

PROJECT: REGEN -A data & simulation dRiven platform for sizing and analyzing the EnerGy Performance of Electric buses in urban transit Networks

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DURATION (MONTHS): 12 months

DEPARTMENT: Department of Infrastructure and Rural Development

FINANCIER: MINISTRIES - NATIONAL RECOVERY AND RESILIENCE PLAN
(RESEARCH EXCELLENCE PARTNERSHIPS)

DESCRIPTION: The aim of the REGEN project is to address the challenges related to the electrification of a bus fleet by developing an innovative decision support system that supports deployment decisions, documents feasibility and assesses the applicability of electric busses in urban transport networks. The system will be based both on the analysis of available historical data on the operation and energy consumption of electric busses and on a detailed simulation of their operation. By developing the system, the project aims to efficiently support the planning and implementation of the electrification of bus fleets and thus contribute to the reduction of greenhouse gas emissions and the improvement of air quality in urban areas.