



Urban Pathways

Pasig

Urban Pathways has been working with the City of Pasig, a highly urbanized city in Metro Manila, Philippines since 2019. Together with local partners in the city, project concepts on sustainable mobility (mainly e-mobility and charging infrastructure) has been developed. The uptake of e-mobility in the country (and the city) has been slow, considering the fact that there have been several initiatives in the last decade to promote the adoption of e-mobility. Systems-based innovations that bring together new technological concepts with business models centered around local empowerment are much needed in the city. The project also aims to strengthen local capacities in relation to the different aspects of e-mobility. Moreover, Urban Pathways plans to continue supporting Pasig on public EV charging infrastructure.

Pilot and Demonstration Action

Locally Developed/Assembled E-Cargo Quadricycles

Urban Pathways has developed a demonstration project concept in Pasig on E-Cargo Quadricycles. It will focus on integrated and shared urban logistics solutions, as well as investigate the potential for public charging solutions. The activities on-the-ground will also include those that aim at improving the enabling conditions for e-mobility, and enhancing local capacities related to e-mobility. Locally appropriate solutions addressing urban logistics are deemed to be quite important, as conventional vehicles that are currently being used are not particularly effective in conducting efficient movements considering the local conditions in the urban areas. The demonstration project will aim at producing and testing urban cargo quadricycles that are suited to the local conditions and can potentially transform how urban deliveries are done in the country. A “shared vehicle use” concept will be investigated for feasibility in the pilot project. This concept would center on the shared use system that would feature the use of the vehicles by PHLPost during the normal delivery hours of the day, and the conduct of last-mile deliveries for the Pasig City public market during the early hours of the morning (e.g. 3 am to 5 am).

The proposed demonstration project concept was submitted on 25 April 2019 as a part of EC H2020 proposal for funding. It is being implemented by SOLUTIONSplus project (project duration 01/2020 – 12/2023) together with Pasig City Government and Philippines Postal Corporation – Pasig branch (PHLPost Pasig).

Budget: 1,500,000 EUR

Estimated direct GHG emissions reduction: 13 tCO₂/year

Outlook: Planned and/or Possible Future Action

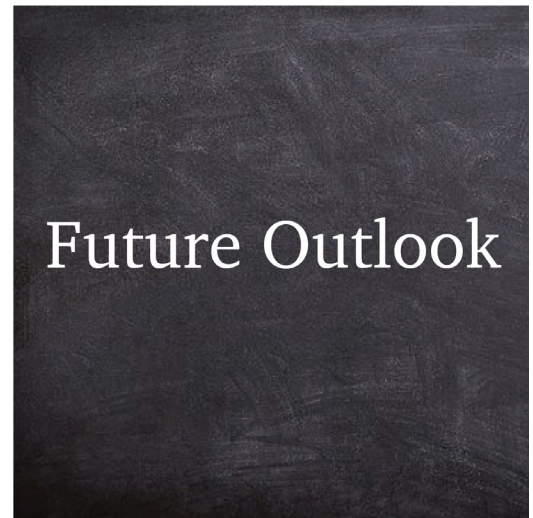
EV charging as a public space and commercial area component

One of the key components for the mainstreaming of e-mobility in Pasig is the identification of appropriate location and installation of EV charging facilities. These locations are selected based on a set of various criteria including roads hierarchy, the intensity of traffic flow, residential densities and availability of space. On one hand the charging location can emerge in attractive locations and can stimulate development of a specific area through attracting different transport operators or stimulating trading activities.

On the other hand, the required space and increased movement resulting from installation of EV facilities may not be incentivized in specific residential zones. In order to off-set the negative aspects of the construction and capitalize on its potentials the project includes a demonstration intervention, in which EV charging facilities will be developed. It will be realized as a component of visually attractive and multifunctional public/ commercial space including urban greenery, small architecture and landscaping measures.

Based on the pre-selected list of locations identified by City of Pasig in collaboration with the Technical University of Berlin a specific location with high commercial and design potential will be selected for the intervention. Except of immediate spatial intervention the project will also define long-term vision for the development of the surrounding space and liaise with private sector investors to secure space and leverage potential co-funding opportunities.

Budget: 35,000 EUR



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