

GREENPLAN ROUTE PLANNING AND EXECUTION



**Up to 30%
cost savings**

thanks to fewer miles, fewer routes



**Higher quality and
punctual deliveries**

thanks to ex ante calculation with
predicted driving times

**Utmost adaptability
of route planning**

combining dispatcher intelligence and
the best algorithm

EPG® | Ehrhardt
Partner
Group

Smarter Connected Logistics™

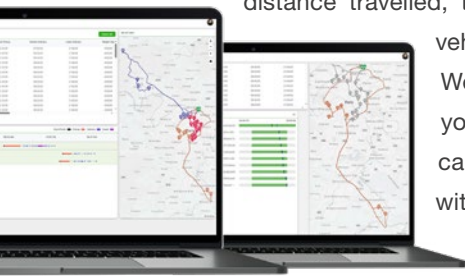
www.epg.com

BENEFITS OF GREENPLAN

What's the best way of **cutting transport costs**, especially at a time of rising energy prices? And how can you enhance route planning efficiency, while at the same time reducing distance travelled, the number of routes and vehicles, and CO₂ emissions?

We have the solution: take your transport management capabilities to the next level with our **unique and intelligent algorithm for**

automatic route optimization and planning. Greenplan delivers these benefits as one of the most powerful solutions in routing and scheduling. It can be easily connected to your existing TMS via REST APIs or you can use Greenplan as a full-fledged planning and execution tool. Greenplan enables you to automatically calculate your routes at the touch of a button, avoid unnecessary routes, and reap the benefits of **precise ETA calculations** that factor in traffic speeds at specific times of day.



GREENPLAN: FOUR TAILOR-MADE SOLUTIONS FOR YOUR SPECIFIC NEEDS

Greenplan offers four distinct models, each perfectly suited to take your route planning to the next level:

Greenplan Engine

Greenplan Engine may be the missing piece when it comes to optimizing your transport management system. Featuring our state-of-the-art route planning algorithm, it seamlessly connects to all common TMSs via REST APIs. This allows your dispatchers to create even more efficient routes, uncover hidden cost savings, and significantly enhance the quality of all your deliveries. **Engine** is the ideal tool if you have a TMS in place and want your dispatchers to continue using it while also benefiting from the best possible routes.

Greenplan Planning

Tailored planning for your specific use. **Greenplan Planning** provides a customized route planning solution that can be adjusted and optimized to meet your daily operational needs. It also enables tactical optimization of your monthly or quarterly master routes. Customization includes strategic consulting to assess the optimization potential of your long-term network setup, depot structure, or entire fleet. With our **Business Rule Engine**, you can establish a highly adaptable route planning setup, eliminating the need for the post-processing of routes and taking account of all your flexible optimization targets. Benefit from a unique and fully dynamic planning approach, or overlapping districts and time-of-day-dependent speed profiles.

Greenplan Planning Plus

Greenplan Planning Plus is the smart addition to tailor your framework tours to daily specific requirements. With **Planning Plus**, dispatchers can monitor the execution of framework tours and adjust tours as needed to current events (e.g., traffic jams).

Greenplan Execution

Greenplan Execution is Greenplan's comprehensive solution, enabling real-time management of your routes, stops, pickups, and other specific operational scenarios. With **Execution**, route planning becomes a stress-free process in your dispatchers' daily workflow. Start planning while accounting for traffic patterns, avoid missed time slots, and reduce the need for corrections to planned routes. Your dispatchers enjoy optimal security and control over pickup execution, can adjust routes in seconds, and ensure high quality in same-day deliveries. Benefit from Greenplan's user-friendly interface for seamless tour planning and keep your dispatchers happy.



FULL CUSTOMIZATION

PRECISE
ROUTE PLANNING

Greenplan combines the world's best algorithm with the intelligence and experience of your dispatchers, resulting in a fully customizable route planning setup "tailor-made" for your requirements.

The superiority of our solution has been backed up by official comparisons and awards.



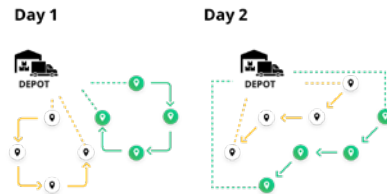
Winner of **amazon**
last mile challenge
(42% better than the MIT)

LOWER TRANSPORTATION COSTS

THANKS TO FULLY DYNAMIC
ROUTES & OVERLAPPING DISTRICTS

Greenplan can plan fully dynamic routes (without districts) as well as overlapping districts.

Our efficient algorithm calculates large instances quickly, while at the same time determining the optimal routes.



INCREASED ON-TIME DELIVERY

THANKS TO REAL-TIME TRAFFIC FLOWS

Greenplan calculates routes based on the traffic situation, taking account of factors such as the street, the day of the week or time of day in order to obtain the most realistic results.

This leads to realistic driving times and more precise ETAs.



MADE FOR DISPATCHERS

Successful route planning relies on the planning intelligence and experience of dispatchers, which can now be taken to the next level with our route planning algorithm. Greenplan offers highly adaptable route planning, resulting in a configurable tool tailored to the needs and requirements of your company. Instead of generating new routes that do not align with your criteria, our experts collaborate with your dispatchers to develop a customized route planning model in advance.

Our **Business Rule Engine** provides dispatchers with a manipulation layer to apply specific parameters and rules when optimizing routes, leading to **less stressful working days**. Routes no longer need to be constantly replanned at the start of the day, as dispatcher intelligence has already been taken into account. With the fully customized Greenplan routing setup, dispatchers finally gain the freedom they need in route planning to **enhance operations and save valuable resources**.

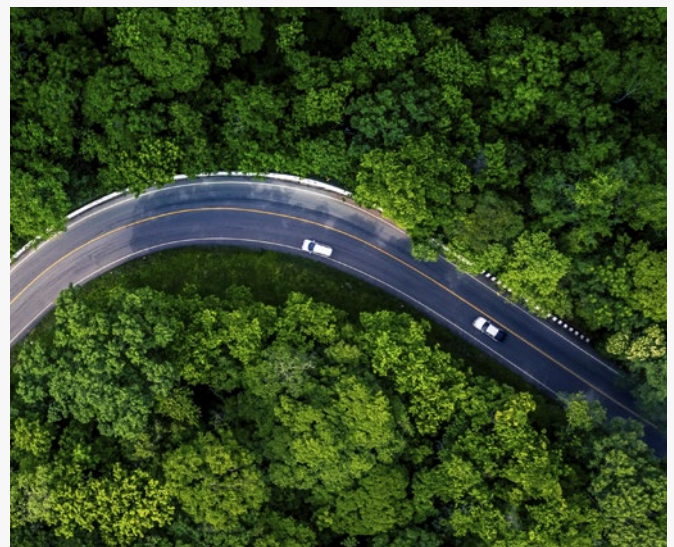
Greenplan Engine can be easily integrated into existing TMSs via REST APIs. This ensures that your dispatchers won't have to learn how to operate a new interface. They can continue working with your existing TMS, enhanced with Greenplan routes.

By choosing **Greenplan Planning**, you will benefit from the best and most accurate route plans, for example for daily operations or even quarterly blueprint routes. You can

eliminate the need for the post-processing of routes, address all your optimization targets, and meet all your specific requirements.

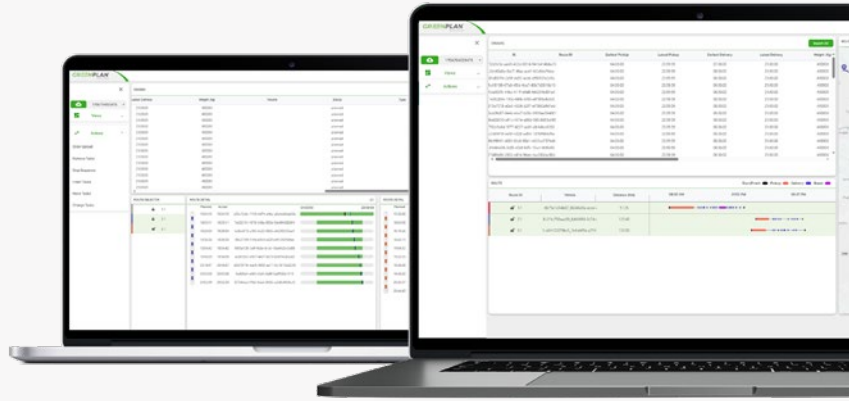
With **Greenplan Execution**, your team receives a new user-friendly interface that allows for intra-day adjustments in seconds, facilitates same-day deliveries, and provides optimum security and control over your deliveries and pickups.

Ultimately, this results in routes that offer cost efficiencies of up to 30%, ensure punctual deliveries with a rate of up to 98% of your communicated ETAs, while also reducing both routes and vehicles as well as CO₂ emissions. Greenplan allows you to benefit from optimized routes, improved operations, and happier dispatchers.



GLOBALLY UNIQUE VALUE PROPOSITION: OVERLAPPING DISTRICTS

Delivery areas can be optimized as a whole thanks to a unique, fully dynamic planning approach that is not dependent on geographical borders. Overlapping districts offer the optimum compromise between handling time (driver's knowledge) and journey time.



Fixed districts

Optimum handling times

Advantages: Drivers are familiar with all addresses

Disadvantages: Longer driving times, more vehicles on the road

Overlapping districts

Optimum compromise

Ideal combination of both approaches:

drivers still familiar with over 80% of addresses

overlapping districts allow for intelligent load distribution

Dynamic planning

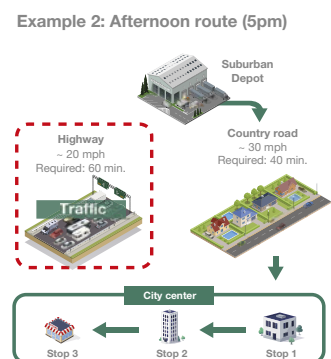
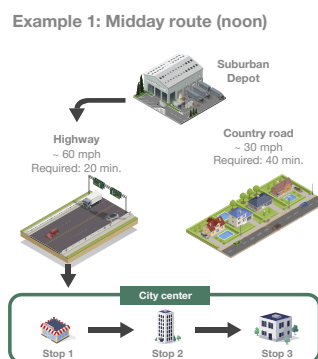
Optimum efficiency





Advantages: Most efficient routes (driving time)

Disadvantages: High percentage of new addresses for drivers, resulting in longer handling times

TIME-OF-DAY-DEPENDENT DRIVING TIMES

Planning meets reality: Greenplan takes time-of-day-dependent traffic flow speeds into account during planning. This guarantees optimal planning of stops and adherence to the specified time slots. Driving times can vary each day depending on the current traffic situation. The Greenplan algorithm makes its calculations using travel times that are dependent on the time of day. It uses realistic, historical data - right down to the level of specific roads and at 5-minute intervals, 288 times per day.



Courier, Express, Parcel & eCommerce	Road Freight & Carriers	Field Services	Grocery & Home Delivery
			
European Express Company: Nearly 30% reduction in km driven	Global Road Freight Company: 8% better than next competitor (European tender)	German Facility Management Company: Jobs increased from 3 to 7 per day/technician on average	European Retailer with up to 7.5% cost reduction based on scenario (8 countries)

START YOUR TRIAL NOW:

You will benefit from these savings:

30%

greater efficiency compared to other solutions

20%

reduction in CO₂ emissions

98%

punctuality rates for your agreed delivery times (ETA)

THE BEST ROUTES WITHIN FOUR WEEKS – GREENPLAN – ROUTE PLANNING & EXECUTION:

- ✓ Your dispatchers and our experts will work hand in hand to set up a customized model for optimized route calculation that takes your requirements into account.
- ✓ Having established a model enhanced by your dispatcher intelligence, Greenplan delivers cost-efficient, high-quality routes to ensure that time slots are met without any hiccups.
- ✓ At the end of the trial, you will be able to evaluate the performance (from the perspectives of dispatchers and management), receive an individual implementation roadmap as well as a business case calculation that takes into account ROI and cost efficiencies.

See for yourself:



“Start your Greenplan trial now!”

- 1 Scan the QR code
- 2 Fill out the contact form
- 3 We'll calculate your individual savings potential

INDUSTRY-LEADING AWARDS AND RECOGNITION



PostEurop Innovation Award 2020

for overlapping districts

2020



Amazon Last Mile Challenge 2021

42% better than second place (MIT); 220 participants from 22 countries

2021

EGONNECTIONS

selected as one of 7 scale-ups to make 500m online purchases more sustainable



2022



Best Product LogiMAT 2023

in the category "Software, Communication & IT"

2023

Gartner

Recognized in Gartner Vehicle Routing and Scheduling Report 2023

2023



Finalist Deutscher Logistik-Preis 2023

2023

EPG IN NUMBERS



★★★★★ **MORE THAN 1,600 CUSTOMERS**



1,000+ EMPLOYEES WITH VAST LOGISTICS KNOWLEDGE AND INDUSTRY EXPERTISE

OUR SOLUTIONS ARE AVAILABLE IN **50+ LANGUAGES**



LYDIA™ VOICE FASTEST GROWING VOICE SOLUTION IN THE WORLD AND #1 VOICE SOLUTION FOR ANDROID DEVICES

35+ YEARS LOGISTICS EXPERIENCE



600,000+ USERS WORKING DAILY WITH EPG SOLUTIONS

TOP 5 WAREHOUSE MANAGEMENT SYSTEMS WORLDWIDE



EPG – Smarter Connected Logistics

EPG is a leading international provider for a comprehensive Supply Chain Execution Suite (EPG ONE™) and employs 1,000 people at 23 locations around the world. The company group provides its more than 1,600 customers with WMS, WCS, WFM, TMS and voice solutions to optimize logistics processes – from manual to fully automated logistics environments. EPG solutions cover the entire supply chain: From warehouse and road to

ground and cargo handling solutions at airports. With the EPG AES™ Aviation Execution Suite, EPG offers an all-in-one solution for airport logistics and ground handling. Logistics consulting, cloud services, managed services and logistics training courses at the company's own academy round out the comprehensive list of solutions from EPG.