



# E-mobility roadmap for Dar es Salaam

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# Institute for Transportation & Development Policy



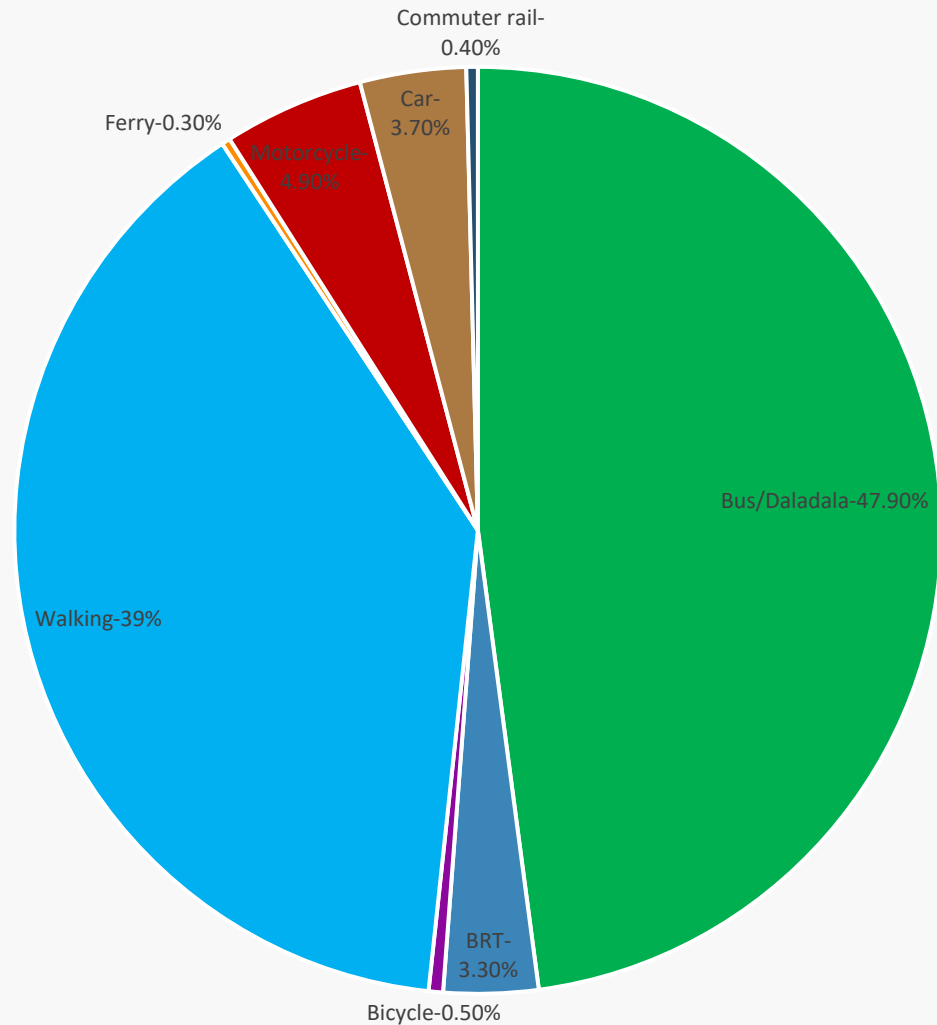
Promoting equitable and sustainable transport worldwide.

Where are we now?

- Geographical area of ~1,500km<sup>2</sup>
- City population estimated at 5.4million
- Electricity access in urban areas is approximately 73%



- More than 50% use motorized transport





# BRT system in Dar es Salaam

Total number of buses-  
3,285

Ridership-3,901,496  
residents in a daily bases

	Distance(km)	No.buses	Expected ridership once it open
Phase 1	20.9	770	873,810
Phase 2	20.3	715	1,208,199
Phase 3	23.6	675	887,551
Phase 4	30.1	590	698000
Phase 5	26.0	430	889000
Phase 6	33.5	105	233,936
<b>TOTAL</b>	<b>154.4</b>	<b>3,285</b>	<b>3,901,496</b>

# Mobility context in Dar Es Salaam

- Transport master plan advocate for transport systems which are efficiency, inclusive, affordable and environment friendly
- Transport and energy as leading mitigation sectors-NDC
- No e-mobility policy in place
- No e-vehicles charging masterplan in place

# E-mobility initiatives





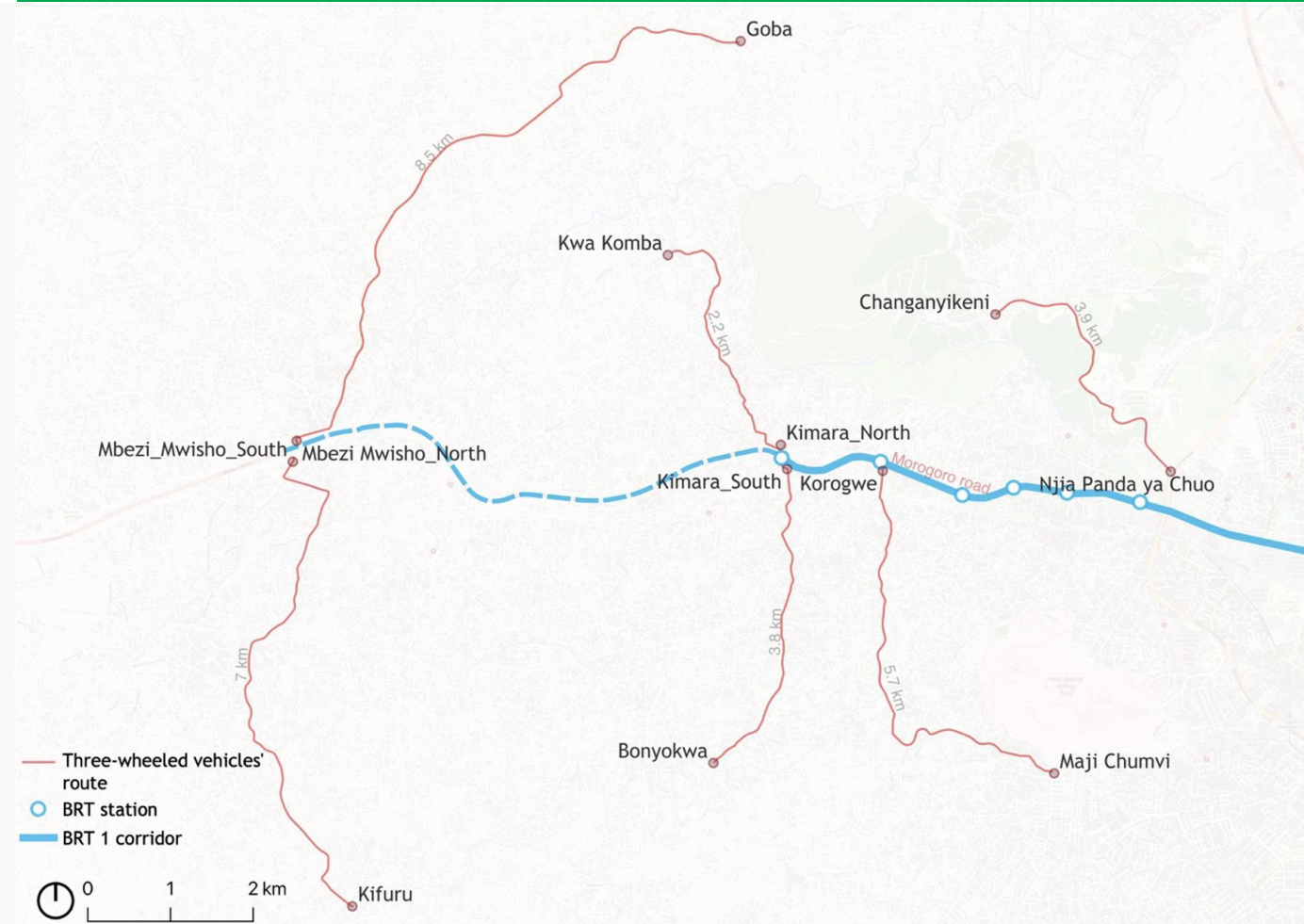
- UEMI for SOLUTIONplus financed the e-bikes project in 2022
- 16 e-bikes and 5 extra batteries were imported
- UEMI with support from ITDP is conducting a pre-feasibility study to scale-up e-bikes for urban deliveries



- 2 start-ups received seed funding
- SESCOM- assembling 3 vehicles
- Auto-Track-assembling 2 vehicles and retrofitting 1



- A new solution plus call for e-bajajs
- 50,000 euros will be offered to procure e-3Ws(bajajs)
- 14 companies applied



# E-mobility initiatives(e-buses)



- Roadmap for e-buses by DART
- UNEP-study on BRT electrification(ongoing)
- UN Habitat-policies to support electric mobility in Tanzania(ongoing)

# Opportunities for scaling up the initiatives

## E-3Ws(bajajs)



### Market barriers;

- Start-up costs
- Lack of public awareness
- Lack of charging infrastructure

### Opportunities

- A number of emerging local companies/start-up
- Institutional framework
- National framework for deploying and scaling up electric mobility

# Opportunities for deploying the e-buses



- Tanzania is rich on natural gases; Compassion Natural Gas(CNG) buses
- E-buses; On-going power generation projects ie Mwalimu Nyerere(2115MW), Shinyanga jua etc
- Charging; Phase 2 depot has dedicated space for charging
- Providing space for charging in the new depot for BRT phase 1

# Opportunities for E-bikes for deliveries



- SOLUTIONplus feasibility study to scale-up e-bikes for urban deliveries in Dar
- Demand; Apart from FASTA, there are number of emerging companies/individuals into business



- Import duty of 25%, expect horse tractors and trailers which attract 10%
- Clearance Processing Fees(CPF) 0.6% of CIF value
- Value Added Tax(VAT) is 18%
- Import duty for motorbikes 15%
- Excise duty 5% of the sum of CIF-vehicles exceeding 1000cc but not exceeding 1999cc and 10% for passenger vehicles with a carrying capacity of less than 10 passengers

Reduce import duty,  
VAT AND CPF to e-  
vehicles

Reduce import duty for  
e-motobikes

# Other measures



- Government should provide incentive to companies manufacturing and assembling electric three-wheeled vehicles
- Rent-free land for charging stations (This should be applied to land owned by the government)
- Reviewing the urban planning standards and regulations to accommodate places/points for charging and batteries disposal

Dorica Mugusi ([dorica.mugusi@itdp.org](mailto:dorica.mugusi@itdp.org))

    [itdpafrica](#)