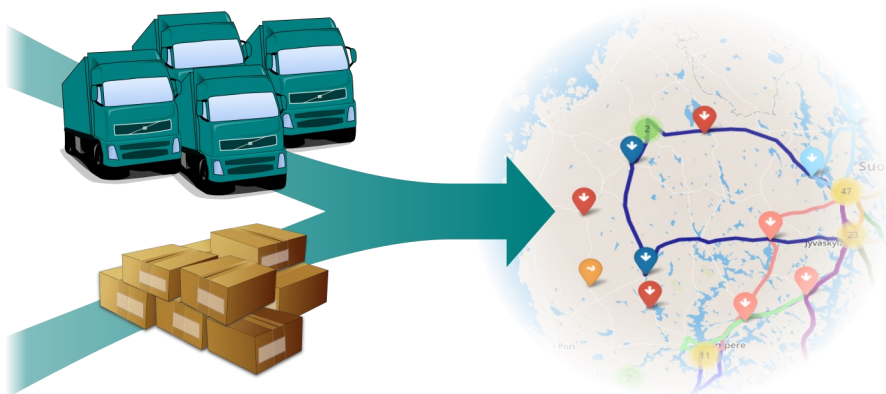# N Fleet

Scale up the use of your transportation capacity

NFleet is a transportation planning service, designed to support transportation planning in companies transporting goods, materials, or people. **NFleet** supports modern multimodal transportations e.g. city centre operations where eBikes and trucks work in cooperation, thus effecting climate and traffic.

Optimization

NFleet's automated transportation planning is based on mathematical optimization computation. Our optimization utilizes metaheuristic combinatorial optimization methods. The NFleet service is based on academic research on these methods, as well as long cooperation with our customers.

NFleet customers are benefitting from

MORE EFFECTIVE ROUTES • MORE EFFICIENT WORK SHIFTS • LESS VEHICLES NEEDED
HIGHER CAPACITY UTILIZATION • FASTER PLANNING

NFleet users send vehicle and task data into a web-based planning service, after which optimization combines vehicles and tasks simultaneously into cost-efficient dispatching and driving plans.

The service is accessible directly through our web application, or it can be integrated into existing transportation management systems or ERP applications. Our monthly subscription is risk-free for our customers.

NFleet users utilize the service in daily operational planning, in calculating price quotations to their clients, and in strategic planning. **NFleet** also enables re-planning and controlling sudden changes in transportation tasks during the day, when vehicles are already on routes.

Contact us, we would be happy to offer a short evaluation project to perform optimization with your vehicle and transportation task data.

NFleet optimization allows

- Multiple pickup and delivery points
- Time windows for both pickups and deliveries
- Rules for loading and vehicle-task compatibility restrictions
- Several simultaneous capacity measuring units (e.g. weight, number of pallets etc.)
- Distribution from or collecting to several terminals, also selecting the best terminal
- Vehicle cost
- Support to heterogeneous fleet of vehicles (cars - bicycles - couriers)
- Several sequential loads during the day
- Work and driving time restrictions
- Addresses or coordinates
- Actual speed limits and road types of the road network
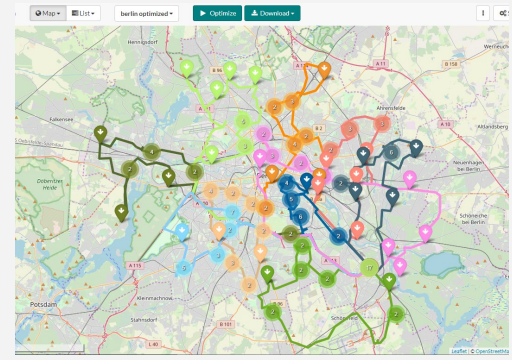
Integration options

Microsoft Excel or CSV-files, Microsoft Access or direct RESTful JSON API-integration

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NFleet Oy • www.nfleet.fi • info@nfleet.fi • Pajatie 8, FI-40630 Jyväskylä, FINLAND •

NFleet

A modern comprehensive solution for digital transportation logististics

Digital services will be a standard in the transportation industry as well. The deployment of these services requires changing and developing existing work processes. Our solution offers the needed elements for digitalizing the whole order-delivery chain which enables planning and managing transportations in a new and more efficient way.

NFleet web application is easy to use. It can be used alone and also when the service is integrated to a transport management system.

A fully digitalized transportation logistics solution enables
IMPROVING OPERATIONAL RELIABILITY • REDUCING MANUAL WORK
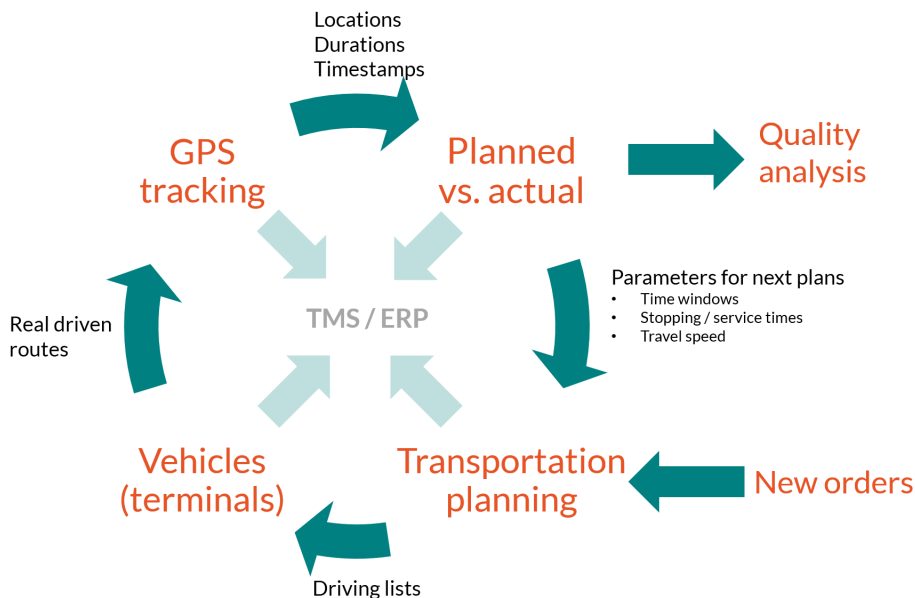### ACHIEVING SIGNIFICANT OPERATIONAL EFFICIENCY

The data produced by the existing digital systems of transportation companies can be utilized for dispatching and transportation planning. Our solution opens up new possibilities for automating the planning process as well as monitoring the quality and efficiency of operations. The solution also facilitates the deployment of optimization and utilizing it in operational transportation planning.

A solution for digital transportation logistics

- Receiving orders electronically

- Transportation planning with optimization

- Sending data directly to vehicle terminals

- Real time GPS vehicle tracking

- Monitoring plans in comparison to actual situation for analysing the quality of operations

- Controlling the optimized transportation planning and ensuring the digital data to be up-to-date with the history data.

GPS tracking

Locations
Durations
Timestamps

Planned vs. actual

Quality analysis

Real driven routes

TMS / ERP

Parameters for next plans
- Time windows
- Stopping / service times
- Travel speed

Vehicles (terminals)

Transportation planning

New orders

Driving lists

Our services for ERP-Software providers

We would be happy to help you expand your service offering. By integrating NFleet into your software you are able to include optimization capabilities to your system without the laborious in-house implementation of optimization algorithms.

Let us know, we would be happy to analyze your company's requirements and offer a comprehensive solution for digitalizing your logistics operations.

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