



Nature-Based Solutions for Urban Areas

A catalogue of innovative solutions from EU-funded projects SATURN, Landscape Metropolis, Urban Innovative Actions and URBAN GreenUP.



Landscape Metropolis



The Landscape Metropolis strategy aims to enhance the landscape, which is seen as an infrastructure, fostering the regeneration of depopulated areas and the connection between the city of Ferrara and its suburban areas through an intermodal-sustainable mobility network (existing and renovated waterways, cycle lanes, railway lanes, bus lanes and walking paths for the daily mobility), thus increasing the quality of citizens' lives.



Get In touch

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Solutions



Decision making tool for urban mobility plans

Description: mathematical models behind planning multistakeholders decisions for urban regeneration, transportation network and service design

How you can benefit: cities can replicate and adopt this innovative model for sustainable planning issues (i.e. delivering a city Masterplan on sustainable mobility).

How to access or use it: available info can be accessed through the Tool page on the project website.

Sustainable intermodal mobility experiments

Description: landscape Mobility has run several experiments between 2019 and 2020 on their designed intermodal mobility network around Ferrara showing how cities can cut carbon emissions through thoughtful planning and creative use of the available city landscape and features.

How you can benefit: city administrators can see the tangible environmental and even social benefits of sustainable mobility that leverages a city's existing landscape.

How to access or use it: landscape Metropolis publishes reports of its experiments (carried out also through crowdfunding campaigns). One example is the "Ferrara by Bike and Boat". See: Un pontile da Baura & Esperienze di Paesaggio. For local governments interested in knowledge exchange opportunities, reach out to Landscape Metropolis.



Ferrara
Play&Go



Play&Go campaign
for sustainable mobility

Description: citizens of Ferrara become "players" through a mobile app where they can track their sustainable travel and are rewarded with virtual points. Play & Go proposes a comprehensive approach that allows the mobilization of the entire community from city administrators, to transportation operators, citizens, associations, up to the private sector. This initiative is replicable in other cities proposing a grassroots approach for encouraging sustainable mobility and promoting greater awareness of their local city's mobility objectives and policies.

How you can benefit: other city governments or regions can replicate the same model within their own cities

How to access or use it: users can download the app below or interested local governments can reach out to Landscape Metropolis to explore knowledge exchange opportunities.

Sustainable Mobility Data Catalogue

Description: based on CKAN open source software, it referenced more than 130 different datasets provided by 15 organizations about different domains (mobility, infrastructures, environment, air quality and other topics related to the demonstrator project).

How you can benefit: other city governments or regions can build up similar intersectoral database within their own cities

How to access or use it: available data can be accessed through the Data page on the project website. For further information, please reach out to Landscape Metropolis.



CLIMB/
KIDS GO GREEN
SCOPRIAMO IL MONDO A PICCOLI PASSI

KidsGoGreen campaign for schools,
home-school mobility campaign

Description: KidsGoGreen is an educational game that involves the school, the children and their families in an adventure around the world and promotes more sustainable mobility. Initially targeting children aged 6-14 from Ferrara schools, the campaign is available for adoption in other cities.

How you can benefit:

- **Schools:** the teachers collaborate in the creation of interdisciplinary educational journeys.
- **Families and their children (end users):** children go to school with sustainable means motivated by the collective game and families follow the progress of their children through
- a Web app.
- **Cities:** can replicate and adopt this innovative project for your City.
- **How to access or use it:** schools interested in running the campaign for their students or cities interested in adopting the project can reach out via the main KidsGoGreen website.



Reintegrating natural assets within city climate change impact strategy and expanding and feeding this model by creating a wider initiative in relationship with rural territories and the agro-food value chain.



Get In touch

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Solutions

Rural Urban Metabolism (RUM)

Description: a practical tool based on models and softwares in open source to help quantifying the ecological footprint, bio-capacity and rural-urban metabolism of territories involved.

How you can benefit:

- **City and public authorities:** helps analyse cities and surroundings from a socio-economic-ecological point of view, allowing you to address future territorial plans (including both urban and rural areas) towards a circular and sustainable future.

How to access or use it: the tool will be delivered in the form of a plug-in for OpenAccess GIS that can be easily installed with already running software of many Public Authorities and, also with minimal training, will allow the officers to calculate the values and include them within different other maps, tools, actions and strategy documents.

Municipality-led model farm

Description: the Model Farm is a highly productive small-scale farm unit, providing food and educational content. By showcasing a business model behind a sustainable and successful small-scale farming enterprise run within a municipality, the Model Farm will serve as a driver for the integration of regenerative farming practices in the continuous evolution of urban and rural multifunctional landscapes.

How you can benefit:

- **Cities and public authorities:** the Model Farm programme can help populate municipality-owned farmland with a new generation of farmers. These ones will be supported and trained within a specific “farming incubator” that can be installed in each municipality/territory or act as a network of inter-administration relationships.
- **Citizens:** can propose this programme to regenerate urban and rural landscapes and potentially also generate employment opportunities.

How to access or use it: please reach out to the project contacts for more information.

Visioning process

Description: a participative method that help stakeholders and decision-makers to gain a strategic, integrated and holistic view of the landscape and understanding of its impact to address global challenges by engaging communities in their territory

How you can benefit:

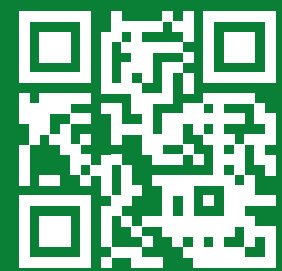
- **Cities and public authorities:** implementing the Visioning Process and exercise as developed by SATURN allows cities to better engage citizens and change their perceptions about an area, steering the decision-making process of each city towards a more effective planning of sustainable landscape.

How to access or use it: please reach out to the project contacts for more information.





Driving the development, application and replication of Renaturing Urban Plans in a number of European and non-European partner cities with the aim to mitigate the effects of climate change, improve air quality and water management, as well as to increase the sustainability of our cities through innovative nature-based solutions.



Get In touch



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Solutions



Good Practices Kit

Description: this kit will assist those interested in using Nature-Based Solutions (NBS) to make their city more liveable and resilient to climate change. It offers a set of best practices and recommendations that cover all the stages of implementation from how to select the right solution, to how to set one up, and how to monitor it.

The advice in this kit draws on the insights of URBAN GreenUP that has developed and applied “Renaturing Urban Plans” in various cities across the world. The goal is to use pioneering NBS to mitigate the effects of climate change, improve air quality and water management, and to make cities more sustainable.

How you can benefit:

- **Cities and public authorities:** the URBAN GreenUP Good Practices Kit allows cities to understand the latest best practices and recommendations that cover all the stages of NBS implementation from how to select the right NBS to how to set one up as well as how to monitor it.
- **Citizens:** through the URBAN GreenUP Good Practices Kit, citizens can see different ways of implementing NBS in their localities and understand some of the steps to implement them. Real-world examples can also support them in making compelling suggestions to their local government.

How to access or use it: the Good Practices Kit is accessible through this link: www.urbangreenup.eu/resources/good-practices-kit/good-practices-kit.kl

NBS Catalogue

Description: nature-based solutions are interventions inspired by nature and are designed to deal with societal and environmental problems. The idea behind these solutions is to exploit the properties of plants, soils and other natural elements to reshape cities and to increase the sustainability of citizens’ lifestyles. URBAN GreenUP has curated these solutions and organised them in a catalogue.

How you can benefit:

Cities and public authorities and citizens: Interested stakeholders, whether citizens or those working in city governments can easily have an overview of the various kinds of NBS solutions available to them with examples on how they have been implemented.

How to access or use it: The catalogue is freely accessible online through: www.urbangreenup.eu/solutions

NBS Selection Tool

Description: this tool is a decision support tool designed to give suggestions that may help potential users choose the right NBS, based on both a city’s capabilities, and targeted outcomes. It can also be helpful in figuring out how to build a city’s capacity to deliver NBS, and communicating to decision makers on how to adopt NBS.

How you can benefit:

- **Cities and public authorities:** the NBS Selection Tool can help cities to find appropriate NBS solutions based on their city characteristics or context.
- **Citizens:** citizens lobbying for the implementation of NBS can easily find and show the most appropriate NBS for their cities.

How to access or use it: download the NBS Selection tool from the main project website: www.urbangreenup.eu/resources/nbs-selection-tool/nbs-selection-tool.kl

Info Packs


Description: the Urban GreenUP Info Packs consist of five info sheets highlighting nature-based solutions developed by the European cities of URBAN GreenUP. They showcase the URBAN GreenUP methodology.

How you can benefit:

- **Cities and public authorities:** the portable info packs provide cities and public authorities with a more use case specific reference enabling them to support their efforts in convincing decision makers to adopt NBS.

How to access or use it: www.urbangreenup.eu/resources/info-packs/info-packs.kl



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