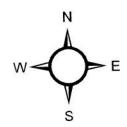
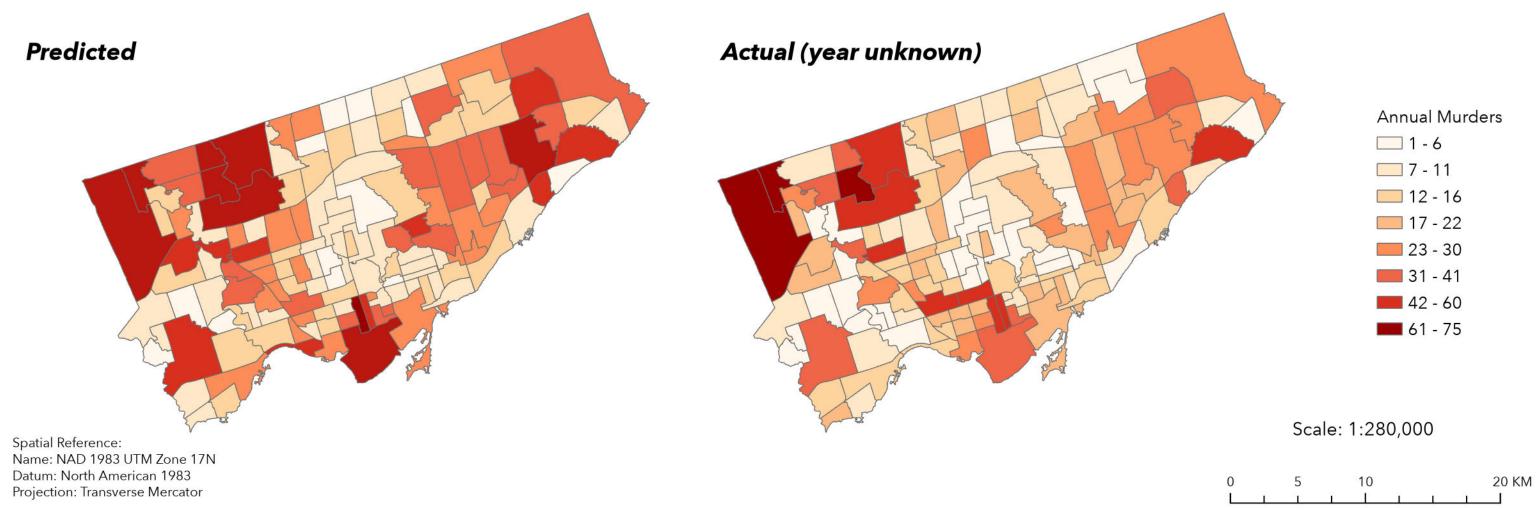
## Predicting Annual Murders in Toronto Neighborhoods GWR Predicted Murder vs Actual Murder Numbers







Comparing predicted annual murder numbers per Toronto neighborhood, using a Generalized Weighted Regression (GWR) analysis, to actual murder numbers

## Neighborhood dependent variables:

- Social Assistance Requests
- Debt Risk Score
- Chronic Obstructive Pulmonary Disease (COPD)
- Asthma Rate
- Employment

## Explanatory Variable results (GWR):

- R2: 0.6561 - AdjR2: 0.6298 - AlCc: 1018.2739

## Ordinary Least Square Explanatory Variable Results:

Variable	Coefficient [a]	StdError	t-Statistic	Probability [b]	Robust_SE	Robust_t	Robust_Pr [b]	VIF [c]
Intercept	69.889482	36.991399	1.889344	0.061007	37.651554	1.856218	0.065621	
SOCASSISTREC	0.005057	0.000747	6.771285	0.000000*	0.001020	4.958995	0.000003*	2.108565
DEBTRISKSCOR	-0.092757	0.043723	-2.121464	0.035717*	0.044928	-2.064581	0.040886*	2.616113
COPD_RATE	-12.437678	5.150664	-2.414772	0.017086*	5.695467	-2.183785	0.030711*	1.732441
ASTHMA_RATE	16.222059	7.313531	2.218088	0.028224*	7.346468	2.208144	0.028926*	1.835586
EMPLOYMENT	0.000308	0.000043	7.185680	0.000000*	0.000069	4.469819	0.000019*	1.118839