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Nature-based solutions for urban resilience

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Nature-based solutions have the potential to provide a wide range of essential ecosystem services as well as water management goals. As the majority of the global population lives in cities, NBS for addressing water management in urban areas is of great importance. Despite the recent advances and growing experiences with the implementation of NBS, there is still below 1% of the total investment in water resource management infrastructure that is dedicated to NBS in urban areas? One of the current obstacles for implementation is the lack of knowledge, data and information about the design and implementation of NBS for water management. Although there has been a growing interest in NBS in recent years, there are still a large need for a comprehensive evidence based on the effectiveness of NBS. Therefore, there is also a need for monitoring both the process of implementing NBS as well as the outcomes, including the final benefits of the NBS, how the NBS is perceived and how it responds to the challenge for which it was implemented. The aim of this study is to assess the effectiveness of nature-based solutions (NBS) for urban resilience in particular for water management in different climate zones, focusing on cities that have worked or are planning to work extensively with NBS. This study explores which opportunities and barriers current regulatory frameworks and management practices imply and how the former can be reaped and the latter overcome, for implementation of effective NBS. The study focuses on the analysis of available data bases of NBS in different cities This study also creates an inventory of indicators used to assess the NBS effectiveness, covering a range of social, economic and technical aspects.