



HORIZON 2020 “CLEVER CITIES”

Co-designing Locally tailored Ecological solutions for Value added, socially inclusivE Regeneration in Cities

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www.clevercities.eu

HORIZON 2020 «CLEVER CITIES» – Co-designing Locally tailored Ecological solutions for Value added, socially inclusive Regeneration in Cities

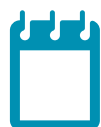
The CLEVER Cities project uses nature-based solutions to address urban challenges and promote social inclusion in cities across Europe, South America and China.



NBS
Co-creation



15εκ. €



Ιούνιος 2018
Νοέμβριος 2023

Εταιρικό σχήμα



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HORIZON 2020 – CLEVER CITIES (www.clevercities.eu) – Co-designing Locally tailored Ecological solutions for Value added, socially inclusive Regeneration in Cities

Nature-based solutions

Nature-based solutions (NBS) means planning and designing natural features, such as trees, plants and green spaces, in a way that can help address urban challenges.

With three quarters of the European Union's population living in cities, and deprived areas of those cities often lacking in quality green spaces, CLEVER Cities intends to position nature-based solutions as a means to improving public health, social cohesion, citizen security and increasing economic opportunities in those areas.

Project aims

CLEVER Cities aim to:

- increase and improve local knowledge of nature-based solutions,
- demonstrate that greener cities work better for people and communities,
- contribute data and information to EU policy-making, and ultimately
- promote and enable the uptake of nature-based solutions in urban planning world-wide.

CLEVER Cities packages

Together, local governments, civil society, universities and businesses design, test and implement CLEVER Cities packages for urban planning processes in the cities of **Hamburg, London and Milan**.



Replication

The cities of **Sfântu Gheorghe, Quito, Madrid, Belgrade, Larissa and Malmö** replicate and tailor the nature-based solutions to their local needs with the help of roadmaps, guidance on governance, business and financial models, co-created by the CLEVER Cities team.

Work Packages

(WP1) Designing the CLEVER NBS Knowledge Framework

(WP5) CLEVER Solutions – From Innovation to Market

(WP2) Co-creating CLEVER Cities for urban regeneration

(WP6) Enabling global NBS leaders

(WP3) CLEVER Fellows – Taking the lead in transferring and customising NBS

(WP7) Sharing the CLEVER Cities story

(WP4) Assessing NBS impact through the CLEVER Monitor

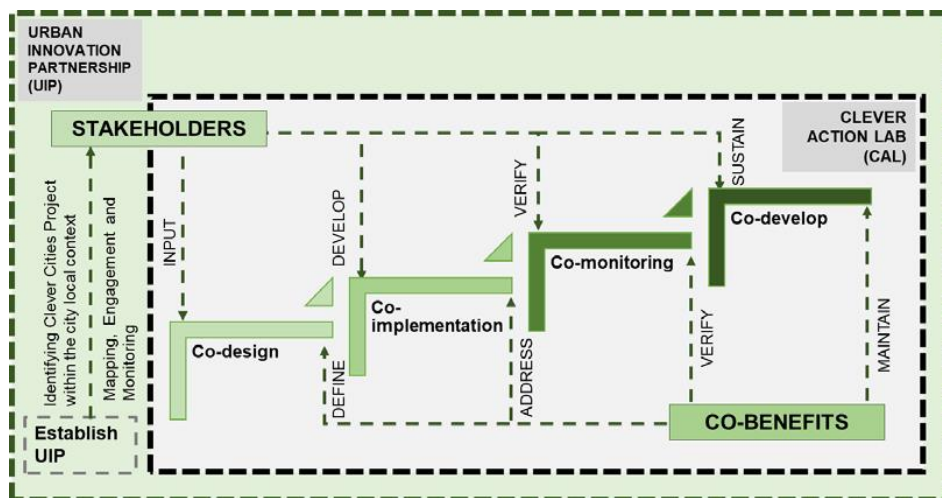
(WP8) Coordinating CLEVER Cities – Project Management

Δημοσιεύσεις (2018-2023) – επιπλέον πληροφορίες διαθέσιμες στην ιστοσελίδα του προγράμματος

- **The Co-Creation Pathway as a Catalyst for Implementing Nature-based Solution in Urban Regeneration Strategies: Learning from the CLEVER Cities Framework and Milano as a Test-bed**
- Are Nature-based Solutions the Answer to the Urban Sustainability Dilemma? The case of CLEVER Cities' CALs
- Co-creating Nature-based Solutions for Healthy and Sustainable Cities: The Urban Public Health Approach
- Co-creation Pathway for Urban Nature-Based Solutions: Testing a Shared-Governance Approach in Three Cities and Nine Action Labs
- Public procurement of nature-based solutions - Addressing barriers to the procurement of urban NBS: case studies and recommendations
- Stakeholder Participation in the Planning and Design of Nature-Based Solutions. Insights from the CLEVER Cities Project in Hamburg
- **Evaluating the impact of nature-based solutions: A handbook for practitioners**
- A Multi-Level Perspective on the Sustainability Transition towards Nature-Based Solutions and Co-Creation in the Urban Planning of Belgrade, Serbia
- Co-creation Pathways to Inform Shared Governance of Urban Living Labs in Practice: Lessons From Three European Projects
- Setting the Social Monitoring Framework for Nature-Based Solutions Impact: Methodological Approach and Pre-Greening Measurements in the Case Study from CLEVER Cities Milan
- Citizen engagement for urban biodiversity through NBS: the CLEVER Cities experience (in Italian)
- Nature-based Solutions for Sustainable Urban Planning: Greening Cities, Shaping Cities
- A General Procedure to Identify Indicators for Evaluation and Monitoring of Nature-based Solution Projects
- Localizing Sustainable Development Goals (SDGs) Through Co-creation of Nature-Based Solutions (NBS) Towards an Assessment Framework for Local Governments
- A Proposal of a Tool to Assess Psychosocial Benefits of Nature-Based Interventions for Sustainable Built Environment
- CLEVER Cities: l'esperienza di co-creazione delle NBS nel parco del Giambellino 129
- **Four years of Co-creation with stakeholders: What did we learn about its added value in Urban Planning? Insights from CLEVER Cities Milan three Urban Living Labs.**

FrontRunner cities

- CLEVER Action Labs
- Ανάπτυξη και υλοποίηση έργων



HAMBURG (GERMANY)

LONDON (GREAT BRITAIN)

MILAN (ITALY)

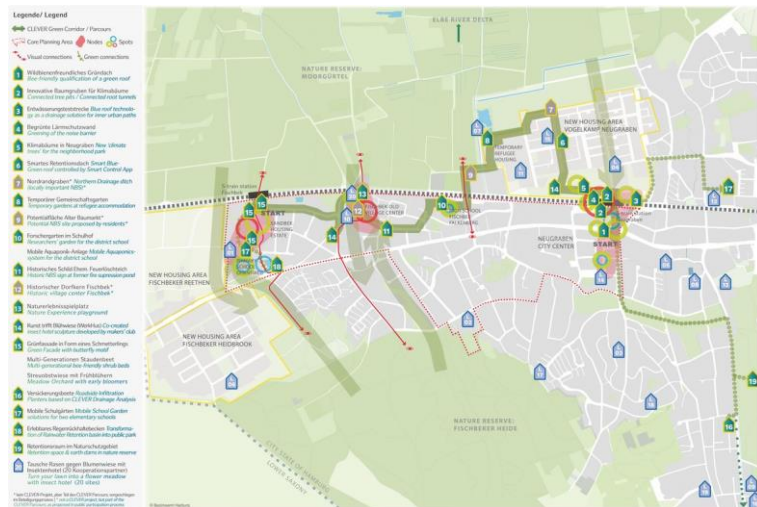
Fellow cities

- Urban Innovation Partnership
- Roadmap
- NBS plan

Belgrade (Serbia)
Larissa (Greece)
Madrid (Spain)
Malmo (Sweden)
Sfantu Gheorghe (Romania)
Quito (Ecuador)

HAMBURG

- Περιοχή παρέμβασης: Neugraben-Fischbek
- Δημιουργία 'Πράσινου Διαδρόμου' (CLEVER Parkour)
- Πράσινα δώματα και προσόψεις
- Διαμορφώσεις σχολικών αυλών με NBS



LONDON

- Περιοχή παρέμβασης: Thamesmead
- Δημιουργία Τοπικού Συμβουλίου
- Διαμορφώσεις δημόσιων χώρων (χώροι πρασίνου, αστικοί κήποι, φωτισμός, διαμορφώσεις λίμνης, κλπ)



MILAN

- Πράσινα δώματα
- Πράσινος τοίχος στο σταθμό λεωφορείων
- Διαμόρφωση πράσινου τοίχου στο σταθμό τρένου Tibaldi
- Πάρκο Giambellino

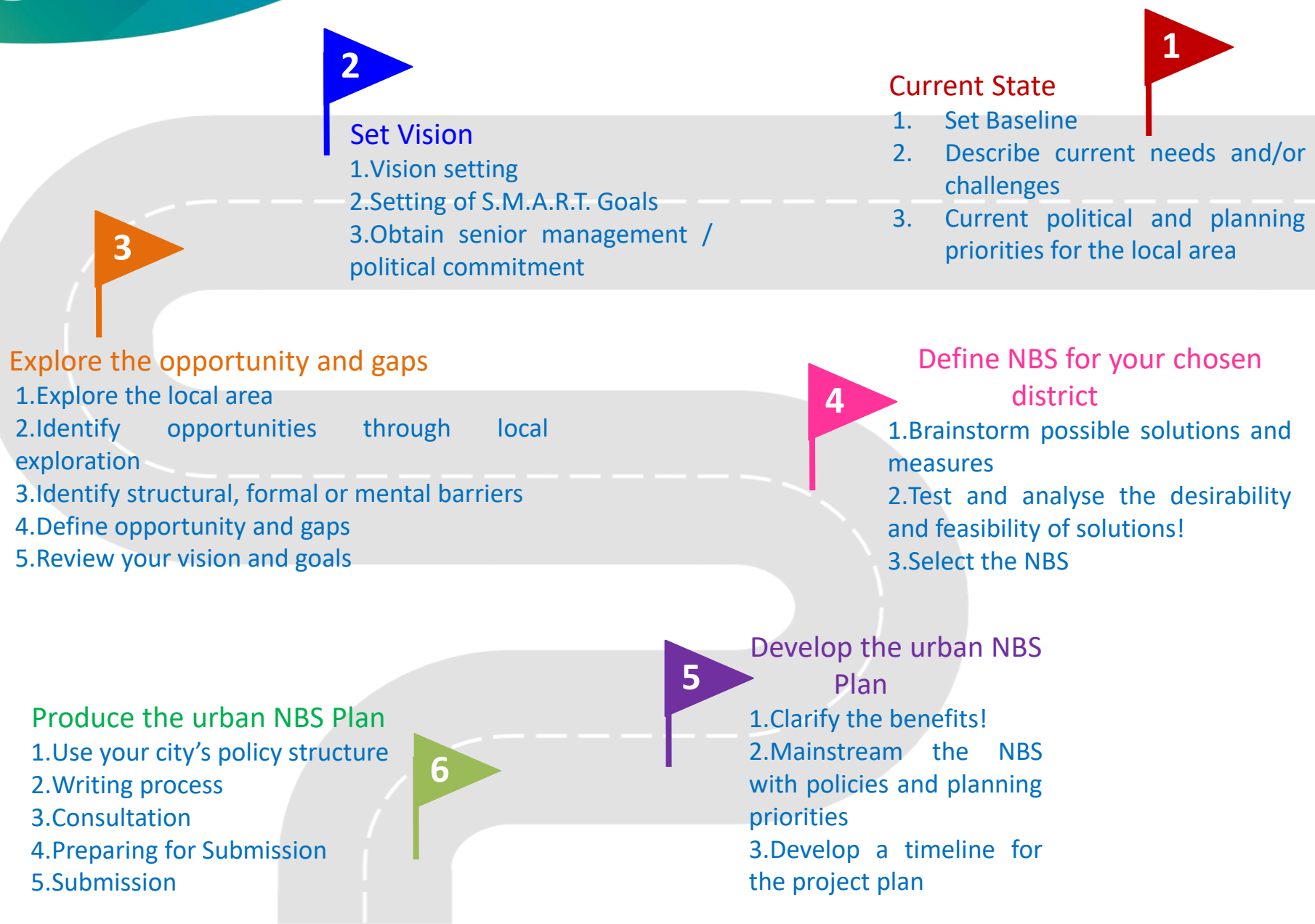


Factsheets

- Factsheet 1 - Key barriers to and factors for improving the successful implementation of nature-based solutions
- Factsheet 2 - Green market opportunities and business policies for urban nature-based solutions
- Factsheet 3 - Impact-driven financing and investment strategies for urban regeneration
- Factsheet 4 - Establishing a framework to measure the impact of nature-based solutions on urban regeneration within CLEVER Cities

Policy briefs

- Gaps and opportunity to sustainable urban development through nature-based solutions
- CLEVER City Case Study Brief – How using a roadmap can encourage cities to replicate more nature-based solutions in the planning process



Urban greening plans



Tackling the climate and biodiversity crises in Europe through Urban Greening Plans

To systematically bring nature back to cities, the EU Biodiversity Strategy calls upon **cities with over 20,000 inhabitants** to develop Urban Greening Plans (UGP). UGP present a unique opportunity for the systematic integration of urban green infrastructures in urban planning across Europe. However, implementation is lagging behind.

Five recommendations are considered essential for the further conceptualisation and operationalisation of UGP:

- the development of an overarching Urban Greening Strategy to translate into **Urban Greening Plans as operational plans**;
- a **stakeholder participation** strategy and a UGP narrative guideline for consistent messaging that enables buy-in;
- **prioritising nature and biodiversity** over competing land use in planning instruments and targets;
- **SMART indicators** to support regular monitoring against established goals; and
- business models, investment models and financing mechanisms that recognise the potential of co-benefits and revenue generation of urban greening actions.

An Urban Greening Plan is not a stand alone document, it is a long term framework and strategy to ensure that towns and cities grow greener in the future.



Urban greening plan cycle steps



- (1) Political commitment;
- (2) Working structure;
- (3) Co-creation process;
- (4) Long-term vision and goals;
- (5) Current state of nature and biodiversity;
- (6) Indicators and targets;
- (7) Priorities, actions, responsibilities, timelines, and financing;
- (8) Communication, education, and public awareness strategy;
- (9) Monitoring, reporting, and evaluation system;
- (10) Adopt, publish and implement the plan

D1.1 Guiding framework for project activities

Theme 1: Barriers and success factors

By the Hamburg Institute of International Economics (HWWI)

This document draws on the experiences of past and ongoing projects in the field of nature-based solutions and urban regeneration. Ten key barriers identified through the review and their solutions are presented.

Theme 2: Market opportunities & business policies

By the European Business and Innovation Centre Network

This document explores existing barriers as well as potential opportunities for increasing the scale and effectiveness of nature-based solution implementation. The focus is placed on the private sector for increasing the uptake of nature-based solutions.

Theme 3: Financing & investment strategies

By the European Business and Innovation Centre Network

This document explores the various private and public financing sources as well as the existing strategies for fostering investment in the most common types of nature-based solutions.

Theme 4: Concepts & indicators for impact

By the ECOLOGIC Institute

This document defines social and economic concepts and proposes indicators for measuring their impact for a common CLEVER Cities approach.

Theme 5: Defining the co-creation framework

By the Politecnico di Milano

PART 1: This guidance document outlines the CLEVER Cities co-creation framework, the pathway for the implementation of nature-based solutions and the co-benefits of stakeholder engagement at all levels along the process.

Theme 6: Running CLEVER Action Labs in 16 steps

By the Politecnico di Milano

PART 2: This second part of the guidance contains is a toolkit for the implementation of the co-creation process, including the 16 steps envisioned in a complete co-creation pathway to support cities to achieve successful implementation of nature-based solutions.

Theme 7: European data platforms

By the Environment Agency Austria

This document provides guidance on using EU data platforms for monitoring local processes. It focuses on hubs which provide different types of data that are likely of interest for cities that implement of nature-based solutions in the context of the CLEVER Cities project.

D1.2 Multi-level policy framework for sustainable urban development and NBS

By Ecologic Institute

This report explores the extent to which current policy frameworks support sustainable urban development and nature-based solutions. The focus was on reviewing policies at the international and EU levels as well as at the national, regional and local levels pertaining to the nine CLEVER Cities case studies.

D2.1 Urban Innovation Partnership Launch

By TECNALIA

This document provides an overview of the launching of the urban innovation partnerships in London, Hamburg and Milan.

D2.2 Co-Creation Plan and Co-Design of Solutions

By TECNALIA

This document presents the development and progress of the co-creation plan and co-design of solutions at the level of the CLEVER Action Laboratory (CAL).

D4.1 Monitoring and evaluation framework

By TECNALIA

This document describes the monitoring framework of the project, introduces the roles of the relevant stakeholders, and presents the methodology proposed for the co-design process of KPIs. This is a living document which will be updated and iterated throughout the life of the CLEVER Cities project, culminating in a final version for wider dissemination.

D4.3 Monitoring strategy in the FR interventions

By TECNALIA

This report falls focusses on assessing nature-based solutions impact by establishing and implementing a robust, long-term, integrated yet locally-adaptable co-monitoring framework and platform. As in D4.1, the approach for Key Performance Indicators definition is underpinned by each city's timeframe, co-design process and co-monitoring programmes.

D4.4 Innovation Pathway in CLEVER

By TECNALIA

This report is the third of the three sessions of the deliverable D.4.4. (Impact Assessment analysis report in CALs) of the CLEVER Cities project, led by TECNALIA and which total responsibility recalls in this document authors'. It was agreed with the leaders of the deliverable (HWWI) that the different parts would be delivered individually. The content here presented are based on the results of the LIST tool, developed by TECNALIA, and applied by the frontrunner and fellow cities. It responds to the development of the subtask T.4.5.3. – TRL innovation progress of the deployed NbS.

D5.1 Market Analysis Report

By EBN and HWWI

This report provides a market analysis of selected NBS implemented in CLEVER Cities front-runners London, Hamburg and Milan. Each NBS is analysed on the national, regional and city levels, considering political, economic, social, technological, environmental and legal factors. The analysis is meant to provide support to city planners and companies in understanding the market forces influencing the implementation of NBS in urban planning.

D5.3 Governance, business, and finance models

By EBN, Social Finance and ICLEI

This report looks at CLEVER solutions to bring NBS from innovation to market. It is divided into three sections: Governance Models for NBS, Business Models for NBS and Financing Models for NBS. Together, these sections make up deliverable 5.3 which connects CLEVER solutions with business and financing opportunities. All three sections of this deliverable tie together to support the creators of NBS interventions to implement sustainable projects with long-term value for all stakeholders.

D5.6 CLEVER Solutions Basket

By ICLEI Europe

This document aims in cataloguing the CLEVER Solutions that represent individual NBS implemented in CLEVER FR CALs, which in combination with suitable business, finance and governance models offer solutions to specific urban challenges. It provides a descriptive (not ranking) catalogue where cities can look up NBS related to their needs

D7.1 Visual Identity

By ICLEI Europe

This document establishes the visual identity and core visual elements of the CLEVER Cities project as well as guidance on the use of these elements.

D7.3 Website

By ICLEI Europe

This document presents how the CLEVER Cities website was developed for 'Sharing the CLEVER Cities story'.

Report: Co-design of Nature-Based Solutions with Citizens: Learnings from a sector literature review

By Social Finance

This document reviews and collects recommendations on how to co-design NBS successfully, and illustrates their guidance through real case studies, sharing examples from projects which have applied these co-design techniques to their own NBS.

Evaluation Guide: Evaluating the impact of co-design for Nature-Based Solutions

By Social Finance

This evaluation framework for NBS co-design is intended for use by project teams who are planning and evaluating NBS. It may be particularly relevant to teams responsible for community engagement and co-design. Is intended to be read and used alongside the corresponding [Evaluation Framework document](#).

CLEVER Regional Solutions Catalogue



The CLEVER Regional Solutions Catalogue showcases good practice NbS interventions and enablers from China, Europe and Latin America. The catalogue illustrates the various benefits that urban NbS can generate for the environment, society and economy through a rich compilation of case studies. In addition, the publication outlines relevant models that cities and regions can use to support NbS planning, implementation, and maintenance.



CLEVER Data Hub

The CLEVER Data Hub facilitates discovery, access, integration and evaluation of the data generated within the project to support the impact assessment by the CLEVER Monitor.

CLEVER Cities metadata portal

Through the metadata portal, you can perform searches for project-related information in the databases of the cities of Hamburg, London and Milan, and filter the results by pre-defined keywords or free text.



Πανδημία

Capacity building



- CLEVER Exchange – προσδιορισμός αναγκών για τη δημιουργία δράσεων εκπαίδευσης (π.χ., workshops, webinars)
- Study visits – επισκέψεις των Fellows στις Frontrunners
- Συμμετοχή στην ανάπτυξη των παραδοτέων του προγράμματος

Networking



- Συμμετοχή σε δράσεις του ICLEI με Λατινική Αμερική και Ασία
- Συνεργασία του CLEVER Cities με άλλα προγράμματα – δικτύωση με πόλεις και εταίρους

Advocacy / Policy



- Συμμετοχή του CLEVER Cities στη διαμόρφωση του πλαισίου ανάπτυξης των Urban Greening Plans
- Υποστήριξη δημιουργίας και διασύνδεσης Nature-based Solutions Hubs



CLEVER
Cities



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