Improving Public Transport Through Digitization with Open Source Code and Data

Trufi Association e.V.

15 JUNE 2022











Contents

About Trufi Association e.V.

2 Working Method

1





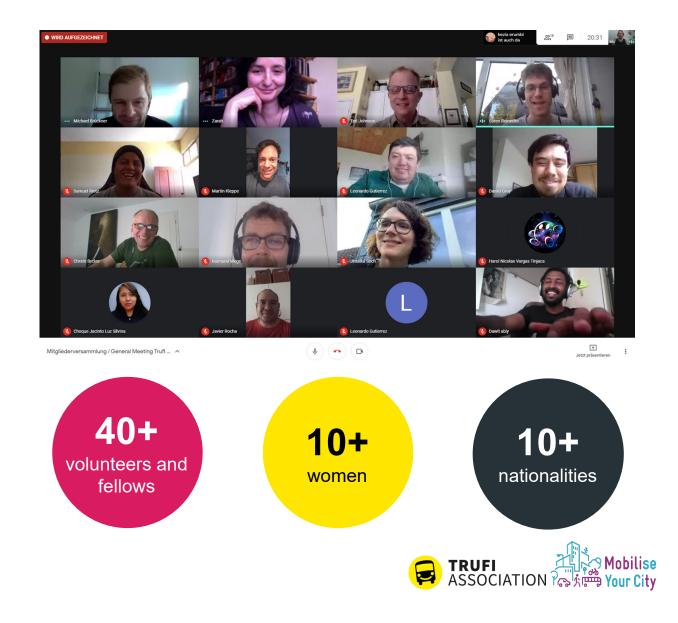
About Trufi Association e.V.





Trufi Association e.V.

- Non-profit start-up for informal public transport
- Active since Mai 2018 & officially an NGO since April 2019
- Mission: Improve public transport worldwide through digitization
- Vision: Seeing people especially in developing countries enjoy a modern, digital and easily accessible public transportation.

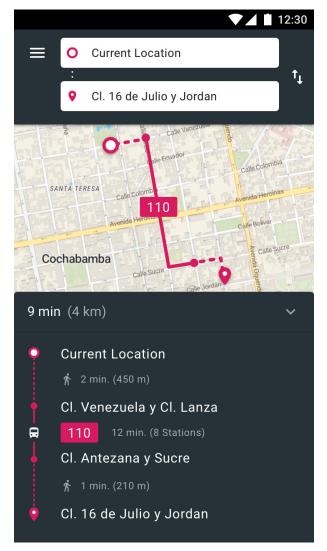


Trufi Association e.V. Network



Flagship Product: Trufi App

- Open Source Multi-Modal Journey Planner
- Built on Flutter with OpenStreetMap and Map Tiler
- Full Door-to-Door navigation
- Customizable / White-Label Solution
- Released as Open Source under an AGPL license





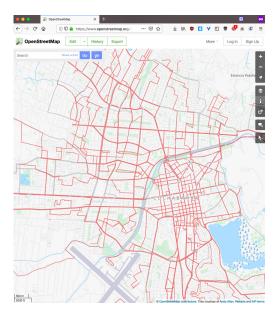
Working Method



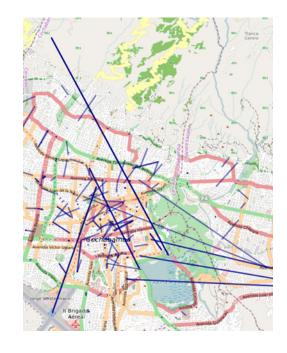
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Impact Driven: Empowering the Community





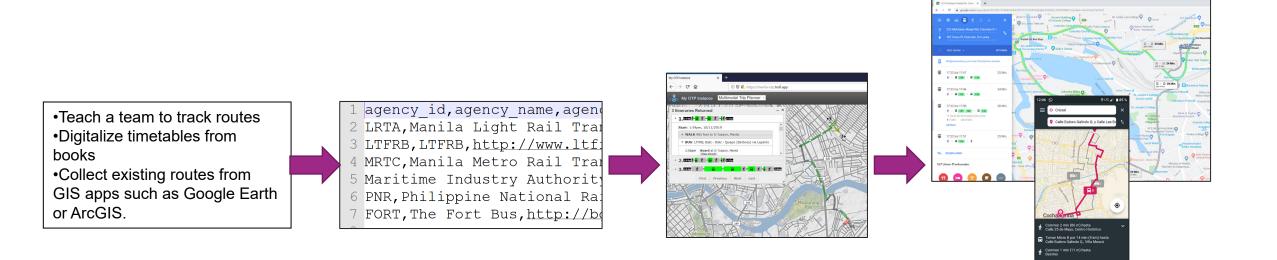




We build and support OpenStreetMap communities & train them how to maproutes We make all routes publicly available on OpenStreetMap for free and for everyone Our App finds the best multimodal door to door journeys We help cities plan better transport links with journey patterns from our user data



Technology: Digitalizing Informal / Semi-Formal Public Transport Data



Collect and digitalize the data

Create a standard GTFS format from the data

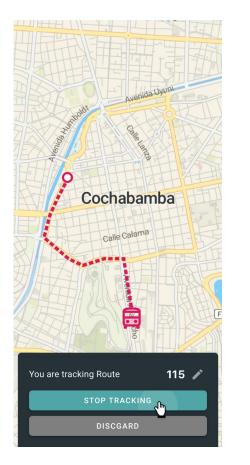
Provide server to make doorto-door route planning Create app and enable routing in OpenStreetMap and Google Maps

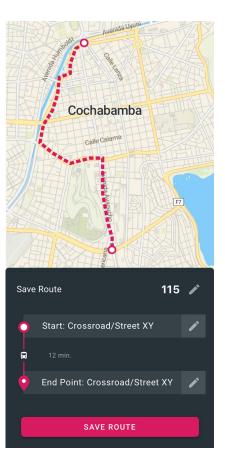


Community Crowdsourcing: Keeping the Data up to Date









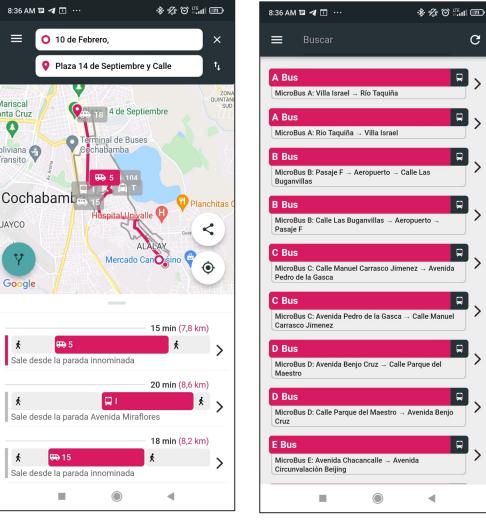


Use Cases



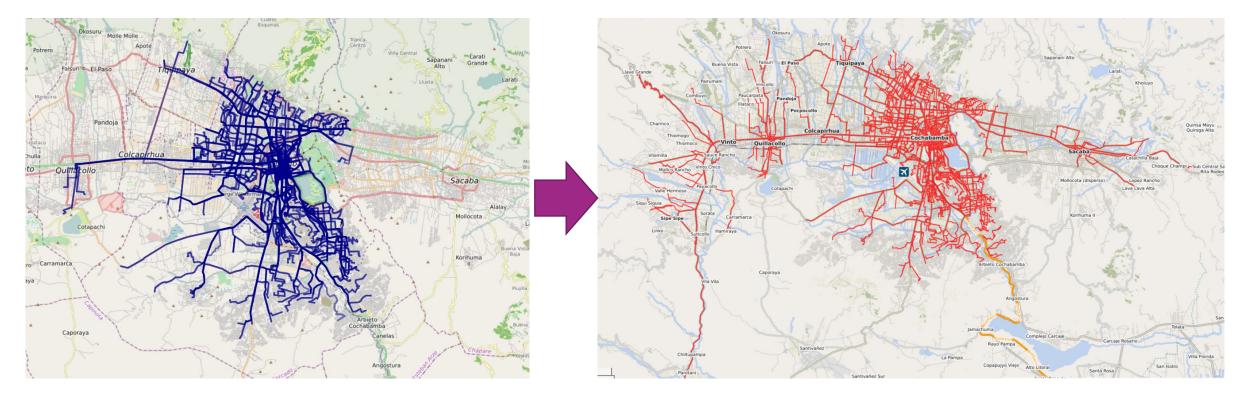
Cochabamba, Bolivia – Trufi App

- Bus collection by OSM community
- Primary contact: Head of Transport Agencies
- Local partner: SIRcode.io and Nexion SRL
- Uptake: 5.000 users within first two weeks after Go Live
- Currently more than 20.000 users





Cochabamba, Bolivia – Trufi App



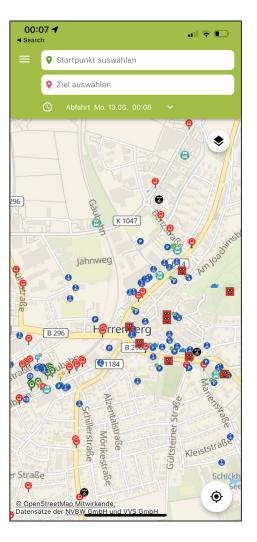
297 routes

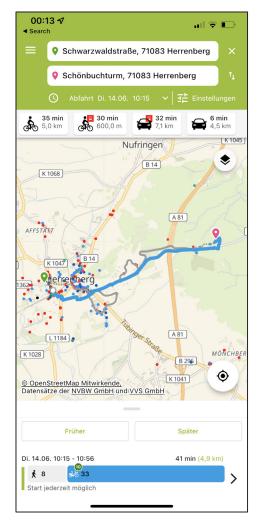
437 routes



Herrenberg, Germany – stadtnavi App

- Funded by the Federal Ministry of Transport and Digital Infrastructure
- One of five pilot cities in Germany
- Part of the "Clean Air Initiative"
- Links all local mobility offers
- Uses local real time data

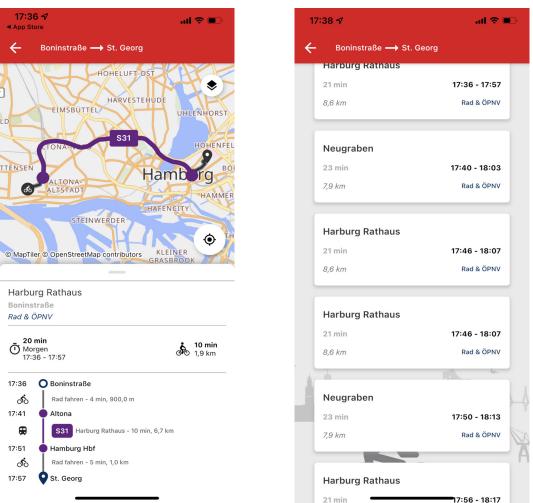






Hamburg, Germany – Not Without My Bike App

- Specifically built application for cyclists
- Integrates ferries and blocking times for bikes on public transport
- Individual routing that uses different parameters to suggest the best routes according to preference
- Plans to integrate the app in Hamburgs public transport app landscape





Nouakchott, Mauretania – Mapping Services

- Contracted by the city of Nouakchott for the mapping of semi-formal transport routes
- Built and trained the local community
- Handed over all the generated data to the city

• Facts:

- Kilometers travelled: 400
- Hours travelled while tracing: 55
- Bus and taxi routes traced: 59
- GPS traces: 61
- GTFS file generated
- Social media campaign for the project





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