

Ensuring safe driving in the concrete production industry

⚠️ Challenge

LafargeHolcim is engaged in the manufacturing and sale of building mixes and concrete along with nonmetallic mineral mining and quarrying. Working in this production is dangerous, so it is important for the company that employees comply with the uniform safety requirements adopted both in the industry and in the company. This also applies to the use of equipment. Speed should be less than 40 km/h in the quarry, and less than 20 km/h on the territory of the site.

The company has a large fleet including 100 units of quarry and factory machinery. To reduce production-related risks, avoid accidents, and comply with the requirements, driver monitoring and driver behavior correction are essential. Therefore, the company decided to connect its vehicles to a driving quality control system.

🔧 Solution

The company had used a Wialon-based control system before for the rented vehicles involved in concrete transportation. As LafargeHolcim's own fleet grew up, they decided to configure a **specialized report on operation time violations and driving quality** for their quarry and factory machinery.

Geoservice, a professional integrator and Wialon's time-honored partner, offered an eco-driving solution based on Wialon Hosting.

- A **GPS/GLONASS monitoring platform** is used to set up geofences and monitor the connected vehicles.
- [flespi](#) helps obtain telematics data from diverse devices and unify their protocols.
- To analyze driving quality and rate a driver, Geoservice has launched their service, **GeoService24**. It allows assessment of driver behavior based on a clear algorithm by scoring points to drivers for each violation.

Now, the customer can use the sum of points as a single KPI for driver behavior. If drivers have a high score, which means they violated rules too often, they are not permitted to work.

As for the hardware, [Navtelecom](#) SMART trackers and RFID readers were selected. In some cases, Geoservice specialists had to install equipment at the mining quarry sites.

🏆 Results

The ready-made solution allowed the customer to introduce a reward and penalty system. Now, professionals at the manufacturing site monitor driving parameters from a large number of vehicles, generate reports, and control driver behavior. Next comes the installation of more up-to-date trackers and the connection of additional vehicles.

✅ Better driver behavior

Driver behavior at the site has considerably improved due to monitoring and clear KPI.

✅ Compliance with international standards

LafargeHolcim is an international company. So the same uniform requirements have been implemented at the Russian site as those in other countries.

✅ Single control system

It has become possible to monitor all data related to the driving quality within a single solution, to react promptly to violations, and to make strategic decisions.

Company profile

🏆 **IoT project of the year nomination:** Ready-mix concrete

Industry: Mining and processing

Solutions

 Wialon

 flespi

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