DATA 101 – USE DATA TO YOUR ADVANTAGE

Mike Stolte - mstolte@theCIEL.com www.theCIEL.com - January 24, 2024

ETSI-BC
CFDC East Kootenay



"Magic is the act of making the invisible visible"

Paulo Coelho

Making the Invisible Visible

Uncovering the Magic in Your Community

Oct. 27, 2022 Power to the People Bankstown, NSW

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Agenda

- 1. Intro Poll
- 2. Population Exercise
- 3. "Can't measure, can't manage" Why data is important
- 4. DFAP Four important steps (Determine, Find, Analyze, Present)
- 5. Dirty Dozen Intro to key concepts
- 6. Health of community exercise
- 7. Challenges of data in small (and not-so-small) communities
- 8. Intro to data sources
- 9. Conclusion

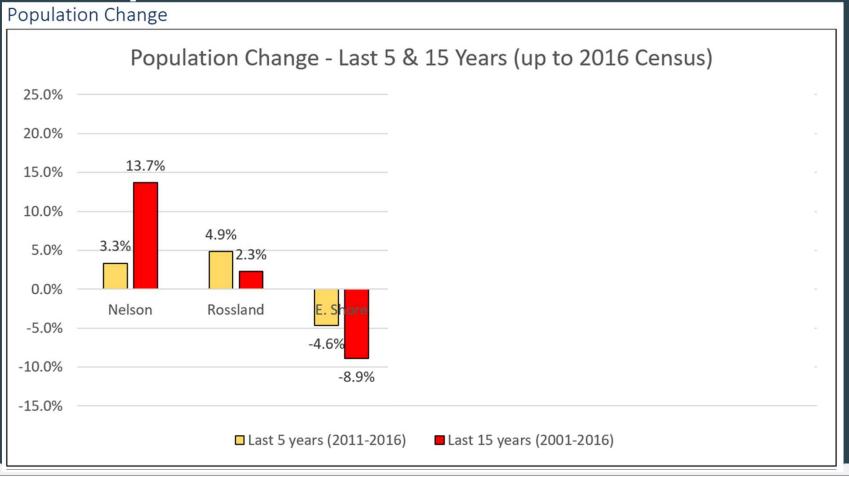


What is population of Rossland, BC? Or Armstrong, BC?

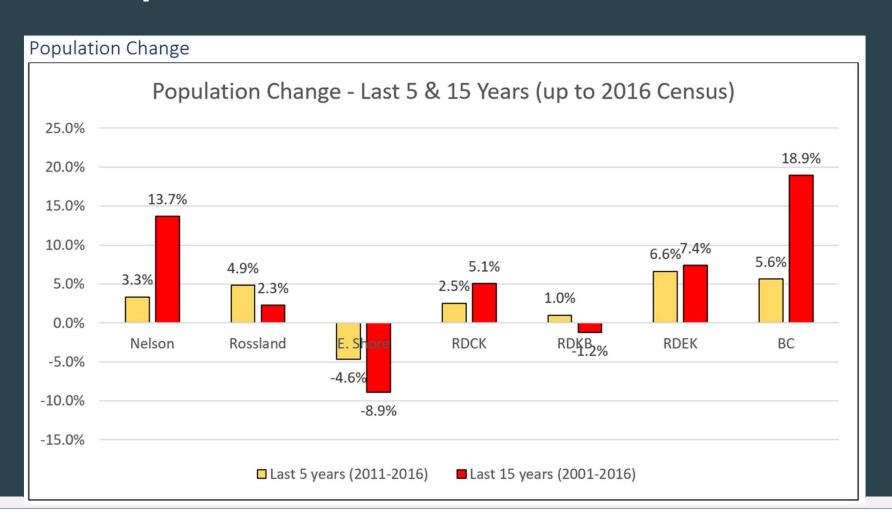
- What do you want data for?
- Trading area
- Catchment area
- Old Census data (May 2021)
- Undercount because people don't want to be counted
- Are you looking at trends, growth, etc.



Know what you want it for; Provide Context



Know what you want it for; Provide Context



"Can't measure, can't manage."

- Numbers, stats and data make life easier
- Increasingly, decision-makers demand/need data to support decisions
 - Covid impact locally
 - Performance & Evaluation as you're designing a program think of the end in mind (outcomes vs outputs - what key numbers can you move/impact?)
- First use of statistics use came in 1744 Scottish
 Preachers Widows' Pension Fund*

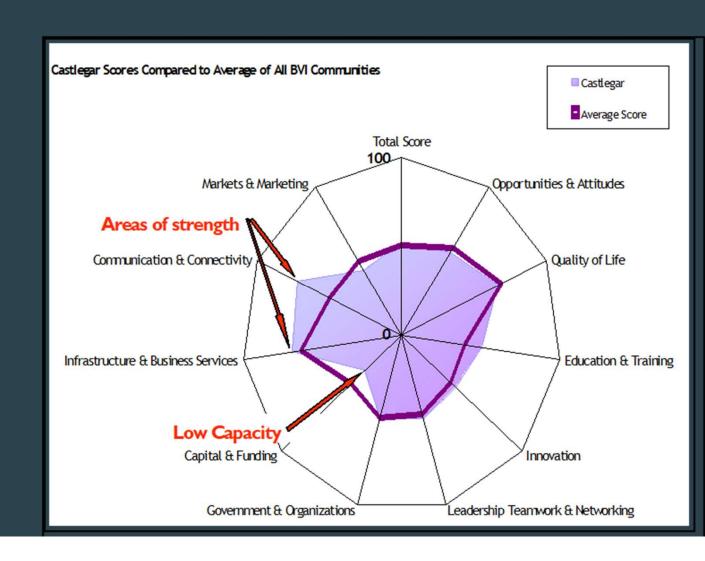


* More on Scottish Widows' in *Sapiens* - Yuval Harari - https://lookup.london/history-scottish-widows

Telling the Story with Data

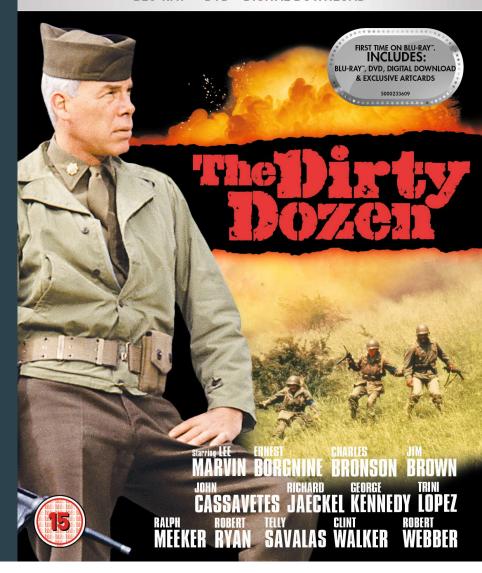
4 Important Steps

- D Determine what you need
- F Find it (or **create** it)
- A Analyze it
- P Present it
- QUICK POLL!

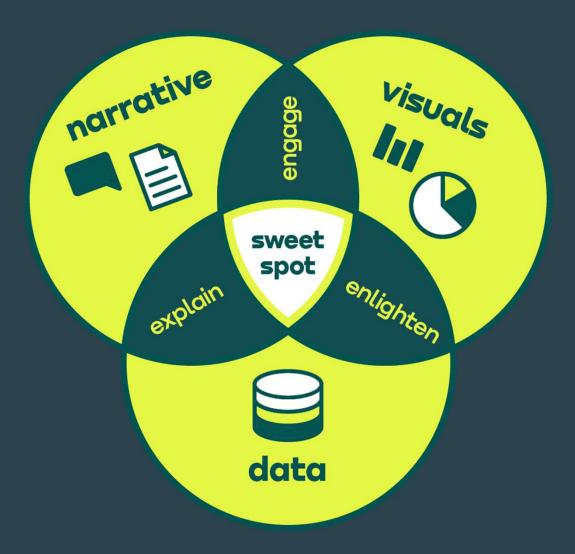


The Dirty Dozen of Data

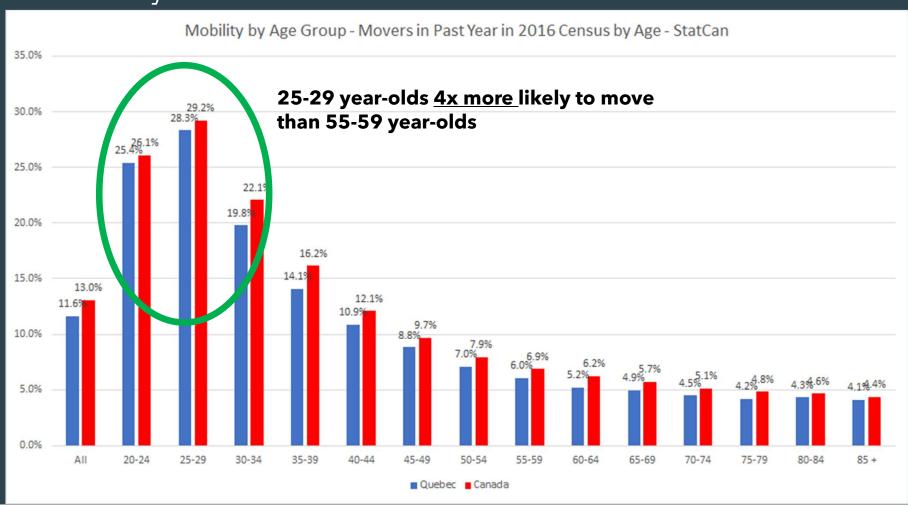
PREMIUM COLLECTION BLU-RAY" + DVD + DIGITAL DOWNLOAD



1. Data is your friend!



2. Assume your audience is innumerate



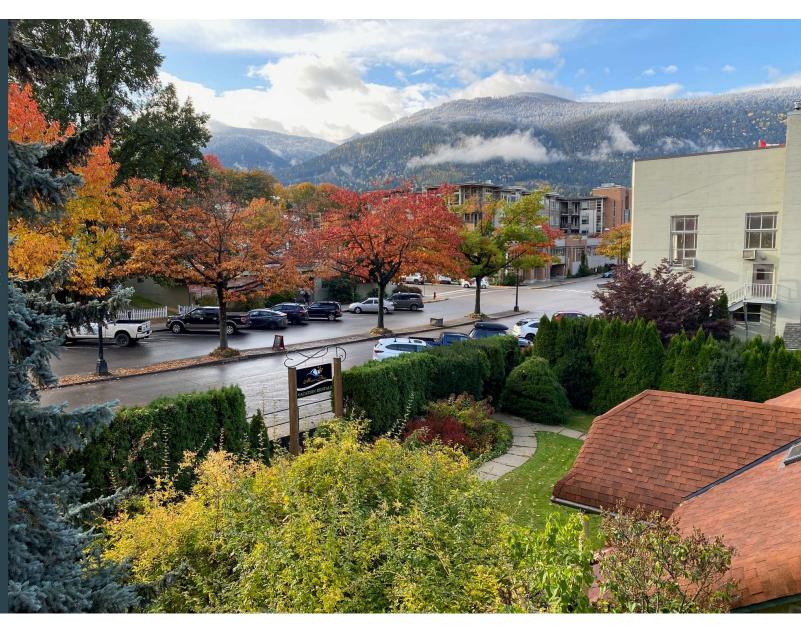
3. Indicators only indicate

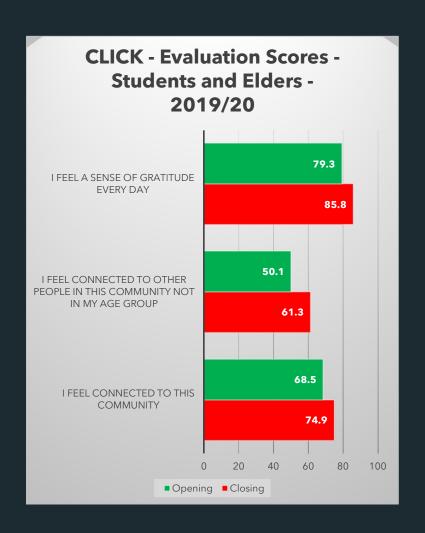
What I could find out:

- Low GDP/per capita
- High unemployment
- & welfare rates
- Poor air quality

What I discovered:

- Energetic and vital
- Inclusive
- Super friendly



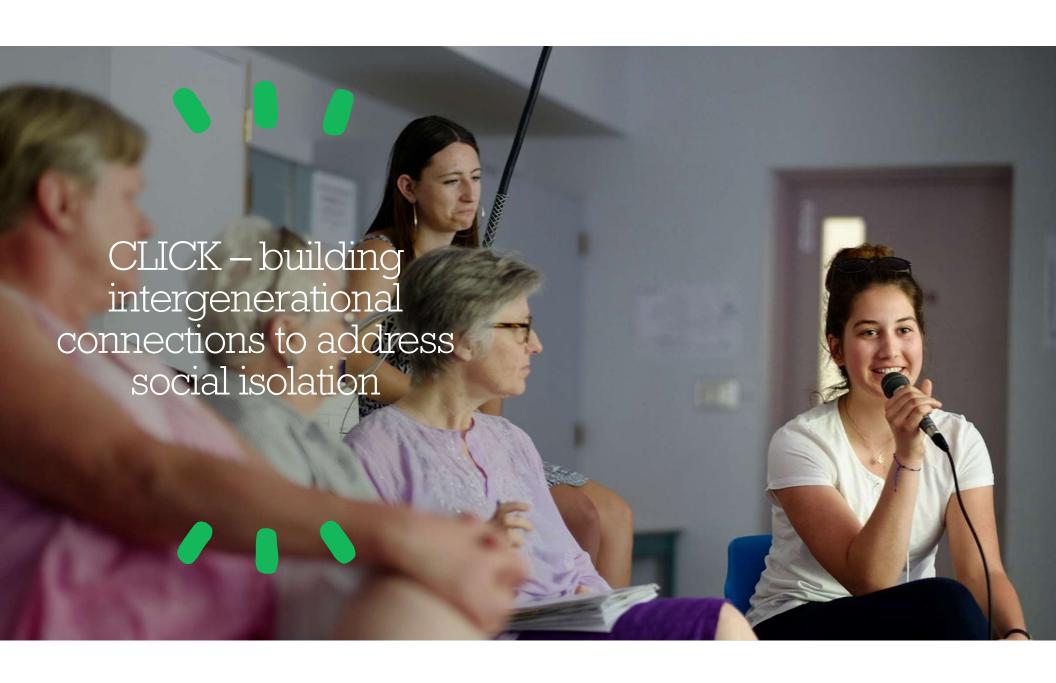




4. Be able to tell the story...

With stories & statistics



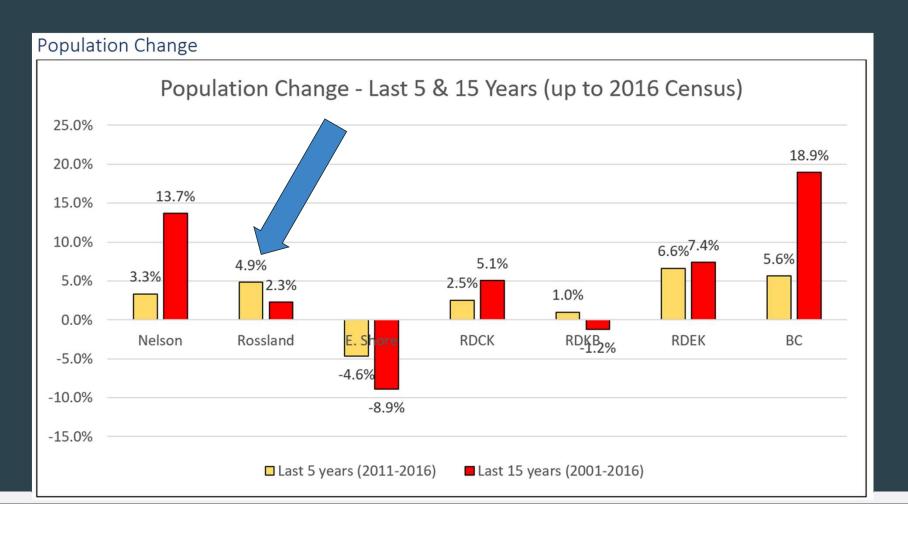




6. We tend to overemphasize things we can count



7. Offer reference points



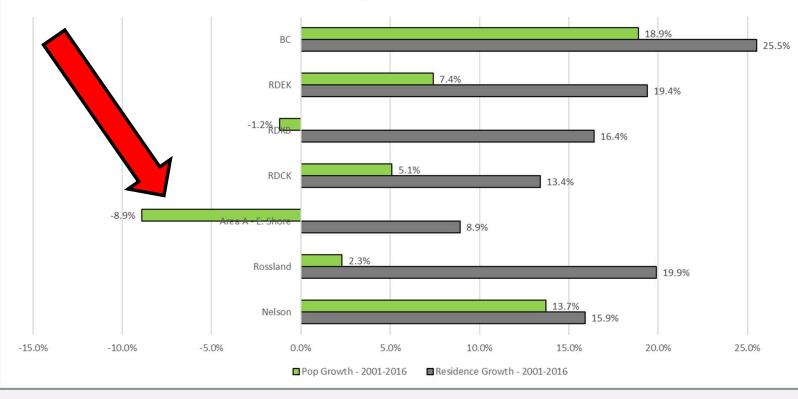


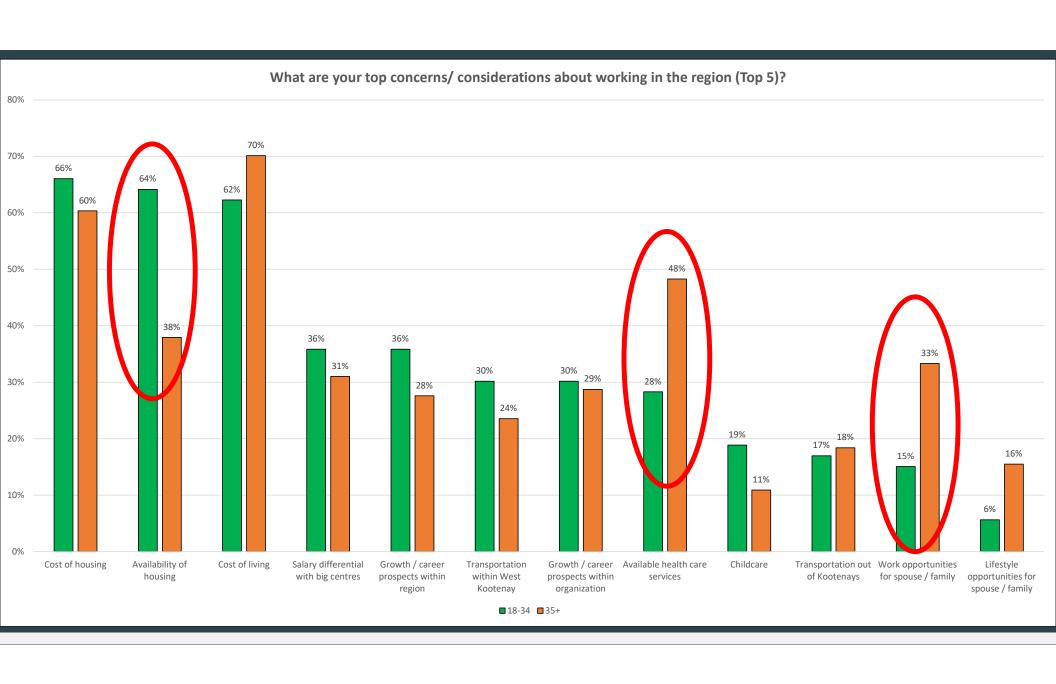
8. Stolte's 3 Sssss

- Salient
- Surprising
- Sexy

Growth in Residences vs Growth in Population Over 15 years (2001-

2016); Source Statisitics Canada Census

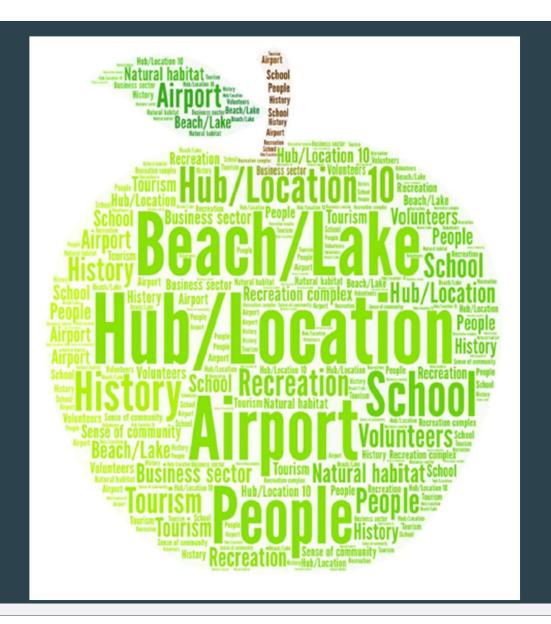




9. Not too much data; error on the side of less is more

16x - 36x

Total Economic Impact of recruiting and retaining one new resident over 5 years (Impact is Total Economic Impact/Median CEDEC 5 Yearly Salary of \$31,000)



10. Know when to use mean, median and mode while talking

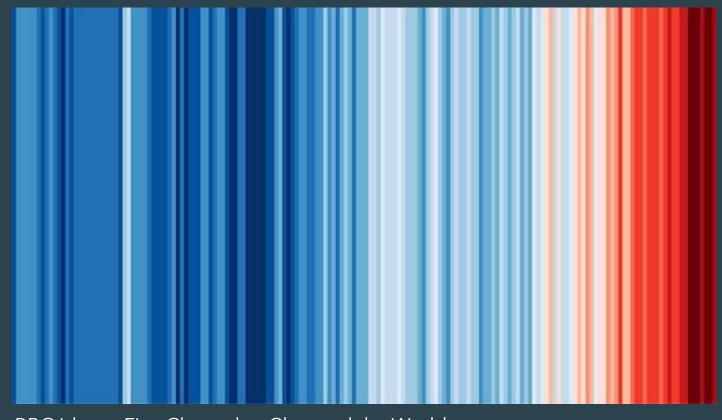
about 'average'



11. Use cool graphs... supplement with short analysis

GAPS & NAPS

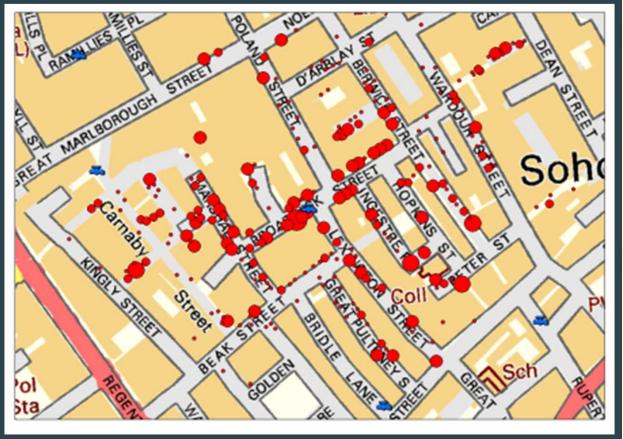
- Graphs
- Numbers
- Analysis
- Pictures
- Stories

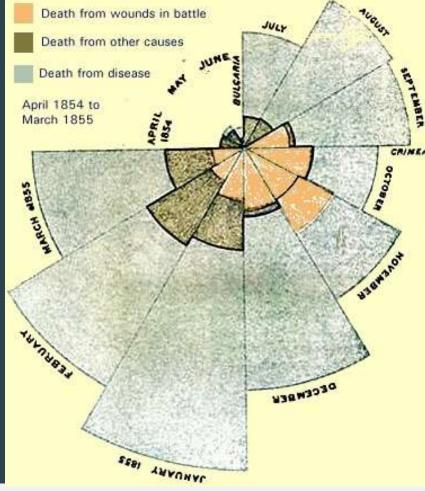


BBC Ideas - Five Charts that Changed the World

12. Find ways to count what really matters... sometimes you

have to create your own!





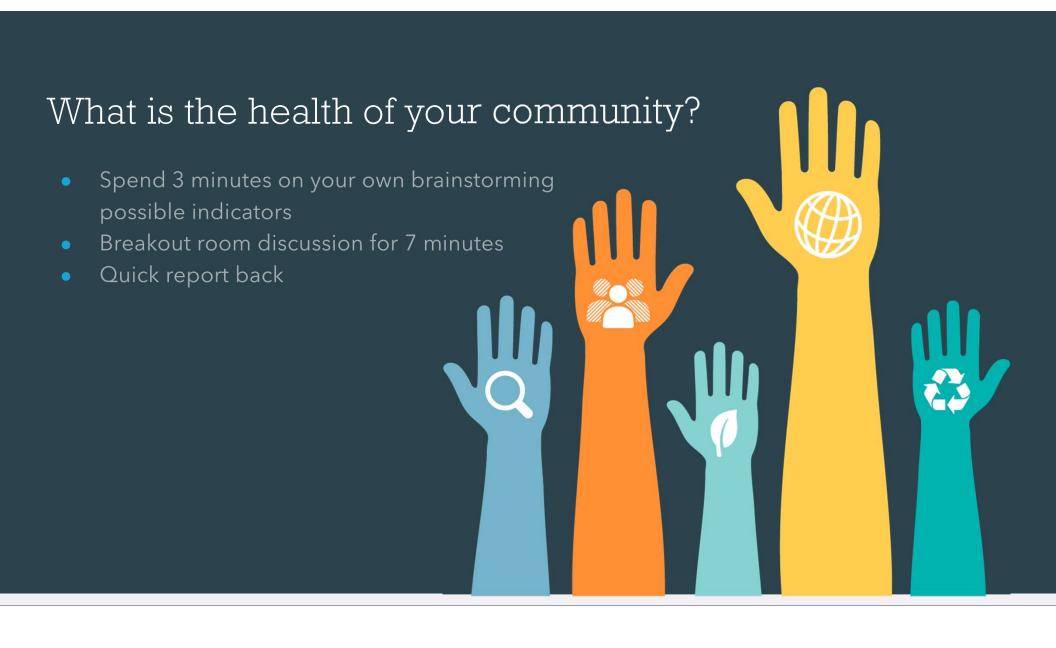
From North Okanagan VitalSigns 2023 Report



20 Vital Signs Report 2023

Visit globalgoals.org for more details.





What is the health & vitality of your community?

- Local middle-income earners can afford to buy a house in the community.
- Women consider it safe to walk alone downtown at night.
- We have at least one public festival that generates a feeling of magic and excitement.
- Citizens are motivated to learn new skills and develop existing ones.
- You see many active, healthy-looking seniors in this community.
- This town believes in itself. We think that with enough support, we can do anything.

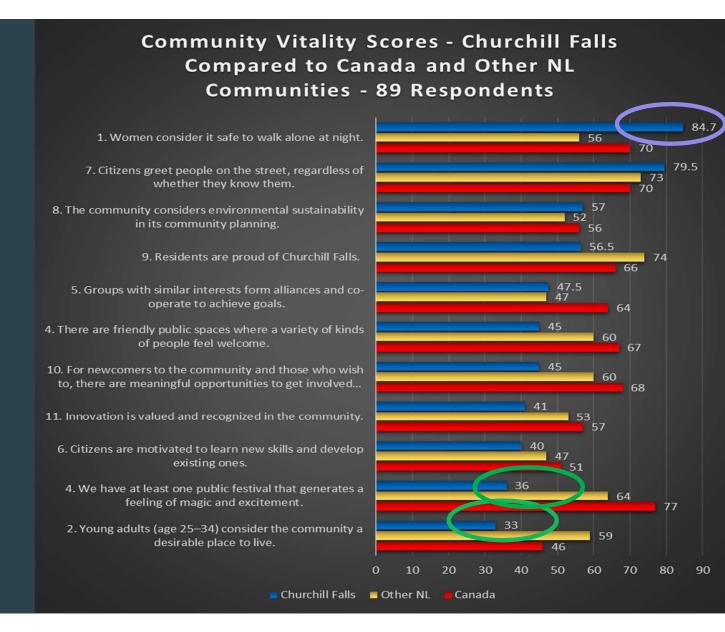


Community health & vitality

- For newcomers to the community and those who wish to, there are meaningful opportunities to get involved and make a difference in the community.
- Groups with similar interests form alliances and co-operate to achieve goals.
- Young adults (age 25–34) consider the community a desirable place to live.
- Citizens greet people on the street, regardless of whether they know them.
- Innovation is valued and recognized in the community.
- There are friendly public spaces where a variety of kinds of people feel welcome: parks, squares, fountains, outdoor cafes, benches, playgrounds.



Be able to ASSESS, FOCUS and ACT



The challenges of data in small communities

- 1. Some areas are unincorporated
- 2. Many jurisdictional lines School District, Health Area, Regional District
- 3. Data suppression only counts 1 in 4 households

Visible Minority Population (Census 2016)			
		% Of	
	Total	Pop'n	
Total Visible Minority Population	535	5.1%	
Chinese	115	1.1%	
South Asian	85	0.8%	
Japanese	85	0.8%	
Black	60	0.6%	
Latin American	60	0.6%	
Filipino	55	0.5%	
Other (not included elsewhere)	45	0.4%	
Southeast Asian	15	0.1%	
Arab	10	0.1%	
Korean	10	0.1%	
Multiple visible minorities	10	0.1%	

You Need Data - Who ya Gonna Call?

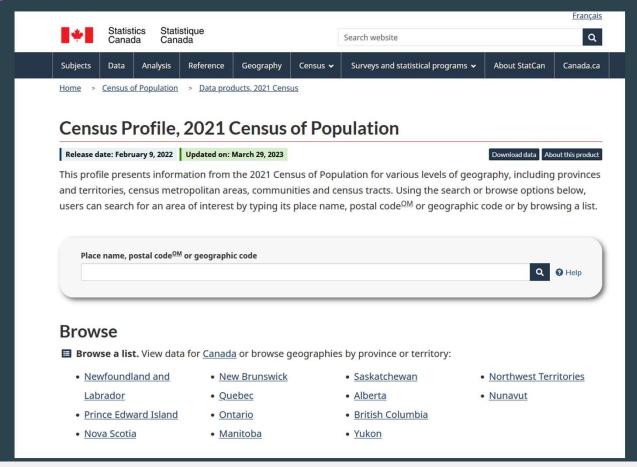
Intro to Data Sources



Canadian Census:

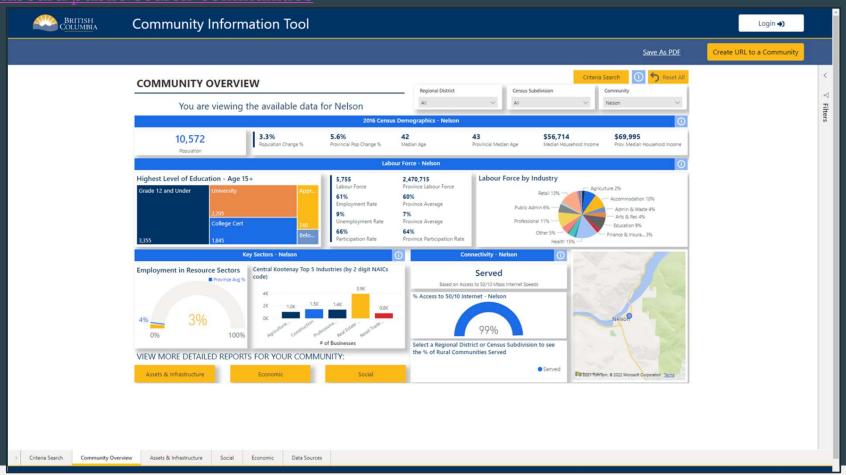
Statistics: Power from Data! https://www150.statcan.gc.ca/n1/edu/power-pouvoir/toc-

tdm/5214718-eng.htm



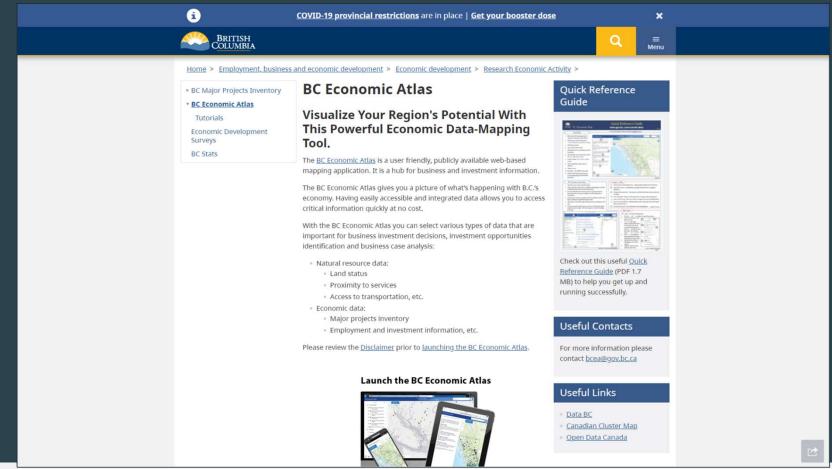
BC Community Info Tool (CIT): https://communityinformationtool.gov.bc.ca/cit-

dashboard/public/search-communities



BC Economic Atlas - https://www2.gov.bc.ca/gov/content/employment-business/economic-

development/industry/bc-economic-atlas



Others - Look for Data C

- Local/Regional Organizations
 - local/ regional tourism associations
 - municipal planning/regional district planning
 - chambers/ ED orgs/ CFs
 - local/regional real estate associations
 - housing authoritiesschool districts

 - other orgs. in community that gather data
 - realtors Tease rates
- Local stats
 - building permits
 - hotel vacancy/ change in revenues from year to year
 - hotel room prices
 - water usage
 - parking revenues
 - late payments
 - recreation centre usage
 - business licenses

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	Top 25 Business Licenses in Nelsor	n 2020 (Red -	big Covid	Impact
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"After nourishment, shelter and companionship, stories are the thing we need most in the world." — Philip Pullman

- Are you using stats <u>and</u> stories? (GAPS & NAPS)
- Are you making your invisible stories visible?
- Are you measuring what matters (MWM)?

Q&A

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What we learned

- Elders and youth have many of the same issues
- Elders have developed more coping skills
- Intergenerational connection works
- Link to CLICK Video





