



Week 2

Project Report

May 10 - 16, 2021



Eric, Vicens, and Ben



StatCan Covid-19

Canada Emergency Wage Subsidy

Dashboard and Report

Revised Project

- Report will focus on differences between urban and rural communities.
 - Urban/rural trends by province, agglomeration, and census subdivision
 - What industries were most affected in each type of community?
 - Where are the most subsidized communities located?
- Dashboard will visualize the more general trends
 - How much subsidy money was given to each province/ census agglomeration?
 - How many employees kept their job in each industry because of CEWS?
 - How much subsidy money was given in each claim period?

Last Week Accomplishments

- Developed a number of potential report directions for StatCan to choose from
- Sourced more data and further explored their chosen direction
- Developed a rough draft of the urban/rural report
- Sourced GeoJSON data to create choropleth graphs
- Continued development of the dashboard

This Weeks Goals

- A complete, mostly polished draft of the CEWS report
- Move the whole team onto dashboard development
 - Develop a functional prototype with most of the desired pages complete
 - Overview page, geographic exploration, industry exploration

Roadblocks

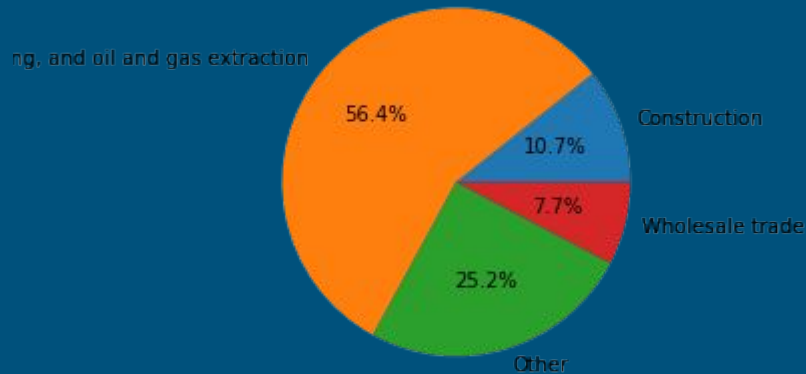
- Mercator projection
- Mixed messages on StatCan's expectations
 - Early on, we were told the majority of our focus should be on the report
 - Now, the majority of our focus should be the dashboard
- Git Horror

Deviations From Initial Plan

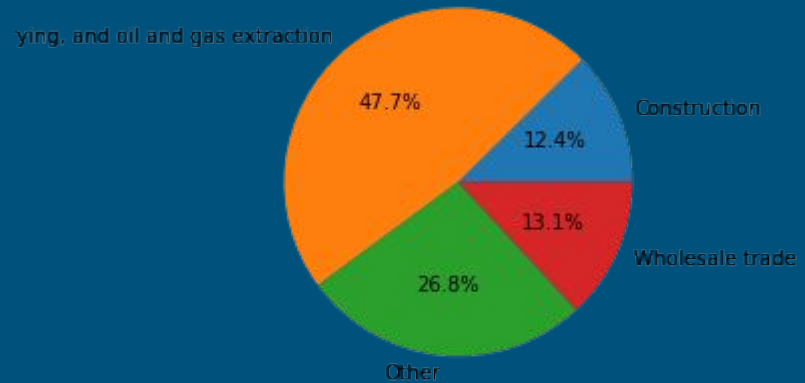
- More time to focus on CEWS.
- Additional focus on dashboard component.
- Any extra time will be used for the API feasibility study.

Preliminary Results

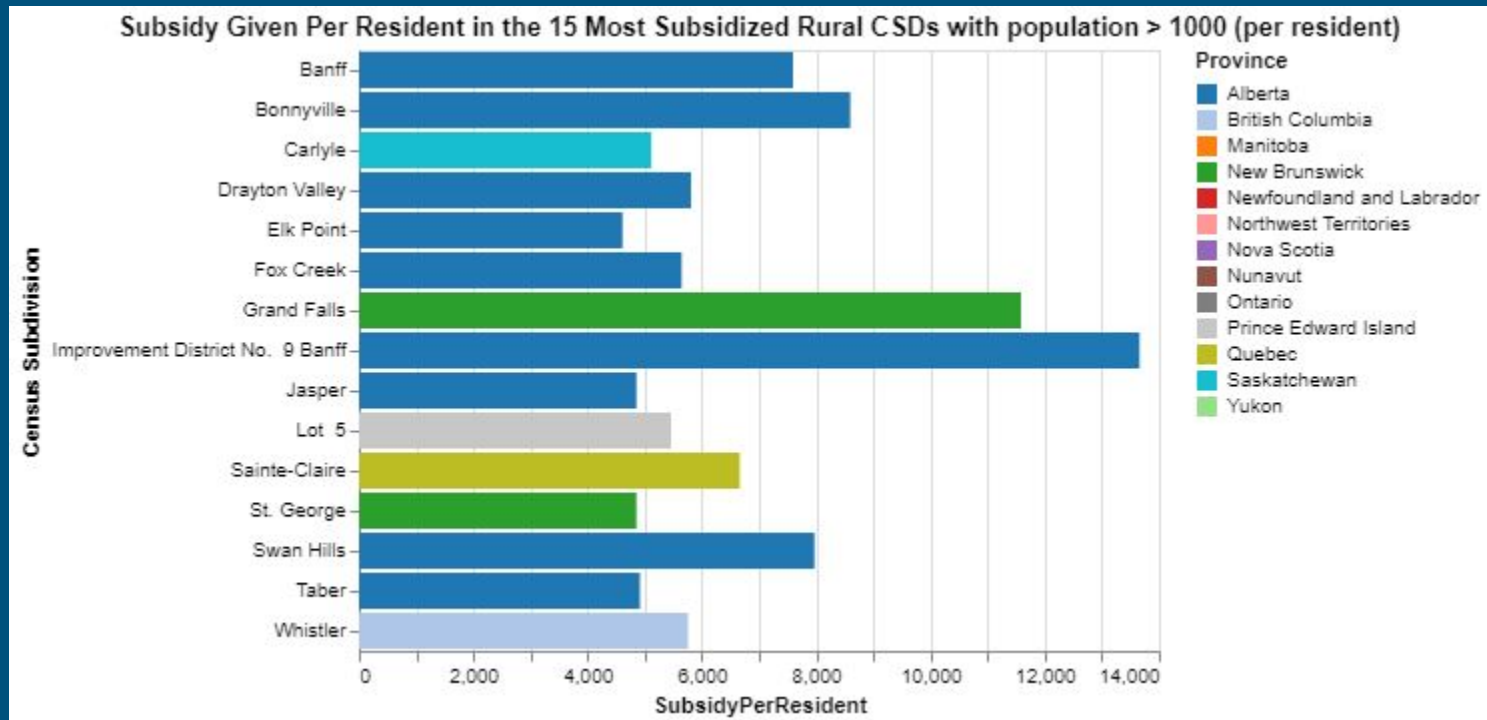
Wood Buffalo Proportion of Subsidies given By Industry



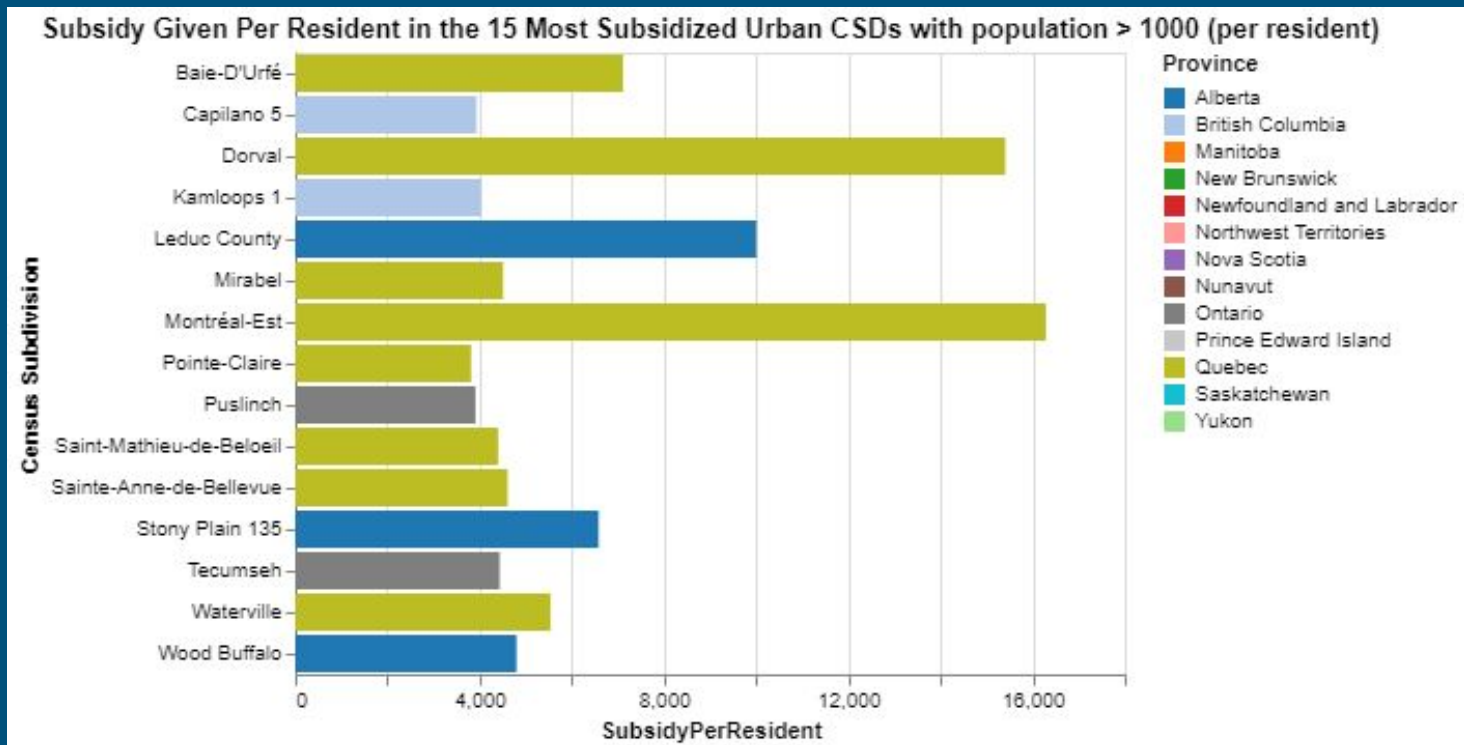
Estevan Proportion of Subsidies given By Industry



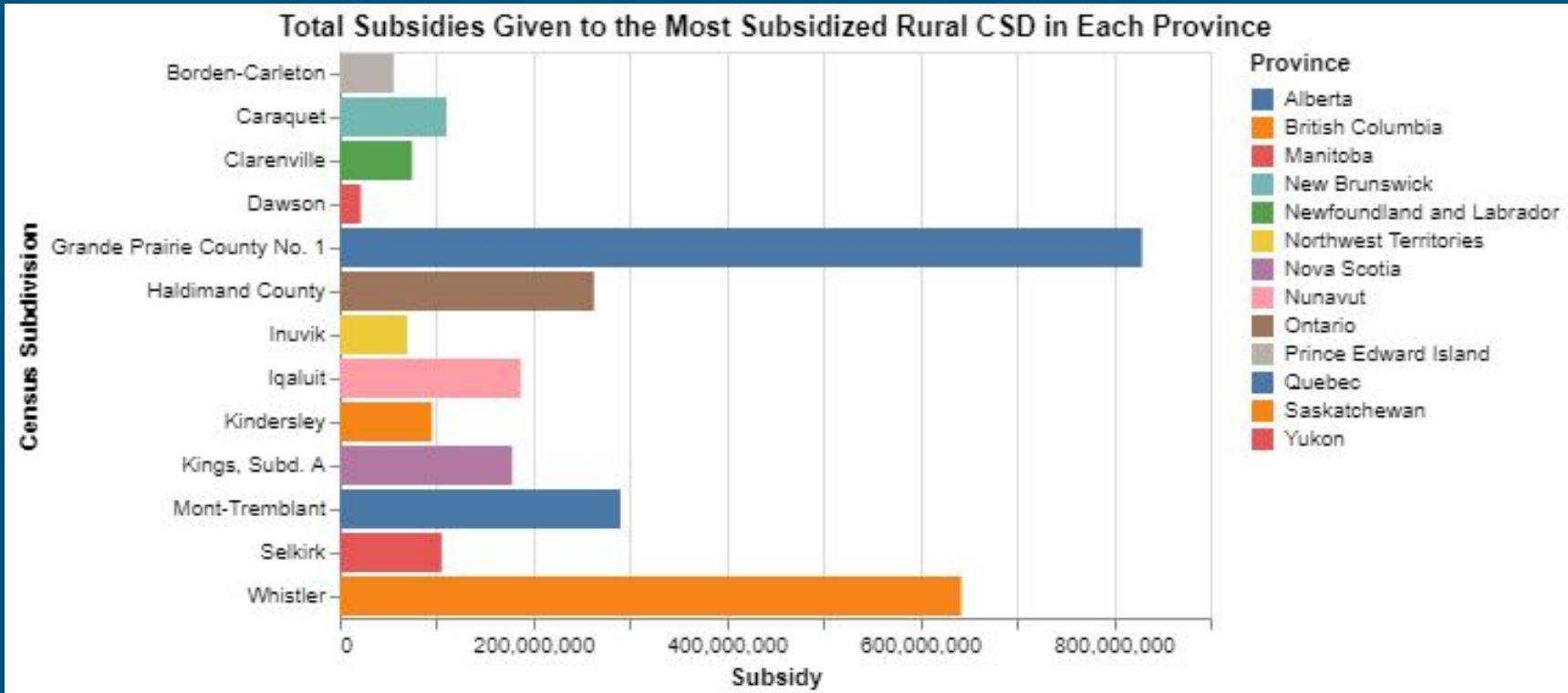
Preliminary Results



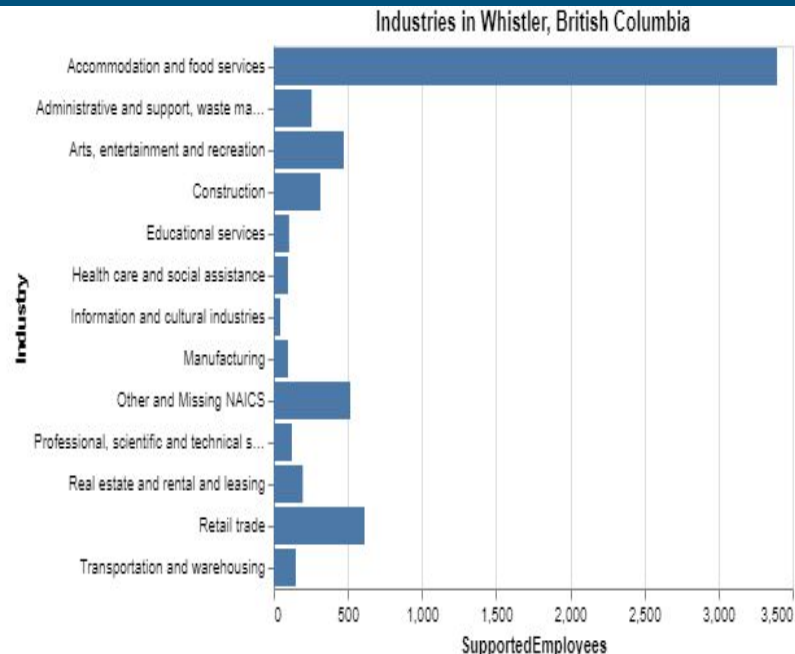
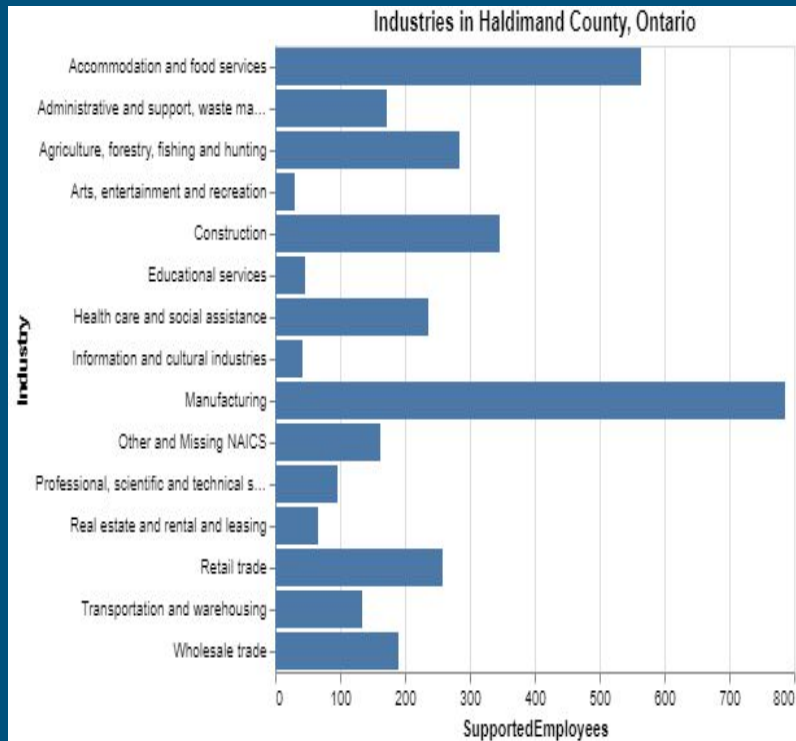
Preliminary Results



Preliminary Results



Preliminary Results



Preliminary Results

CEWS rural/urban breakdown evolution

First eight four-week claim period

Dollar value of subsidies approved

\$10,000,000,000

\$9,000,000,000

\$8,000,000,000

\$7,000,000,000

\$6,000,000,000

\$5,000,000,000

\$4,000,000,000

\$3,000,000,000

\$2,000,000,000

\$1,000,000,000

\$0

Geographic classification

RURAL

URBAN

Mar 15

Apr 12

May 10

Jun 07

Jul 05

Aug 02

Aug 30

Sep 27

Date

CEWS rural/urban breakdown comparison

First eight four-week claim period

RURAL

URBAN

\$0

\$2,000,000,000

\$4,000,000,000

\$6,000,000,000

\$8,000,000,000

Dollar value of subsidies approved

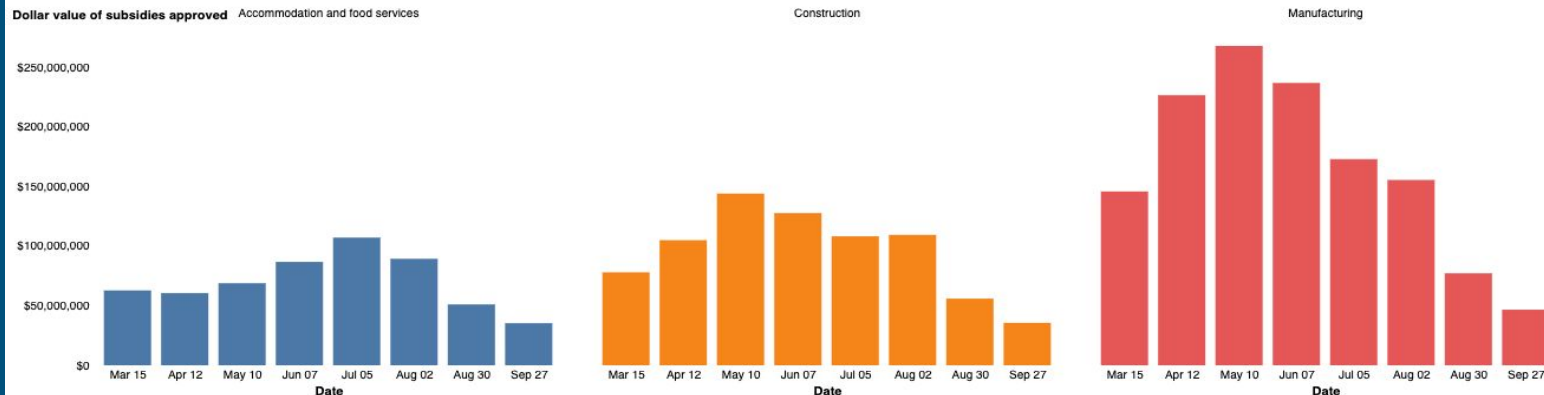
Preliminary Results

CEWS most supported rural industries evolution

First eight four-week claim period

Industry
■ Accommodation and food services ■ Construction ■ Manufacturing

Dollar value of subsidies approved



CEWS average proportion of employees supported

First eight four-week claim period

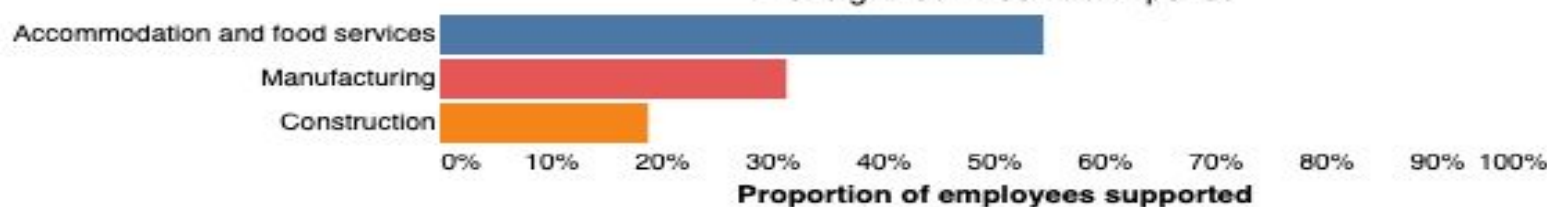
Accommodation and food services

Manufacturing

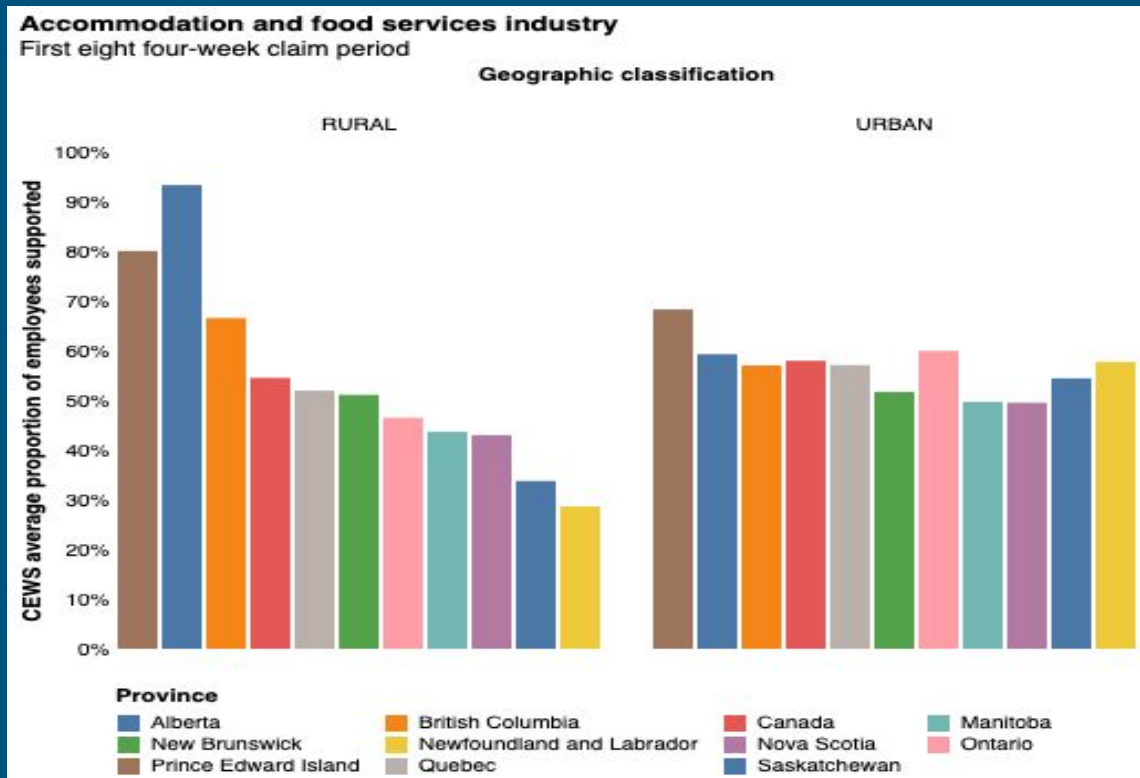
Construction

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Proportion of employees supported

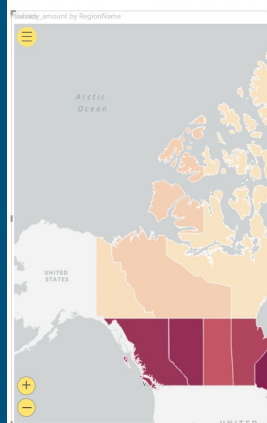


Preliminary Results

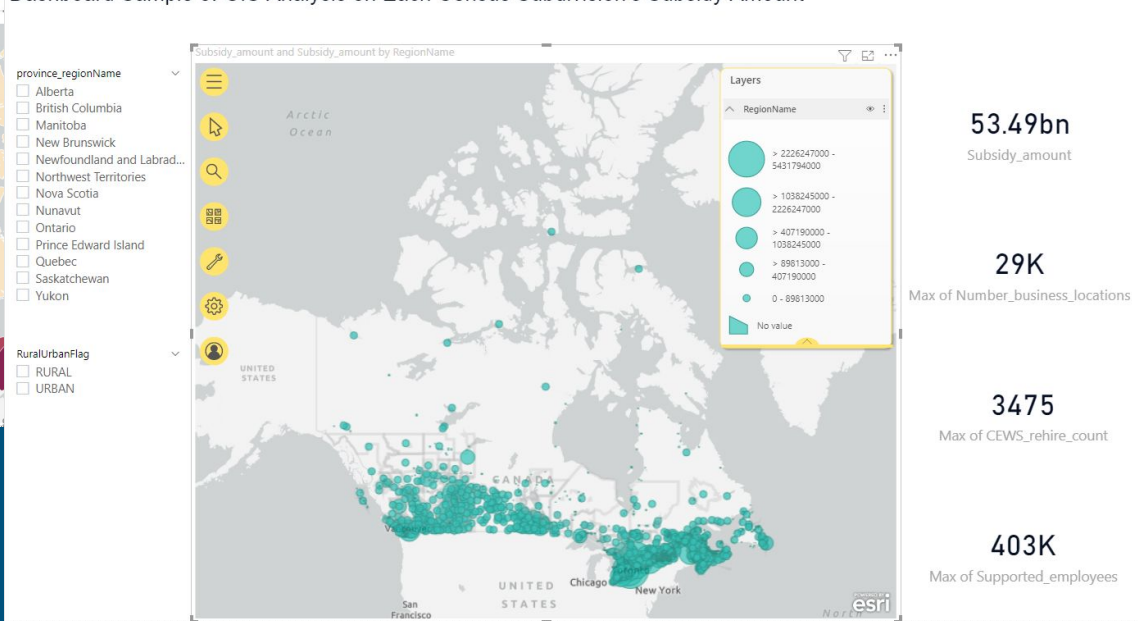


GIS Analysis - Work Demo

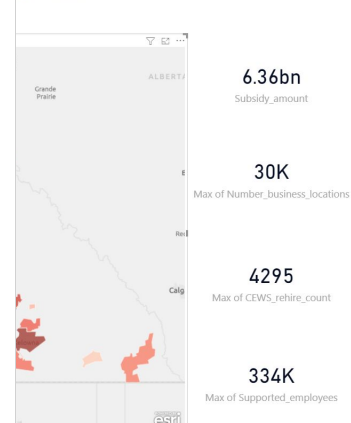
Dashboard Sample 1: GIS Analysis on E



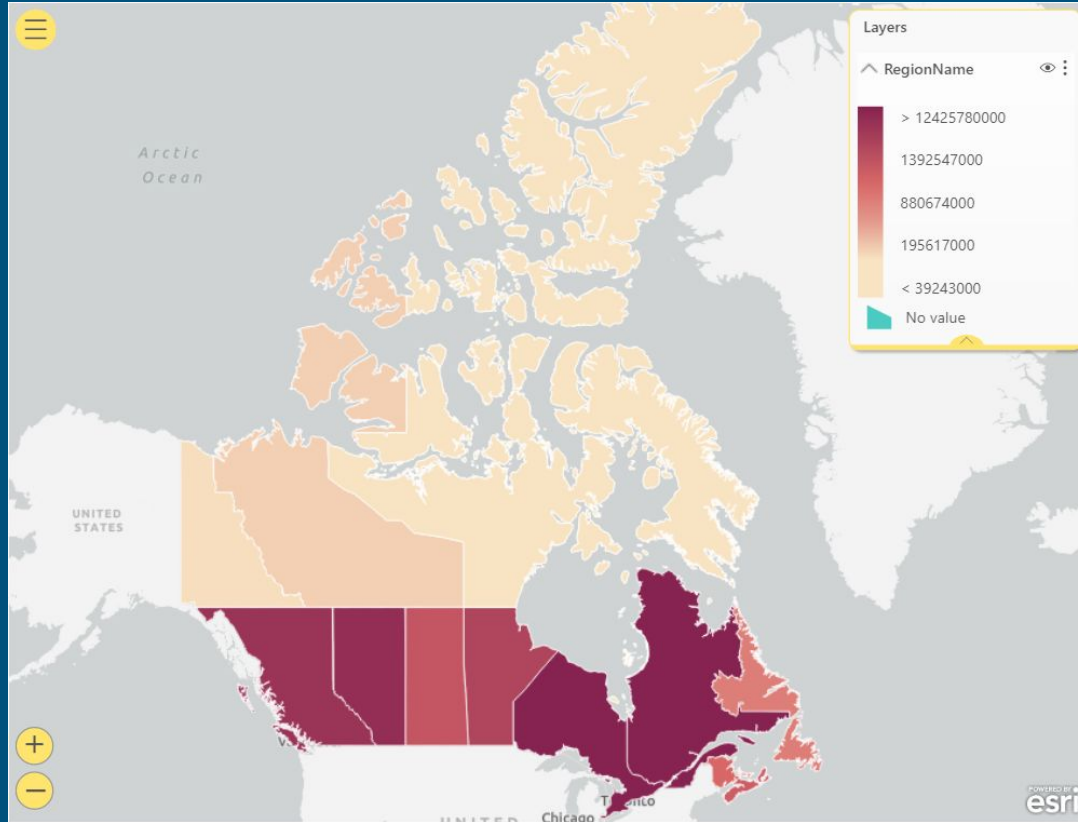
Dashboard Sample 3: GIS Analysis on Each Census Subdivision's Subsidy Amount



dy Amount



GIS Analysis - Client's Preferences



GIS Analysis - My Solution

- Convert the mercator projection to Orthographic projection.

But how ?

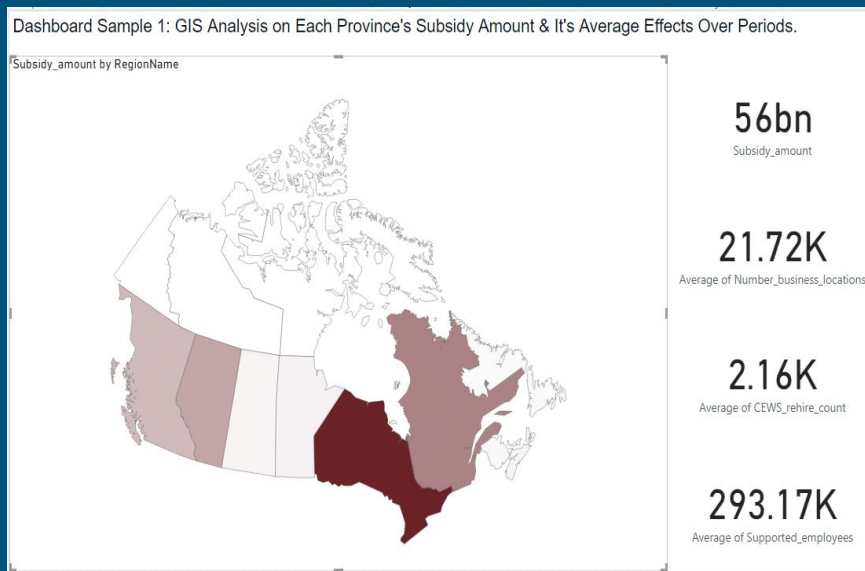
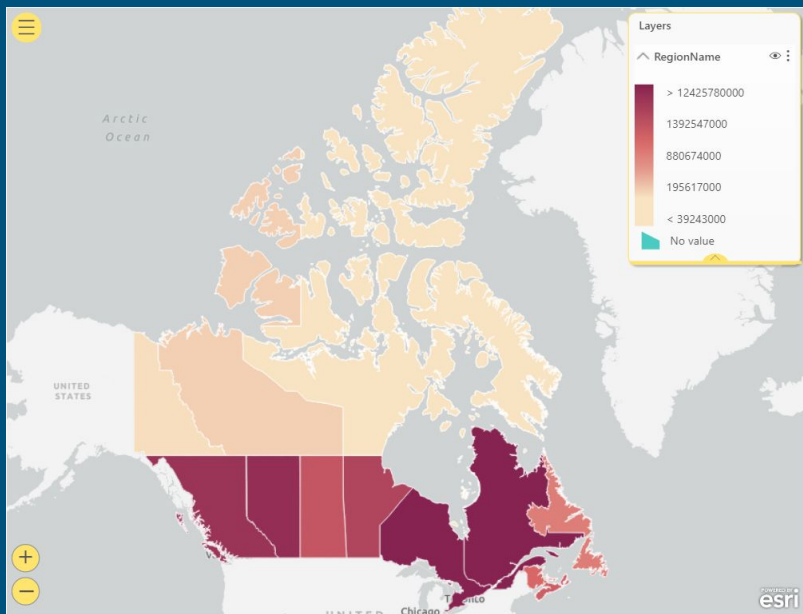
- Problem:
UBC alumni email cannot be used to sign in the power BI account and use the complete arcGIS functions.
- Current Solution :
Use one of the preview functions in power BI - **shape map**

GIS Analysis - My Solution

Mercator Projection

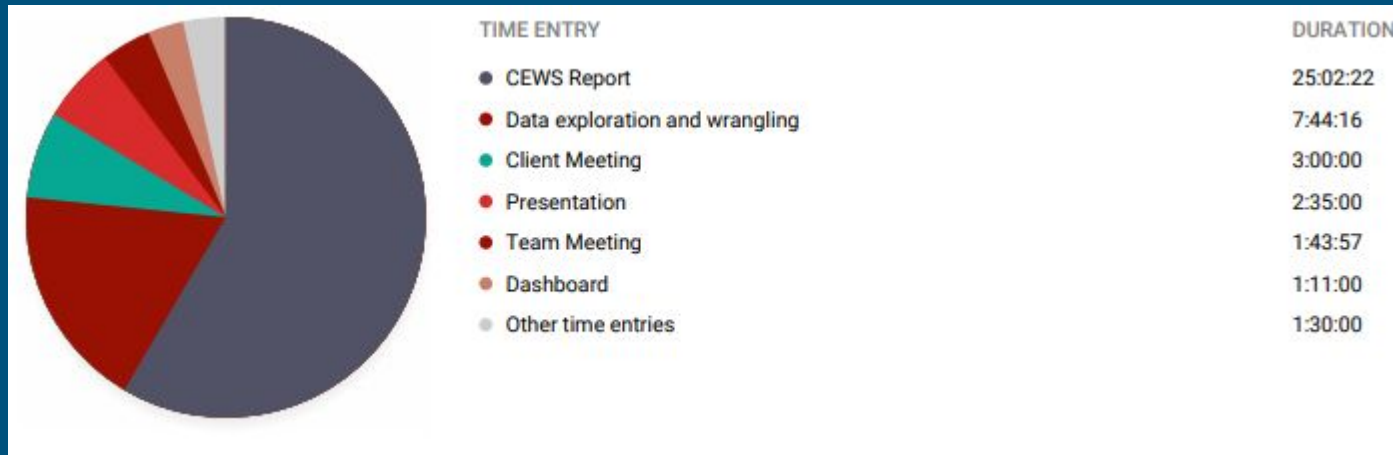


Orthographic Projection



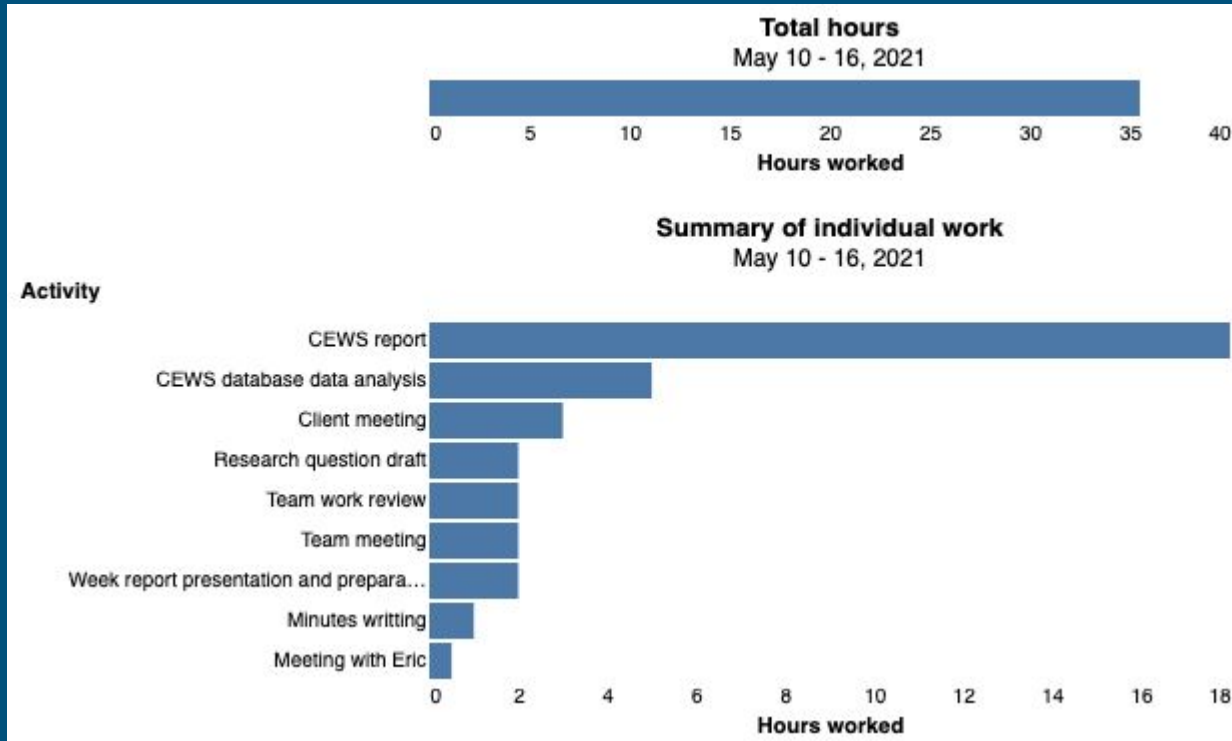
Summary of Individual Work

Eric



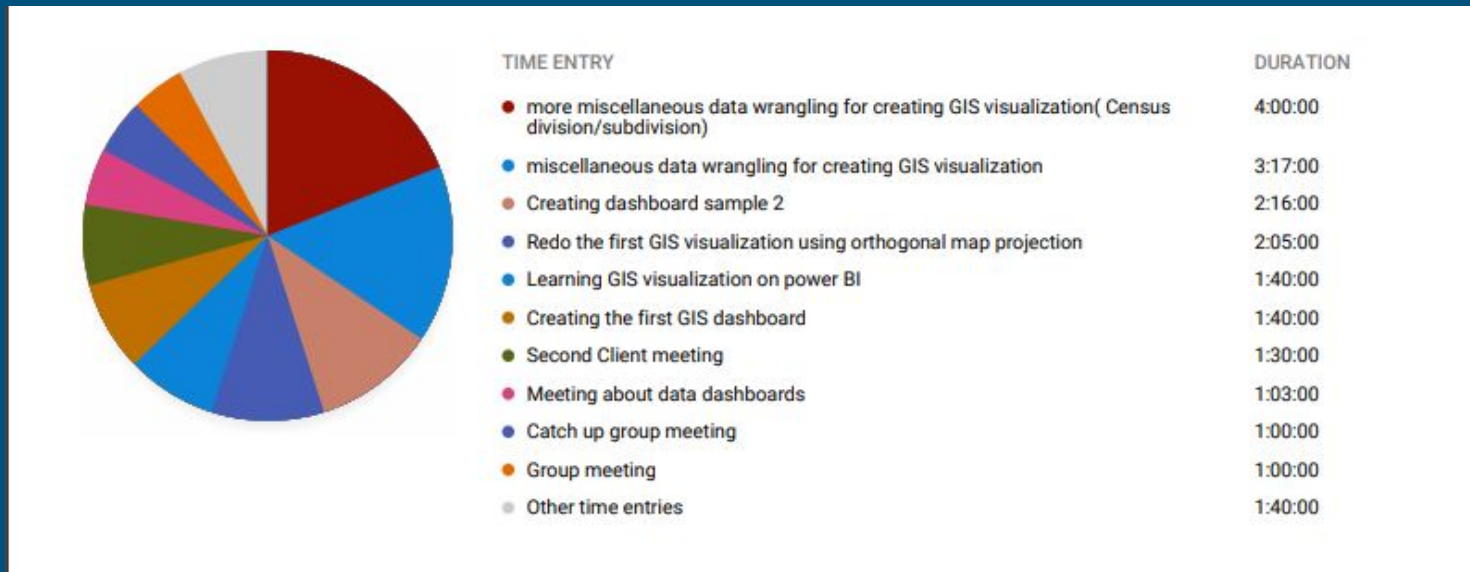
Summary of Individual Work

Vicens



Summary of Individual Work

Ben:



Client minutes

https://github.com/ubco-mds-2020-labs/w2020-data599-capstone-projects-statistics-canada-covid-19/blob/main/meeting-logs/partner_meeting_week2.md



Thank You