



Created by: Nature4Cities
<https://nature4cities-platform.eu/#/>
Language: English, French, German,
Hungarian, Italian, Spanish and Turkish
Low level of expertise required

Comprehensive reference Platform for Nature Based Solutions (NBS), offering technical solutions, methods and tools to empower urban planning decision making. This will help addressing the contemporary environmental, social and economic challenges faced by European Cities. Nature4cities brings Nature back into innovation, planning and implementation driven thinking. This new technical and governance approach implies collaborative models driven by citizens, researchers, policy makers, and industry leaders, relying on participative processes and sharing of Best Practice.

Challenges addressed

- Heat stress and heat island effect
- Air quality
- Soil pollution
- Water management
- Watershed restoration and quality
- Ecological connectivity
- Green space management
- Flood risk
- Landslide risk
- Social cohesion
- Social equity
- Nature appropriation and stewardship
- Environmental education
- Human health and wellbeing

Outcomes

Guidance throughout different stages of the project development.

Examples of application

The Impact of Façade Orientation and Woody Vegetation on Summertime Heat Stress Patterns in a Central European Square: Comparison of Radiation Measurements and Simulations

This paper was produced in the context of the Nature4Cities project. The addressed challenge was urban heat island. The impact of woody vegetation and façade orientation on the radiation heat load was assessed. Results showed that mature shade trees can reduce temperature from 65–75°C to 30–35°C and shading from buildings adjacent to sidewalks play also an important role in mitigating pedestrian heat stress.

Type of tool

- Decision-support tool
- Case studies

Uses

- Create an NBS project
- Assess an NBS project
- Implement an NBS project

Scale

Local.

Location

European Cities.

Scope

Urban.

Advantages

User-friendly platform that covers a wide range of NBS challenges. It is a comprehensive tool that guides the user in the planning, evaluation and implementation of NBS and also suggests specific tools.

Constrains

The level of expertise required varies according to the specific tool selected.