

## Financial forecast of a vacuum transportation route in Europe

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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 propose a vacuum transportation route in Europe and assess its financial viability in both the short term and long term. Accurate estimation and prediction of a business's future financial performance are crucial prior to investment. Therefore, organizations operating in the vacuum transportation industry must meticulously consider all aspects when selecting new routes that promise significant financial returns. By conducting financial forecasting, the research outcomes of this thesis aim to identify new opportunities and routes that are attractive to both organizations and investors, facilitating informed decision-making in the industry.

Type	Master or bachelor thesis
Partner	Home university and EuroTube Foundation
Start date	TBD
End date (planned)	TBD
Internal supervisor	TBD
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### Work packages

- Literature Review
- Route Proposal
  - Based on prior research, propose a vacuum transportation route in Europe
  - Highlight the features and strategic value of this route
- Financial Forecasting
  - Develop a model to forecast the short-term and long-term financial performance of the proposed route
  - Use this model to estimate revenues, costs, and profits associated with the proposed route
- Risk Assessment
  - Identify potential risks and uncertainties that could affect the financial performance of the proposed route
  - Incorporate these risks into your financial forecast
- Opportunity Identification
  - Based on your financial forecast and risk assessment, identify new opportunities or routes that could be financially attractive to organizations and investors
  - Present these opportunities in a clear and convincing manner
- 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)