

2nd African Forum On Urban Forests

Green Horizons: Shaping the Future Resilience of African Cities through Urban Forests

18 March 2025 - 21 March 2025





a world class African city





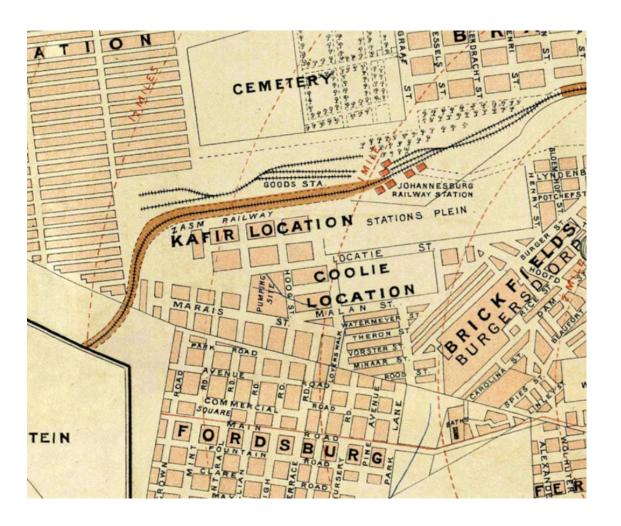


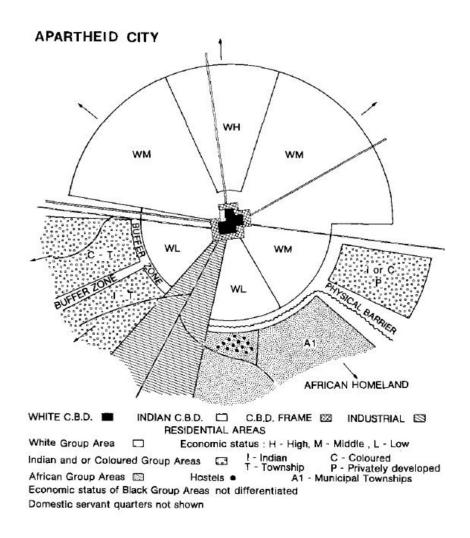
Colonial ontologies and climate vulnerability: a planetary health perspective of Johannesburg, South Africa Jonathan Melamdowitz





Spatial Marginalisation





Detail of Plan of Johannesburg and Suburbs 1897

Davis, R.J. 1981. The model of the apartheid city according to Davies





Spatial Marginalisation

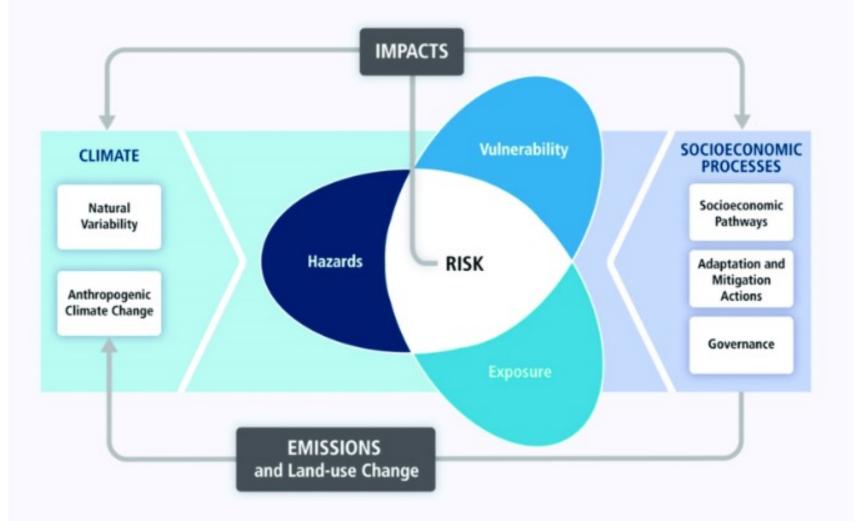








Framework for Risk (IPCC AR5)



The IPCC AR5 conceptual framework with risk at the center

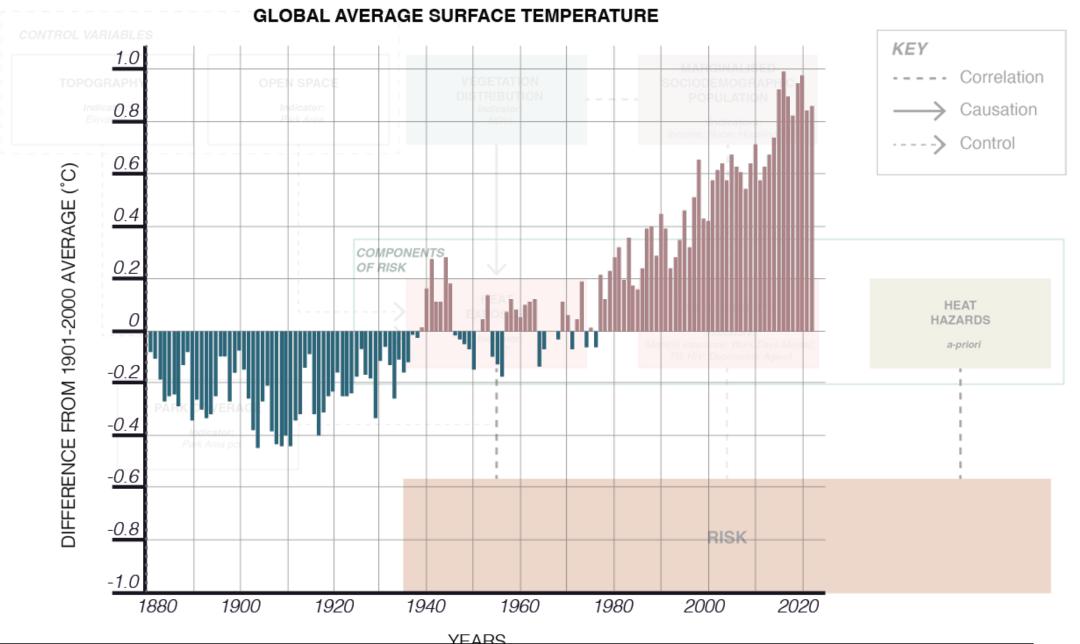




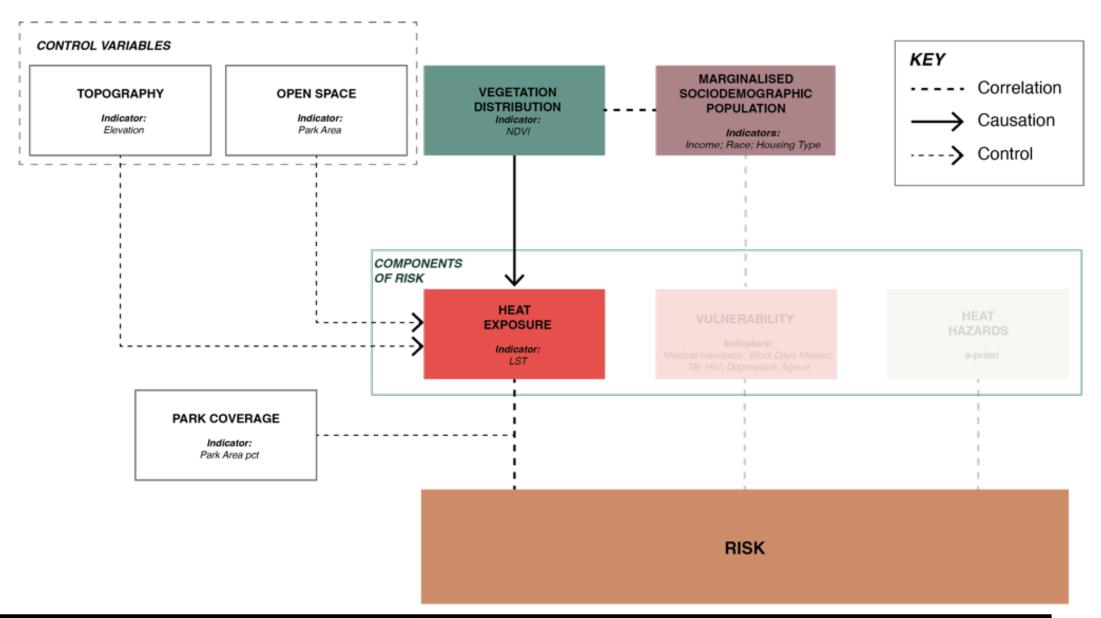
Heat-related Hazards KEY Correlation **TOPOGRAPHY OPEN SPACE** Causation Control COMPONENTS OF RISK HEAT **HAZARDS** a-priori PARK COVERAGE RISK





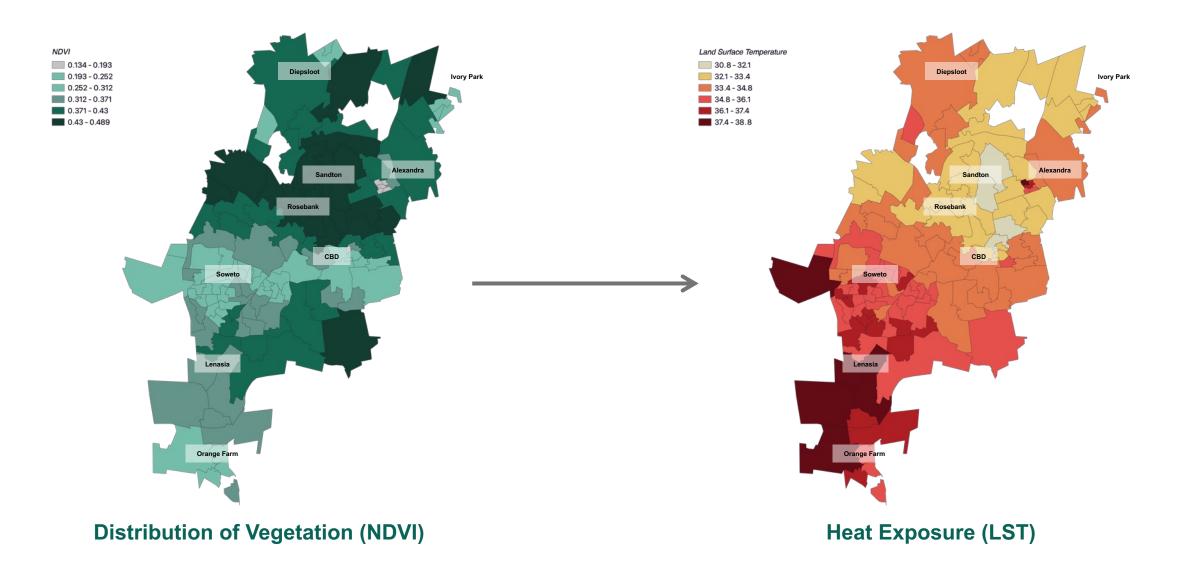








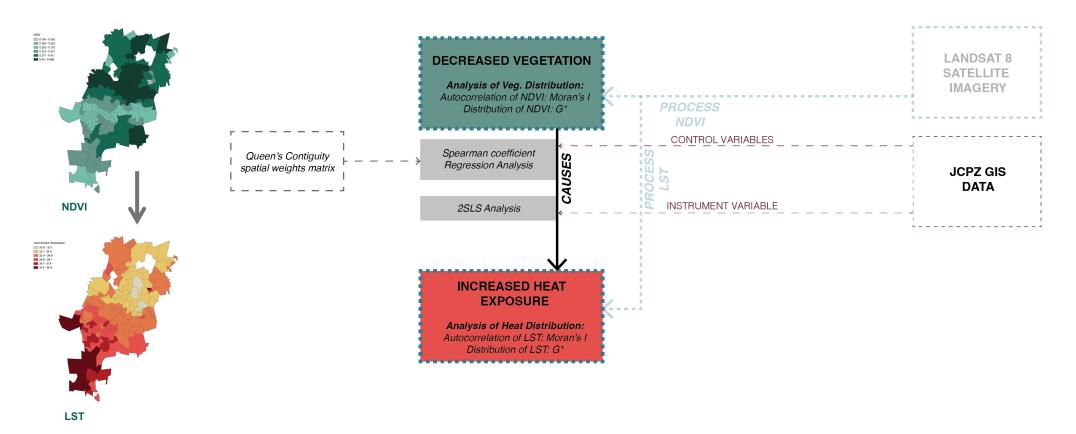
Does the spatial distribution of vegetation affect heat exposure?





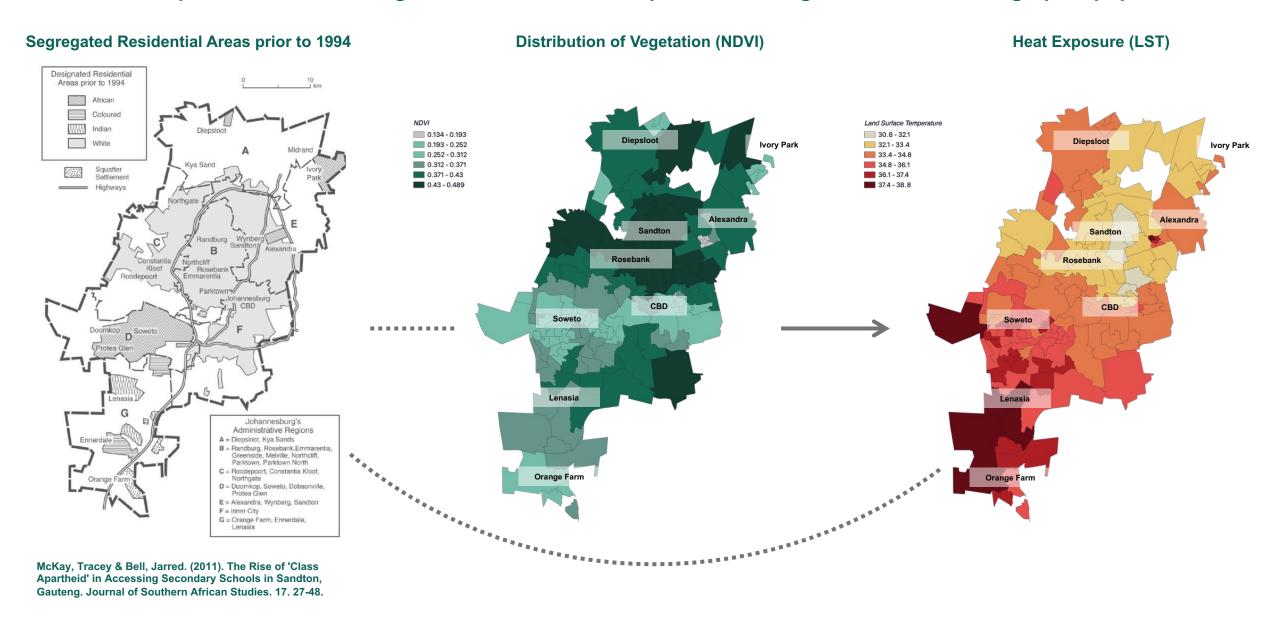


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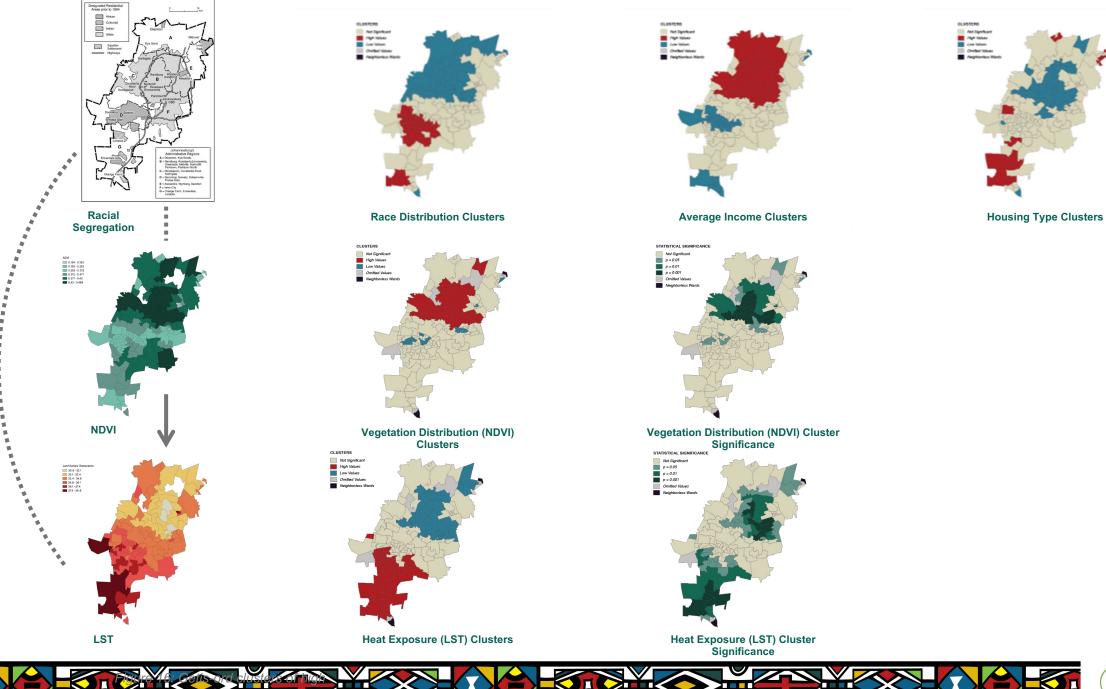




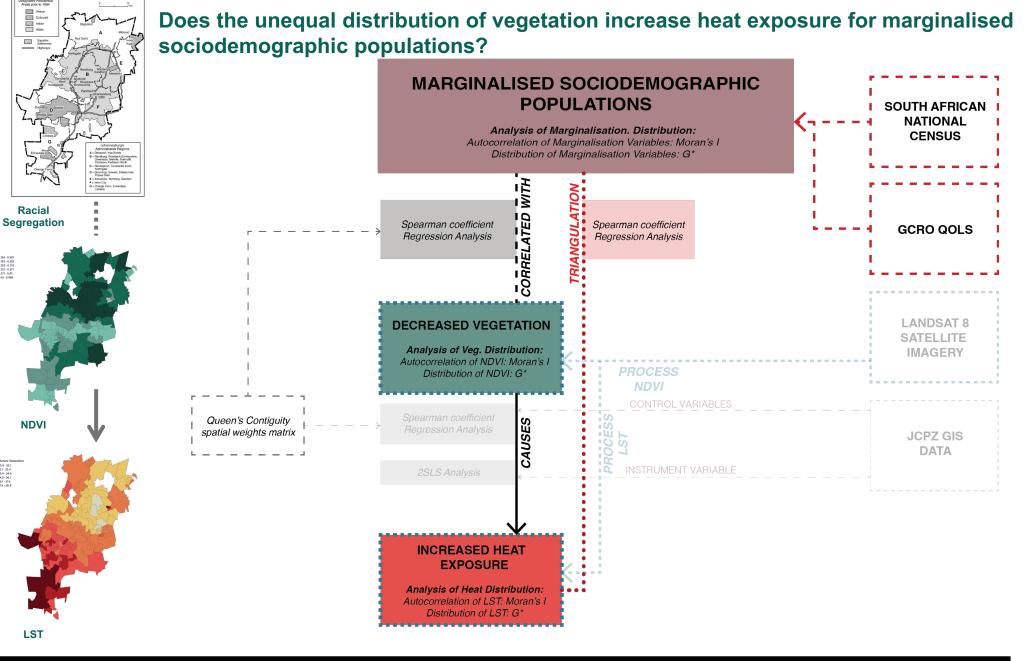
Does the unequal distribution of vegetation increase heat exposure for marginalised sociodemographic populations?





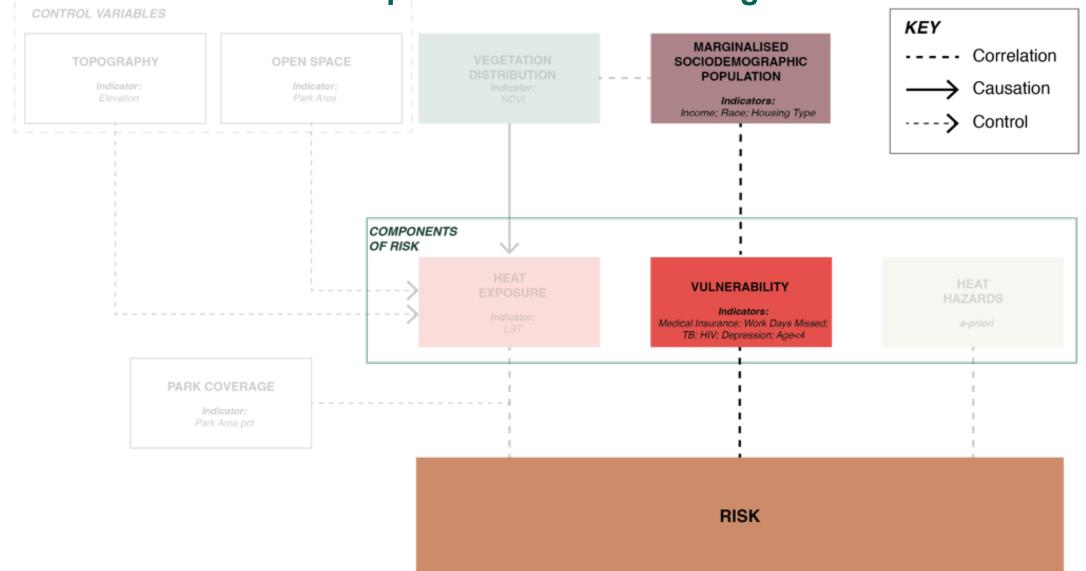






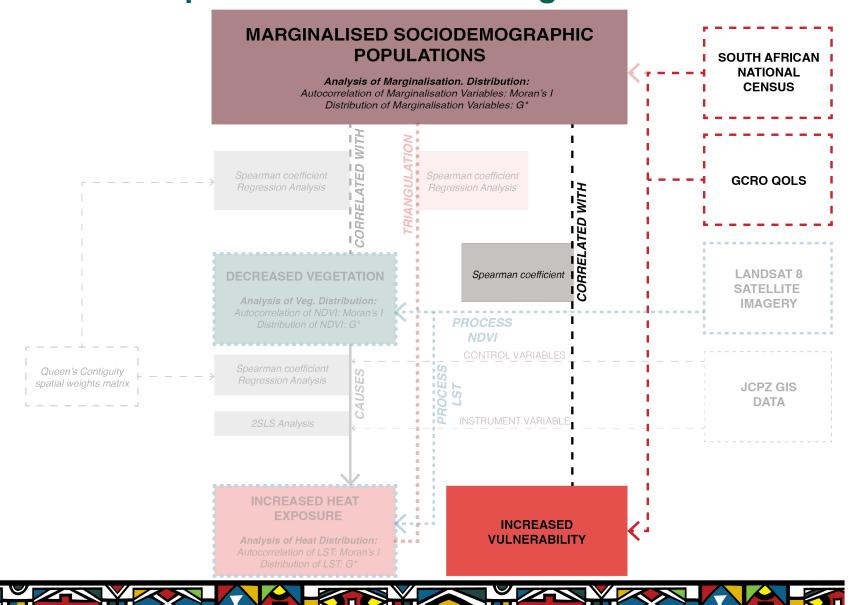


Are marginalised sociodemographic populations more vulnerable to the adverse effects of heat exposure in Johannesburg?



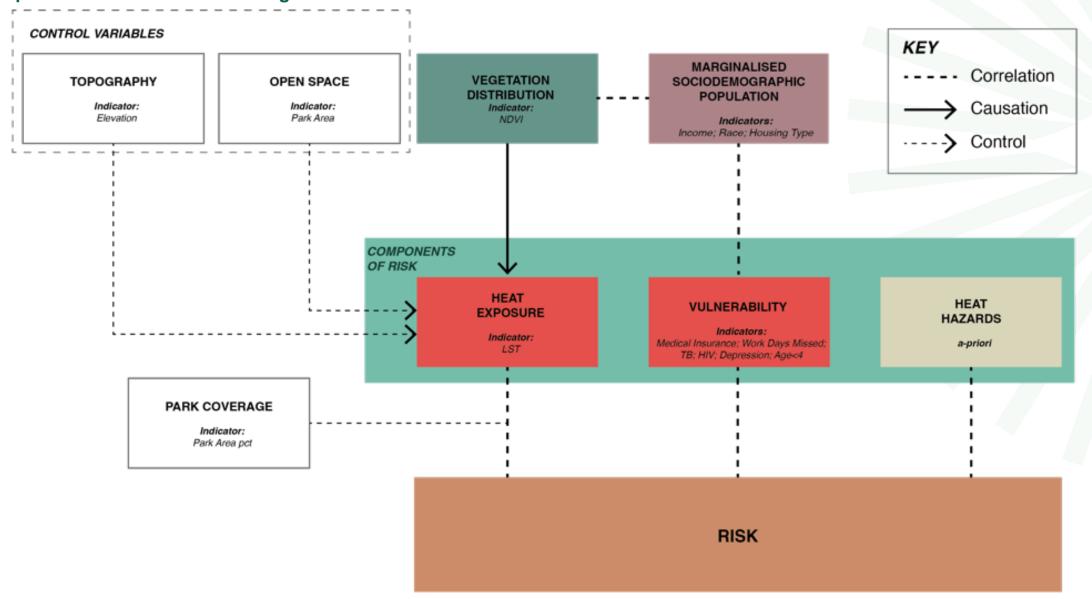


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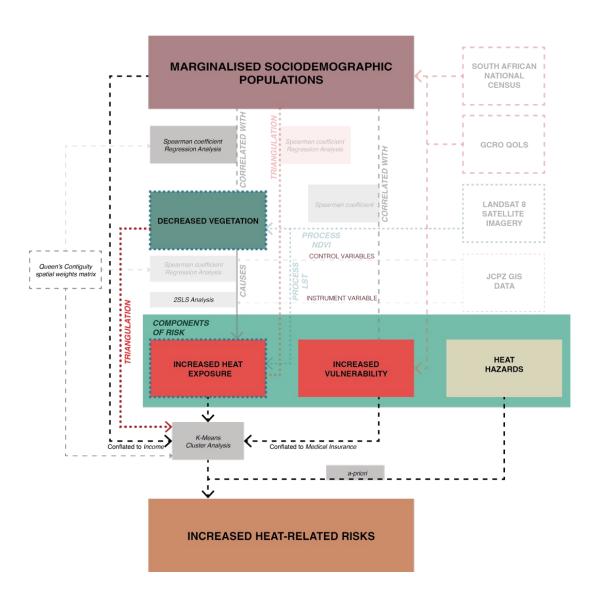


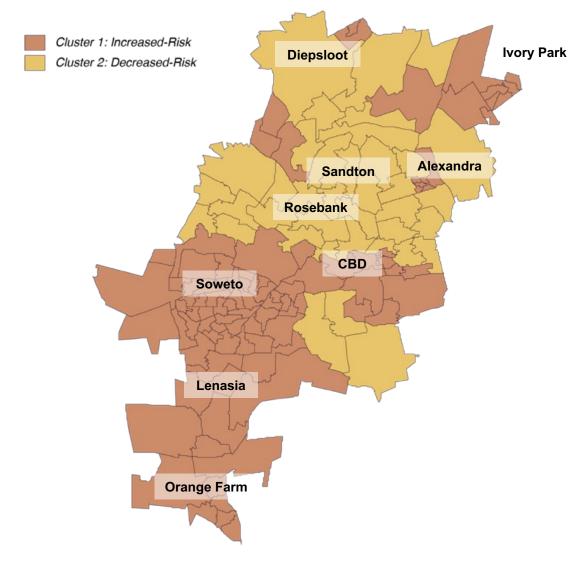
Do increased heat-exposure and vulnerability intersect to produce outsized heat-related risk among socio-spatially marginalised populations within Johannesburg?





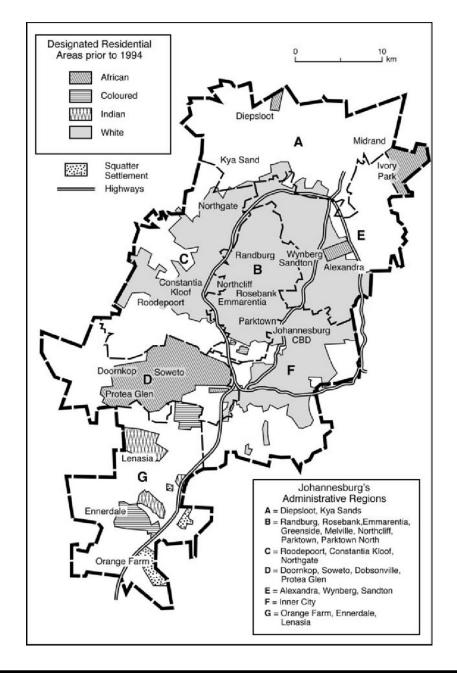
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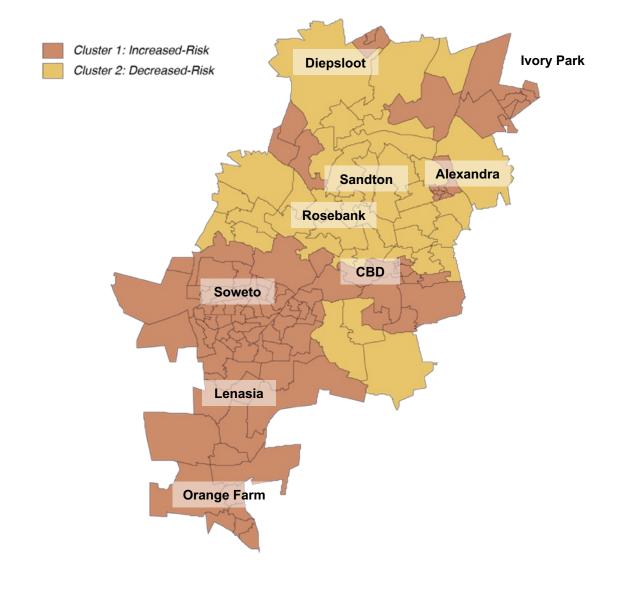
















Thank You.



