

Drafting of New Large-Scale Hyperloop Research Infrastructure: Structure of Large-Scale Technical Research Infrastructure for Cargo Transportation

Developing Large Scale Hyperloop Research Infrastructures in European Research Program

Supervisors IHT:	Prof. Dr. rer. nat. Walter Neu, Prof. Dr.-Ing. Thomas Schüning
Supervisor UOL:	Supervisor by arrangement
Assistant Supervisors:	Lukas Eschment
Modules:	Professionalization (UOL), Bachelor /Master thesis
Major/Field:	Economics, Engineering Physics
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 drafting of new research infrastructure with a focus on cargo for this new mode of transport. The aim of this project is compiling the general structure especially organization structure and setup of a testing facility through questionnaires and interviews with researchers, industry experts and policy makers.

Goal:

- Research structure and setup of Large-Scale Technical Research Infrastructures
- Compose stakeholder analysis and certification process of new transport system
- Prepare questionnaire for researchers, industry experts and policy makers
 - Conduct interviews and compile general requirements
- Propose setup and organizational structure for new Large-Scale Hyperloop Research Infrastructure

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

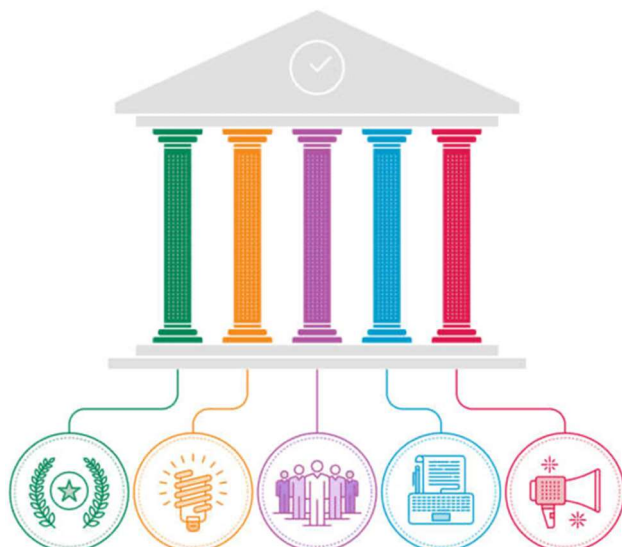


Image: ilyast via istockphoto