

GPS MONITORING OF ROAD TRANSPORT

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GPS monitoring is a way to always understand where the car is at the moment, what its technical condition is, whether it is in motion or not. The operation of the system prevents a false increase in mileage by drivers, unreasonable downtime of the fleet, the use of transport without destination. Modern sensors monitor the fuel level in the tank with an accuracy of up to 1 percent. All gas stations and fuel drains are linked to places on the map, taking into account time. GPS monitoring solves the following problems:

1. Inappropriate use of transport; control of location, speed and route.
2. Theft of transported cargo or fuel.
3. Control of refrigerator modes and temperature telematics of transportation.
4. Monitoring of compliance with the work and rest regime of drivers (AETR)

The main functions of GPS monitoring of transport:

1. Location of the road transport stop;
2. The speed of the driver;
3. Actual distance;
4. Fuel consumption;
5. Which of the couriers is closer to the base;
6. Fulfill the tasks assigned to GPS monitoring, or usage of working time and fuel resources to solve personal issues.

This system monitors the exact location of the transport, its mode of operation, speed and accurate mileage by GPS. All the analytics of its condition for any period of time will also be available. You can instruct the system to automatically generate the necessary reports on the operation of transport, and send them in any format. The principle of operation of the system is the operation of some elements:

1. GPS tracker. This device determines the coordinates of the object. In order to be able to view the location on the map, special software is needed.

2. Tracker data processing service.

3. Event sensor. It reports on events that occur in transport.

The GPS monitoring system can be used not only in transport logistics, but also in other areas, such as:

1. Agriculture.

2. Construction and special equipment.

3. Public transport.

4. Courier delivery.

GPS monitoring of motor transport makes it possible to increase the efficiency of using the fleet, control costs based on the analytical data obtained, determine actual costs, reduce the cost of maintaining the fleet, optimize logistics and obtain the necessary data for making management decisions quickly.

References

1. Система GPS мониторинга транспорта [Electronic resource]. – Mode of access: <https://www.navirec.by/>. – Date of access: 09.04.2023.