



Misbe-Haven



Geography of Offshore Tax Evasion in Canada

Research Questions

- What are the spatial patterns of offshore tax evasion in Canada?
- Who are the major actors and where are they located? Why are they there?
- What are the major havens Canadians use?
- How can we research tax evasion given its secrecy and lack of data?

Data

- Data are from the “Offshore Leaks” database compiled by the International Consortium of Investigative Journalists (ICIJ).¹
- Largest ever leak of tax haven data.¹
- 2 data types: Nodes (companies/individuals), and Edges (connections between nodes).
- I geocode (map) nodes using their addresses.
- This data is the best source of information we have on offshore tax evasion.²

What is offshore tax evasion?

- Companies and individuals avoid taxes by moving money out of its country of origin to a country with beneficial tax or secrecy laws.³
- These countries are known as “tax havens”.³
- Offshore tax evasion is often illegal.³
- Almost all activities are secret, and very little data is available on the subject.⁴

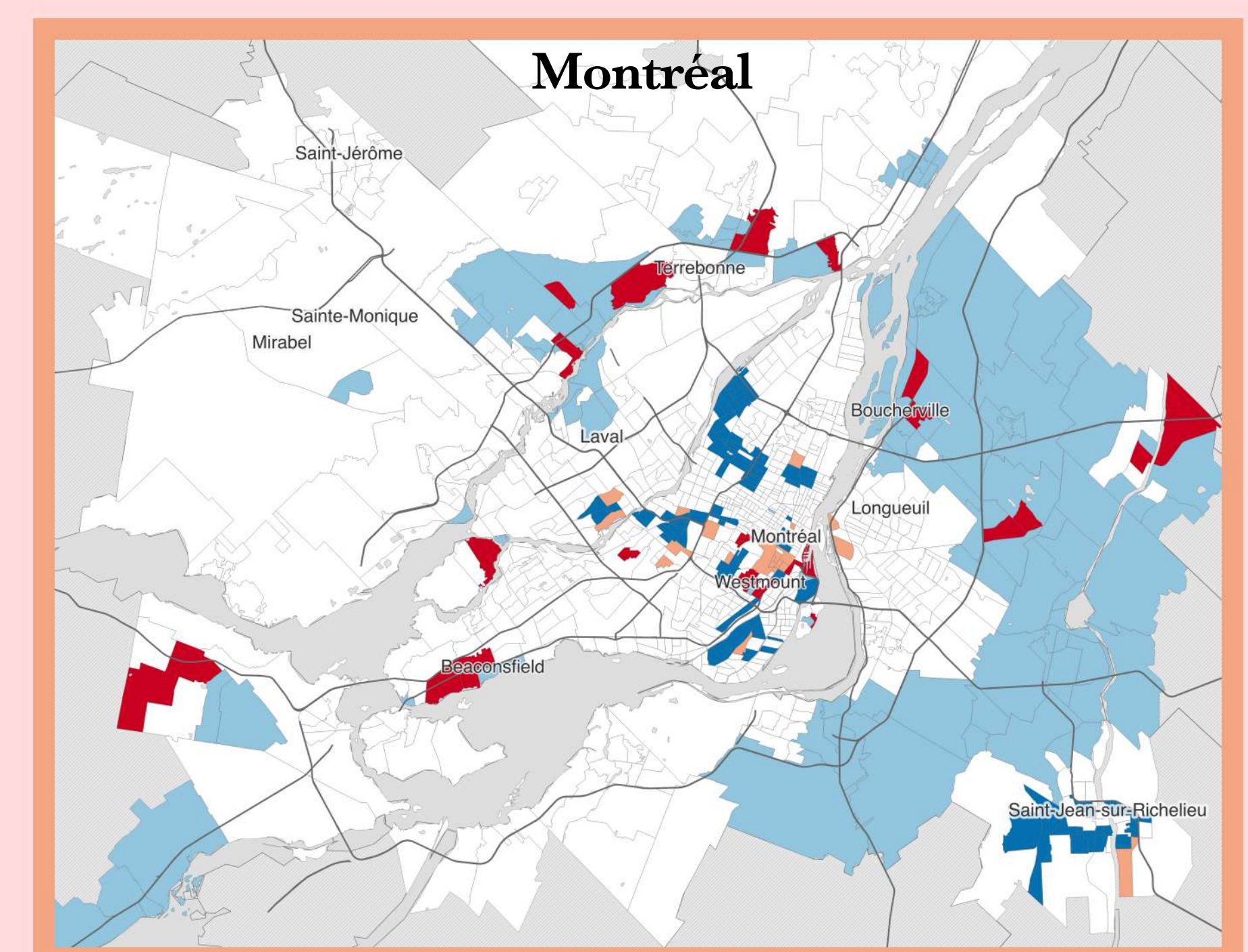
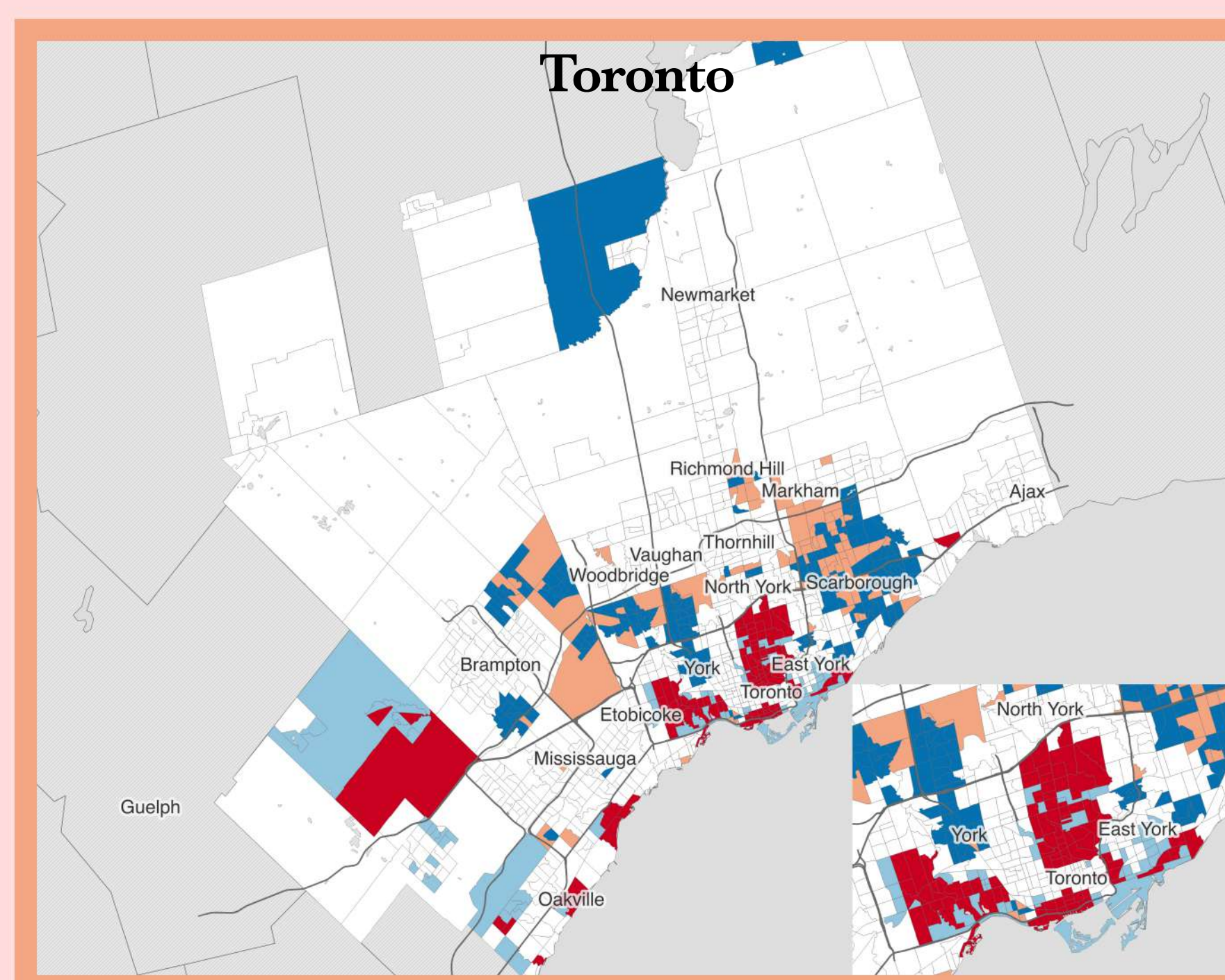
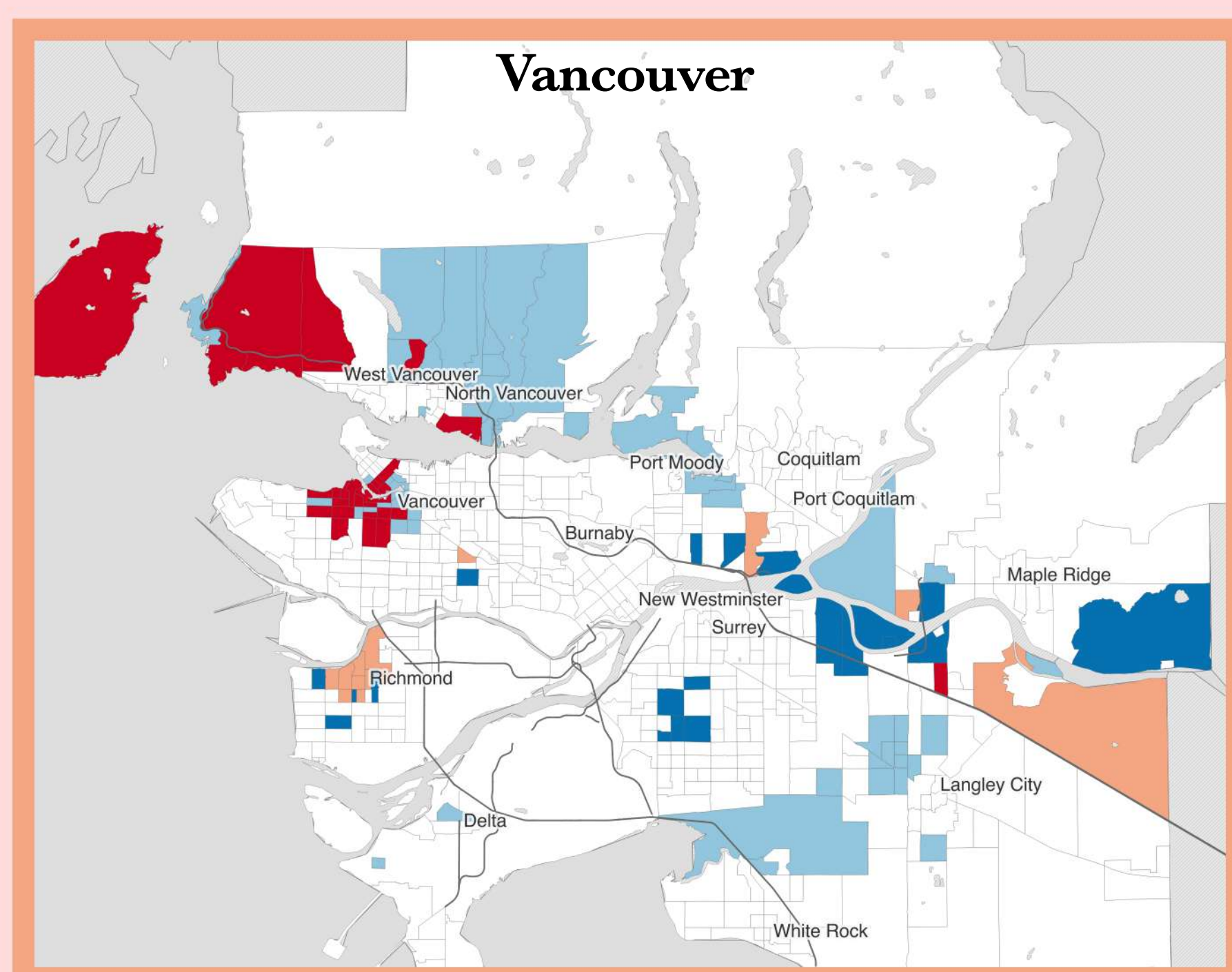
Case studies: tax evasion v.s. income in 3 largest Canadian cities

Bivariate LISA⁵ of nodes vs income

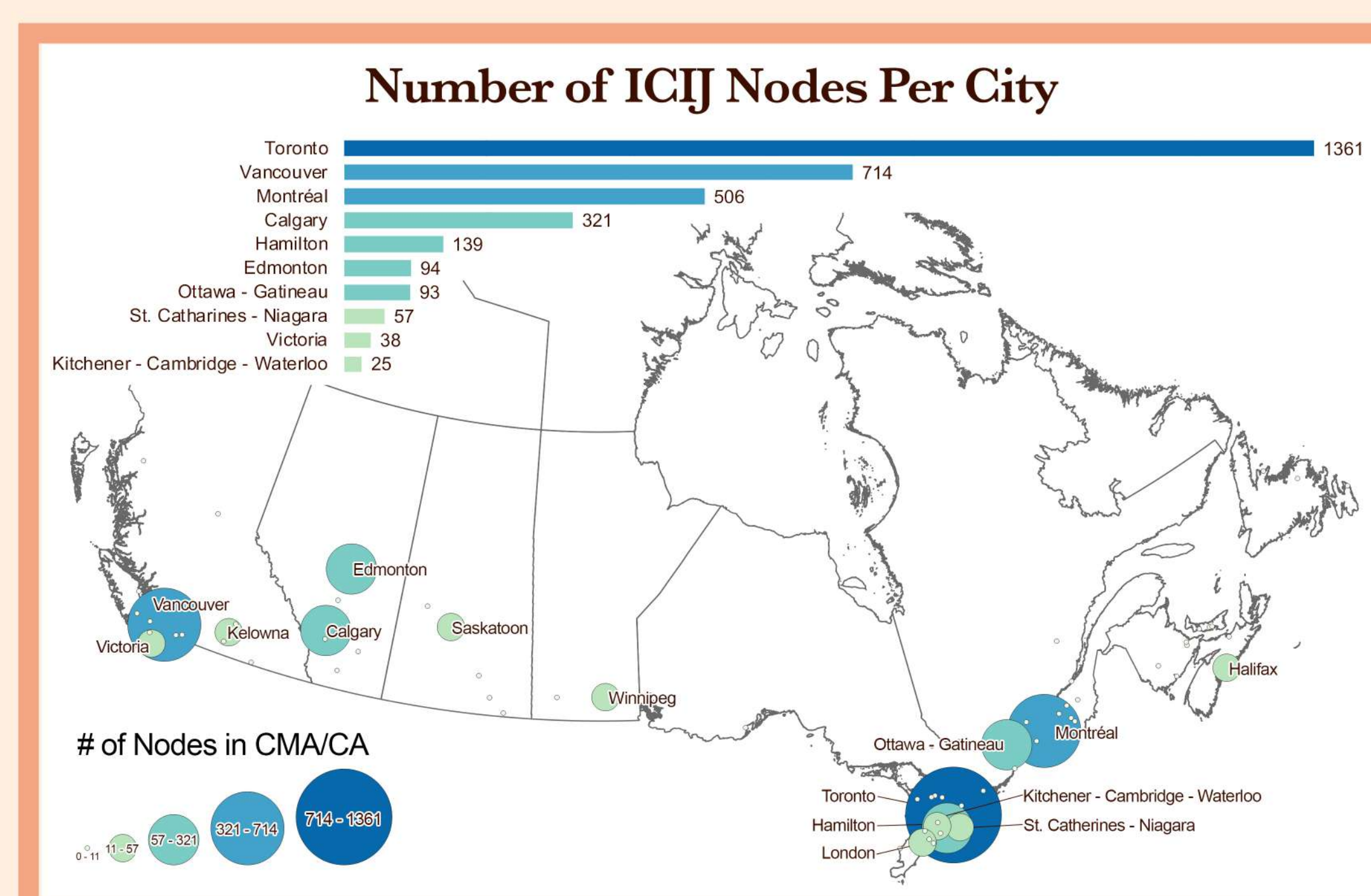
Nodes - Income

- High - High
- High - Low
- Not significant
- Low - High
- Low - Low

$$I_i = \frac{(x_i - \bar{x}) \sum_j w_{ij} (x_j - \bar{x})}{v}$$



Offshore tax evasion at international and national scales



Dependent Variable: NODES PER CMA/CA				Number of obs = 76
Source	Sum of Sq.	df	Mean Sq.	F (7, 68) = 21.48
Model	1786056.8	7	255150.971	Prob. = 0.0000
Residual	807563.362	68	11875.9318	R-squared = 0.6886
Total	2593620.16	75	34581.6021	Adj R-squared = 0.6566
				Root MSE = 108.98
Variable	Coef.	Std. Error	t-Statistic	Prob.
Gini	18.40074	8.661528	2.12	0.037
Dum_L	307.1106	68.72008	4.47	0.000
Dum_M	-86.43977	35.82187	-2.41	0.019
NAICS52	45.24616	14.10563	3.21	0.002
NAICS53	22.81107	34.67865	0.66	0.513
NAICS54	-1.252142	10.11196	-0.12	0.902
NAICS55	1.300288	.8756232	1.48	0.142
Constant	-714.4515	245.8908	-2.91	0.005

Discussion

- Offshore tax evasion is difficult to map due to the scarcity of available data.
- This honours thesis attempts to paint a picture of its geography.
- No dollar amounts are available, so number of nodes/edges serve as proxy measurements.

Conclusions

- Nodes are disproportionately located in the three largest cities.
- Nodes are clustered in high-income areas.
- Offshore tax evasion is significantly related to income inequality and finance employment at national scale.
- Traditional tax havens and former British colonies like Bermuda have the most connections with Canada.

Future Research

- This is the first study of offshore tax evasion with quantitative analysis at the sub-national scale.
- More research and data is needed on this subject, as it remains relatively understudied.
- Geographic approaches can be used to find patterns and potentially craft policy.



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Acknowledgements

Thank you to my supervisor,

Prof. Sebastian Breau

Works Cited

- ¹ ICIJ, 2022
- ² O'Donovan et al., 2019
- ³ Shaxson, 2011
- ⁴ Vaithilingam & Nair, 2009
- ⁵ Anselin, 1995

