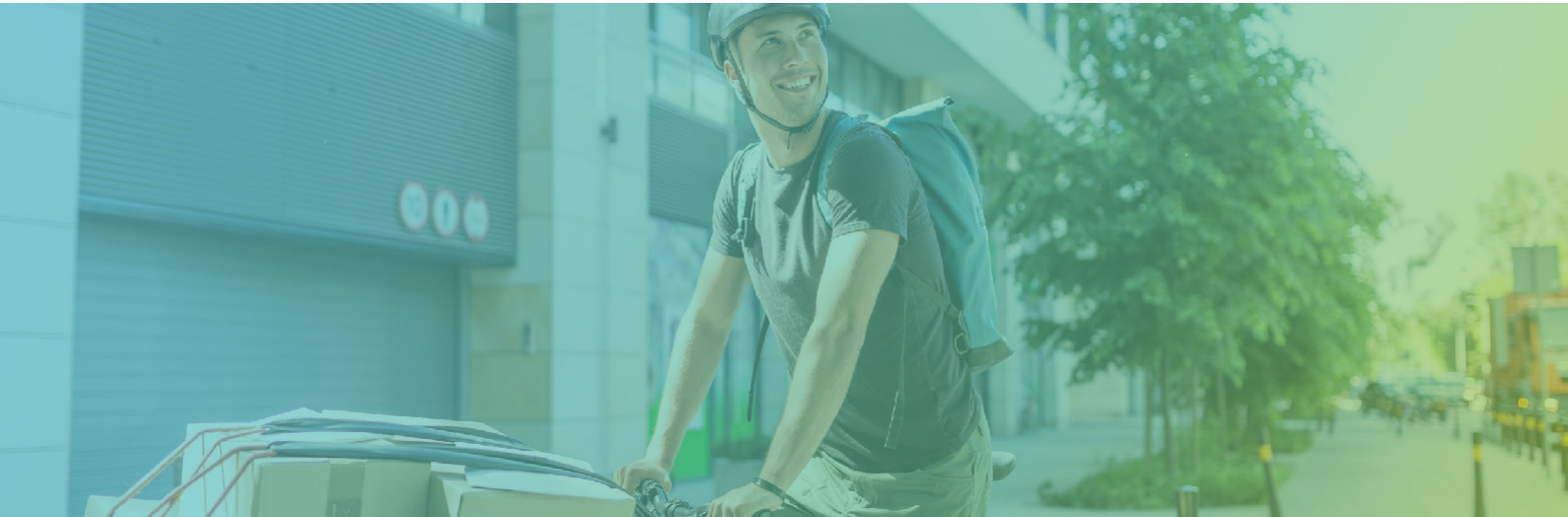




Urban Delivery: Micro-Depots for the “Last Mile”

Micro-Depot Management and Store Logistics with platbricks®

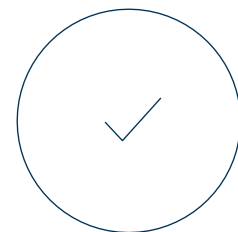
Current Situation and Challenge

Ongoing megatrends are shaping the processes of daily goods supply—especially in our cities. Approximately 77 percent of the German population already lives in cities or metropolitan areas. Due to the rise of online retail—which is expected to grow even further in the coming years in light of the COVID-19 pandemic and its effects—shipment volumes are increasing, particularly in these areas.

This development is resulting in a greater demand for delivery vehicles. However, these vehicles are proving to be an ever-increasing burden on urban transportation infrastructure and contribute significantly to increased noise and emissions. When combined with growing customer expectations regarding the customization of delivery times and locations in the B2C sector, it becomes clear that urban delivery concepts must meet a wide range of requirements. The challenge is to find the most innovative solutions possible to balance economic goals with the preservation of quality of life in urban areas.

Micro-depots have therefore become a promising core element of smart urban logistics. They serve as additional transshipment points for goods within their respective delivery areas and are located either in central locations or on the outskirts of the city. From these locations, goods are picked up and delivered on the “last mile” via cargo bikes or electric vehicles. This keeps conventional delivery vehicles out of city centers and enables faster and more flexible delivery right to the front door.

Advantages



- Low investment costs thanks to the plug-and-play setup of micro-depots with platbricks®
- Transparency and control throughout the supply chain through real-time access to inventory data and shipment tracking
- High degree of customization through flexible control of delivery time windows, delivery locations, and delivery options by the customer
- Automated processes with shorter turnaround times, flexible inventory management for any number of micro-depots, and optimized route planning
- Execution of all operational processes using a wide variety of mobile devices
- Easy integration of platbricks® with your ERP and WMS systems via standardized APIs

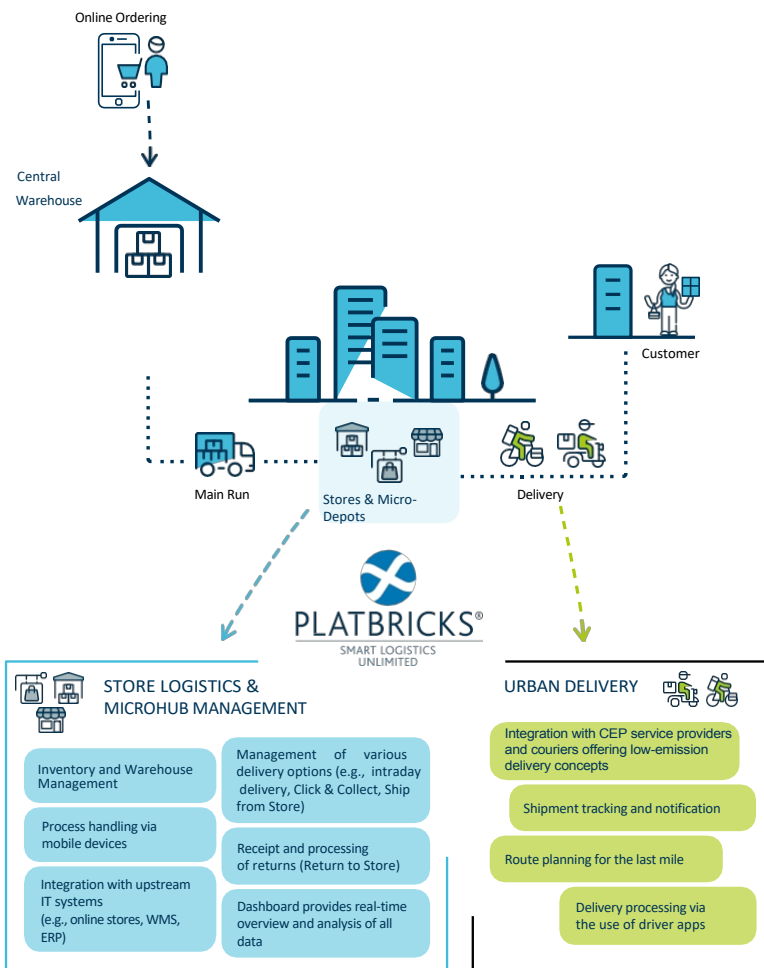


The effective use of such micro-depots in the supply chain is linked to the key challenge for companies of finding suitable locations for them. Against the backdrop of urbanization, warehouse space is scarce, leading to experiments with the mixed-use of public spaces, the establishment of pickup points in stores, or the use of mobile containers as depots. Furthermore, complications can arise when multiple courier service providers share individual micro-depots.

Companies should therefore embrace digitalization to efficiently plan and manage both the fulfillment processes in their micro-depots and the exchange of order and master data with upstream IT systems. Furthermore, courier services and route planning tools must be integrated with these systems, and customers must be offered a variety of delivery options.

Store Logistics & Urban Delivery with platbricks®

Our Microsoft Azure-based cloud logistics platform, platbricks®, offers a simple and efficient solution for setting up micro-depots. From goods receipt and inventory management to doorstep delivery—you have access to all processes in the urban supply chain via a central control center and mobile devices.



- Access to a wide range of courier services via a central interface
- Recipients receive real-time updates via tiramizoo's Live Tracking Page, including SMS and email notifications

Feature Overview

- Through the warehouse management system, you can monitor and successfully execute all processes
- Inventory management allows you to fully control and manage your inventory (inventory counts and replenishment processes)
- The Basic Dashboard provides a real-time overview of current key metrics (inventory overview, process costs, order monitor, lead times, carbon footprint, Track & Trace)
- Our solution's "any-device" approach allows you to use any mobile device (Android, iOS, Windows) as part of your logistics processes, e.g., when processing incoming goods
- Integration with upstream IT systems, e.g., the central warehouse's WMS via standard APIs, as well as integration with couriers that use vehicles with reduced emissions
- Route planning and status tracking
- Return acceptance and processing



About platbricks®

With platbricks®, we at Arvato Systems have developed a cloud-based software solution that enables processes to be planned, controlled, digitally executed, and intelligently evaluated—both internally within a company (e.g., in logistics and production) and across companies along the supply chain. A key feature of platbricks® is its modular design. This enables us to achieve a high degree of standardization in customer projects, fast implementation times, and the flexibility to implement customer-specific requirements cost-effectively. For more information, visit our website: www.platbricks.de



You have questions, need information or a contact?
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Arvato Systems is an international IT specialist that supports major companies in Digital Transformation. We stand for strong industry knowledge, in-depth technology expertise and a clear 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 part of Bertelsmann, we are built on the solid foundations of a German global corporation. At the same time, we rely on our strong strategic partner network with top international players such as AWS, Google, Microsoft and SAP. We make the digital world easier, more efficient and more secure and our customers more successful. We Empower Digital Leaders.
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