nexogen by Transporeon

Girteka

CASE STUDY

Artificial intelligence solutions for fast and flawless transport planning

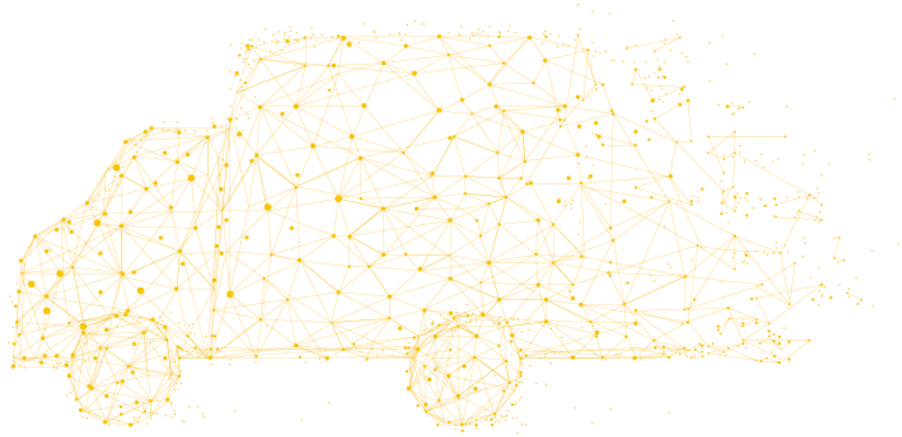
nexogen by Transporeon Girteka

About the customer

Girteka was founded in 1996 in Vilnius, Lithuania by Mindaugas Raila. It all started with a single MAN truck and three employees: a chief executive/manager, a driver, and an accountant.

Today, Girteka is one of Europe's largest transport companies with an international team of over 23,000 people. The company delivers more than 760,000 full truck loads annually and organically grew from its single-truck beginnings to 600 trucks in 2010 to more than 9,200 trucks and 9,800 trailers operating in Europe, Scandinavia, and the CIS in 2022.

Every day, Girteka is trusted by the world's leading brands and has become the first choice for each of its stakeholders: clients, colleagues, community, shareholders, and partners.



The challenge

The logistics business is very dynamic and fast paced and there is no room for mistakes or delays. This means that the job of today's transport manager is a tough one. Planning transport and deliveries requires focus and verified data. As every minute counts, it is crucial that cargo is transported on the best possible route, where all performance indicators are aligned with the customers' needs; things like cargo loading, delivery dates and route restrictions on heavy truck delivery. By using an interactive map, the transport manager also needs to find appropriate rest stops, safe parking spaces and must also ensure all on-the-road expenses are covered, including petrol, tolls, ferries among others. **Experience and knowledge, but also accurate information, is essential in order to deliver on time and as promised.**

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The solution

Nexogen by Transporeon developed the industry's most advanced on-demand optimisation engine. It uses a purpose-built Artificial Intelligence (AI) that improves the way that in-house teams plan and operate full truck load (FTL) logistics.

Fleet Operator by Nexogen for transport planning optimises itinerary based on requirements like estimated arrival time, distance or emissions. The system is updated every 5 minutes, so if there are changes en route, Fleet Operator will recalculate using the new data and suggest a new itinerary.

Girteka's 9,200 trucks are on the road daily and all the data from those trucks is gathered and stored. That information, along with additional variables like road standards, potential secure parking places, and locations of petrol stations, feed into Nexogen's Fleet Operator, enabling it to learn and improve.

> **"The goal of any AI solution is clear – simplify, reduce mistakes, speed up results, increase the efficiency of the process itself, and learn from it. The clue is whether the process that people normally control can be defined as an algorithm with the possibility to develop itself based on gathered data. In Girteka, with support from external companies like Nexogen by Transporeon, we can build those processes and simulate them,"** explains Dainius Augutis, Head of Transport Function Support Division at Girteka.

All information about where to go, when, which way and where to rest or refuel is delivered to the driver via Transics hardware. That information ensures that the driver has all the necessary information they need so they can focus on delivering the cargo safely and on time.

The results

Whether on a simple route or a more complex one, using Fleet Operator saves Girteka time, and reduces errors and emissions. Recent examples show that following a route / itinerary defined by Fleet Operator **reduced transport time by 10% and reduced fuel consumption and emissions by approximately 7%**. For companies with a focus on sustainability like Girteka, it is valuable information. With AI and real-time visibility solutions, customers and transport managers have on-demand information about cargo, route, ETA, estimated emissions, and overall distance.

This is the first step on a journey towards a fully digitalised logistics service. With help from software tools, it is possible to speed up the optimisation of supply chains and achieve sustainable results. At Girteka, AI tools are employed alongside other systems like RPA or RTV, always in the latest and most advanced trucks and equipment.

The future

With so many changing factors, it is becoming more and more difficult for planners and dispatchers to make quick decisions without AI-support. Latest developments in the market have proven the value of using AI in planning and in the execution of FTL-transport. AI-supported transportation planning has already proven itself and will continue to improve efficiency and performance in the future, while more and more data-sources will be available to be taken into account.

“With more than 765,000 FTLs in 2022, it is sometimes impossible to plan them all manually. **But thanks to the Fleet Operator by Nexogen, we are not only planning transportation but also optimising it in terms of the estimated arrival time, route, length, or emissions.** That is a huge advantage in terms of quick and flawless planning and customer response time. What can be added is that our drivers are now getting an easier way to access all the needed information to deliver cargo.”

Dainius Augutis,
Head of Transport Process Division, Girteka


To learn more about our AI Engine for FTL transport
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