

TRUFI
ASSOCIATION

**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



Global Team & Local Communities

Michael Brückner, Zarah, Ted Johnson, Sören Reinecke, Samuel Riotz, Martin Kleppe, Leonardo Gutierrez, Daniel Gray, Chrstin Brcknr, Raimund Wege, Jessika Soch, Harol Nicolas Vargas Tinjaca, Choque Jacinto Luz Silvina, Javier Rocha, Leonardo Gutierrez, Dawit abiy

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



Expansion



- Trufi App launched
- Pilots launched
- In discussion

Our MaaS Products & Services



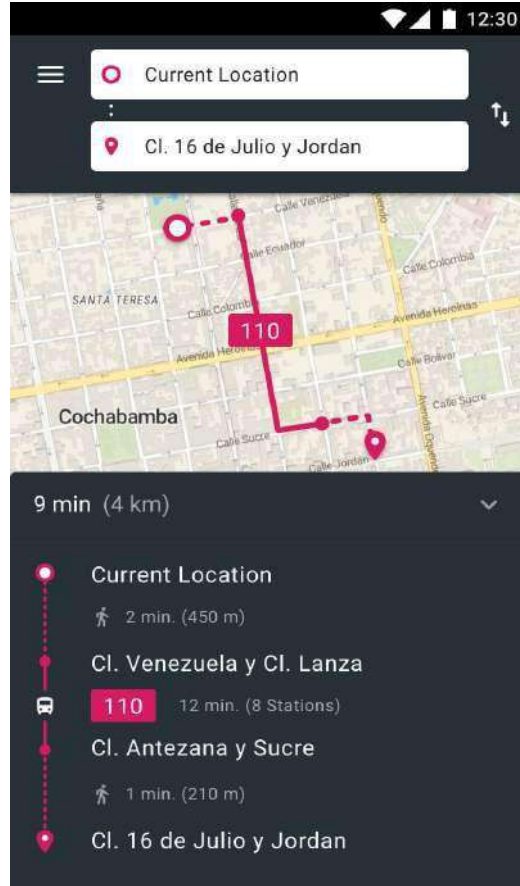
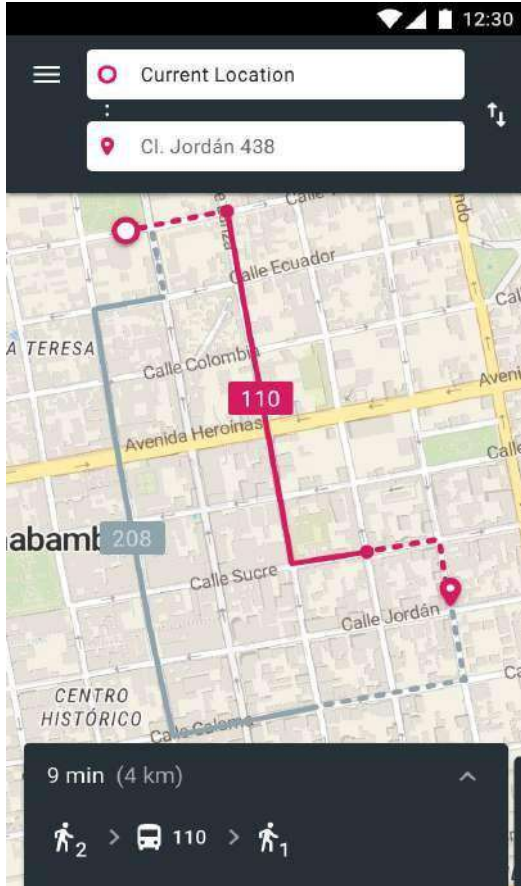
Products

- 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 OpenStreetMap 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



Our project in Nouakchott



[Photo: Mouhamed Lemine](#)

Project Objective

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

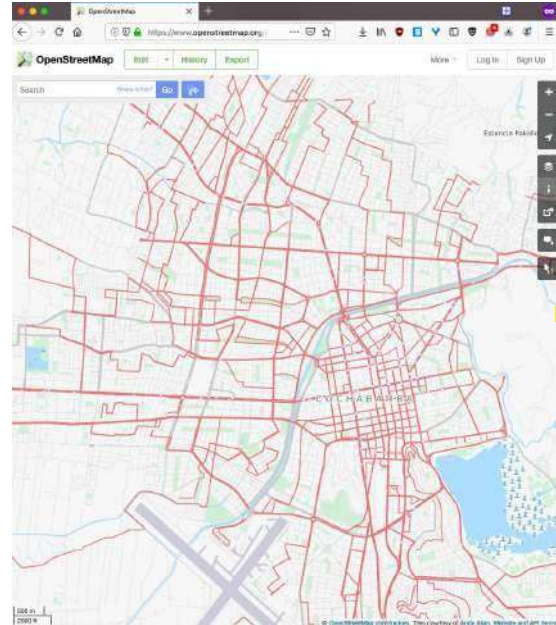
Our typical approach...



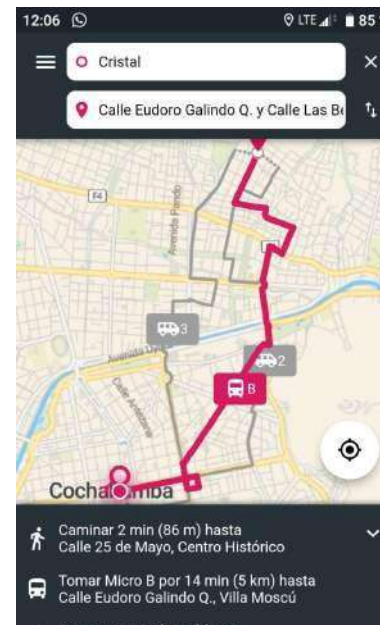
Community Building



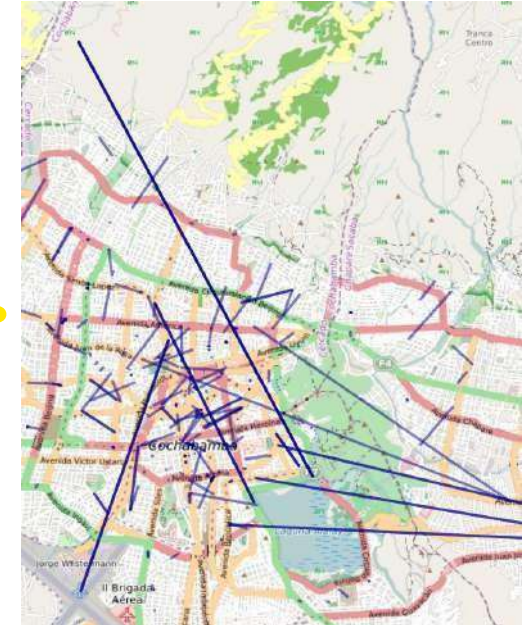
OSM Mapping



App Release

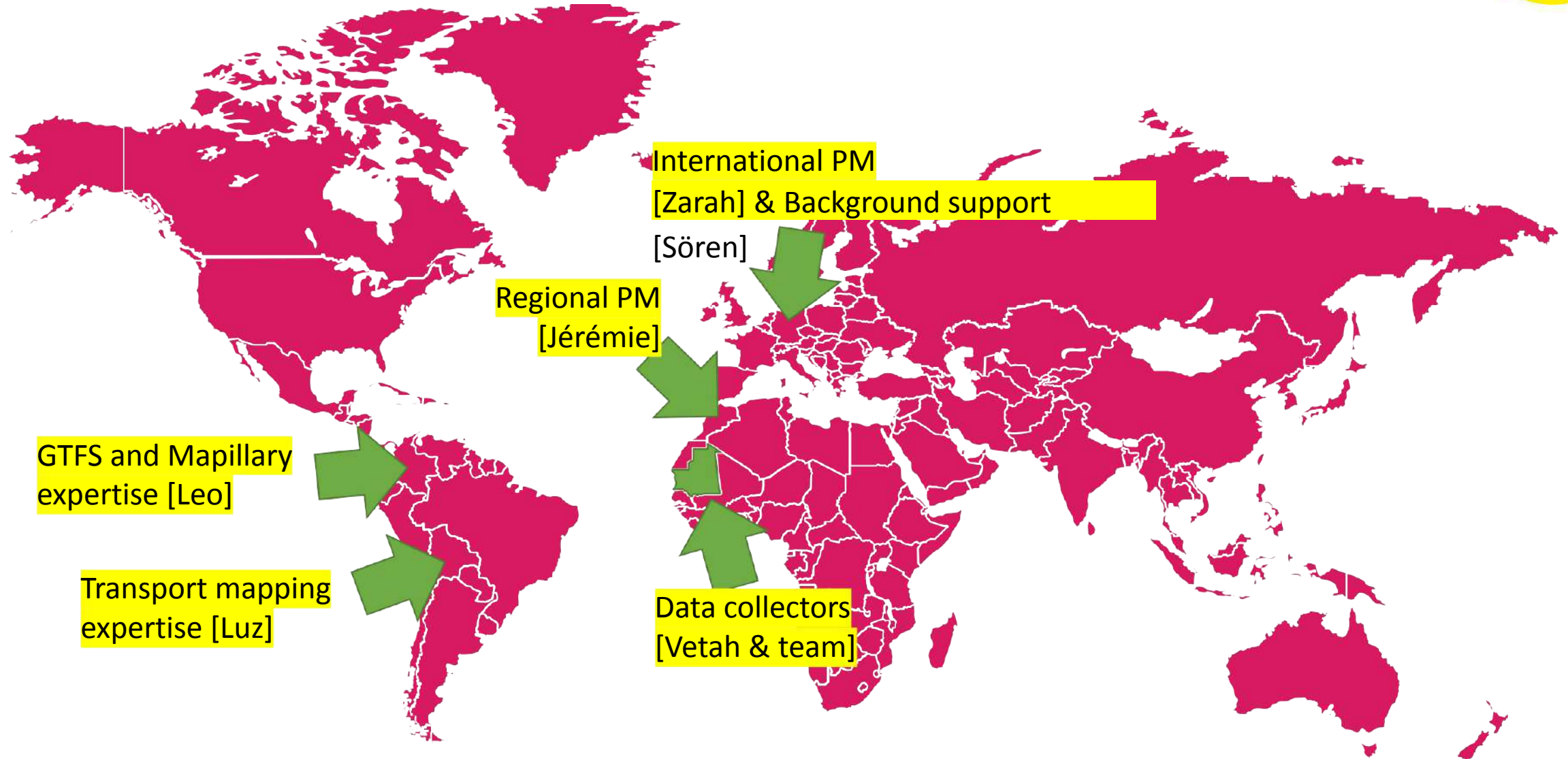


Public Transport Planning



...was not possible due to pandemic.

So we decided to remote map...



International PM
[Zarah] & Background support
[Sören]

Regional PM
[Jérémie]

GTFS and Mapillary
expertise [Leo]

Transport mapping
expertise [Luz]

Data collectors
[Vetah & team]

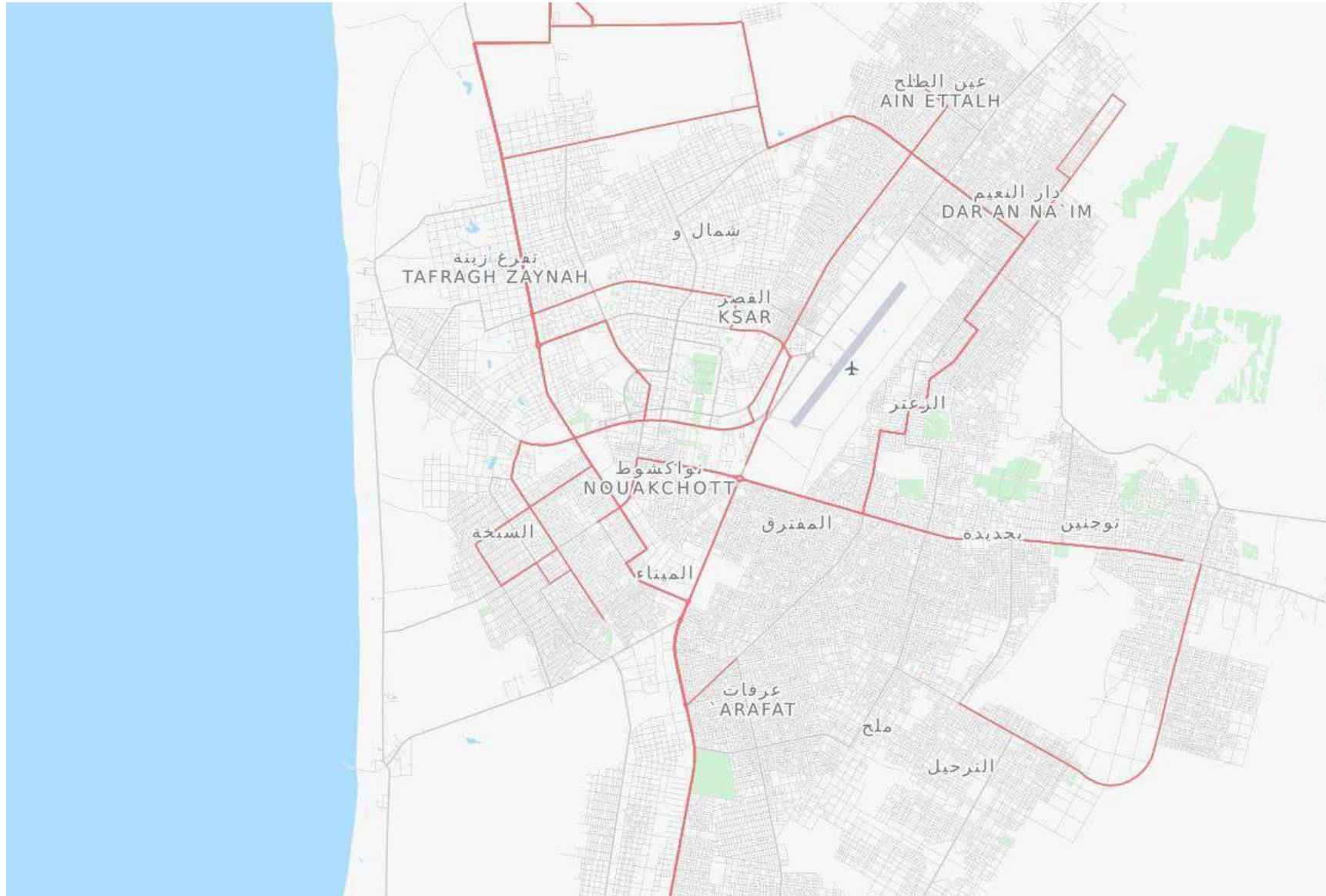
Doing the data collection:

Vetah



Uploading to OSM:

Luz



Creating the GTFS

Leo



GTFS Analyser



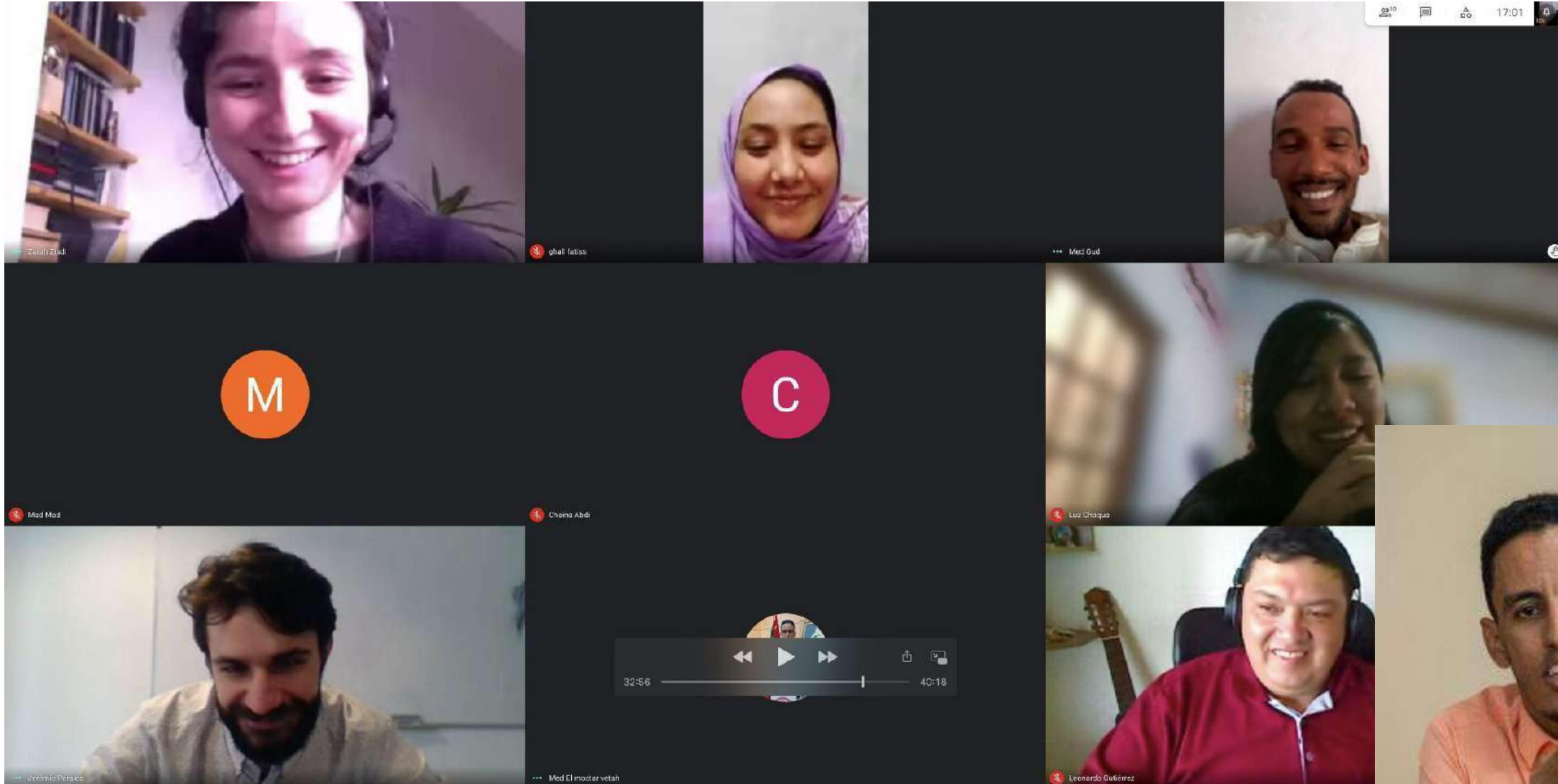
Taking Mapillary photos

Vetah

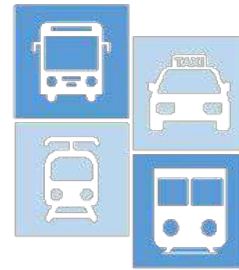


Organizing the project

Jérémie



Our partners in Nouakchott



Daba 'GO

Mieux connaître pour mieux se déplacer



Get in contact with us



Trufi Association & Team:

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Project Team:

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Leo:

Leonardo.Gutierrez@trufi-association.org Luz:

Luz.Choque@trufi-association.org

Local Team:

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



Welcome aboard!

Christoph Hanser, President
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with the help of: Luz Choque, Leonardo Gutierrez, Jérémie Perales, Vetah Mohamed el Moctar

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