

on the basis of a decision

by the German Bundestag









Bogota's zero emission vehicle and operational models

The city is implementing four operations models to assess the performance of zero-emission vehicles for last-mile distribution in different city zones with challenges of air quality and GHG emission reduction.



Colombia

Bogotá DC, Cundinamarca



1.775 km²
Total Area



7.834.167 (Bogotá District Planning Secretariat)
Estimated Population in 2022

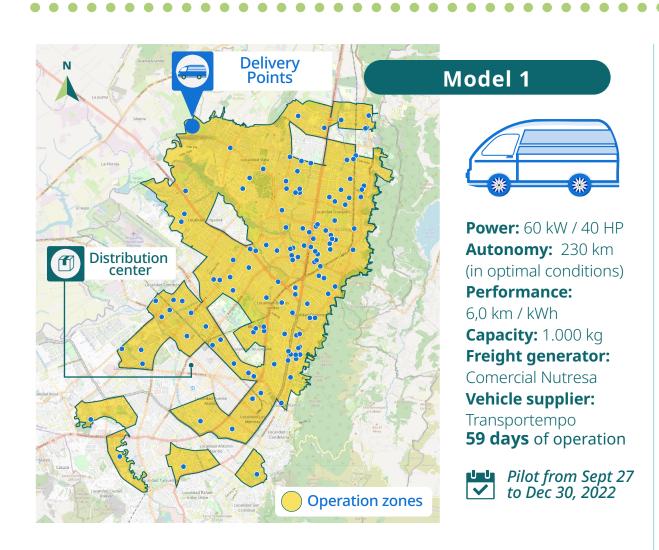
\$

28,5 billion COP
Municipal Budget

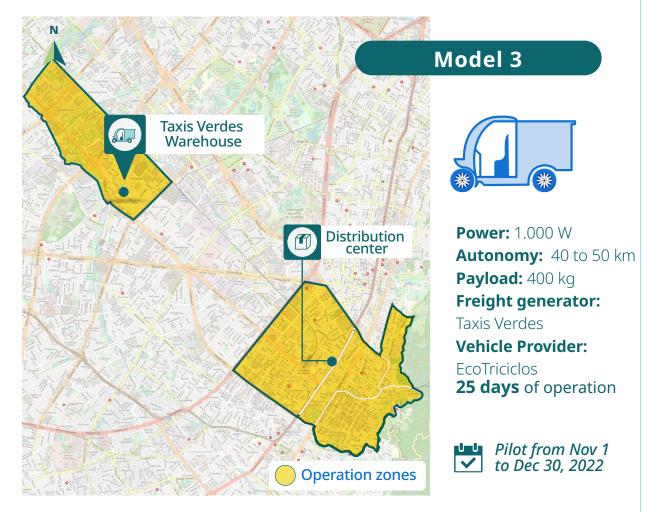
www.bogota.gov.co

This project generated relevant information for decision-makers on which type of vehicle is best suited for different operational and geographic conditions. Therefore, it showed areas of the city in which electric vehicles are efficient for freoght and distribution operations.

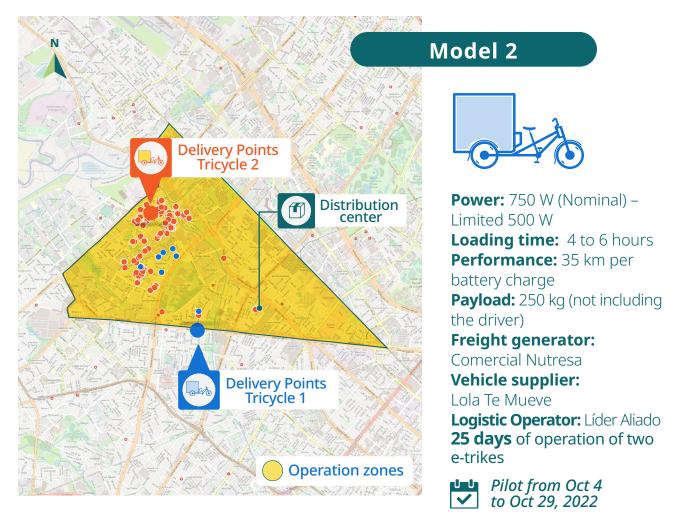
The analysis of the four models as a whole allows a comparative evaluation between different types of vehicles under different geographic and operational conditions.



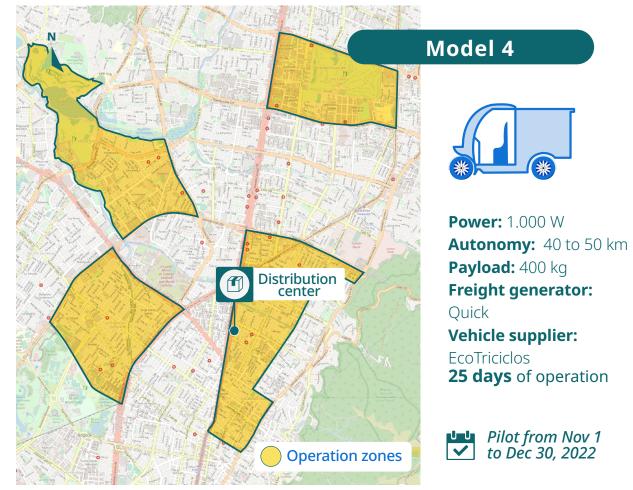
Model 1, one diesel combustion truck, was replaced by one electric van, delivering packaged food throughout the city from a distribution center in Puente Aranda, which is one of the city districts with air quality problems and high industrial activity.



Model 3, one gasoline-powered motor truck, was replaced by one electric three-wheeler distributing and collecting goods, mainly parcels.



Model 2, one gasoline-powered van was replaced by two electro-assisted tricycles delivering packaged food throughout an area that does not exceed a 3 km radius of operation.



Model 4, two gasoline-powered motorcycles were replaced by one electric three-wheeler, distributing medical devices in a specific area of operation. This model allows assessing the possible trade-offs between electric vehicles with higher load capacity versus low autonomy ones.

Partners













Results*

Impact

EcoLogistics Low carbon freight for sustainable cities

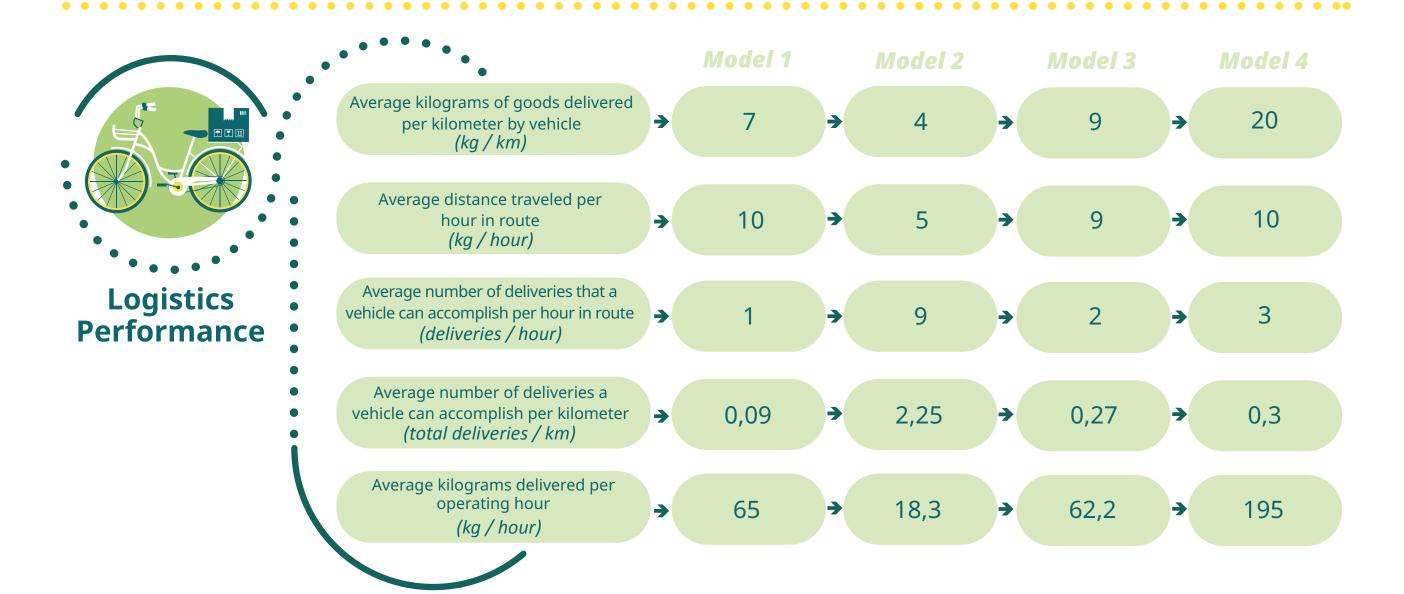
Federal Ministry for Economic Affairs and Climate Action

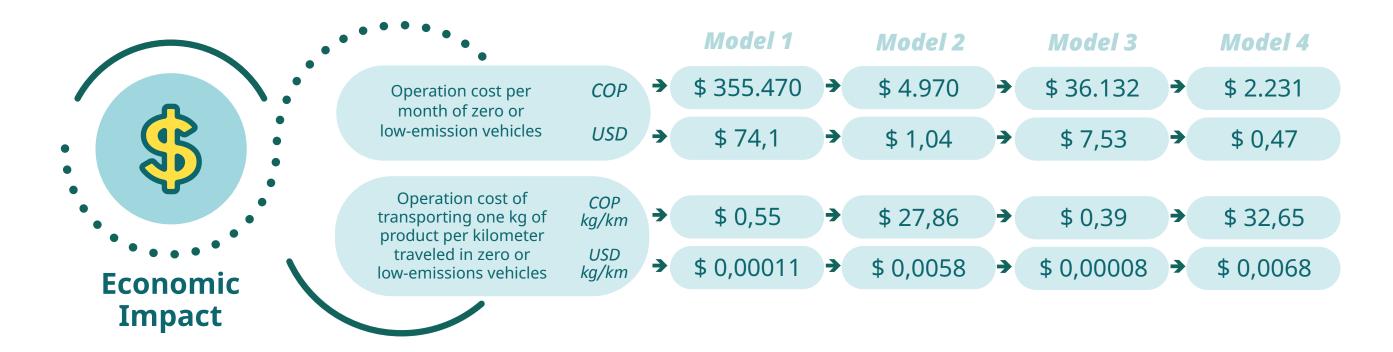
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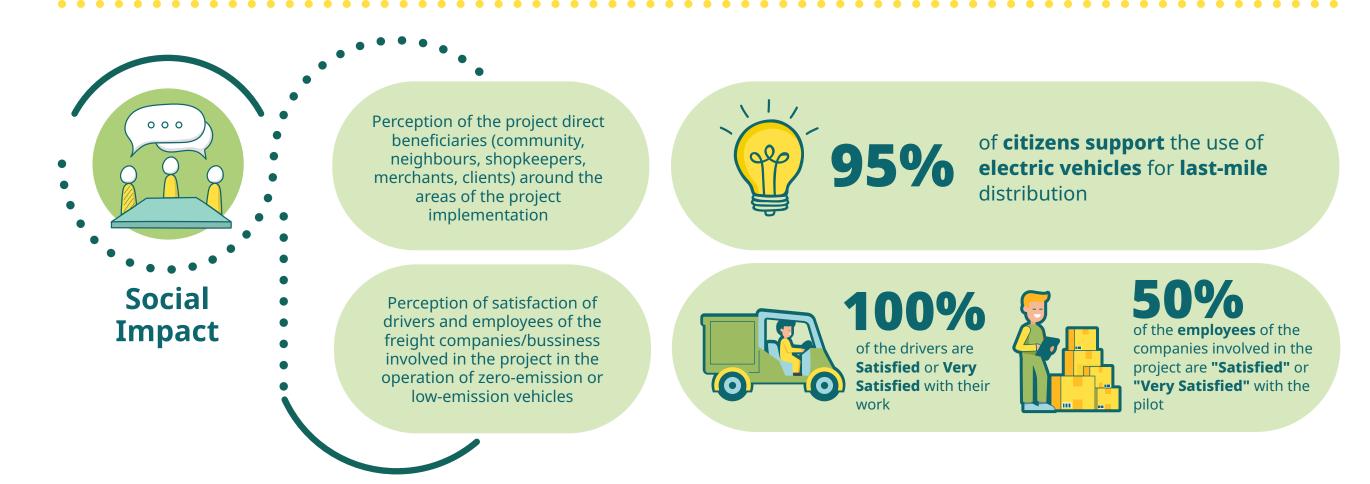


Local Governments for Sustainability









* The results reported here were obtained on the dates on page 1 for each model and refer to the total number of operational days on which these models were performed











