

Madrid City Data Spaces selected projects

Madrid Green Data Space (MGDS) will provide the digital layer for the strategic experiment “Green infrastructure and health co-benefits of urban greening” from the Deep Demonstration portfolio. It will also provide general guidelines applicable to other domains/experiments in the portfolio (incl. data acquisition and management, support for public/private/personal data, governance framework, and interoperability and data sharing).

MGDS stems from our previous experience in data asset cataloguing, as well as vocabulary, common data structures and API developments for Madrid’s open data and geolocated data. It will follow technical specifications from the International Data Spaces Association (for public and private data) and SOLID (for personal data). It will deliver a GIS-powered dashboard with indicators combining public (Earth Observation, land use, open data), private (urban allotments data) and personal data sources.

GREEMTA understands trees as an important heritage for the ecological sustainability of the city of the future. Madrid has been recognized as one of the most arboreal cities in the world. The care of the green spaces of Madrid is an asset that everyone must learn. The purpose of Greemta is to enhance, through data, all the urban green heritage of the city by returning its economic and social value through interactive graphics, analyzes and infographics aimed at being understood by everyone.

Greemta's outputs will be to create greater awareness of the trees of the city and to provide tools for anyone to be reused. With this we want to stimulate the other cities to imitate Madrid and to private individuals to open a dialogue with the public in the management of green areas.

MADAME is seen as a standard, web-based, digital data marketplace for urban mobility and built environment. It relies on cloud-based open source software, implementing open standards for both data and services, to integrate and share multi-source data from public and private sectors, tightly coupled with already existing EIT Digital and EIT Climate KIC existing solutions.

The goal of MADAME is to provide an open solution for collecting, exchanging, analysing and sharing city data related to mobility and the built environment. MADAME is open by-design and domain-neutral, so to allow the integration with other domains, with the EIT Climate KIC portfolio projects and with the Madrid Healthy, Clean Cities programme.

MADAME also aims to be an innovative data-based approach for harvesting multi-sourced urban data (with a focus on mobility and the built environment) and provide robust solutions to derive the sustainability indicators for checking the alignment with city policies and commitments.

Data for Green Madrid (D4GMad) is the seed of a green data space, piloted in Madrid with several real use cases, but applicable to other cities in Spain or anywhere in the world. It is in full alignment with relevant EU initiatives (Green Deal, Data Strategy, B2G data sharing report). The data space will be fed with a combination of privately-held and publicly available data, and on top of the data several use cases will be run: Monitoring and prediction of air quality at street-level granularity (hyperlocal monitoring); monitoring of economic impact of climate change policies; design of innovative green policies learned from the COVID-19 lockdown and home-work commuting optimisation. The project team has vast experience with real data sharing for social and commercial purposes and are renowned international experts on the challenges to make data sharing scale, such as its financial sustainability. D4GMad will focus on data and its value creation for sustainable cities, and less on the creation of a platform. The team has an ample international network that will bring the required experiences directly to Madrid: member of the EC’s Expert Group on B2G data sharing, member of the NYU GovLab’s Data Steward Network, BIDA taskforce on B2G data sharing for Climate Change. The team is based in Madrid, which facilitates project execution.