

Benefit Of Waste Collection Route Optimisation

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Abstract : Route optimisation is a process of planning one or multiple routes, with the purpose of minimizing overall costs, while achieving the highest possible performance under a set of given constraints. It combines routing or route planning, which is the process of creating the most cost-effective route by minimizing the distance or travelled time necessary to reach a set of planned stops, and route scheduling, which is the process of assigning an arrival and service time for each stop, with drivers being given shifts that adhere to their working hours. The objective of this paper is to provide benefits on the implementation of waste collection route optimisation and thus achieve economic efficiency for public utility companies, better service for citizens and positive environment and health.

Keywords : waste management, environment, collection route optimisation, GIS

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