

New Hyperloop Testing Facilities: Cargo, Economics, Logistics and Certification

Developing Large Scale Hyperloop Research Infrastructures in European Research Program

Supervisors IHT: Prof. Dr. rer. nat. Walter Neu, Prof. Dr.-Ing. Thomas Schüning
Assistant Supervisors: Lukas Eschment

Modules: Wahlpflichtfach (Emden), Bachelor /Master thesis
Major/Field: Economics, Logistics, Technical Mgmt.
Term: Summer term 2022
Start: March / April 2022
Submission Deadline: September 2022
Contact: lukas.eschment@hs-emden-leer.de
Execution: Time and place by arrangement, group work possible, English language

Short description:

Hyperloop is a guided transport system in which so-called pods are designed to transport people and goods at the speed of sound in a partially evacuated tube. Within the framework of the “Hyperloop Development Program” a European research initiative, individual technologies, economics and use cases of this system are being investigated.

This project deals with the need for new testing facilities with a focus on cargo of this new mode of transport. The aim of this project is compiling standards, certification processes and Hyperloop Cargo applications to propose new hyperloop cargo testing requirements.

Goal:

- Research testing needs for Hyperloop cargo transportation
 - Input from Standardization Committee CEN/CENELEC JTC20 Hyperloop Systems
 - Hyperloop Feasibility Studies and promoters
- Compile existing standards and testing needs for cargo transport systems
 - Outline Procedures for certification of new Cargo transportation technologies
- Propose categories for cargo testing requirements
 - Acceleration, packaging, handling, different goods...
 - Compare categories for Hyperloop and existing cargo transportation modes

Please reach out and visit www.iht-emden.de for more information. We are happy to supply you with more detailed information of the research program



Image: Hardt Hyperloop