

# FACTSHEET HANOI



## Demonstration City | Hanoi - Vietnam

Hanoi city has the current bus network with 127 routes, including 100 subsidized routes, 10 non-subsidized routes, 12 adjacent routes, 2 City tour routes. The bus network covers 34 districts, towns and serves 453/584 communes, wards and towns, reaching 78%; 66/71 hospitals, reaching 93%; 296/708 junior and senior high schools account for 42%; 32/37 industrial zones, accounting for 86%; 82/85 new urban areas, accounting for 96%. In particular, public passenger transport continued to grow, the total volume of public passenger transport throughout the City in 2019 was estimated at 948.5 million passengers, of which buses reached 510.5 million. the number of passengers, meeting 17.03% of the travel needs of the people, increasing by 3.2% compared to 2017. In addition, the urban railway system, BRT bus is also actively implemented and brings certain effects. These results have partly met the travel needs of the people, reduced the number of personal vehicles moving into the inner city, contributing to reducing traffic congestion in the City.

Currently there are 5.3 million gasoline motorcycles per day and this number is increasing rapidly every year, at 10% per year. Forecast has shown that, by 2030, there will be 7.5 million motorcycles, 1 million cars running every day in the city. As a result, air pollution is one of the main problems the city is facing. According to the GreenID report, annual average air pollution in Hanoi in 2017 was four times higher than those deemed acceptable by the World Health Organization's air quality guidelines. Therefore, there is an urgent need to deploy cleaner transportation solutions to the city to improve the air quality. E-mobility solutions are crucial to improve the air quality and sustainable development for the city.

### Demo Description: Hanoi e-mobility for last-mile connectivity



Hanoi e-mobility for last-mile connectivity: The demonstration project will focus on boosting the ridership and effectiveness of the currently running BRT and the forthcoming metro rail. The project will be a win-win for both public transport and e mobility. A technical support team will design and develop vehicles that are tailored for the local context and operated under the oversight of the local public transport operator and the city of Hanoi.



#### Activities

Smart services, fleet bundling, E-scooter GPS positioning that support eco-routing will also be part of the project (SOL+ MaaS App). The demonstration project will have a high potential to not only make emobility attractive but also reduce the GHG emissions from transport and increase the share of public transport use.

The demonstration will be conducted in phases. For the first phase, there will be a trail with 50 shared e-scooter to test the sharing system to facilitate the traveling from BRT stop to a shopping mall and vice versa. There will be periodically assessment on the system to see what is good, what needs to be improved for the better pilot. After that the sharing system will be replicated to other locations in the city, probably connecting the Metro terminal with residential areas.

**Test category:** The demonstration of e-mobility solutions for last-mile connectivity will involve simulations, tests in controlled environments, and testing under real operational conditions. These technologies will be assessed as part of the activities.

**Vehicles involved:** 50 E-scooter

**Integration with PT system:**

- Bus
- BRT
- Metro/ Light rail

**Stops involved:** Tentatively 2-4 stops: Aeon Mall - BRT Van Khe  
**Time span:** June to December 2021

