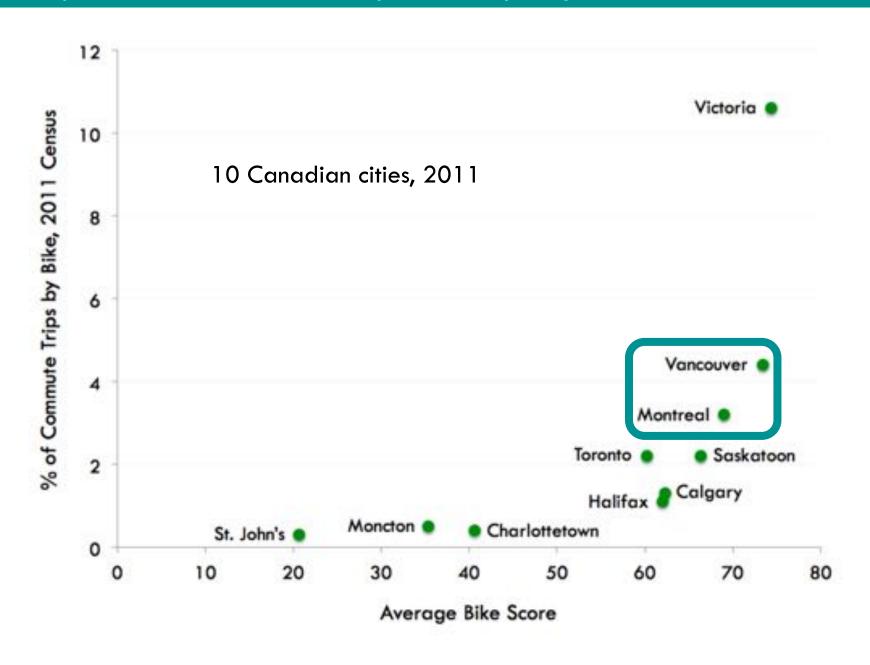
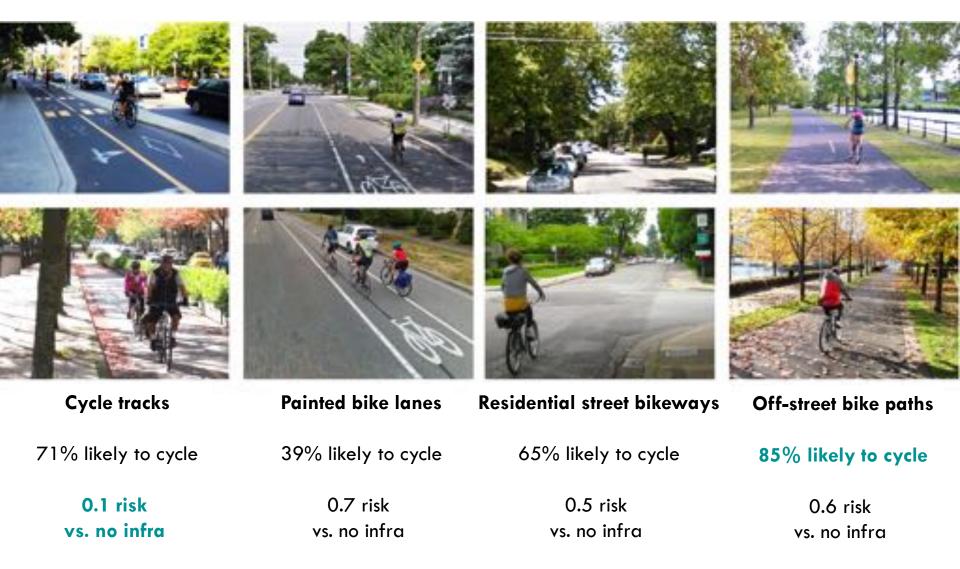


Multiple studies: more bikeways, more cycling



Multiple studies: certain bikeway types preferred & safer



Methods

2011 GIS data

- bikeways
- proximity from residential parcels to bikeways (surface displacement, along network)

2011 National Household Survey

- 460,000 residents of Montreal
- 140,000 residents of Vancouver
- commute mode of working population

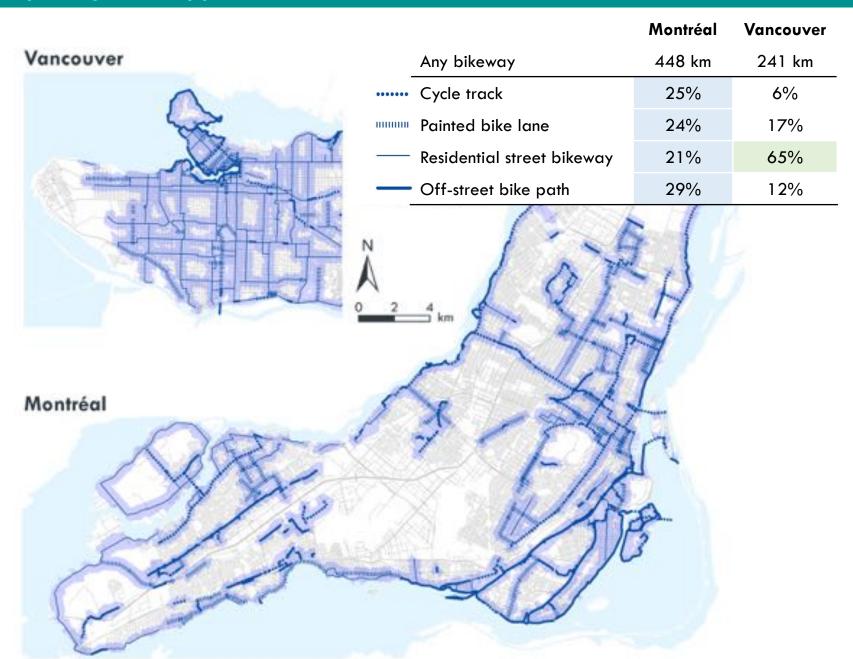
summarized & linked by census tract (~neighbourhood), unit of analysis, n=634



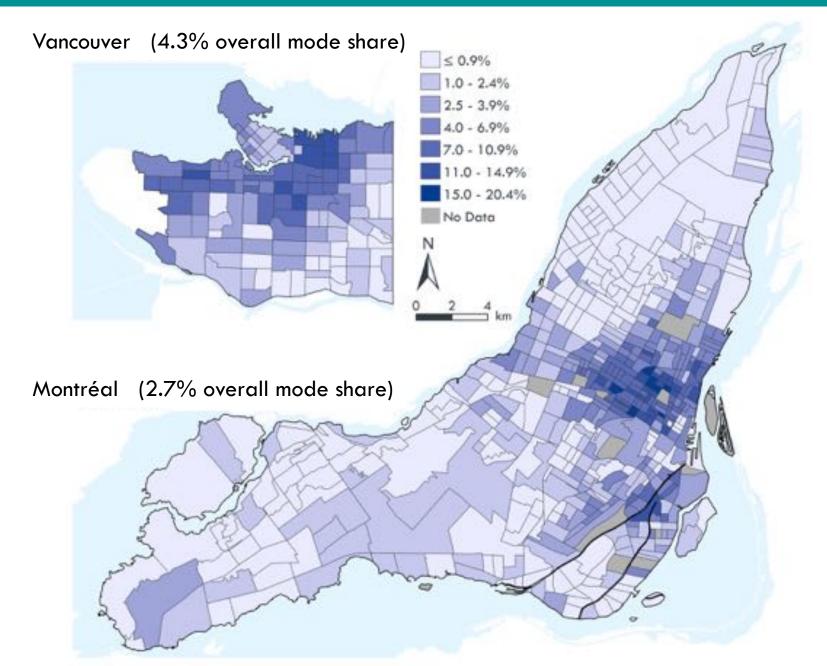
Bikeway coverage, 2011



Bikeway lengths & types, 2011



Cycling mode share by census tract, 2011



Relative mode share per 1 km closer proximity

| Any bikeway | Both cities | 3.9 | |
|----------------------------|-------------|-----|------|
| | | | |
| Cycle track | Both cities | 1.5 | |
| Painted bike lane | Montréal | 1.5 | A.C. |
| | Vancouver | - | 1910 |
| Residential street bikeway | Montréal | 1.4 | |
| | Vancouver | 3.2 | R |
| Off-street bike path | Montréal | 1.3 | |
| | Vancouver | - | |

| | | Relative mode share per 1 km closer proximity | _ |
|----------------------------|-----------------------|---|------|
| Any bikeway | Both cities | 3.9 | |
| Cycle track | Both cities | 1.5 | |
| Painted bike lane | Montréal Vancouver | 1.5 - | 1910 |
| Residential street bikeway | Montréal Vancouver | 1.4 3.2 | |
| Off-street bike path | Montréal Vancouver | 1.3 - | 1 |

| | | | Relative mode share per 1 km closer proximity | _ |
|---------------------|----------------------------|-------------|---|--|
| | Any bikeway | Both cities | 3.9 | |
| | Cycle track | Both cities | 1.5 | |
| éal | Painted bike lane | Montréal | 1.5 | |
| network in Montréal | | Vancouver | - | (BIS) |
| ork ir | Residential street bikeway | Montréal | 1.4 | |
| netwo | | Vancouver | 3.2 | A CONTRACTOR OF THE PARTY OF TH |
| | Off-street bike path | Montréal | 1.3 | |
| | | Vancouver | - | |

| | | | Relative mode share per 1 km closer proximity | |
|-------------------------|----------------------------|-------------|---|--|
| | Any bikeway | Both cities | 3.9 | |
| | Cycle track | Both cities | 1.5 | |
| | Painted bike lane | Montréal | 1.5 | |
| | | Vancouver | - | dij |
| Network in Vancouver | | Montréal | 1.4 | |
| Network i Vancouve | Residential street bikeway | Vancouver | 3.2 | |
| ž Š | | | | A CONTRACTOR OF THE PARTY OF TH |
| | Off-street bike path | Montréal | 1.3 | Jul 3 |
| | | Vancouver | | |

Were there differences in associations for men & women?

Relative mode share per 1 km closer proximity

| | | Male | Female | |
|----------------------------|-------------|------|--------|--|
| Any bikeway | Both cities | 3.3 | 5.7 | • |
| Cycle track | Both cities | 1.4 | 1.9 | |
| | | | | |
| Painted bike lane | Montréal | 1.4 | 1.7 | |
| | Vancouver | - | - | |
| Residential street bikeway | Montréal | 1.3 | 1.5 | |
| | Vancouver | 2.8 | 5.1 | The same of the sa |
| Off-street bike path | Montréal | 1.3 | 1.5 | |
| | Vancouver | - | - | |

Did more women cycle in higher cycling census tracts?

| Cycling commute mode share of census tracts | | % female of all cycle commuters | |
|---|-------------|---------------------------------|--|
| | | | |
| Moderate | 2.5 - 6.9% | 30.3% | |
| High | 7.0 – 20.4% | 43.5% | |





Conclusions

Variation in cycling at census tract level in Montréal & Vancouver: 0 to 20.4%

- associated with proximity to any bikeway & cycle tracks (safe, preferred)
- associated with routes that form network

In census tracts where cycle commuting more common, % female approached parity with males

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Cycling in Cities, UBC

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