

## **Session 1C - Direct and indirect benefits of water and vegetation in healthy corridors**

14:30 - 16:00 Friday, 17th June, 2022

Scientific Day - Theme 1. Co-creating NBS for Sustainable Cities

Presentation type Oral

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Water is a fundamental component of the urban ecosystem. It is a form of nature in the city that has multiple anthropic uses and must be managed in order to control potentially damaging effects (flooding, soil and water contamination, etc.). This issue can be approached from the point of view of both the environmental and social sciences, or a combination of these to offer a systemic overview of the subject. In cities, water-related NBS refer to certain well identified forms: constructed wetlands, swales, de-sealed areas, reopened streams, the remeandering and reprofiling of rivers, etc. The challenges and benefits of restoring the water cycle at a neighbourhood scale, such as improving biodiversity and managing flood risks, are well documented. This session will focus more on the NBS where water is "hidden". Indeed, some NBS, not directly associated with water, are nevertheless highly dependent on it. These are NBS that involve vegetation, especially when it is irrigated: green spaces, vegetable gardens, etc. Also applicable are NBS participating in urban cooling by means of shading effects, and includes the evapotranspiration process. Such NBS are often characterized in relation to their use of vegetation, but the process also relies on the availability of water. In order to develop a more systemic vision of water management, the session will also address the questions that are raised by the human and social sciences. Water-related NBS can also involve conflicts of usage: irrigation and water sharing, layout of renatured rivers, etc. The session will also focus on the perceptual aspects of this type of NBS such as safety and associated nuisances (mosquitoes, odours, etc). Scientific papers and policy briefs proposed by researchers and practitioners will be welcomed.