

ReGreenation – The next generation of green, resilient and socially inclusive smart cities

Summary

Regenerated, rehabilitated, climate-proofed, resilient, environmentally, socially and economically upgraded built environment → The results from Objective 3 (social engagement) and Objective 4 (digital tools) within the nine cities of Objective 1 will allow the application of a multi-disciplinary approach to facilitate the upgrading of urban areas as people-empowered nature-based locations. By the robust impact assessment provided by Objective 2, this upgrading will be demonstrated from the social, environmental, climate change resilience and economic perspectives

Particular areas such as large estate social housing districts, deprived districts and neighbourhoods, neglected or abandoned areas, derelict industrial sites, brownfields or other dysfunctional urban sites → In the lead cities: 1) Bucharest - Brownfields within residential areas; 2) Alverca - Public-private collaboration for dysfunctional urban sites and to be renovated commercial area; 3) Paris - ex industrial site next to social housing; 4) Barcelona - Lacking green spaces superblock. In the replicators 1) Ljubljana - Illegal individual moorings in the riverside; 2) Rome - Lack of green public spaces and high-density population area; 3) Lappeenranta - Several excess soil land-fill sites with poor recreational choices; 4) Ghent i) Renovation of older housing neighbourhood with hardly place for trees and robust plants, ii) Renovation of a former industrial site currently a brownfield; 5) Segrate i) Depaving of a totally sealed road surface, ii) central park renovation.

Improved liveability, functionality, quality of life and social cohesiveness of the urban areas. Increased social awareness about urban climate-related vulnerabilities. Integrated, transdisciplinary, adaptive, transparent and participative urban planning practices and decision-making processes. → Objective 3, and expected results 3.1, 3.3 and 3.5, focus on the definition of the local climate situations (and evolution) and on the awareness of citizens and city users in improving quality of life throughout direct participation in planning and designing public spaces. Participatory Workshops will be facilitated throughout the project in each site to collect inhabitants' input and empower them to embrace change. All lead cities will implement participative activities to engage citizens and local actors in the decision-making processes related to their districts' regeneration. All cities are currently improving or will improve their existing co-creation platforms, from the most mature ones, i.e. Paris and Barcelona, to the regular actions taken by Alverca and Bucharest, to be more inclusive, transparent and citizen feedback oriented.

Innovative methods, digital tools and data-driven models enabling identification, prioritisation and visualisation of place-based holistic solutions and scenario analysis. → Objective 4 is oriented to build a set of digital tools, based on an interoperability system, able to standardise data from different regions to allow seamless data finding and management. The digital twin, able to accommodate the services and visualisation tools needed for the different urban areas to be analysed, is a very innovative solution that offers scenario-based solutions.

EU sectorial and urban/region cross-scalar planning for climate mitigation, adaptation and neutrality at both city and region level → Stated that urban greening and NBS application are some of the key actions of EU climate adaptation toward climate neutrality, and according to the Ecological Network implementation at the local scale (that EU is pushing since decades), the project aims to compare planning frameworks from different EU countries and to find cross-scalar common planning and design actions to improve urban green and blue infrastructures.

Contribution, as appropriate, to the implementation of the European Green Deal, the Climate-neutral and smart cities Mission, etc. → Special effort is planned for the establishment of liaisons and formal collaboration with the European platforms and CSAs indicated in the call of this proposal. All nine cities involved in the project are signatories of the Covenant of Mayors, so the project results can be shared in the annual conference. Bucharest, Ljubljana and Rome are members of the CIVITAS initiative. The 15-minute-city framework used for this project is one of the urban approaches acknowledged by the European Green Deal. IAE – Chaire ETI and C40 are co-founders of the Global Observatory of Sustainable Proximities (together with UCLG and UN-Habitat), and Segrate presented the RENergetic project (a scientific reference of ReGreenation) in COP26 and will repeat in COP28-COP29.



Figure 1. Malvarosa



Project Reference

Grant agreement ID: 101139636

Leading Institution

INETUM (France)

Partners

INETUM España S.A. (Spain), Inst Administration Entreprises Paris (France), Nhood Services Romania Srl (Romania), IST-ID Associação do Instituto Superior Técnico para a Investigação e e Desenvolvimento (Portugal), Município de Vila Franca de Xira (Portugal), Foreningen C40 Cities Climate Leadership Denmark (Denmark), Ville de Paris (France), Ajuntament de Barcelona (Spain), Stichting Placemaking Europe (Netherlands), Primăria Sectorului 2 București (Romania), Administrația Domeniului Public Sector 2 (Romania), Asociația Climato Sfera (Romania), Universitatea Tehnică de Construcții București (Romania), Ove Arup & Partners Ireland Limited (Ireland), Asociația Institutul de Dezvoltare Locală Think Global Act Local (Romania), Stad Gent (Belgium), Viaverda (Belgium), Comune di Segrate (Italy), Università degli Studi di Pavia (Italy), Mestna občina Ljubljana (Slovenia), Lappeenrannan kaupunki (Finland), Roma Capitale (Italy), Digiotech OU (Estonia), NHOOD Services Portugal S.A. (Portugal), Glorious Marathon S.A. (Portugal), Institut Municipal d'Urbanisme (Spain)

CERIS Principal Investigator

João Abreu e Silva
joao.abreu.silva@tecnico.ulisboa.pt

CERIS Research Team

Juan Villermo Zuluaga

Funding

EU Horizon Europe Framework Programme



Figure 1. Auchan commercial area.

Period

2024-2027

Total

10 819 307.32€

CERIS

208 437.50€

Project website

<https://regeneration.eu/>