



LUND UNIVERSITY

Data Management Framework for Climate Change Adaptation with Blue-Green Infrastructure

Sörensen, Johanna; Persson, Anna S.; Alkan Olsson, Johanna

2022

Document Version:

Early version, also known as pre-print

[Link to publication](#)

Citation for published version (APA):

Sörensen, J., Persson, A. S., & Alkan Olsson, J. (2022). *Data Management Framework for Climate Change Adaptation with Blue-Green Infrastructure*. Paper presented at Swedish Climate Symposium 2022, Norrköping, Sweden.

Total number of authors:

3

Creative Commons License:

Unspecified

General rights

Unless other specific re-use rights are stated the following general rights apply:

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

Read more about Creative commons licenses: <https://creativecommons.org/licenses/>

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

LUND UNIVERSITY

PO Box 117
221 00 Lund
+46 46-222 00 00

Data Management Framework for Climate Change Adaptation with Blue-Green Infrastructure

Johanna Sörensen¹, Anna Persson², Johanna Alkan Olsson²

¹ Water Resources Engineering, Lund University, Lund, Sweden; Johanna.sorensen@tvrl.lth.se

² Centre for Environmental and Climate Science, Lund University, Lund, Sweden

Keywords: Adaptation; Data Management; Spatial Planning; Stormwater; Urban Green Spaces

Blue-Green Infrastructure (BGI) has been brought forward for sustainable adaptation of climate change in the urban environment, where water and green elements of high quality are central. The BGI should be based on solutions specific to the context, e.g., local urban environment, local need for adaptation, and local visions and plans. One important obstacle reaching this goal relates to adequate provisioning of data to ensure good governance of BGI, i.e., appropriate planning, design, construction, and maintenance. We have explored the gap between data availability and implementation of BGI in urban planning authorities in Sweden. Through interviews with urban planners and experts on Geographical Information System (GIS) and BGI, we have developed a framework for structured and user-friendly data collection and use (Fig. 1) that has been validated in workshops with professionals. Identified challenges concern data availability, data management, and GIS knowledge. There is a need to improve the organisation of data management and the skills of trans-disciplinary cooperation to better understand and interpret different types of data. Moreover, different strategic goals require different data to ensure the efficient planning of BGI. This calls for closer interactions between the development of strategic political goals and data collection.

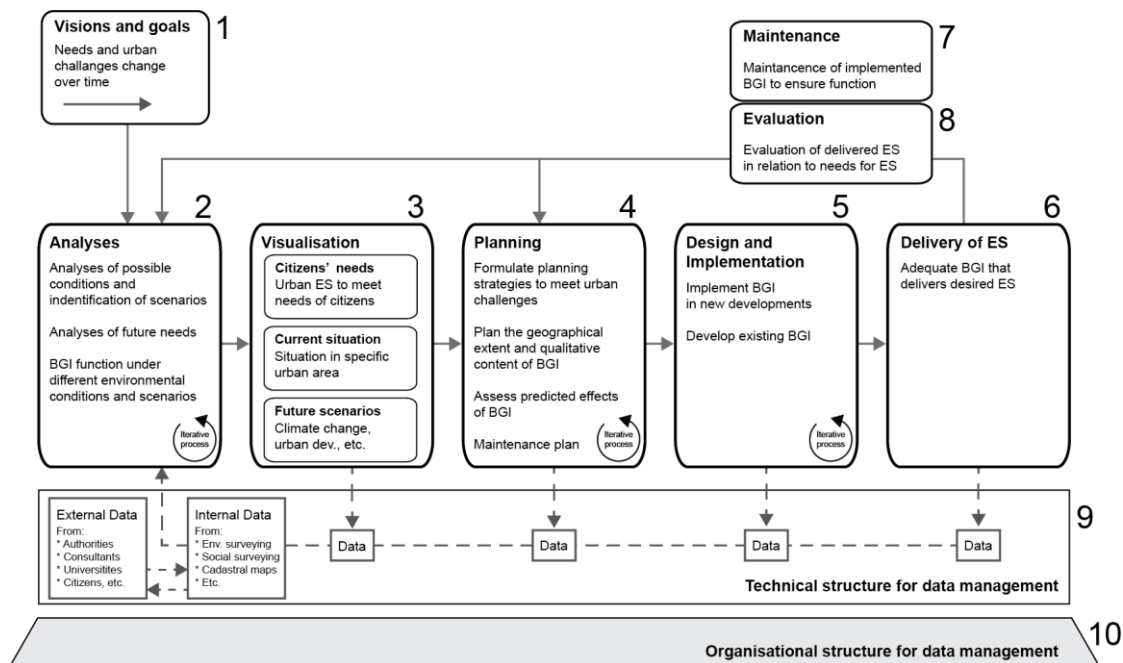


Figure 1. Part of the framework for improved information flows in urban planning of BGI.

Session: Climate Justice and Welfare Change – session 5c (The Hydrosphere – session 5a)

Format: Oral presentation

Consent: The presenting author is acting on behalf and with the consent of all authors of this contribution.