

# The HyperPort Cargo Solution

Disrupting cargo transport with Hyperloop

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Session: BP 16- The next generation solutions

Date: 10/15/2021 9:00 – 10:30

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# 1

## HyperPort Cargo Solution project

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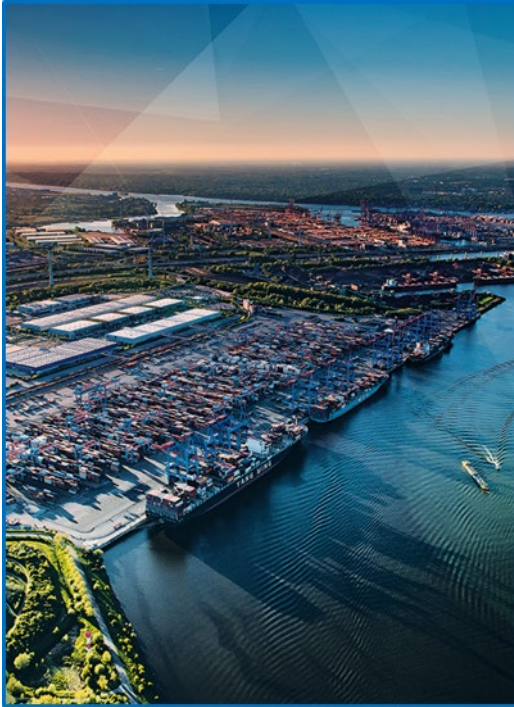
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# HyperPort Cargo Solution project

Who we are



- Founded in Dec 2018 as a joint venture project between HHLA Hamburger Hafen und Logistik AG and Hyperloop Transportation Technologies
- Leverage of hyperloop technology and leading port automation to expand port capacity while reducing carbon emissions and local congestion



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# 2

## HyperPort – How it works

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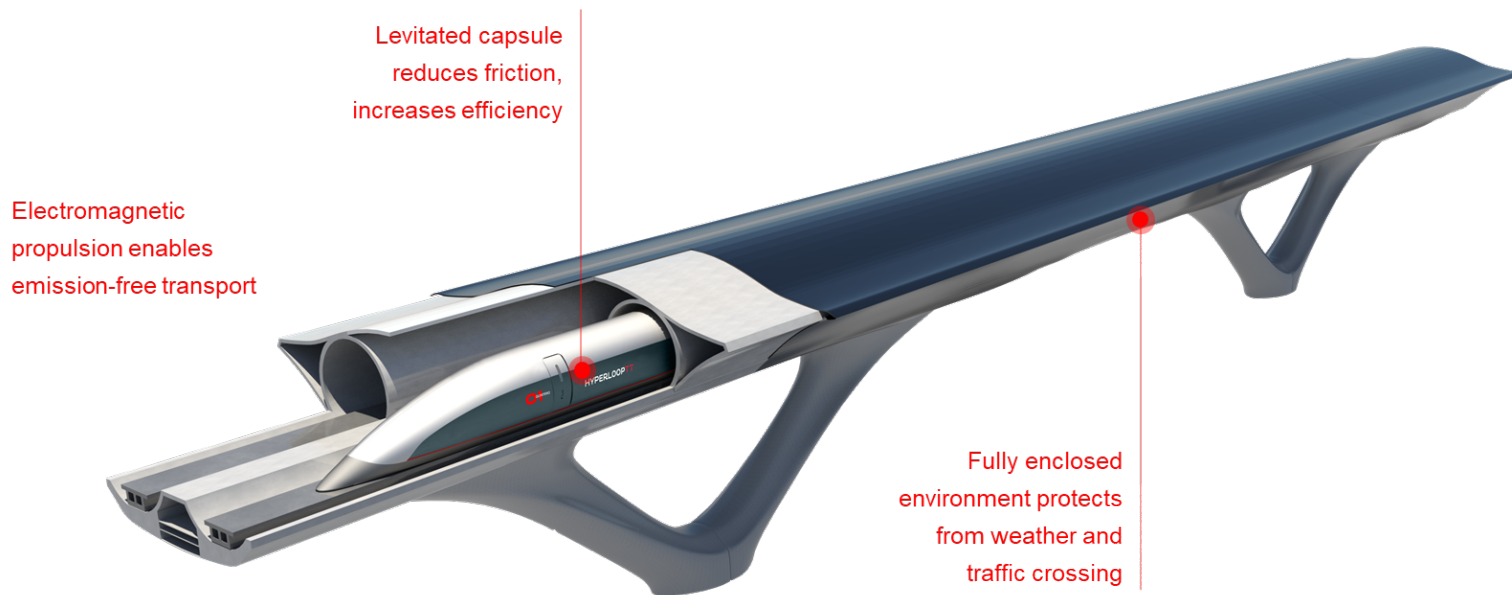
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# HyperPort - How it works

Hyperloop technology



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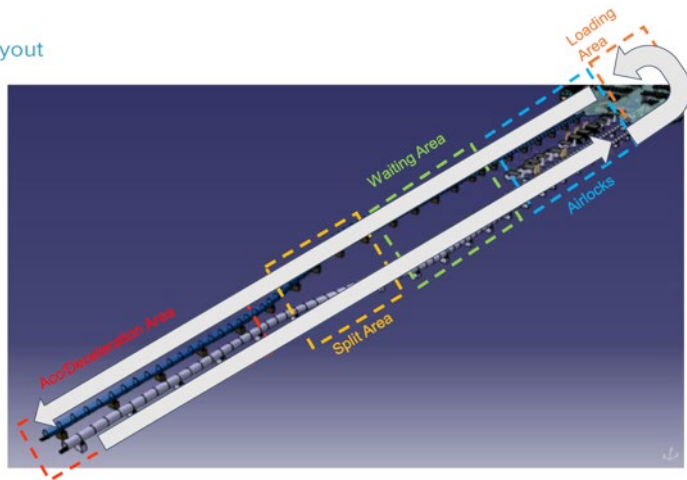
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# HyperPort - How it works

## HyperPort Concept Study

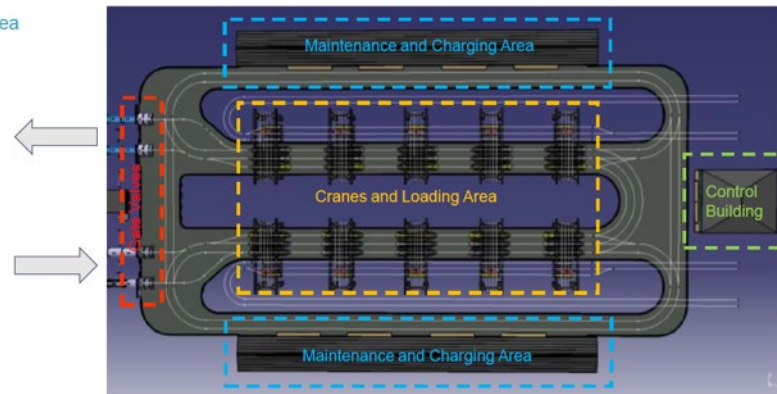
Hyperport Layout

Overview



Hyperport Layout

Loading Area



Top View of the Hyperport Platform

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# 3

## HyperPort contribution to future supply chain logistics

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# HyperPort contribution to future supply chain logistics

Flexible and reliable transport at unmatched speeds

- Cargo capsules with a capacity of 2 TEU, top-loaded by cranes in fixed positions for precise movements and high performance
- Frictionless system by levitating capsules in a low-pressure environment with speed of 600 mph (first prototype)
- Tube environment increases safety and reliability, eliminating risks of human error
- Fully autonomous integrated system controlled through transport management platforms



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# HyperPort contribution to future supply chain logistics

Seamless integration into existing terminal environments



- Fully automated and scalable HyperPort design allows optimal integration into existing terminals
- Mitigating congestion problems by connecting ports with off-dock depots and distribution centers at very high speed
- Expanding port capacities and increase operational efficiency

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# HyperPort contribution to future supply chain logistics

Eco-friendly transportation with less energy consumption

- HyperPort can use renewable energy and will drastically reduce carbon and noise emissions in the ports and hinterland transport systems
- Less congestion problems lead to less energy consumption in the whole logistics chain
- Reducing the need for port storage by efficiently transporting freight in-land can also allow spaces to be revitalized as urban areas



Speed



Reliability



Flexibility



Capacity



Capacity



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# 4

## HyperPort contribution to future mobility

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# HyperPort contribution to future mobility

Efficient transport until the last mile



- The HyperPort Cargo Solution complements and easily integrates into existing transportation networks, incl. road and rail
- Connecting with autonomous first and last-mile solutions, hyperloop will drastically reduce carbon emissions caused by ground transportation
- Full integration with up-to-date technology information will allow for real-time tracking and live prioritizations
- The better allocation of resources will help to create an efficient system that connects and expands economies

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