



CASE STUDY SELÇUKLU MUNICIPALITY



• Overview

Selçuklu is a town and district of Konya Province in the Central Anatolia region of Turkey. Selçuklu, one of the largest districts in Turkey, has a population of more than 640.000. Therefore, Selçuklu Municipality plans its services to satisfy the needs of this steadily growing population. With its one collection truck for waste collection operations, the Municipality wants to use its resources in the most efficient way and increase its service area for a higher citizen satisfaction.

• Challenge

- Tracking of the limited assets including collection trucks and waste containers is not possible.
- Scheduling of waste collection operations is complicated due to the waste generation behavior of residents and due to the lack of data from the field.
- Making data-driven decisions is challenging due to the inability to store and regularly process the data.
- Paperwork is time-consuming and complicated in terms of data storage and interpretation.

• Solution

A total of 293 Evreka sensors have been installed to the waste containers.

Through Evreka sensors; fullness level, temperature, location, and movement information of the waste containers have been monitored.

End-to-end resource and operation tracking in real-time basis has been provided by Evreka Platform.

Daily optimized routes have been created by Evreka forecasting algorithm for the most efficient and environmentally friendly waste collection operations.

Result

47% overall system improvement is achieved.

26% increase in the total number of containers in a collection truck's responsibility area is achieved thanks to the asset relocation suggestions.

8% decrease in the number of average containers collected on a route is achieved.

15% decrease in a single route duration is achieved although the number of containers in the collection truck's responsibility area is increased by 26%

9% increase in average fuel consumed is seen although the average route length is increased by 28%



Evreka is a hardware-enabled SaaS company providing high tech and environmentally friendly solutions to traditional waste collection systems. The company operates in France, Germany, Switzerland, Turkey, Russia, the United Arab Emirates, Pakistan, and India.