



Automating waste collection and reporting

Challenge

- LLC Gornozavodsky enterprise for public utilities manages waste collection and disposal in a small town in Perm Krai. The core issue they faced was a lack of information for decision making and no automation of routine processes:
- Due to a large number of container sites (1,224), it was challenging to keep a log manually – they collected waste from 831 sites daily, which comprised 27,000 trips per month;
 - No control over actually executed work;
 - No automatic synchronization between container site directories of the client and the regional waste collection operator – they had to duplicate data manually;
 - Time-consuming report generation – they created reports once a month, which was not enough to understand the current situation;
 - No statistics for further planning.

The company needed a comprehensive waste management telematics solution to solve these problems.

Solution

- For this project, Wialon partner NSC (National System of Control) developed a [telematics solution](#) with the following functionality:
- maintain directories of container sites, creating new ones by synchronizing with the Wialon Hosting geofences;
 - synchronize directories with the regional operator’s software PAC ACS Big Three – the integration was carried out using Wialon SDK and API;
 - assign transport for different types of work;
 - keep route logs to see the actual work done;
 - keep waste collection schedules to get statistics on the average number of trips per week/month;
 - automatically generate job completion acts at the end of the month and send them via email;
 - freeze billing periods when there are no changes;
 - distribute access rights.

The company is planning to supplement the app’s functionality with the [Logistics](#) app. It will provide the ability to plan routes and send photos via a mobile application to confirm waste collection.

Results

The Wialon partner has created a comprehensive system for monitoring, management, and reporting for the customer from the ground up. The system enables end-to-end control of waste collection and management and effective decision-making based on the data received.



Complete record-keeping

Waste collection from all container sites is under control



From 12 to 9

The garbage trucks operating in one area reduced to this number



\$2,600+

Fuel savings per month



\$1,300+

Salary savings per month

Company profile

 **IoT project of the year nomination:** Waste management

Industry: Public utilities

Solutions

 Wialon

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