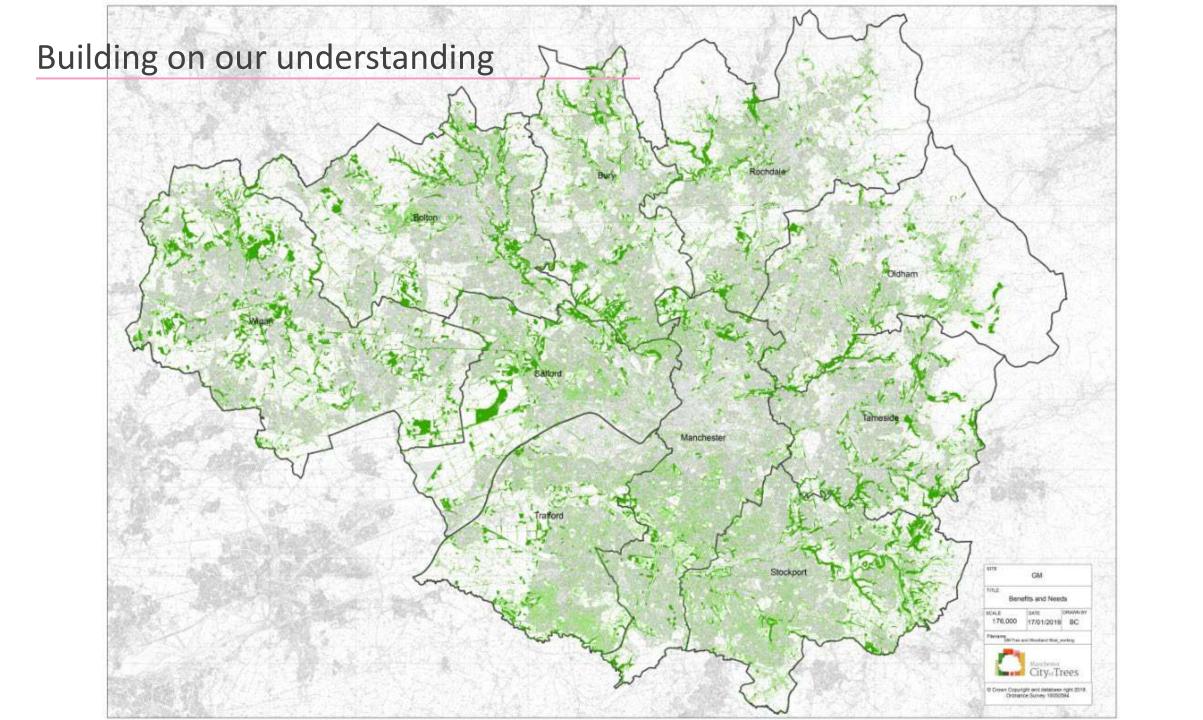


Growing more trees for Greater Manchester, UK







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

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





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













Why Trees?

Trees and woods create healthier, happier communities, tackle climate change, reconnect our children to the natural world, and provide essential habitats for wildlife.



Improve our health



Lock up carbon and help us meet Greater Manchester's carbon reduction targets



Build resilience - helping Greater Manchester adapt to climate change



Reduce flooding and improve air and water quality



Provide opportunities for education, skills development and volunteering



Boost Greater Manchester's image attracting and retaining visitors, investors and key staff



Enhance biodiversity by creating new habitats and wildlife corridors

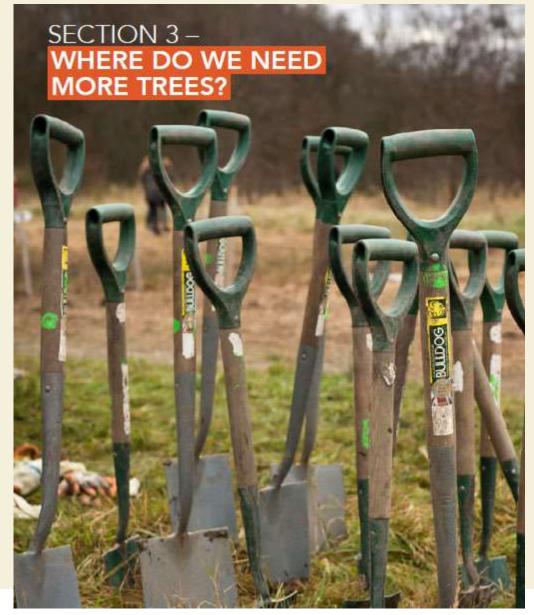


Connect people to the nature on their doorstep



All Our Trees Opportunity Maps

- Our approach
- Introduce the opportunity maps
- Accessing the maps and data





Defining In-Scope Benefits from Trees

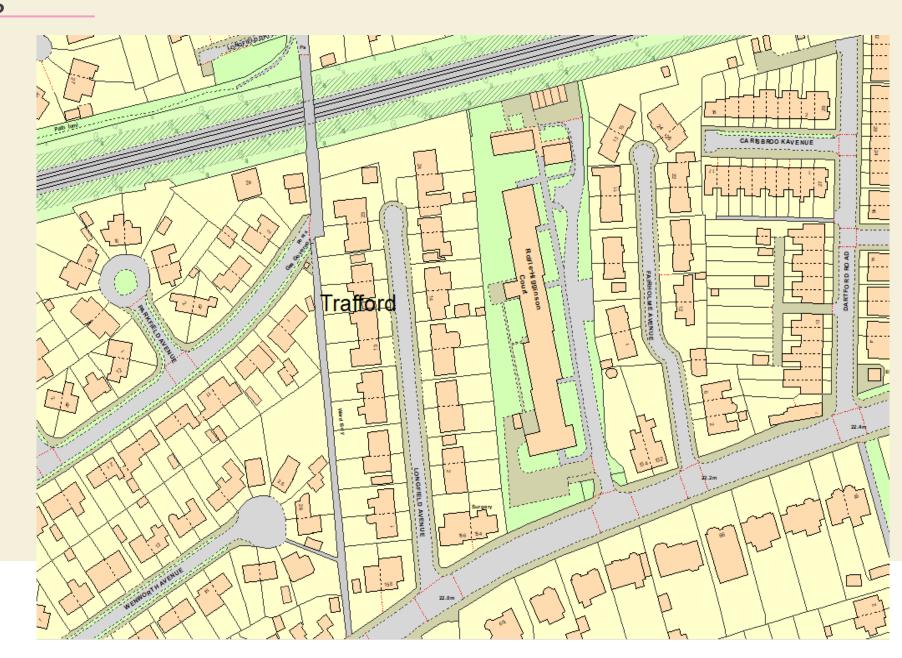
Before starting, we needed to define which key benefits we could define spatially.

- Air quality improvements
- Local climate regulation
- Enhancing habitat and wildlife
- Improving health and wellbeing
- Improving place
- Water quality and flood management



High Detailed Mapping

Ordnance Survey's Mastermap -Topographic Area maps out all the features of our urban landscape, right down to pavement scale.



Defining Plantable Land

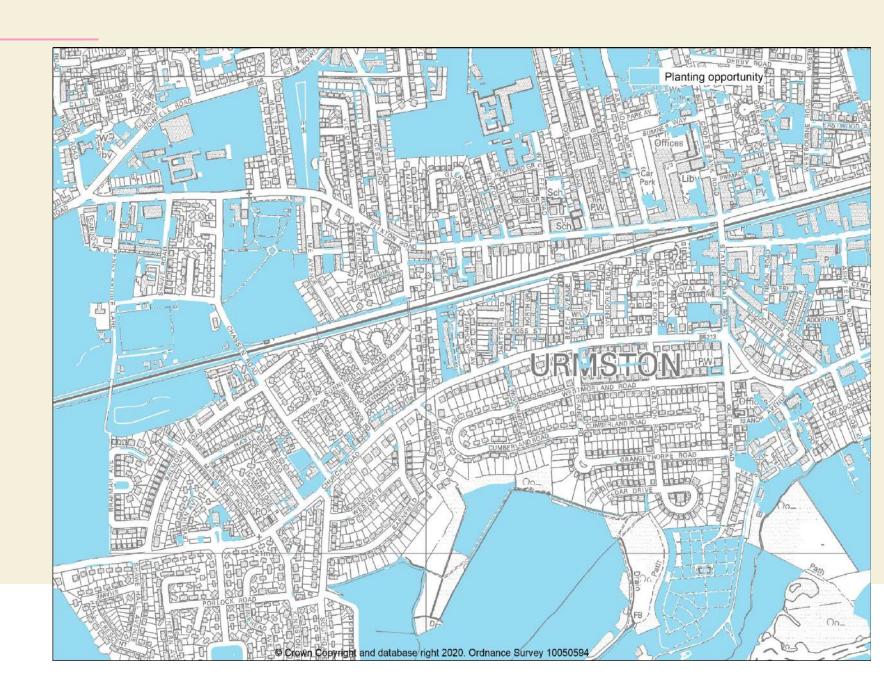
Plantable land is defined as all parcels of land, greater than 7m² (sufficient to accommodate a tree-pit) excluding:

- Rail infrastructure
- Roads
- Buildings and structures
- Private gardens
- Existing woodland
- Historic Parks and Gardens
- SSSIs
- High Grade Agricultural Land
- Blanket Bog
- Airport and surrounding buffer



Defining Plantable Land

Plantable land does include some areas of hard landscaping such as car parks, public squares, and pavements - where wide enough.

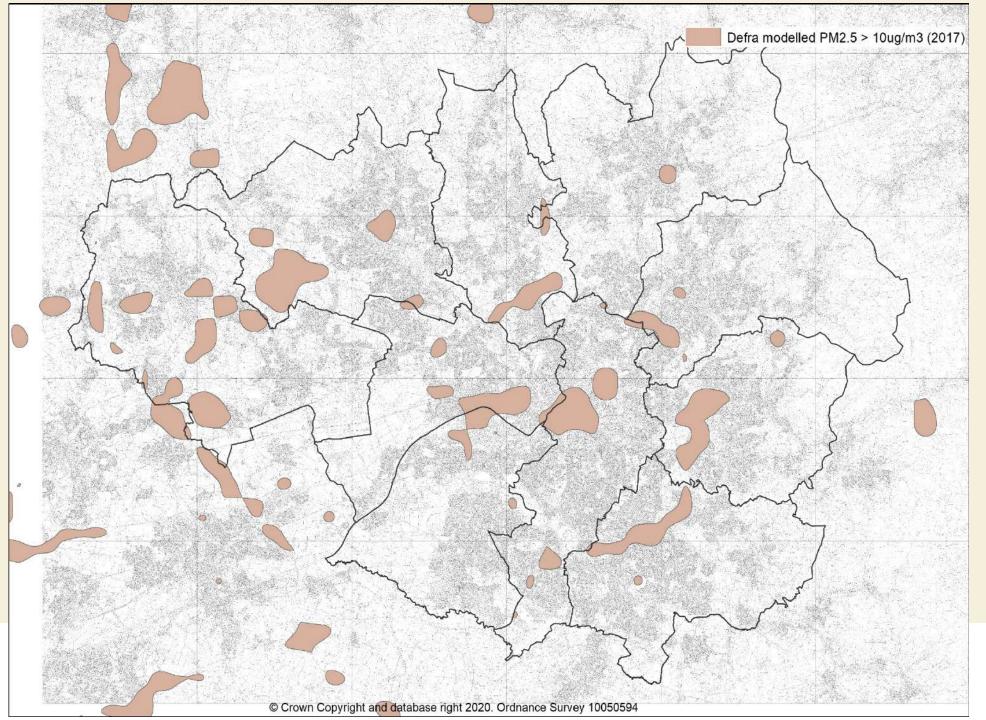


Defining Areas of Greatest Need

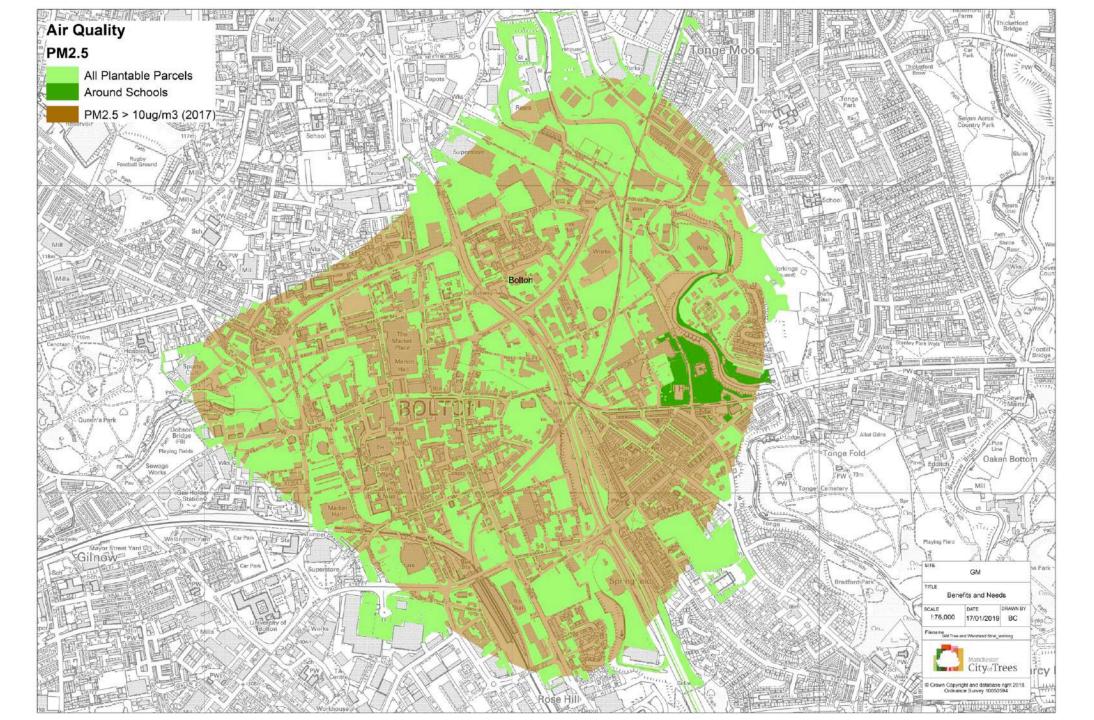
Plantable land map was overlaid in turn with range of publicly available datasets that could describe areas of greatest need.

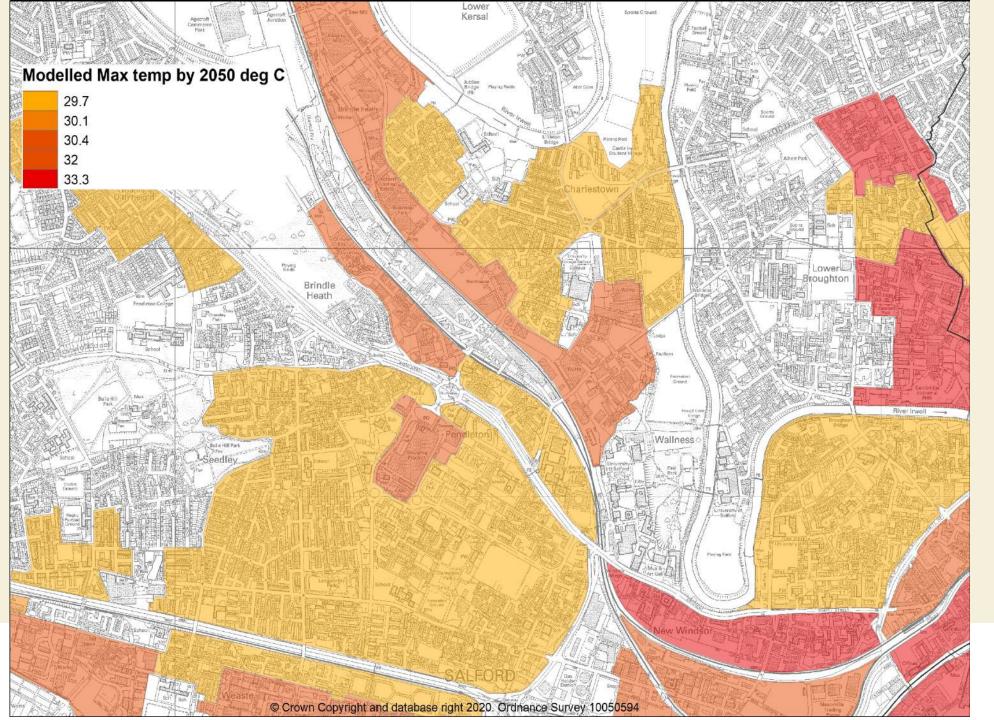
Ecosystem Service	Specific Indicator
Air quality improvements	NO2 Exposure
	Particulates exposure
Climate regulation	Urban Cooling
Enhancing habitat and wildlife	Near new development
	 Expand existing woodland
	 Stepping-stones/recovery networks
Improved Health Outcomes	Active travel
	Wellbeing
	Recreation/physical activity
Improving Place	Tree canopy deficiency areas
	Development sites
	Retail areas
	Residential streets
Water quality and flood management	Fluvial flooding and water quality - Catchment planting
	 Fluvial flooding and water quality - Riparian planting
	Fluvial flooding and water quality - Floodplain planting



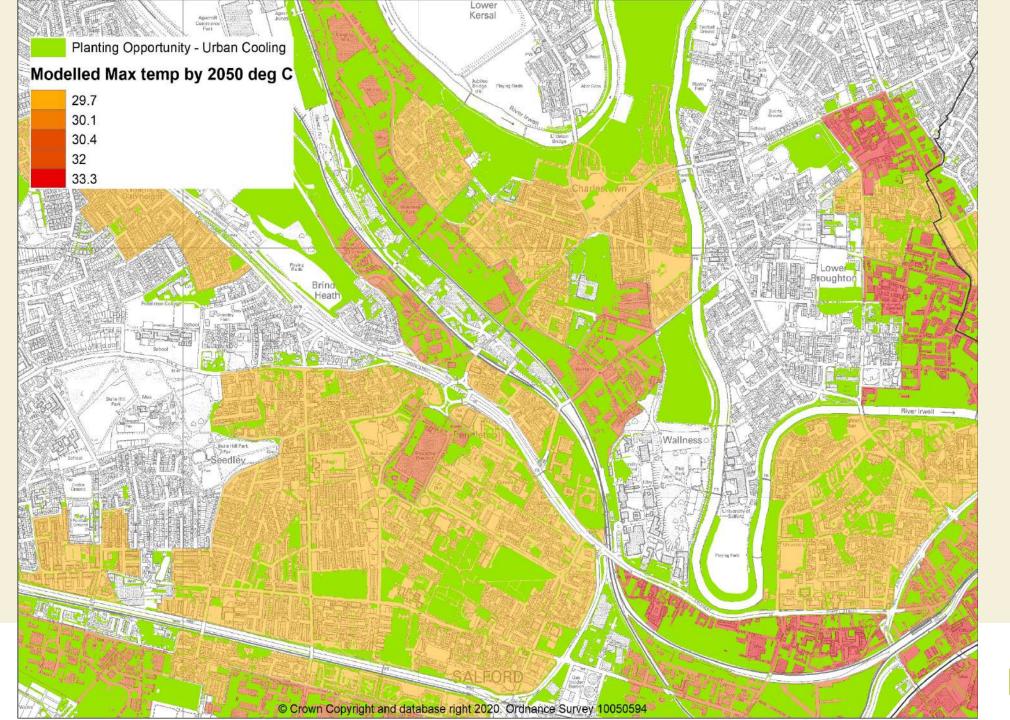




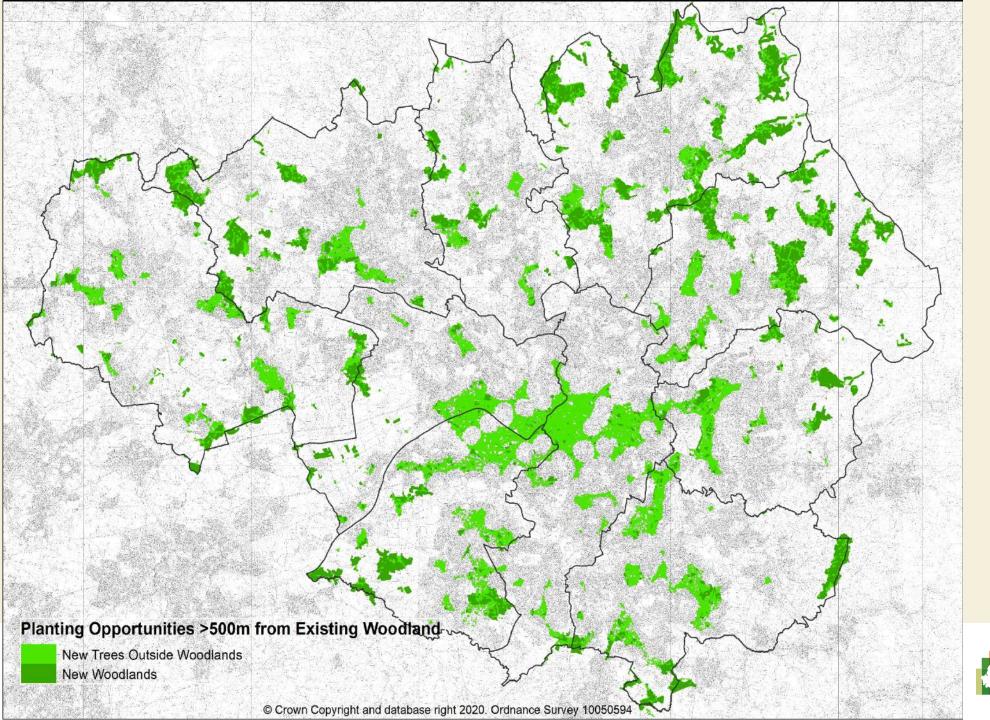




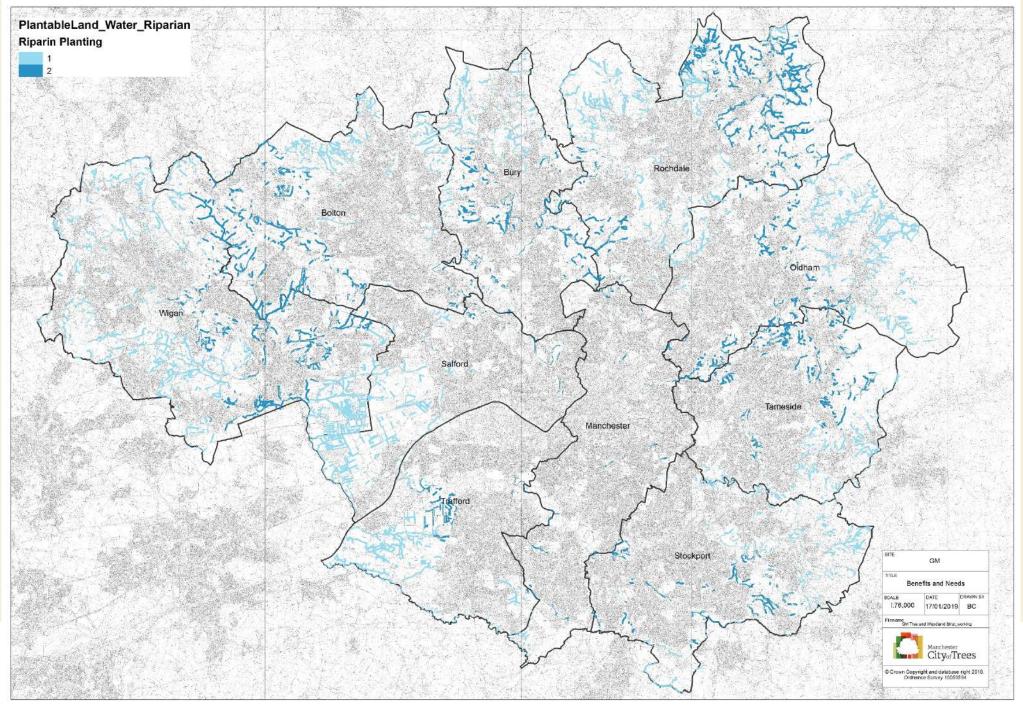




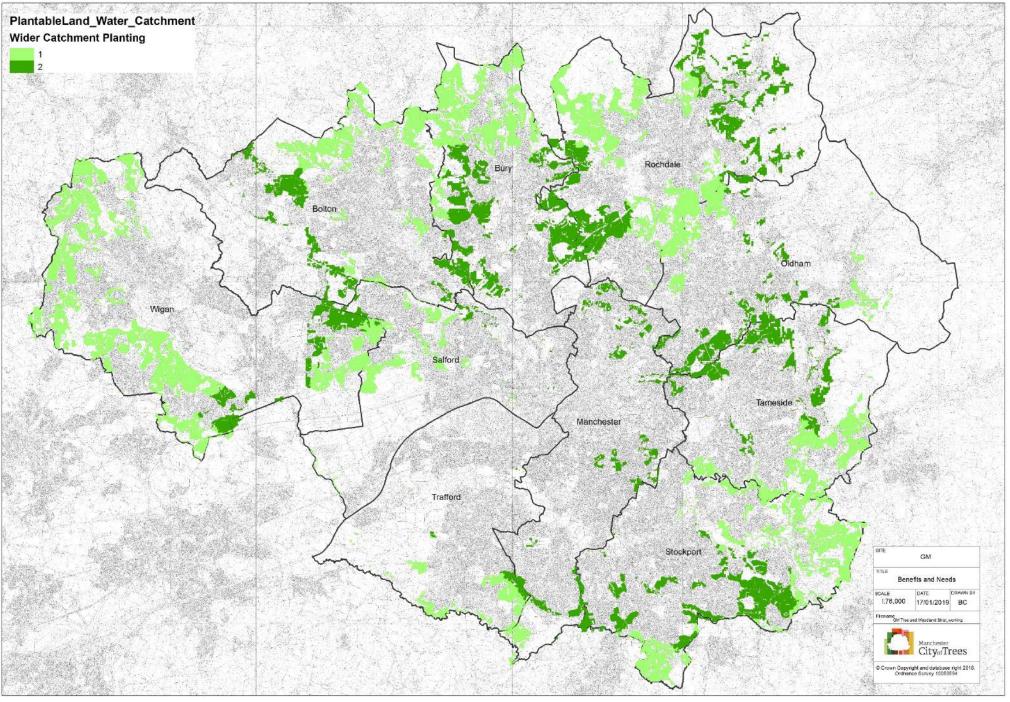












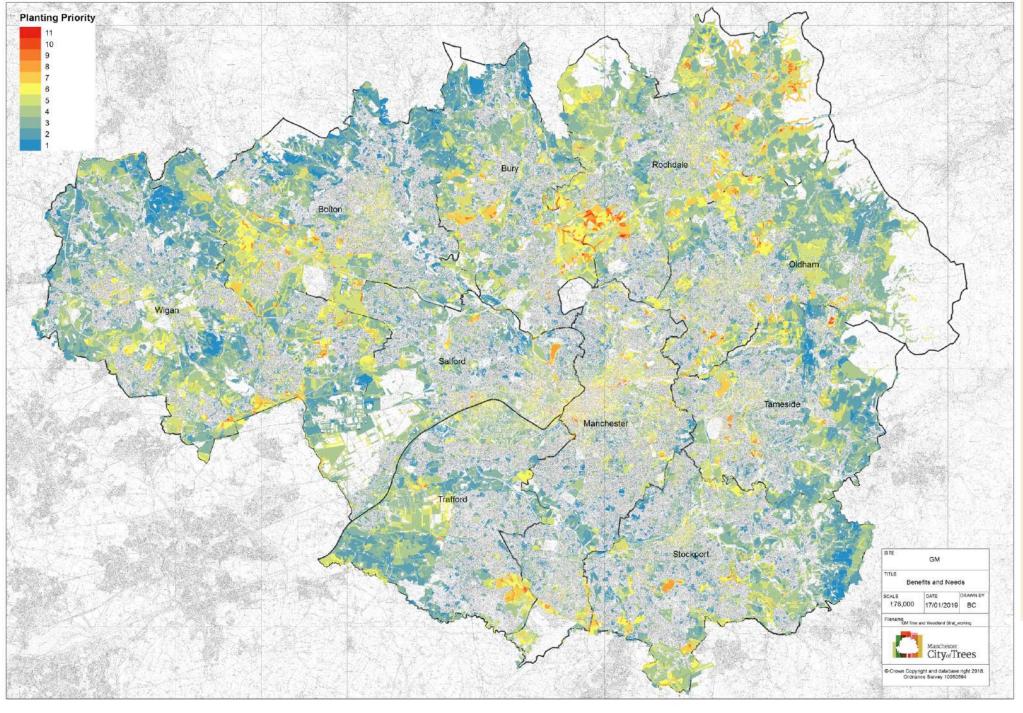


Priority scoring

Each mapped parcel of land is scored for it's potential to meet need for each in-scope tree benefit.

Air_PM 2p5	Cooling	Biodiv_	Biodiv_ Exp	Biodiv_ Ste	Health_ Wel	Health_	Place_D efi	Place_D eve	Place_R eta	Place_l	R Urban_ Swr	Urban RoFS	_	Shape_A	7 02	>1ha	>0.5ha	>0.25ha
203	Cooming	Dev	LAP	Jie	VVCI	Nec	CII	eve	Cla	C31	3441	KOI 3	Thorney	Jiiape_Ai	Ca	- IIIa	70.5IIa	>0.2311a
() 1			1 () (0 () 1	1	1 ()	0	0	0 !	5 10	10815.3654100000	0 yes	yes	yes
() C) 1	1	1 () (0 () 1	() ()	0	0	0	4 9	89463.3332760000	0 yes	yes	yes
() C) () (0 2	2	0 () 1	() (0	0	0	1 !	5 8	99326.6648930000	0 yes	yes	yes
() C) 1		1 () (0 () 1	1	1 (C	0	0	1 (6 4	89314.1262270000	0 yes	yes	yes
1	1	() .	1 () (0 () 1	() (0	0	0	0 !	5 3	99645.1533640000	0 yes	yes	yes
() 1	() .	1 () (0 () 1	1	1 (0	0	0	0 !	5 3	80869.9941690000	0 yes	yes	yes
() C) 1	1	1 () (0 0) 1	() ()	0	0	1 !		880705.0470450000		yes	yes
() C) 1	1	1 () (0 () () () ()	0	0	0 :	3 3	65572.7164010000	0 yes	yes	yes
() C) () (0 () (0 () 1	() ()	0	0	0 :		59387.0872900000		yes	yes
() C) 1	1	1 () (0 () () () ()	0	0	1	4 3	359081.6253090000	0 yes	yes	yes
() C) 1	1	1 () (0 () () () ()	0	0	0 :	3 3	27823.6394210000	0 yes	yes	yes
() C) 1	1	1 () (0 () () () ()	0	0	0 :	3 3	320917.3024320000	0 yes	yes	yes
() C) 1	1 (0 2	2	0 () () () ()	0	0	0	4 3	319500.2272860000	0 yes	yes	yes
() C) 1	1	1 () (0 () () () ()	0	0	1	4 3	319185.8757430000	0 yes	yes	yes
() C) 1	1	1 () (0 () () 1	1 ()	0	0	0		18951.3084350000		yes	yes
() C) 1	1	1 ()	1 () () () ()	0	0	0	4 3	314970.4536790000	0 yes	yes	yes
() () () (0 () (0 () () () (C	0	0	1 :	2 3	311953.4055720000	0 yes	yes	yes
() () 1	1	1 () (0 () () () ()	0	0	0 :	3 3	05643.4033400000	0 yes	yes	yes
() () 1		1 () (0 () 1	() ()	0	0	0	6 3	03520.6681840000	0 yes	yes	yes
() C) 1		1 () (0 () 1	() ()	0	0	1 !		95870.9186470000		yes	yes
() 1	1		1 () (0 () () () ()	0	0	0		93068.2212040000		yes	yes
() C) 1	1	1 () (0 0) 1	() ()	0	0	1 !	5 2	92047.5064080000	0 yes	yes	yes
1	C) 1	1	1 () (0 0) () () ()	0	0	0		88118.5478950000		yes	yes
() C) 1	1	1 () (0 0) () () ()	0	0	0 :	3 2	87800.5139350000	0 yes	yes	yes
() C) 1	1	1 ()	1 () () () ()	0	0	0	4 2	84374.9331130000	0 yes	yes	yes











Accessing the maps and data

While these maps are each presented in All Our Trees strategy document, they are most usefully viewed in a dynamic system allowing interrogation at all scales.

- Mapping GM https://mappinggm.org.uk
- GIS





The Greater Manchester Open Data Infrastructure Map (GMODIN) makes use of existing local, regional and national datasets on a variety of topics — from open public sector and environmental assets to energy utility networks.

Learn more »

UPDATE 25/03/19: GMCA releases new Ecosystem Services opportunity layer

Greater Manchester Combined Authority has produced a new map showing ecosystem services opportunity areas across the whole of Greater Manchester. This dataset is the first city region-wide ecosystem services opportunity assessment.

You can access the Ecosystem Services opportunity layer in the 'Environment and Ecology' layer theme.

Suggest a change

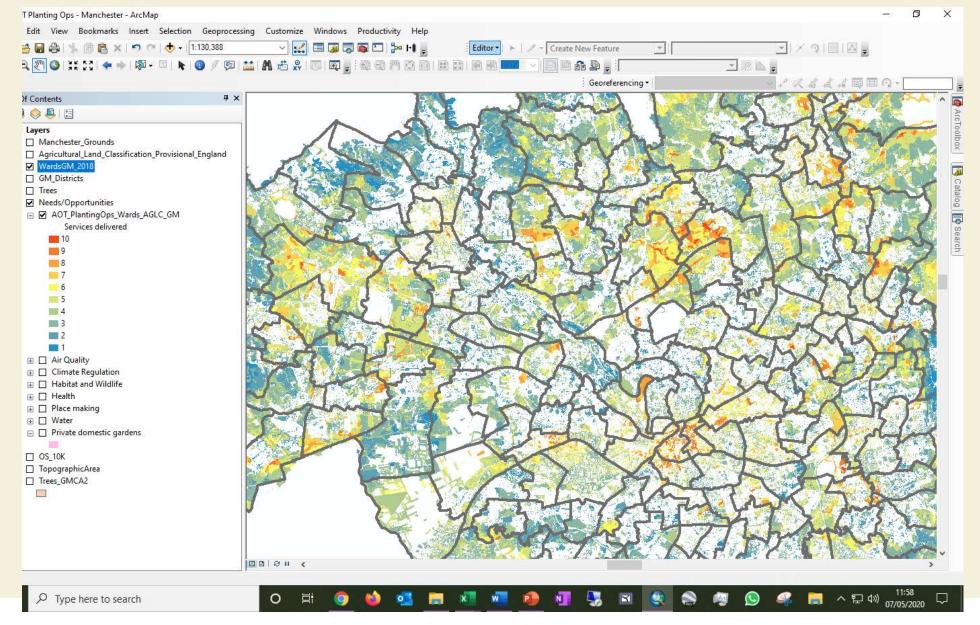
We are always on the lookout for new and useful data. If you would like to see any particular data visualised, please let us know <u>via Twitter</u> or <u>via email</u>.

Contact the team

If you have any queries, comments or updates to make regarding the map, then you can get in touch with our mapping team via email or via Twitter.

Inside a GIS

Allows for precise analysis of scale and priority of opportunities at specific geographies whether that be LA District, ward level, or within specific property boundaries.





Social Housing Providers

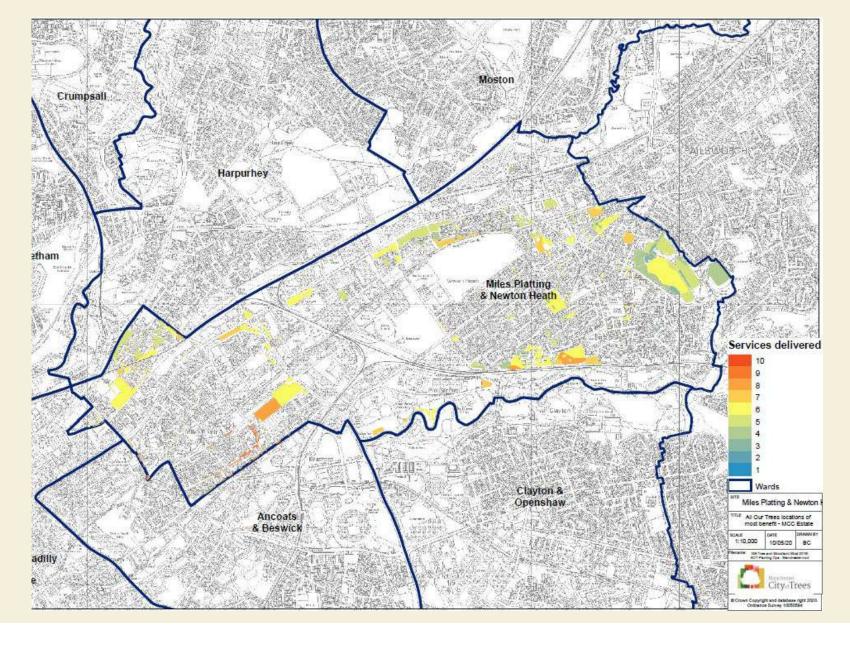
To examine ways amenity green spaces could be better used to help improve environment and health of residents.





Local Authorities

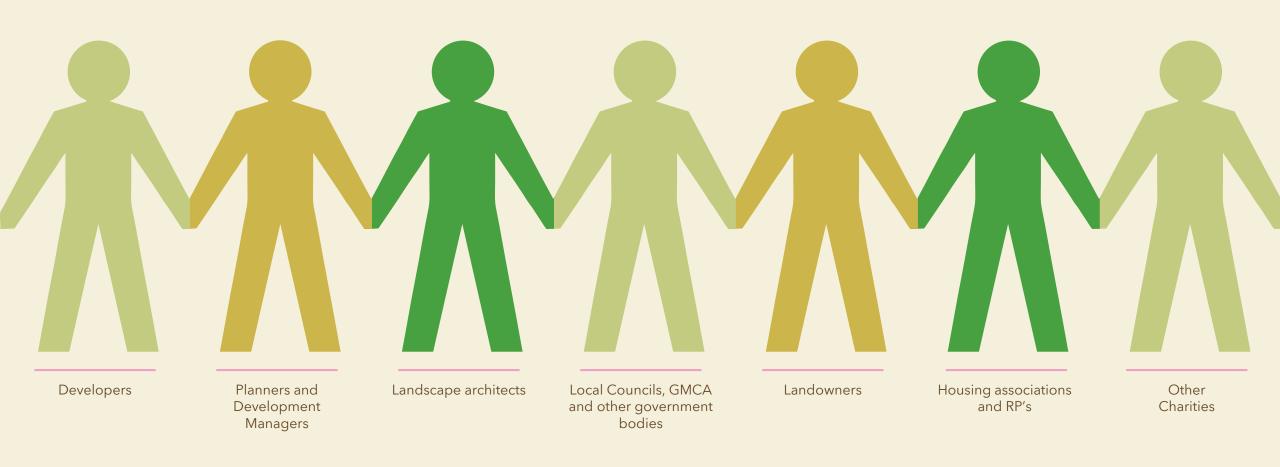
To better understand opportunities on operational estate and develop local greenspace or tree strategies.





Who are the maps aimed at?

We developed these maps and underlying data to be used by a wide range of partners and stakeholders.





Contact Us



To learn more about All Our Trees visit:

www.cityoftrees.org.uk

Find us on...









Community Forest Trust (CFT) is the charitable organisation that supports the delivery of the City of Trees movement. CFT is a non-profit making company limited by guarantee. Registered in England no. 3598556. Charity registration 1072706.

