



The Urban Lab of Europe !

20
PROJECTS

CALL 4



European Union
European Regional
Development Fund



Région
Hauts-de-France



DIGITAL TRANSITION



DIGITAL TRANSITION



DIGITAL TRANSITION

ERDF Budget:

€ 4,276,073.24

City of GAVA

Ajuntament de Gavà

The **Gavius** project will create a digital tool that facilitates citizens to access subsidies and social aids to which they are entitled in an agile and easy manner, through artificial intelligence features.

The project aims to change the relationship between citizens and administration. The urban authority will transform itself from a reactive to a proactive administration, offering services in a more personalised and close way, building on a better understanding of citizens' needs through the use of data. The system will use machine learning techniques and artificial intelligence to achieve three main objectives: facilitating the work of municipal technicians and their relationship with citizens; helping citizens in accessing public services autonomously and easily; assisting municipal managers and politicians to plan more efficiently the resources needed in social services.

Partnership:

Gava City Council; Mataro City Council; **1 university:** Polytechnical University of Catalonia; **1 NGO:** Institute for Democratic Culture in the Digital Era (Xnet); **1 regional public authority:** Open Administration of Catalonia Consortium (AOC Consortium); **2 enterprises:** Grupo Corporativo Gfi Informàtica; ERNST & YOUNG; **1 research organisation:** International Centre for Numerical Methods in Engineering (CIMNE)

Gavá



DIGITAL TRANSITION

ERDF Budget:

€ 2,621,734.12

City of **HEERLEN**

Gemeente Heerlen

The Dutch municipality of Heerlen is facing a strong downward pressure on its public services budget due to unfavourable economic and demographic trends. To ensure previous quality levels within limited financial opportunities, the **WESH** project will test an alternative, crowdsourced public service delivery model. The proposed solution is to use crowdsourcing to develop a participatory model for better quality and financially sustainable public services, starting from public space maintenance operations. The crowdsourcing of core municipal public service tasks is a governance innovation facilitated by a novel technological solution.

The **WESH** project, enabled by the WESH app creates a virtuous cycle, where the city rewards citizens with a Blockchain-based local token for actively engaging in the upkeep of public spaces that can be spent at local businesses. Thus, a closed local loop is created, boosting the local economy.

Partnership:

City of Heerlen; **1 SME:** CoTown; **1 national public authority:** Statistics Netherlands; **1 business support organisation:** Brightlands Smart Services Campus (BSSC); **2 NGOs:** City centre organisation Heerlen Mijn Stad; Buurtorganisatie GMS; **1 sectoral agency:** Association of Netherlands Municipalities Realisation

Heerlen



DIGITAL TRANSITION

ERDF Budget:

€ 4,479,202.00

City of LISBON

Município de Lisboa

VoxPop will develop a data-sharing model, where multi-party data are translated into actionable intelligence, in an effort to enable the creation of enhanced user-centred mobility services and unlock more efficient methods of planning, operating and maintaining transport assets. Within the project, a public and private data-sharing ecosystem will be implemented, where data are shared and co-developed.

The Lisbon city believes digital transition is a journey combining People, Processes and Technology, which is why VoxPop will also look at non-technological challenges, namely governance, business models, user centricity and unintended consequences of digital innovation.

Partnership:

City of Lisbon; **3 public service providers:** Lisbon's Municipal Company for Mobility and Parking; Lisbon's Bus and Tram Company; Lisbon Metro; **1 private organisation:** OTLIS - Transport Operators of the Lisbon Region; **2 SME:** ARMIS Information Systems; Beta-I; **1 private enterprise:** Deloitte Portugal

Lisbon



DIGITAL TRANSITION

ERDF Budget:

€ 4,998,004.00

City of RAVENNA

Comune di Ravenna

The **DARE** project focuses on the urban regeneration process (URP) of the Darsena District in Ravenna. This area is composed of a dismissed city dock and a densely populated residential area with no major business investment in the last 30 years. The project is seeking to test whether the proposed set of digital tools and enablers may effectively boost the transition of the area and thus positively contributing to the Darsena URP.

DARE develops a digital environment that makes data accessible, understandable and useful, enabling citizens to become active part in the regeneration process. For this purpose, three interconnected digital layers will be created: DMP (Data Management Platform), CMS (Content Management System) and ViR-Virtual Realm. Furthermore, the project works in three directions: digital identity (addressing all citizens); skills of key Target Groups to allow them to become aware digital city changers; regeneration of iconic services/engagement actions based on data and digital tools.

Partnership:

City of Ravenna; **3 NGOs:** Cineca; European Crowdfunding Network; STUDIOMAPP; **3 research entities:** ENEA DTE-SEN; CIFLA; CertiMaC; **2 SMEs:** Chia Lab; BiPart Social Enterprise; **1 university:** University of Bologna; **2 business support organisations:** CNA Ravenna; Legacoop Romagna

Ravenna



DIGITAL TRANSITION

ERDF Budget:

€ 3,962,728.00

Metropole of RENNES

Rennes Métropole

The **RUDI** project aims to enable and implement citizen-centric e-government solutions across sectors and to create value through free and fair access to data of any kind. The innovative solution is to implement the Rennes Urban Data Interface (RUDI), an interface facilitating access to data from multiple producers.

This portal is intended for citizens, companies and other project leaders and is co-designed in a participatory way with these stakeholders. It will facilitate the use and reuse of data, by creating a “data social network”, and include highly innovative elements. Features will be especially designed for citizens regarding their own personal data. As effective data sharing portal, RUDI will produce externalities for the entire urban territory.

Partnership:

Rennes Métropole; **1 university:** IRISA - Rennes 1 University; **2 research organisations:** LEGO Western Lab for Economics and Management - Bretagne Sud University; LTSI: Signal and Image Processing Lab - Rennes 1 University; **1 NGO:** Fing Association; **1 network:** Ouishare Experience SAS; **3 public service providers:** Keolis Rennes; Enedis Bretagne; GRDF Customers Territories Center West; **1 sectoral agency:** Development council of Rennes Metropole - Audiar; **1 private organisation:** Tiriad; **1 newspaper:** Ouest-France

Rennes Métropole



DIGITAL TRANSITION

ERDF Budget:

€ 3,624,696.88

City of VÄXJÖ
Växjö kommun

The **DIACCESS** project aims to make public procurement procedures more agile in order to develop new digital solutions. The overall objective is to better address city's needs and sustainability challenges, while stimulating digital innovation opportunities.

A new procurement process will be tested as part of a Digital Acceleration Hub where municipal services and entrepreneurs cooperate together in developing innovative solutions, focusing on the challenges rather than on the final product. Besides, an open IT platform will enable existing municipal and private or sensors-generated data to be collected, stored and unlocked for innovators, who will then be able to commercialize their services in the platform. In parallel, a Digital Lab will be set up as a creative environment to support innovators and unemployed persons with IT knowledge.

Partnership:

City of Växjö; **1 university:** Linneaus University; **2 NGOs:** Digitri Ideell förening; GodaHus; **1 private enterprise:** Castellum City Förvaltning AB; **2 private SMEs:** dizparc Växjö AB; Wexnet AB; **1 public SME:** Vöfab; **1 business support organisation:** Företagsfabriken

Växjö



DIGITAL TRANSITION

ERDF Budget:

€ 4,859,418.56

City of VIENNA
Stadt Wien

The **BRISE-Vienna** project aims to develop an ambitious digital solution and an automated method for assessing construction permits in order to respond to the challenge of increased construction activity in the capital of Austria. As a result, it will make the approval process of construction permits faster and less resource-consuming, thus benefitting citizens, architects, businesses and public servants.

The local consortium will test a combination of Building Information Modelling (BIM), Artificial Intelligence (AI), machine learning, Virtual Reality (VR) and Augmented Reality (AR). The main solution focuses on the digitalisation of the approvals process and includes semi-automated BIM examinations that will save resources of both applicants and urban authority. It will also optimise the use of AI in transferring legal frameworks into BIM-based test routines.

Partnership:

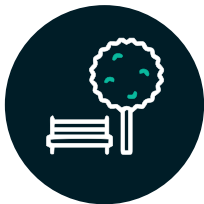
City of Vienna; **2 SMEs:** TBW-ODE; WH Media; **1 university:** Technical University Vienna; **1 sectoral agency:** Chamber of Architects and Civil Engineers

Vienna

SUSTAINABLE USE OF LAND AND NATURE BASED SOLUTIONS



SUSTAINABLE USE OF LAND AND NATURE BASED SOLUTIONS



SUSTAINABLE USE OF LAND AND NATURE BASED SOLUTIONS

ERDF Budget:

€ 2,611,840.40

City of **BAIA MARE**
Municipiul Baia Mare

The project **SPIRE** aims at creating a local value system based on key ecosystem services, adaptive phytoremediation and innovative land-use management, for kick-starting a smart post-industrial reuse process of the brownfields. SPIRE proposes a revolutionary approach to adaptive phytoremediation and ecosystem creation on urban HM-polluted land, as a strategy for long-term land use management and economic re-profiling. It will be accomplished through the perception and behavioural change of the citizens and stakeholders towards environmental sustainability; different land-use strategies and nature based solutions, to reclaim unused land; upcycling of biomass, to address local energy-related needs; and providing support to business start-ups stimulating eco-friendly economic development.

Furthermore, SPIRE will develop an iLEU - a local currency based on tokens that will encourage the commercial cooperation between local actors and will be used as an incentive for local stakeholders to apply environmental-friendly actions in their daily lives.

Partnership:

City of Baia Mare; **2 associations:** Transilvania Branch of the Romanian Association for Electronic Industry and Software; Green Energy Association; **1 university:** University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca; **1 local authority:** Baia Mare Metropolitan Area; **2 private companies:** URBASOFIA SRL; Indeco Soft

Baia

Mare



SUSTAINABLE USE OF LAND AND NATURE BASED SOLUTIONS

ERDF Budget:

€ 4,699,229.00

City of BREDa

Gemeente Breda

The project **GreenQuays** aims to test a complex set of transferable and innovative solutions for renaturing urban rivers in dense downtown areas, where there is insufficient space for developing natural riverbanks. The key solution includes developing and testing a Nature Inclusive Quay (NIQ) technology that is designed to support the development of a complex vertical ecosystem, providing favourable conditions for the growth of herbaceous plants, ferns and mosses; unique growing places for trees; breeding space for birds, and shelter for fish species.

The technical solution is supported by social innovation, through applying an intensive participatory co-design process, targeting the active engagement of external stakeholders and citizens. In the real-life verification pilot an inter-connected, climate-adaptive network of green spaces will be established integrating the reconstructed section of river Mark, as well as the NIQ walls, which will be installed based on the results of the technology development and testing process.

Partnership:

City of Breda; **2 associations:** The Baronie Area Federation of Nature Associations; Stadshart-Valkenburg Residents' Association; **2 universities:** Delft University of Technology; Wageningen University and Research; **1 regional water authority:** Waterboard Brabantse Delta; **1 private company:** Van den Berk Nurseries; **1 NGO:** RAVON

Breda



SUSTAINABLE USE OF LAND AND NATURE BASED SOLUTIONS

ERDF Budget:

€ 3,947,760.00

City of LATINA

Comune di Latina

UPPER project will transform abandoned green/ built areas of Latina into Productive Parks devoted to research, technological development and self-production of advanced NBS and innovative nature based services, with the aim of tackling several environmental, socio-economic and governance challenges.

The developed NBS will be applied to different local districts characterised by specific challenges (e.g. concentration of Roma community, unregulated urbanisation, absence of public and accessible green spaces, flash floods risks, air pollution and heat island effect) and will implement collaborative initiatives with citizens and other local stakeholders, so to enhance citizens health and wellbeing, reduce social exclusion and foster local sustainable economic and cultural development.

Partnership:

City of Latina; **2 social cooperatives:** Labirinto Social Cooperative; Innovaction Europe Social Cooperative;

1 university: Ce.R.S.I.Te.S. - University of Rome La Sapienza;

1 SME: Tesserae Urban Social Research (Colini – Tripodi GbR);

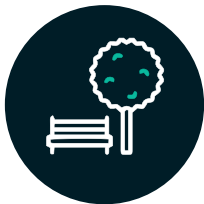
1 utility enterprise: Engie Services S.p.a.; **1 foundation:**

Roffredo Caetani Foundation; **1 local authority**

association: Tecla Association; **1 national park authority:**

Circeo National Park

Latina



SUSTAINABLE USE OF LAND AND NATURE BASED SOLUTIONS

ERDF Budget:

€ 3,995,496.56

City of **PLYMOUTH**

Plymouth City Council

Green Minds will test a systemic approach for rethinking nature as a solution. The city of Plymouth affords green and blue infrastructure (GBI) a prominent place in sustainable land use policy but it remains undervalued in many ways, leading to deprioritisation. The urban rewilding, training and communications programmes will change mind-sets, literally creating Green Minds.

The project will experiment such system with replicable and transferable new management models, urban land use guides, Green Minds toolkit, and best practices. Changing attitudes and behaviours will allow to give GBI higher priority and to foster a management approach that works with nature rather than against it. The use of science and creative digital tools make nature in the city much more visible and exciting to people. Green Minds aims at inspiring people to change their behaviours through 'urban rewilding' projects.

Partnership:

Plymouth City Council; **1 university:** University of Plymouth;

2 charities: National Trust; Devon Wildlife Trust; **2 SMEs:**

Real Ideas Organisation CIC; The Data Place Ltd; **1 art school:**

Plymouth College of Art

Plymouth



SUSTAINABLE USE OF LAND AND NATURE BASED SOLUTIONS

ERDF Budget:

€ 2,959,792.00

City of PRATO

Comune di Prato

The **PUJ** project aims at renaturing Prato's neighbourhoods in a sustainable and socially inclusive way by developing Urban Jungles (UJs) or high-densely green re-designed areas, immersed in the urban structure, that multiply the natural capacity of plants to abate pollutants, restore soil and space to community fruition, and turn marginal and decaying areas into life-giving green active hubs within the city.

The UJs will be developed in three specific areas of the city: a private area (ESTRA buildings) located in a complex urban area close to the busiest thoroughfare in the city; a social housing building inhabited by about 500 people, living situations of social marginality; an underutilised spaces already undertaking a process of regeneration. The present solution goes beyond common urban forestry experiences, by adopting a new strategic urban planning approach that, through a strong co-design and engagement of stakeholders, supports more inclusive urban green development.

Partnership:

City of Prato; **2 architecture studios:** Stefano Boeri Architects; Pnat Srl; **1 research institute:** C.N.R- IBIMET: Institute of Biometeorology National Research Council; **1 public utility:** Estra S.p.A- EnergyServices Territory Environment; **2 SMEs:** greenApes Srl SB; Treedom srl; **1 environmental NGO:** Legambiente Tuscany

Prato

URBAN

POVERTY



URBAN

POVERTY



URBAN POVERTY

ERDF Budget:

€ 4,800,000.00

City of **BERGAMO**

Comune di Bergamo

With the **CAPACITyES** project, the city of Bergamo seeks to tackle urban poverty, specifically considering housing deprivation, children educational poverty and spatial segregation. These challenges occur in an urban context marked by a high percentage of families living in absolute or relative poverty, most of them foreigner. A significant quota of these people are underage children.

CAPACITyES solution is an integrated approach focusing on children perspective including temporary co-housing structure for families with children under age; and a new hub dedicated to children, with cultural, artistic and sport activities, tutoring and scholarships to address children education poverty and help the integration process. The project will invest in social inclusion throughout learning process to develop children soft skills. Focussing on the children aims at breaking the cycle of disadvantages, reducing the risk of poverty and social exclusion, and health problems in the future.

Partnership:

City of Bergamo, **3 cooperatives:** Social Cooperative RUAH; Social Cooperative Patronato San Vincenzo; Generations FA Cooperative; **2 private training centres:** Professional Training Association PSV; BEST Institut; **2 private organisations:** ISMU - Foundation for Initiatives and Studies on multi ethnicity; CSI - Italian Sporting Center of Bergamo; **1 private enterprise:** PURELAB

Bergamo



URBAN POVERTY

ERDF Budget:

€ 4,982,280.36

City of GETAFE

Ayuntamiento de Getafe

More than 30% of Spanish households are unable to keep an adequate and healthy heat and cold temperature at home. Main problems to face this challenge are the lack of information (individual data, standard definitions, and statistics) and the lack of specific cross and holistic public services with a different approach than the monetary poverty's.

The Energy Poverty Intelligence Unit – **EPIU** project will target more than 30.000 people in Getafe, suffering from energy poverty, with several aggravating causes (ageing, old and poor quality housing, migrants, tenure, low income, unemployment). It aims to do this though developing an intelligent data analytics system focused on identification and prediction of energy poverty affected people, and implementing specific tailored made programs for citizens to mitigate energy poverty effects. Innovation lies in the change in energy poverty attention beyond monetary poverty: from reaction to prevention using data.

Partnership:

Ayuntamiento de Getafe, **1 public enterprise:** EMSV - Municipal Land and Housing Company of Getafe;

2 universities: UC3M - Carlos III University of Madrid; UPM – Polytechnic; University of Madrid; **4 private organisations:**

ACA - Environmental Science Association; FN - Naturgy Foundation; CR - Red Cross; FLC - Construction Labour Foundation; **1 private enterprise:** Khora Urban Thinkers

Getafe



URBAN POVERTY

ERDF Budget:

€ 4,983,194.76

City of LANDSHUT

Stadt Landshut

The **home and care** project aims to support single parents and their children by securing employment opportunities and tackling social exclusion as well as child poverty.

For this the project will develop a new integrated concept of flexible child care and housing. The overall objective is to create the necessary circumstances for single parents to follow a training or to take up a full-time job while at the same time care of their children is ensured. Two buildings with connection doors and common areas will be constructed and tested allowing single parents working in healthcare and nursing professions to live door to door with single parents working in childcare. Mutual cooperation between the two target groups will be established with childcare workers taking care of children of healthcare workers especially during night shifts. With this innovative approach children do not have to leave their familiar living environment and single parents are more flexible to take up professions that require working outside the traditional opening hours of child care facilities.

Partnership:

City of Landshut; **3 NGOs:** Kinderstiftung "Zukunft für alle Kinder"; Heilig-Geistspitalstiftung Landshut; ZAK e.V. Landshut; **2 private companies:** Klinikum Landshut; LAKUMED; **1 university:** Hochschule für Angewandte Wissenschaften Landshut; **1 education/ training centre and school:** Fachakademie für Sozialpädagogik der Schulstiftung Seligenthal

Landschut



URBAN POVERTY

ERDF Budget:

€ 4,973,880.00

City of MILAN
Comune di Milano

Milan seeks to increase the city's social cohesion, build vibrant communities, and reduce educational and economic disparities with the Wellbeing Integrated System of Milan – WISH MI.

Through **WISH MI** project, the city aims supporting about 225,000 minors in the midst of these challenges, by a) empowering its youth to play an integral part in shaping Milan future; b) building new easy-to-navigate engaging digital pathway to services; and c) building local community hubs, which will serve as innovative “playgrounds” where all players of the community can interact and co-produce, find and offer tailored opportunities.

WISH MI will result in a City where communities have greater access to and take advantage of City services, as well as a City with a strong social fabric in which all community members feel included and supported.

Partnership:

Comune di Milano; **1 public research centre:** Milan Polytechnic; **2 private organisations:** Milan Polytechnic Foundation; ActionAid; **1 university:** Università Cattolica del Sacro Cuore; **1 cooperative:** ABCittà s.c.s.

Milan



URBAN POVERTY

ERDF Budget:

€ 3,631,812.00

City of **SERAING**

Ville de Seraing

The project **A Place to Be-Come** aims to tackle social exclusion while creating quality green spaces for all. This will be achieved through an inclusive urban planning process using choice architecture and nudging to proactively encourage vulnerable target groups.

New forms of active participation of deprived citizens to the regeneration of their neighbourhood will be tested with three types of activities: nature-based education and training, development of soft skills based on the design of parks and other public areas as well as co-planning and co-design of a newly created district. The project seeks to give deprived citizens the opportunity to be the first users of the new district in order to integrate them into its social life. For this a homeless day-shelter will be relocated in the district involving all inhabitants in the development of the area, give access to green spaces and make them benefit from project activities. Moreover a vacant building will be refurbished to become a place where a mixed public can meet.

Partnership:

City of Seraing; **2 associations:** AREBS; Natagora; **1 university:** University of Liège; **1 local public authority:** CPAS Seraing; **2 private companies:** Letsgocity; PSYKOLAB

Serainq

URBAN

SECURITY



URBAN

SECURITY



URBAN SECURITY

ERDF Budget:

€ 3,973,140.00

City of PIRAEUS
ΔΗΜΟΣ ΠΕΙΡΑΙΑ

The **BeSecure-FeelSecure** project aims to reinforce urban security while promoting a positive perception of urban safety by strengthening cross-sectoral collaboration among the main urban security stakeholders in physical and cyber spaces.

This holistic collaborative security solution is embodied by the creation of a Local Council for Crime Prevention as governance structure involving the police, the City as well as criminology and cybersecurity experts.

To support the decision-making process, an ICT Collaborative urban Risk Management platform will collect and analyze crime-related data (including incident reports by citizens) in order to forecast, evaluate and prevent security threats. The process will contribute to define and experiment different social mobilization and spatial actions based on the Crime Prevention Through Spatial Design approach, in order to increase city resilience against crime.

Partnership:

City of Piraeus; **2 universities:** Panteion university of social and political sciences; University of Piraeus Research Center;
1 national public authority: Ministry of Citizen Protection;
2 private enterprises: SingularLogic; SPACE Hellas SA;
1 international organisation: European Forum for Urban Security

Piraeus



URBAN SECURITY

ERDF Budget:

€ 3,205,722.00

City of TAMPERE

Tampereen kaupunki

The key challenge to be addressed by the **SURE** project is the efficient management of large crowd concentration to ensure event-related urban security and to prevent a severe security incident.

The project builds on novel ways for involvement of citizens as active co-creators of urban security solutions, innovative utilisation and integration of latest digital urban security technologies and infrastructure (IoT/sensors, 3D modelling, real-time tracking and location data-based applications, AI and analytics on smart surveillance cameras), as well as seamless cooperation between urban and security authorities, event organisers and urban security service providers. Thus the project facilitates new kind of urban capabilities to predict the movement of crowds and research into the effects of various urban security services and infrastructure on the behaviour of people in exceptional security situations. Event areas at Tampere city center will serve as testbed for the simulation of different security situations and real life exercises before the scaling up of the solution to other security-sensitive public spaces.

Partnership:

City of Tampere; **2 universities:** Tampere University; Tampere University of Applied Sciences; **1 business support organisation:** Business Tampere; **4 private companies:** Nokia Networks; Securitas; Insta DefSec; Intopalo Digital

Tampere



URBAN SECURITY

ERDF Budget:

€ 4,643,903.28

City of **TURIN**

Comune di Torino

To-nite aims to deliver community-based urban security, through technology-based social sensing, community activation and empowerment.

The project will develop a set of multidisciplinary and co-designed solutions with communities, aimed at improving the liveability of public spaces, tackling problems deriving from a perception of insecurity that tends to generate social intolerance and under-use of public spaces. The proposed solutions is expected to enhance the capacity of the city to prevent security threats, by improving city's capabilities to monitor the current situation, detect the rise of new phenomena, preventing polarisation and radicalisation. Through a co-design, the project will support the integration of marginalised people, in areas of the cities characterised by different density, accessibility and attractiveness during the night-time.

Partnership:

City of Turin; **1 NGO:** Torino Wireless Foundation;

3 enterprises: Engineering - Ingegneria Informatica S.p.A.;

Experientia S.r.l.; Espereal Technologies; **1 social enterprise:**

Socialfare; **2 local authorities associations:** European Forum for Urban Security (EFUS); National Association of Italian Municipalities (ANCI)

Turin

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**The European Commission
and the Hauts-de-France Region
are proud to announce the
projects approved under the
4th Call for Proposals.**

Selected out of **175 applications,
they will experiment creative and
durable solutions to address the
challenges of digital transition,
sustainable use of land & nature
based solutions, urban poverty
and urban security.**

The **20 new projects are
innovative but they also have
solid local partnerships and
strong co-design processes.
Congratulations to all of them!**

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