

Addis Ababa mobility challenges, actions taken to address the challenges and plan



November 2018



Transformative
Urban Mobility
INITIATIVE



ITDP
Institute for Transportation
& Development Policy



Walking and cycling challenges

- Lack of walkways & cycle tracks on major streets
- Inadequate walkway width
- Poor maintenance



Design flaws hinder use of newly built facilities



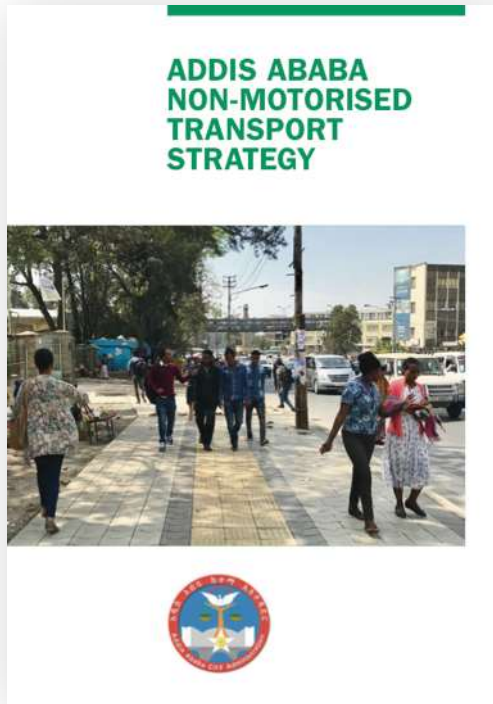
Over sized intersections
& lack of safe crossing



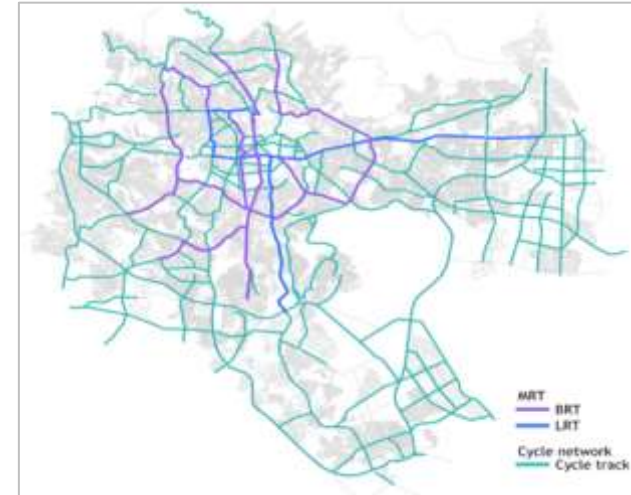
- Parking on footpaths
- Low parking fees
- Unregulated vending



Addis Ababa NMT Strategy: 10-year goals



High-quality pedestrian realm on 600 km of streets



Physically separated cycle tracks on 300 km of streets



10,000 shared bicycles integrated with public transport

Arat Kilo: Before



Arat Kilo: After



Footpath program status:

- ✓ 22 km of footpaths upgraded in 2018
- ✓ 50 km of footpaths to be improved in 2019



➤ Building a world-class walking & cycling environment in Addis Ababa

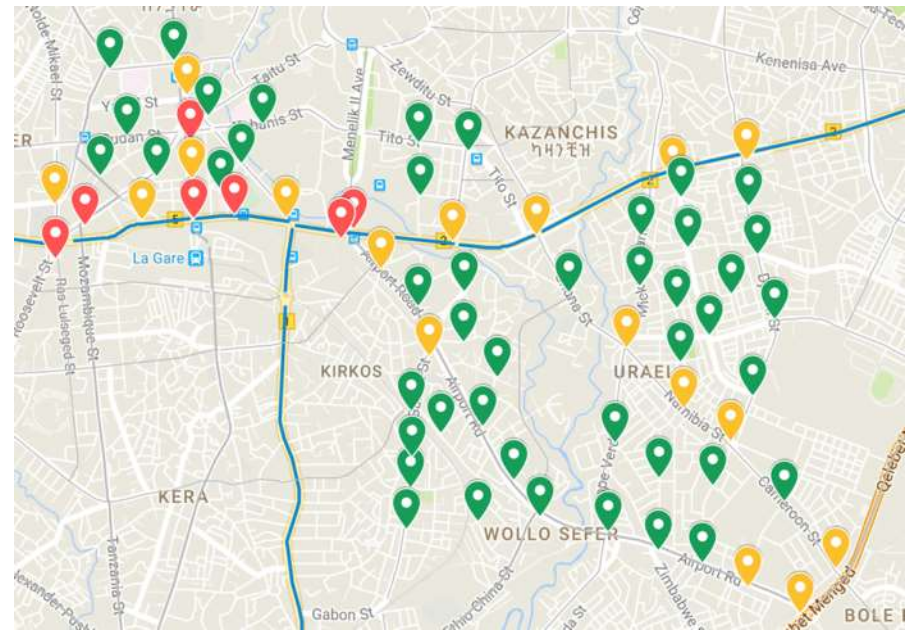


➤ Merakato areas improvement (pedestrianisation) study

- ✓ No objection on technical proposal from the world bank
- ✓ Financial proposal is under evaluation

Addis Ababa bicycle sharing system

- 500 cycles
- 70 stations
- 8 sq km phase 1 coverage area
 - Churchill
 - Mexico
 - Meskel Square
 - Bole
 - Urael/Atlas



- Small station
- Medium Station
- Large station
- LRT

Objectives of bicycle sharing

- Serve short trips in central Addis Ababa
- Improve last-mile connectivity to LRT stations, bus terminals, and public taxi stops
- Increase the mode share of cycling
- Transform the image of cycling
- Promote the use of active transport, helping to improve public health
- Reduce congestion and improve air quality



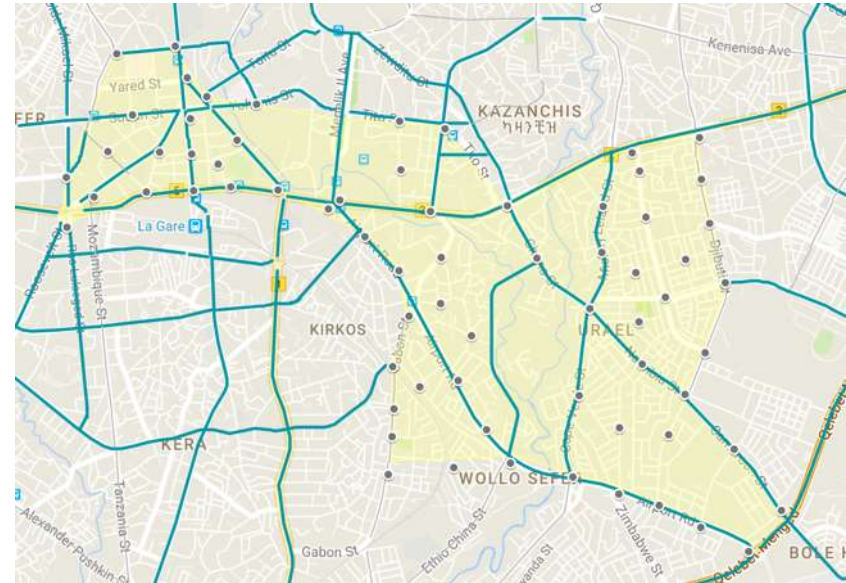
Inclusive bicycle sharing for Addis Ababa

- Low user fee: ETB 60 (USD 2.18) per month
- Multiple forms of payment accepted: no requirement for credit card or smartphone
- Lightweight cycle with step-through frame
- Outreach programs to encourage ridership among women



Cycle facilities

- Protected cycle lanes on major roads (≥ 2 lanes per direction) in the bikeshare coverage area
- Mandatory physical separation from the carriageway
- Implementation of pilot stretch by early 2019



promote public transport and improve level of service

- Challenges

- Demand >>> SUPPLY
- low service quality
- inadequate infrastructure and facilities (as compared #buses)
- Poor maintenance services
- Inadequate fuel station, parking space
- operation is not well managed and integrated



What is done so far to promote public transport and improve service level

- the Implementation of Institutional and Policy Reform in the Provision of public Transport
- Anbsa city bus signed contract with supplier to procure 700 buses
- ITS: ITS based public transport operation management (dispatching, real-time scheduling, operational monitoring, emergencies, query statistics, operational decisions, operational security and user rights)
 - Inception Report submitted by consultant
- Supply and installation of 750 stations
- Public transport Fare integration system study (Progress : 92%)
- 50 double Decker bus and 50 students bus have already procured
- Intelligent transportation systems requirements for public transport vehicle operation standards
- urban public Transportation Fare collection system standard



What are we Doing ?....cont'd



Project 1: Merkato intercity terminal design-build

description

- Area : 4,125 sqkm
- Size: can serve 30 buses and 6000 passenger at the same time



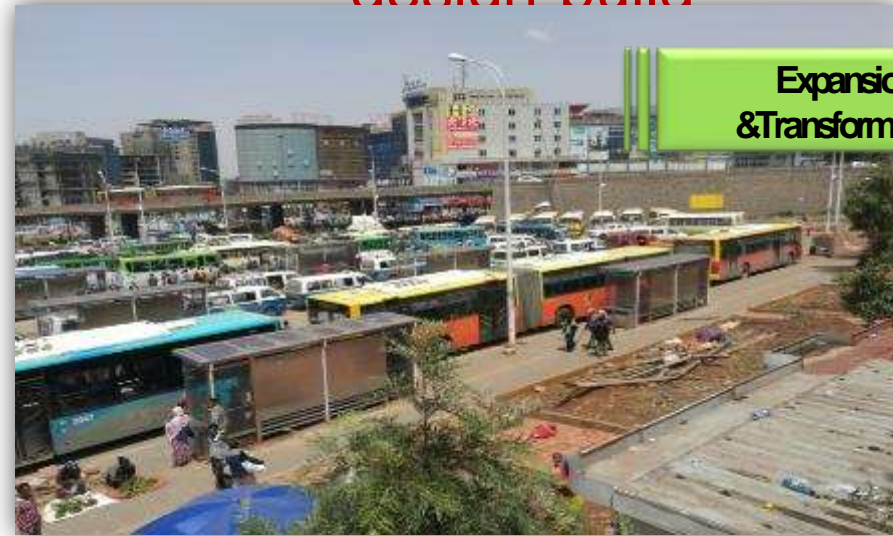
activities

- Sub-structure ... 100%
- Superstructure) ... 55%
- Design work - 100%
- Sanitary lines work- 100%
- Overall performance= 41%





Project 2: Megenga intermodal hubs design-build



Expansion
& Transformation



description

- ✓ Area : 11,790 sqkm
- ✓ Building type : B+G+6
- ✓ Preventive maintenance service
- ✓ Mall
- ✓ Administrative office and meeting hall
- ✓ Restaurants and leisure activities

Overall performance = 22%



Project 3: Yeka bus depot design-build



Expansion & Transformation



description

- ✓ Area : 100,000 sqkm
- ✓ Size : 800 buses (G+3 building parking)
- ✓ 12 bus washing machines
- ✓ 12 fuel stations
- ✓ 50 buses Can be maintained at the same time
- ✓ 2B+G+7 has administrate offices and shopping mall

progress

- Pre-qualification document prepared
 - Environmental and social impact assessment Final Inception Report
- Performance = 8.5%



Project 4:- Shegole bus depots design -build



description

- ✓ Area: 53, 000 sqkm
- ✓ Size: 250 buses

activities

- ✓ Maintenance center—98%
 - ✓ Administrative building—70%
 - ✓ Fuel station—95%
 - ✓ Bus washing station—96%
 - ✓ Site work -----96%
- Overall performance = 89%





Project 5: Kality bus depot design-build



Description

Area: 53,700 sqkm

Size: 300 buses

Overall performance = 79%





project 6: Shegole and Kality bus depots , machineries, tools and equipments procurement



Progress
contract signed with
Supplier

Overall performance= 14%





Public transport planned... Cont'd



Fare collection equipment standards

- ToR prepared



2. Bus depot management system standard

- TOR prepared



3. Service standard for public transport

- ToR prepared





Public transport planned -----**BRT Project**

- As per 2011 prefeasibility study 7 BRT corridors are identified for the first phase implementation. of these lines:
 - BRT B2 corridor(pilot) under procurement
 - B4 and B5 corridors under preliminary designs
 - BRT B6 corridor under financing and about to start feasibility study





traffic safety and flow improvement



Challenges

- Road safety (395 in 2016, 463 in 2017 and 477 in 2018)
- Congestion
- Air and noise pollution

What has been done so far

- Megenga smart(90 cars) and surface parking(45 cars)
- Anwar mosque smart(80 cars) and surface parking(45 cars)
- 2500 bollards installation
- Engineering design ,simulation and modeling software procurement & training(staffs, Students, consultants and contractors)
- Safer street design training (staffs, Students, consultants contractors)
- pedestrian signalisation
- pedestrian walkway and urban street standard
- vehicle parking control equipment standard
- Under Ground Parking standard
- on- street parking standard
- Road furniture standards
- Traffic sign standard



Traffic safety and flow improvement ,What has been done

....cont'd

Road safety awareness creation campaign and enforcement

➤ Speed control

- Awareness creation
- Speed limit setting
- Enforcement (speed gun, traffic calming measure (14))

➤ Anti drunk and drive

- Awareness creation
- Alcohol tester
- Enforcement





Traffic safety and flow improvement ,What has been done

- safe intersection improvement (15 projects)

- **Legare intersection** improvement

- no death over the last 6 months
- Serious injuries reduced by 50%





Traffic safety and flow improvement ,What has been done



....cont'd

- Traffic accident registration template approval by city traffic police commission

to enhance traffic accident data management system



Traffic safety equipment (helmet, safety belt) code of practice



Traffic safety and flow improvement, What are we doing



Project I:-Churchill Surface parking



description

Area = 3,706 sqkm

Size = 60 cars

Overall performance = 75%





Project 2 : Parking Building design -build



Progress

- ✓ Architectural design approved
- ✓ Soil investigation is conducted
- ✓ etc

Overall performance = 5%

Description

- Area3,940 sqkm
- SizeI,000 cars





Project 3: Lideta underground parking and public space design and build



Description

- ✓ AreaII,I80 sqkm
- ✓ Size950 cars
- ✓ Building type = 4B



Progress

- Contract signed with contractor





Project 4: Arada Smart parking supply and installation project

Project description

Size = $20 \times 4 = 80$ cars

Overall performance = 15%





Progress

- ✓ Architectural design approved
- ✓ engineering work 90%
- ✓ Soil investigation
- ✓ Interior design and construction materials specification prepared
- ✓ Bid floated and technical proposal evaluated

Overall performance = 5%

Description

- ✓ Area5,965 sqkm
- ✓ Building type and size.....3B+G+21
- ✓ Restaurants ∓ GYM∓ library∓ transport exhibition center ∓ training and meeting





Project 6: ITS based integrated Traffic Management center design - build



Progress

- ✓ Architectural design approved
- ✓ Engineering works 90%
- ✓ Soil investigation
- ✓ Interior design and construction materials specification prepared
- ✓ Bid floated and technical proposal evaluated
 - ✓ Consultant submits Inception Report

Overall performance = 3%



Description

- ✓ Area4,000 kmsq
- ✓ Building type and size = 4B



Traffic safety and flow improvement, What is planned

- Four intersection identified for improvement for fiscal year 2019
- development of urban mobility master plan(TOR prepared)
- Supply and Installation of Radio Communication System for city traffic police
 - under procurement
- Drainage Master Plan(TOR prepared)
- Way finding standard (TOR prepared)
- Road safety audit for existing roads and roads under construction
 - report compiled and sent to implementer (AACRA)
- Road safety inspection has been done
 - road safety inspection has been conducted(for 300kms) and first draft report produced
- Signalization of intersection
- PAS(Principal Arterial Street) SAS(Sub-Arterial Street)speed limit and setting studies
- Pedestrian crossing improvement project
- Fatal crash hot spot identification and mapping(5/year)
 - Prioritization, design and implementation and M&E



Traffic safety and flow improvement, What is planned... cont'd

- **Project 1: Traffic management study, design, and ITS solutions supply and installation**
 - ✓ Technical proposal sent for world bank for no objection
- **Project 2: Integrated parking management strategy and programs**
 - ✓ Consultant submits Inception Report
- **Project 3: Merakato areas improvement (**pedestrianisation**) study**
 - ✓ No objection on technical proposal from the world bank
 - ✓ Financial proposal is under evaluation



Traffic safety and flow improvement, What is planned... cont'd



Freight consolidation center standards

- ToR

Freight terminal standards

- ToR



Fuel station standards

- ToR prepared



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Amesegeenalehu