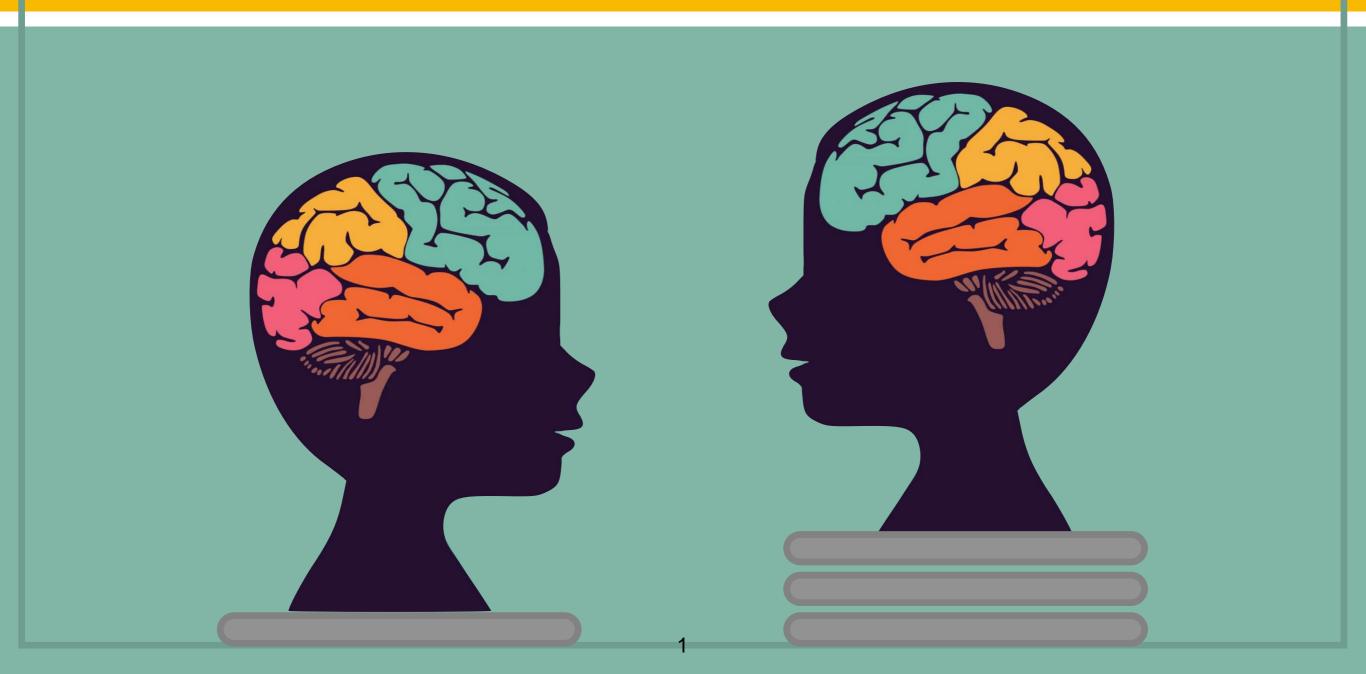
Socio-economic Status and Early Developmental Skills

Megan Kelly, Xinyi Lu, April Pereira, Mona Zhu



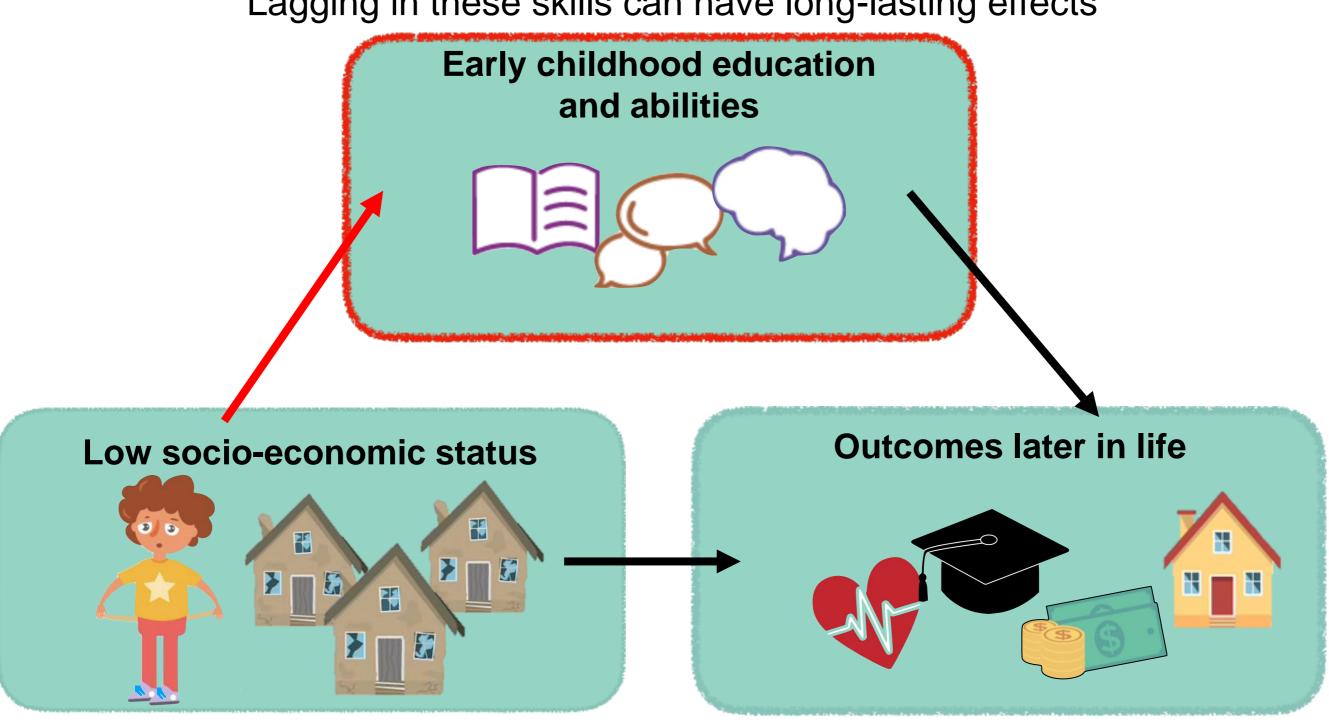




ONTARIO

The Problem

Lagging in these skills can have long-lasting effects ¹



Early Developmental Skills

- How ready are children to learn and go to school?
- Assessed by the Early Development Instrument (EDI)
- Vulnerability in School Readiness



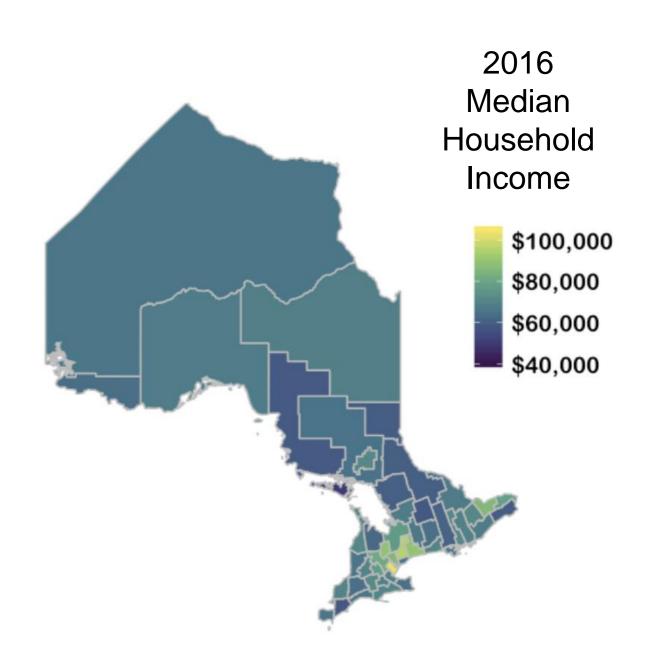
Janus, M., & Offord, D. R. (2007). Development and psychometric properties of the Early Development Instrument (EDI): A measure of children's school readiness. Canadian Journal of Behavioural Science/Revue canadienne des sciences du comportement, 39(1), 1.



Percentage of Vulnerable Children Across Ontario Census Divisions

2016 Percent Vulnerable 50% 40% 30% 20%

Median Household Income in Ontario

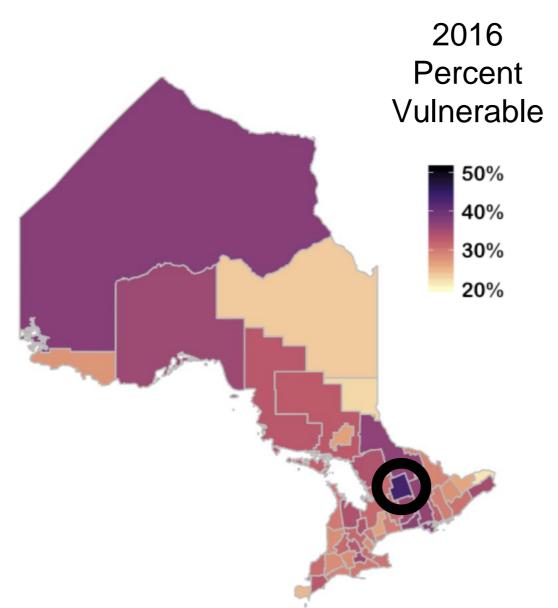


Vulnerability ← Income

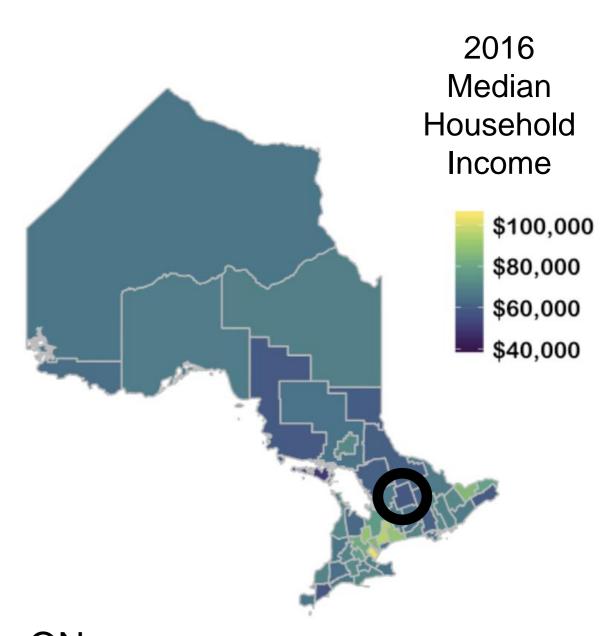
b = -1.327e-06, SE = 5.628e-07, p = 0.0226



Percentage of Vulnerable Children Across Ontario Census Divisions



Median Household Income in Ontario



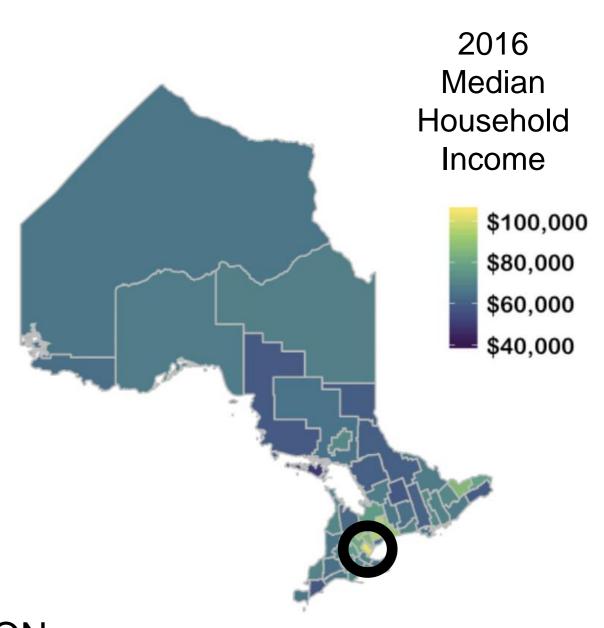
Haliburton, ON
Almost a **quarter** of children living in poverty
Median HH income = **\$58125**



Percentage of Vulnerable Children Across Ontario Census Divisions

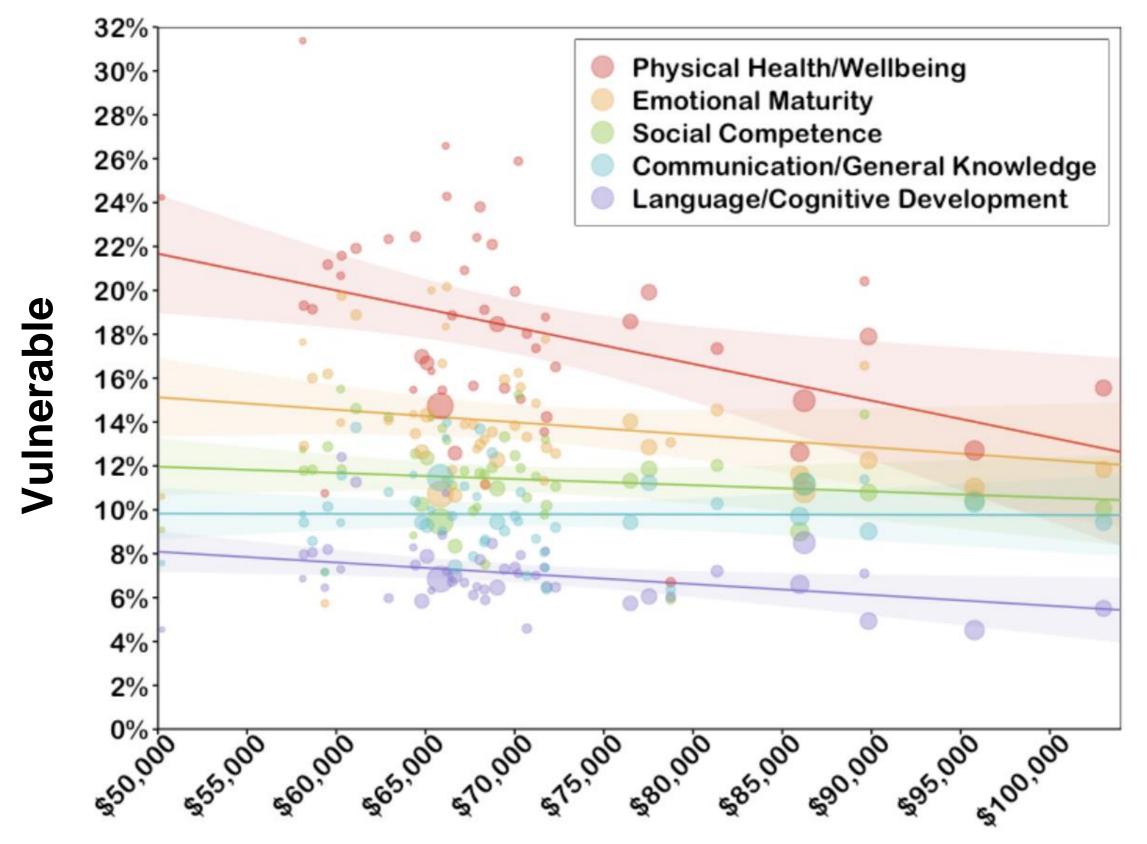
2016 **Percent** Vulnerable 50% 40% 30% 20%

Median Household Income in Ontario



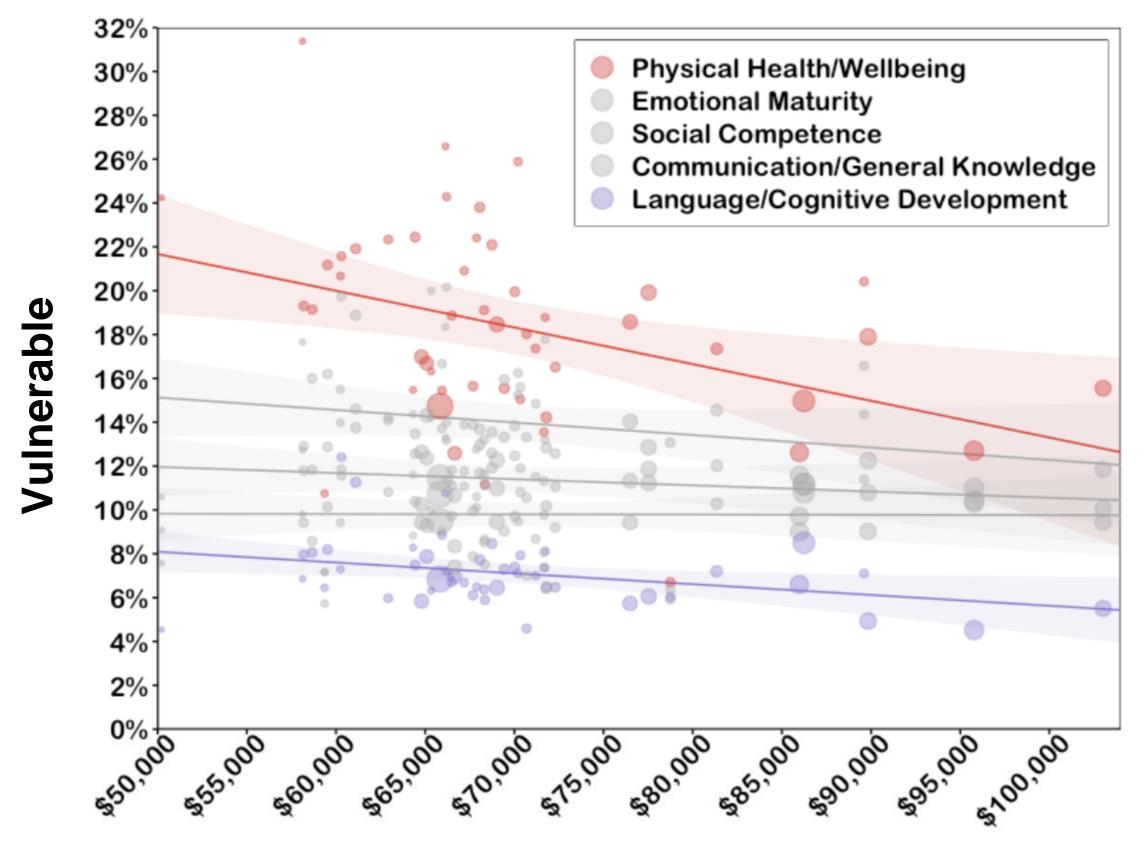
Halton, ON
Ranked **one of the best** places to live in Canada
Median HH income = \$103009

Household Incomes and Percent Vulnerable



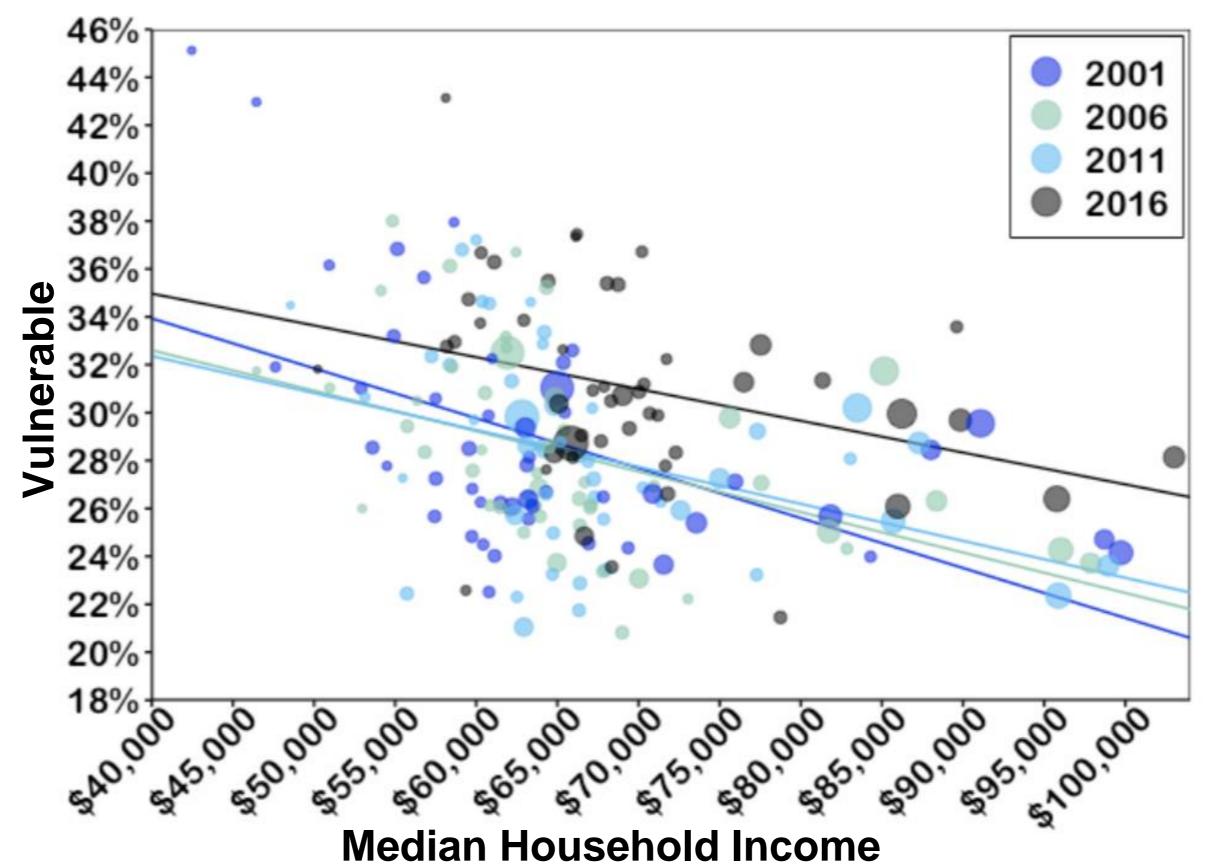
Median Household Income

Household Incomes and Percent Vulnerable

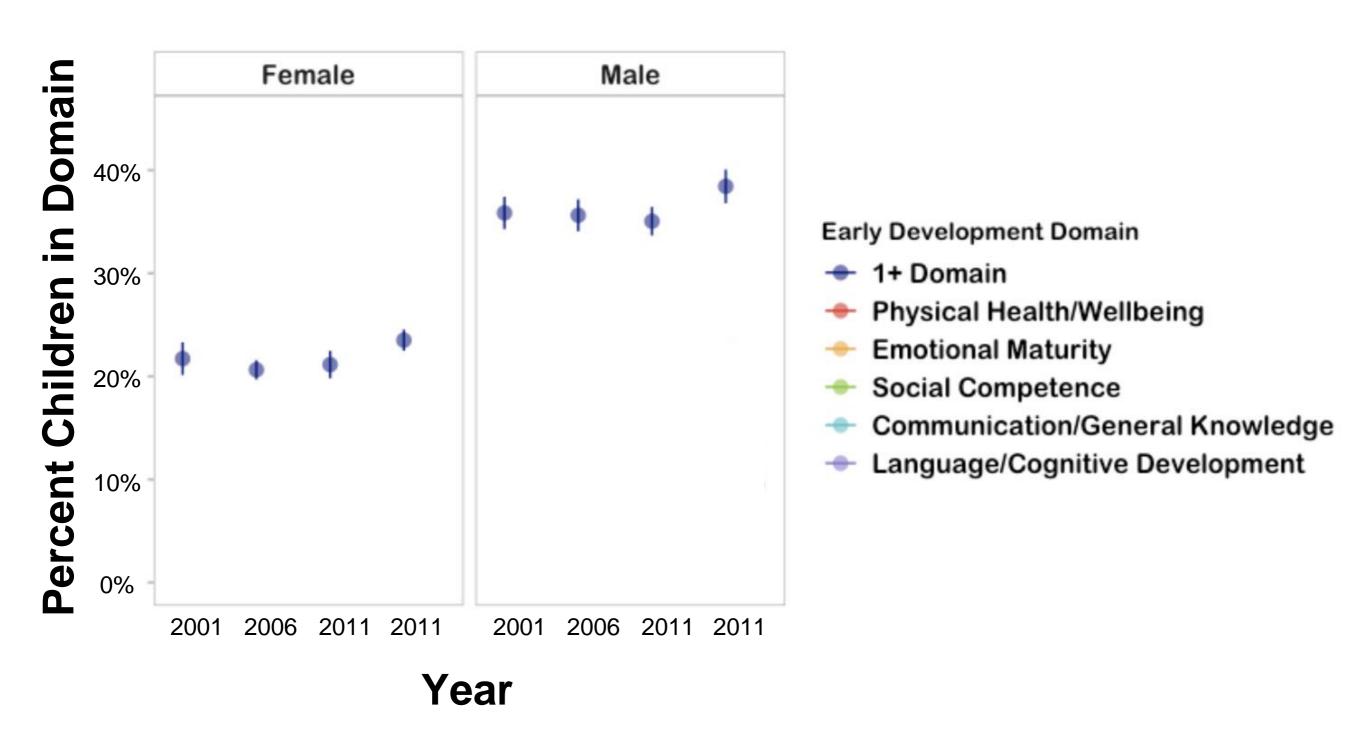


Median Household Income

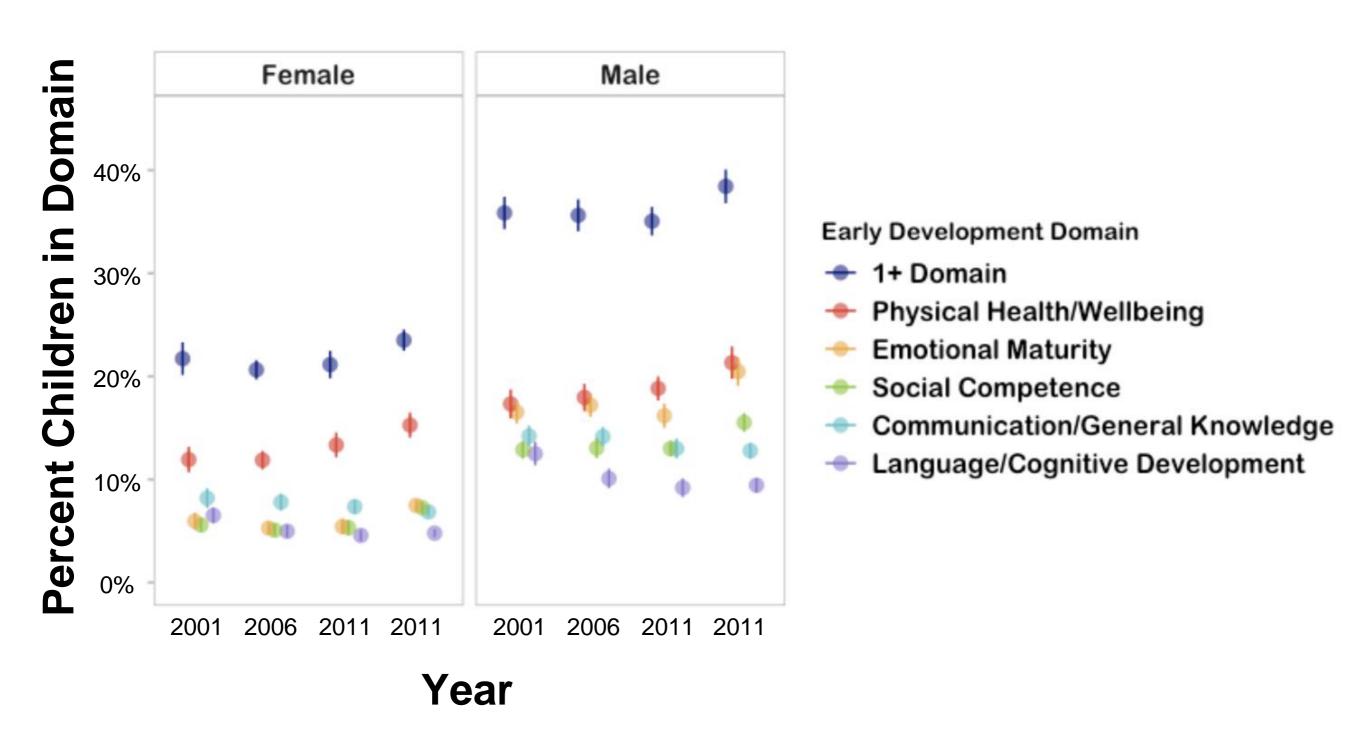
Household Incomes and Percent Vulnerable



Is a certain group more vulnerable?



Is a certain group more vulnerable?



Full Model

Linear mixed-effects model with census division as a random effect

	Vulnerable %		
Predictors	Estimates	CI	p
(Intercept)	6.01	-2.46 – 14.49	0.164
Income.Adj	0	-0.00 — -0.00	0.026
Year	0	-0.01 - 0.00	0.188
sex (M)	0.14	0.14 - 0.15	<0.001
Income.Adj * Year	0	0.00 - 0.00	0.028
Marginal/Conditional R ²	0.726 / 0.815		

Confidence Intervals are 95% Wald confidence intervals

Education Policy Recommendations

Expand public education to pre-school aged children

Increase participation

Increase quality of classroom experience

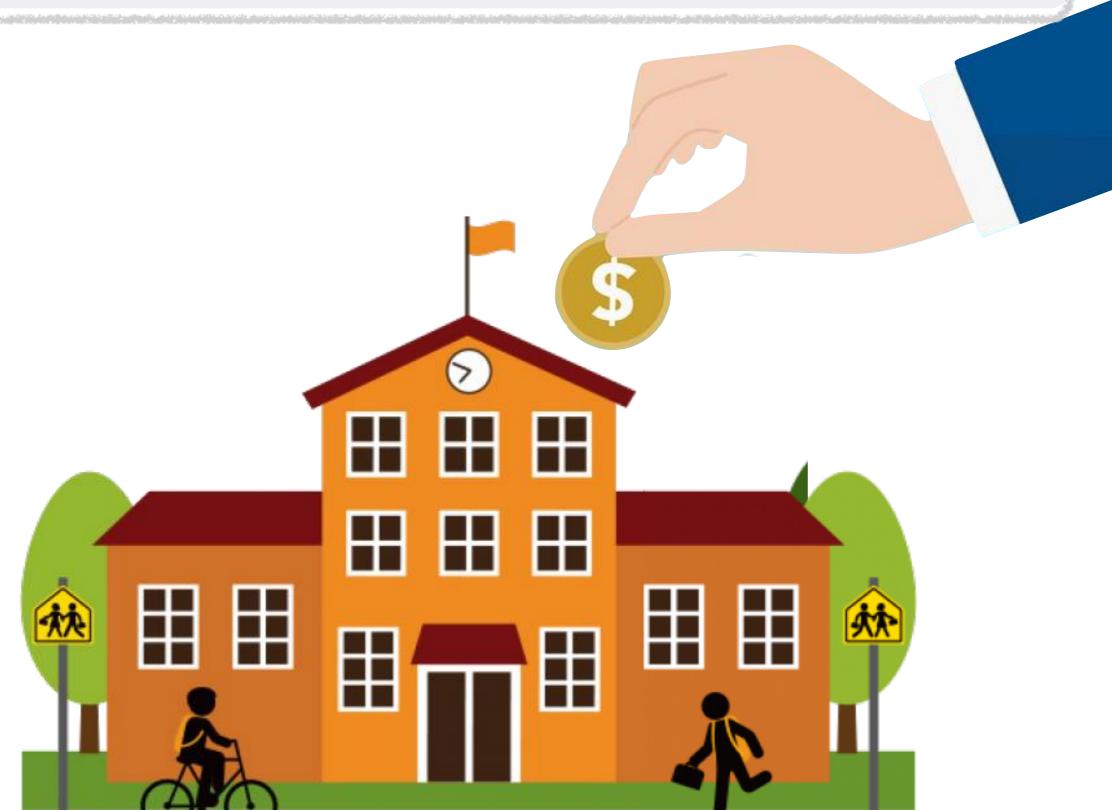
Increase curriculum standards



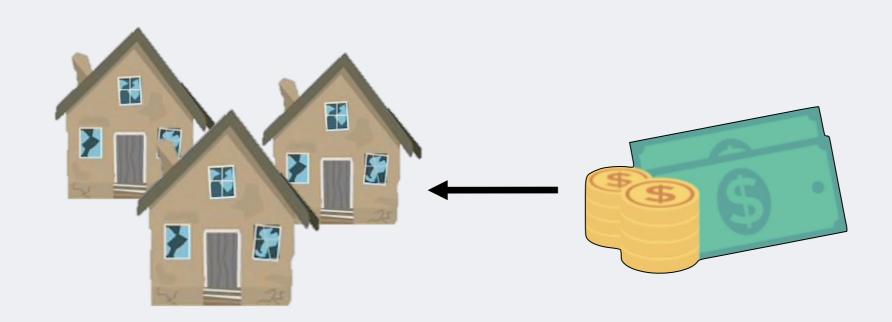


Economic Policy Recommendations

Investing in early education pays off down the road

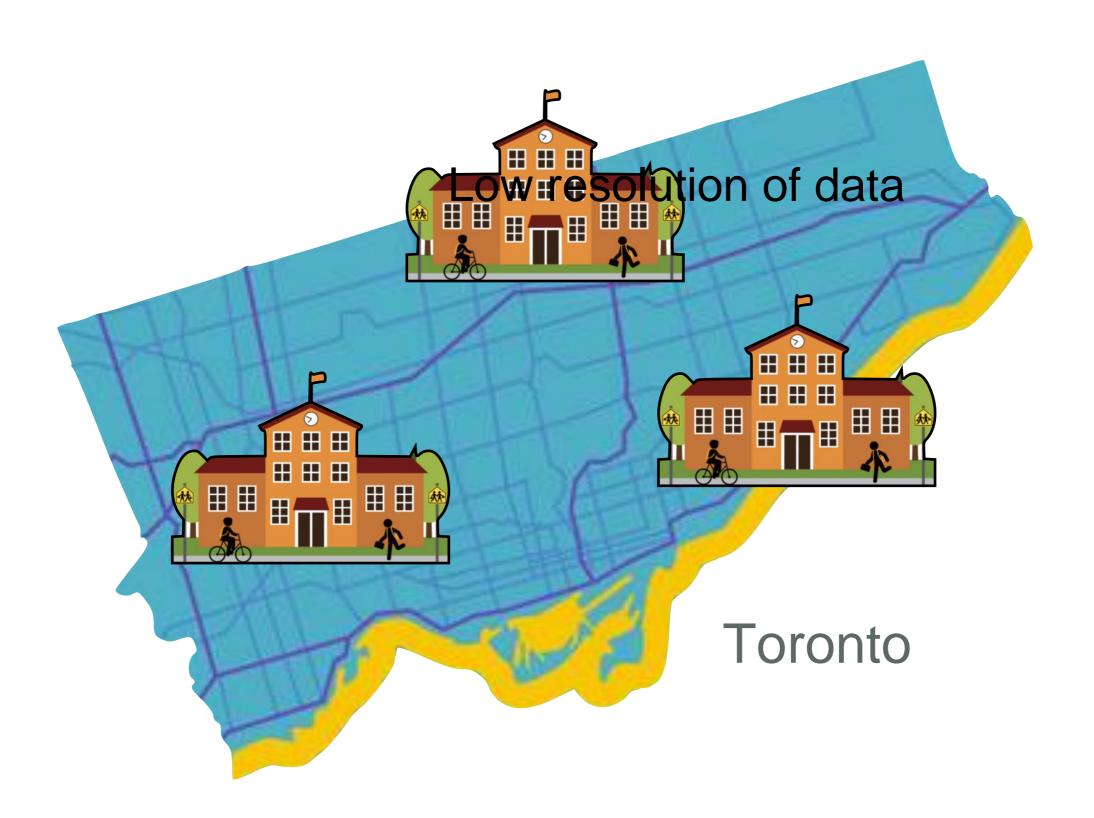


Economic Policy Recommendations



- 1. Invest in poor neighbourhoods
- 2. Create affordable housing

Limitations



Limitations



Low resolution of data







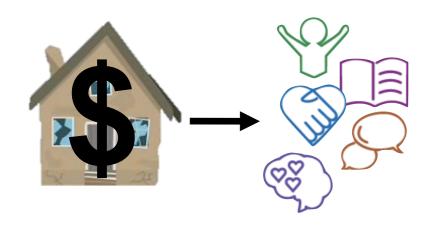






Difficult to assess some domains

Take Home Message







THANK YOU