Transportation Management

PSItms - Route Planning and Optimization

PSItms plans realistic and drivable routes with the highest acceptance by dispatchers and drivers

Automatic route planning can only be as good as the information provided, which reflects the logistical reality. For this, PSItms combines exact routing data with a multitude of rules for mapping logistics requirements and sophisticated algorithms for tailored routes.

Functions

+ Pickup & delivery: Combined collection and delivery routes
+ Time windows, loading and unloading times, driving and rest times
+ Vehicle and ramp restrictions, dimensions and weights
+ Industry- and cargo-specific routing
+ Loading patterns
+ Real-time traffic information as well as roadworks and disruption forecasts
+ Incremental optimization and post optimization
+ Intra- and inter-route optimization
+ Configurable multicriteria optimization
+ Support for electromobility

PSI

Do your dispatchers wish for route planning?

Acceptance is the central theme of algorithmic route planning. Too often, special dispatcher knowledge is needed to effectively implement systemically planned tours. Typically, the savings potential of improved logstics processes with fewer kilometers and a better CO_2 footprint is typically being neglected. PSItms plans routes by sustainably considering dispatcher knowledge and combining it with algorithms and AI methods.

Through a combination of rules, restrictions as well as pre-planned routes together with accurate geodata and traffic forecasts, PSItms can map the entire range of recurring and daily transport requirements in automatic route planning. Nevertheless, your dispatchers retain full control and can change routes specifically and ensures that changed tours are optimized again.

Facts

+ Single routes, route sets or entire dispatching areas with free route planning, framework route planning or post optimization
+ Pickup & delivery, milkruns, open routes and round trips, master route planning with order matching
+ Planning 5,000+ routes in 1 hour
+ Customized routing adjustments

Your benefits

+ Optimized and efficient routes, resistant to disturbances
+ High acceptance by dispatchers and drivers due to exact mapping of logistical reality and continuous recording of driver knowledge
+ Fewer kilometers and lower emissions thanks to efficient route planning (customized adaptation)
+ Higher quality through exact arrival time prediction (ETA)

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