



Visual Route Planning in Real-Time

Tour Planning and Execution with platbricks®

Initial Situation and Challenge

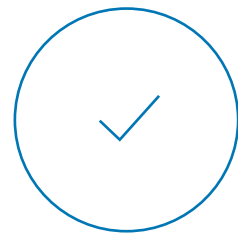
One reason for high transport costs, for example, is the non-consolidation of outbound or inbound deliveries. Manual route planning without software support is complex, frequently inaccurate, not optimized, and time-consuming. If these logistical processes are primarily carried out without IT support, the susceptibility to errors increases, leading to higher costs or even delivery bottlenecks. In addition, the actual progress of the tour and its current processing status is often not transparent to the dispatchers as soon as the driver leaves the yard. Another major challenge in tour planning is to consider possible restrictions (customer requirements and available drivers and vehicles, etc.) and potential optimization criteria (time, route, etc.).

Tour Planning and Execution with platbricks®

With platbricks®, we have developed a cloud-based software solution with which processes can be planned, controlled, digitally executed, and intelligently evaluated internally in logistics and production and across companies along the supply chain. A unique feature of platbricks® is its modular structure. This enables a high degree of standardization in customer projects, fast implementation times, and the flexibility to implement customer-specific requirements at a reasonable price.

platbricks® not only supports route planning but with the platbricks® Driver App, a native application for mobile devices, digital order processing, including GPS tracking, is made possible. Drivers process the tour assigned to them in each case in a system-supported manner and can document each delivery or pickup. With the help of real-time status feedback and GPS tracking, the dispatcher can monitor the processing progress of the tours.

Benefits

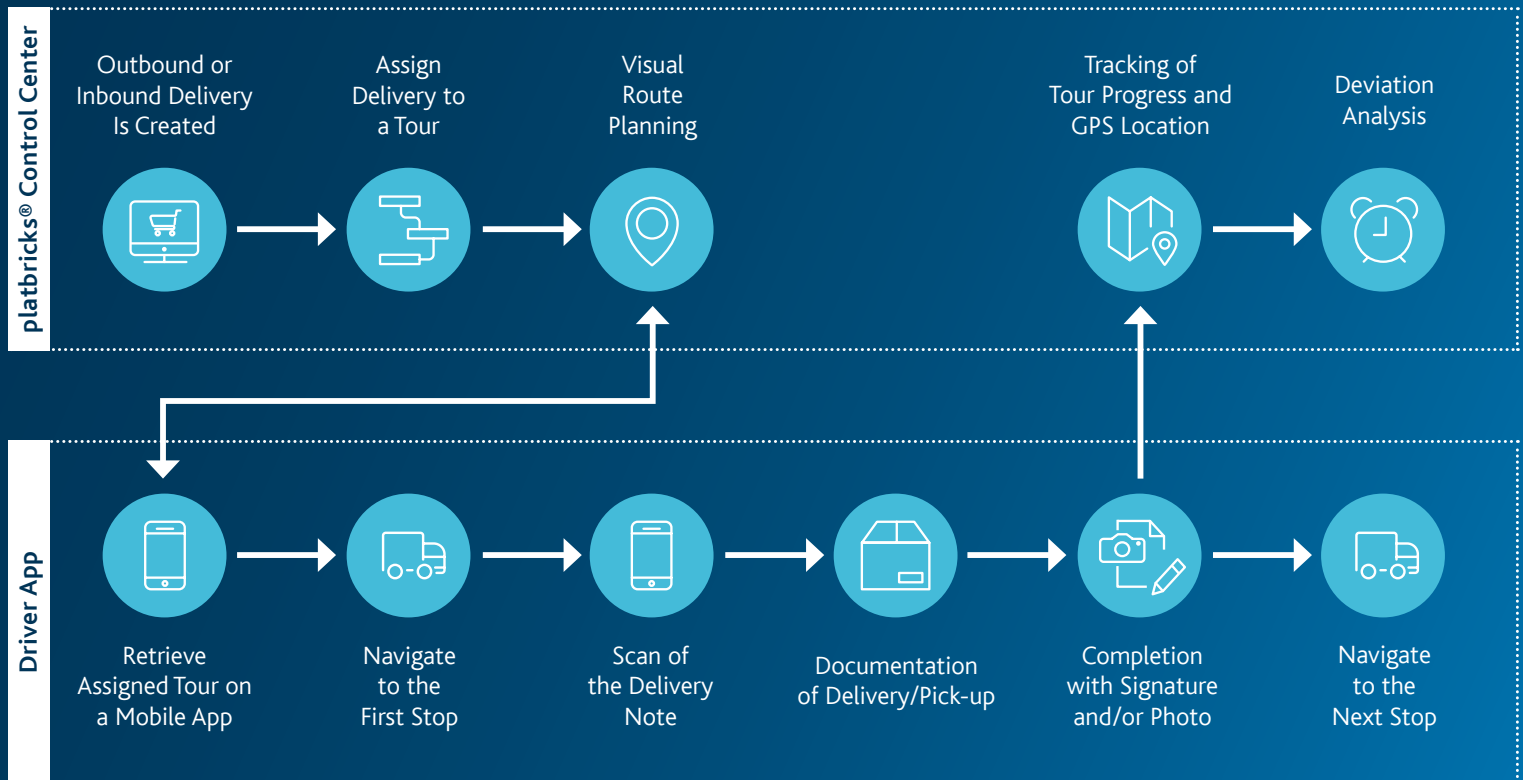


- **Reduction of transport costs** by consolidating deliveries into one tour and planning the route to be taken
- **Automatic consideration** of predefined restrictions, such as pick-up or delivery times, and thus adherence to delivery dates
- **Permanent transparency of the tour progress** with the integration of the driver app
- **Integration of geofences** is possible
- **Cause analysis of inefficiencies** through documentation of deviations and non-deliveries or pick-ups





Tour Planning and Execution with platbricks®



Function Overview

- 1. Outbound or inbound delivery is created:** The delivery is made in the Warehouse Management System.
- 2. Assignment of the delivery to a tour:** the delivery is added to a tour with graphical support.
- 3. Visual planning of the route:** with the help of calculating distances and travel times, the tour can be planned in a specific time window according to predefined restrictions.
- 4. Retrieval of the tour via the app:** the driver retrieves the delivery via the app.
- 5. Navigation to the first stop:** the driver is guided to the location system-supported with the help of the rolling maps in the app.
- 6. Scan the delivery bill:** the barcode is scanned via the app for verification.
- 7. Documentation of delivery/ collection & recording of loading equipment:** e.g., photo documentation of the condition of the goods on delivery/collection or the storage location, recording of the exchanged loading equipment.
- 8. Conclusion with signature and/or photo:** the driver can upload a signature or a picture of the drop-off location via the app, which can also be viewed in the platbricks® control center.
- 9. Direct to the next stop:** the driver is directed to the next stop once the unloading or loading process is completed.
- 10. Tracking of the tour progress:** as soon as the driver starts the tour, the tour's current location and processing status can be tracked.
- 11. Analysis of deviations:** platbricks® Analytics enables the analysis of recorded variations to determine the cause.

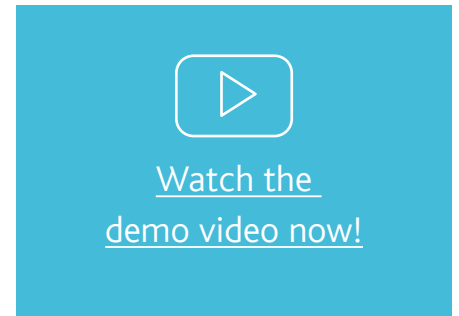


Advantages of the Driver App

- **Intuitive app-supported processing** of tours (process-guided)
- **Secure documentation** of unloading or loading by photo and digital capture of signature as well as deviations
- **Continuous feedback** of GPS data
- **Easy booking of loading equipment** via the app
- **Navigation** via connected map app for the driver
- **Automation of status messages** through geofences is possible

Why Route Planning with platbricks®?

- **Connection to the platbricks® Warehouse Management System** is possible
- **Interfaces to external ERP/WMS/TMS are possible**; for example, standard interfaces to SAP TM
- **platbricks® Driver App** can be used in combination with platbricks® Route Planning as well as with other external TMSs
- **Short training times** due to intuitive operating concept
- **The any-device approach allows the** use of different mobile devices (Driver App)
- **The solution is** available in a variety of languages „out of the box“ **and can easily be extended to additional languages**



You have questions, need information or a contact?
Get in touch with us.

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Global IT specialist Arvato Systems supports major companies in Digital Transformation. About 3,100 staff in over 25 locations stand for in-depth technology expertise, industry knowledge, and focus on customer requirements. Working as a team, we develop innovative IT solutions, transition our clients into the Cloud, integrate digital processes, and take on IT systems operation and support. As a part of the Bertelsmann-owned Arvato network, we have the unique capability to work across the entire value chain. Through our strong strategic partner network with global top players such as AWS, Google, Microsoft, and SAP, we continuously strengthen our know-how and leverage the most advanced technology.

