

N4C knowledge databases and NBS frameworks

Nature4Cities Event – Bruxelles – 2019 Dec. 10th

Presentation plan











- 1. Organise knowlegde
- 2. Databases
- 3. An overview of the tools to explore NBS knowledge







1. Organise knowlegde

NBS world is a multidisciplinary world, particularly when applied to cities NBS are diverse and their perimeter is still not well defined



3 main kinds of knowledge



Urban NBS

Models to implement NBS in cities

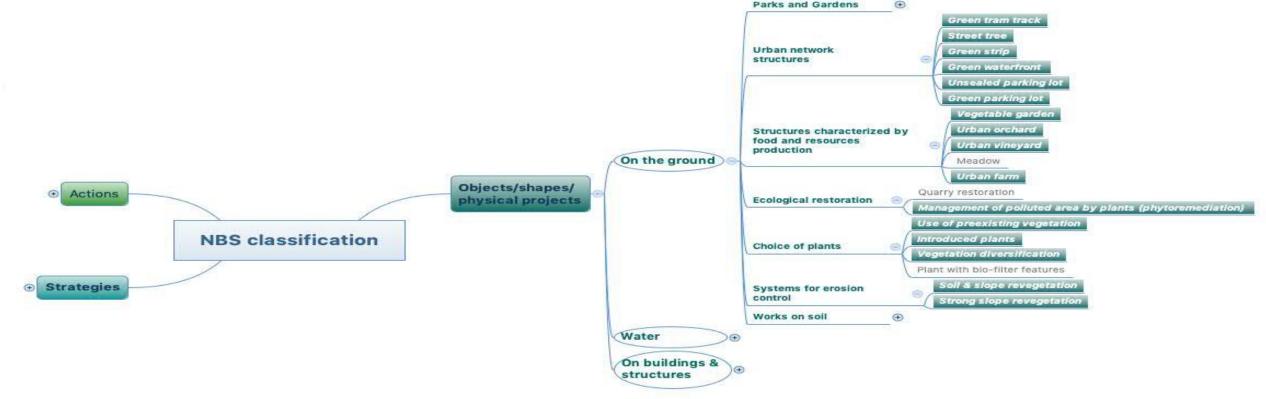
Impacts of NBS



How to characterize and organise urban NBS?



N4C answer: a practical classification based on an inventory of urban NBS (integrated by ThinkNature)





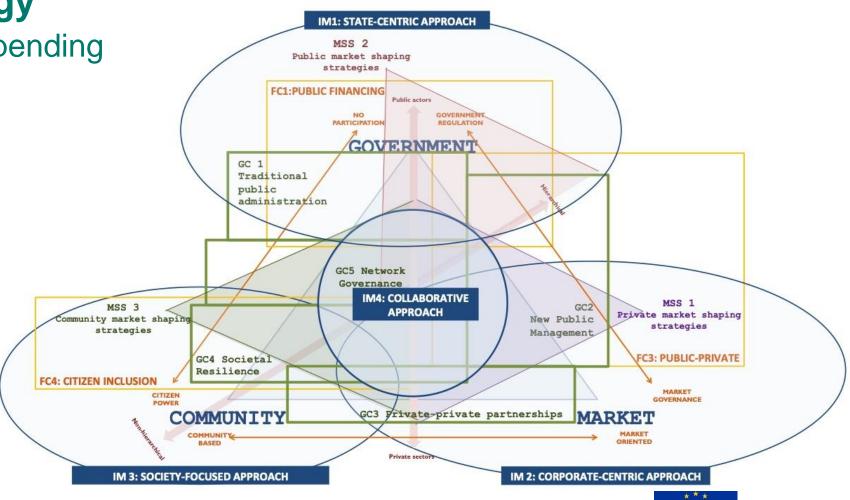
How to characterize and organise Implementation models?



N4C answer: IM typology

4 IM clusters mapped depending on their main actors

- Government
- Community
- Market





What are the impacts of urban NBS?



N4C answer: Urban Challenges definition

- 5 Topics
- 11 Urban challenges (UC)
- 26 sub-challenges (issues NBS can address)

 Climate

 Climate Mater Management

 Climate issues

 Climate Management

 Climate issues

 Climate issues

 Climate Management

 Climate issues

 Climate issues

 Climate issues

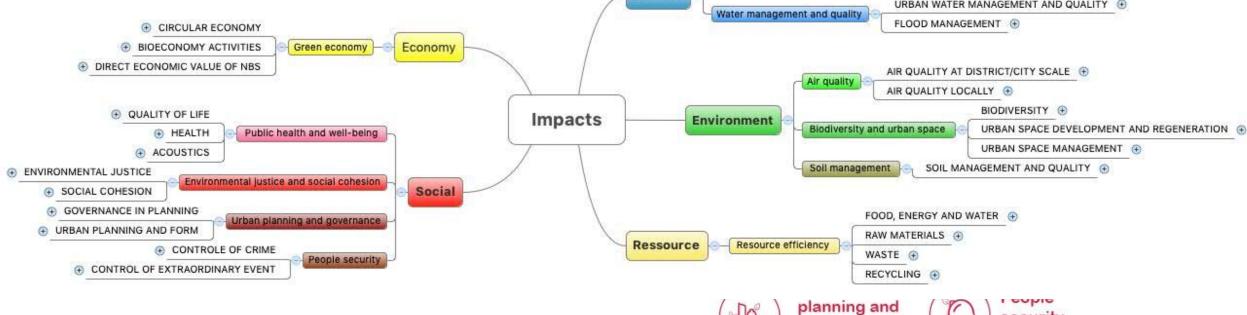
 Climate issues

 Climate issues

 Climate Management and quality

 Climate issues

 Climate





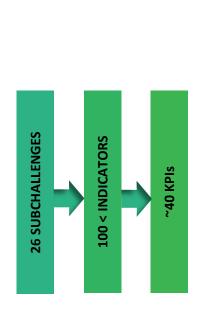


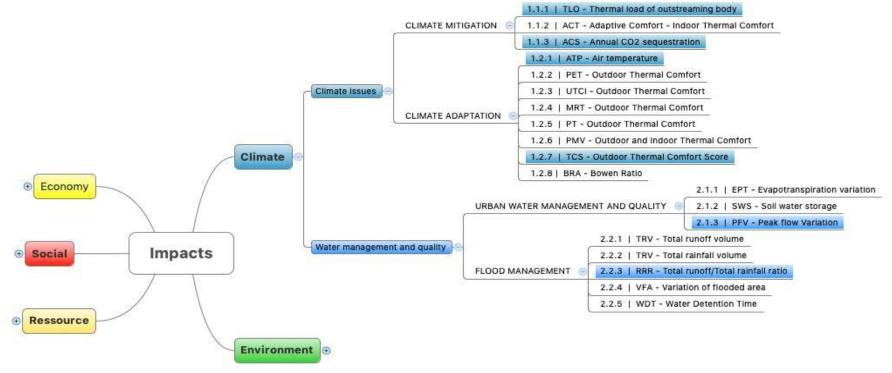
How to assess the impacts?



N4C answer: Performance Indicators catalogue and KPI selection

More than 100 indicators documented and assessed (RACER method)











2. Databases

Databases built to

document NBS entities & NBS projects

store and share information



A urban NBS database

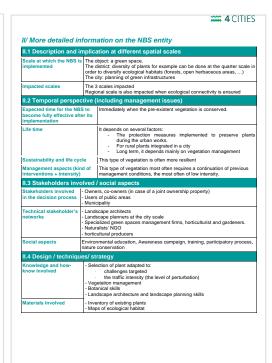


57 NBS documented with

- Description
- Urban challenges adressed
- Stakeholders
- Design
- Implementation
- Alternative solutions









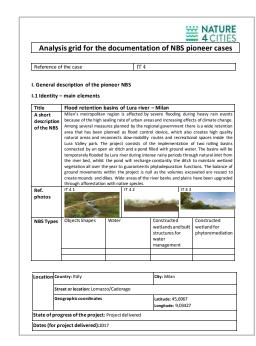
Projects database

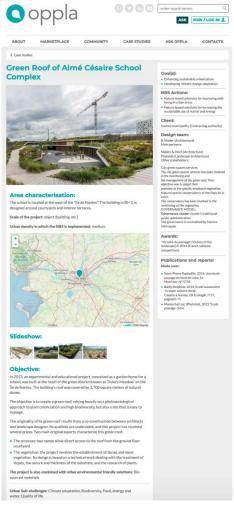


98 projects selected as pioneer or because of their implementation model, documented with

- Description
- Urban challenges adressed
- Stakeholders
- Design
- Implementation
- 41 Pioneer projects in the geocluster tool
- 31 Projects transfered to oppla plateform













3. Tools to explore knowledge

Make the knowledge accessible, easy and pleasant to explore, for different actors



Geocluster4NBS tool



A way to explore NBS and projects databases, to find solutions & references, to check their replicability

Select UCs and USC -> Select Scale

with local characteristics (from

neibourhood level which emans a

larger subset of a city

country basis (from few to several

Visualize NBS and pioneer project on the map

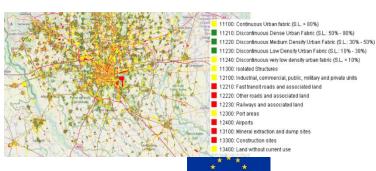
Access to NBS factsheets

Can the project be duplicated to my site?

Formula of a control of the property of the control of the control

Where can I implement this NBS?

-> Check replicability



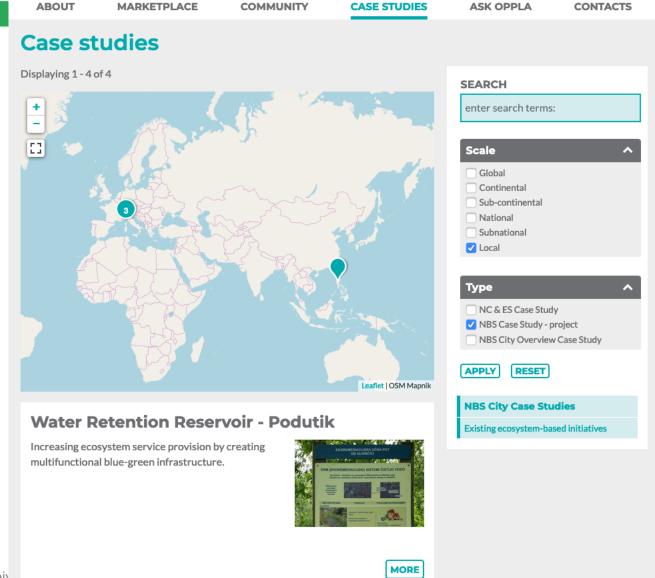
Oppla













IM pre-selection tool





Please, select the GM and FM that fit the best with your NBS project:

Co-management



Governance model

ELIGIBLE MODELS



Public-private

Jblic-private



Financing model

Financial

institutions

Public financing

ELIGIBLE MODELS





Financial

institutions

Please, select the GM and FM that fit the best with your NBS project:



They can provide long term finance which are not provided by commercial

banks. The funds are made available even during periods of depression,

when other sources of finance are not available.





Green Bonds, and Revolving Funds.

Facility (NCFF), European Development Financial Institution (EDFI), Municipal

Conclusion



This detailed knowledge makes the originality of Nature4Cities project

It is available through the deliverables of the projet and differents tools helping to explore it

Databases and Typologies have been designed to be extended with new data, so that to integrate new products and projects: a possibility through the plateform

You will also find this knowlege in other projects

NBS typology has been integrated into ThinkNature typology

Part of the IM typology has been adapted and used by Connecting Nature

A first part of the projects database has been shared through Oppla plateform



Thank you for your attention!



Visit our website: http://www.nature4cities.eu/

And follow us on the social medias:







