

Grow Green

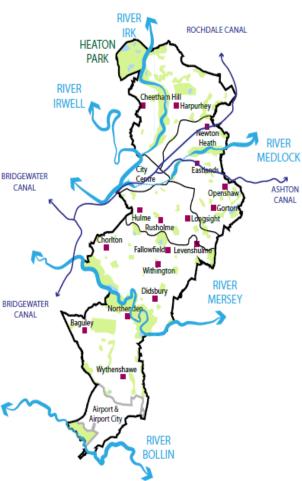
Delivering nature based solutions in city neighbourhoods









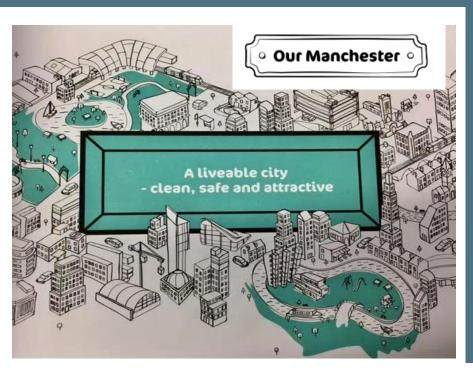




Our Manchester:

A vision for the Future

Developed by Manchester Leaders Forum



The Vision:

To be in the top flight of world class cities by 2025

Priority themes

- Thriving and Sustainable
- Highly Skilled
- Progressive and Equitable
- Live-able and low Carbon
- Connected

The Our Manchester Approach:

- Better lives
- Working Together
- Listening
- Recognising Strengths

Links to GI:

 Gi Strategy delivery is identified as a gauge of successful delivery



Manchester Climate Change Strategy 2017 - 50

Implementation Plan 2017-2022



Manchester Climate Change Strategy 2017-50

Headline Action

Manchester will be Zero Carbon by 2050

Key Themes

Buildings
Transport
Energy
Resources and Waste
Food
Green Spaces and Waterways

Implementation Plan:

To oversee and champion successful delivery of the Mcr GI Strategy



Manchester's Great Outdoors:

A Green infrastructure Strategy for the City Approved At Executive July 2015



Technical Report

The technical report details the spatial analysis and economic evidence of the benefits of Green and Blue Infrastructure in Manchester

Strategy:

The strategy report utilises the evidence base to set out a vision for Green Infrastructure in Manchester, developing the objectives and principles to be followed in realising that vision.

Implementation Plan:

The implementation plan contains a series of headline actions with specific projects identified to deliver the objectives of the strategy.



Nature Based Solutions — Actions inspired by nature







Principles:

- Enhancing Sustainable Urbanisation
- Restoring Ecosystems
- Developing climate change adaptation and mitigation
- Improving risk management and resilience

Why now:

- Momentum for change
- Recognising the value of nature
- Business case



Nature Based Solutions – in practice

















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

<u>Green Cities for Climate and Water Resilience, Sustainable Economic Growth,</u>

<u>Healthy Citizens and Environments</u>

Coordinated by Manchester City Council

Funded by European Commission Horizon 2020 Programme (SCC-02-2016)

Core objectives



- 1) Benefits: demonstrate that NBS/GI delivers quantifiable climate resilience and other benefits
- 2) Replicable process: demonstrate a replicable process for the codesign, 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' and capacity building in Other Cities
- 5) Global: establish EU leadership

Basic Information



Project title: GROW GREEN

Topic: SCC-02-2016: Demonstrating innovative nature-based solutions for climate and

water resilience in cities

Instrument: Innovation Action

EC contribution: EUR 11.2m

Start and End dates: 01/06/17 – 31/05/22

Project Coordinator: Manchester City Council

Key Words: climate resilience, water resilience, sustainable economic growth, healthy citizens, urban policy, green and blue infrastructure, stakeholder engagement

Core Objectives/EC Requirements Grow Green

- Demonstrate that NBS/GI delivers quantifiable climate resilience and other benefits
- 2) Demonstrate a replicable process for the co-design, co-delivery and comanagement of NBS/GI projects
- 3) Embed NBS/GI as part of long-term city development and management
- 4) Demonstrate replicable governance and business models for NBS/GI investment
- 5) Contribute to EU 'Community of Practice' and Capacity Building in Other Cities

Strategic Fit



EC Call Criteria	Manchester G&B Strategy and Implementation Plan	
Demonstrate : how to physically deliver green and blue infrastructure as part of complex, dense, urban environments that could most benefit from these interventions.	Objective 2: 'use appropriate green and blue infrastructure as a key component of new developments to help create successful neighbourhoods and support the city's growth'.	
Business models : demonstrate business models that mobilise financial investment and resources in the design, delivery and long-term management of green infrastructure projects.	Headline action: 'develop research into the benefits of GI for residents, the economy and the environment to provide	
Benefits of G&B : quantify the benefits that G&B provides in cities in terms of reduced flood risk, reduced heat stress, and other co-benefits, including health, property values, air quality, water quality, biodiversity etc.	the basis for new policies, projects, programmes and investment mechanisms'.	
Positioning and competitive advantage : the EC want to position Europe, European cities and European businesses as recognised global leaders and position them to exploit overseas business opportunities	Headline action: 'raise the profile of Manchester as an attractive place to live, work and visit, with access to high quality GI within and beyond Manchester.'	

Partners



Cities and demonstration project partners

Manchester: MCC + Guinness

Partnership

Valencia

Wroclaw

Brest

Zadar

Modena

Wuhan

Universities

University of Manchester
Valencia Polytechnic University
Wroclaw University of Environmental
and Life Sciences
University of Cambridge

Technical experts

Trinomics

International Union for Nature

Conservation + HQ

Leitat

Bipolaire

OuiShare

Economic development and innovation agencies

Greater Manchester Combined Authority

(Manchester)

InnDEA (Valencia)

AWAW (Wroclaw)

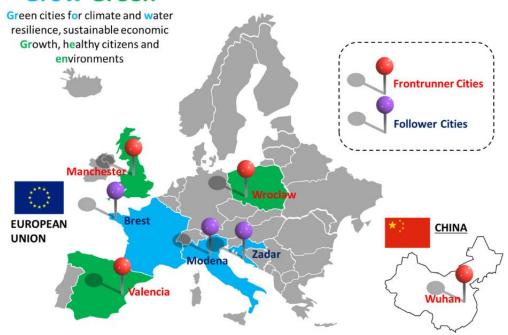
Project, technical and innovation management

Manchester Climate Change Agency

Tecnalia



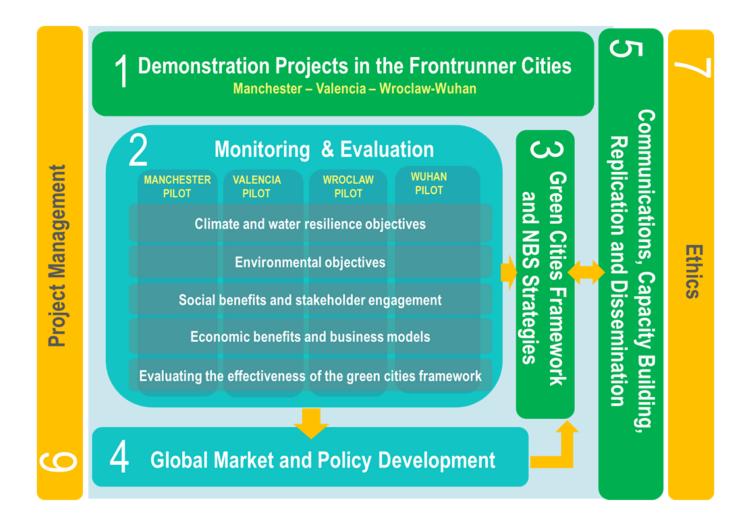
Grow Green



Climate risk	Frontrunner	Follower
Flood risk	Manchester	Brest
Heat stress	Valencia	Zadar
Both	Wroclaw	Modena
China	Wuhan	Sponge Cities

Work Packages





Work Package One – Demonstration Projects - West Gorton



Objectives:

Flood risk management-culverted Corn Brook.

Environmental- Improve Biodiversity, improve air quality, reduce noise pollution, improve quality of water discharged to Corn Brook, Reduce CO2 emissions.

Social benefits and stakeholder engagement- community cohesion, health.

Economic Benefits- marketable of new homes, reduce surface water management charges, skills and jobs for local residents.

Partners- MCC, Guinness Partnership, University of Manchester.

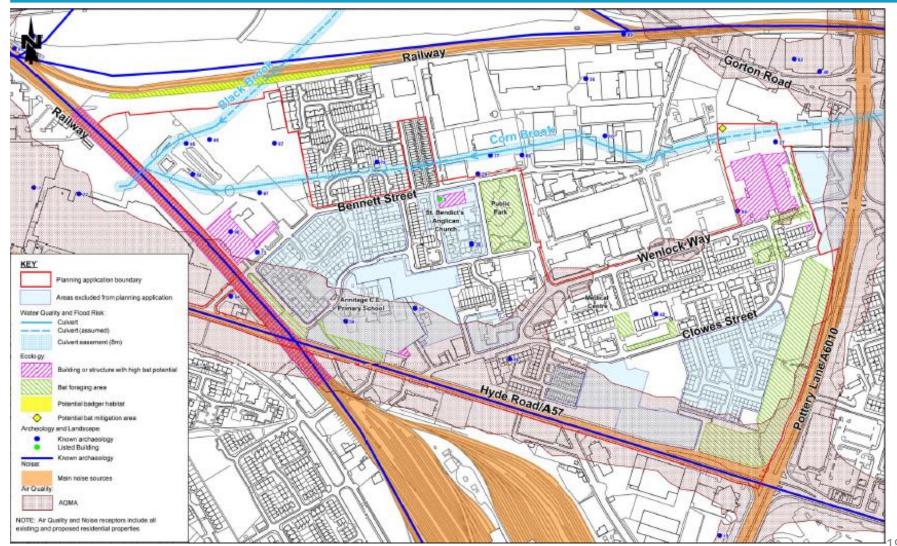
Scope of work- development of Green Infrastructure masterplan, develop green streets, trees, rain gardens, drainage channels, community food

Progress- currently tendering for Landscape Architect and lead partner for community consultation.

growing etc.

West Gorton Demo project





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West Gorton Demo project







West Gorton Demo Project



Aim: contribute to the delivery of the West Gorton Regeneration Programme, in line with previously agreed MCC commitments



Landscape Strategy - Option 2 - Linear Park

History

Typicing Bry Octors &

Principarity

BEFFE RESERVED BY

Wood brid Logs.

Intentibles Community Contras

Home Jose Challeton

Pak Transloss

Kudegi Cycle Calo

BRIDGE INTERSPERS

Ranka Tarkani

Ranka Tarkani

Caren Tarenta Carenta Ca

A sustainable multi-functional green space for the estate, providing eco-duct services, play and a social hub and linking strategically to adjacent green links

- 1. Linear Park
- 2. High Street
- 3. Wildflower Meadows
- 4. Woodland Edge
- 5. Home Zone Character
- 6. Urban Plaza
- 7. Green Street Connection
- 8. Fitness Station
- 9. Park Transitions

1. Linear Park



2. High Street



3. Wildflower Meadows



4. Woodland Edge



5. Home Zone Character



9. Park Transitions



8. Fitness Station



7. Green Street Connection



6. Urban Plaza



Work Package Two – Monitoring & Evaluation



Common EU framework of objectives and sub-objectives - Eklipse:

Climate & water

Environment

Social and stakeholder involvement

Economic

Flexibility on KPIs

+ MAES & other projects

Universities: Manchester, Valencia, Wroclaw

Work Package Three – Developing City Wide NBS Strategies



Common EU framework of objectives and sub-objectives - Eklipse:

Climate & water

Environment

Social and stakeholder involvement

Economic

Flexibility on KPIs

+ MAES & other projects

Universities: Manchester, Valencia,

Wroclaw

Scope of work- create a methodology, for definition of NBS strategies, develop the framework, develop a neighbourhood and site level design tool, update NBS strategies in Demo Cities, produce NBS strategies in Follower Cities.

Work Package Four – Global Market & Policy Development



Objectives:

To promote market development of NBS for climate and water resilience in Cities and exploit the commercial opportunities of the NBS market. Conduct market analysis of NBS products and services. Identify and assess policy instruments Assess business models applied in demo cities to support initiatives in follower cities. Develop policy recommendations to

drive NBS market growth

Scope of work- evaluate the size and potential of the NBS market, identify drivers and barriers, identify policy instruments, develop business models, make policy recommendations.

Work Package Five – Communication, Capacity Building, Replication & Dissemination



Objectives

Support the implementation of NBS in the **Frontrunner Cities** and upscale to wider metro areas. Support the implementation of NBS strategies in **Follower Cities**. Support the development of NBS strategies in **Cities around the world**.

Create a community of practice in **Europe and globally**.

Scope of work-develop the plan, develop a green cities training programme, engage with City and regional policy makers and practitioners, cross city citizen engagement programme, establish replication Cities, engagement with European business, develop China EU NBS platform, organise study visits.

High Level Work Programme



Early-May 2017 – Grant Agreement signed by MCC

End-May – Grant Agreement signed by all partners

1st June 2017 – project start

13-14th June 2017 – kick-off meeting

January 2018 – progress report 1 (M9)

June 2017 to May 2018 – design of demonstration projects

June 2018 to Dec 2019 – delivery of demonstration projects

Sep 2019 – progress report 2 (M27)

Jan 2020 to Dec 2021 – monitoring & evaluation of demonstration projects

May 2021 – progress report 3 (M48)

Jan to May 2022 – final report and project close (M60)



Thank you!

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