

GROWING MORE TREES FOR GREATER MANCHESTER

## City of Trees

## Making Trees Count-

## <u>Using data to develop a strategy for Greater</u> <u>Manchester's Trees and Woodlands</u>

### Bryan Cosgrove City of Trees

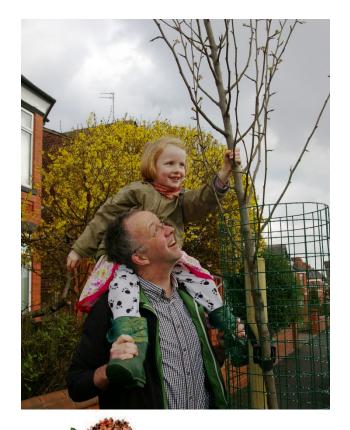


What is a City of Trees?

GROWING MORE TREES FOR GREATER MANCHESTER

City of Trees is an innovative and exciting movement set to re-invigorate Greater Manchester's landscape by transforming underused, unloved woodland and planting a tree for every person who lives there, within a generation.

City of trees is a movement, bringing together the public, private and third sectors, and the people of Greater Manchester.



Over 100 Partners & Growing all the Time								0			
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#### THE GOAL



GROWING MORE TREES FOR GREATER MANCHESTER

# 3m

trees, planted across the city region over the next two decades

1.5%

of land deemed as ready for planting, converted to woodland

2,000

hectares of currently unmanaged woodland brought into productive, beneficial state





## Manchester<br/>CityofTreesA new Northern Forest

GROWING MORE TREES FOR GREATER MANCHESTER





## Policy and Influence

#### Locally...

We are building relationships to unlock strategic support for both trees and woods across Greater Manchester and have the strong support of Andy Burnham, Mayor.



We are part of a number of strategic groups including the Low Carbon Hub, Natural Capital Group and Urban Pioneer, Catchment partnerships, GM Wetlands partnership, Greater Sport Activity Network and Natural Course.

We also co-ordinate the Greater Manchester Forests Partnership – a partnership of 10 local authorities and DEFRA to discuss and plan at a strategic level the development of trees and woodlands across the City region.

#### Delivering key agendas...

As well as delivering a wide number of community projects on the ground we also strive to ensure our work meets the key priorities of the region including air quality; health and wellbeing; flooding; climate change and resilience; low carbon; sustainable travel and skills and employment.



September marks the start of conker season. The conker is the seed of the horse chestnut tree. #SaturdayStats... https://t.co/wPhClbs9Oj — 1 day 22 hours ago









**GROWING MORE TREES** FOR GREATER MANCHESTER

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#### **Our vision i** the world to

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#### Greater Manchester Natural Capital Investment Plan

EXECUTIVE SUMMARY — JANUARY 2019

eftec, Environmental Finance and Countryscape to Greater Manchester Combined Authority (GMCA)

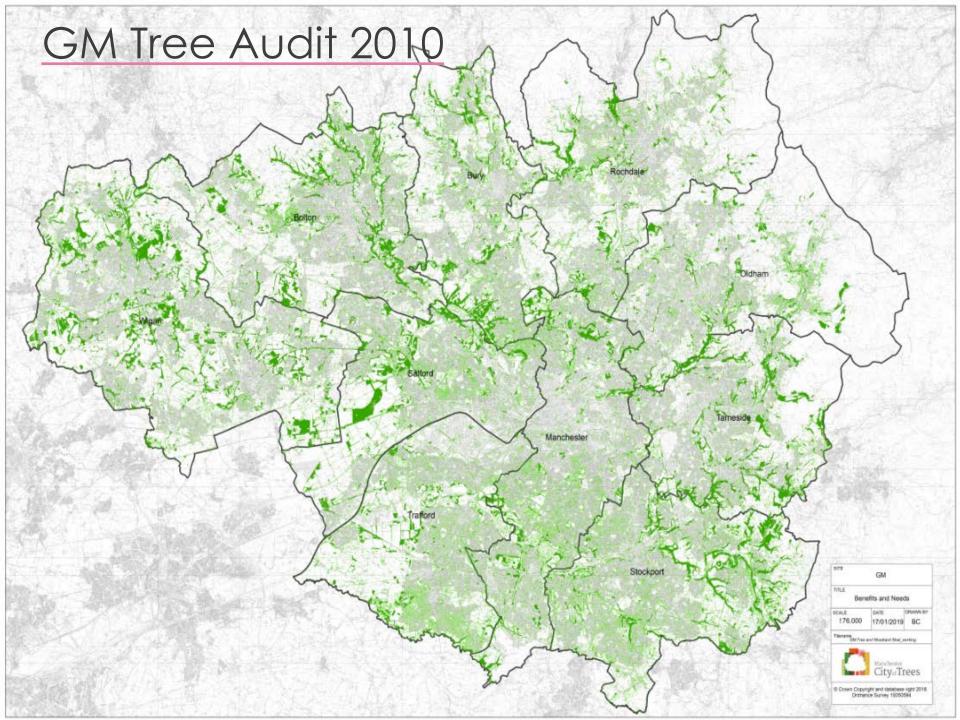














#### i-Tree is a combination of science and free tools that:

**Quantifies** the benefits and values of trees around the world.

Aids in tree and forest management and **advocacy**.

Shows potential **risks** to tree and forest health.

#### i-Tree Tools



#### i-Tree Landscape

Rapidly assess human and forest population information; threats to help prioritize areas for tree planting; protection.



**i-Tree Canopy** Easily estimate tree canopy and benefits using aerial photographs.

## i-Tree Design

Parcel level analysis of current and future tree benefits.



#### i-Tree Eco

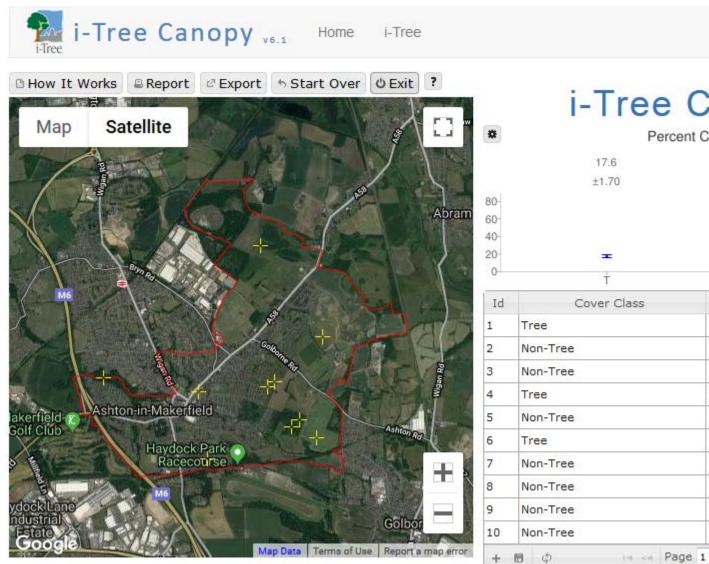
Flagship tool that quantifies the structure of, threats to, and benefits and values provided by forest populations globally.



#### More tools...

See all the i-Tree tools, past and present, listed here.





	17.6 ±1.70					
		+1.70	82.4 ±1.70			
	Ť	NT				
	Cover Class	Latitude	Longitude			
1	Ггее	53.49020	-2.65085			
ſ	Non-Tree	53.48924	-2.62262			
ſ	Non-Tree	53.48189	-2.63296			
1	Ггее	<mark>53.50364</mark>	-2.62384			
-	Non-Tree	53.49443	-2.61317			
ſ			-2.61854			
-	Ггее	53.48518	2.0100			
-	Tree Non-Tree	53.48518	-2.61430			
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-	Non-Tree	53.48409	-2.61430			

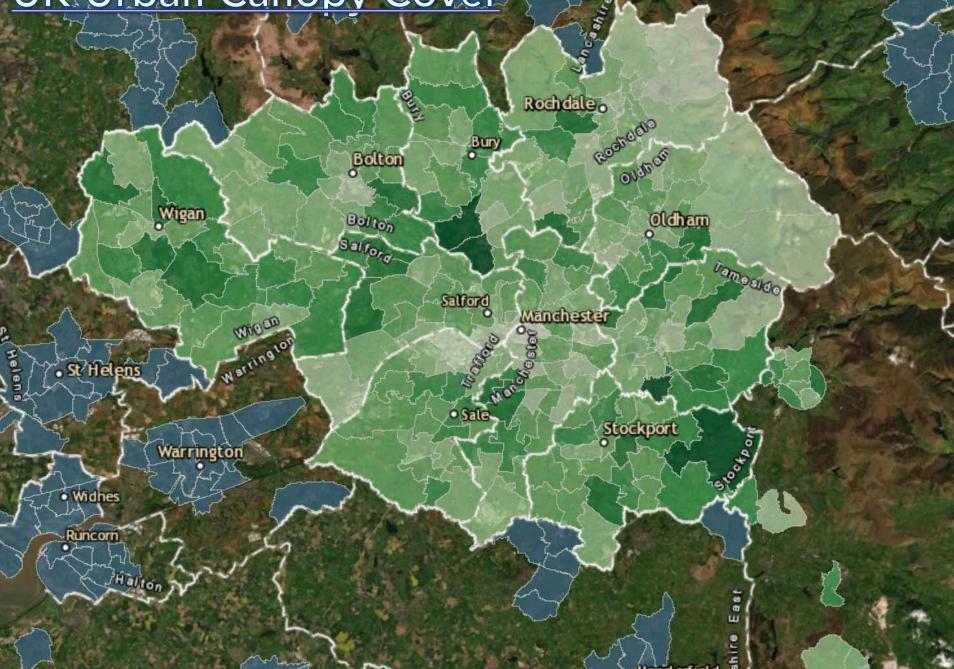
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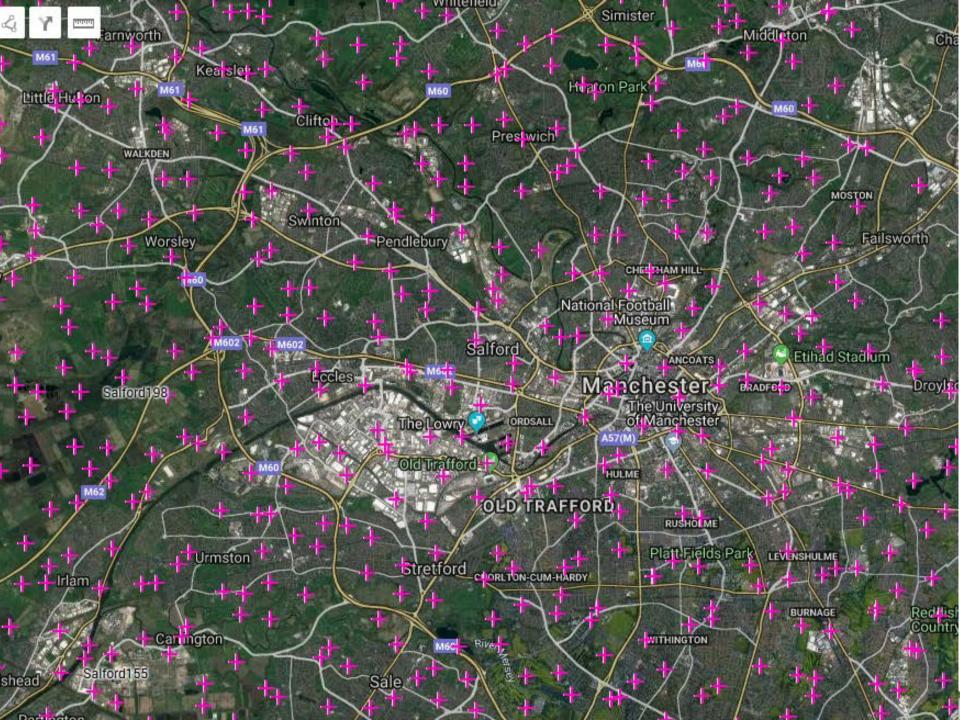
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Feedback

## UK Urban Canopy Cover







#### **GM Canopy Assessments**

■ GMTA % ■ iTree Eco % ■ iTree Canopy %



There are an estimated **11,321,386 trees** in Greater Manchester, which equates to just **15.7%** tree canopy cover.



Manchester Cityof Trees

**#AllOurTrees** 

The most common species of trees in Greater Manchester are **Hawthorn**, **Sycamore** and **English Oak**.



Manchester Cityof Trees



## Trees in Greater Manchester remove **847 tonnes** of pollutants from our air each year.









# Trees intercept **1,644,415m**<sup>3</sup> of stormwater runoff per year in Greater Manchester.





Manchester Cityof Trees



Greater Manchester's trees sequester **56,530 tonnes** of carbon each year.

The current carbon storage of all trees is **1,573,013 tonnes.** 







The total annual economic value of air pollution filtration, stormwater attenuation and carbon sequestration in Greater Manchester's trees is £33,298,891.



Manchester Cityof Trees

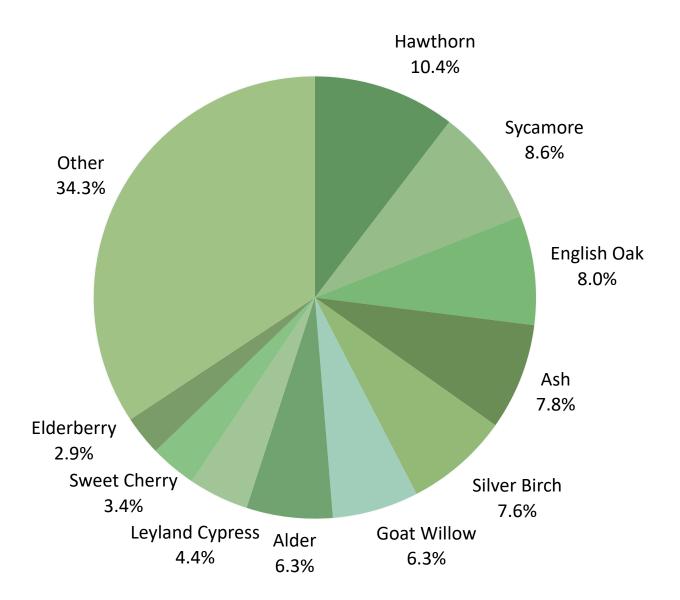


Approx. **1 million trees** are in danger of being lost in Greater Manchester due to pests and diseases such as Ash Dieback and Horse Chestnut Bleeding Canker.





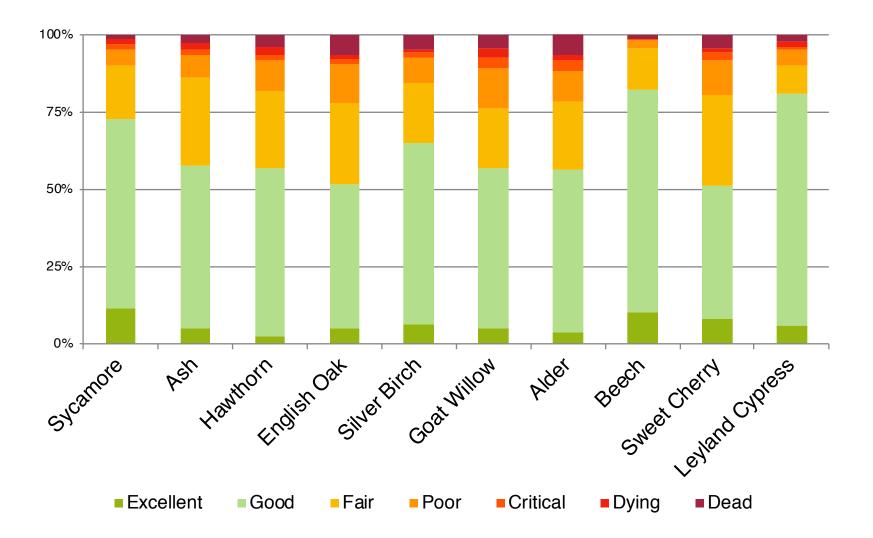






Species	% Population	% Leaf Area	Dominance Value	
Sycamore	8.6	16.9	25.5	
Ash	7.8	8.8	16.6	
Hawthorn	10.4	5.6	16	
English Oak	8	7.8	15.7	
Silver Birch	7.6	6	13.6	
Goat Willow	6.3	5.6	12	
Alder	6.3	4.7	11	
Beech	2.8	7.7	10.5	





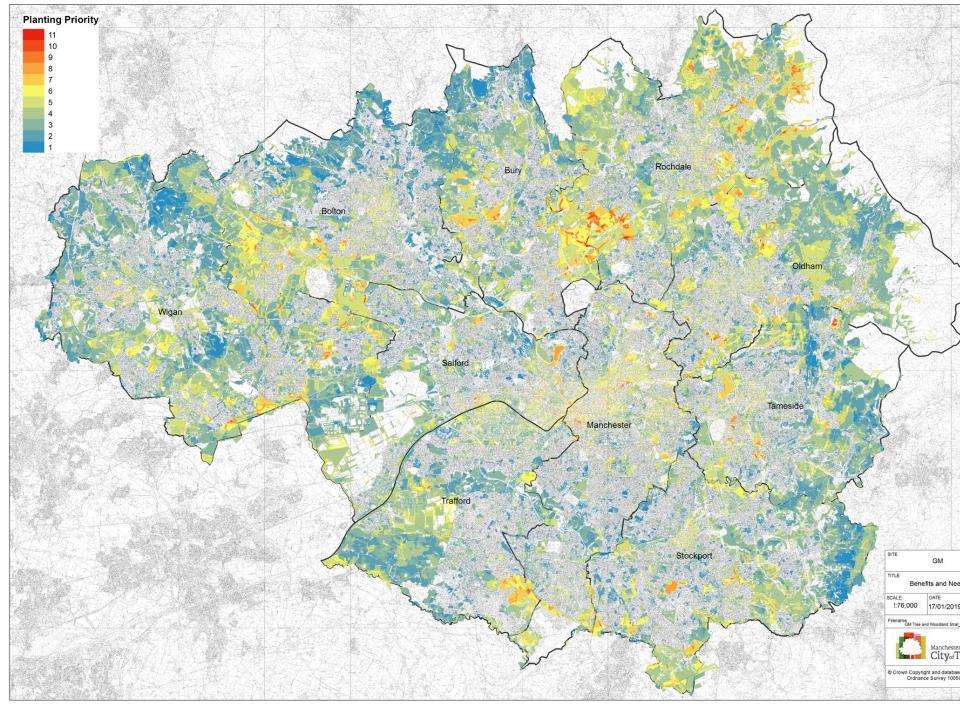


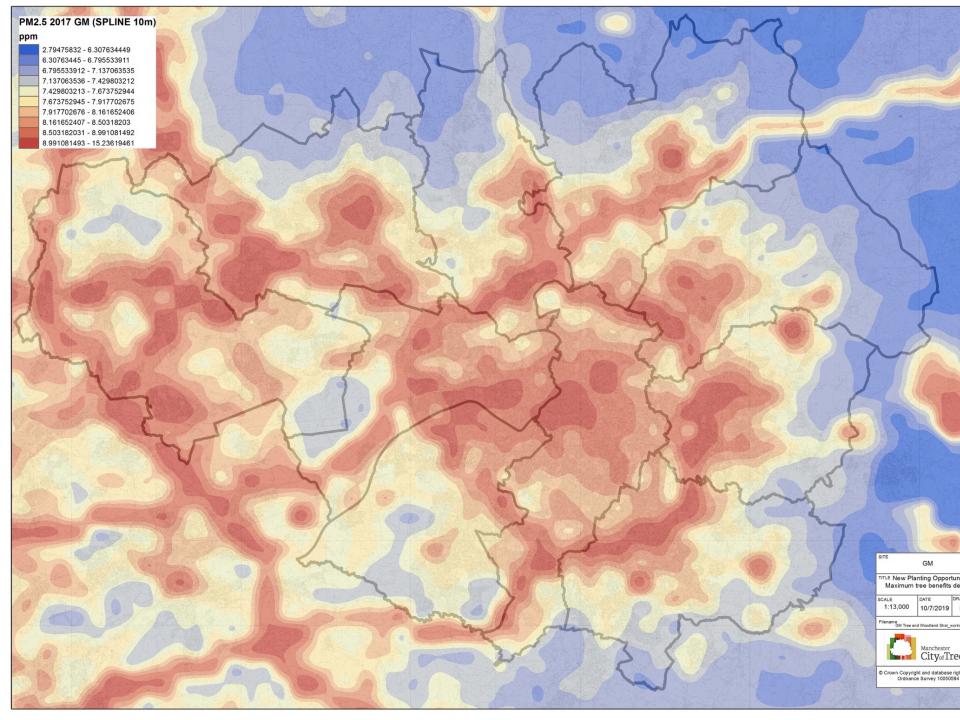
## All Our Trees

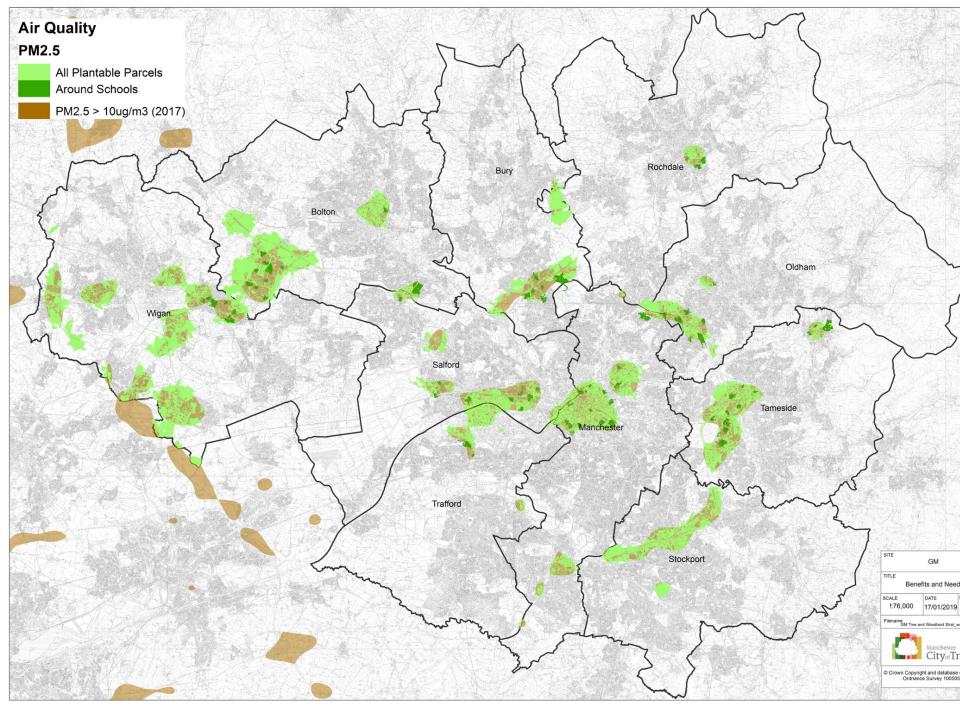
#### Greater Manchester's Tree and Woodland Strategy

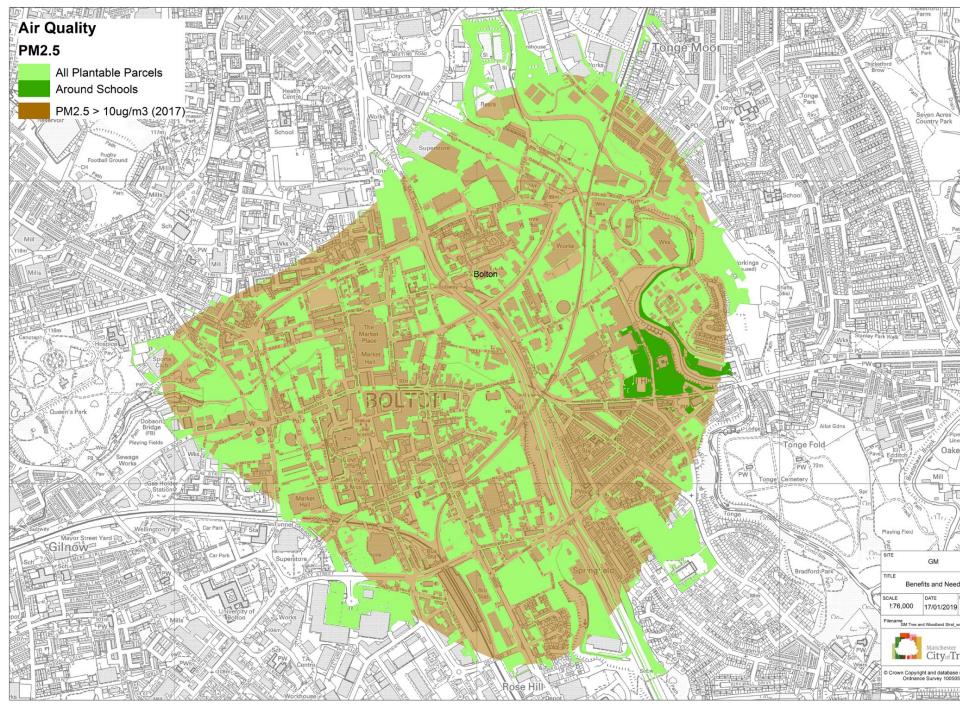
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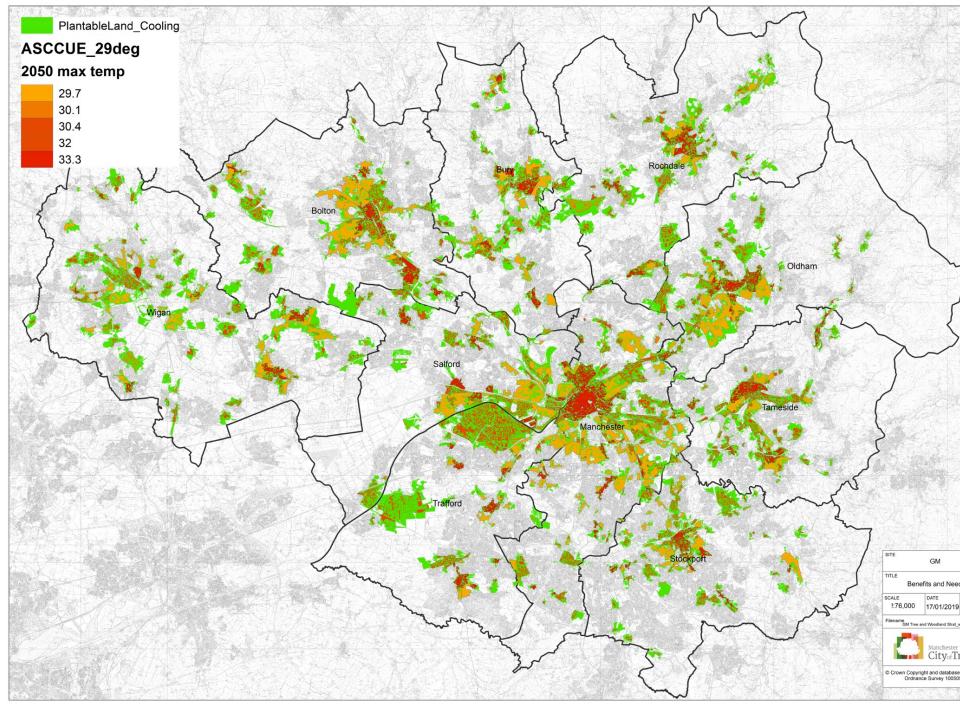
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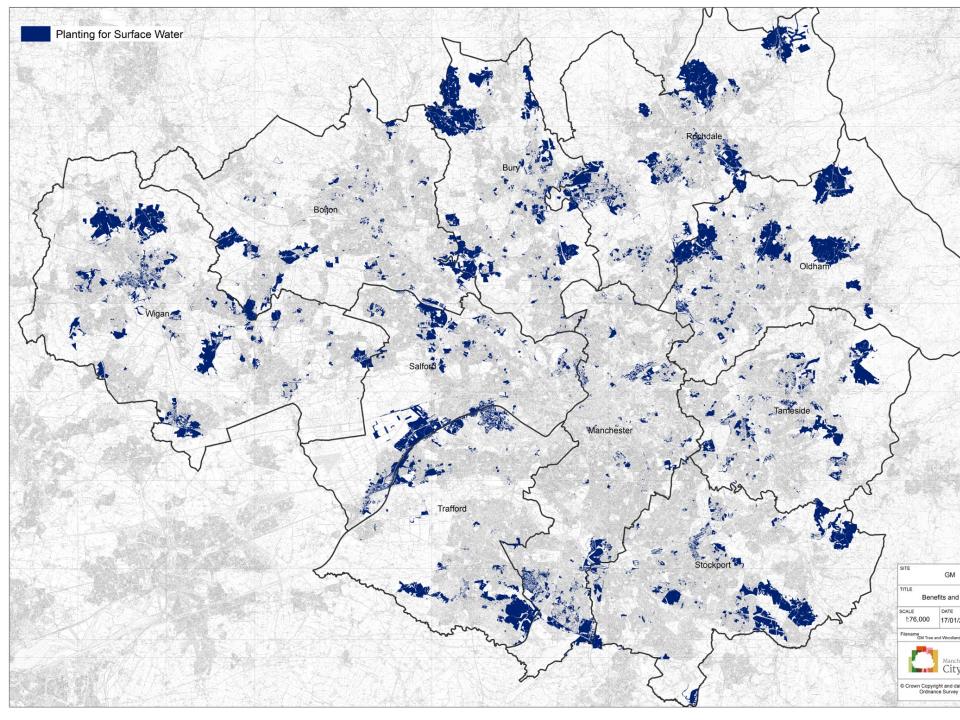


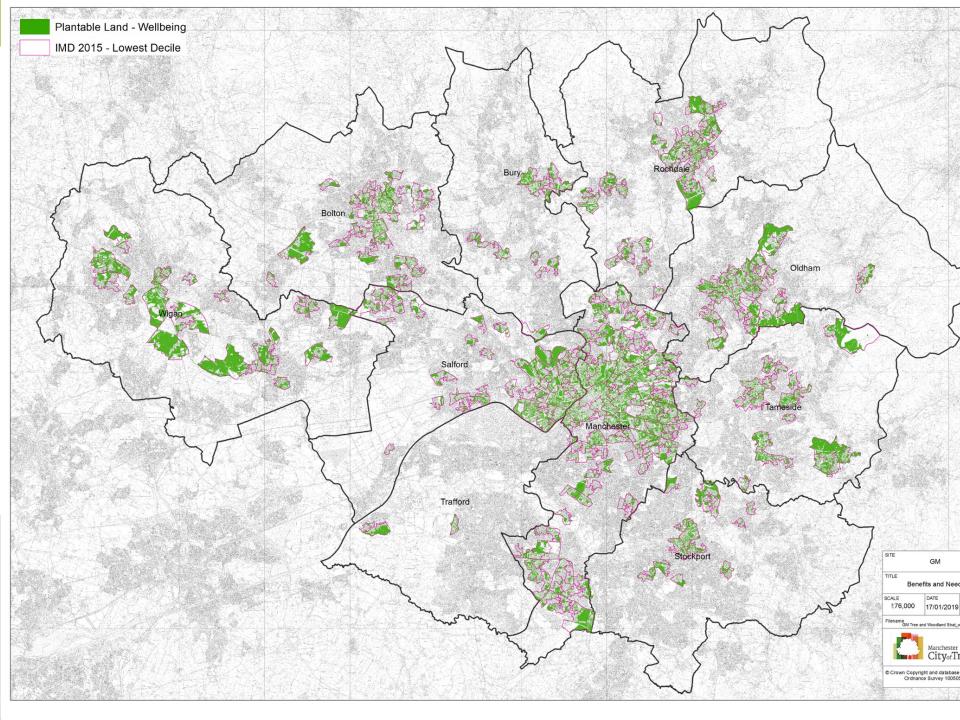














## All Our Trees

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## Thank you



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