N4C knowledge databases and NBS frameworks

Nature4Cities Event – Bruxelles – 2019 Dec. 10th
Presentation plan

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

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)
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 addressed
- Stakeholders
- Design
- Implementation
- Alternative solutions
Projects database

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

- Description
- Urban challenges addressed
- Stakeholders
- Design
- Implementation

41 Pioneer projects in the gecluster tool
31 Projects transfered to oppla plateform

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 730468
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  -> Visualize NBS and pioneer project on the map  Access to NBS factsheets  -> Check replicability

Can the project be duplicated to my site ?

Where can I implement this NBS ?

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Water Retention Reservoir - Podutik
Increasing ecosystem service provision by creating multifunctional blue-green infrastructure.
IM pre-selection tool

ELIGIBLE MODELS

GOVERNANCE

<table>
<thead>
<tr>
<th>Eligible governance models</th>
<th>Definition</th>
<th>Tools</th>
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<tbody>
<tr>
<td>Co-management</td>
<td>Bring together resource users in shared stakeholder management regimes. Such arrangements theoretically provide potentiality to democratise decision making, foster conflict resolution, and encourage stakeholder participation and has been defined as a situation in which two or more social actors negotiate, define, and guarantee amongst themselves a fair sharing of the management functions, entitlements, and responsibilities for a given territory or set of natural resources.</td>
<td>Preferential loans, Guarantee funds, and Soft loans/Dedicated Credit Lines.</td>
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FINANCING

<table>
<thead>
<tr>
<th>Eligible financing models</th>
<th>Definition</th>
<th>Tools</th>
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<tbody>
<tr>
<td>Public-private</td>
<td>Collaboration between a government agency and a private-sector company to finance a project.</td>
<td>European Fund for Strategic Investments (EFSI), Natural Capital Financing Facility (NCF), European Development Financial Institutions (EDFI), Municipal Green Bonds, and Revolving Funds.</td>
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<tr>
<td>Financial institutions</td>
<td>Corporations that provide services as intermediaries of financial markets. 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.</td>
<td></td>
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Conclusion

This detailed knowledge makes the originality of Nature4Cities project

It is available through the deliverables of the projet and different 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 platform

You will also find this knowledge 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 platform
Thank you for your attention!

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

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