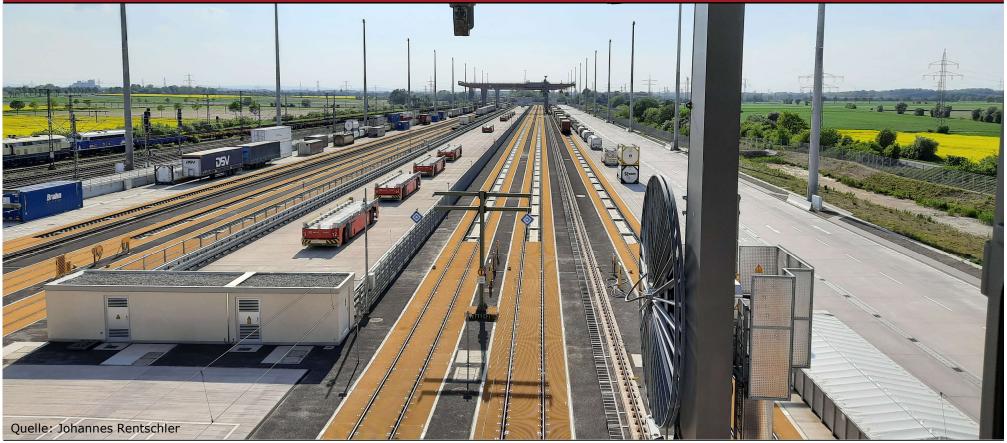
Innovation in freight transport – What does the freight transport of the future look like?



TECHNISCHE UNIVERSITÄT DARMSTADT

Seminar Summer Semester 2024



Department of Law and Economics | Chair of Management and Logistics | Prof. Dr. Ralf Elbert | 1

EU plans for green, smart and affordable mobility

10 key areas for action

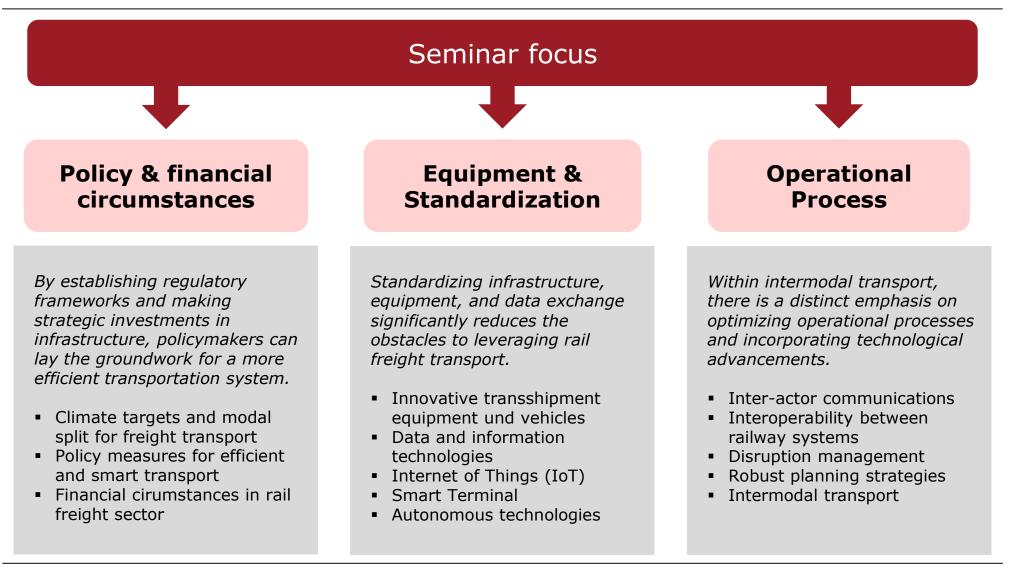
- Sustainable mobility An irreversible shift to zero-emission mobility
 - Boosting the uptake of zero-emission vehicles, vessels and aeroplanes, renewable & low-carbon fuels and related infrastructure
 - Creating zero-emission airports and ports
 - Making interurban and urban mobility healthier and more sustainable
 - Greening freight transport
 - Pricing carbon and providing better incentives for users
- Smart mobility Achieving seamless, safe and efficient connectivity
 - Making connected and automated multimodal mobility a reality
 - Boosting innovation and the use of data and artificial intelligence (AI) for smart mobility
- Resilient mobility A more resilient single European transport area: for inclusive connectivity
 - Reinforcing the single market
 - Making mobility fair and just for all
 - Step up transport safety and security across all modes



Source: European Commission (2021)



Innovation in freight transport – What does the freight transport of the future look like?



TECHNISCHE

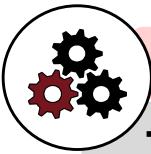
UNIVERSITÄT DARMSTADT

This seminar focuses on the literature-based analysis of issues in transformation of transport



Objective

- Analysis of the state of research on innovative concepts or technologies in freight transport
- Compilation of an overview regarding current fields of application and research projects
- Discussion of future trends



Methodical approach

- Conducting a systematic literature research on various topics
- Practical research / market analysis on current applications of these technologies
- Use of simulation software if interested/required

Important Dates



24.04.2024	Kickoff - Meeting
13:00 - 14:30	Presentation and assignment of topics
06.05.2024 09:00 - 17:00	Excursion Contargo Frankfurt-Höchst + Fraport
15.05.2024	Interim presentation/question session
13:00 - 17:00	Discussion of the work status
21.06.2024	Submission of the term papers
Until 23:59 (via E-Mail)	
03.07.2024	Final presentation I
14:00 - 17:00	Group presentation, Q&A session and discussion
05.07.2024	Final presentation II
09:00 - 12:00	Group presentation, Q&A session and discussion

Department of Law and Economics | Chair of Management and Logistics | Prof. Dr. Ralf Elbert | 6

Grading of the seminar

Group performance

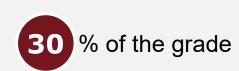
- Term papers (30-40 pages)
- Presentation materials

Individual performance

- Final presentation (20 minutes per group)
- Moderation of the following discussion (20 minutes)
- Participation in the discussions

Mandatory events

- Only one group member is allowed to be absent from each session
- In case of non-participation an excuse is necessary
- Each seminar participant should present content at least at one of the appointments





% of the grade

% of the grade

Organizational Information





	Organizational information
Participants	Bachelor and Master students
Group size	3-4 students
Supervision	Prof. Dr. Ralf Elbert Chair of Management and Logistics
Contact persons	Hongjun Wu wu@log.tu-darmstadt.de
	Aylin Altun altun@log.tu-darmstadt.de