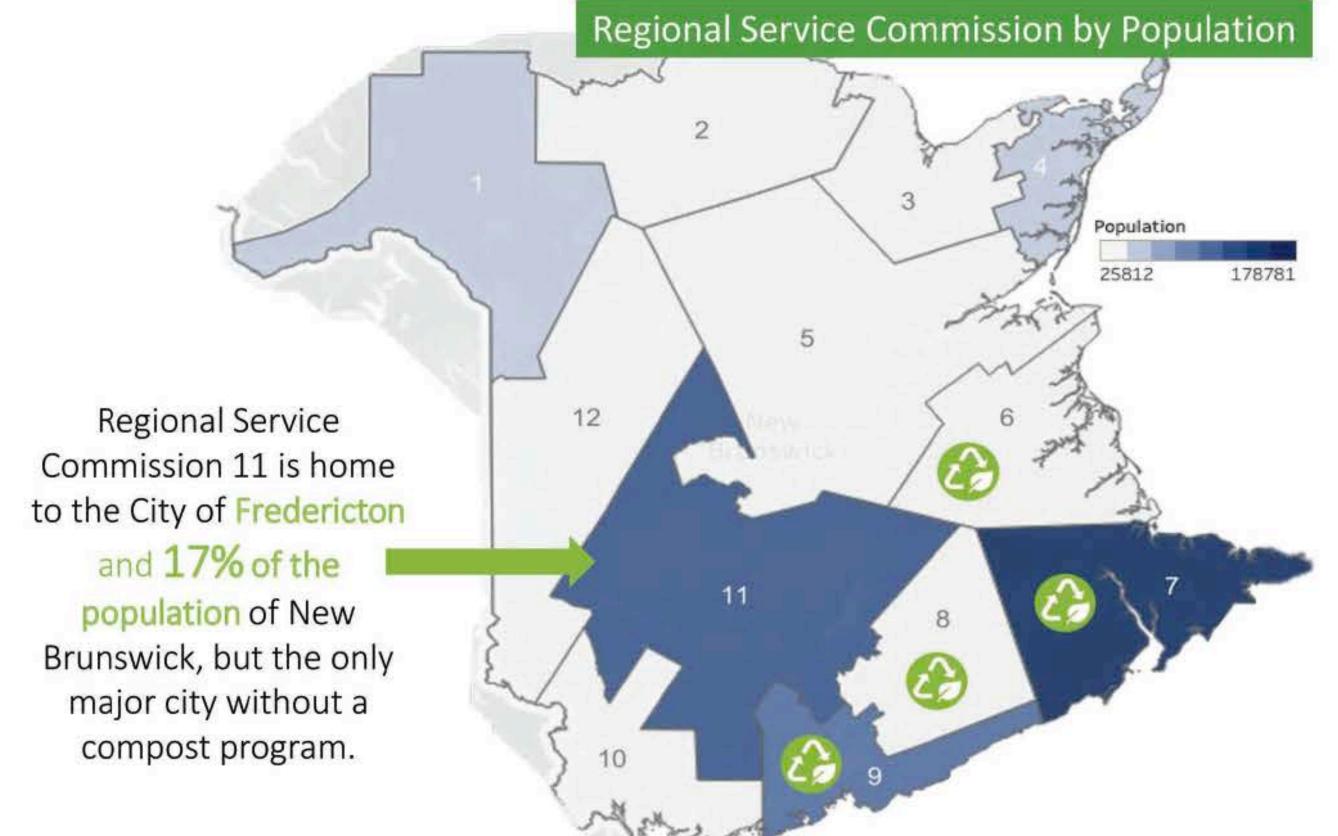


Consultants

Team 16/27

FREDERICTON: DE-COMPOSING A SUSTAINABLE FUTURE

Presented by: The Fredericton Composting Consultants Abhisarika Alagala, Alex Dandridge, Jason Currie, and Subomi Ishola-lemomu



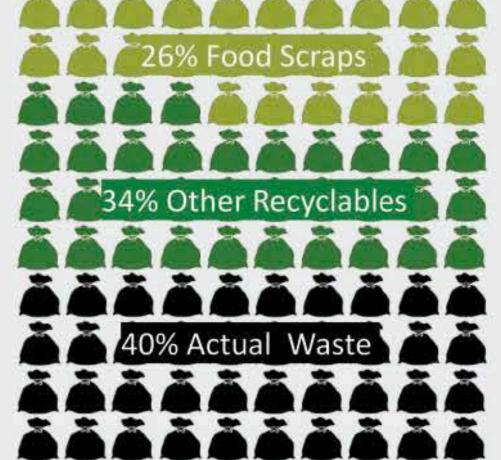
12.5: By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse.

RESPONSIBLE

AND PRODUCTION

2 RESPONSIBLE CONSUMPTION

What's In The Landfill?



26% of landfill waste is food scraps that could be composted

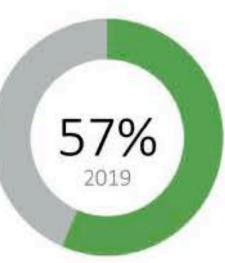
> The Benefits of Curbside Compost

> > Extend Landfill Life by 10 Years

Reduce Use of Harmful Fertilizers



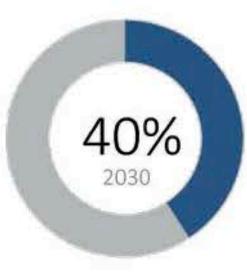
A Local Case Study: If Halifax Can Do It, Why Not Fredericton?

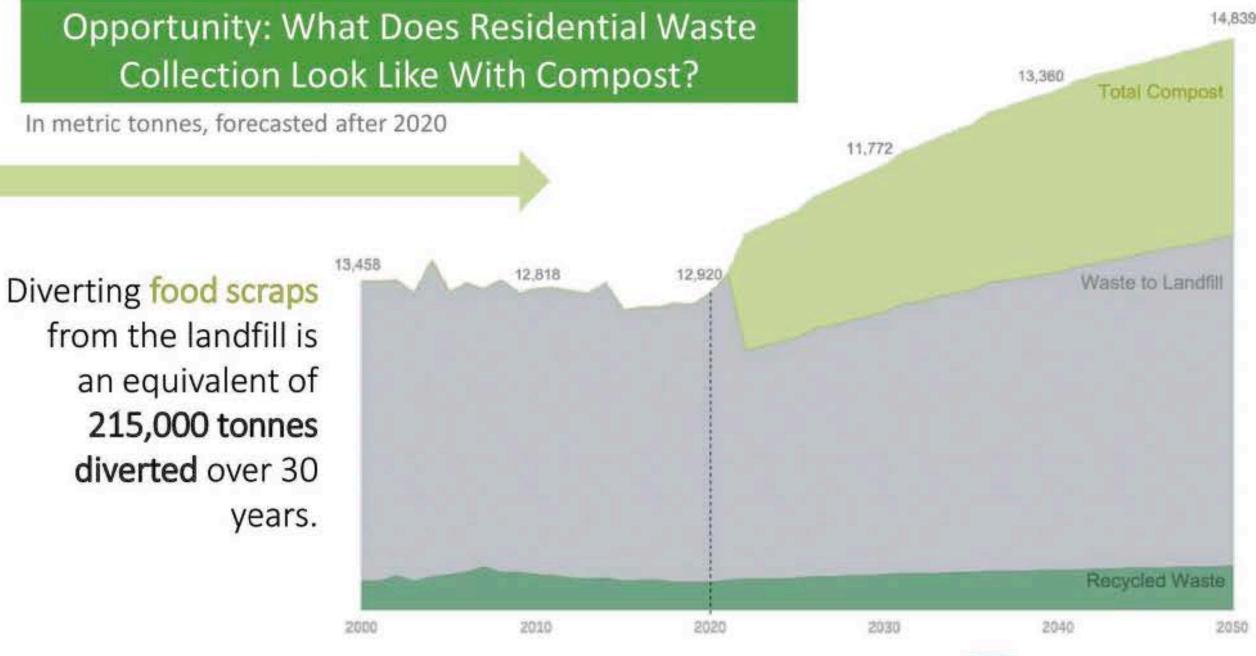


Halifax diverted 57% of residential waste from the landfill through curbside recycling and compost.

16% 2020

Fredericton can divert at least 40% from the landfill with a curbside compost program.





Private companies can work with municipalities

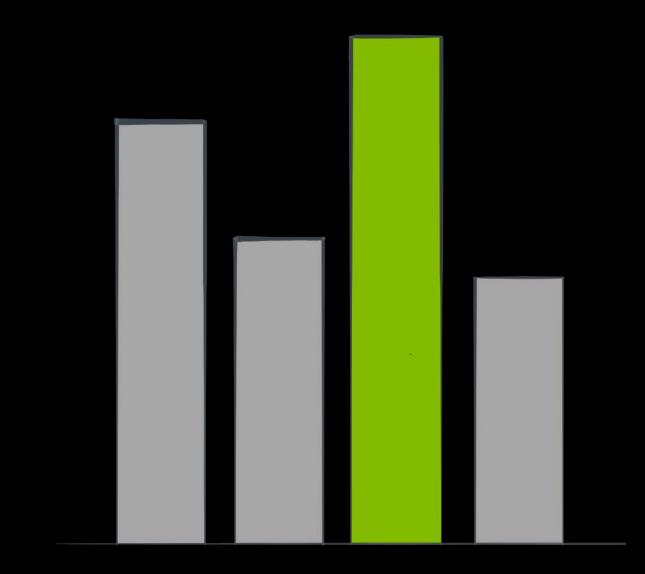


Profit From the Sale of **Processed Compost Product**

to convert food scraps and other organics into compost that can be resold

CALL TO ACTION: The City of Fredericton should implement a curbside compost program, modelled off similar programs in the Atlantic Region, to reduce waste generation and recycle and reuse organic waste.

Sources: City of Fredericton, DivertNS, GeoNB, StatsCan, Open Data Fredericton



Team 17/27

Face Masks: New Fashion? New Pollution!



Est. 3,000,000 Disposable masks are being used 1 minute globally

How Many Masks Do New Brunswickers Use Per Week?



In one week, Fredericton woman collects nearly 600 masks littering city

How are the masks disposed?



Where Do All Masks Go?



Approximately 63,000 tonnes of COVID-19 related PPE could end up as waste

More than 1.56 billion face masks could end up polluting oceans

What Can We Do?

Properly Dispose & Recycle Our Masks

Plaxtil, a French company, has been recycling more than 50,000 face masks and produced up to 3,000 recycled items

50,000

Strict Waste Management & More **Financial Support**





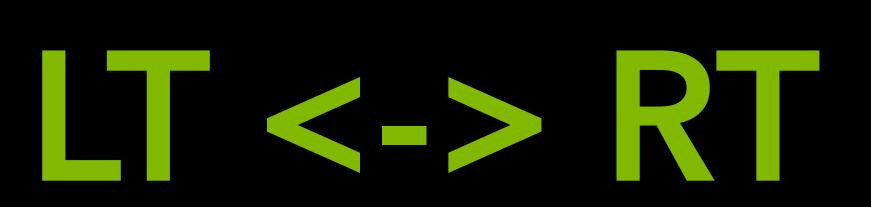
Source: StatCan.gc.ca

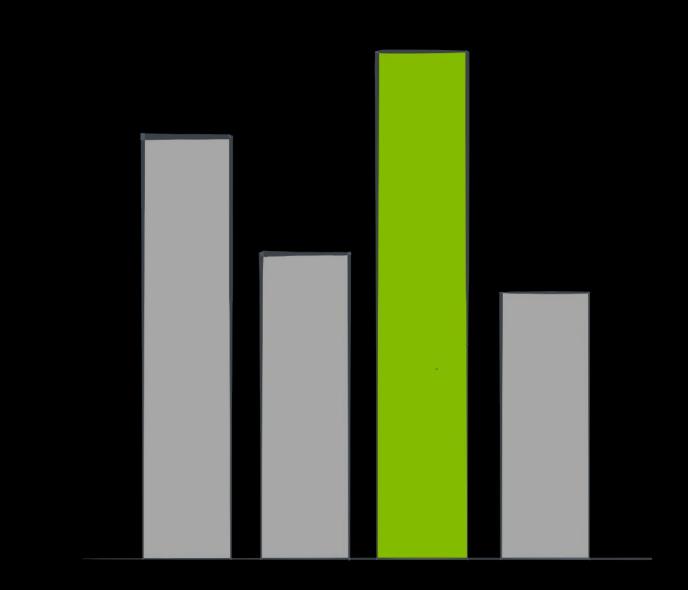
Source: https://www.ctvnews.ca/sci-tech/more-than-1-56-billion-face-masks-could-end-up-polluting-oceans-report-1.5221239 Source: https://globalnews.ca/news/7818074/disposable-covid-masks-quebec-recycling/ Source: https://www.sciencedaily.com/releases/2021/03/210310122431.htm

Source: https://doi.org/10.1016/j.envc.2021.100039 Source: https://www.france24.com/en/20200827-face-mask-recycling-french-firm-finds-way-to-re-use-covid-waste Source: South Surrey N-95 equivalent manufacturer launches mask recycling program – Surrey Now-Leader (surreynowleader.com) Source: https://doi.org/10.1016/j.envc.2021.100039

Image credits: https://www.cbc.ca/news/canada/newbrunswick/disposable-masks-litter-fredericton-1.5980976 Image credits: https://www.express.co.uk/news/nature/1311898/RSPCAcoronavirus-mask-seagull-rspca-south-essex-wildlife-hospital Image credits; https://www.ecowatch.com/ppe-wildlife-2652766542.html#toggle-gdpr Image credits: https://twitter.com/jamesmelville/status/1443661486543577088

Image credits: https://www.mdpi.com/2073-4360/12/11/2726



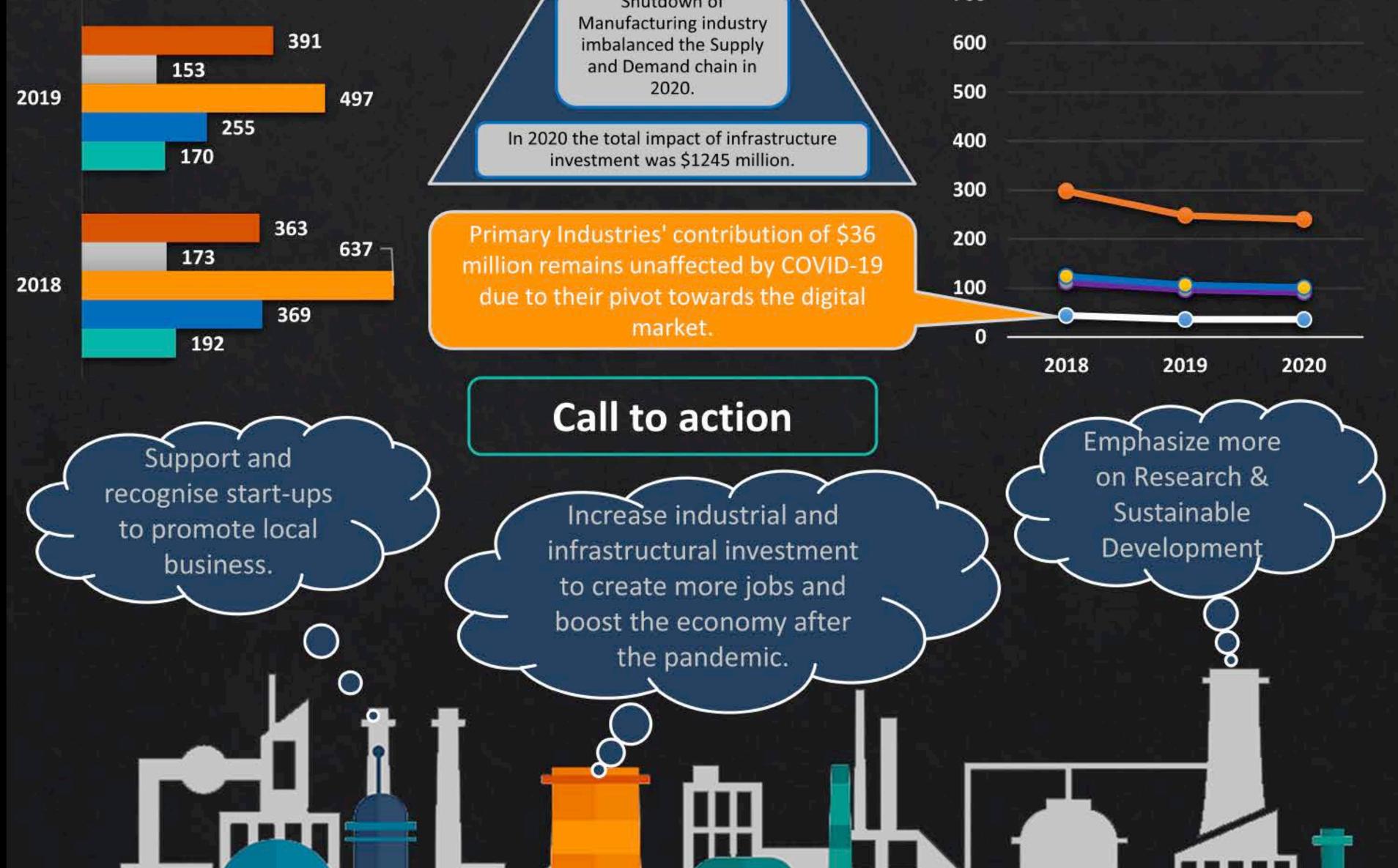


Team 18/27



Impact of Investment in Industrialization in New Brunswick

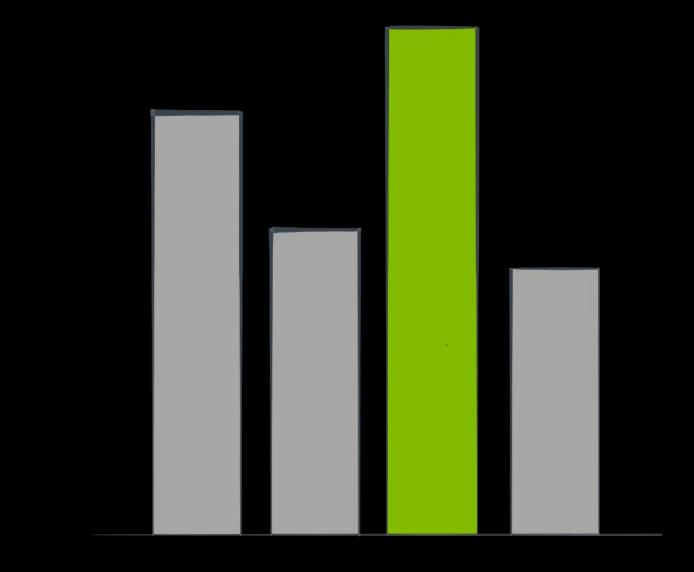
Total Change observed in total What was the major industries' contribution in 2020's economic investment. Why? impact? Investments reduced by \$74 Information Trade millions due to and Construction and **COVID** crisis Manufacturing Transportation 2019 Finance 63% 1677 8% 9% 21% 2020 1603 How much industrial How much invested? push in economy? (In M\$) Transportation investment increased in (in \$ million) 2020 by \$20 million to keep the province Construction Electric Power Infrastructure functioning and connected at the time of Information Communication Networks crisis Manufacturing Transportation Engineering Transportation Instituitional Buildings 154% Commercial Buildings Primary industries 12148 Startup's 1000 334 New Jobs revenue 517 Key 131 in 2020 growth in 900 2020 2020 Insights 263 800 155 700 Shutdown of



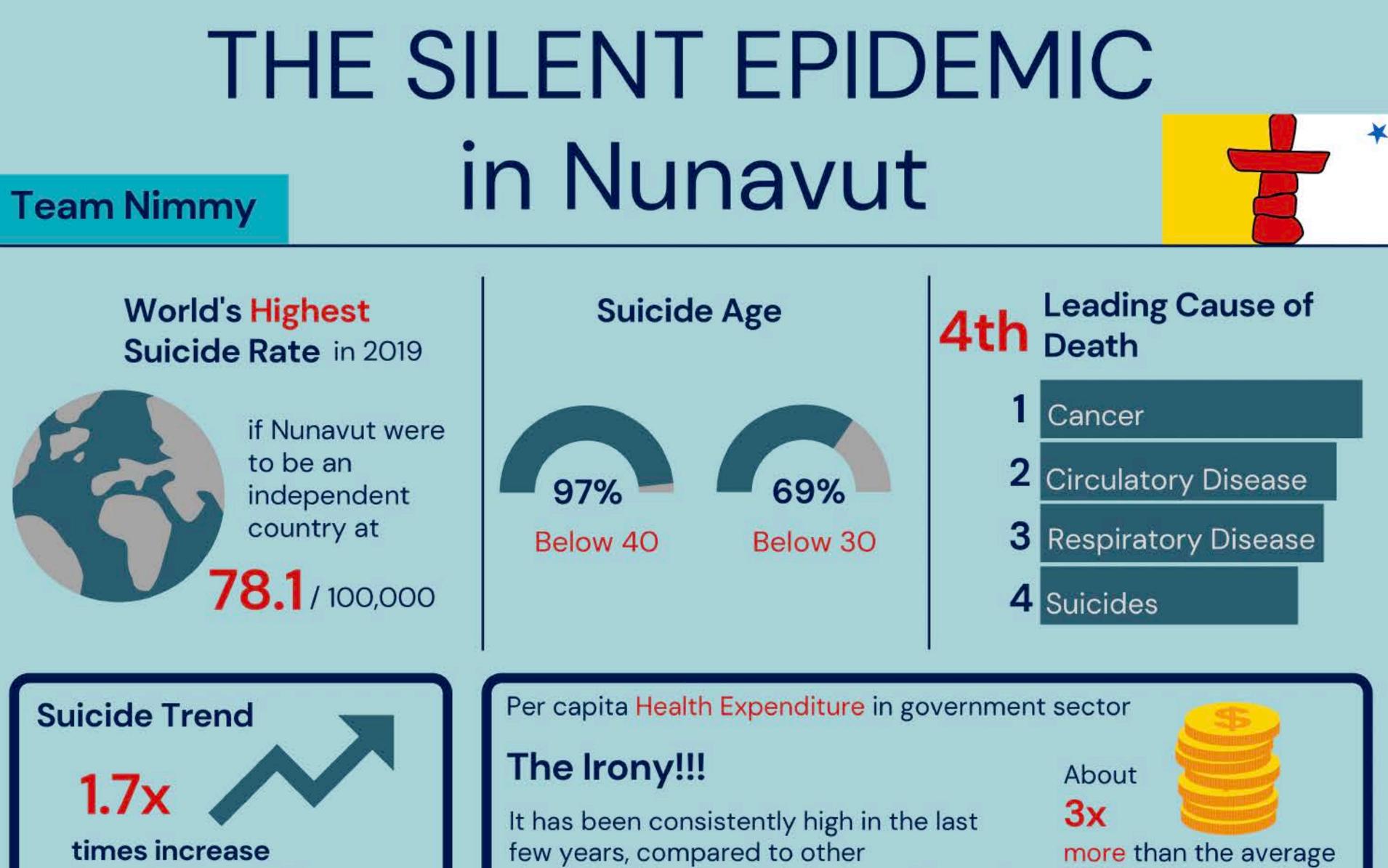


Author: LT <-> RT. Source: https://www150.statcan.gc.ca/n1/pub/71-607-x/2018013/ic2-eng.htm

Nimmy Patil



Team 19/27

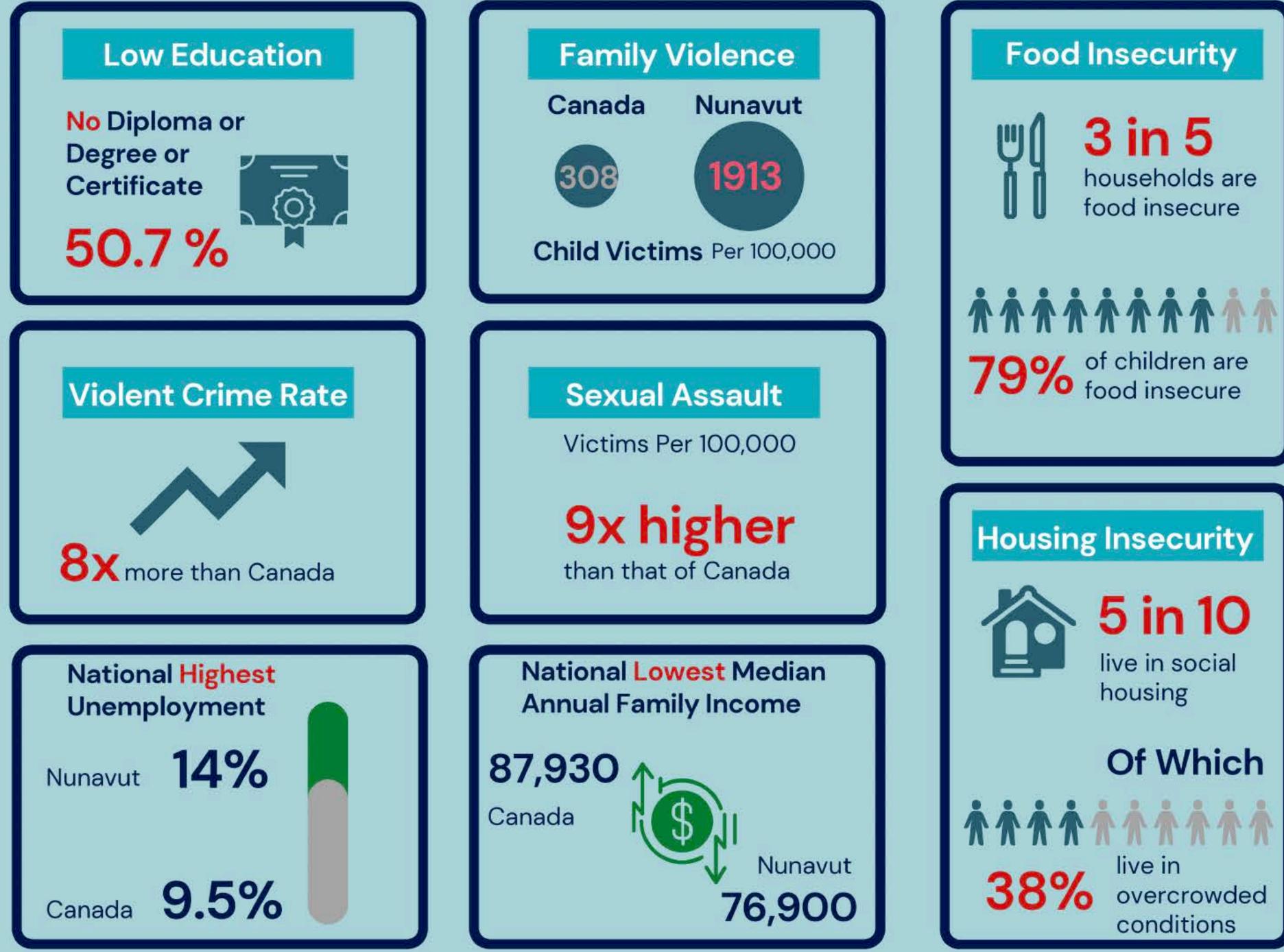


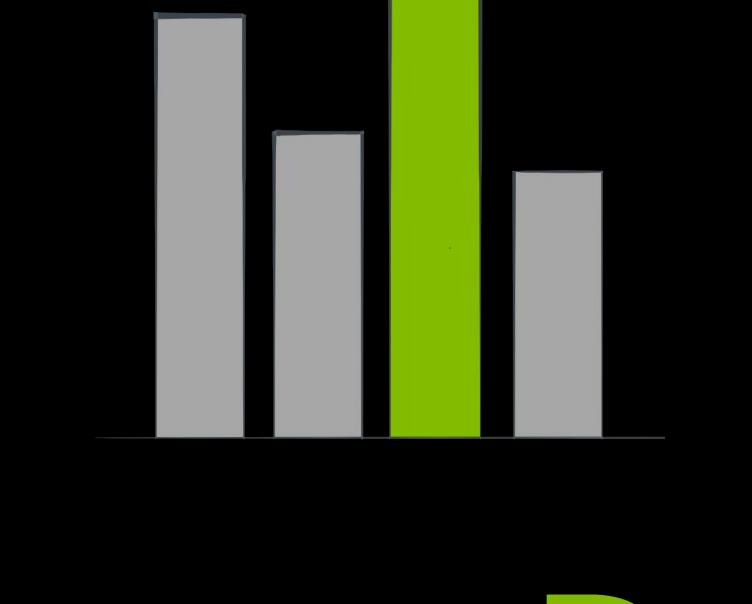
from 2018 to 2019

provinces/territories in the rest of Canada

in Canada

Elements that multiply the risk of suicide





Poverty Data Visualizers

Team 20/27

THE UNCOMFORTABLE TRUTH

The truth cannot be denied. In light of Canada's richness and resources, a disproportionate amount of Canadians remain impoverished. Many more rely on paycheque to paycheque and are on a verge of sinking into poverty. This is a pressing issue that must be addressed.

Percentage of people below average income (\$50,000) per province

Low

22.2%

19.7%

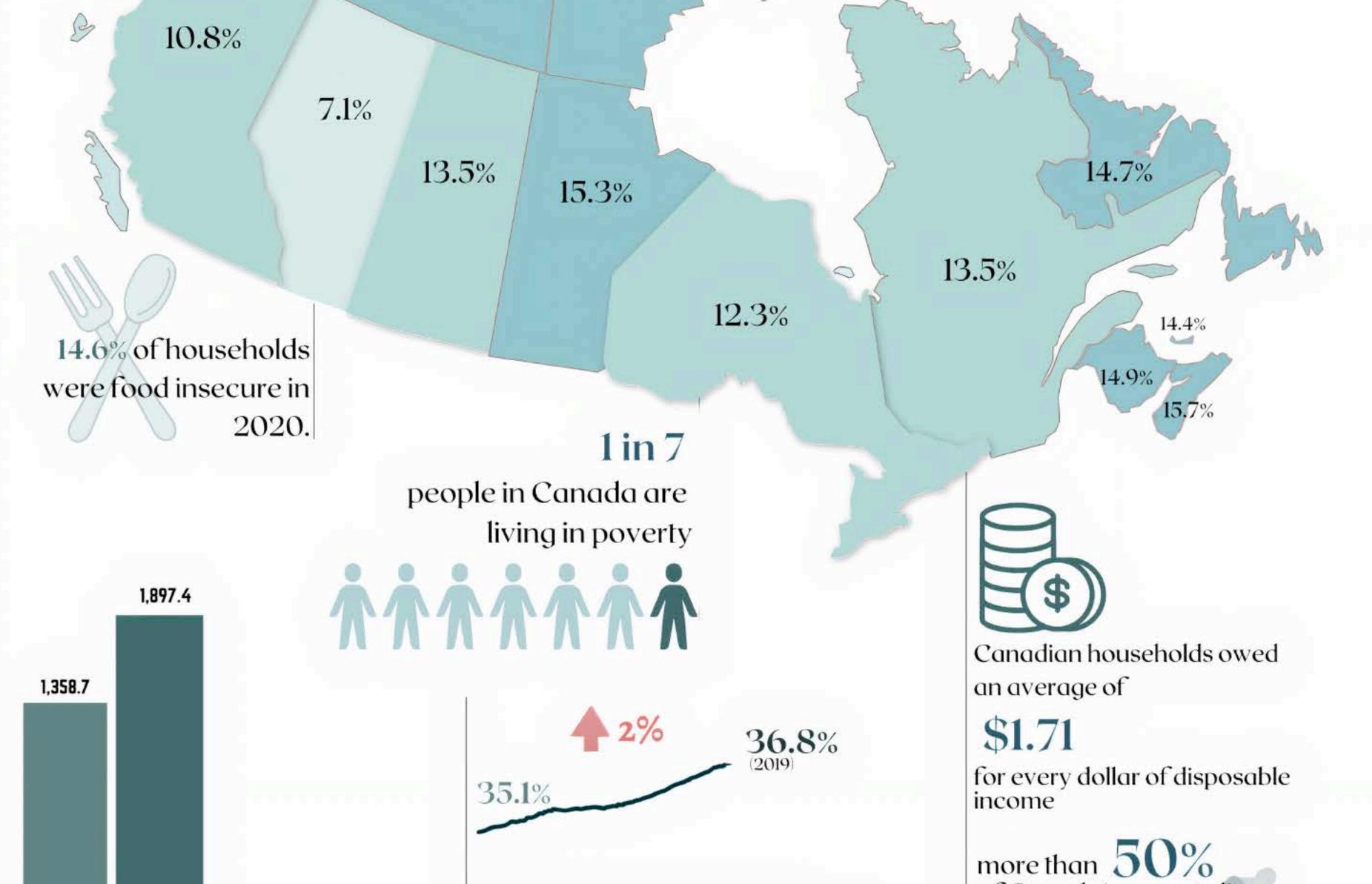
High

40% of Indigenous Reserves are low income

More than

45%

1 in 4 Indigenous people are likely to be living in poverty



16.9%

Unemployment Increased by

39.7% over 5 years.

The average poverty gap has been increasing since 2017 by 2% every 2 years

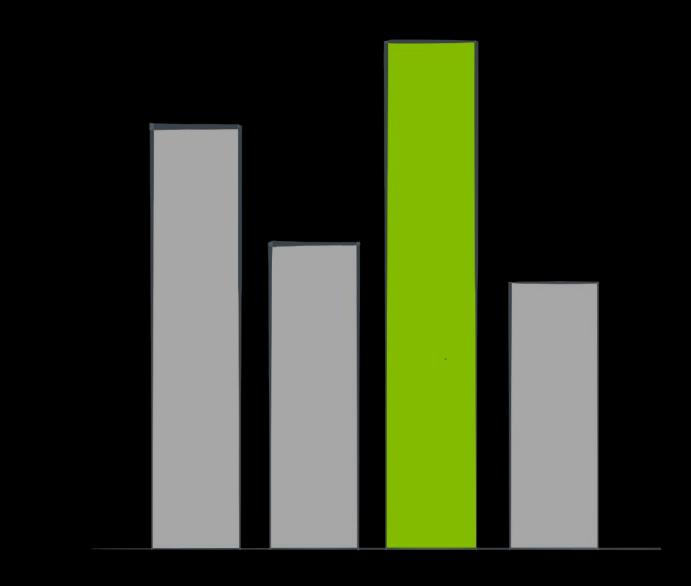
POVERTY IS NOT AN ACCIDENT.

TOGETHER WE CAN PUT AN END TO IT.

of Canada's poverty line makes up of children

> By: Nawal Mahrat Sri Sanjana Baddukonda (Poverty Data Visualizers) Sources : Statcan.gc.ca

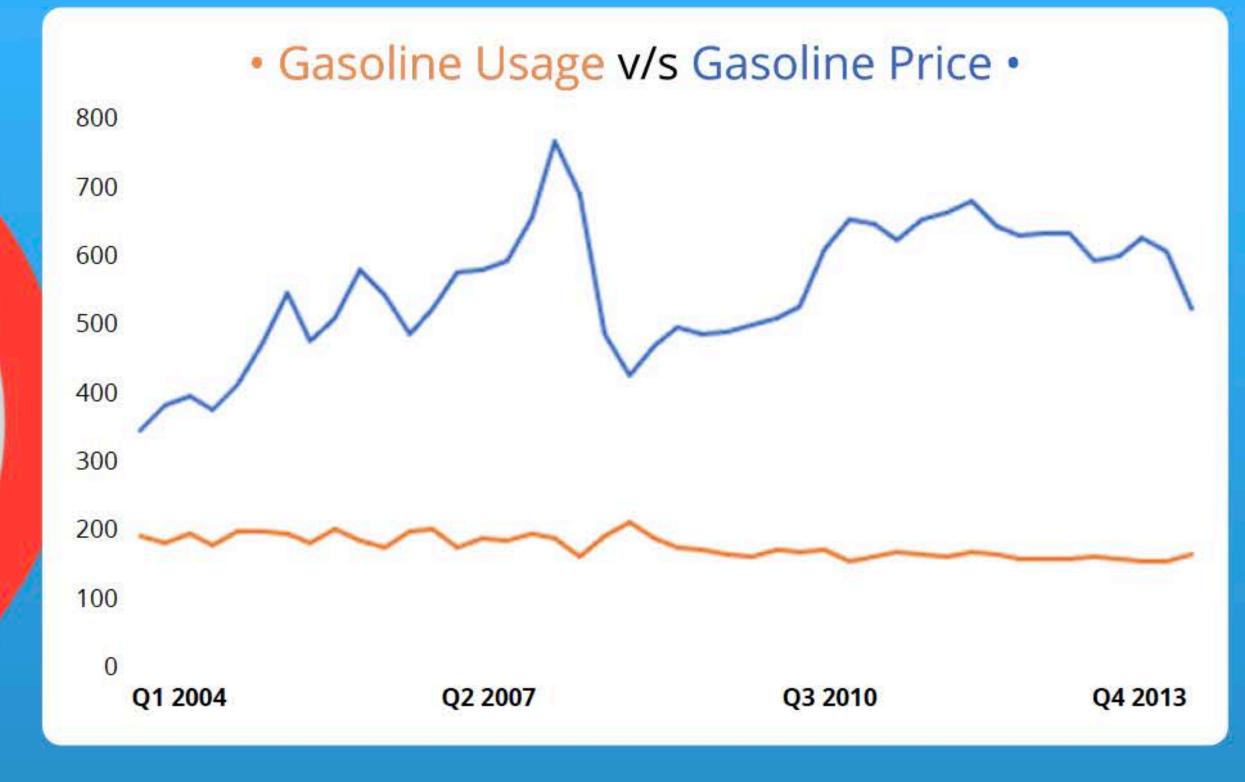


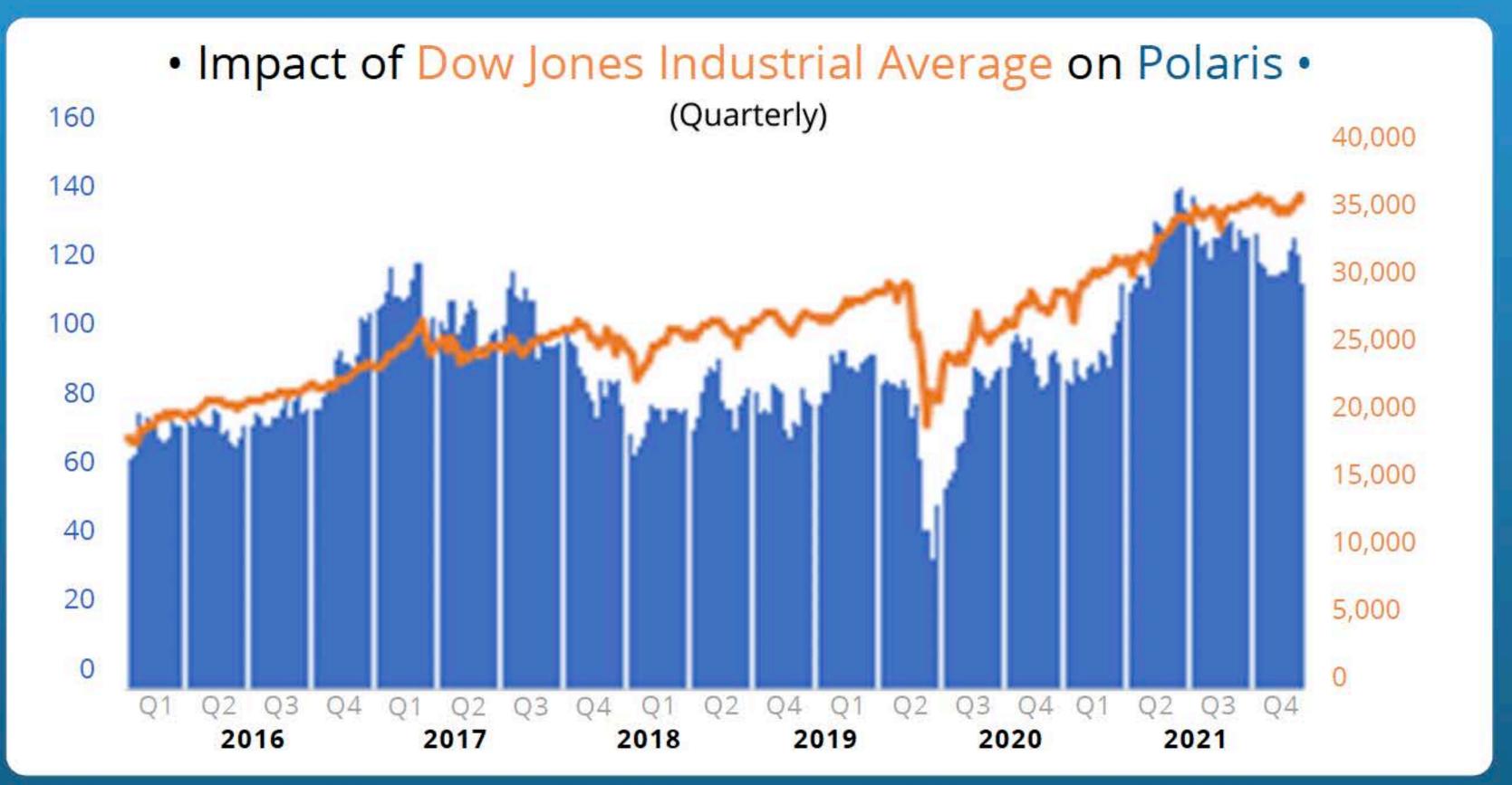


Team 21/27

A Call-to-Action Pathway to a Sustainable Environment

Our call-to-action is to create awareness about ending fossil fuel subsidies. Creating green tech & clean tech more accessible for all in NB





Fossil Fuel subsidies need to be discontinued and clean & green tech start-ups need to be empowered with those subsidies. E-Vehicles need to be subsidized. An ecosystem needs to be set up in New Brunswick for a successful harboring of E-Vehicles & electric transit system.

18 BILLION

4.8 BILLION

0.96 B

2020 Fossil fuel subsidies v/s Average of Previous Years v/s Green Energy Subsidies



Total Population of NB: 747,100

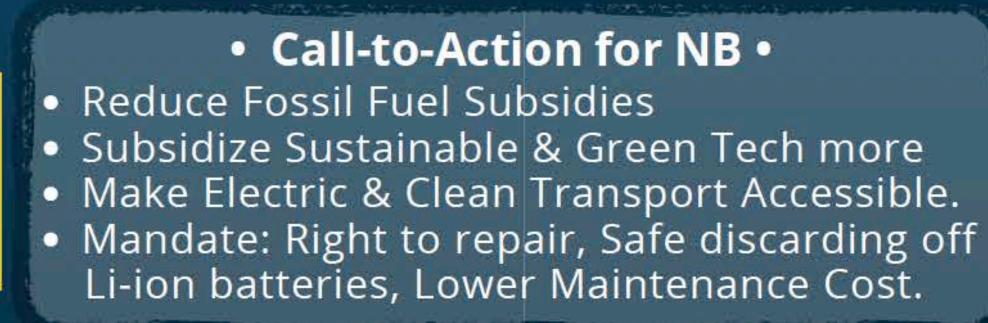
2.3% depend on a public transit system that currently runs on fossil fuels. If this transit system goes green, approx 17000 people's carbon footprint will reduce. An average Canadian produces 16.2% • Single User • Multiple Users • Public transit

Active transport

76.4%

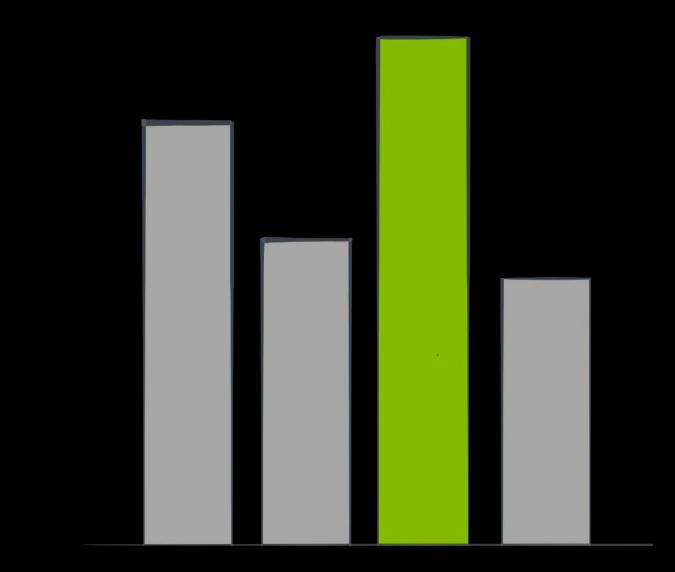


14.2 tonnes of CO2.



Author: TEAM GLEAN, UNB. Year: 2021 Source: SDG Data, StatsCan. Tableau 2021

Team Majestic



Team 22/27

DESIGNED BY: TEAM MAJESTIC

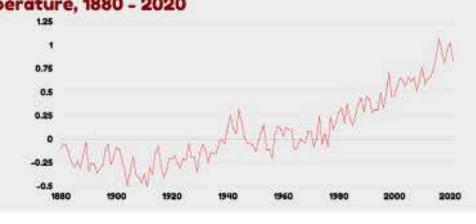
GLOBAL

WARMING

WHAT IS IT?

The rapid increase in Earth's average surface temperature over the past century, primarily due to the Greenhouse Gases (GHG) released by burning fossil fuels.







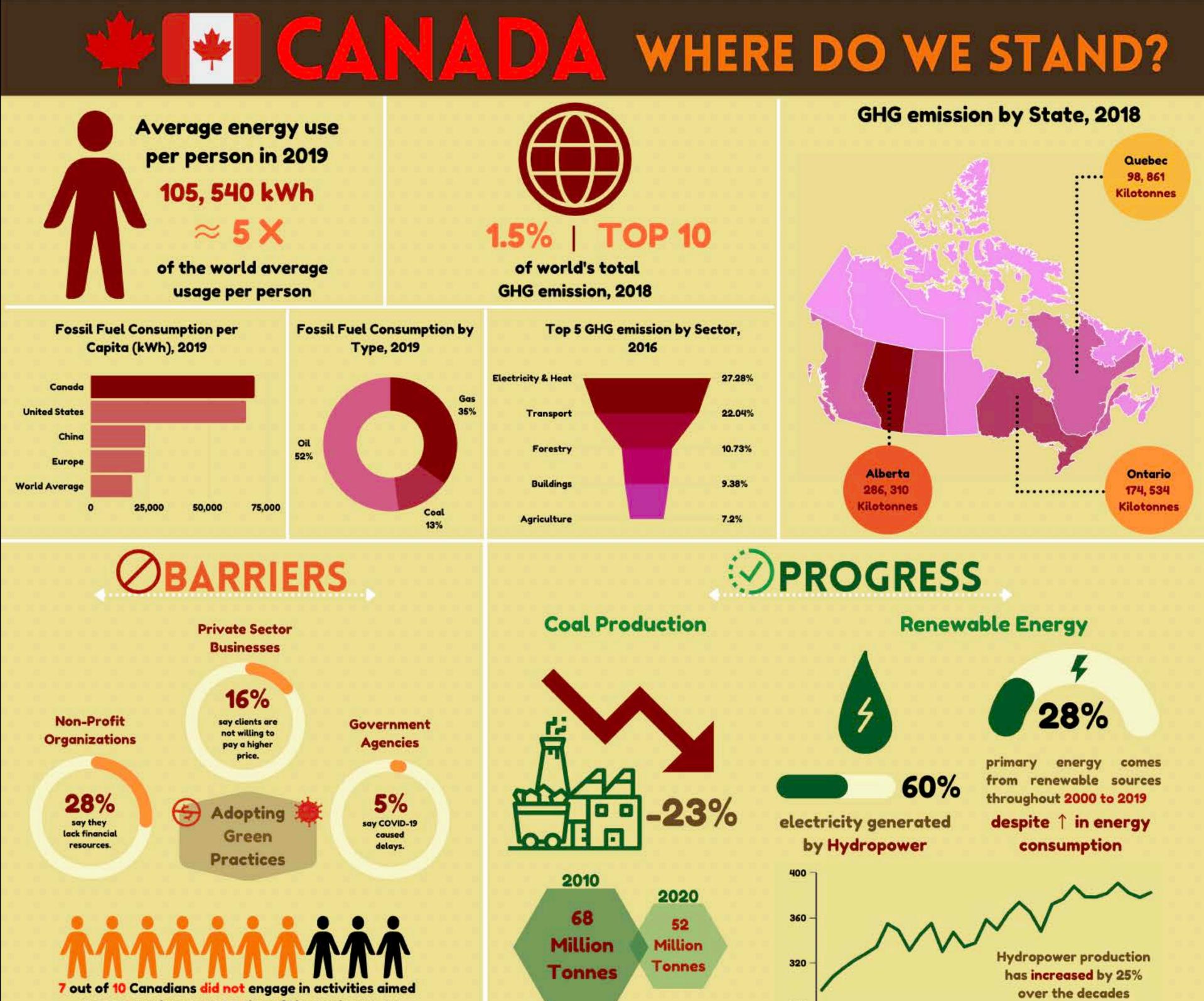
The earth's surface temperature in 2020 was around 0.98 °C warmer than the 20th century average.



The global atmospheric carbon dioxide (CO₂) in 2020 was 412.5 ppm, setting a **new high** despite economic slowdown due to the Covid-19 pandemic.



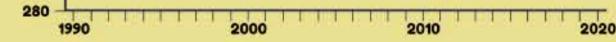
In 2020, approximately 84% of the world's energy consumption needs were met through fossil fuels.



Incentivize

at conservation or protection of the environment

without pay







Each year, enough ice is melting to cover Canada's land mass to a depth of 30 cm. Global sea-level is rising by 3.66mm per year on average over the past decade.

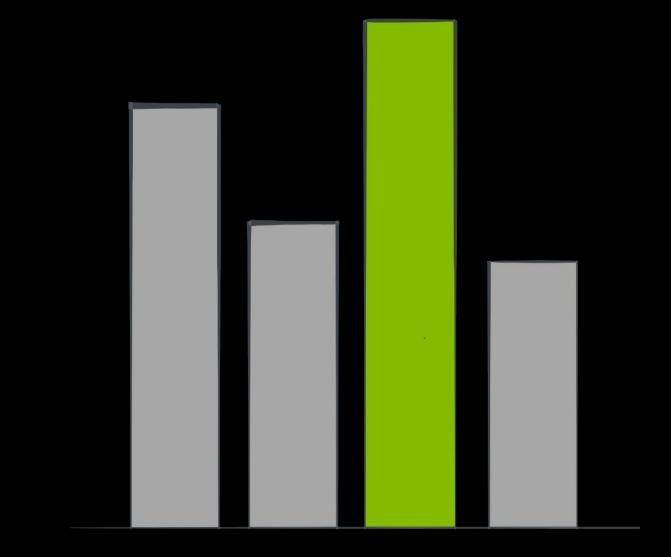
Increase in frequency of natural disasters, such as flooding, wildfire, coastal erosion etc.



Substitute



Sources: StatisticsCanada | OurWorldInData | NASA | NOAA | Statista | CBCNews | OffshoreTechnology | RoyalSociety

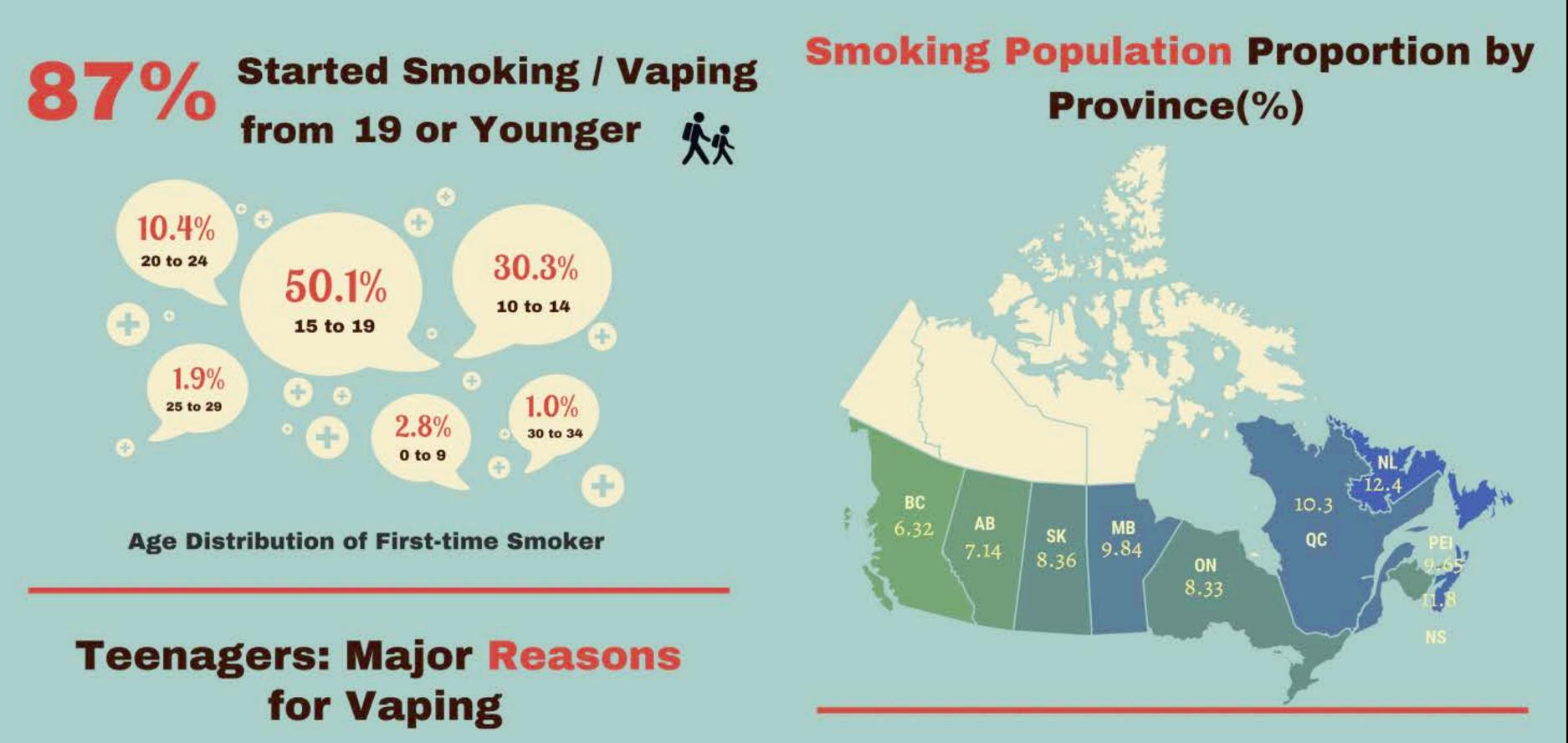


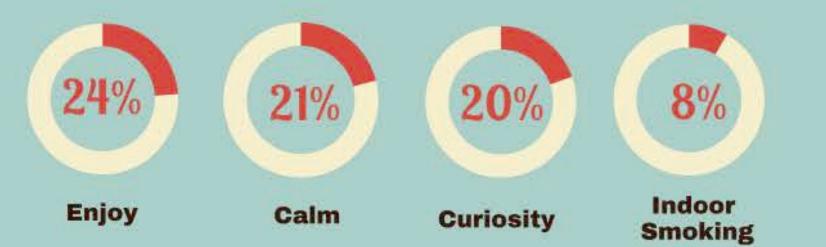
Team Robust

Team 23/27

Tobacco control in Canada —

Starting from reducing tobacco exposure in teenage groups







Where do they obtain vaping device?

Most of vaping device come from...

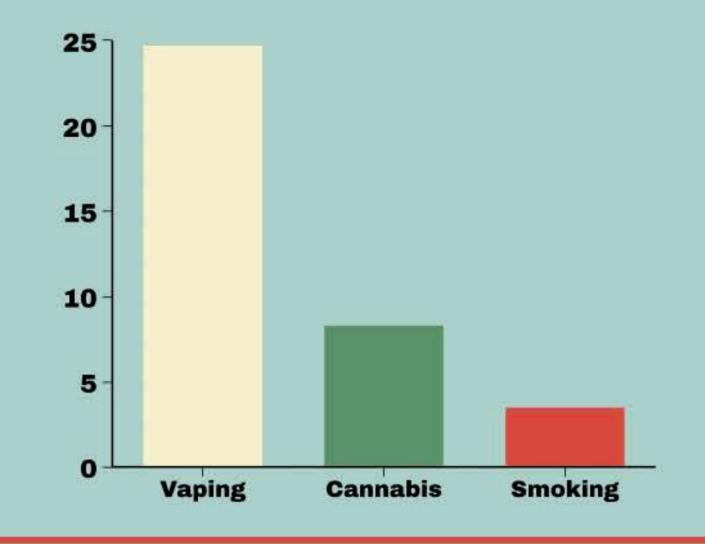
1. Family and friends			37.1%
2. Vaping shop		26.8%	
3. Convenience store	15.3%		

Attitudes towards vaping vs smoking?



21.4% at least once a week Majority of people 78.6% **Smoke Everyday** Daily

First Tobacco Products Tried by **Teenagers**





CONTROL VAPING ADVERTISING & SALES PROTOCOL

Vaping has become the main trigger for teenagers to smoke; 25% of teenagers tried vaping as their first tobacco product

18% Smoking

More Harmful Than



Don't know

Harm

and 42% directly obtain vaping devices from shops.

Potential Ways to Quit Smoking

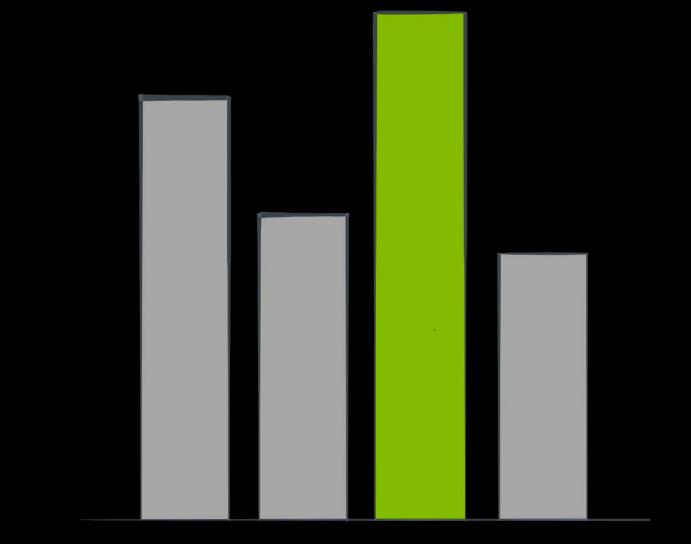


EDUCATING PARENTS & TEENAGERS ON TOBACCO'S DAMAGE

37% of teenagers tried vaping from family and friends' vaping devices, and 43% of teenagers think vaping is less harmful than smoking.



INITIATE SMOKING CESSATION PROGRAM & DECREASE TOBACCO PRODUCTS EXPOSURE ON SOCIAL MEDIA



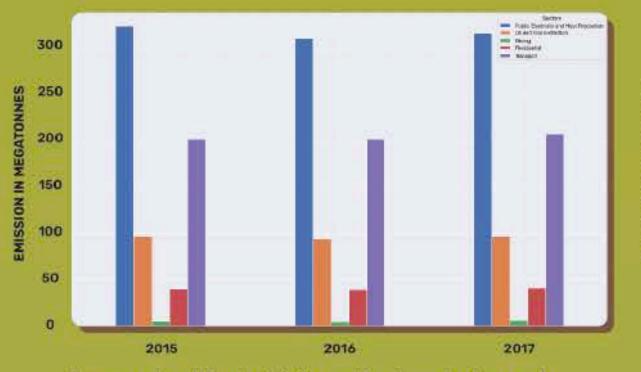
Team Rocket

Team 24/27

CANADA GREENHOUSE GAS EMISSION STUDY

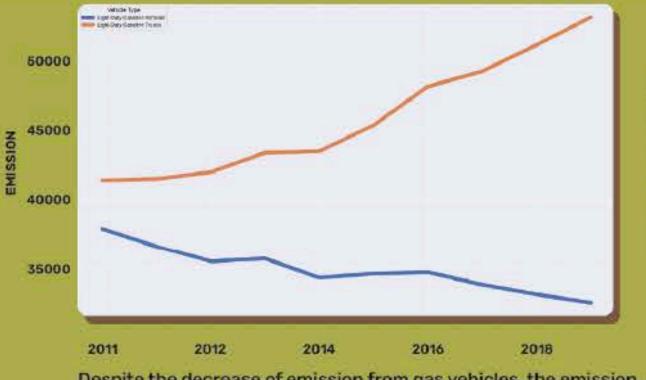
(EMISSION IN MEGATONNES)

2015-2017 GHG EMISSION BY SECTORS



In general, public electricity and heat production and transportation count as the largest portations for GHG emmision in Canada.

2011-2019 GHG EMISSION LIGHT-DUTY GASOLINE VEHICLES VS LIGHTODUTY GASOLINE TRUCKS



Despite the decrease of emission from gas vehicles, the emission from gas trucks has been increasing drastically through the years.

2019 GHG EMISSION BY CATEGORY BC VS AB

2011-2019 GHG EMISSION BY SOURCE

00

0.7

65.7

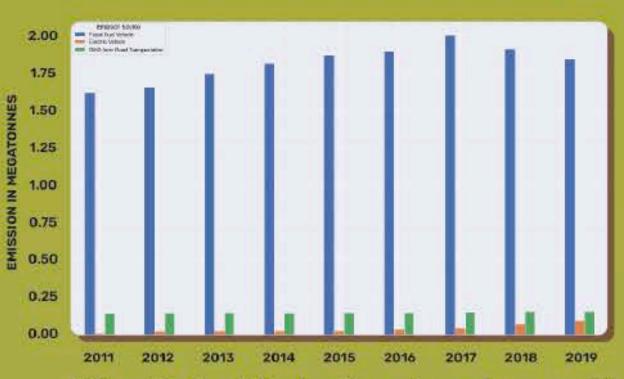
275.8

74.8

0.7

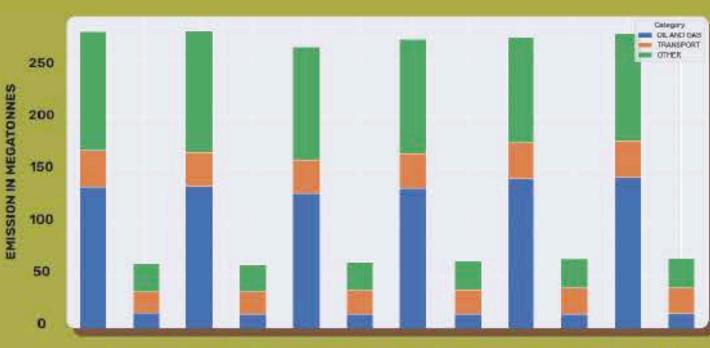
22.6

163.2



While emission from EV has been increasing year by year possibly due to the incentives, the emission from fossil fuel vehicle has only been decreasing since 2017.

EMISSION BY CATEGORY 2014-2019 IN BC & AB



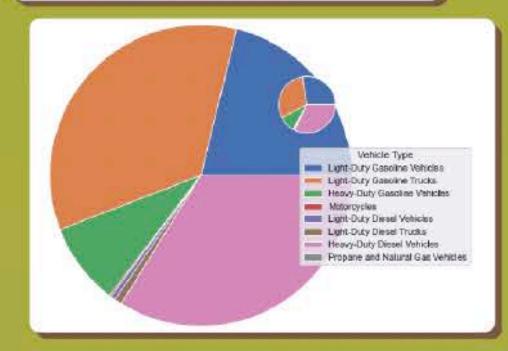
2014AB 2014BC 2015AB 2015BC 2016AB 2016BC 2017AB 2017BC 2018AB 2018BC 2019AB 2019BC

Even though AB and BC have similar population, the green house emission levels are significantly different.

DATA SOURCES:

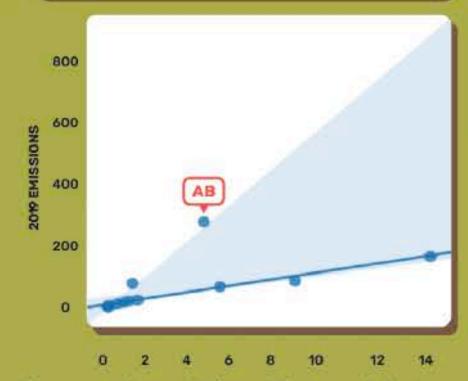
OAD TRANSPORTATION GHG EMMISION BY VEHICLE TYPE 2010 V.S. 2019

83.7

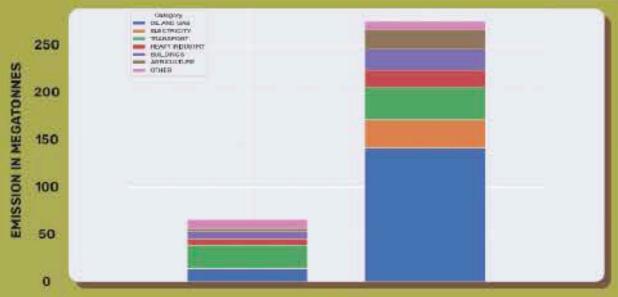


There has been a shift in the emmision by vehicle type from 2010 to 2019: light-duty gas vehicles decreased from 28% to 21% while light-duty gas trucks increased from 30% to 35%.

2019 CANADA POPULATION BY PROVI-ENCES V.S. EMISSIONS BY PROVIENCES



Linear regression model of population v.s. emission by proviences indicating Alberta as the only outlier despite the assumption that the population and emission are positively correlated. Possible explanation could be the dominance of oil and gas industry in Alberta.



2019 GHG EMISSIONS FOR BC 2019 GHG EMISSIONS FOR AB

While the emmision by category in BC is nearly evenly distributed with emmision from transpotation being the largest, a signifcant portion of emmision in AB is from oil and gas. This can be justified since AB is known as the oil and gas province in Canada. Government of Canada. (2021). Greenhouse gas sources and sinks: executive summary 2021. Government of Canada.

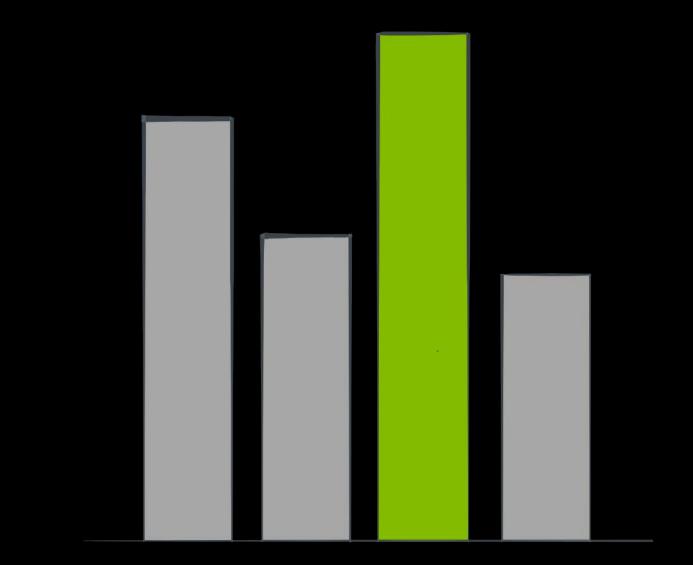
Environment and Climate Change Canada. (2021). National Inventory Report 1990 – 2019: Greenhouse Gas Sources and Sinks in Canada. Government of Canada, Environment Canada, Greenhouse Gas Division.

Team Rocket:

Adrian Peng, Winston Peng, Eva ma, Jack Hong



The Visionaries



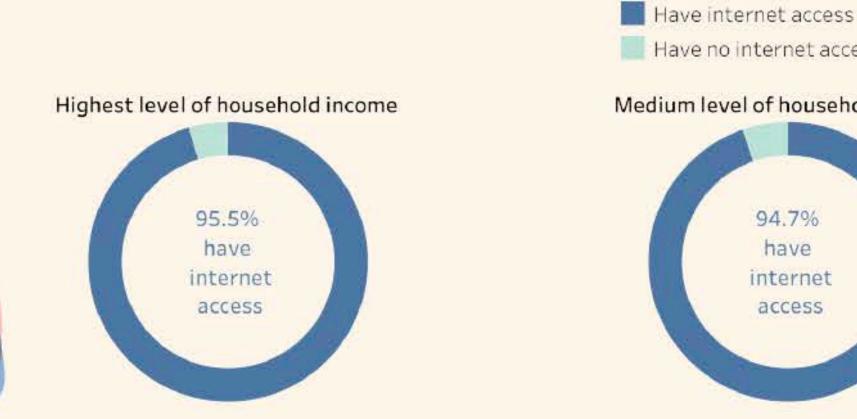
Team 25/27

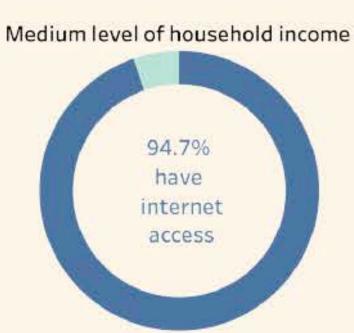
How is internet access affecting remote learning in NB?

By: The Visionaries

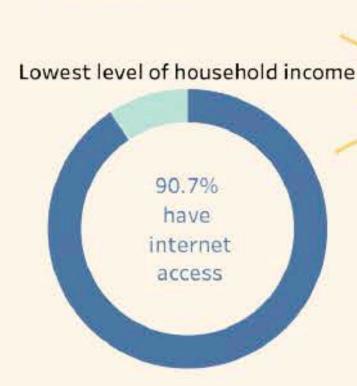
Does the level of income affect the internet access in Canada in 2018?

Have no internet access



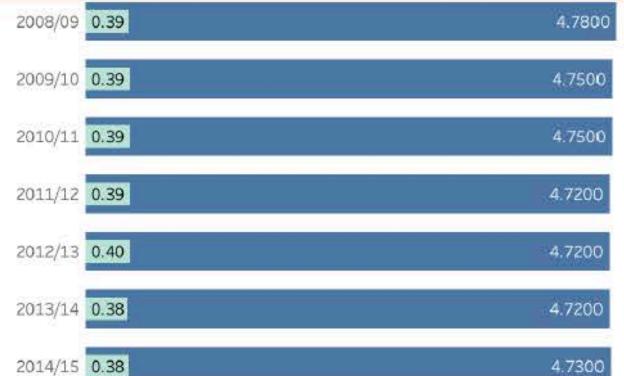


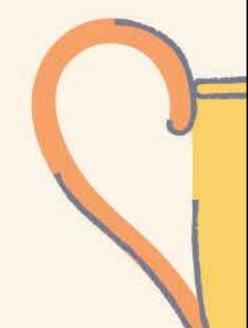
UDENTS



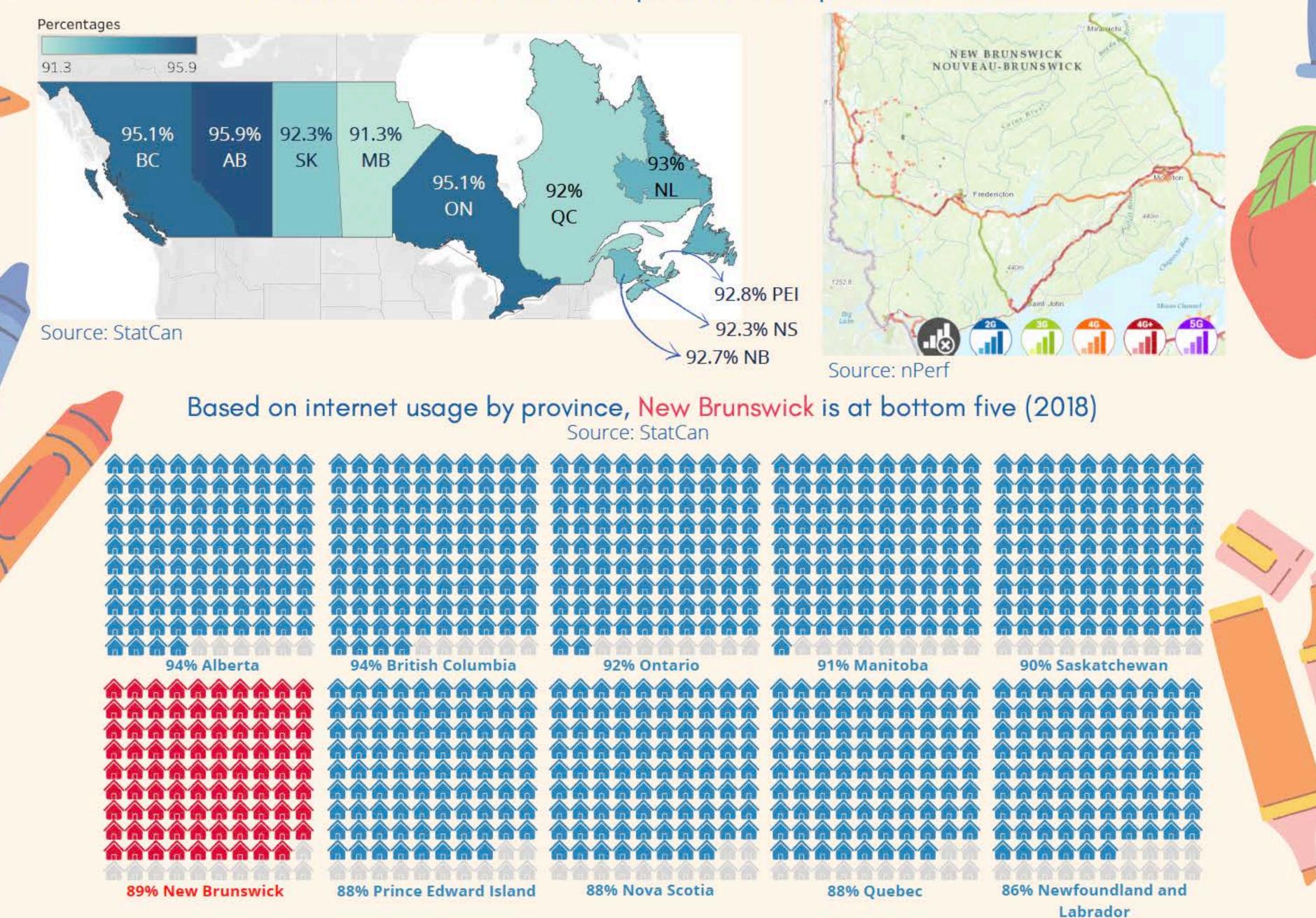
Source: CIUS

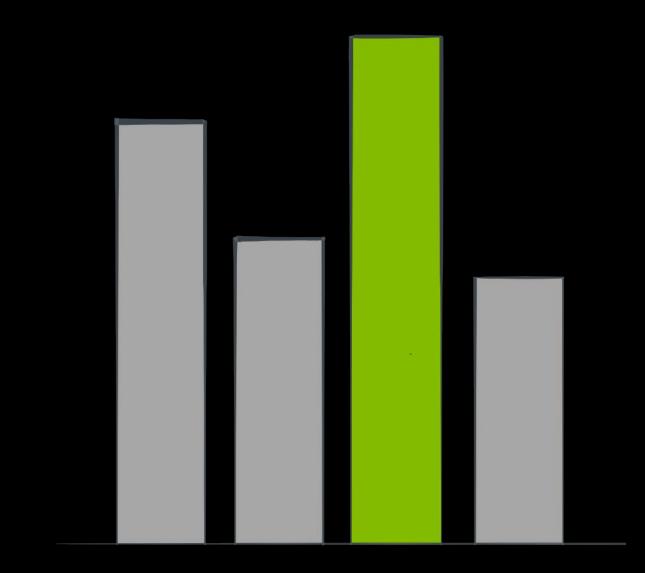
EACHERS Is it sufficient enough to 2009/10 0.39 4.7500 have approximately the 2010/11 0.39 4.7500 same number of teachers 2011/12 0.39 4.7200 for the increasing trend of 2012/13 0.40 student enrollment in public 4.7200 elementary and secondary 2013/14 0.38 4.7200 school in Canada for better 2014/15 0.38 4.7300 Quality of Education? 2015/16 0.38 4.7500 Students and teachers are 2016/17 0.39 4.8100 in Millions. 2017/18 0.39 4.8600 Source: Statista 2018/19 0.40 4.9200





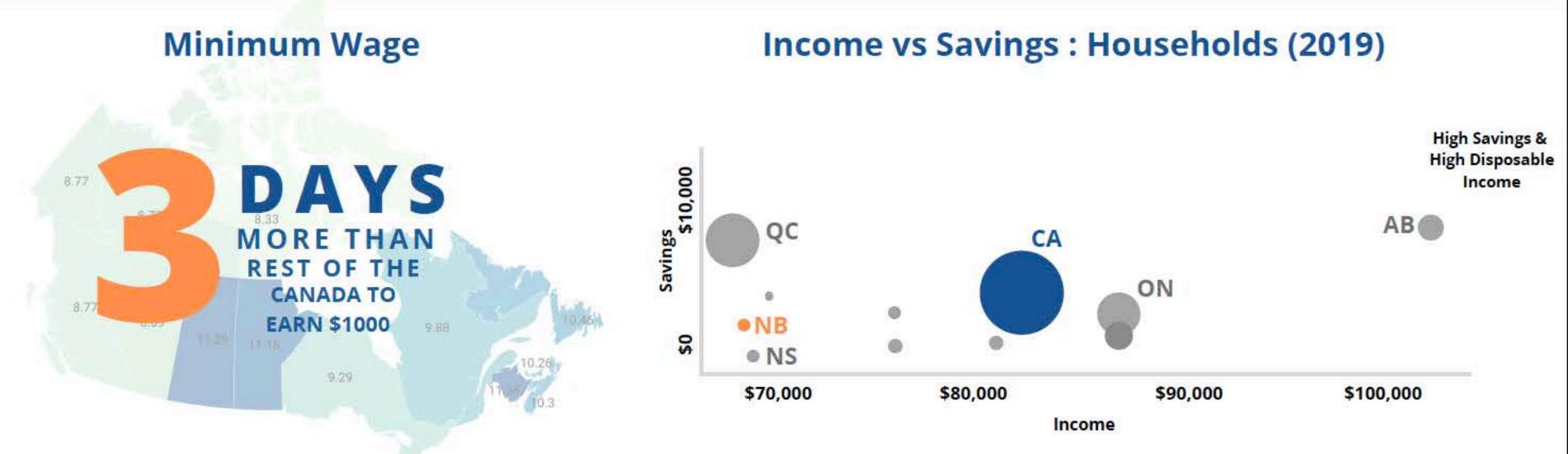
Is the poor network coverage a reason for New Brunswickers to have less access to the internet at home in Canada compared to other provinces in 2020?



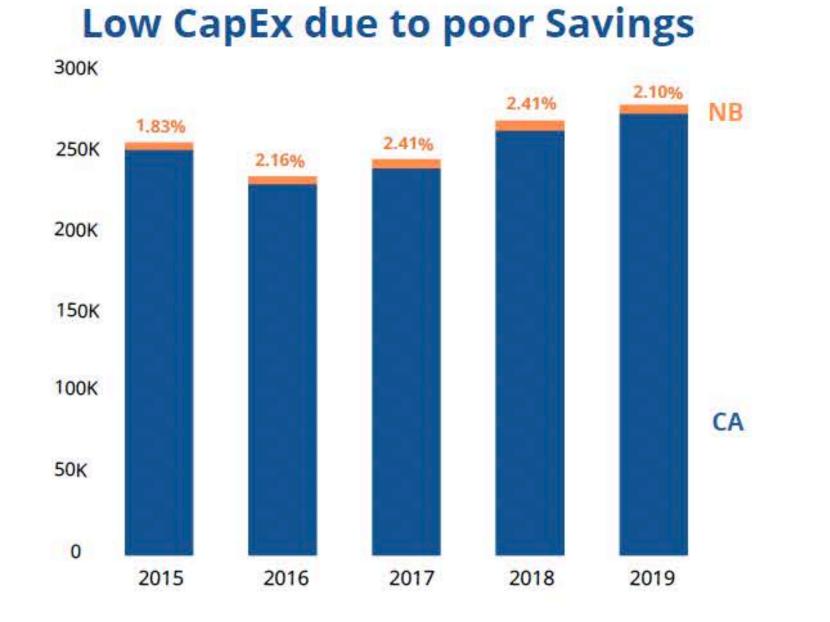


Team 26/27

NB: Stuck in Loop?



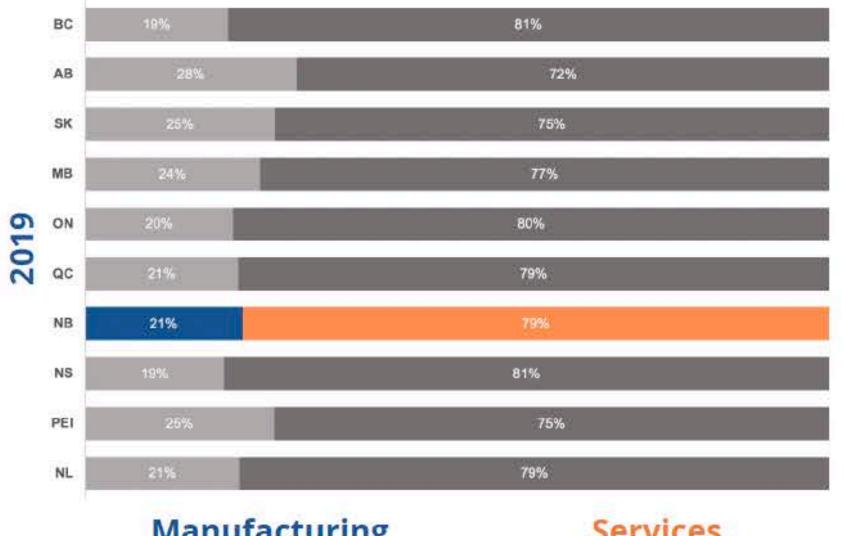
NB has the lowest minimum wages in Canada. As a result, one of the lowest earnings & savings!

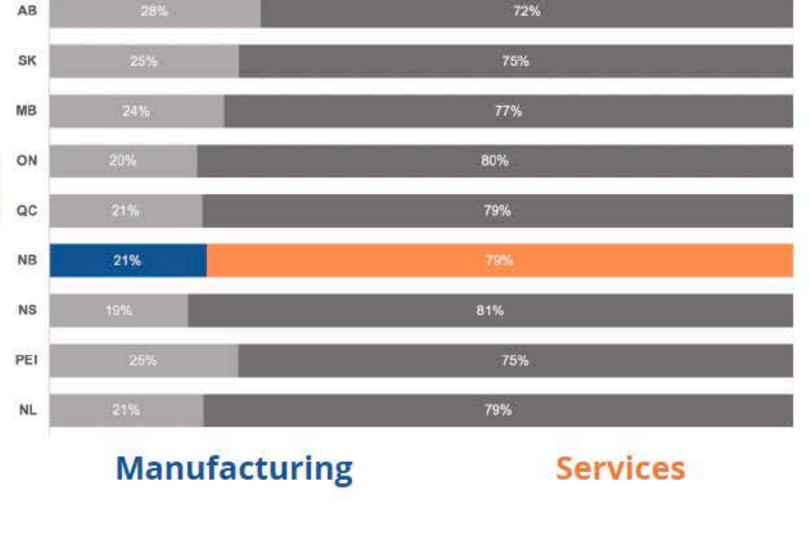


GDP by Employed persons (X1000)



Industry Classification by Employment





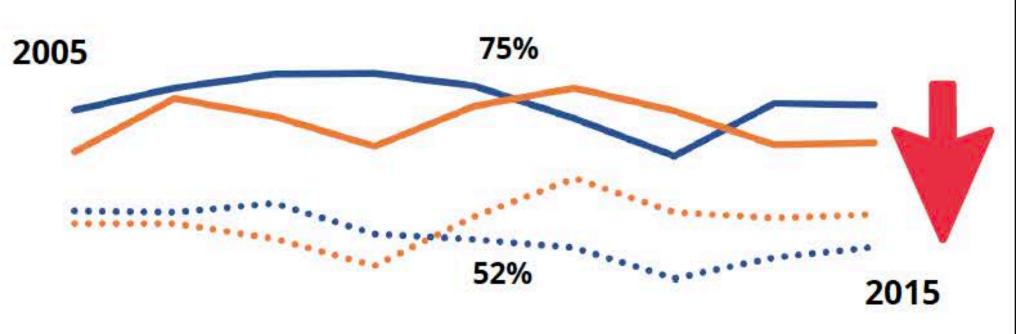




Due to low investment in NB, there is low diversification of industries and low GDP/Employee (SDG 8.2). One of the primary reasons for low investment is an old

population and NB's inability to retain migrants due to less opportunities.

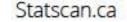




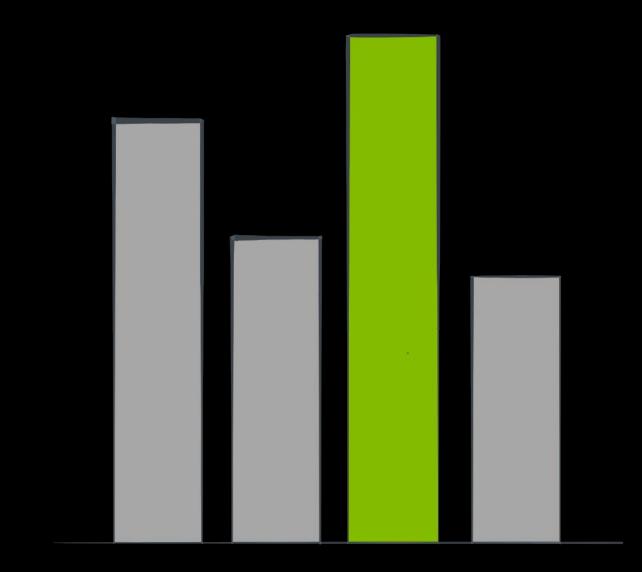


~20% Reduction in Migrant Retention in 5 year periods for business & skilled PNPs.

Aashish Kalra, Anmol Singh, & Shravani Konda



2019



Viztory

Team 27/27



Airbnb **A Business Perspective** by Viztory

All it took was a simple air mattress to spark a rise of this Unicorn start-up to a Travel Giant! Actively spanning 100k cities, 5.6 mil listings, 150 mil users, and 800 mil past visits in the global vacation rental market, this real data is perfect for management decision-making.

1 in 5

HOSTS ARE SUPERHOST the strict criteria giving higher quality of stays, and in turn better ratings.

2 in 5

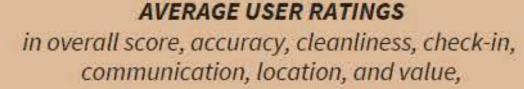


LISTINGS ALLOW INSTANT BOOKINGS a pioneer in smart instant book filters and many periods filled with reinventions 4.756 out of 5

**

ECONOMIC GROWTH

AND INFRASTRUCTURF



The journey to bear the mark of a great host is far from easy.



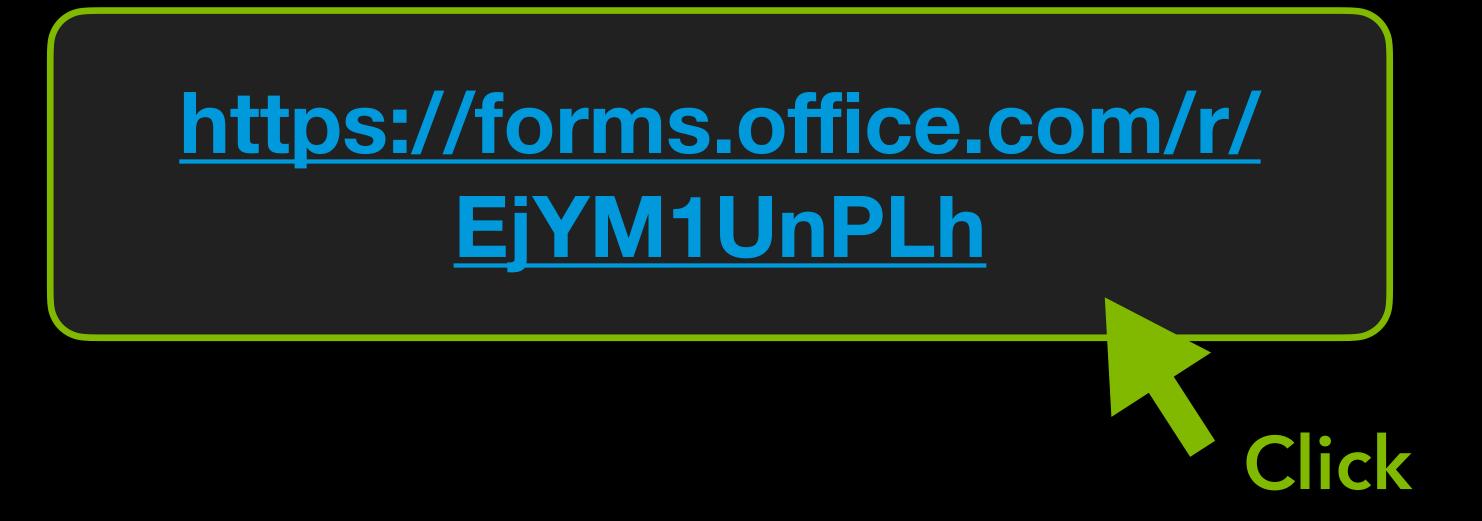


Airbnb spent much time ironing out rulings and finding its place on the global map. With new and changing host rulings to improve scores, and thus changing global regulatory responses that eventually converged to moderately strict regulations. Immediate and obvious progress was seen right the next year! Airbnb is on the right track to greatness by focusing efforts to engage hosts and improve score ratings through continuous support and feedback. Keeping these close to heart, Airbnb can soon normalise the notion that anyone can belong anywhere!

After ironing out new host rulings to Moderately Strict Regulations



Presented by Jenna Gozali, Mun Yin Ting, Neo Ann Yi, Poonam Deshmukh. Who misses travelling? We know we do! A Comparison and Contrasted Perspective of Two Sets of Data - Listings and Reviews - from Inside Airbnb, and the perfect jumpstart for those who have put a pin in travelling plans for far too long. Extracted from https://maven-datasets.s3.amazonaws.com/Airbnb/Airbnb+Data.zip





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