UPPER

Measure MAN_03: Data-driven platform for supporting PT planning and operations based on the concept of Mobility-as-a-Right

Activities towards demonstration *(How?)*

Preliminary Works

Two data sources implemented

At rnv, we're working on creating a Data Warehouse that systematically stores all relevant data. The two data sources that are implemented within this Warehouse consist of our "To be" data and our "Is" data. More precisely, we parse and store the data which comes from our "Fahrplanungstool Lio-Data" and the data received directly from the vehicles and the actual course it took.

Deployment

Implementation of at least three basic statistical use cases

Having a structured database of both planned and actually rode courses enables us to solve different questions regarding each data source individually as well as in combination:

How is the demand distributed over the city?

Does the offer match the demand?

Is there a pattern in delays?

Etc.

Develop Complex Machine-Learning Use Case

These data sources enable us to make predictions on how the demand may behave in the future.

Demonstration Activities

Statistical Analysis Showcase: Present visualizations of demand distribution, demand-offer alignment, and delay patterns using dashboards.

Predictive Model Demonstration: Show how machine-learning models forecast future demand trends, highlighting real-world applications such as resource allocation or service optimization.

Results Evaluation

Impact Assessment: Evaluate improvements in decision-making accuracy and operational efficiency.

Model Performance: Demonstrate prediction accuracy and validate it against real-world data.

User Feedback: Collect input from operational teams to refine functionality and ensure practical usability.

Timeline for implementation and demonstration *(When?)*

UPPER	Jul-2024	Aug-2024	Sep-2024	Oct-2024	Nov-2024	Dec-2024	Jan-2025	Feb-2025	Mar-2025	Apr-2025	May-2025	Jun-2025	Jul-2025	Aug-2025	Sep-2025	Oct-2025	Nov-2025	Dec-2025	Jan-2026	Feb-2026	Mar-2026	Apr-2026	May-2026	Jun-2026	Jul-2026	Aug-2026	Sep-2026	Oct-2026	Nov-2026	Dec-2026
General planning for MAN_03																														
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Develop Complex machine-learning use case																														
Demonstration activities																														
Show Concept of three basic statistical use cases, Complex machine-learning use case and two data sources																														
Results evaluation																											**D6.3**			