



## Functional overview OPHEO

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# 01

Smart Truck Tour Planning

## Smart Planning



### Full transparency with the digital Transport Control Center

OPHEO is the award-winning next generation transport management and dispatching software. OPHEO automates route planning and dispatching and creates an optimal workplace for the truck dispatcher thanks to a modern graphical dispatch cockpit and intuitive drag & drop operation.

At the same time, OPHEO enables digital networking with customers, drivers and service providers and provides permanent information about ongoing tours and potential problems. This makes OPHEO the digital Transport Control Center and the heart of dispatching.

### Digital scheduling Easier. Faster. More accurate.

The smart planning technology in OPHEO ensures a massive reduction of effort in scheduling. OPHEO works like an intelligent co-pilot that relieves the dispatcher of all calculations and checks, prevents errors and exploits optimization opportunities.



OPHEO automatically calculates and fully accounts for:



- » Loading and unloading times
- » Dates and opening hours
- » Driving times (truck routing)



- » Driving time breaks
- » Working and rest times
- » Remaining driving times



- » Sequence optimization
- » Single-order optimization
- » Calculation of journeys



- » Driver qualifications
- » Vehicle equipment
- » Cost and revenue ratios

### Advantages

- + Full transparency and control
- + Higher vehicle utilization
- + Massive reduction in effort

# 02

(Fully) Automatic Route Optimization  
and Scheduling

## Optimizer & Road Engine



### AI-based automatic Route Planning – at the touch of a button

With the help of AI-based algorithms, OPHEO optimizers take over the complete scheduling of your orders to the

available fleet resources. We distinguish between three optimizer variants:



#### Optimizer

Depot transports, drop shipments  
Partial and full loads



#### concrete Optimizer

Mixer truck dispatch



#### classicOptimizer

Tipper trucks and other vehicles

#### All Optimizers offer:

- » Minimized journey times, kilometers, CO2 emissions and delays
- » Mapping of user preferences via adjustable parameters

- » Error-free planning due to automatic consideration of the OPHEO rules and regulations
- » Short calculation times  
(up to 60,000 tour plans per minute)

### OPHEO Road Engine for Autonomous Dispatching

#### The Telematik Award 2020-winning AI component

#### OPHEO Road Engine goes even further:

Automatically evaluate on the basis of new orders and

incoming telematics data, whether changes to the route plan are necessary. Any necessary rescheduling is carried out automatically.

#### Optimizer

#### Advantages

#### Road Engine

- + Tour plans at the touch of a button
- + High time savings due to short calculation times
- + Improvement of planning quality and high vehicle utilization

- + Automatic rescheduling - from the system
- + Dispatcher only intervenes in special cases
- + Massive time savings, more focus on customer communication and service

# 03

Precise Forecasts for the Course of the Tour

## Predictive Planning



### Already know now, what happens in 5 hours

For the first time, OPHEO combines route planning and telematics in such an intelligent way that, with the help of innovative forecasting algorithms, it is possible to predict the expected course of the routes in the next few hours.

In particular, arrival times (ETA) at loading and unloading points are calculated in advance and continuously updated. Dispatchers are informed about impending problems at an early stage and are given a valuable window of time to react.



#### Imminent Delay

The system already recognises at 13:00 that a Deadline Violation is imminent at 19:15!



#### Threat of exceeding Driving Time



### Forecasting in Real Time – for the Best Possible Foresight

Tour duration and ETA data are permanently adjusted based on the following incoming telematics data:

- » Live traffic information
- » Compliance with the prescribed Driving Time and rest breaks
- » Compliance with working hours
- » Real-time tacho data direct from the vehicle
- » Dependencies through cross docking
- » Dependencies due to trailer exchange
- » Forecasting over several stops of a tour
- » Forecasting over several tours of a vehicle

#### Advantages

- + Dispatchers always know what will happen in the next few hours
- + Higher customer satisfaction through early information
- + Higher planning quality through early rescheduling

# 04

Digital Service for Customers and Employees

## ETA Information



### ETA Information is critical for Customers and Employees



#### Advice Note

Using notifications, end customers are informed proactively and at the same time fully automatically about the status and ETA of a shipment. For this purpose, you define in OPHEO in advance for which customers and at which trigger time an advice dispatch should take place. Triggering points can be, for example, the completed loading, the reaching of a predefined remaining journey time or the entry into a certain radius around the delivery address. The notification can be sent by e-mail or SMS.



#### Shipment Tracking

With the web-based shipment tracking, end customers can proactively and independently view and track the current status of their expected shipments. All customers need is a PC, smartphone or tablet. From there, a simple web link provides access to all relevant shipment information, which comes directly from OPHEO. This way, end customers are always informed about the consignment status, regardless of whether they are on the construction site, warehouse, in the office or at home.



#### Arrival Monitor

With the arrival monitor, OPHEO users can use the added value of ETA data to optimize their own operational processes. Loading processes of own and third-party trucks can be made much more transparent and plannable in the warehouse and during order picking. The positive consequences are shorter loading times and a minimization of waiting times.

### Advantages

#### Advice Note

- + Improvement of customer service
- + Lower standing and waiting times at the customer

#### Shipment Tracking

- + Lower standing and waiting times at the customer
- + Improvement of customer service

#### Arrival Monitor

- + Optimization of the operating processes in own warehouse
- + Optimization of staging area
- + Well informed employees, in and out of the head office

# 05

Connected Digital Tacho and Subcontractors

## Tacho Live & Driver Link

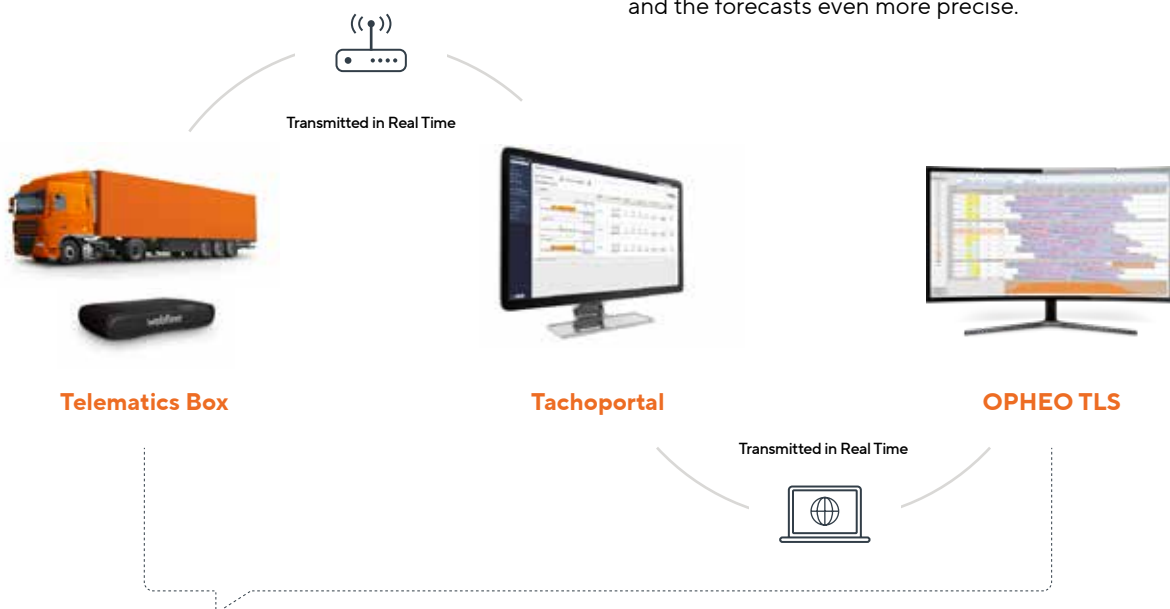


### All driving times at a glance – with Live Speedometer Data

Tacho Live takes over the digital data from the common tacho download systems in real time. In OPHEO, the current remaining driving and working times are taken into account in route planning and predictive planning and automatically updated on an ongoing basis.

### Driver Link – Smart Connection of Subcontractors

The DriverLink web app is ideal for digitally connecting sporadically deployed subcontractors. In this way, customers expand the functional scope of OPHEO beyond their own and fixed vehicle fleet. With Driver Link, essential tour information, such as the simple retransmission of tour status, delivery data or photos, is transmitted by the driver with a device-independent web solution. This makes the data basis for all calculations in OPHEO even more comprehensive and the forecasts even more precise.



#### Tacho Live

#### Advantages

#### Driver Link

- + Optimal utilization of time resources through higher precision in planning
- + Better customer service through more reliable ETA
- + Risk minimization of transgressions and penalties

- + Full transparency across ALL tours
- + Reduction of effort due to less third-party driver communication

# 06

Telematics App for the Driver

## OPHEO MOBILE



Our **Telematik Award 2020** award-winning app

OPHEO MOBILE offers many added-value functionalities for Drivers and Dispatchers.

### How it works: OPHEO MOBILE

At the beginning of a tour, the dispatcher sends the tours planned in OPHEO with all the detailed information, such as stops, loads, special features during delivery, etc., plus the electronic delivery note to the OPHEO MOBILE app on the driver's operating device.

The stream of information then flows back from the vehicle to the dispatcher in real time: GPS position, status messages, messages and photos. Changes to an electronic delivery note that occur during the ongoing tour can be entered by the driver directly in the OPHEO MOBILE app.

In addition, the driver is also able to record loading equipment movements and obtain customer signatures on the mobile device. As the recorded data is reported back to the OPHEO server immediately after the tour is completed, the driver can still use the OPHEO MOBILE App server immediately after completion of the tour; the customer can be invoiced for the services on the same day.

Another added value is provided by the integrated truck navigation. Without having to make any further manual entries, drivers can start navigation to their next destination at the push of a button. The address data is automatically transmitted from the OPHEO MOBILE app to the navigation system. We also include current live traffic data in the route guidance.

### Advantages

- + Digital connection of the driver
- + Paperless processes
- + Full transparency for the dispatcher
- + Integrated navigation at the touch of a button for the driver



## The digital Transport Control Center zur Automatisierung der Lkw-Disposition



**Arrange a non-binding Consultation Appointment:**

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