

# LID Tree Planting: Utilizing Urban Trees for Stormwater Management

## **Description:**

Using urban trees as green infrastructure for our cities is arguably the most sustainable stormwater management solution available. Drainage problems arising from increasing levels of urbanization have exacerbated the limitations of conventional surface-water drainage measures. The possibilities there are to turn stormwater runoff from a hindrance to an opportunity are limitless. Street trees can be essential components to the management of stormwater in urban areas. Specifically designed urban tree pit systems can effectively and sustainably mitigate stormwater challenges and significantly reduce the velocity and flow rate of surface water runoff, contributing towards meeting the required discharge rates, while filtering out harmful pollutants and contaminants carried in surface water. This session will provide attendees with a broad understanding of the latest techniques and design strategies for utilizing street trees for managing stormwater. Global and regional case studies and success stories will be used to illustrate the capabilities and sustainability potential of such schemes. Civil engineers and landscape architects can put this knowledge to practice in their urban streetscape designs, while policy makers can use the statistics and information to further expand and improve their sustainable stormwater initiatives. This presentation uses GreenBlue Urban's 25 years of field experience, in conjunction with world-renowned researchers, such as the University of Abertay Dundee, to examine the opportunities available for integrating stormwater management into urban tree planting for truly sustainable urban landscapes.

## **Presentation Length:**

1 Hour, including Q&A if applicable (can be shortened if required)

## **Learning Objectives:**

1. Learn about options for integrating stormwater management with urban tree planting in the designing of landscapes
2. Understand how stormwater utilized with tree planting benefits the landscape and infrastructure
3. Gain understanding of what is being achieved on a global scale utilizing these types of systems and designs to create sustainable infrastructure