tumi DATA

Gaining Insights into Public Transport with the

TUMI GTFS Analyzer

Public transport is essential in the transition to a post-carbon society. The TUMI GTFS Analyzer addresses this by leveraging digital transit scheduling data, utilizing the GTFS standard to evaluate and eventually improve public transport services across various cities and regions.

Accessible via this URL:
gtfs.apps.tumidata.org

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With the Transformative Urban Mobility Initiative (TUMI), the German Federal Ministry for Economic Cooperation and Development (BMZ) is supporting climate-friendly, inclusive, safe and affordable Mobility in cities. TUMI is funded by BMZ and implemented by GIZ in collaboration with all TUMI partners.

- *www.transformative-mobility.org*
- *@Tuminitiative*
- *@transformativemobility*
- *Transformative Urban Mobility Initiative*

On behalf of: Federal Ministry for Economic Cooperation and Development

Implemented by: giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Developed by: ubilabs

Public transport is crucial for sustainable urban development, especially as cities transition to a post-carbon society. The success of public transport relies on its accessibility and frequency, key for its widespread adoption. However, the quality of public transport varies widely across cities and regions. Advances in digital scheduling data availability have enabled standardized evaluations and quality assessments of urban transport systems. This digital progression allows for consistent evaluations of urban transport, highlighting the importance of reach and regularity in public transport for broad acceptance and effective urban growth.

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Find strengths and areas for improvement of public transport systems with a click

Enter the "TUMI GTFS Analyzer", a project that leverages the digital shift towards standardized timetable data. It utilizes the General Transit Feed Specification (GTFS), a format that has become a de facto standard in various implementations for representing transit data.

The tool connects directly to the TUMI Mobility Data Hub enabling automatic screening of data sourced from the plattform. It offers users a user-friendly web frontend for searching and selecting available GTFS data. With minimal input parameters, the tool facilitates a range of analyses. These include assessing the spatial distribution of stops, service quality, departure frequencies, identification of areas with inadequate service (white spots), and times of low and high frequency.

Key Features of the TUMI GTFS Analyzer:

Standardized Evaluations:
Utilizes GTFS data from the TUMI Mobility Data Hub for consistent quality assessments.

User-Friendly Interface:
Offers a modern web frontend for easy data selection and analysis.

Comprehensive Analysis:
Enables detailed analysis including spatial distribution of stops, service quality, departure frequencies, identification of under-served areas, and peak and off-peak frequency analysis.

Documentation and Reporting:
Facilitates saving and printing of analytical results for further use.

Part of an Ecosystem

The TUMI GTFS Analyzer contributes significantly on multiple fronts to the transition in transport systems worldwide.
It visualises critical quality characteristics of existing GTFS datasets in a transparent and intuitive way. It also incentivises the creation of such data in cities not yet covered.
Ultimately, the tool serves as a showcase, demonstrating the added value of integrating applications with the TUMI Mobility Data Hub, thus fostering a more inclusive and efficient urban mobility landscape.