



#### The Process

- Design, tender and construction of a storage garage done by Singra's engineers
- Vehicle requirement design and tendering - locally and from abroad, including technical assessment
- → Mapping and route setting for e-rickshaw operation
- Fair & transparent selection of drivers with an accompanying a safety training program
- Joint design of operation model of public transport and emergency vehicle system
- Throughout the whole process, the TUMI Team together with GIZ EnDev colleagues in Bangladesh advised and supported the project to achieve maximum impact, facilitated by ICLEI.
- ICLEI and GIZ Bangladesh were actively supporting during construction, vehicle selection, local manufacturing, and advised on the electrical/ charging infrastructure.

## COVID-19 Response

- Emergency mobile COVID-19 testing facilities
- → Food security using e-rickshaws for home food deliveries
- Mobile information campaign (speakers on e-rickshaws): informing all citizens about dangers and prevention to stop the spread of Coronavirus



## **Outcomes/Impacts**

- First public transport route in Singra was established, for citizens who live in areas previously underserved by the private rickshaw operators
- Provision of emergency medical transport services in all areas of the city was established
- Ten drivers have been employed through the city on a permanent basis (salary/incentive model)
- Driver safety training for ten drivers through BRAC (a local NGO)
- Strengthening local production of electric vehicles through purchase local company (4 of 10 vehicles)
- Construction of a garage to safely park and maintain e-rickshaws and charging infrastructure
- Singra Municipality received the Urban Resilience Award for its works on e-mobility by ICCCAD in October 2019













## Implemented by:





## On behalf and funded by



## Status

October 2020

## Major Challenges & Key Lessons Learned

The pilot phase has provided evidence that some minor adaptations will have to be made for the project to ensure viable, long-term success. Examples of this would include the purchase of higher quality batteries (lithium-ion) as well as additional driver training.

It should also be considered to increase the number of vehicles to optimize the system and increase the viability of the project as a whole.

Singra Municipality had no previous experience in working with GIZ or in the field of sustainable transport/mobility or electric vehicles. Basic knowledge and technical knowledge had to be built up to allow the project to be a success.

# **Potential for Scaling** & Replicability

Based on the available data after COVID, 6% of all trips taken in Singra were using the TUMI e-rickshaws. This shows that such an approach has the potential to be scaled within the city to ensure safe, fair and transparent mobility options for all citizens. Following the spread of the COVID-19 pandemic, adaptations had to be made, and the project showed remarkable flexibility and resilience.

With the newly gathered experience, the Singra Municipality now has an understanding and knowledge in interacting with international partners, preparing the ground to intensify cooperation and to initiate new partnerships and sharing this knowledge with others.



TUMI is the leading global implementation initiative on sustinable urban mobility formed through the union of 11 prestigious partners.

More here: transformative-mobility.org