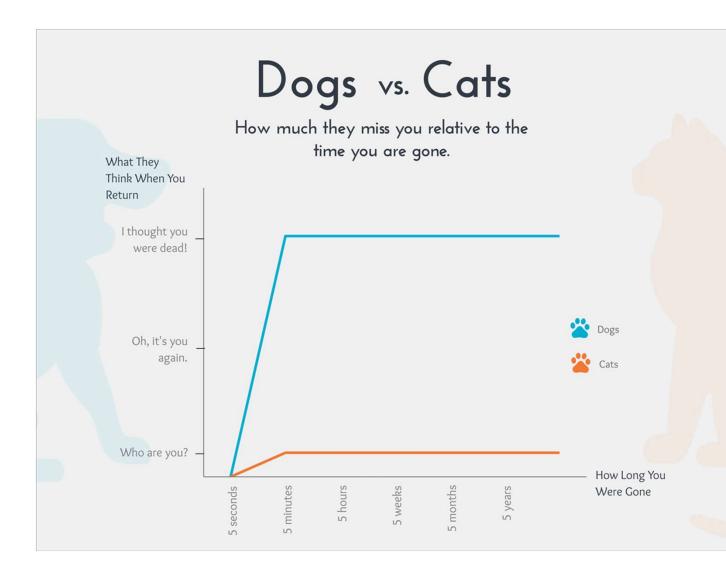


Presenting the Data & Telling the Story Session 5 of the Data Series

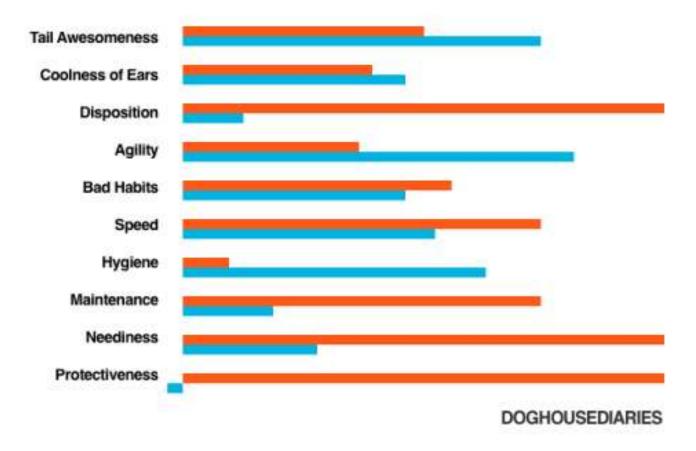
Mike Stolte - mstolte@the CIEL.com www.theCIEL.com

> ETSI-BC **CFDC East Kootenay**

You can graph anything



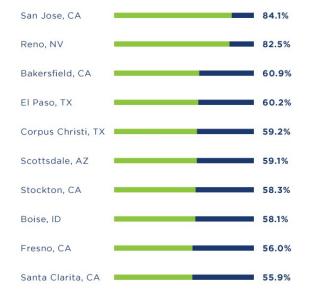




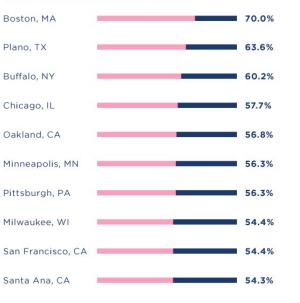
CATS VS DOGS: THE CITIES WITH THE HIGHEST RATIO OF CAT/DOG-FRIENDLY RENTALS

In 72 of the 100 largest cities, landlords are more likely to allow dogs than cats. In many of the largest cities, where people live in close quarters and space is tight - Chicago, Boston, and San Francisco, for example - more rentals allow cats than dogs. By contrast, rentals in smaller, less dense cities in the South and West - Reno, Bakersfield, and El Paso - are more likely to allow dogs, and by a large margin.

DOG-FRIENDLY RENTALS



CAT-FRIENDLY RENTALS



Methodology

To determine whether landlords prefer cats or dogs, we cataloged the

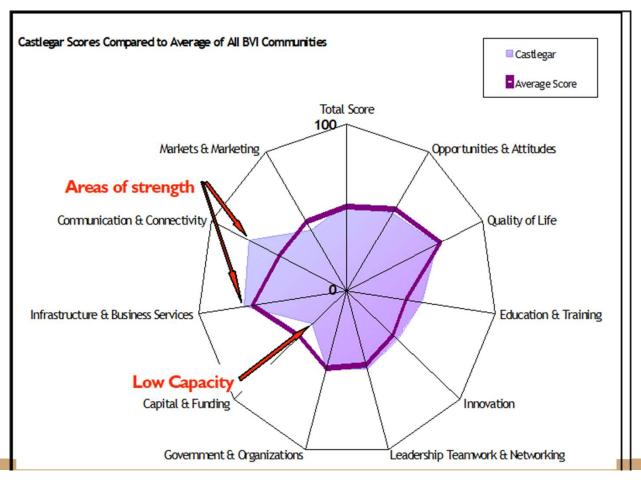
Agenda

- 1. DFAP Four important steps (Determine, Find, Analyze, **Present**)
- 2. Best Practices in Presenting Data Features to Employ
- 3. Infographics
- 4. CityViz & ETSI-BC Collaboration Sasha
- 5. Breakout Groups
- 6. Q&A
- 7. Next Steps
- 8. Conclusion

The Important 4 Steps

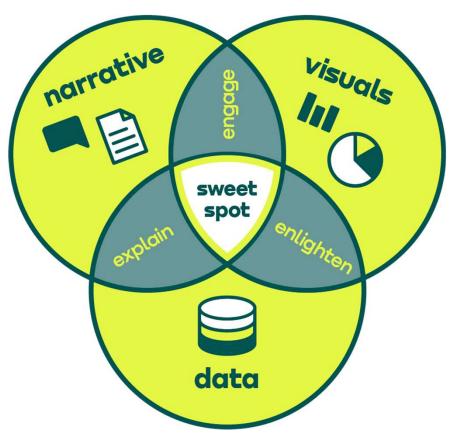
- **D** Determine what you need and what you need it for
- **F** Find it (or create it)
- **A** Analyze it
- P Present it

Give context; make it look simple



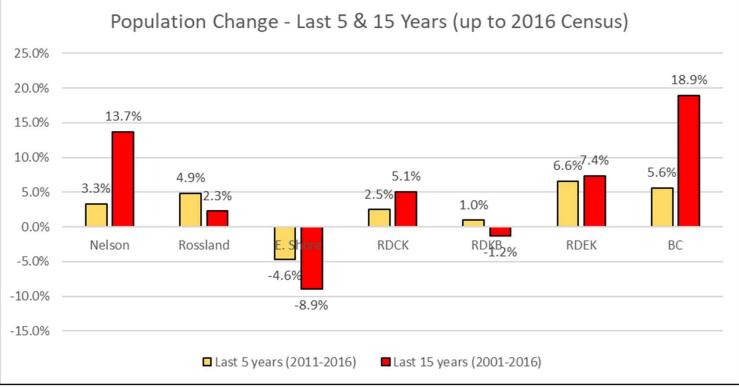
Some things to consider

- 1. Keep it simple (no acronyms, technical terms)
- 2. Provide multiple ways of displaying data
 - 1. Data
 - 2. Graphs
 - 3. Photos
 - 4. Stories
- 3. Use anecdotes, humour and thoughtprovoking questions
- 4. Frame your story with reference points & context
- 5. Tell a compelling story beginning to end explain what the data signifies

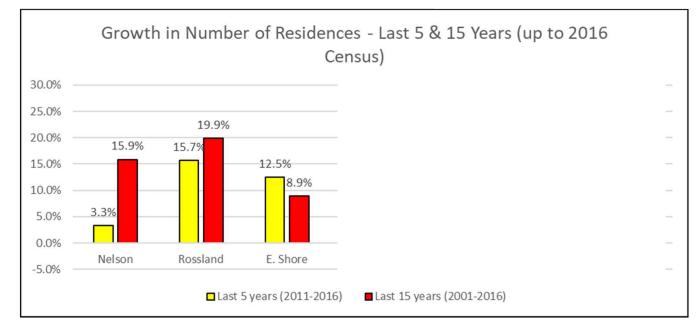


Population Changes Over Time	Nelson	Rossland	E. Shore	RDCK	RDKB	RDEK	BC
Last 5 years (2011-2016)	3.3%	4.9%	-4.6%	2.5%	1.0%	6.6%	5.6%
Last 15 years (2001-2016)	13.7%	2.3%	-8.9%	5.1%	-1.2%	7.4%	18.9%

Graphing can aid in analysis

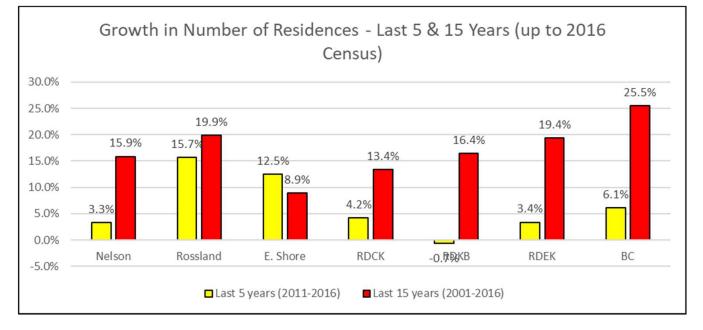


Growth in Number of Residences	Nelson	Rossland	E. Shore
Last 15 years (2001-2016)	15.9%	19.9%	8.9%
Last 5 years (2011-2016)	3.3%	15.7%	12.5%



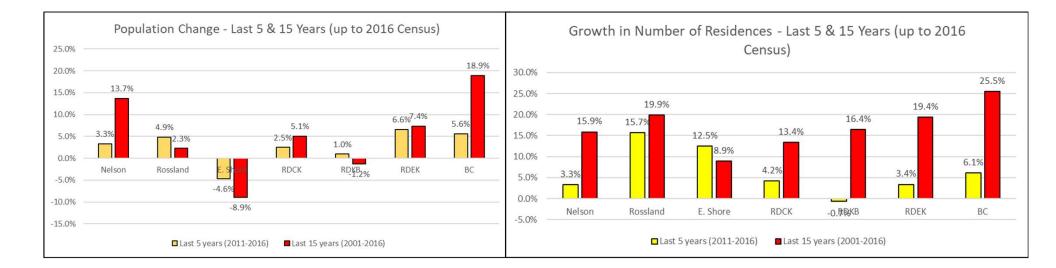
Provide useful comparisons

Growth in Number of Residences	Nelson	Rossland	E. Shore	RDCK	RDKB	RDEK	ВС
Last 15 years (2001-2016)	15.9%	19.9%	8.9%	13.4%	16.4%	19.4%	25.5%
Last 5 years (2011-2016)	3.3%	15.7%	12.5%	4.2%	-0.7%	3.4%	6.1%

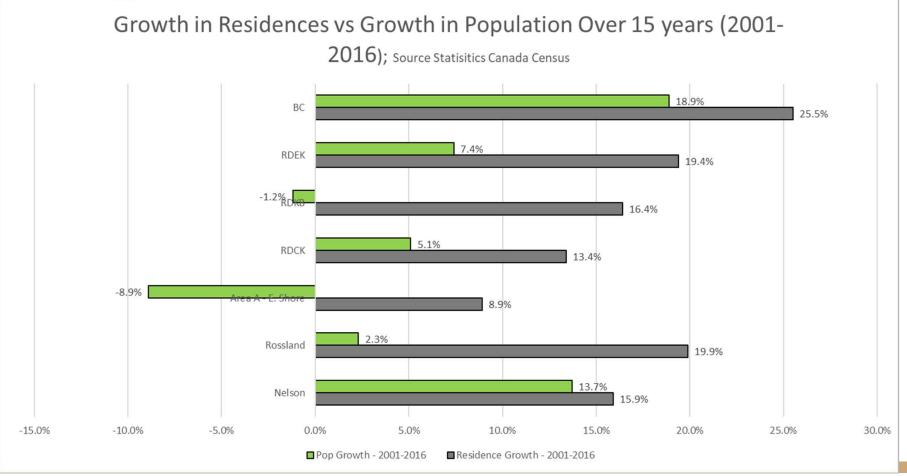


Provide useful comparisons

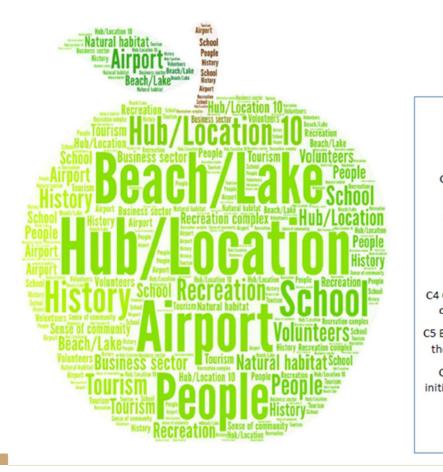
Playing with Data

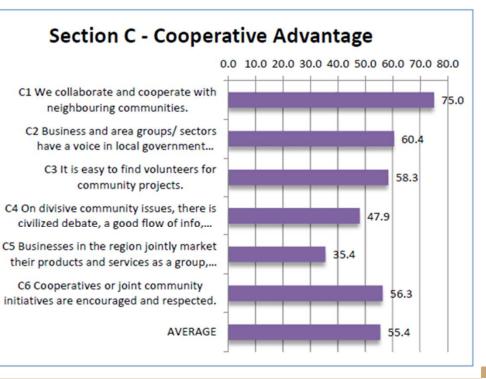


Linking Data



Present data different ways





Gut Check - Dirty Dozen - Comparison with 30 Community Ave. in Canada

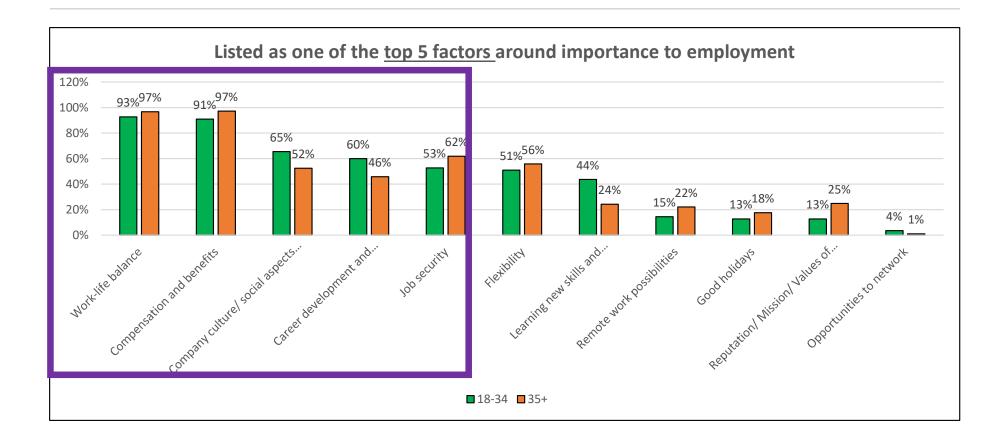


Reference points, Animation, & Call out arrows

From North Okanagan VitalSigns 2023 Report

6 CLEAN WATER AND SANITATION	8	GOAL 6 Ensure availability and sustainable management of water and sanitation for all.		8	GOAL 15 Protect, restore and promote terrestrial ecosystems, forests, land, and biodiversity.
7 AFFORMALE AND CLEAN INFROM CLEAN INFROM	N/A	GOAL 7 Ensure access to affordable, reliable, sustainable and modern energy for all.	16 PLACE, IUSTICE AND STIRONG INSTITUTIONS	7, 17	GOAL 16 Promote peaceful societies, accountable institutions, and access to justice for all.
8 BEEDHT WORK AND ECONOMIC GROWTH	6, 18, 19	GOAL 8 Promote sustained, inclusive economic growth, full and productive employment and decent work for all.	17 PARTNERSHIPS FOR THE COMES	21	GOAL 17 Strengthen the means of implementation and revitalize the global partnership for sustainable development.
9 ADUSTRY, INDUATED AND INFRASTRUCTURE	9	GOAL 9 Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.	SUSTA DEVELO	INABLE OPMENT	GCALS
O Vital Signs	Report 2023				Visit globalgoals.org for more details.

10 – Importance to Employment (Ranked)



Most Important Needs – Top 5 for Each Age Group

18-34

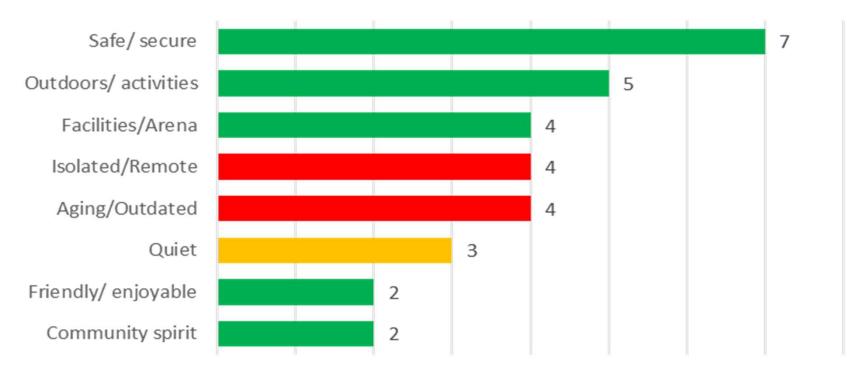
- 1. Work-Life Balance
- 2. <u>Compensation and Benefits</u>
- 3. Company Culture/ Social Aspects of Work
- 4. Career Development and Promotional Opportunities
- 5. Job Security

35+

- 1. Compensation and Benefits
- 2. Work-Life Balance
- 3. Job Security
- 4. Flexibility
- 5. Company Culture/ Social Aspects of Work

Use colours strategically/ Use simple questions Negative: Positive Ratio

Most Common Words to Describe CF (Dec. 2021 TRACT Survey of Managers/Supervisors)



Find useful references; Highlight them

¢.	32,779	Source: Economic Policy Institute - 2019*	
	52,115	Multipier (includes supplier and induced jobs)	
\$	58,141	3.99 Management of companies	
\$	39,129	3.64 Finance and insurance	
\$	40,142	4.18 Professional, scientific, and technical services	
\$	43,118	2.05 Health care and social assistance	
\$	43,118	1.94 Educational services	
\$	19,645	3.79 Arts, entertainment, and recreation	
\$	17,505	1.22 Retail trade (if wholesale trade included in this, 2.35x multiplier) this r	number jumps by 50
\$	39,741	2.76 Transportation and warehousing	
\$	19,663	2.29 Agriculture, forest, fishing, and hunting	
Ś	32,	7.39 Ave. of Utilities, Durable and Non-durable manufacturing	

Highlight what is important, make a 2nd slide if really important

$1.22x_{to}7.39x$

Multiplier effect of one job using economic multipliers for different industries (direct & indirect jobs created by 1 new job; Multipliers ranged from 1.22x for retail to 7.39x for manufacturing & utilities)

Economic Policy Institute (EPI), 2019; and Statistics Canada, 2016

\$500,000 - \$1,133,245

Estimates of **Total Economic Impact** of 1 new resident earning median wages (\$31,000) on local economy over 5 years (using 2 different approaches)

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)

Don't forget intangible value; Use animation to pace presentaiton Value of a New Resident

Tangible Value (\$)

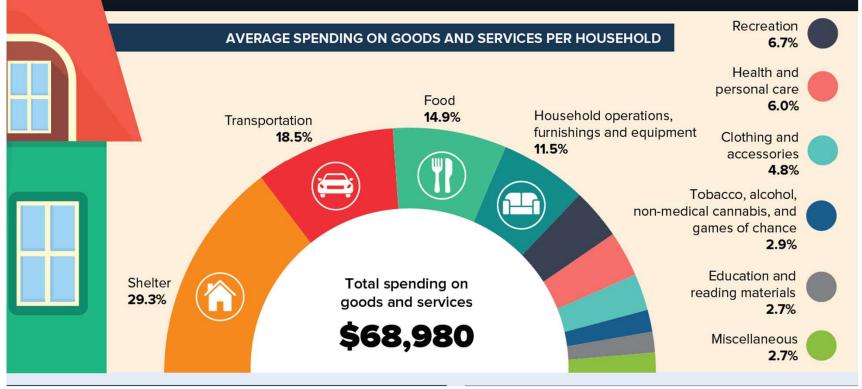
- Salary
- Spending on Housing, Food, Household, Recreation, Services
- Lower dependency ratios, more resilient community
- Increased tax base
- Stimulation of local businesses

Intangible Value (non \$)

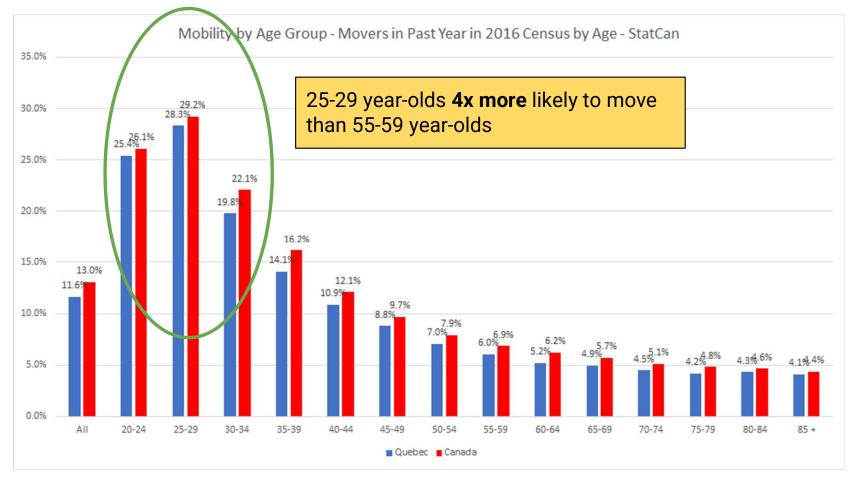
- Volunteering
- Energy
- Skills
- Knowledge
- Culture
- Community Renewal
- Diversity

Borrow infographics that relate to your subject; Use camera tool on pdfs, print screen & free images





Use the right kind of graph; highlight the trends; state the obvious



My assignment

MOUNTAIN CULTURE

THE PHOENIX ISSUE ODE TO THE T-BAR TALKING TREES DEATH OF THE HANDSHAKE PADDLING YOUR SPLITBOARD IS MOUNTAIN CULTURE INCLUSIVE? SURF FIFTY STATES

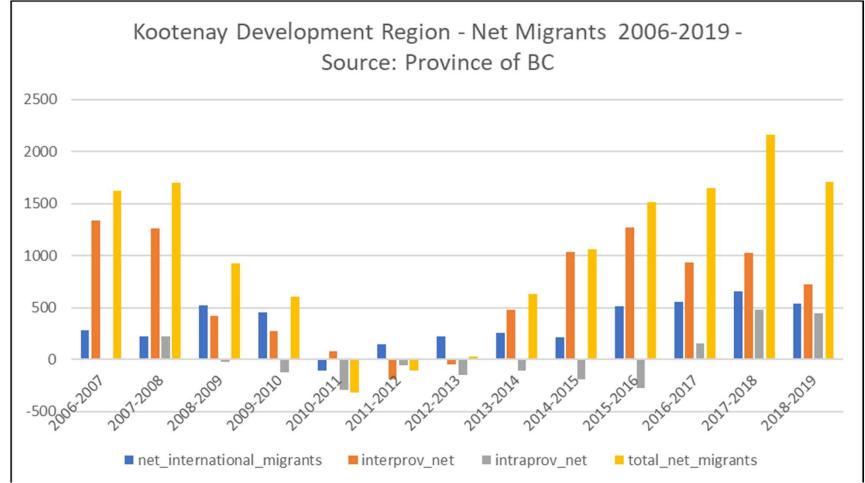


KMC 38 – The Phoenix Issue

<u>Browse KMC Issues</u> / Browsing Kootenay Mountain Culture Magazine

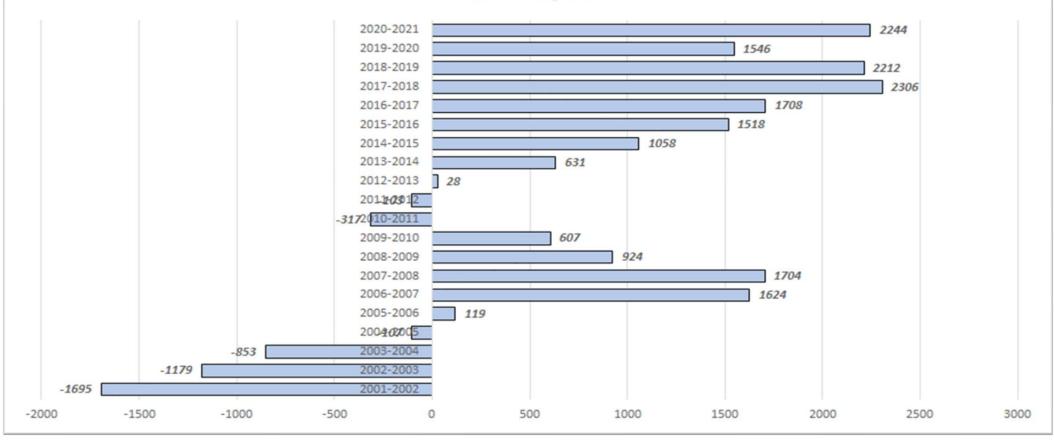
Kootenay Mountain Culture Magazine rose up from the impacts of a global pandemic and has launched the Winter 2020/21 edition. Appropriately, it's the "Phoenix Issue."

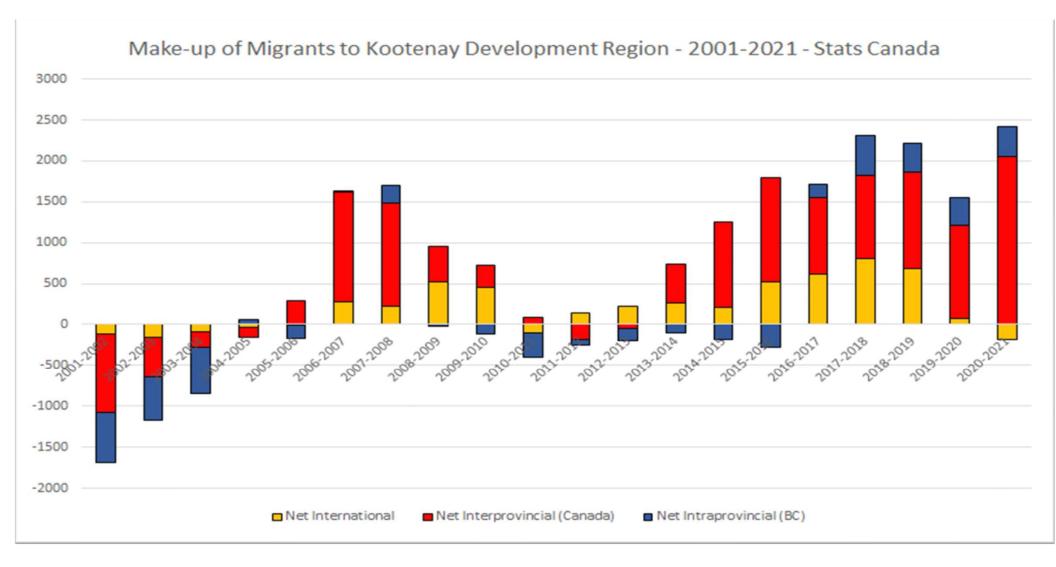
The overall picture in our region



Net Total Migration to Kootenay Development Region 2001-2021 - Statistics Canada

Net Total Migration

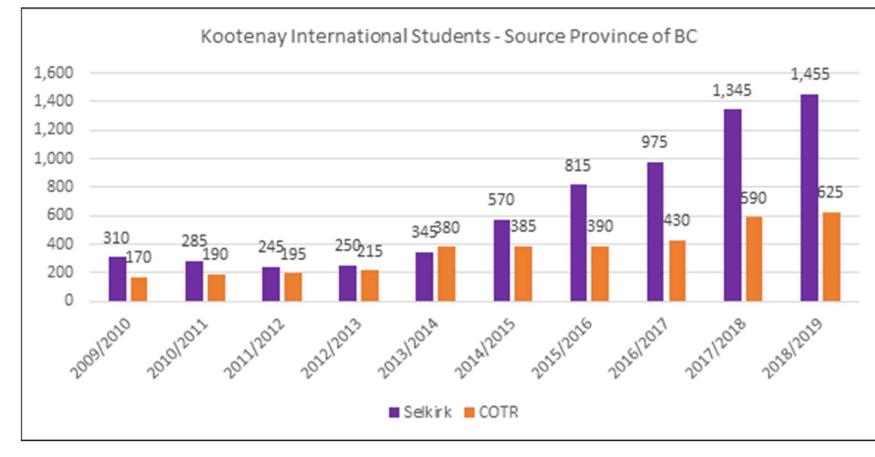




Piecing together a picture

	son Mother Tongue - To ntries (Census 2016)	p
1	German	140
2	Russian	110
3	Italian	85
4	Dutch	50
5	Cantonese	40
6	Tagalog	40
7	Punjabi	35
8	Spanish	35
9	Portuguese	30
10	Japanese	20

What is the story happening in your community/region?



Beware of data (not checking into anomalies)

	Selkirk College - International He	eadcount, W	here Student	s are From (Oct. 31st of	Each Yr.)
	Country	2015	2016	2017	2018	2019
1	India	216	308	322	496	549
2	China	121	143	244	265	273
3	Philippines	0	10	39	59	60
4	Japan	61	46	37	35	20
5	Viet Nam	1	1	7	20	15
6	Korea, Rep. of	19	27	24	17	21
7	Brazil	7	9	12	12	11
8	United Kingdom	3	6	8	10	10

The story from the stats



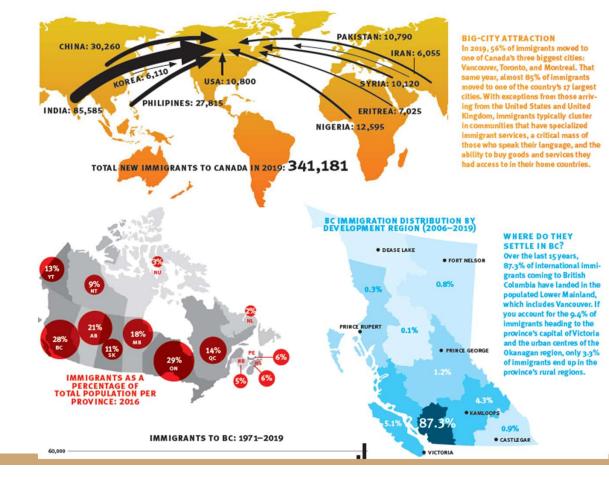


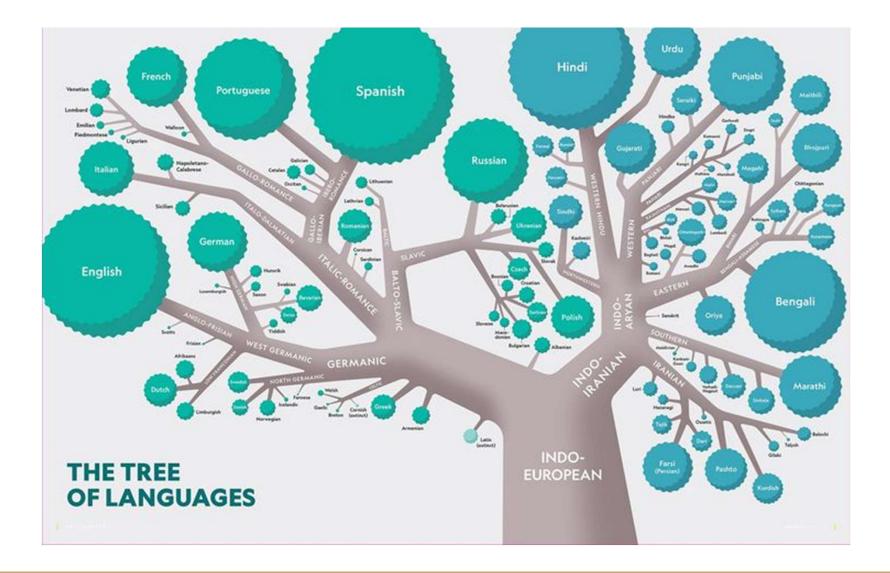




Using Infographics





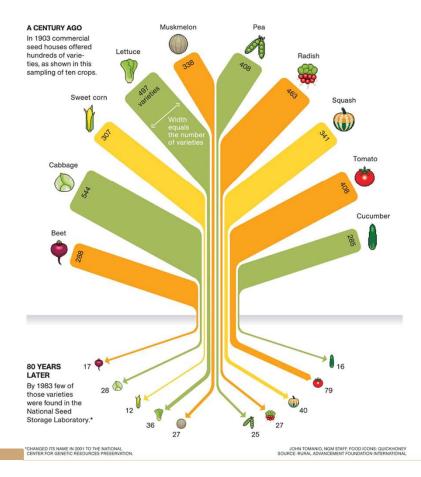


EAT: THE STORY OF FOOD NATIONAL GEOGRAPHIC CHANNEL SPECIAL EVENT PREMIERES NOVEMBER 2014 THE WORLD OF In six ready-to-watch portions Hungry Hooked on Grass Meart, your Maker for More? 4 So is chef ****** 5 Eric Greenspan ERIC GREENSPAN IS HUNGRY Mad Science PREMIERING Man vs. Fish of Junk Food NOVEMBER 2014 ight foods acco makes up 1/4 of the U.S. diet. IN 1492 COLUMBUS Columbus was actually ER B looking for spices when he discovered the Americas. **1** 50 Cash Crops Globally, it is estimated that approximately 1/3 of food produced is wasted before transformers **8**2 Slaves to Sugar Õ High-fat/high-sugar foods stimulate the brain in the same way that drugs do. A TIMELINE OF GREAT EVENTS in Food History 1 BOTAD 2500 oc. 2575-c. 2465 MCE 61438-1533 AD 1500 40 0 1620 40 \$ 1980 10 RIA NA 0 0. Incas used to worship the potato. They were known to The drive through restaurant charlged the food industry but also had an effect on cars. Cup The Pilgrims aboard the Mayflower Bread was used as Many Europeans thought that the tomato was poisonous because of the high lead the currency to pay settled at Plymouth the people who helped bury potatoes with their dead. build the pyramids in content in plates and flatware. Rock in part holders were once a rarity in ancient Egypt. Acidic foods like tomatoes auto design, but by the late because they were caused lead to leach into the running out of beer. 1980s it was common for cars to feature more cup holders foods, resulting in lead poisoning than passengers.

OUR DWINDLING FOOD VARIETY

As we've come to depend on a handful of commercial varieties of fruits and vegetables, thousands of heirloom varieties have disappeared. It's hard to know exactly how many have been lost over the past century, Laboratory in 1983. The survey, which included 66 but a study conducted in 1983 by the Rural Advancement Foundation International gave a clue to the

scope of the problem. It compared USDA listings of seed varieties sold by commercial U.S. seed houses in 1903 with those in the U.S. National Seed Storage crops, found that about 93 percent of the varieties had gone extinct. More up-to-date studies are needed.



Cool Ways to Present Data

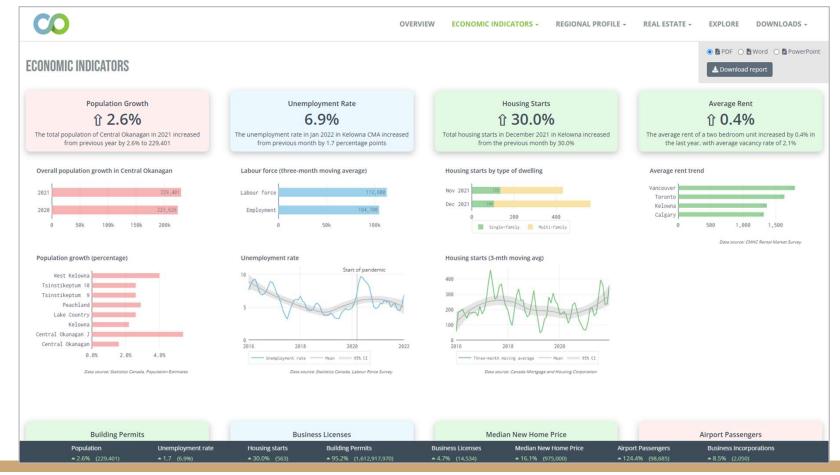
- <u>https://ourworldindata.org/</u>
- https://www.census.gov/popclock/
- <u>https://www.nationalgeographic.org/graphic/</u>
- Smart Draw <u>https://www.smartdraw.com/infographic/examples/</u> \$9.95/mo.
- 13 Infographic Maker Softwares Compared <u>https://blog.templatetoaster.com/infographic-maker-software-best/#</u>

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

BRITISH C <u>OLUMBI</u> A	Community Information Tool	
	Save As P	<u>PDF</u>
	COMMUNITY OVERVIEW	et All
	You are viewing the available data for Armstrong	\sim
	2016 Census Demographics - Armstrong	
	5,114 5.9% 5.6% 49 43 \$63,561 \$69,995 Population Provincial Pop Change % Provincial Pop Change % Median Age Provincial Median Age Provincial Median Age	tome
	Labour Force - Armstrong	0
	Highest Level of Education - Age 15+ Grade 12 and Under College Cert U Z,290 Z,470,715 Labour Force Journal Labour Force Journal Labour Force Agriculture 3% 910 910 7% 7% Province Average Arts & Rec 2% Education 5% Professional 4% Other 7% Health 12% Health 12% Health 12% Health 12% Manufacturing 14% Untro & Cultural 1%	
	Key Sectors - Armstrong O Connectivity - Armstrong O HULLCAR	1 ce
	Employment in Resource Sectors Province Avg % North Okanagan Top 5 Industries (by 2 digit NAICs code) S2K 8 % Access to 50/10 Internet - Armstrong	
	4% 40% 0% 10% pointing to the protection pro	ELL.
	# of Businesses Select a Regional District or Census Subdivision to see the % of Rural Communities Served	
	Assets & Infrastructure Economic Social Served	ns Sile

Check out Dashboards - cityviz.ca

https://data.investkelowna.com/economic-indicators



Conclusion/Q&A



Mike Stolte - mstolte@the CIEL.com www.theCIEL.com

> ETSI-BC CFDC East Kootenay