



How to remotely map a city's public transport network during a pandemic July 9-11, 2021

www.trufi-association.org

What is Trufi Association?



- Non-profit start-up for informal public transport
- Started 05/2018, officially founded NGO in 04/2019
- Mission: Improve public transport worldwide through digitization
- Vision: People in development countries choose public transport options because they are accurate, helpful and attractive







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What is informal transport?



- Informal
 - No official stops
 - No schedule
 - No documentation of bus lines
 - No official transport network, but private agencies

• Semi-Formal

- Mixture of formal and informal transit, like Metro in Addis Ababa plus minibuses or Gondolas in La Paz plus minibuses
- Typical in Middle and South America, Africa and Asia



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Expansion



TRUF

Our MaaS Products & Services



Products

- Trufi App
- Driver App
- Dashboard for Cities and Agencies
- Tools for transit data

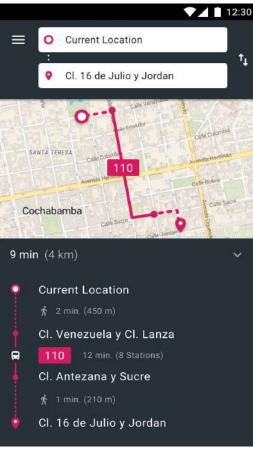
Services

- Customization of Trufi app for cities, regions, countries
- Training of local teams
- Collection of bus network and creation of GTFS
- Maintenance of bus routes

Main Product: Trufi App







Open Source Multi-Modal Journey Planner for Semi-Formal Public Transport in Big Cities

- Trip planner with full door to door navigation
- GPS location on granular maps for easy navigation
- Multiple suggested routes, integration of transport modes
- Search suggestions for street names, crossings and points of interest
- Save preferred routes and frequent searches
- Location-specific in-service advertising

Built on Flutter with Open-StreetMap and MapTiler



- Available for Android 4.1 or higher and on iOS 8.0+
- Routes from OSM and multiple transport providers
- Multilingual, including local languages and indigenous languages, e.g. Quechua
- Released as Open Source under an AGPL license
- Continuous development along the Digital Principles

Principles *for*Digital Development







Our project in Nouakchott





Project Objective

- Support local government with public transport consultancy
- Necessary steps:
 - Collect bus routes
 - Digitize / map to OSM
 - Create GTFS
 - Take Mapillary photos

Photo: Mouhamed Lemine

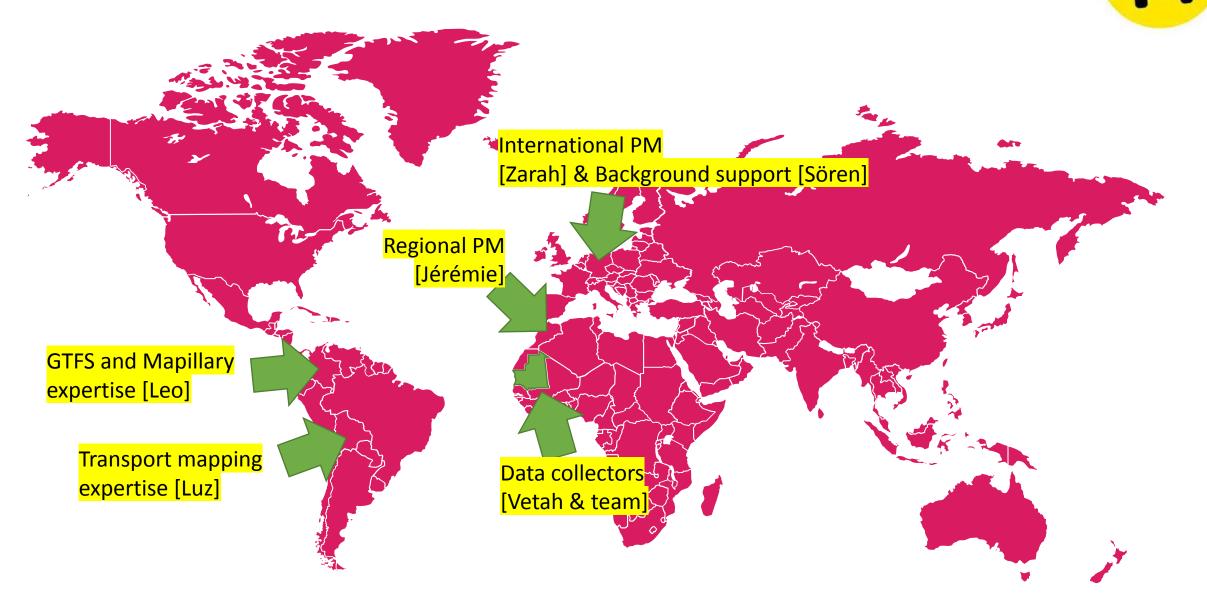
Our typical approach...



Community Building OSM Mapping App Release Public Transport Planning

...was not possible due to pandemic.

So we decided to remote map...



TRUE

Vetah

TRUF

Doing the data collection:





Uploading to OSM:





TRUFI

Luz

Creating the GTFS



Leo

TRUE

Vetah

TRUI

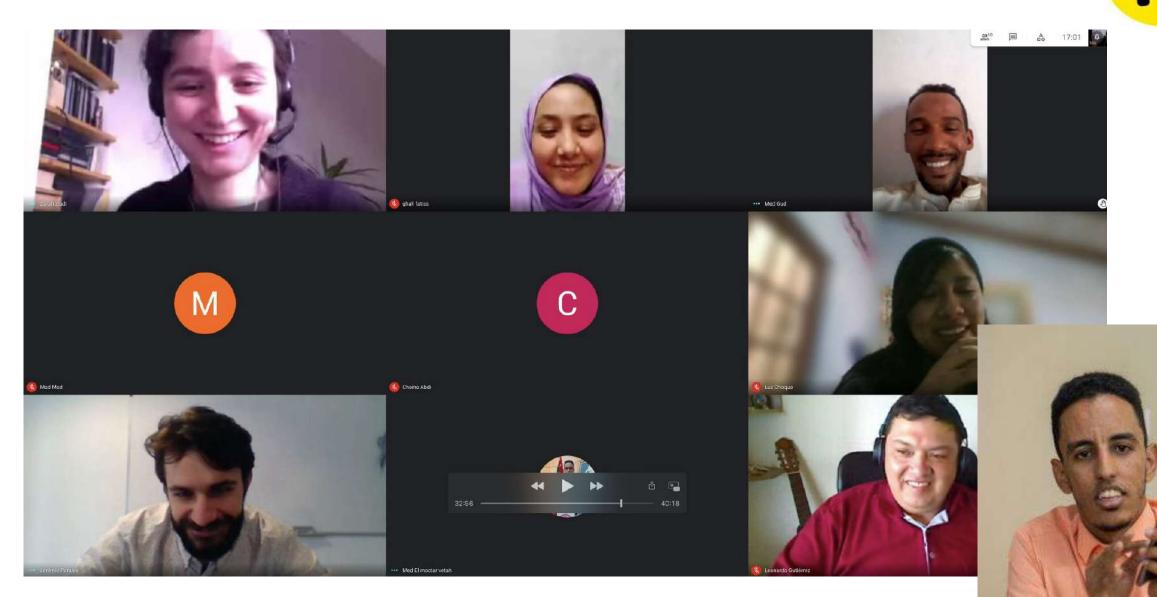
Taking Mapillary photos



Jérémie

TRUF

Organizing the project



Our partners in Nouakchott







Daba 'GO

Mieux connaitre pour mieux se déplacer





Liberté Égalité Fraternité





Get in contact with us





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Local Team: Vetah: OSM User <u>@vetah MOHAMED EL</u> <u>MOCTAR</u>

Summary





- Local collection & remote mapping was working much better than expected
 - (+) No necessity to fly there (saving CO2 and time)
 - (-) Community is build better when you see each other
- Remote mapping possible if local team has basic technical knowledge - and much more fun if they have OSM skills
- We are ready to remote-map the next city :-)





Welcome aboard!

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