

## Article

# Influence of the Municipal Solid Waste Collection System on the Time Spent at a Collection Point: A Case Study

Mar Carlos \*, Antonio Gallardo , Natalia Edo-Alcón and Juan Ramón Abaso

Department Mechanical Engineering and Construction, Jaume I University, Av. de Vicent Sos Baynat s/n, 12071 Castelló de la Plana, Spain; gallardo@uji.es (A.G.); edo@uji.es (N.E.-A.); a1064202@alumail.uji.es (J.R.A.)

\* Correspondence: mcarlos@uji.es; Tel.: +34-964-728-114

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**Abstract:** Waste management plans pay attention to municipal solid waste (MSW) collection systems. It represents a significant portion of waste management as it involves a great economic cost and environmental impact. For these reasons, many researchers have studied the optimization of collection routes, analyzing factors that make them more efficient and sustainable, for example, the overall distance traveled and the time spent on the route. Collection times depend on factors such as the speed of the truck, time at traffic lights or time spent on loading and unloading the waste. The loading and unloading times play an important role in the measurement of the total time of the route. Moreover, there is scarce information in the literature about measuring the real-time spent on the trip. All those times are necessary to optimize the total route time. However, it is difficult to obtain this information directly as it depends on parameters such as the type of truck. The aim of this work is to propose a methodology to define all the times involved in the waste collection process. Once they are well defined, they have to be measured in some cases or calculated in others. This work also presents a case study to validate the proposed methodology with an extensive fieldwork to measure those times that can't be calculated in the waste collection process. The work presents the results of a study of the time spent at a collection point in six MSW collection systems using different types of collection trucks and bin designs. We have determined how the characteristics of the system affect the time spent at a collection point. Additionally, the times for the six models have been established. Finally, we have determined the influence of the collection model in the duration of the activity. Under certain conditions, times can coincide even though the models are different.

**Keywords:** micro-routing; municipal solid waste; truck; bin; loading time; collection point

## 1. Introduction

The optimization of municipal solid waste (MSW) collection routes is one of the main aims of waste management. Reducing the time spent collecting MSW is crucial to improve the service, to minimize the emission of pollutants into the air, and to reduce the economic cost of the overall waste management [1–3]. Several factors help to reduce this time, such as the number of waste fractions collected separately, the type of collection system, the type of trucks and bins, the routes of the trucks, and so on.

From an economic point of view, some authors showed that economic and political factors affect the provision of waste management services in different ways [4]. They examined five alternatives in an area, including public and private service delivery formulas and, within each field, individual and joint options. They highlighted the importance of the service cost and that of the various indicators of fiscal stress as factors that determine management decisions. However, the operational

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