Urban Logistics Project in Hanover

Cooperation between the local government, business and science

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Agenda

- 1 Global Challenges
- 2 Partners and Cooperation
- 3 Analysis of Urban Commercial Transport
- 4 Alternative / Innovative Logistic Concepts
- 5 Practical Application of New Concepts
- 6 Summary

Global Challenges



Air Quality







"Livable Cities"



Understanding o Sustainability



Urbanisation

Unique Project Initiative "Urban Logistics Hanover"

Vision

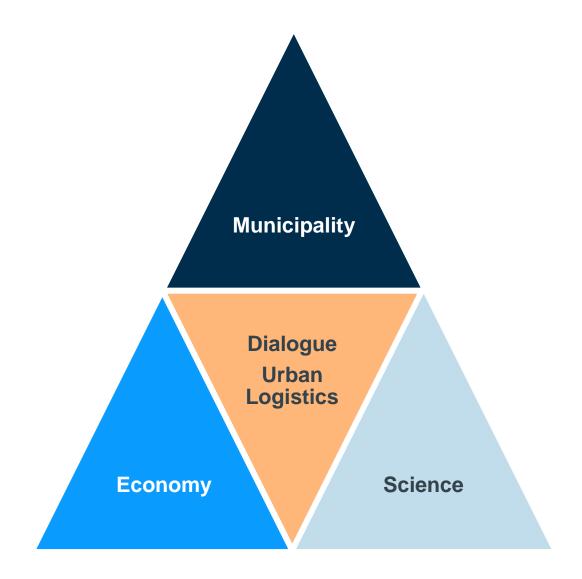
Future urban logistic activities are oriented towards the city residents' demands within a livable city. The urban logistics' future in a climate-neutral Hanover is characterized by quiet, emission-free and safe transport solutions as well as an innovative infrastructure and city surroundings.

Objectives

- Establishment of a competence region for urban logistics in Hanover
- Design of an integrated roadmap to achieve the EU's goal of essentially CO₂-free city logistics in major urban centers by 2030



Idea and Composition of the Project Team



 Strategies, concepts, projects Master plan Mobility 2025 Air quality plan und Noise action plan Master plan 100% for Climate Protection Urban development concept "My Hanover 2030" 	Landeshauptstadt Hannover
 Commercial transport Vehicle concepts Business models Customer group analysis Experience Digitalisation 	Commercial Vehicles Cenercity Deutsche Post DHL Group
 Research topics Vehicle concepts Logistics Traffic engineering Urban planning 	Leibniz Universität Hannover NEEE HOCHSCHULE HANNOVER UNIVERSITY OF APPLIED SCIENCES AND ARTS

Establish a Competence Region for Urban Logistics

Analysis of Urban Commercial Transport

- Composition
- Interdependencies
- Acceptance research

Alternative/Innovative Logistic Concepts

- Development & Simulation
- >>>> Testing & Evaluation in a pilot area within Hanover

Practical Application of new Concepts

- Increase commercial electromobility
- Impact assessment
- Identification of branch specific requirements



Multi-Stakeholder

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Analysis of Urban Commercial Transport

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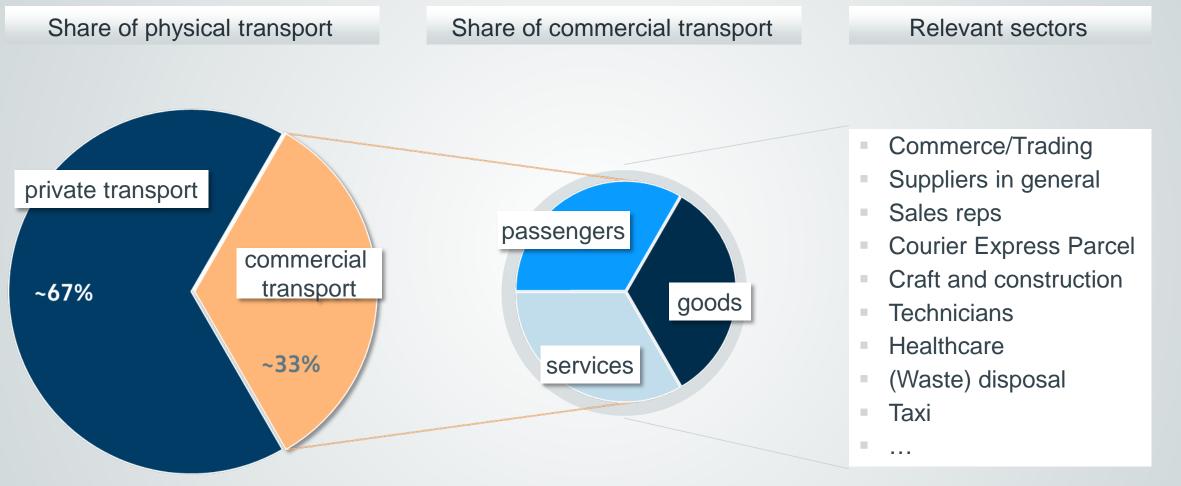




Multi-Stakeholder

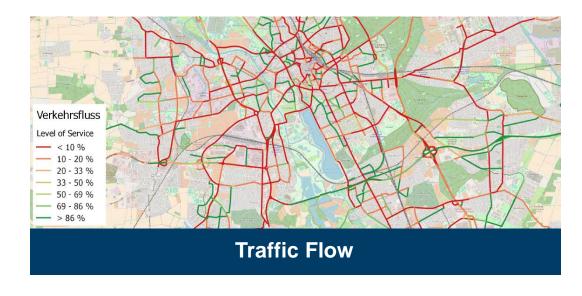
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Analysis of Urban Commercial Transport

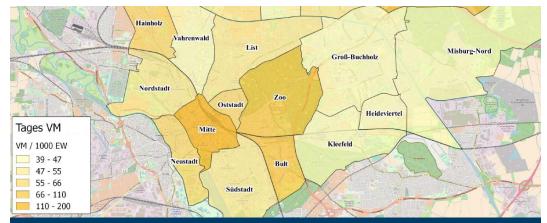


Analysis of Urban Commercial Transport









Average Number of Parcels

Alternative/Innovative Logistic Concepts

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Alternative / Innovative Logistic Concepts

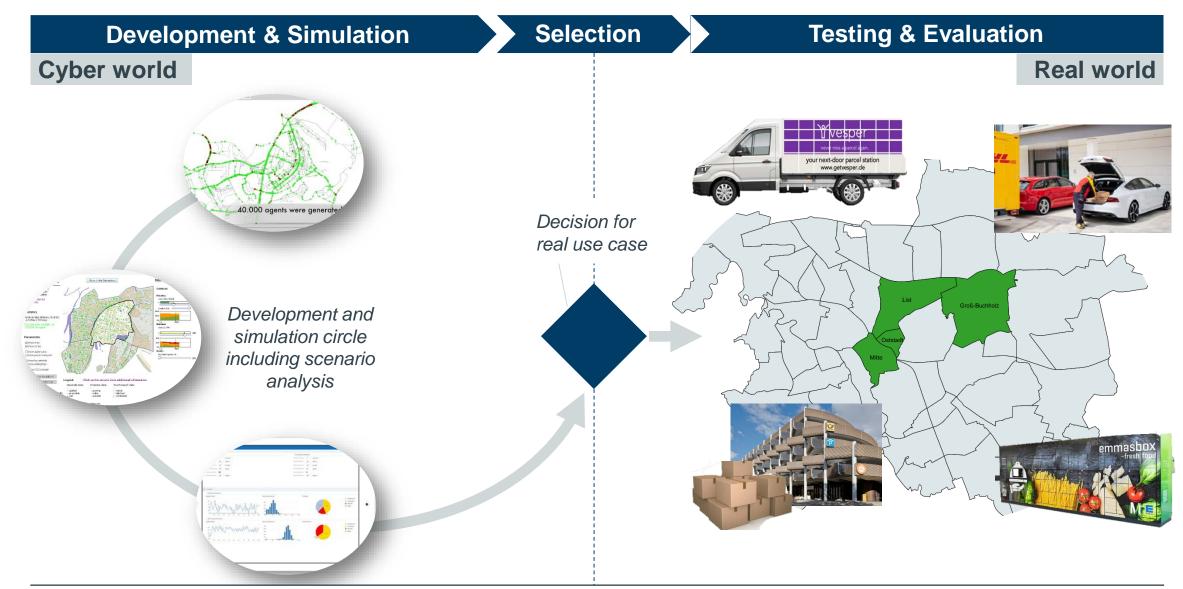
Options to identify innovative concepts

Creathon as an innovative example

best practices



Alternative / Innovative Logistic Concepts



Practical Application of new Concepts

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Multi-Stakeholder

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Practical Application of New Concepts

Identification of Branch Specific Requirements



Online Company Survey:

- Topic: mobility behaviour of different sectors
- 40 questions in 6 categories:
 - Current vehicle fleet
 - Operational characteristics
 - Trip characteristics
 - Attitude towards e-mobility

• ...



Insights:

- Most of the company vehicles are parked at depots overnight
- Top 3 criteria at route planning:
 - Customer sequencing
 - Time windows
 - Vehicle capacity
- Cargo bicycles are considered as useful complement for fleets

Practical Application of New Concepts

Impact Assessment



Impact assessment of new concepts may include multiple objectives that can vary according to the stakeholder's specific perspective



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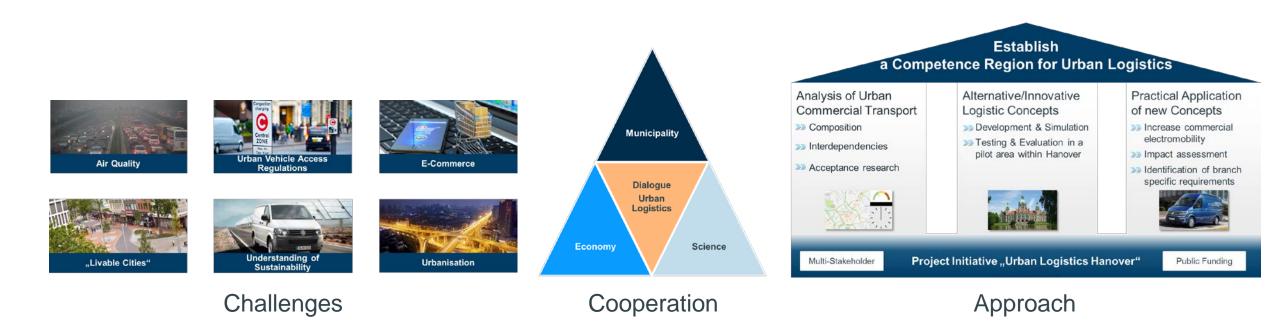




Multi-Stakeholder

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Summary



Satisfy residents' demands within a livable city

www.urbane-logistik.de

Thank you for your attention!



Rüdiger Prang Project Head Urban Logistics Volkswagen Nutzfahrzeuge

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