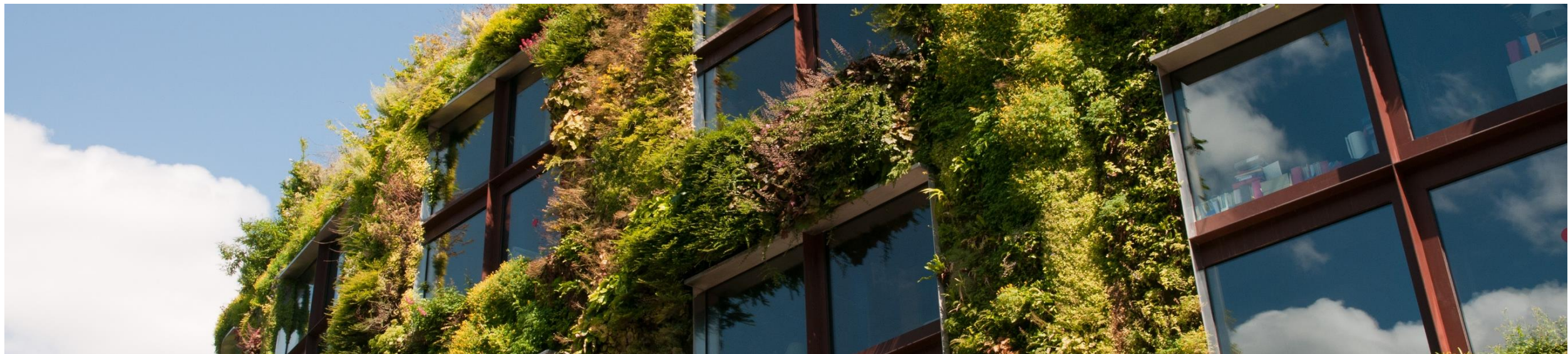




Green cities for climate and water resilience, sustainable economic growth, healthy citizens and environments

Nature-based solutions implementation: Learning from the Grow Green cities



About GrowGreen



- **Horizon 2020 project** under topic SCC-02-2016: Demonstrating innovative NBS for climate and water resilience in cities
 - European Commission contribution of **11.2 million EUR**
 - Involves **23 partners** and is coordinated by Manchester City Council
 - **Five-year project**, start date 1 June 2017
 - Partners with the cities of Manchester (UK), Valencia (Spain), Wroclaw (Poland), Wuhan (China), Brest (France), Zadar (Croatia) and Modena (Italy)
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GrowGreen's objectives



- 1) **Benefits:** demonstrate that NBS/Green Infrastructure (GI) delivers quantifiable climate resilience and other benefits
 - 2) **Replicable process:** demonstrate a replicable process for the co-design, co-delivery and co-management of NBS/GI projects
 - 3) **Systemic change:** embed NBS/GI as part of long-term city planning, investment, development and management
 - 4) **EU:** contribute to EU 'Community of Practice' on NBS and capacity building in other cities
 - 5) **Global:** establish EU leadership and support global market for NBS
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GrowGreen vision



- **Investing in nature-based solutions (NBS)** creates cities that:
 - are climate and water resilient
 - are healthy and liveable
 - have social, environmental and economic benefits
- NBS are **innovative and inspiring solutions** to urban challenges
- Embedding NBS in **long-term city planning** creates harmony between people, the economy and the environment

GrowGreen website: growgreenproject.eu

GrowGreen on Twitter: [@GrowGreenCities](https://twitter.com/GrowGreenCities)

Where are the GrowGreen cities?



Timeline of activities

GROWGREEN Implementation of NBS demonstration projects

2019



BREST

Brest's implementation of the Jardin de Keravelloc pilot project including daylighting of the River Sprenot with an expanded area to allow it to flood

VALENCIA

Valencia's Vertical Ecosystem, a green wall with planting incorporating some innovative irrigation systems within the design and providing a wastewater recycling system, constructed at Artista Faller Primary School in the Benicalap area of Valencia

WROCLAW

Wroclaw's completion of demonstration projects, including six renovated courtyards and a green street

2020



VALENCIA

Valencia's green roof constructed in an activity centre for older citizens. The main function is to evaluate the energy and CO2 savings, whilst also offering thermal insulation and protection, enhanced biodiversity, CO2 storage and water management

MANCHESTER

Opening of Manchester's West Gorton Community Park and a number of pocket parks, designed to 'drink water' with the use of SUDS and addressing climate change issues, flooding and heat island effect for the benefit of the community.

MODENA

Modena's completion of the core of the pilot project at Cazzola Canal to manage flood peaks and water quality in canal waters

2021



VALENCIA

Valencia's completion of last demonstration projects:

- a small forest to manage rainwater on an empty plot of land adjacent to the Benicalap Park in Valencia, allowing accessibility and pedestrian connection into the neighbourhood
- a blue-green corridor to link existing green spaces, using street tree planting and street furniture and incorporating optimum water management and creating climatic comfort using Nbs



Grow Green

Lessons learnt



Challenges encountered



| Manchester | Valencia | Wroclaw | Campinas |
|--|-----------------------------------|---------------------|------------------------|
| EARLY MUNICIPAL DEPARTMENTS ENGAGEMENT | ADMINISTRATIVE MANAGEMENT EFFORTS | AWARENESS | LACK OF BELONGING |
| PROCUREMENT | SLOW NATURE TIMING | PROCUREMENT | MEETING DEMANDS |
| CONSTRUCTION SKILLS | NO IMMEDIATE RESULTS | EDUCATION ON NBS | TECHNICAL RESOURCES |
| | | LESS SPACE FOR CARS | |
| | | | MAINTENANCE RESOURCE |

Webinar's objectives



- Understand the **drivers** behind the cities' decisions to implement NBS projects
- Overview of the expected **outcomes** and **benefits** of urban NBS projects
- Overview of **achievements**
- Overview of the **lessons learnt**, including success stories and challenges encountered
- Discussion with the audience on the **barriers** and **opportunities** for NBS implementation in cities



Thank you!



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