

Nonlinear dynamics of epidemic spreading in urban transport networks - impact of paratransit in a case study for Cape Town, South Africa (Acronym: PrePara)

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How do paratransit modes, dominating urban transport networks in many cities of the Global South, influence local epidemic spreading of infectious diseases such as COVID-19? The project team develops a framework capable of quantitatively estimating the joint impact of the organization of paratransit transport service and individual spatiotemporal mobility choices. A successful study will support the evaluation of detailed containment conditions and relaxation scenarios, thereby enabling quantitative guidance for policymaking on a microscopic, sub-city level.

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