

# SPINE

**Project duration: January 2023 – December 2026**



SPINE's vision is to accelerate the progress towards climate neutrality by reinforcing Public Transport systems through their smart integration with new mobility services, sharing schemes, active transport modes, and micromobility. SPINE adopts an equity-centred design-thinking approach, leading the transition to a more efficient, sustainable, resilient, and inclusive Public Transport system. A network of collaborative Living Labs is developed to foster transferability, while an intersectional view of the transport system users is applied. Four Lead City Living Labs (LLs) in Antwerp, Bologna, Tallin and Las Palmas will be established, and a series of co-creation activities will take place where multiple stakeholders will be actively engaged in the development and demonstration of efficient, replicable, and socially acceptable innovative mobility solutions, advancing existing assets.

The SPINE approach involves the creation of: (a) innovative simulation and Digital Twinning (DT) tools, along with open data and behavioural models, that will allow the building of scenarios combining different mobility interventions (push and pull measures along with supporting policies) and the implementation of the most promising ones; (b) data-driven

impact assessment models that will foster the twinning, transferability and adaptation of the successful solutions of the four LLs in seven Twinning Cities – Barreiro, Valladolid, Zilina, Sibenik, Heraklion, Gdynia and Rouen. SPINE sets a high ambitious plan for the co-design and implementation of 55 smart greens inclusive mobility solutions.

The SPINE consortium brings together a multidisciplinary team of 39 partners from 16 countries. The unique mix of experienced transport engineers, Public transport Operators, computer scientists, data analysts, transport modelers, social scientists, urban planners, policy analysts, software providers, within our consortium assures the comprehensive approach to the challenges, scope, expected impact and the successful delivery of the project.