

# **A CASE STUDY OF AFTER-HOUR DELIVERY COLLABORATION BETWEEN FREIGHT RECEIVERS AND CARRIERS**

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## **ABSTRACT**

The City of Cape Town is situated in the Western Cape Province of South Africa and serves as one of the economic and political hubs in South Africa. As with most economic hubs and highly populated urban areas, the City of Cape Town is experiencing problems with congestion and its associated financial, social and environmental impacts. One way to address this problem is to convince freight receivers in the City to accept after-hour deliveries. Given that freight delivery vehicles make a disproportionately large contribution to congestion, reducing the number of freight delivery vehicles operating in urban areas during daytime hours can reduce traffic congestion, delivery cost and carbon emissions associated with increased idling (or travelling longer alternative routes) as a result of congestion. This presentation therefore focuses on using a multi-agent urban transport simulation to investigate some of the potential impacts of after-hour delivery collaboration between freight carriers and receivers in the City of Cape Town.