Pipeline based freight transportation

The 5th transportation alternative for the transport of goods in congested urban areas

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Pipeline based freight transportation

Logistic Concept
Pipeline based freight transportation

Albert Einstein:

„Problems can never be solved with the same mentality that caused them.“
Pipeline based freight transportation

Premises for new solutions

- Fast technical and legal realisation without violation of civil interests (preferably within an election period)
- Simple implementation in traditional traffic systems and logistics concept (compatibility)
- Operational efficiency
- Consideration of public interests, e.g. via public-private-partnership
Pipeline based freight transportation

Tube Dimensions
Europalette - reference base and interface

- Height of load 1.25 m
- Size: 0.80 m x 1.20 m
- Pan-European standardised carrier
Pipeline based freight transportation

Tube Dimensions

[Diagram showing a pipeline with dimensions 7.0m and 2.0m]
Pipeline based freight transportation

CargoCap
The 5th transport alternative to
- STREET
- RAILWAY
- WATER
- AIR
Pipeline based freight transportation

Integration into existing urban infrastructure
Pipeline based freight transportation

Direct transport connections

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Direct transport connections

- **Airplane**
  - From Airport to Railway Station
  - From Railway Station to Door / Gate
  - From Door / Gate to Conveyer Belt

- **Railway**
  - From Airport to Railway Station
  - From Railway Station to Door / Gate
  - From Door / Gate to Conveyer Belt

- **Truck**
  - From Airport to Railway Station
  - From Railway Station to Door / Gate
  - From Door / Gate to Conveyer Belt

- **CargoCap**
  - From Airport to Railway Station
  - From Railway Station to Door / Gate
  - From Door / Gate to Conveyer Belt
Pipeline based freight transportation
Pipeline based freight transportation

Advantages

Pros & Cons

- independent
- efficient
- flexible
- exact in time
- weather-independent

- immediately realisable
- expandable
- environmentally compatible
- saves space
- Innovative

First Mover Advantage
Pipeline based freight transportation

Competitive advantages compared to other regions

- Better access to industrial sites
- Logistic connection of decentralized sites.
- Better usage of areas
- Improved environment and health via: reduction of traffic jams, accidents, noise, pollution, CO$_2$ emissions
- Increased regional competitiveness and thereby more jobs
Pipeline based freight transportation

Logistic Concept

Regional freight transportation
- Truck
- CargoCap

Long-distance freight transportation
- Truck
- Railway