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# Investigating the impact of collaborative planning for goods delivery in city logistics: case study

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## Abstract

Collaborative planning of freight delivery in city logistics has attracted the interest of professional and scientific communities. However, as the collaborative planning concept spreads amongst competing logistics companies, many of them are still hesitating about sharing all of their customer orders in the collaboration process. To solve this dilemma, this work investigates how much reduction will be in the transportation costs and CO<sub>2</sub> emissions if each logistics company can set its preferences regarding shared orders, i.e. serving specific orders with its own vehicles while sharing remaining orders with other logistics companies?. First, modelling the collaborative freight delivery problem is illustrated. Then, the benefits of collaborative delivery are investigated using logistical data from real companies.

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