

## Global market analysis of vacuum transportation technology

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### Short Description

Emissions from the transport sector accounted for over 24% of global CO<sub>2</sub> emissions in 2016 and continue to rise rapidly, primarily due to the rapid growth of air travel. For this reason, there is an urgent need for more sustainable transport infrastructures to reduce emissions and meet global climate targets. Vacuum transport (VT) can serve as a sustainable transportation alternative. Vacuum transport systems move passengers and/or cargo above or below ground through low-pressure tubes, achieving greater efficiency through reduced friction and aerodynamic drag (also known as Hyperloop). This opens up the potential for VT to provide high-speed transportation with reduced energy consumption.

The objective of this thesis is to gain insight into the global attractiveness and dynamics of vacuum transportation technologies. This will be accomplished through an examination of the industry and a comprehensive analysis of the global environmental factors affecting these technologies. The aim is to identify the strengths, weaknesses, opportunities, and threats associated with this new transportation technology. The outcomes of this research endeavor will contribute to the development of effective business strategies.

Type	Master or bachelor thesis
Partner	Home university and EuroTube Foundation
Start date	TBD
End date (planned)	TBD
Internal supervisor	TBD
External supervisor	Damla Karapinar, damla.karapinar@eurotube.org

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### Work packages

- Literature Review
- In-depth Industry Analysis
  - Identify the key players in the vacuum transportation industry worldwide
  - Understand their strategies, operations, and market share
  - Analyze the trends, innovations, and challenges in the industry
- Global Environmental Analysis
  - Analyze the global trends affecting the vacuum transportation industry
  - Understand the impact of economic, social, political, and technological factors on the industry
- SWOT Analysis
  - Identify the strengths and weaknesses of vacuum transportation technologies
  - Identify the opportunities and threats for vacuum transportation technologies worldwide
- Defining Business Strategies
  - Suggest business strategies for companies in the vacuum transportation industry based on your findings
  - Provide strategic recommendations for the company to improve its competitive position
- Conclusion and Recommendations

### Requirements

- High motivation and interest in the topic
- Able to work independently and be creative
- Methodological and goal-oriented working behavior
- Knowledge about vacuum transport technologies is beneficial

**Application:** Please email your CV and transcript to [damla.karapinar@eurotube.org](mailto:damla.karapinar@eurotube.org)