



Monitoring waste management in Russia

⚠️ Challenge

LLC Gornozavodsky enterprise for public utilities deals with waste collection and management in a small town in Perm Krai, Russia. 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, the Wialon partner in Russia 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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