## Press release



## Greenplan – the best way: Logistics experts launch powerful algorithm for individual route optimization

- New solution for fully dynamic route planning and optimization helps lowering
   CO<sub>2</sub> emissions
- Data-driven approach based on historic traffic patterns and travel times
- Greenplan algorithm exceeds efficiency of existing planning tools and saves up to 20 per cent costs

**Bonn, June 25, 2020 –** Greenplan, a DHL financed start-up company, is launching a powerful algorithm for optimizing delivery routes and stop sequences in logistics. The algorithm leverages the full potential of smart routing, using all information and data available to optimize transport routes in an entire delivery area, while existing solutions are dealing with smaller sub-areas to cope with complexity. In doing this, Greenplan sets a new benchmark. It bolsters the industry's efficiency and sustainability efforts without making compromises on the quality of planning. The algorithm was developed by scientists from the University of Bonn in cooperation with DHL logistics experts. Greenplan supports customers with their road freight business and last-mile deliveries as well as field service providers with their service schedules.

"We at Greenplan want to help make the industry more efficient and sustainable. With our smart and powerful algorithm, we are tackling the complex task of efficient route planning by offering a precise and reliable solution that can be integrated into existing systems," explains Dr. Clemens Beckmann, CEO at Greenplan. "In contrast to nearly all tools on the market, Greenplan – for the first time – calculates routes according to historic traffic information available on street-level. This, in turn, enables our customers to save up to 20 per cent costs compared to standard route optimization solutions and to lower their carbon footprint accordingly, simply by reducing kilometers driven."

Customer needs are constantly changing: The growing e-commerce market fuels demand for same-day deliveries while the contract logistics market increasingly looks at just-in-time processing. The Greenplan algorithm is equipped for such cases and capable to digest not only the targeted addresses but also individual delivery time windows on shipment level. By considering time-of-day-dependent, street-specific travel times, Greenplan also finds the optimal starting time of delivery tours. These improved tours increase the predictability for customers and appear natural to drivers. The solution

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also supports contingency planning in case of incomplete data availability and considers system-

relevant variables such as different loading types or adherence to regulations. These features offer a

robust solution that is adaptable to a variety of issues or customized changes.

Greenplan empowers customers to drive their own green strategies by enabling CO<sub>2</sub> emission

reductions through shorter distances and fewer tours. Greenplan not only provides visibility on the

estimated carbon footprint based on planned delivery routes, it also considers emissions per vehicle

type to plan the most CO<sub>2</sub>-efficient routes. Moreover, the algorithm is capable of considering specific

parameters for electric vehicle fleets, like range limits per vehicle. Altogether, the smart algorithm

leads to decreased costs and lower CO<sub>2</sub> emissions for the same delivery work. This helps not only

logistics companies, but also supports field service providers who need to plan schedules of their

workforce.

Logistics is a highly fragmented industry that delivers a multitude of solutions for individual processes.

To realize the full potential of capacities and optimize resource management, Greenplan teamed up

with the Research Institute for Discrete Mathematics at the University of Bonn to engineer a new smart

algorithm capable of meeting customers' unique business needs, while still ensuring short computing

times.

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**About Greenplan** 

Greenplan is a DHL powered company that offers solutions for smart logistics in the B2B- and B2C-sector. Its algorithm for fully dynamic tour planning helps moving goods or people in an efficient and clean way. Greenplan leverages the full optimization potential by applying a complete optimization approach instead of handling smaller sub-instances with reduced complexity. It delivers value regarding cost efficiency, speed, reliability, flexibility and robustness. The service is available for customers globally.

Greenplan is part of Deutsche Post DHL Group. The Group generated revenues of more than 63 billion euros in 2019. With sustainable business practices and a commitment to society and the environment, the Group makes a positive contribution to the world. Deutsche Post DHL Group aims to achieve zero-emissions logistics by 2050.

On the Internet: www.greenplan.de

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