

A knowledge diffusion and decision platform for renaturing cities

N4C knowledge databases and NBS frameworks

N4C NBS typology

A NBS classification based on solutions' nature has been built so that to structure knowledge and enable to have a global view of all NBS



NBS catalogue 57 NBS have been fully documented For each one: a description of the solution is given, the challenges it adresses are identified, as well as the stakeholders, enablers and barriers to implementation...



> On the ground > Choice of plant **USE OF PRE-EXISTING VEGETATION**

Essential habitats for plants and animals can be preserve

Illustration of horticultural hedge v/s Semi-natural hedge

and characterization of the NBS entity NBS can preserve a part of pre-existing ecosystems and vegetation The use of present on the site prior to NBS design and implementation.





Illustration of semi-natural space v/s botanical gard

in a landscape plan

I.2 Urban challenges and sub-challenges related + impacts		
Main challenges and sub-challenges targeted by the NBS	04 Biodiversity and urban space > 04-1 Biodiversity 07 Public Health and well-being > 07-2 Quality of life	 Increase of biodiversity Provide a habitat for birds and insects, and other animals Aesthetic value Contact with nature Support for education
Co-benefits and challenges foreseen	01 Climate Issues > 01-1 Climate mitigation > 01-2 Climate adaptation 2 Water Management > 02-1 Urban water management	 By already grown plant acts in favour of urban heat island reduction and helps filter air and water pollutants Keeping vegetation is in favour of carbon sequestration







A short

photo

NBS Type:

description

of the NBS

Implementation Models Implementation Models (governance models, financing schemes and business models) have been classified according to their capacity to overcome barriers, to become drivers of NBS implementation and to be adapted to different social, economic, cultural and regulatory contexts



Project database

Projects have been selected with regards to their pioneer feature or because the present a interesting implementation model. They have been documented and gathered in a database. They are also in OPPLA NBS database





> 6 leading Research and Technology Organizations

NOBATEK/INEF4 (FR) - Coordinator Cerema (FR), Tecnalia (ES), Eurecat (ES), Cartif (ES), Luxembourg Institute of Science & Technology (LU)

> 4 universities

University of Nantes / IFSTTAR (FR), Agrocampus Ouest (FR), University of Szeged (HU), Middle East Technical University (TR)

> 2 leading industrial organizations

Acciona Construction (ES), Acciona Ingeneria (ES), Rina Consulting (IT)



IFSTTAR

acciona

INVESTIGATE DE NAMES



acciona

RIN

> 2 clusters of stakeholders

(IT), Grün statt Grau (AT)

Plante & Cité (FR), Hungarian Urban Knowledge Center (HU)

> 9 Small and Medium-sized Enterprises (SMEs)

Green4Cities (AT), Terranis (FR), Colouree (IT), Duneworks (NL),

Argedor (TR), Ekodenge (TR), Innova Integra (UK), R2M Solution

> 4 pilot cities

Alcala de Henares (ES), Città Metropolitana Di Milano (IT), Szeged (HU), Çankaya (TR)





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opes, the nature and thickness of the substrate, and the research of plants

rban Sub-challenges: Climate adaptation, Biodiversity, Food, energy and

ced material