

# Logistics TOMORROW



## Logistics tomorrow

Economic growth combined with a rapid increase in urban populations are the main drivers of growing transport movements. Direct effects of these urbanization processes are traffic jams, overcrowded areas and ecological as well as economic damage.

Cities have to manage these challenges alongside restrictions in infrastructure capacities, ambitious targets in noise and pollution reduction and all this accompanied by budget restrictions.

Hence, there is an increasing need for more efficient and effective transport infrastructure networks.

**AMBERG LOGLAY** strives for innovative transport networks that deliver more dynamic, economic goods movements and a higher quality of life in cities of tomorrow. We think in multiple dimensions and especially underground space can play a key role within the transport network of growing cities.

We integrate our partners of all relevant fields – engineering, logistics, operation and finance. Our in-depth know-how, overview and expertise in urban transport systems is an important project enabler. Logistics of tomorrow is flexible and modular –

**We Engineer Logistics.**

### We are the specialists for

- **Modular hub solution** for tailor made Port and Rail **logistics and infrastructure**
- **In-bound as well as Outbound Transportation** from and into **Ports** or dense areas
- **Smart integration of underground space for cargo** - into existing transport networks above ground
- **City logistics solutions** for the transport of goods to the consolidating area and creating innovative technological infrastructure solutions.



## Our Challenges - Your Opportunities

<b>Ecological</b>	We can help dense areas to improve their supply chain, shipments and deliveries, thus reducing congestion, traffic jams and polluting emissions.
<b>Transport Policy</b>	Freight services can be operated underground, fully automated and electrically driven. This approach can be implemented in metropolitan areas surrounding ports with enormous positive effects.
<b>Technology</b>	Automation in goods movements frees up efficiency and provides more accountability to customers, citizens and enables innovative technologies.
<b>Electric, Water, Transport</b>	Out of the infrastructure sectors covered – water, electricity, transportation, safety and security – transportation clearly emerged as the top challenge for mega-cities. Our approach focuses on all aspects of transportation infrastructure and is able to integrate several sectors in one solution.
<b>Fiscal &amp; economic aspects</b>	A transport network designed together with industry partners from source to destination including sustainable operations opens up new possibilities for financial models.
<b>Spatial planning</b>	Increasing traffic congestion and growing land values in urban areas make underground infrastructure increasingly attractive for cargo networks and underground storage.

## What we deliver

Our approach secures a solution based on the logistics requirements. This leads to maximum acceptance and efficiency for end user: projects and investments into new infrastructure can be accelerated and operated profitably.

Success factors for a world-class logistics infrastructure:

<b>EVALUATION</b>	The network of the transport/logistics infrastructure, volume, operation and routing have to be evaluated in-depth.
<b>SOLUTIONS</b>	New infrastructure will be placed into it's surrounding area – seamless integration into the industries supply chain and technology is key.
<b>PROFITABILITY</b>	Business model focuses on long-term profitability; a stable cash flow is the corner stone of any transport infrastructure.
<b>SUSTAINABILITY</b>	Orientation towards life cycle solutions will be actively implemented. Innovative freight solutions help to reduce congestion and distribution bottle necks.

## Project reference

### Urban Underground Logistics Solution

Within the project “Cargo sous terrain” the flow of goods of all relevant industries was analysed in detail.

The emerging picture allowed the government of the region to better understand cargo flow.

This led to unique and high reliability quality assessment of the network design and the interfaces of the above ground infrastructure.

### City Logistics Zurich

Cities, big and small, are confronted with increasing transport challenges. Their quality as a thriving and desirable place to live in depends heavily on a reliable and worthwhile transport system.

We designed a smart network, including the underlying business model and designed a profitable and sustainable operational mode for the City of Zurich.

### Connected Ports Hamburg

The port of Hamburg, one of the world's ten largest container ports, is the most important hub for cargo traffic between East Asia and Northern / Eastern Europe.

In order to be able to handle the expected and forecasted growth in container throughput, Hamburg has to adapt and extend its existing handling facilities. Underground hinterland connections & warehouses increase efficiency dramatically.

**We understand the needs of customers, logistics players, operators, public authorities as well as investors.**

**We understand the constraints of ecological and environmental protection as well as the concerns of impacted populations.**

**We actively manage to balance global logistics competitiveness with environmental factors and the quality of life ambitions in dense areas.**

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