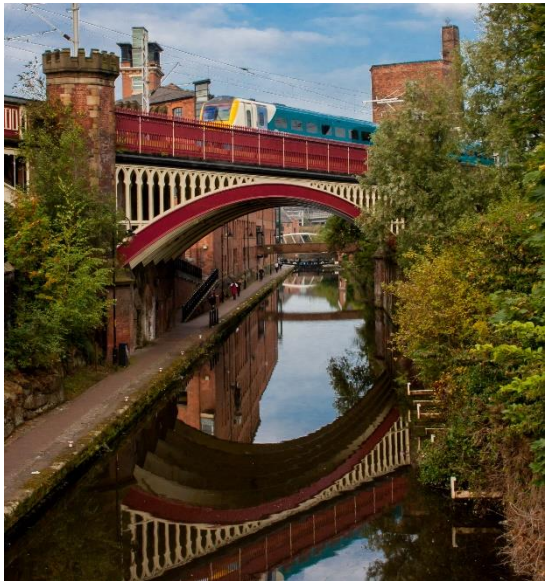


# The Nature of Manchester: Green and Getting Greener





**OUR  
MANCHESTER**

Manchester's  
Local Plan

Manchester  
Climate Change  
Action Plan

**MANCHESTER'S  
GREEN AND BLUE  
INFRASTRUCTURE  
STRATEGY**

Biodiversity  
Strategy

Park  
Strategy

Tree and  
Woodland  
Action Plan

# Manchester's Great Outdoors: In Numbers



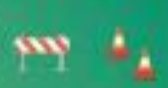
**1.7MILLION**  
people attending events  
and activities in  
parks and open spaces



**11,000**  
events delivered



**29.5 JOBS**  
created



**£800,000**  
worth of  
volunteer support



**12,500**  
trees planted



**£77MILLION**  
committed to  
GI projects



**12 KILOMETRES**  
of waterways  
improved



# Turning Policy into Practical Action

Our approach aims to create an evidence-base that facilitates local decision making and must therefore take a number of factors into consideration:

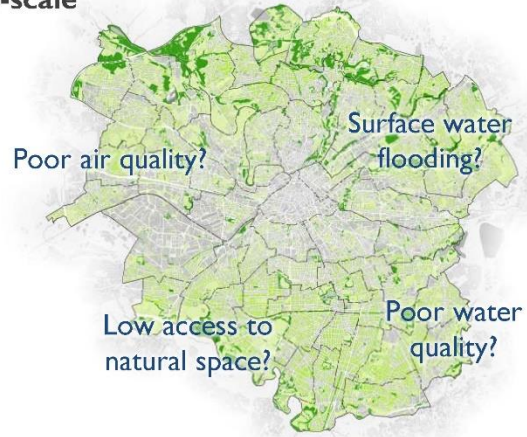
- 'Needs' of the community
- 'Wants' of the community & local policy-makers
- Where are there opportunities for action,
- Suitability/capacity of the landscape to receive interventions





# Strategic Targeting

Assessment of benefits and needs at city-scale



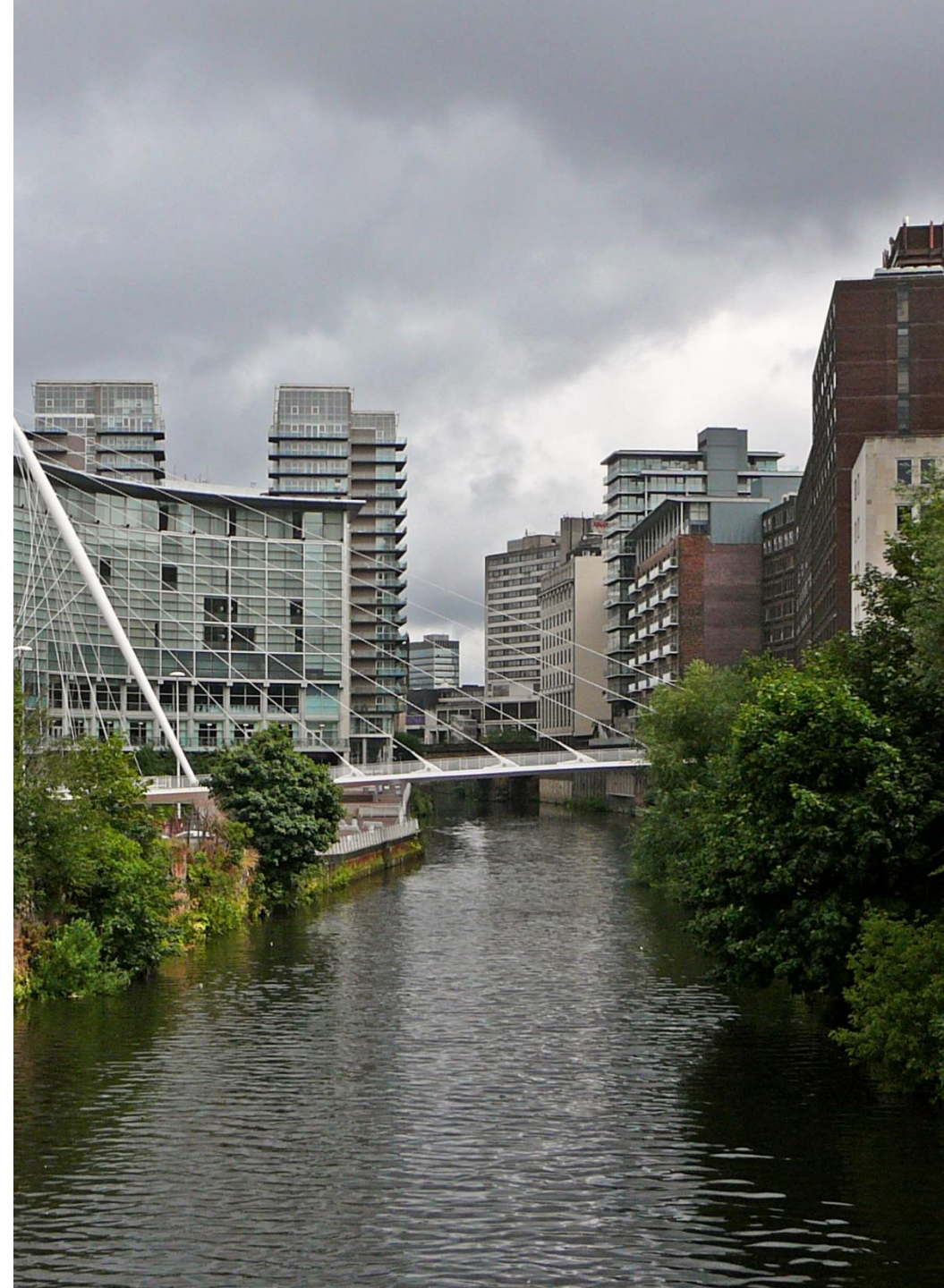
Identification of target area



Assessment of opportunity and feasibility



Review of toolbox



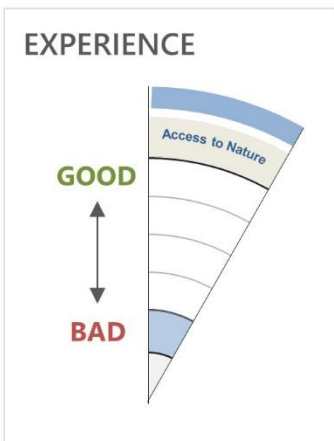
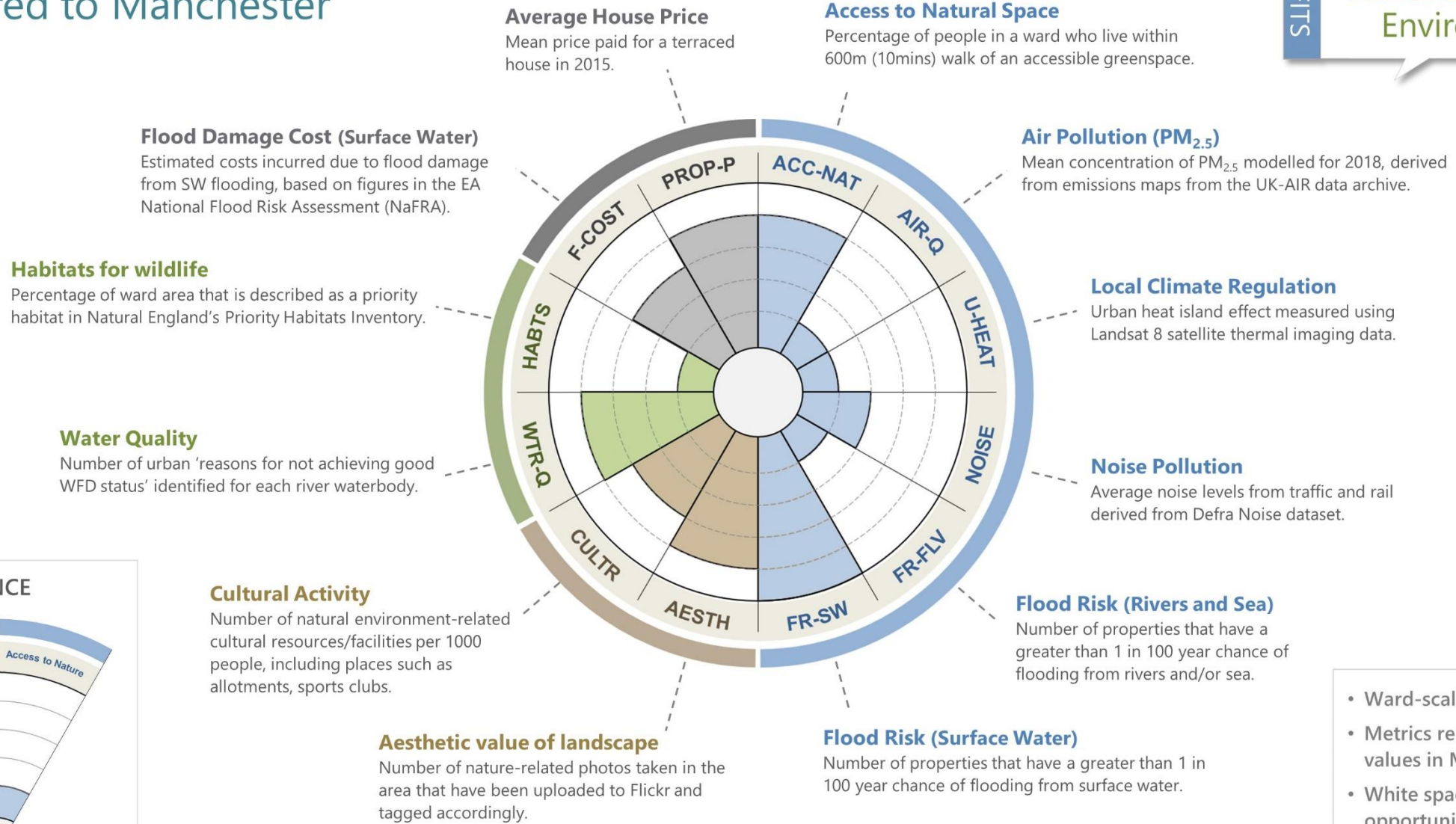


# NET-BENEFITS WHEELS

## Tailored to Manchester

**BENEFITS**

Economic  
**Cultural Social**  
 Environmental



- Ward-scale analysis
- Metrics represent range of values in Manchester
- White spaces represent opportunity for improvement



# Consistent Dataset Appraisal

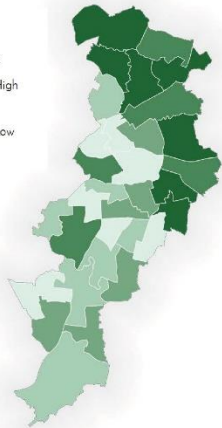


## INDICATOR 1

Access to green & blue spaces

Ward-level assessment

KEY:  
Benefits  
High  
Low



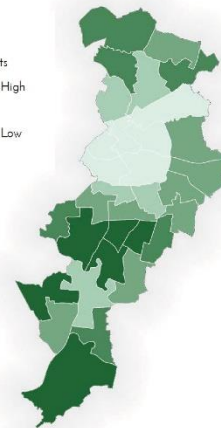
This map shows the natural spaces included in the analysis; accessible green spaces greater than 1ha, accessible water environments, and footpaths and minor roads through greenspaces.

The indicator used for this assessment shows the percentage of people in a ward who live within a short 600m (10mins) walk of an accessible green- or blue-space.



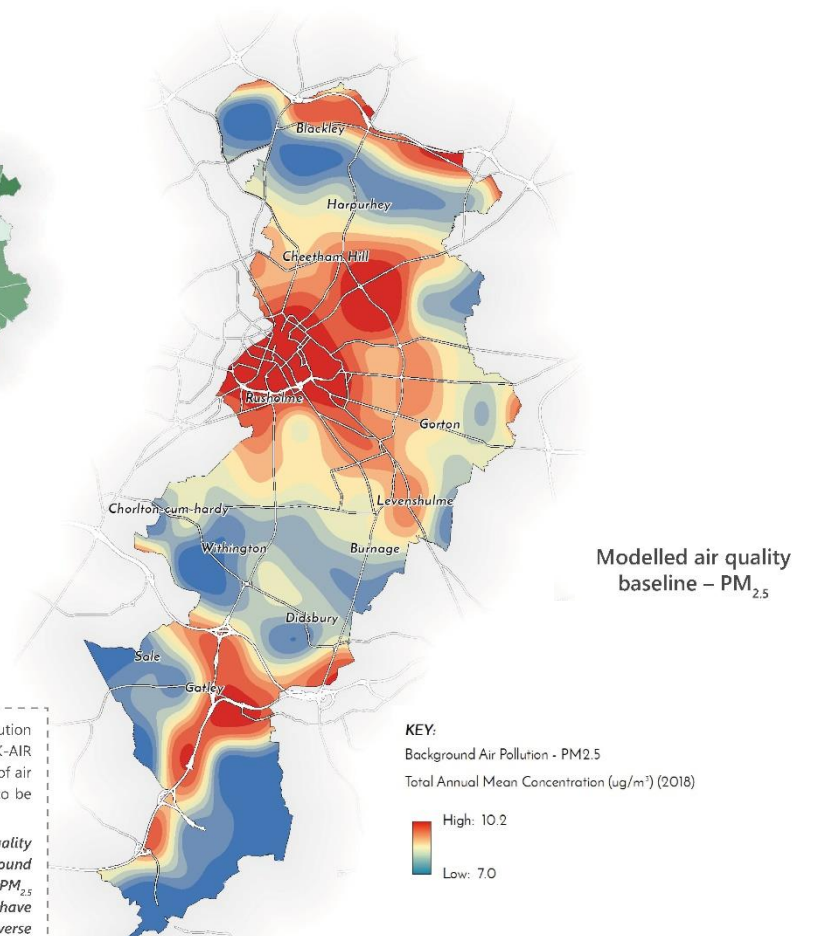
Ward-level assessment

KEY:  
Benefits  
High  
Low



The estimated background air pollution maps available from the Defra UK-AIR website enable the concentrations of air pollutants such as PM<sub>10</sub> and PM<sub>2.5</sub> to be mapped across the city.

The indicator used to indicate air quality in this study is the mean background concentration of PM<sub>2.5</sub> in 2018. PM<sub>2.5</sub> was selected as it is considered to have the strongest correlation with adverse health impacts



## INDICATOR 2

Impacts of air pollution

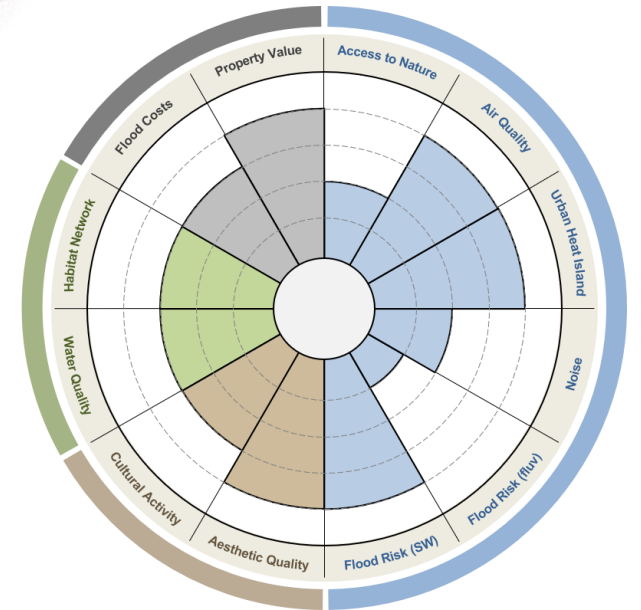
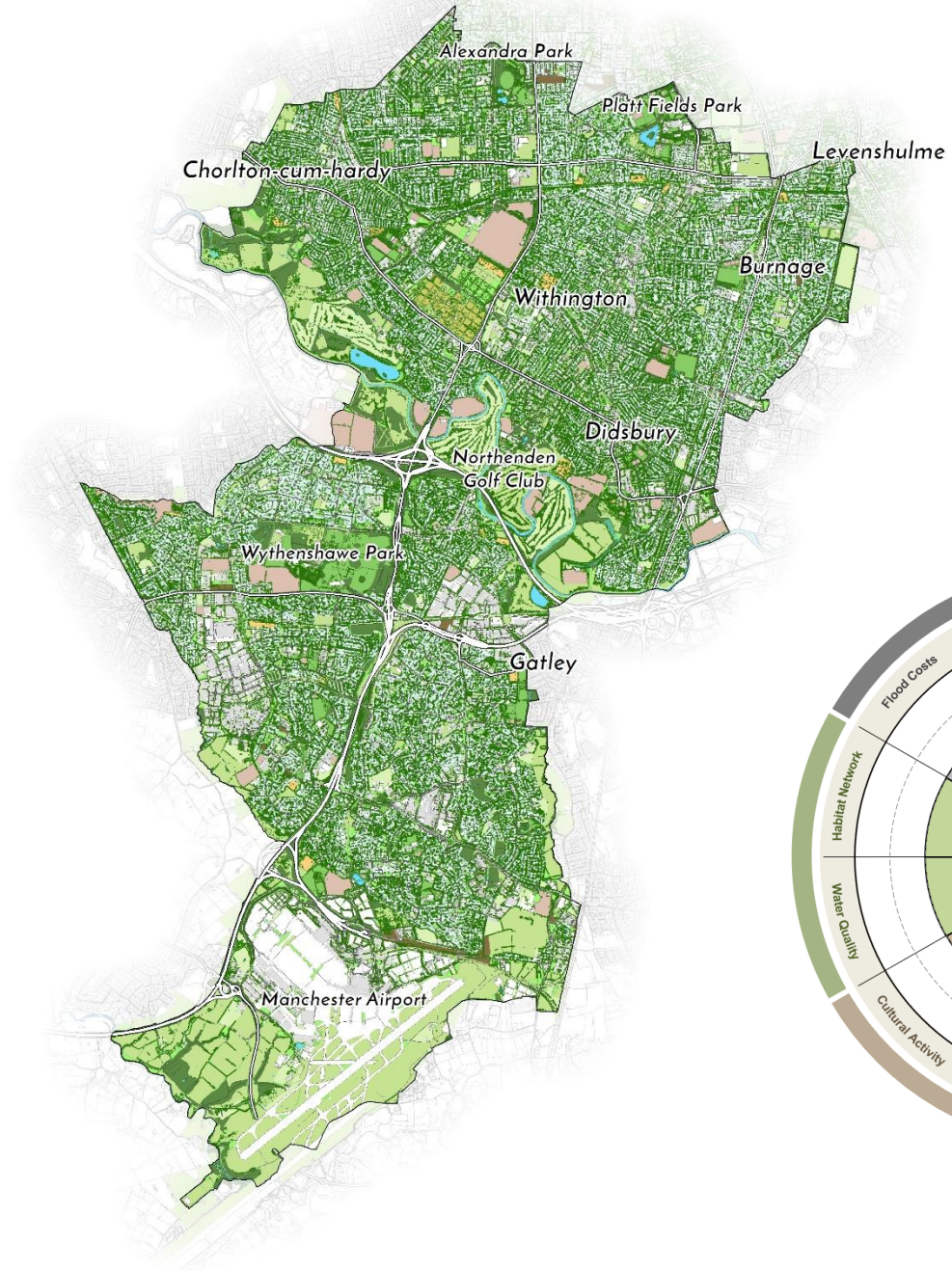




# Net-Benefits Wheel can provide area-based comparisons

## KEY:

-  Tree
-  Allotment, community garden or urban farm
-  Cemetery, churchyard or burial ground
-  Derelict land
-  General amenity space
-  Grassland, heathland, moorland or scrubland
-  Institutional grounds
-  Orchard
-  Outdoor sports facility
-  Park or public garden
-  Private domestic garden
-  Residential flat garden
-  Water body or water course
-  Wetland
-  Woodland





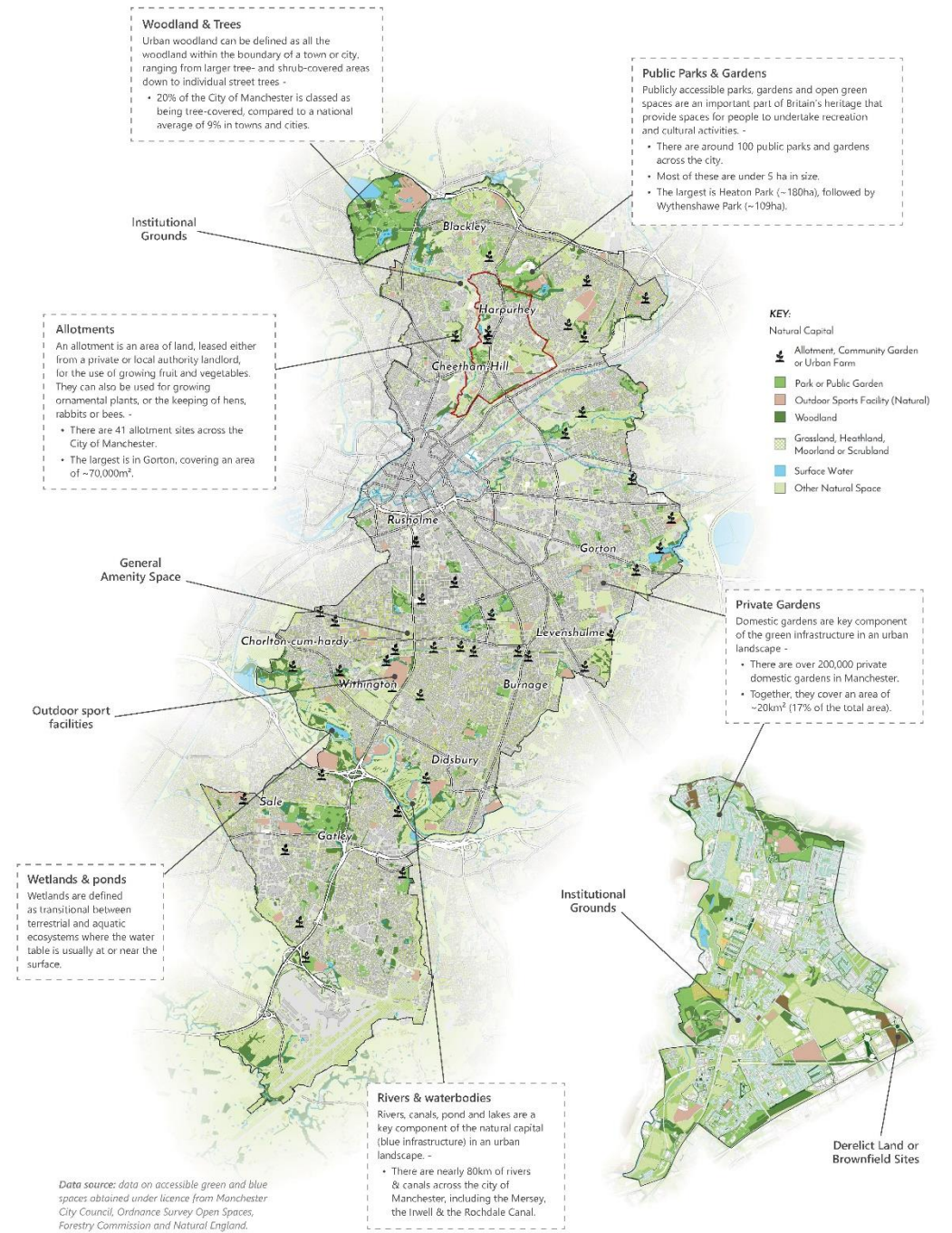
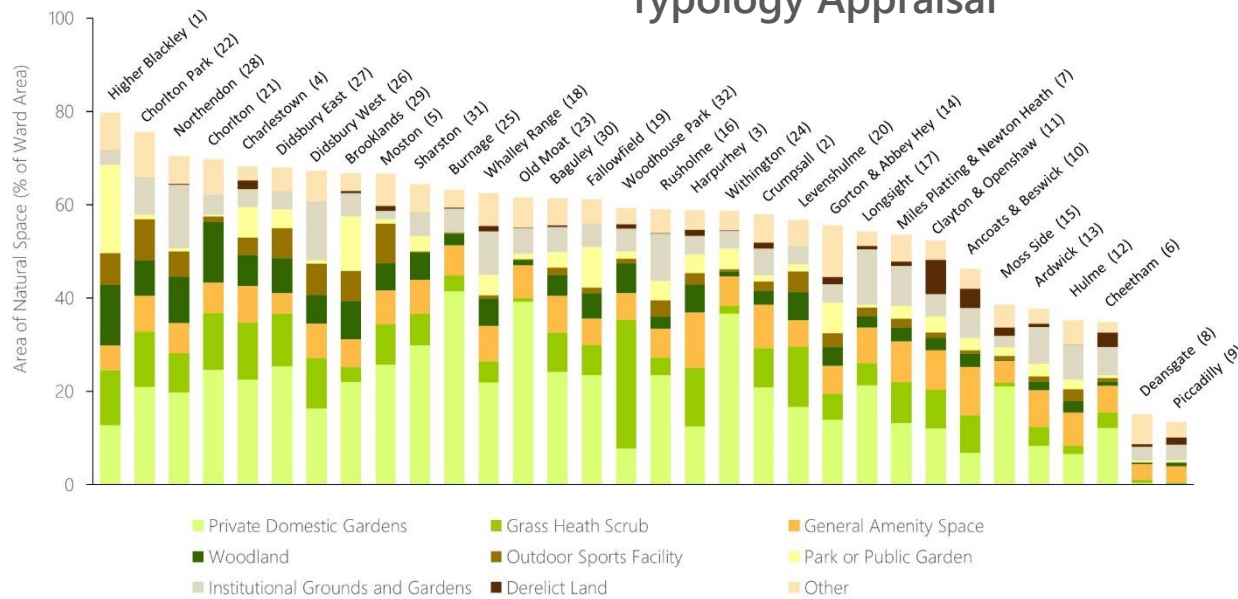




# Natural Capital Review

## Characterising the green & blue infrastructure assets of Manchester

Area of GI per ward area:  
Typology Appraisal

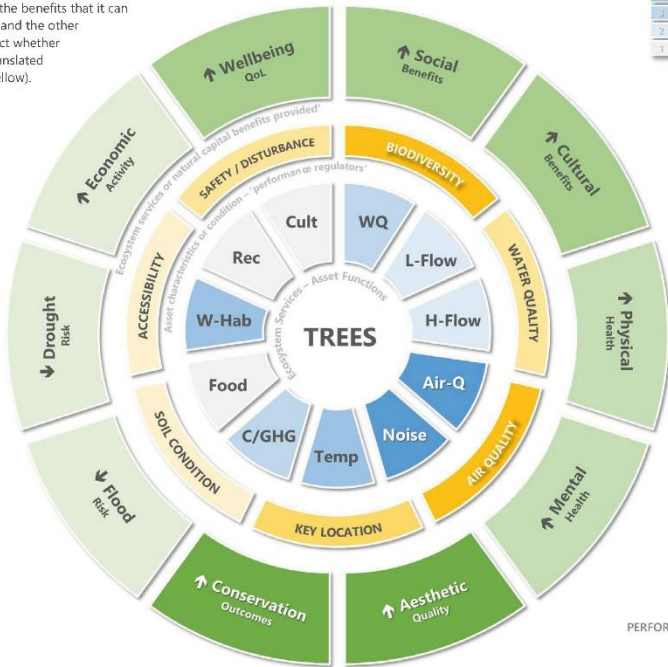


Data source: data on accessible green and blue spaces obtained under licence from Manchester City Council, Ordnance Survey Open Spaces, Forestry Commission and Natural England.



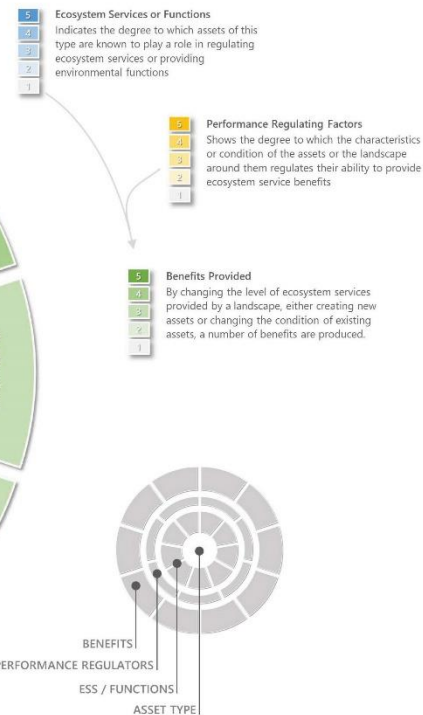
# Detailed GI asset appraisal: Trees

This wheel shows the ecosystem services that a GI typology or nature-based solution (NBS) can regulate (blue), the benefits that it can provide (green) and the other factors that effect whether functions are translated into benefits (yellow).

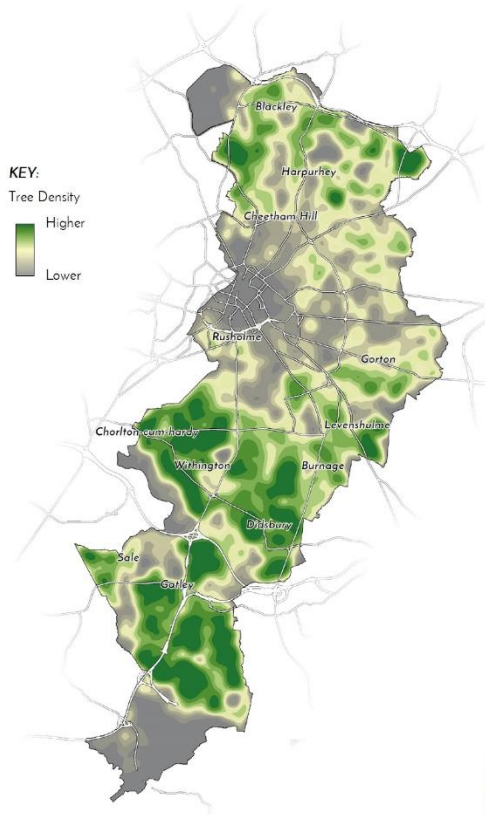


## ECOSYSTEM SERVICE CODES

- |  |   |   |
|--|---|---|
| <b>WQ</b> Regulation of water quality                  | <b>Noise</b> Reduction of noise/light pollution | <b>W-Hab</b> Habitat for wildlife – pollinators & pests |
| <b>L-Flow</b> Regulation of water quantity – low flows | <b>Temp</b> Regulation of local temperatures    | <b>Rec</b> Opportunities for recreational activities    |
| <b>H-Flow</b> Regulation of water quantity – high flow | <b>Food</b> Production of food                  | <b>Cult</b> Opportunities cultural activities           |
| <b>Air-Q</b> Purification of air                       | <b>C/GHG</b> Carbon/GHG/climate regulation      |   |

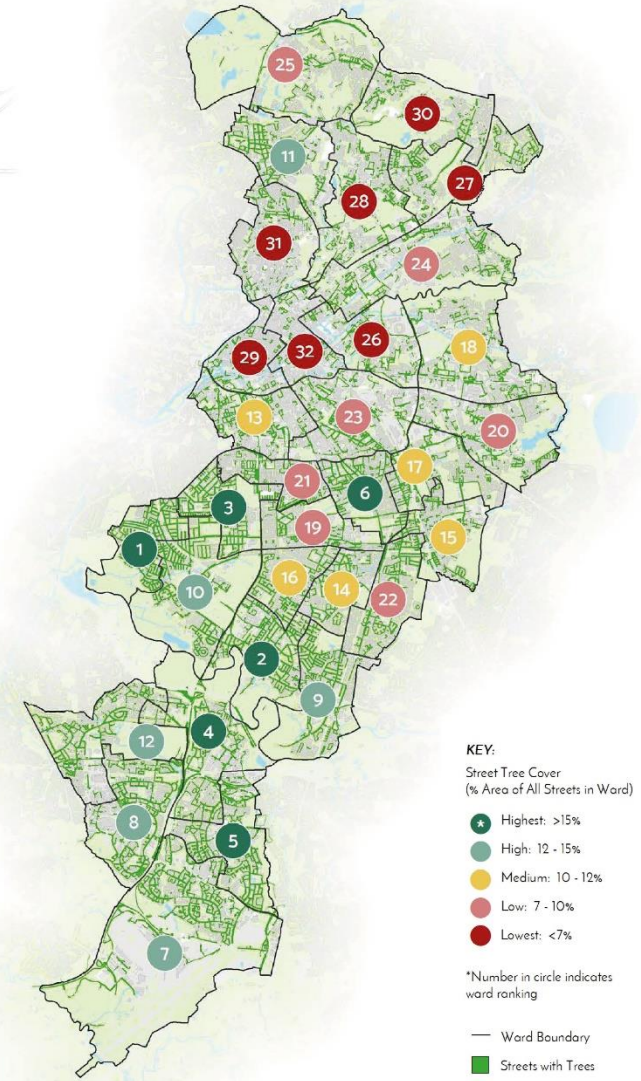


**KEY:**  
Tree Density  
Higher  
Lower



**Tree density**  
The density of trees across the City of Manchester is shown (left).

**Tree coverage by ward**  
This map (right) shows the 32 wards in Manchester ranked according to the proportion of their road length that has street trees present. The streets with trees present are shown. The highest ranked wards were found to have >15% of their streets with trees present, while the lowest (in the city centre) were found to have <7% of their streets with trees





# Urban 'Toolbox': Trees & Woodland

## Feasibility for tree planting

Streets with space to receive additional trees (pavements >2.5m wide, >4m from buildings and without existing trees) have been mapped to identify opportunities for planting additional street trees (below and inset). These areas can be compared with known pressures or problems (such as poor air quality or poor surface water management) to prioritise and target actions.

Street tree opportunity map - inset



Example:  
Hulme Ward



Street tree opportunity map

## Potential for Street Trees:

- Roadside (>2.5m width & 4m from buildings)

## Costs of maintenance

Maintenance costs: 0.1£/m<sup>2</sup> for managed woodland in managed greenspace. Higher for singular trees. Main costs: Pruning Maintenance will be lower the better the tree is suited to the conditions – e.g. soil type, water supply, size of tree pit.

## Costs of implementation

Instalment costs: £15-400 per tree (including planting). Relative costs decrease with increasing number of trees. Dependent on: Species and age of the tree, location of planting.





## GI Legacy:

Nature of Hulme - focussed neighbourhood GI-planning



## NATURE OF HULME

Community-led action to improve access to nature and green spaces in Hulme





# GI Legacy

## 46 Case Studies & 'My Wild City'



Lancashire,  
Manchester &  
N Merseyside

KEEP UP TO DATE WITH MY WILD CITY

- WEBSITE [www.lancswt.org.uk/mywildcity](http://www.lancswt.org.uk/mywildcity)
- FACEBOOK @GMLancsWildlifeTrust
- TWITTER @lancswildlife
- INSTAGRAM @lancshirerwildlifetrust

If you would like to find out more about how you can get involved in the My Wild City project, please don't hesitate to get in touch with a member of the team.



MANCHESTER CITY COUNCIL

ef Esmée Fairbairn FOUNDATION

The Lancashire Wildlife Trust is a registered charity (number 229325) and a registered company (number 731548). VAT No. 6046679 29



# GI Legacy: International Partnerships

## European conference: Innovative financing for creating green cities



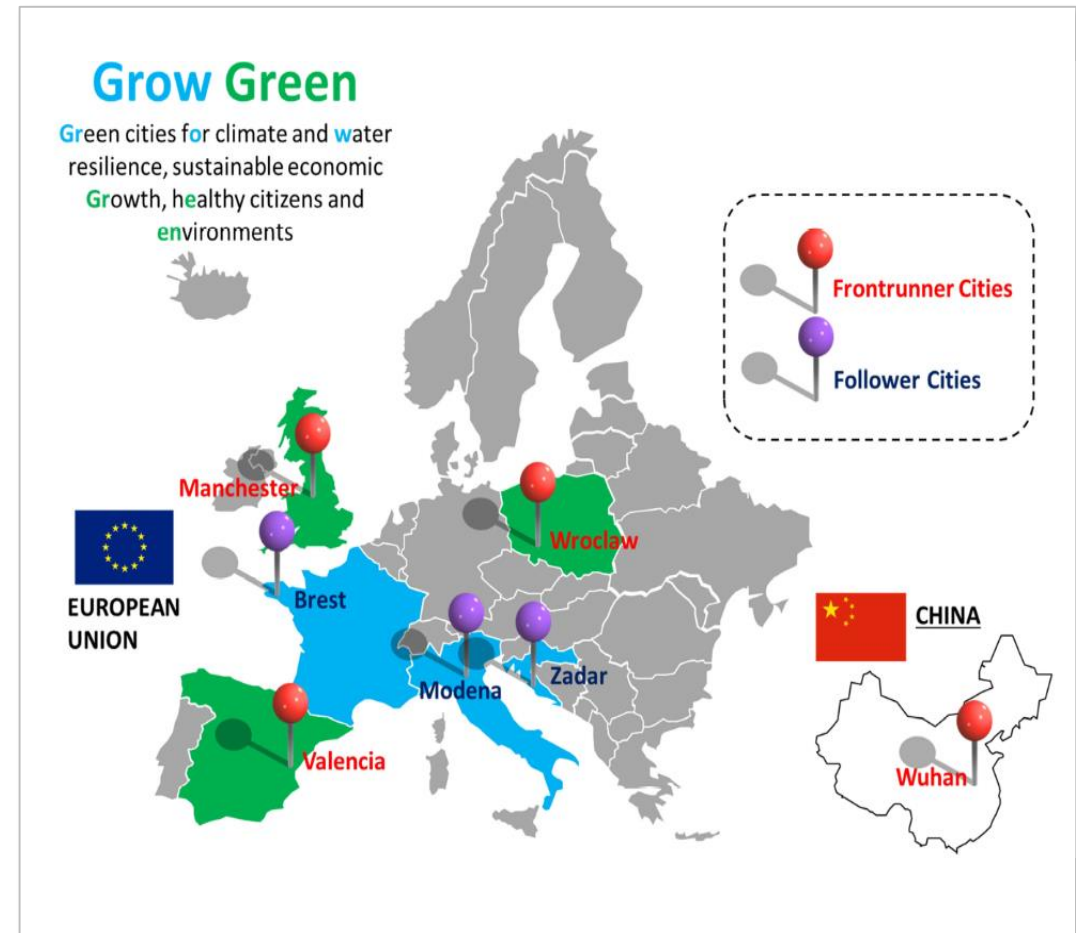
26th – 27th March 2019

Manchester City Football Club

- Learning, capacity building and networking to tackle investment gap for nature-based solutions in cities
- Interactive workshops on valuing natural assets and mobilising finance
- Brings together city representatives, investors and businesses



More information: [www.growgreenproject.eu](http://www.growgreenproject.eu)













# Manchester's GI Strategy: Making things happen

“The Strategy allowed us to demonstrate to Europe, the Government and partners that Manchester has a clear focus and commitment around this agenda.”

MATT ELLIS, CLIMATE CHANGE LEAD, ENVIRONMENT AGENCY

“Without a clear policy and strategy for GI in Manchester, the GrowGreen project, and the other funding bids currently in development, simply would not have been possible.”

J SADLER, MANCHESTER CLIMATE CHANGE AGENCY

“Our EnRoute project demonstrates that nature-based solutions and green infrastructure are vital components of growing cities. Manchester's G&BI Strategy has helped us illustrate this and serves as an example for many other European cities in our network.”

JOACHIM MAES, EUROPEAN COMMISSION –  
INTERNATIONAL PROJECT CO-ORDINATOR, ENROUTE

“The Strategy has provided us with an obvious focus. This in turn has helped us secure funding for projects that will have a real benefit to Manchester communities.”

MARK KNIGHT, LANDSCAPE TEAM MANAGER,  
GROUNDWORK TRUST









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