

Knowledge & evidence



Collating experience & best practice in NbS

Nature-based solutions fact sheets

13 best practice fact sheets across NBS types Link to UN SDGs

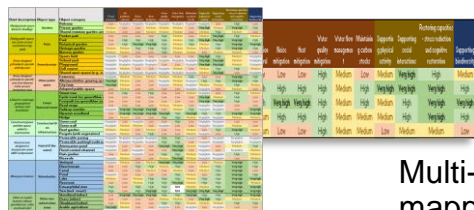
Emphasise on good practices, barriers and lessons learned

Available in English & Chinese

Resources - Factsheets

<https://www.regreen-project.eu/resources/>

Quantifying ecosystem services from NbS



Typologies and impact matrix

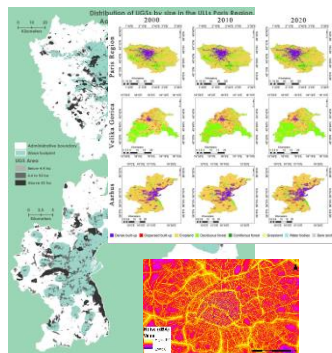
Multi-functional performance matrix of urban Green Infrastructure (GI) – ideal for mapping and modelling

Can help plan & design urban NbS

Multifunctional GI typically support higher levels of biodiversity

Jones et al., 2022,

<https://doi.org/10.1016/j.nbsj.2022.100041>



Fact sheets for mapping and modelling procedures

Factsheets for key mapping and modelling approaches – developed and applied in the REGREEN project

applied methods and outputs in a short and comprehensible way

... modelling of hydrological, noise and air quality benefits from NBS, habitat quality of green spaces

Levin et al, 2023,

<https://zenodo.org/doi/10.5281/zenodo.10607079>

Knowledge & evidence

Quantifying benefits and values from NBS & their services

Understanding NBS-wellbeing complex system

Causal Loop Diagrams developed based on evidence review and expert consultation

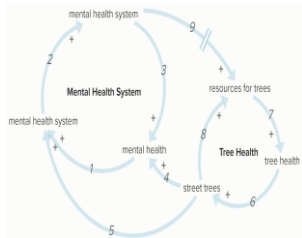
Worked example – street trees and mental health

Establishes potential relationships to be explored in NBS evaluations

Reveals possible unintended consequences of NBS interventions

Alvarado et al, 2023

<https://doi.org/10.5751/ES-14013-280201>



Developing and testing tools

Developing evidence & toolkits to design & plan NbS

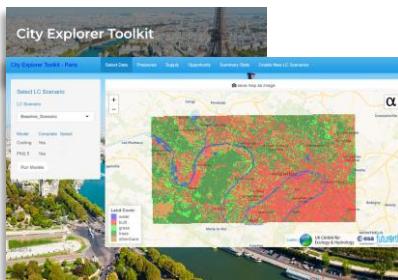
City Explorer Toolkit

Interactive web-based tool to help plan Urban Green & Blue space

Empowers urban planners to understand where best to create urban green spaces

Ensures that the benefits, such as heat reduction, improved air quality, and noise reduction, reach the communities who need them most

<https://www.ceh.ac.uk/city-explorer>



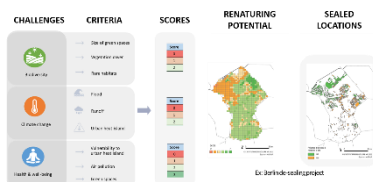
Depavement and renaturalisation

Methodology used to develop a tool to support regional master planning and local depavement and renaturalization strategies

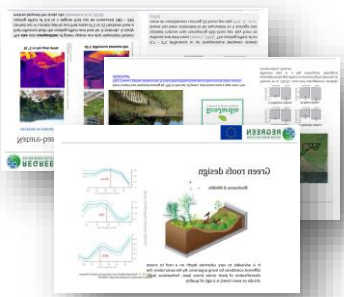
Tackles challenges such as biodiversity recovery, adaptation, improving health and living environment

Grandin et al., 2022

<https://zenodo.org/doi/10.5281/zenodo.7308388>



Developing and testing tools



Developing evidence & toolkits to design & plan NbS

Training of technicians

A training kit to equip participants with the knowledge and skills to successfully implement NBS projects in their cities

Tailor-made approach designed to address context specific needs and challenges, such as depaving, water management, green roofs, and green space design and management

Barra et al, 2023

https://www.regreen-project.eu/wp-content/uploads/Training-kit-for-training-workshops_D7.2.pdf

Business models



Business development & business cases on NbS

Prospectus for NBS business investment

Guidance for sustainable business model development

Three concrete business models

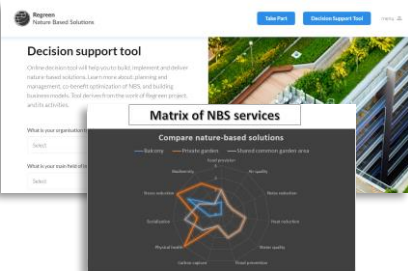
Public-private driven model / commercially driven consultancy model /

Citizen driven model

Ellmer et al., 2023

<https://zenodo.org/doi/10.5281/zenodo.10607871>

Decision Support Tool



An online decision support tool designed to provide customized guidance and resources to stakeholders, including SMEs, communities, local authorities

To build, implement, and deliver effective NBS

<https://nature-solutions.eu/decision-support-tool/>

Awareness in governance & education



Systems of governance & planning

Walkable Floormaps – learning & governance

A tool for learning, governance and dialogue among decision-makers, planners, citizens, children and youth

Aerial photo printed on canvas

QR-codes links to information, videos etc.

Lines/polygons showing development plans

Feedback opportunities

Elze et al., 2023, How to design Interactive Walkable Floormaps
<https://zenodo.org/doi/10.5281/zenodo.10454323>

Children & youth's experience & awareness of their natural environment & NbS

Vigie-Nature École – citizen science

Citizen science protocols to monitor ordinary biodiversity, its loss, and the impact of human activities on the environment

For school children 3-18y

Implemented in 15 schools in Paris region ULL

French & English languages

<https://www.vigienature-ecole.fr/en>



Greenopolis – educational learning platform

Interactive digital learning platform for schoolchildren aged 8-12

Catalogue of activities for exploring urban nature through experiments, fieldtrips and creative exercises

Available in English, French, Danish & Croatian (works on tablet and computer)

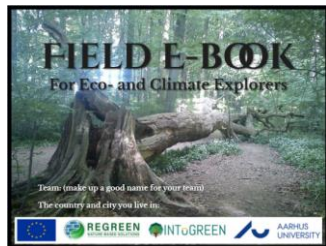
<https://greenopolis.regreen-project.eu/>



Selected REGREEN highlights by objectives

Awareness in governance & education

Children & youth's experience & awareness of their natural environment & NbS



Field E-books

Digital app for exploring local nature

Students create book by adding pictures, videos, texts, drawings, links and more.

Easily adapted to all subjects and grade-levels

Allows children to share local knowledge across schools, languages, and countries

<https://www.regreen-project.eu/e-books/>



Play biotopes –creating synergies between children and nature

We can create synergy between urban biodiversity and children's play through design/management of urban green.

Playbiotope – combine needs of non-human species with needs for children's play.

Co-creating urban management with children increases play and interest for species

Creative management – important for multifunctional green spaces

<https://zenodo.org/doi/10.5281/zenodo.10604287>