



PRACTICE PORTFOLIO

Q1 | 2025





Hello! We are TfC.

Transport for Cairo (TfC) is a strategic advisory practice in the domain of sustainable urban mobility.

TfC Data Lab

We specialize in data collection, modelling, simulation and visualization.

TfC Tech

We develop digital tools, RouteLab, to facilitate data collection and management in data-poor environments.

TfC Urban Mobility Lab (UML)

We provide consulting and project management services and produce actionable research, policy papers and training programs.

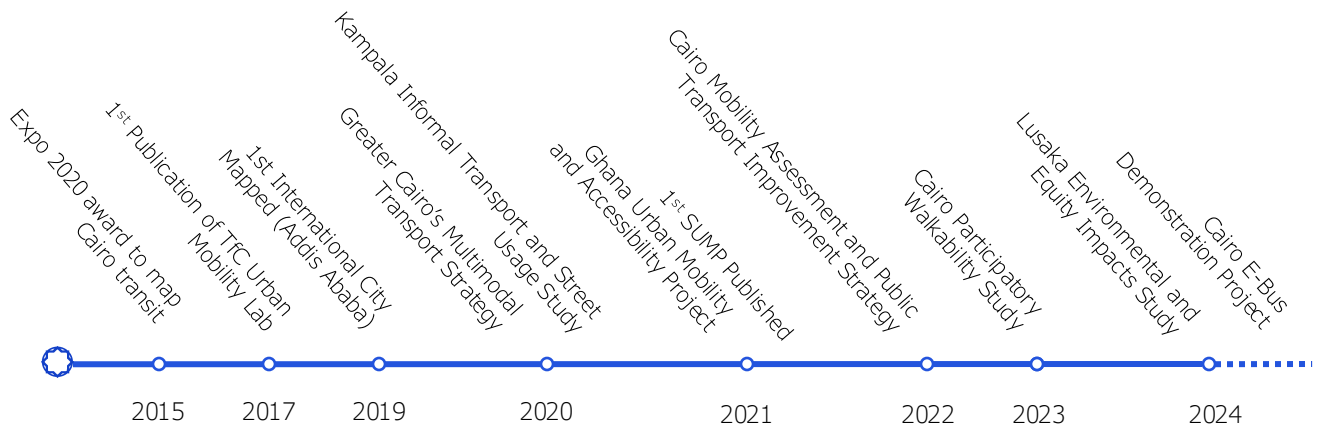
TfC Passenger Information

Our passenger information systems sub-practice designs transit maps and wayfinding material for a quality passenger experience.

QUICK HISTORY

TfC started out as an ambitious idea: Mapping Greater Cairo's public transport network.

In 2019 we started offering data-driven advisory services as a consultancy in addition to our transit mapping services.



Transforming African Paratransit

We help African cities envision and build sustainable mobility systems that make a distinctive and lasting impact on economic growth and quality of life in urban areas.



**10 metropolitan cities
mapped
across
9 African countries**

Most African commuters rely on paratransit provided by driver-entrepreneurs. TfC provides the tools to map these informal transportation networks providing vital data for transport authorities to plan cleaner, more efficient and opportunity generating urban mobility networks.

We are also actively building our knowledge and contributing to the global study of informal transport transition through the following pathways:

- **CHANGE MANAGEMENT**

The sociological, gender and economic perspectives of change

- **DIGITAL TRANSFORMATION**

Network mapping, planning and operations to passenger information and user experience

- **DECARBONIZATION**

Zero-carbon development pathways for Africa



FOCUS AREA



TfC's **data management platform** enables rapid exploratory analysis, identification of data gaps, benchmarking and **effective analytics**.

TfC DATALAB

1

DATA COLLECTION

We collect and aggregate mobility system and urban data using RouteLab™.

2

DATA ANALYSIS

We diagnose the present and predict the future using innovative modelling and big data.

3

DATA VISUALIZATION

We make complex geospatial and statistical analytics easier to digest.

WE BELIEVE IN OPENNESS

TfC is one of the founding partners of DigitalTransport4Africa open data portal.

We pledged to advance sustainable urban mobility through **open standards**, **open data**, **open source** and **open innovation**.



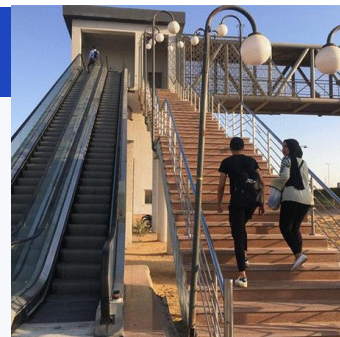
#DT4A

Electric Bus Demonstration Project: Detailed Planning and Design Study Client: Cairo Transport Authority (CTA); 2022 - ongoing

As part of the Greater Cairo Climate Change and Air Pollution Management Project launched by the Ministry of Environment with funding from the World Bank, TfC partnered with SETEC France and Shaker Consulting to pilot ca. 100 electric buses in Cairo with the Cairo Transport Authority (CTA). The project aims to produce a set of procurement documents to supply a small fleet of electric buses with their chargers and a depot retrofitting bidding package for the upgrade of one depot in Cairo to exclusively house e-buses including the 100 purchased through this project. TfC's contributions include collecting data on the current fleet, operations and capacity of the CTA, which informed many deliverables.

Greater Cairo Region Mobility Assessment and Public Transport Improvement Study – Client: WB (2020-2022)

World Bank commissioned study to conduct a comprehensive assessment of regional travel demand. It will assess the mobility of Greater Cairo Region from the levels of pedestrians to high-capacity public transport systems and propose public transport investment projects to improve efficiency and environmental footprint of the region's economy while addressing inclusiveness challenges by providing safer, more reliable, and more comfortable experience for all and especially women, vulnerable groups, and people with reduced mobility.



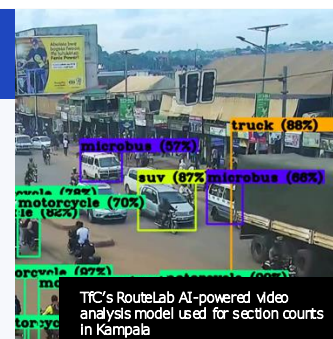
Ghana Urban Mobility and Accessibility Project – Client: TRANSITEC Consulting Engineers (2021)

TfC was contracted to collect data and map trotro routes in GAMA, through; defining a streamlined methodology for data collection, building the capacity of participating DoTs in data collection and processing methods; and producing datasets describing the spatial and operational characteristics of trotro routes in GAMA.



Study of the Paratransit System and Street Usage in Kampala – Client: AFD (2018-2019)

Issued by the French Development Agency (AFD) in collaboration with the Ugandan Ministry of Works and Transport and Kampala City, the study constitutes the assessment phase of a 3-step approach to the implementation of the BRT including mapping and analyzing Kampala's paratransit network and including it in a rich database (GTFS).

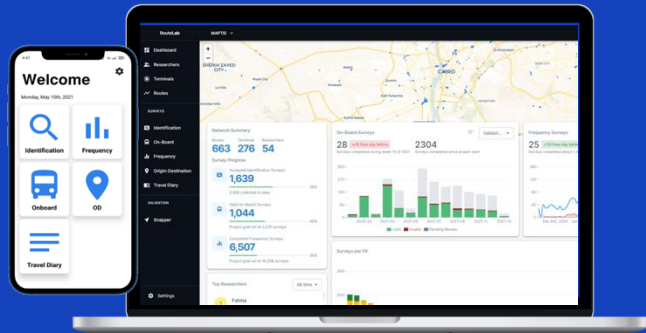


TfC TECH

RouteLab

Collecting and managing mobility data of large cities is challenging. RouteLab digitizes and streamlines the processes we have developed over years of informal transit mapping.

RouteLab is an evolving cloud computing platform provided by TfC to enable policymakers and planners to develop data-driven solutions to complex urban mobility problems.



How does it work?

- Efficient field research mobilization. Up to 75% reduction in data collection costs.
- Quick and easy data cleaning, validation and aggregation.
- Derive insights from videos and CCTV
- Automated route identification and illustration
- Exports data in standard formats including GTFS.

Comprehensive Survey Module

- Onboard Surveys
- Frequency Surveys
- Origin-Destination Surveys
- Household Surveys



Successful Data Collection Projects

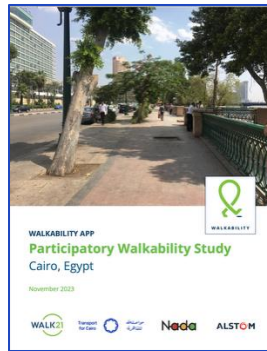
Using RouteLab, TfC and partners are able to efficiently collect data for different purposes and in different contexts, From Cape town to Cairo and from Accra to Addis Ababa.

TfC URBAN MOBILITY LAB

TfC partners with universities and research and policy centers to produce publications, datasets, training programs and novel research concepts that utilize data science.



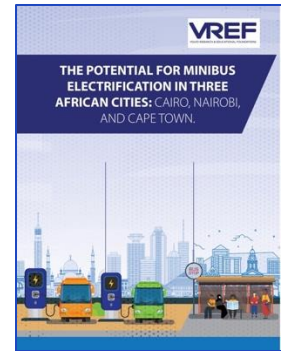
2024



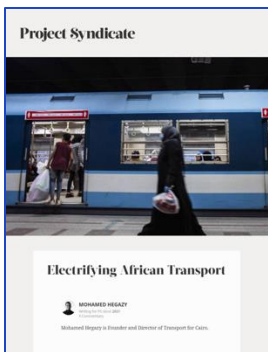
2023



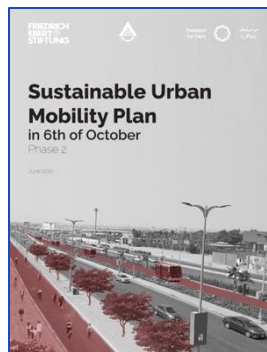
2022



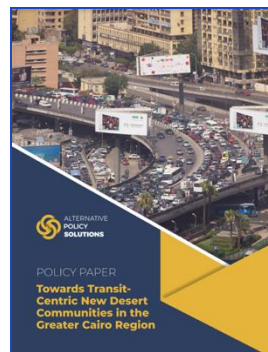
2021



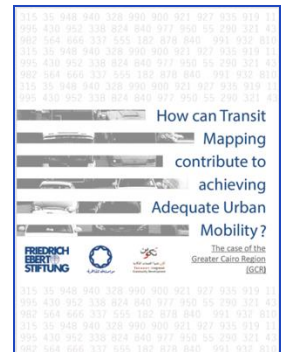
2021



2020



2019



2018

Capacity building for sustainable urban mobility for low income countries (2024) - High Volume Transport (HVT) Applied Research.
Participatory walkability project (2023) - Wak21.
Short-term technical assistance for the completion of databases and maps of public transport (2022) in Greater Accra - Ghana MLGRD.
The Potential for Minibus Electrification in Three African Cities (2021) - Volvo Research & Education Foundations.
Electrifying African Transport (2021) Project Syndicate.
The Sustainable Urban Mobility Plan for 6 October City (2020) Friedrich-Ebert-Stiftung - Cairo.
Towards Transit-Centric New Desert Communities in the Greater Cairo Region (2019) Alternative Policy Solutions - AUC.
How can Transit Mapping contribute to achieving Adequate Urban Mobility? (2018) Friedrich-Ebert-Stiftung - Cairo.

Our diverse team combines the knowledge of data, urban design and economics to provide a rich perspective to a wide set of activities.

- Sustainable urban mobility planning
- Policy analysis and design
- Modelling & Simulation
- Capacity development and training
- Public Consultation
- Project appraisal and market research



Photo: OpenStreetMap
training at Makerere
University delivered by TfC

Sustainable Urban Mobility Plan (SUMP)

for 6 October City

In response to the lack of holistic city-level planning, TfC adapted the EU-commission guidelines to the regional context in order to launch its first SUMP in the 2-million city of 6th of October, Egypt.

With the support of the Friedrich Ebert Stiftung – Egypt Office and in partnership with the New Urban Communities Authority (NUCA), TfC completed the first 3 phases of the SUMP process. This included citizen surveys and stakeholder interviews, as well as street level analyses and modelling of modal share and greenhouse gas emissions scenarios. The data was disaggregated to identify the specific needs and challenges of women.

Electric Bus Demonstration Project

for Cairo Transport Authority

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This project aims to produce a set of procurement documents to supply a small fleet of electric buses with their chargers and a depot retrofitting bidding package for the upgrade of one depot in Cairo to exclusively house e-buses including the 100 purchased through this project. TfC's contributions include collecting data on the current fleet, operations and capacity of the CTA, which informed many deliverables.

The data was used to provide a service and operational plan consistent with the new buses to be procured, a capacity building report for CTA to be prepared for the management of e-buses, and a scale up strategy for the electrification of the bus fleets in Cairo.

RACE-TO-ZERO

SUPPORTING
ZERO-CARBON
DEVELOPMENT
PATHWAYS IN AFRICA
WITH DATA.

We believe that we have an opportunity in Africa to couple our development and decarbonization pathways for a cleaner and more equitable future.

Our first SUMP helped 6th of October city reimagine its future with one third of the estimated emissions growth by focusing on modal shift from private car travel to public transport and active travel.

Recognizing a significant decarbonization opportunity in low- and middle-income countries where informal transport is responsible for the majority of daily trips, we are partnering with the Global Network for Popular Transport (GNPT) and the Transformative Urban Mobility Initiative (TUMI) to launch a global NDC template for popular transport, i.e. informal transport.

We are further producing a series of background papers with the Friedrich Ebert Stiftung (FES) on how to best integrate road and rail passenger and freight transport in Egypt's upcoming NDCs.

TfC Passenger Information Systems (PIS) designs maps and wayfinding material to reflect and satisfy passengers needs, and to help planners reimagine transit networks.



SCHEMATIC MAPS

system level representation of network



CARTOGRAPHIC MAPS

2D/3D visualization of geo-referenced data



COP27 Travel Guide

Client: COP27 Presidency

A travel guide booklet to enable sustainable mobility within the City of Sharm El Sheikh. The booklet will ease the mobility of delegates, attendees, staff and personnel of the COP27, but also acts as an initiative to support the Sharm Green City Project and in branding Sharm El Sheikh to be an environmentally sustainable tourist destination.



Cairo Metro Green Line 3

Client: RATP Dev Cairo (2021)

Green Line 3 refreshed its brand to attract new customer segments. TfC supported the new brand with modern and user-friendly passenger information systems through new system and local neighborhood maps. In a complex city like Cairo, this required the setting of a sophisticated information hierarchy to present layers of urban fabric, nature, history and infrastructure in Line 3 neighborhoods.

More References	Client	Year
6 th of October City user transit maps (formal and paratransit)	ExpoLive 2020	2018
Greater Cairo and New Cairo Internal MM Bus Networks	Mwasalat Misr	2019
Kampala Intracity Transit Map	KCCA/AFD	2020
Green Line 3 Signage & LRT Maps	RDMC	2022
Lusaka Transit Map	WRI/AFD	2024
Riyadh Bus Network Pilot Project	RATP Dev	2025
Cairo Monorail Multimodal Maps	Orascom & Arab Contractors JV	On-going

Transport
for Cairo



مواصلات
للقاهرة

CONTACT

info@transportforcairo.com

4 Road (Borg Reham), 160 Rd, Maadi, Cairo, Egypt 11728