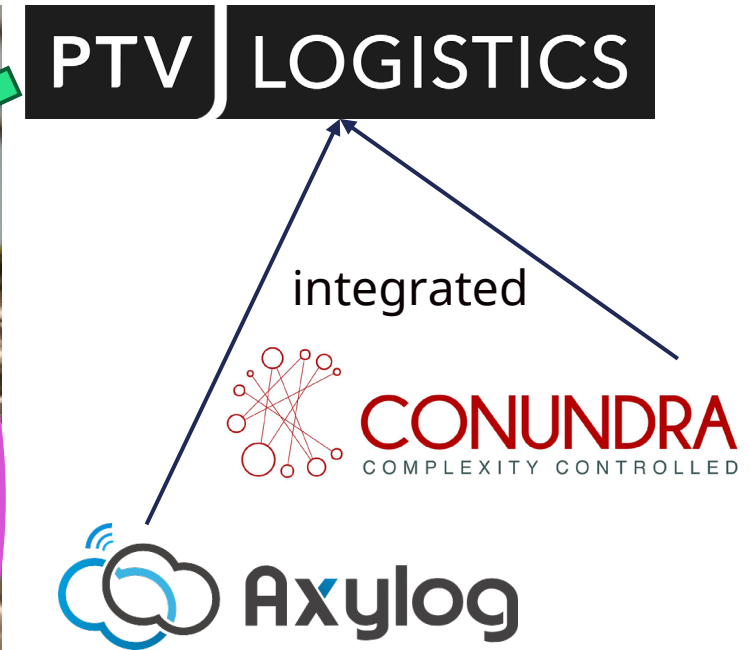
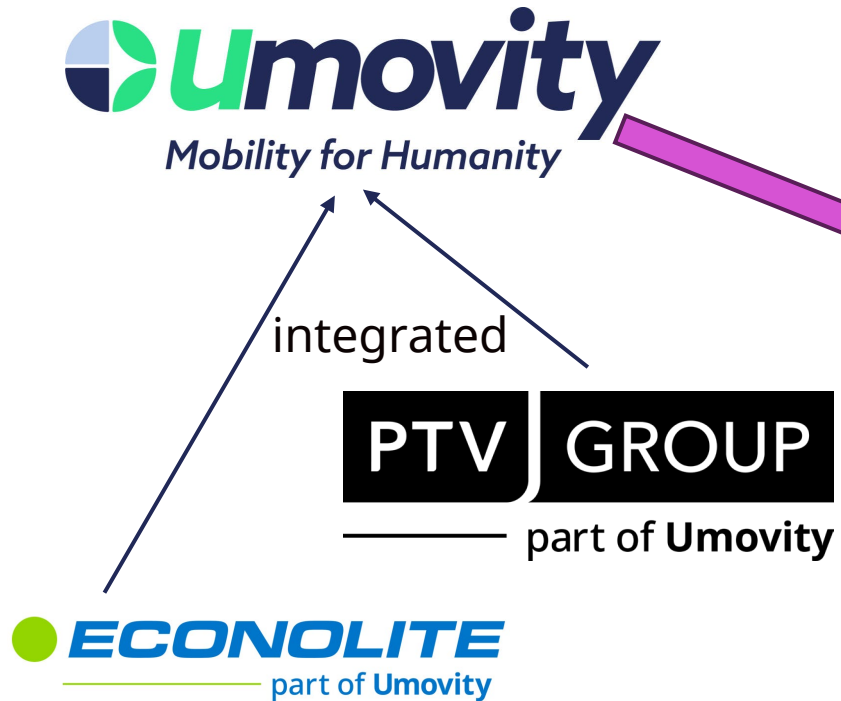


# PTV and urban logistics

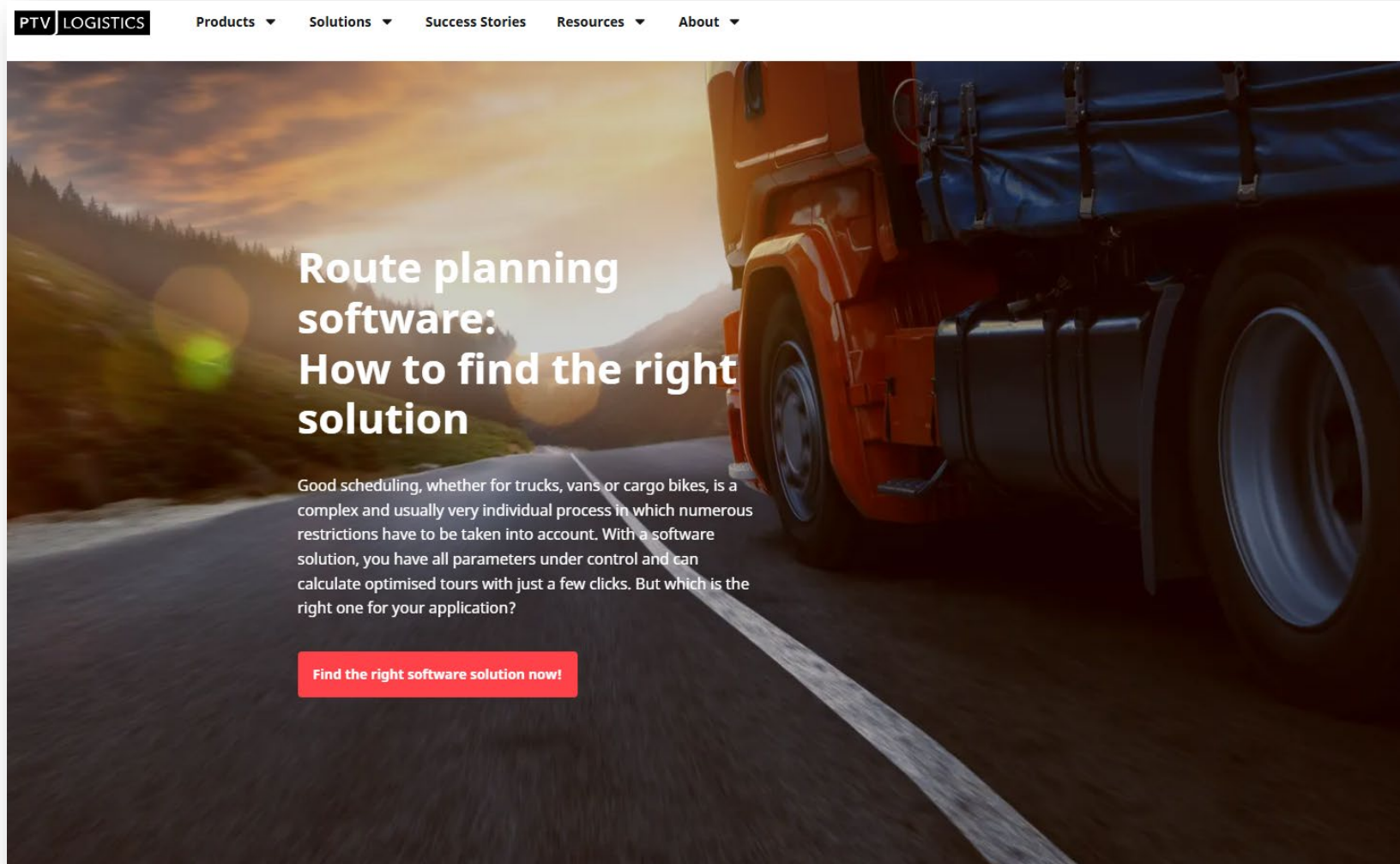
11 ITF Transport Statistics Meeting on 15-16 April 2025

Dr.-Ing. Matthias Pfriem

# PTV: The Group Structure (since 2023)



# PTV Logistics: Focus on Truck/Fleet Operation

The image shows the hero section of the PTV Logistics website. It features a background image of a red truck driving on a road towards a sunset. The navigation bar at the top includes the PTV LOGISTICS logo and links for Products, Solutions, Success Stories, Resources, and About. The main heading reads 'Route planning software: How to find the right solution'. Below this is a paragraph explaining the complexity of scheduling and the benefits of software. A red button at the bottom says 'Find the right software solution now!'.

## SOLUTIONS BY USE CASE

Route Optimisation

Truck Route Planning

EV Truck Route Planning

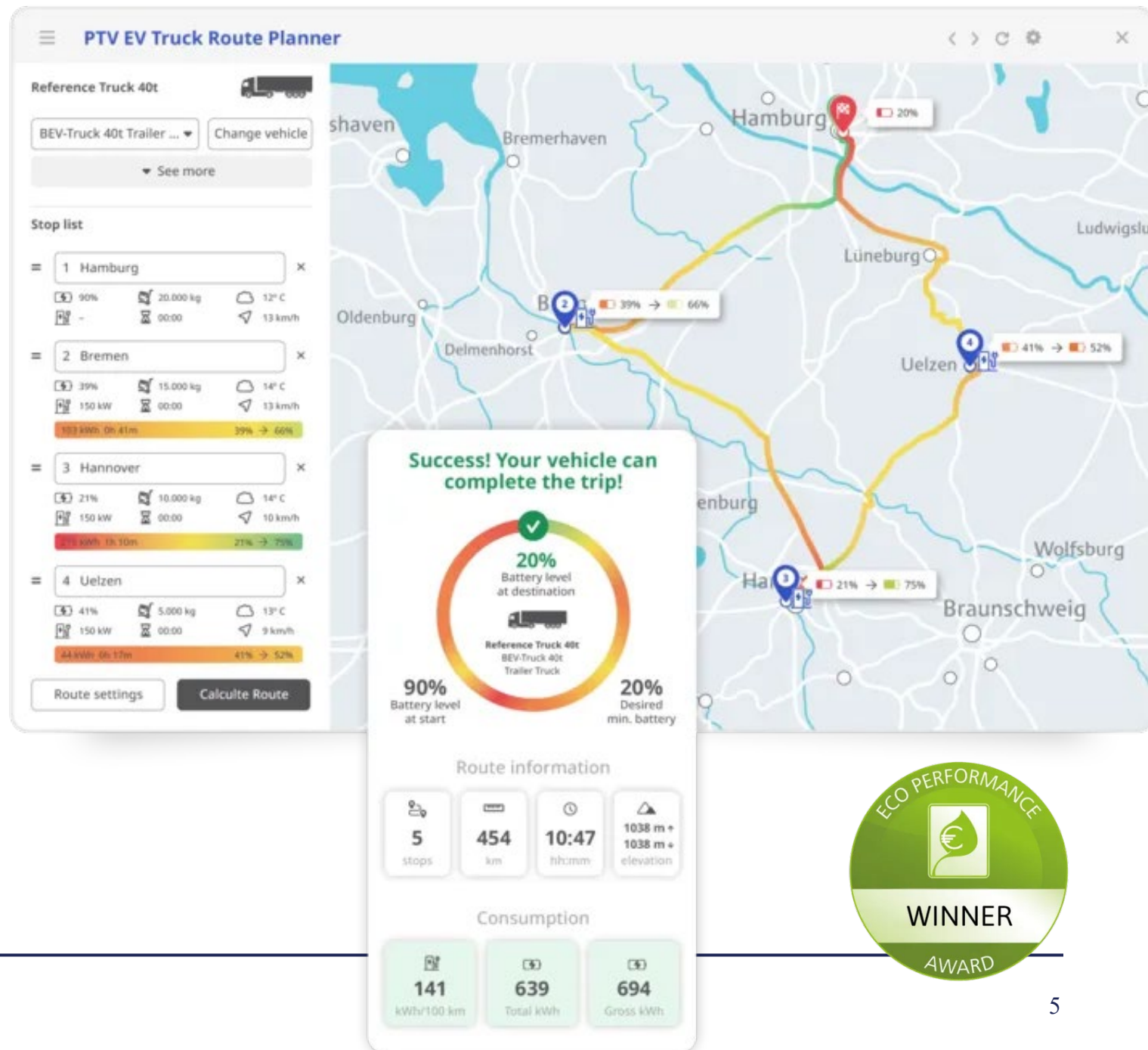
Real-Time Transport Visibility

Proof of Delivery



# PTV EV Truck Route Planner

- › Digital twins of 100+ vans and 200+ trucks available
- › Multi-stop planning
- › Customizable payloads
- › Weather influence
- › Charging optimization
- › Route stats, consumption etc.



# PTV Group: THE Transport System



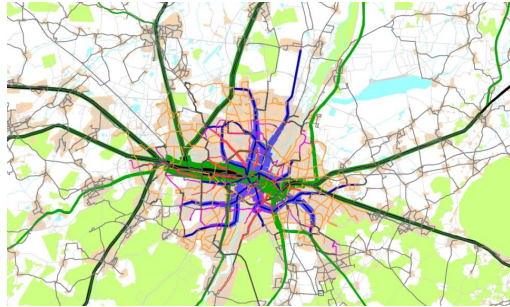
[Bahnbilder.de]



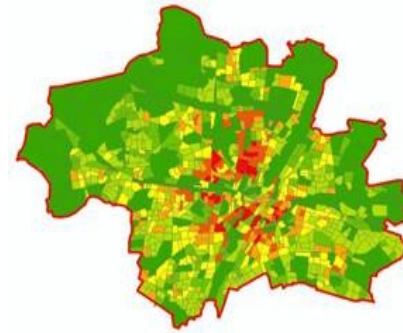


# Strategic Planning : PTV Visum

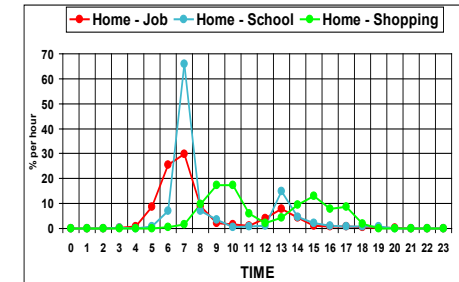
Network models  
road/public



Population/ Land Use



Behavioral Data



Activity Choice

Destination Choice

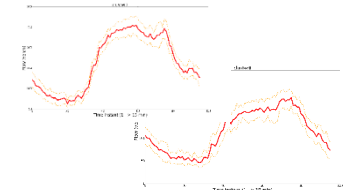
Mode Choice

Path Choice

Travel demand model

PTV VISUM

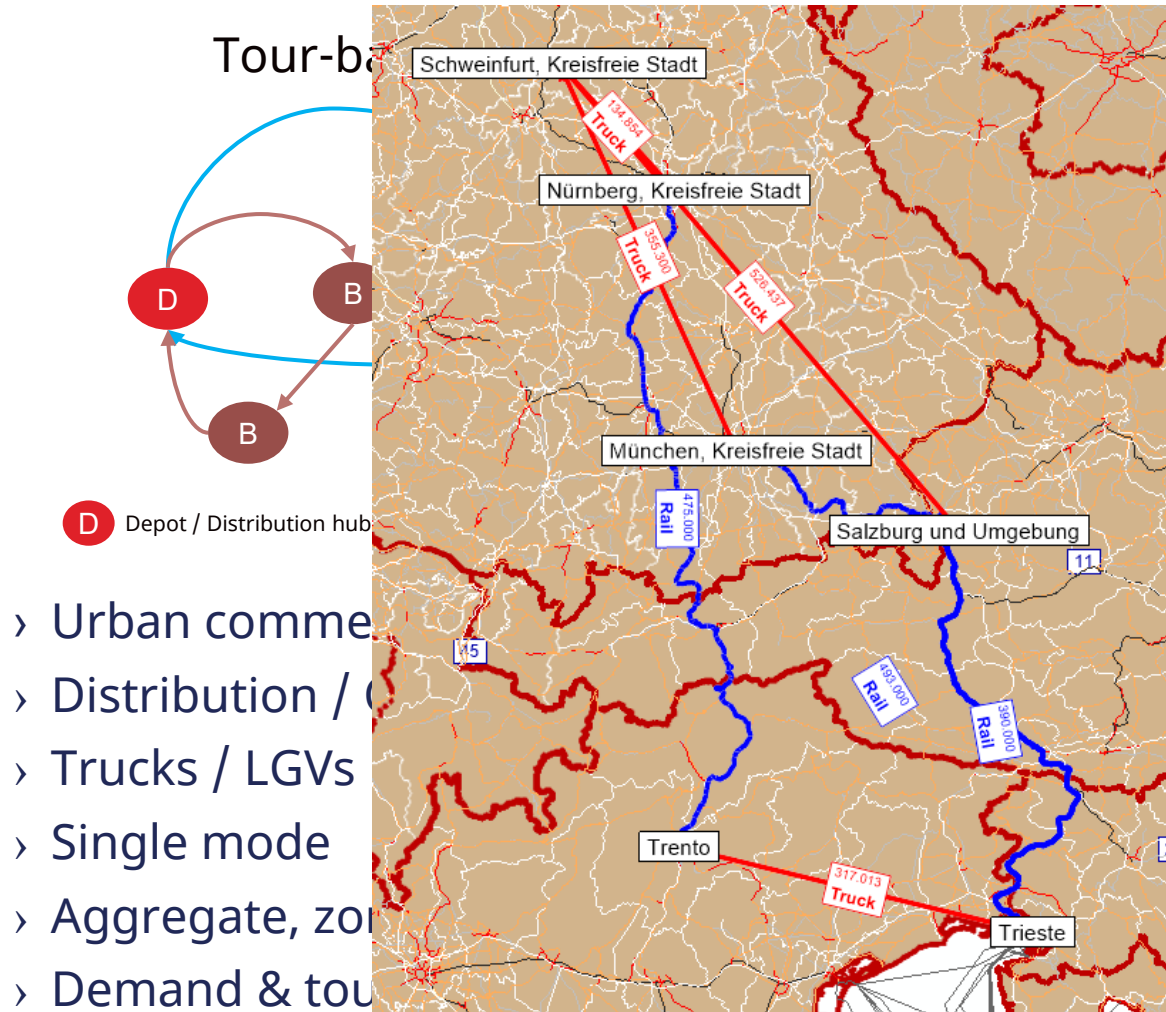
Calibration



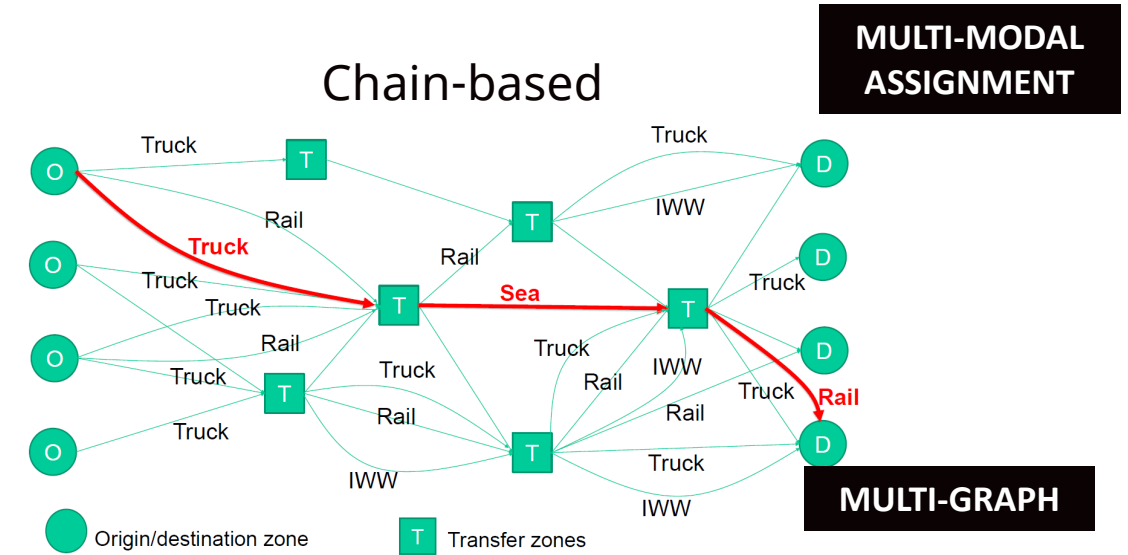
Empirical data

Scenario analysis

# Freight Modelling with PTV

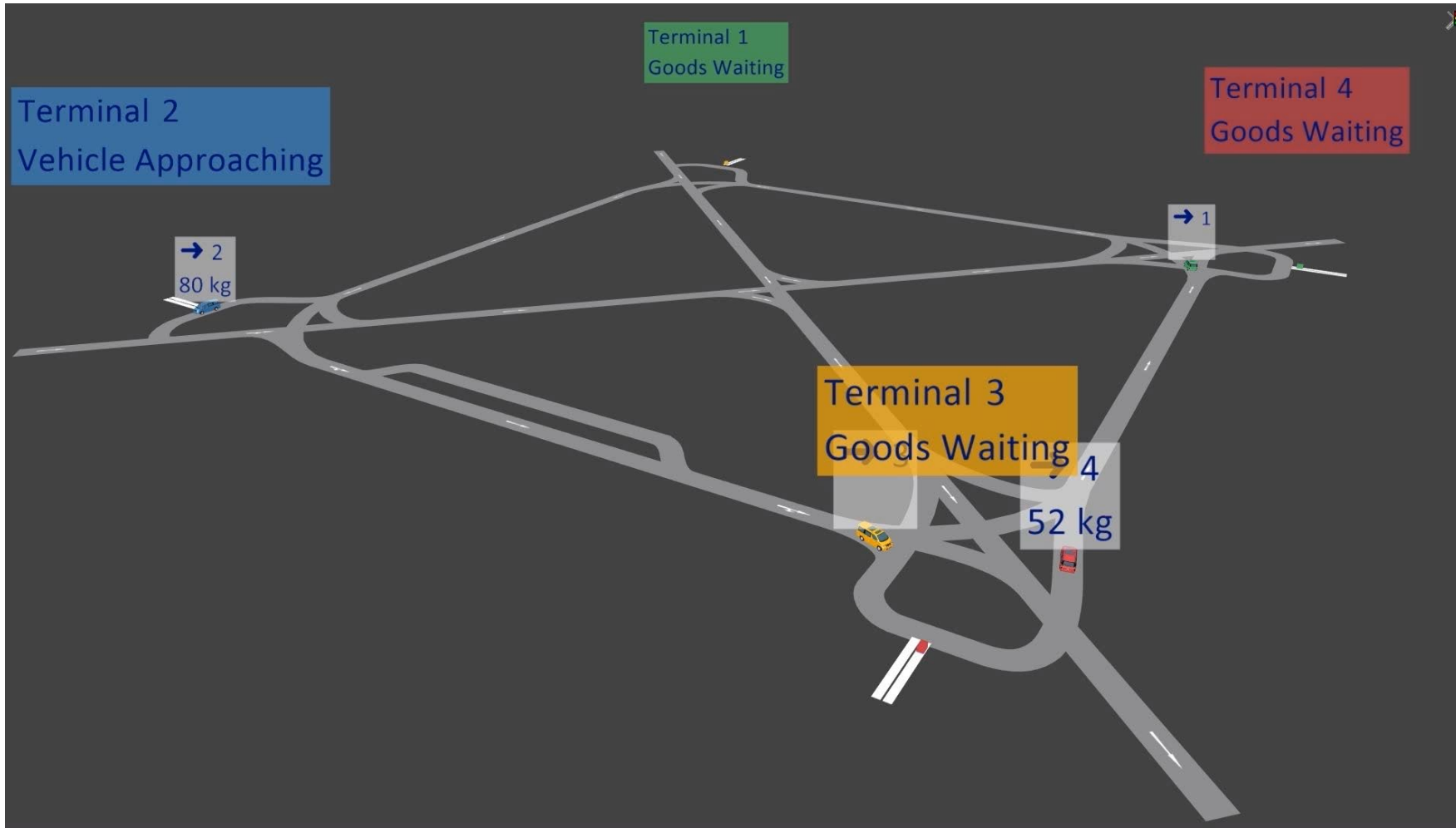


## Vi s u m



- › (International) transport chains
- › Freight transport /trade
- › Any mode
- › Intermodal (with main mode)
- › Aggregate, zone-based
- › Sequence choice

# PTV Vissim Example: Courier Service

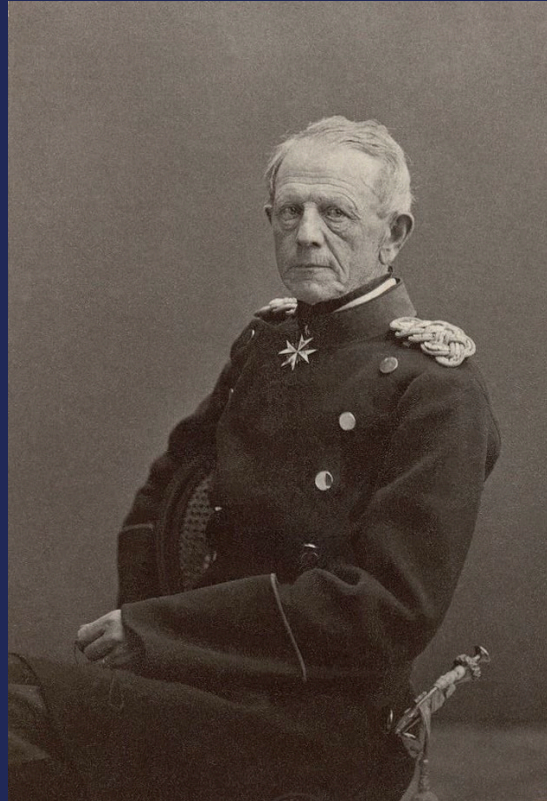




# Is good planning sufficient?

„Kein Operationsplan reicht mit einiger Sicherheit über das erste Zusammentreffen mit der feindlichen Hauptmacht hinaus“

*Helmut von Moltke  
(1800 – 1891)*

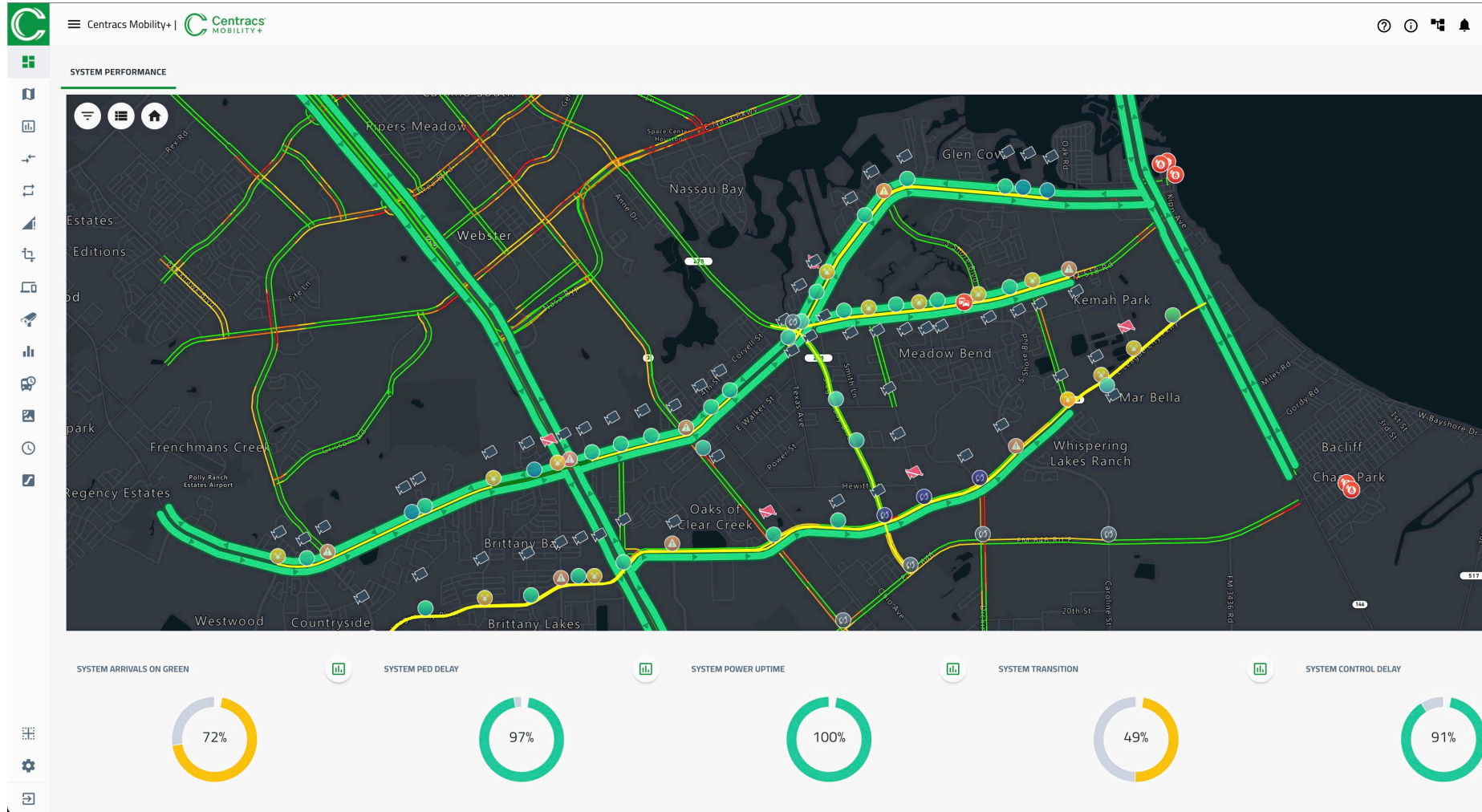


[<https://commons.wikimedia.org/w/index.php?curid=130629014>]

„No plan of operations reaches with any certainty beyond the first encounter with the enemy's main force.“

*Helmut von Moltke  
(1800 – 1891)*

# ATMS Centrac's Mobility



- › Real-Time traffic management
- › Monitoring of live state from sensors
- › Optimization of signal timings and coordination



# Project example: EFEU Campus



- › Urban quarter as experimentation space for smart logistics
- › Last-mile delivery with automated vehicles
- › Intelligent tour planning and routing with algorithms from PTV Logistics





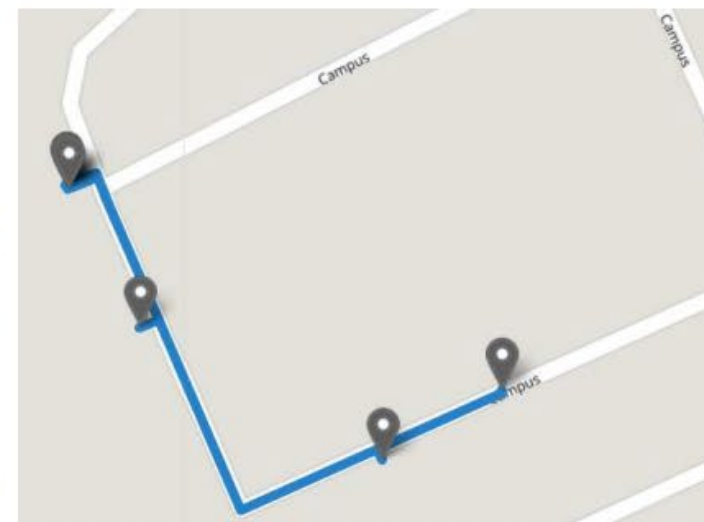
# Project example: EFEU Campus



Requests



Tour Planning



Routing



Path Planning

# Project example: EFEU Campus



# RegioKArgo

- › Tram system is used to deliver cargo through the city in mixed operation in off-peak hours
- › Delivery to urban hubs
- › Last-mile delivery with couriers or automated vehicles



[AVG / Michael Krauth]



# Follow - up: LogIKTram\*



[FZI – Forschungszentrum Informatik]



[AVG / Paul Gärtner]

\* PTV was not part of LogIKTram

# Cargo in Passenger Train in Japan

## Bullet trains haul freight as fruit, seafood ticketed for fast delivery

By AYATERU HOSOZAWA/ Staff Writer  
July 27, 2023 at 07:00 JST

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Parcels of goods are loaded onto trucks that fit between the seats aboard a Shinkansen. (Provided by East Japan Railway Co.)

[<https://www.asahi.com/ajw/articles/14957565>]

## JR East Eyes Freight-Only Cars for Shinkansen Trains as Japan Logistics Industry Suffers from Labor Shortage

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[<https://japannews.yomiuri.co.jp/attachment/214585/>]





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