



# What role can the cargo bike play in sustainable urban mobility?

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## CARGO BIKE

**Cargo bike** is a human powered vehicle constructed for transporting load or people. Cargo bike with an electric drive is known as **e-cargo bike**. There are several different designs of cargo bikes. It can be constructed as a bicycle, tricycle or quadracycle. The offer of various cargo bike types on the market is currently relatively wide with good possibilities for the production of custom made bikes. The load capacity of the cargo bike is up to 300 kg. The width ranges from approx. 60 cm for two-wheel cargo bike to approx. 100 cm for multi-wheel cargo bike.

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## CITY LOGISTIC SYSTEM

The city logistics system can be characterized as a purposefully arranged set of all elements (technical means, infrastructure and human resources) involved in the implementation of logistics chains within city logistics.

*City Logistics is the process for optimising the logistics and transport activities in urban areas considering the traffic environment, its congestion, safety and energy savings.*

*The above should be achieved within the framework of a market economy and a city policy for sustainability.*

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## SUSTAINABLE URBAN LOGISTIC PLAN

The development & implementation of a Sustainable Urban Logistics Plan aims to contribute to the Sustainable Urban Mobility Plans (SUMPs) main purpose for a sustainable mobility system by defining priorities, measures and implementations of new operations for improving the effectiveness of city logistics in the entire functional urban area.

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## LAST MILE DELIVERY BY CARGO BIKE

**Cargo bicycles** have been used by courier, delivery and postal services in Europe in recent years. It is an environmentally friendly means of transport suitable for last mile delivery in city logistics. The flexibility in the use of different types of roads and cycle paths can be an advantage, thanks to which a bicycle can be more time-efficient than a car in certain cases in urban traffic. However, usability is limited by local conditions (e.g. infrastructure quality, geomorphological conditions, weather).

## MICRO-HUB

*Microhubs, sometimes called 'micro-distribution' facilities or 'micro-depots,' are last-mile consolidation and distribution nodes located in or next to urban neighborhoods.*

*By optimizing load distribution within a delivery zone, microhubs aim to reduce total vehicle trips in urban areas*

It is often a container, where the cargo bike couriers pick up the packages for delivery.

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