

## Drafting of New Large-Scale Hyperloop Research Infrastructure: Implementation of Testing Needs for Large-Scale Cargo Research Infrastructure

Developing Large Scale Hyperloop Research Infrastructures in European Research Program

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Modules: Wahlpflichtfach (Emden), Bachelor /Master thesis  
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Execution: Time and place by arrangement, group work possible, English language

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### 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 drafting of new research infrastructure with a focus on implementation of new testing needs and designing technical requirements regarding cargo for this new mode of transport. The aim of this project is compiling testing needs from previous work in the program such as studies and questionnaires to develop technical requirements for the testing facility which can be used to engineer a large-scale Hyperloop Cargo research infrastructure.

### Goal:

- Detailing the implementation of testing needs
  - Researching testing needs from previous work, studies and stakeholders
  - Propose testing of different technologies (e.g. comparison of different systems)
- Drafting of technical requirements for a large-scale Hyperloop Cargo Research Infrastructure
  - Including functional-, mechanical-, and operational requirements ...
  - Monitoring and operational procedures

Please reach out and visit [www.iht-emden.de](http://www.iht-emden.de) for more information. We are happy to supply you with more detailed information of the research program.



Image: Hardt Hyperloop