

A routing-based framework for assessing freight consolidation in small cities: A case study of Bergen, Norway

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Abstract

With the increasing population and consumer shift to digital channels, more and more packages are delivered in urban areas. There is also an uberification taking place, leading to an increasing number of delivery vehicles with inefficient capacity utilization. Our research stems from guiding authorities to make freight transportation more sustainable in topologically complicated small cities, where extrapolation from the literature is unlikely to produce reasonably robust answers. In this work, we focus on the role of authorities while predicting how carriers would react to different freight regulations and we realize the impact of freight consolidation. To this end, we propose a routing-based framework and use the real data from the City of Bergen, Norway as an initial case.