

<b>Objective 1: Improve the quality and function of green and blue Infrastructure to maximise the benefits it delivers.</b>						Owner: Fiona Worrall, Neil Fairlamb
<b>Our Manchester links: A7 - Collectively improve our health and wellbeing and be more active as adults and children</b> <b>A11 - Be known for high life-quality, better green spaces and world-class sport,leisure and culture.</b> <b>LL5 - Improve the quality of parks, green spaces and waterways, and incorporate more into new developments.</b>						
	Headline Action	Action	Stakeholders	Location: N,S,C,CC	Timescale	Progress
1	River valleys and canals: continue to invest in the river valleys and canals to provide attractive settings for residential communities, leisure and recreation, health, and biodiversity benefits	EU Water Framework Directive in Manchester: deliver a programme of citywide river and canal projects to improve water quality, reduce flood risk and improve biodiversity. To include: - Delivery of the Manchester elements of the €20million Environment Agency Northwest River Basin Management Plan LIFE project- The Natural Course	MCC, EA	N/E	2015-20	Ongoing. production of an Ecosystem Services opportunity map and set of Natural Capital accounts for the River Irwell catchment and a detailed understanding of the diffuse pollution pressures on the Rivers Irk & Medlock. NC are working with the Environment Agency to develop a vision for the River Irk.
		Medlock Valley Project and Medlock Restoration Project: to improve access to the river valley, water quality, biodiversity and use by local people. To include: - Development of Strategy for lower Medlock and ongoing restoration options	GW, MCC, EA	C/CC	2015-20  2015-18	Ongoing. Opportunities to improve the environment adjacent to the R Medlock around Mayfield, One Circle Square and Gt Jackson Stare being progressed. Public realm at Circle Square is underway. Manchester GI Group consultation events around Mayfield supported
		Irk Valley Project: to improve access to the river valley, water quality, biodiversity and use by local people.	GW, MCC, EA	N/C/CC	2015-20	Ongoing. 2018 major input to Northern Gateway initiative from Manchester G&BI Group
		Moston Brook Project: to improve access to the river valley, water quality, biodiversity and use by local people.	MCC, OMBC, GW, LWT	N	2015-20	Ongoing.
		Mersey Valley Partnership: MCC and RSPB partnership to develop and deliver a new vision and investment plan for the Mersey Valley, to improve access, usage, biodiversity. To include: - Development of Strategic vision for Mersey Valley	MCC, RSPB	South	2018	Ongoing. Developing joint MV vision
		Delivery of the Clean Streams Project by Environment Agency and MCC to deliver clean ups, biodiversity enhancement and behaviour change	MCC, EA	Citywide	2018	Ongoing. Planning for Flood Risk projects
		The Canals and Rivers Trust to deliver the Manchester and Pennines Waterways Partnership Vision to improve the Ashton and Rochdale Canals within the city and to improve connections to surrounding areas.	CRT	N/C/CC	2018	Ongoing. Small scale capital works secured for City Centre Rochdale Canal improvements
2	Enhance existing parks to maximise their potential in making Manchester a World Class City	Produce a new Manchester Parks Strategy to set out plans for new investment and park improvements.	MCC	Citywide	2018	Ongoing. 15 new park plans to be completed by December 2018.
		£20 Million Capital programme of improvements agreed	MCC		2017-2020	Major investment planned at Heaton park and Wythenshawe park, with additional prioritised park investment.
3	Enhance existing and introduce new GI within large estates and land holdings e.g. colleges, registered housing providers, cemeteries, universities and hospitals	Registered Housing Providers' to integrate GI as part of business plans. To include: - Research to identify best practice amongst the city's Registered Housing Providers - Establish a mechanism(s) for sharing best practice and supporting further roll-out	RHPs	Citywide	2015-17	Ongoing. New RHP GI Forum established.
		University of Manchester – integrate GI as part of the development and delivery of the £1bn UoM estate and landscape masterplan. To include: - UoM GI Strategy including - Biodiversity Master Plan - Green Roof Green Wall policy	UoM	C/CC	2016- 2020	Ongoing.
		Nature based solutions via H2020 EU - GrowGreen	MCC	C	2017-20	Ongoing. 2018 work including community engagement activity and outline masterplanning
		Manchester University NHS Foundation Trust	MUNHSFT	Citywide	2017-20	Following the merger between the Central Manchester and South Manchester Hospital Trusts there will be dialogue to assess progress and opportunities for managing the hospital estates to increase the value of GI
4	Schools: enhance school grounds for environmental education and biodiversity	Lancashire Wildlife Trust to deliver £66,000 Forest Schools project in North Manchester	LWT	N	2018	Ongoing. Further funding secured for 2018.

	Headline Action	Action	Stakeholders	Location: N,S,C,CC	Timescale	Progress
		RSPB to deliver schools engagement programme involving Primary schools across the Mersey Valley and wider Manchester area	RSPB	S	2015-20	Ongoing: Involving 16 Primary schools across Manchester
5	Trees and woodlands: effective and appropriate tree and woodland management and planting	Aim for at least 2,500 new trees per year, to be planted in line with the Manchester Tree Action Plan target, by a range of organisations and the City of Trees initiative.	MCC, CoT, RPs, individuals, developers, COM, CoT	Citywide	2015-20	2015/16- 2960 trees planted, including 35 orchards plus 1080 hedge trees 2016/17 2129 trees planted, including 6 orchards and 832 hedge trees 2017/18 3348 trees planted including 4 orchards plus 1585 hedge trees City Centre Opportunity mapping undertaken by City of Trees note: change in tree action plan targets to reflect need for neighbourhood focus to new planting
		Wythenshawe Woodlands – Red Rose Forest, Groundwork and Council project to deliver biomass products, biodiversity improvements, skills, training and volunteering opportunities. (Heritage Lottery Fund application re submitted June 2018).	CoT, MCC, GW	S	2018-2019	CoT secure 185,000 HLF Funds Work being undertaken on 3 x Wythenshawe Woodlands as part of pilot project
		Minimum of 4 new community orchards to be planted per year.	CoT, MCC, RHPs, CGs	Citywide	2015-17	35 orchards planted in 2015/16 6 orchards planted in 2016/17 4 orchards planted 2017/18
		Map known community orchards across the city	MCC CoT	Citywide	2018	Ongoing. Liasing with CoT and urban orchard project
6	Community greening and community food growing: delivery of community led and focussed GI projects and food growing	Deliver £1million Real Food Wythenshawe community training and capacity building project.	RFW, GW, RHPs, MCC	South	2018	Ongoing. 2018. Extension funding secured
		Promote RHS in bloom campaigns	RHPs, MCC	Citywide	2015-18	130 In Bloom awards citywide in 2015 126 In Bloom Awards citywide in 2016 166 In Bloom Awards citywide in 2017 154 In Bloom Awards citywide in 2018
7	Gardens: protect and enhance private gardens	Southway Housing Trust to improve at least 2 local green spaces per year, using in-house expertise working with local communities	Southway Housing Trust	South	Annual	Ongoing
		Registered Housing Providers and partners, facilitated by Southway Housing Trust, to promote the importance of private gardens to residents and actions they can take to protect and enhance them, to include: • Creation of a forum to share best practice • Arranging 2 site visits per year to showcase best practice	RHPs, RA, MCC	Citywide	2018	Ongoing. New RHP GI Forum set up.
8	Sites of Biological Importance (SBIs): increase the number of SBIs in active management to conserve, protect and enhance biodiversity	MCC to work with land owners and managers to increase the numbers of SBIs in active conservation management by 1-5% annually. (In June 2015 Manchester has 38 SBIs; 55% are in active conservation management). Report progress annually to DEFRA.	Landowners MCC, GMEU	Citywide	2015-20	2018/19 60% SBIs in active conservation mgt including Rosehill Wood - upgraded and now in active conservation management.
		Map and survey SBIs to review current condition and identify opportunities for improvements.	MCC, Universities	Citywide	2015-2020	Ongoing
9	Local Nature Reserves: increase the coverage of LNRs in line with national guidance to 1 ha of LNR per 1,000 residents	Identify potential Local Nature Reserves or similar opportunities to reach target coverage of 1 hectare LNR per 1,000 residents in line with national guidance, over the 10 year lifetime of the Strategy – including Southern Cemetery and Moston Vale as candidate sites and within Parks	MCC, NE, GMEU	Citywide	2016-17	Ongoing
10	Health and wellbeing: deliver GI projects with a particular focus on improving health and wellbeing	Pilot the prescription of GI-based preventative health activities such as health walks, volunteering and use of courses to up-skill long term unemployed with health/addiction issues, to deliver improved health outcomes, as an alternative/complement to traditional approaches and measure the impact	NHS, MCC, Universities	Citywide	2016-20	New 3 year PhD funding project looking at the value of GI and health, working with MCC Policy and public health teams.

Objective 2 - Use appropriate green and blue infrastructure as a key component of Our Manchester link: A14 - Be a beacon for sustainable design.						Owner : Eddie Smith, Julie Roscoe
	Headline Action	Action	Stakeholders	Location: N,S,C,CC	Timescale	Progress
1	Embed new and existing GI as part of residential developments	Integrate high quality GI and appropriate SUDS, and a strategy for their long-term management, into major developments, from development framework and masterplan stage to delivery. To include:		Citywide	2018 - 2020	October 2018 - IGNITION GM £5million bid Successful, part of which will look at feasibility of SuDS in schools
		Circle Square	Bruntwood	Central	2015-19	Mixed student residential, leisure and office development including over 23,000sqm of public realm with significant green space (equivalent of four football pitches), 180 semi mature trees and over 1,000 plants and flowers, currently being delivered on site
		West Gorton Regeneration	MCC Guinness partnership/ Keepmoat Homes/ Communities Agency	Central	2017-	Large new community park as part of a comprehensive neighbourhood regeneration. Community Consultation on proposals undertaken during the autumn of 2018. Project delivery arrangements being firmed up in advance of procurement of contractor.
		Northern Gateway	MCC	North	2017-20	Ongoing. A major public consultation exercise for a Draft Strategic Regeneration Framework for the Northern Gateway has recently concluded and a Final version of the SRF will be taken to MCC's Executive shortly for approval. The SRF includes significant landscape proposals by FEC/Plan-it incorporating major integration of River Irk and natural landscape into a New City River Park. Proposals will be subject to Housing Infrastructure Fund submission in 2019.
2	Embed GI as part of city centre developments	Where appropriate integrate high quality GI and appropriate SUDS, and a strategy for their long-term management, into major developments, from development framework and masterplan stage to delivery. To include:		Citywide	2015-2025	(See below)
		• St John's public realm strategy	MQL (partnership between Allied London & MCC)	CC		Ongoing.
		Great Jackson St SRF		CC	2018	Ongoing. A new SRF was agreed in May 2018. The aim is to create a high quality residential neighbourhood underpinned by the creation of a high quality environment including areas of public space, shared/private amenity space and new pedestrian linkages and connections. The Owen Street development is on site, which includes a large riverside public open space. Crown St proposals which include a large green public space have received planning permission
		New Cross Public Realm Strategy and supporting Delivery Strategy	MCC and developer partners	CC	Approved Nov 2017	Ongoing. Currently a monitoring group (which will include representatives from Planning, Highways and Public Realm) is being put in place to oversee the implementation of the strategy and ensure that all appropriate s106 contributions and / or improvements to be delivered via planning conditions are captured at the decision-making stage. This to ensure that necessary upgrades to the public realm are delivered in a coordinated and collaborative way to support the creation of a successful residential neighbourhood.
		Mayfield public realm	LCR, MCC, TIGM	CC	2018 -	SRF Approved Feb 2018. The Council is working with partners to deliver a major new 6 acre city centre park as part of the Mayfield regeneration proposals. The Mayfield SRF area is adjacent to the North Campus area and will be easily accessible by those who live and work in the area.
		Medieval Quarter	MCC, Cityco, Chethams, Cathedral	CC,	2016 -	This includes a public realm strategy for the Medieval Quarter predicated on a landscaping scheme which provides an appropriate setting for some of the city's most historic architecture. Funding secured for Phase 1a with a planned start on site early 2019
		Great Ducie Street		CC	2018 -	Development contributes directly to the city's G&BI Infrastructure Strategy, placing an emphasis on high quality place making. The area possess natural assets, notably the River Irwell which offers a significant opportunity to create high quality public spaces.  SRF approved in Aug 2018 includes high quality public spaces which will be delivered through a phased approach as part of future development. A key green space is proposed within the 'park place' character area.
		North Campus Strategic Regeneration Framework	UoM MCC	CC	2017-	The North Campus SRF proposals maintain and extend the area's existing characteristic of smaller pocket parks / green spaces rather than a single larger space, with a slightly larger area of green space than exists now (2,330sqm). Any trees lost during development will be replace/replanted on other green areas of the site. Detailed design will include landscaping strategy relating to existing trees, planting and biodiversity. An investment framework across the whole site will be needed to deliver any additional amenity.

3	Embed GI as part of major employment developments	Airport City	Manchester Airport City Group, MCC, Plan.it and developer partners	South	2012-2027	Ongoing development of international business destination, including offices, hotels and ancillary retail in a high quality environment.
4	Retrofit new GI to existing buildings, particularly in the city centre	MACF and partners to deliver a programme of events to promote GI retrofit to city centre building owners and developers, including showcasing existing good practice	MACF GI, UK GBC	Citywide	2018	November 2018 - CoT delivering resilient cities seminar
5	Embed GI as part of new schools and major refurbishment	Deliver 'water resilient places' pilot project	BITC, MCC	C	2018	October 2018 - IGNITION GM £5million bid successful, part of which will look at feasibility of SuDS in schools
6	Establish temporary 'meanwhile' uses on sites awaiting development	Cityco and partners to develop stewardship and adoption of city centre GI	Cco, CRT	Citywide	2018	Friends of Rochdale 9 established, with community supported activity in the City Centre along the Rochdale Canal. Highly commended finalist at CIEEM awards 2018. Nominated finalist at Manchester Culture Awards 2018.

<b>Objective 3 - Improve connectivity and accessibility to green and blue infrastructure within the city and beyond</b>						Owner: Steve Robinson, Richard Elliott
<b>Our Manchester links: A13 - Be on a path to being a zero-carbon city by 2050.</b>						
<b>LL2 - Encourage walking, cycling and use of public transport, and continue to invest in infrastructure this requires</b>						
	Headline Action	Action	Stakeholders	Location: N,S,C,CC	Timescale	Progress
1	River valleys and canals: enhance river valleys and canal tow paths to improve accessibility and use as active transport corridors	Maintain accessible routes through Irk valley and Moston Brook	RVIs,	North	2015-18	Ongoing.
		Connecting Collyhurst - Walking Routes	MCC, GW, HLF	North	2017	July 2017. Launch of 5 walking routes, including fitness trails and safe routes to school
2	Green routes: greening transport routes (e.g. tramlines, footpaths, cycle routes, roads, rail corridors including disused), to encourage walking and cycling, reduce flood risk and provide corridors for wildlife	TfGM and partners to deliver the Green Corridor programme to encourage increased walking and cycling and measure the impact in terms of use and health outcomes	NHS, CoT, MCC, TfGM, GW, LWT, universities	Citywide	2015-20	Ongoing. TfGM are working in partnership with MCC, CoT, the Ramblers Assoc and Living Streets to refresh Manchester's Green Trail (previously called Manchester's Green Corridor) - a walking circuit made up of 14 routes originally established in 2012. These routes connect many of the City's parks, woodlands and open spaces.
		Develop and agree an approach with Network Rail and TfGM to encourage the management of transport corridors, including train lines, as green and blue assets that can provide multiple benefits, including providing an attractive welcome to the city	NR, TfGM, MCC, CoT, GW, Universities	Citywide	2015-20	Schemes delivered through TfGM along tram corridors in south, north and east Manchester. Potential to take this further through appropriate contacts within Network Rail being explored.
		TfGM to deliver Wildlife Habitat and Tree Replacement Policy providing replacement trees for every tree removed as part of development and infrastructure projects and resulting in a net increase in the number of trees across the city	MCC, TfGM, developers	Citywide	2015-20	Schemes delivered through TfGM along tram corridors in south, north and east Manchester.
		Tale of Two Cities Kew Grow Wild Project: wildflower planting in Hulme and Moss Side to improve 5ha of open space, including parks, verges and school grounds	MCC, Kew, LL, NT	C	2015-17	Completed. July 2017 Final report and event delivered. Grow Wild supporting one new project in Whalley range
		Establish a programme of citywide SuDS retrofit and identify funding for delivery	MCC	Citywide	2015-17	Ongoing. Discussions have taken place with United Utilities regarding adoption of SuDS
		Greater Manchester Growth Deal - Great Ancoats Street (between Oldham Rd and Pollard St). This project will reduce improve pedestrian access between the city centre and residential/commercial areas to the north west. It involves re-aligning existing, and introducing new pedestrian crossings, and enhancing the public realm, including the provision of a significant number of new trees; the trees will replace those lost through another Growth Deal scheme at Regent Road.	MCC / TfGM	City Centre and Fringe	by 2020/21	Ongoing. The scheme was granted Conditional Approval in April 2018, in line with the agreed Growth Deal governance arrangements. Detailed design work is underway in preparation for Full Business Case submission in spring 2019. Subject to obtaining the necessary approvals, a start on site is currently scheduled for autumn 2019.
3	Cross boundary working to improve access and connectivity	Link GI within the city with surrounding assets within GM, through landscape scale planning and ensuring that strategic level approach to GI is incorporated within any review of the Core Strategy and within the GM Spatial Framework.	MCC, GMCA,	Citywide	2015-18	Ongoing. Dec 2017 - Development of GM Mayor's 2nd Green Summit March 2019
		Continued support and promotion of Trans Pennine Trail (TPT) initiative	MCC, TPT	S	2015-20	Ongoing.
4	Use active and sustainable transport to access green infrastructure in the city and beyond	Chorlton Cycleway. Proposed, largely segregated cycleway between Chorlton and City Centre. This will improve access from the City Centre to the Mersey Valley and the TPT through the Hardy Lane corridor	MCC	S	Construction 2019-21	Consultation commenced end November 2018
		Northern Quarter Cycleway between Piccadilly and Victoria Stations Will connect with Regional Cycle Route 86 connecting with the Ashton Canal, National Cycling Centre, Medlock Valley in the east and Irwell River Park and Salford Quays in the west.	MCC	CC	Construction TBC	Following discussion the design of this scheme is being reviewed

	Headline Action	Action	Stakeholders	Location: N,S,C,CC	Timescale	Progress
		Identify and promote public transport routes that can be used to access major parks and greenspaces in Manchester and beyond	MCC, TfGM, CoT	Citywide	Ongoing	Development of Green Connections project with TfGM and CoT
		Explore the development of a network of walking and cycling routes to access open spaces in Manchester and beyond	MCC, TfGM	Citywide	Ongoing	This work is being developed as part of the wider GM wide 'Beeline' cycling and walking infrastructure network and is in early inception stages.

<b>Objective 4 - Improve and promote a wider understanding and awareness of the benefits that green and blue infrastructure provides to residents, the economy and the local environment</b>						Owner: Richard Elliott
<b>Our Manchester link: A11 - Be a City recognised for its high quality of life, with improved green spaces and access to world-class sport, leisure and cultural facilities.</b>						
	Headline Action	Action	Stakeholders	Location: N,S,C,CC	Timescale	Progress
1	Monitor existing GI within the city	Universities and the Council to establish a mechanism for ongoing review of GI across the city in order to understand distribution and changes over time. To include open access data, wherever possible.	Universities, MCC, LO, STAT, MM	Citywide	2018	Ongoing. UoM developing Community GI mapping project - MeMo. Hulme Ecosystem Services Appraisal completed. Natural Course - Medlock Ecosystem Services appraisal completed. My Backyard - MMU garden project completed Green infrastructure and the Health and wellbeing Influences on an Ageing population (GHIA) - ongoing
2	Embed GI in key plans and policies	Embed GI into the review of the Local Plan in line with Our Manchester We Wills	MCC	Citywide	2018-22	Ongoing. Local Plan Review to commence during 2019
		The Council, Registered Housing Providers and other partners to integrate GI as part of place plans, with assets and priorities for action identified, and clear responsibility for delivery.	MCC, RHPs	Citywide	2015-18	Ongoing. RHPs developing independent plans.
		Ward councillors and local communities to include GI activity in ward plans as appropriate, drawing from the Eco neighbourhoods pilots in Gorton, Rusholme, Whalley Range, Moston, and Old Moat	Ward Councillors, COM	Citywide	2018	Ongoing. Hulme Ecosystem Services assessment integrated into ward plan.
		Integrate GI as part of the refresh of the Manchester Health & Wellbeing Strategy, recognising the ability of G&B to deliver positive mental and physical health outcomes.	MHWB	Citywide	2018	The decision has been made to align the HWB Strategy with Our Manchester (i.e 10 year time frame). However the short term delivery of the Strategy will be through the Manchester Locality Plan agreed by the HWB in April 2016. The Locality Plan has a strong focus on prevention including the social prescribing model and emphasises the need to address the wider determinants of health (including G&B). 2018 Links to health and GI being explored by 3 yr PhD working with MCC public health and policy teams with potential for links with the age friendly agenda
		MCC, GMEU, LWT and other partners to review the Manchester Biodiversity Action Plan in the context of the new GI Strategy and agree next steps	MCC, GMEU, LWT	Citywide	2018 -22	£250,000 funding secured. 4 years. Two new posts. Engage with communities and develop a new vision for nature in the city. .
		MCC, CoT and other partners to review the Manchester Tree Strategy Action plan in the context of the new GI Strategy and agree next steps	MCC, CoT	Citywide	2018-19	Develop Principles of Tree Management for Manchester. Working with CoT to undertake new tree audit for MCC
		The Greater Manchester Transport Strategy 2040 (formerly LTP) was published by TfGM in February 2017 and sets out long-term proposals to create a cleaner, greener, more prosperous city region through better connections and simpler travel supported by a five year delivery programme.	TfGM	Citywide	2015-20	Ongoing. Within the Strategy there is a focus on improving the quality of life of residents partly through providing good walking, cycling and public transport access to leisure facilities and links to green spaces. See Objective 3 above

	Headline Action	Action	Stakeholders	Location: N,S,C,CC	Timescale	Progress
3	Develop research into the benefits of GI to residents, the economy and the environment to provide the basis for new policy, projects, programmes and investment mechanisms	Local universities, MCCA and MCC to establish an ongoing programme of collaborative GI research, initially for 2015-20, to measure the impact of GI across the range of social, economic and environmental benefits set out in the Strategy.	UoM, MMU, UoS, MACF GI, MCC	Citywide	2015-20	Ongoing. £1.2 Million NERC funding secured Green Growth, GHIA and gardens and ecosystem services EU EnRoute project, developing best practice approaches using GI across 20 European Cities Successfully bid for £5mill EU project IGNITION with European Investment Bank looking at investigating alternative ways of funding GI interventions within GM.
		Undertake research to: • Understand the physical and mental health conditions that could be improved through the use of and/or exposure to G&B and • Identify areas for more specific Manchester based cost/benefit research to test the feasibility of these	UoM, MMU, UoS	Citywide	2015-20	Ongoing. GHIA project. PhD continues research into increasing understanding of connection between green infrastructure and physical activity/wellbeing
		Research into barriers to undelivered schemes of GI within new development and those that could have been improved or delivered differently	MCC, UoM, MMU, UoS	Citywide	2016-18	Green Growth ongoing
		Research to identify new models for the management and maintenance of GI, post-construction, including identifying case studies of successfully delivered and maintained schemes of GI in new development	MCC, UoM, MMU, UoS	Citywide	2015-20	Ongoing. GrowGreen engagement and masterplanning undertaken. 2018 IGNITION project success looking at financing GI in Cities
4	Showcase local best practice and seek recognition for delivered projects	Create an interactive, publicly accessible, web based project database and map to capture planned and completed GI projects	MACF GI, UoM, MMU	Citywide	2015-18	Ongoing. MeMo project in development, MCC dashboard
		Applying for national awards wherever appropriate e.g. Britain in Bloom RHS Awards for community greening projects	MCC + others as appropriate	Citywide	2015-18	2018 CIEEM Award Winner GI Strategy Floating Ecosystems nominated finalist Clean Streams nominated finalist 130 In Bloom awards citywide in 2015 126 In Bloom Awards citywide in 2016 166 In Bloom Awards citywide in 2017 154 In Bloom Awards citywide in 2018
5	Raise the awareness of the benefits of GI through public communication, education and training	Use the publicity around nationally promoted GI projects to improve local awareness of GI benefits and encourage behaviour change.	MCC + others as appropriate FoE, UoM	Citywide	2018	2018 £190,000 Protecting Playgrounds scheme funded looking at schools, GI and air quality First Social Media campaign around Manchester Festival of Nature ( MFoN)
		Embed GI in public activities aimed at behaviour changing e.g. to increase community responsibility and ownership of shared spaces	RHP, MCC	Citywide	2018	Ongoing. See Bloom Awards above
		NHS to promote GI-based sport, leisure and recreation activities to NHS patients, through existing and new NHS channels, and measure the health impact, wherever possible.	NHS	Citywide	2015-20	Christie Hospital have organised a lunchtime walking group as part of its drive to promote sustainable travel and encourage people that work in Manchester to benefit from our G & B. Last year the Christie working with MCC earned TfGMs Gold Award for their travel plan. This award sets a bench mark for other employers to strive for and to drive good practice.
		Training session for developers, planners, urban designers, to increase awareness of cost benefits of incorporating SuDS in development and highways schemes.	MACF, MCC	Citywide	2018	Ongoing. Nov 2018 CoT GI and Resilient Cities seminar Nov 2018 LWT Nature of Cities Event



	Headline Action	Action	Stakeholders	Location: N,S,C,CC	Timescale	Progress
		RSPB appoint new family engagement officer	RSPB, MCC	Citywide	2016 - 18	2016: 1081 people engaged with Nature 2017: 1386 people engaged with Nature 2018: This part of the Aldi funding has now come to an end. However, volunteers at Chorlton Water Park have continued to use the resources to deliver a total of 351 connections to nature so far this financial year.
		RSPB to appoint new education officer to work with schools in South Manchester (as part of the MCC-RSPB Mersey Valley Partnership)	RSPB, MCC	S	2015-18	Ongoing. 2015/16: 7 Schools visited 978 students engaged 2016/17: 2360 nature connections across 16 different schools. April 2017/18: 421 nature connections across 5 schools and early years April 2018 - present: 479 nature connections so far across 16 schools
		Manchester Museum to identify opportunities to promote the city's natural environment at national and international level	MM	C	2018	Organised conference on Climate Change and Museums, with participation from UNFCCC and IPCC. Presentations were published as a book by Springer, Addressing the Challenges of Climate Change Communication Across Various Audiences Published 3-volume Handbook of Climate Change Communication Participated in UNFCCC workshop on Action for Climate Empowerment, along with Manchester Climate Change Agency
		Manchester Museum to deliver the wildlife friendly gardening project to promote wildlife friendly gardening to residents and visitors and promotion of nature via '7 Million Wonders' brochure	MM	C	2018	Ongoing. Gardening project linked in with Whitworth Park Cultural Gardener
6	Raise the profile of Manchester as a an attractive place to live with access to high quality GI within and beyond Manchester	Use the city's GI to attract visitors and create new recreation opportunities.	All	Citywide	2018	Ongoing. Development of Manchester Festival of Nature, Green Trail (Corridor) update
		Promote Parks including production of city centre green guide	MCC, universities	CC	2018	Launch of Sprytar App

# Manchester Tree Action Plan 2016-20 - Progress Update December 2018

## Objective 1 – Managing Sustainably

	Headline Action	Potential projects/activities	Delivery Agencies	Time-scales	Progress
1	<b>Map and monitor changes in the amount and distribution of trees across the city</b>	Refine datasets of tree and woodland cover  Refresh Manchester Tree Audit	Universities, CoT  GM partners, CoT, FC	2017-20  2017-20	CoT and GM partners deliver iTrees eco assessment of tree cover across GM
2	<b>Develop a fuller understanding of the City's tree resource</b>	Develop MCC tree management system  Deliver annual highway tree inspection programme  Investigate online mapping tool of planned tree works in the City  Encourage network of data gathering and information sharing e.g. University access to canopy data for research  Investigate opportunities for valuing Manchester tree stock including: <ul style="list-style-type: none"> <li>The development of an ecosystem services valuation of treescape</li> </ul>	MCC  MCC  MCC, Universities  MCC, CoT, FC, Universities  Universities, CoT	2016  2016-20  2017-19  2016-20  2017 -2020	Complete  Ongoing  Ongoing  Utilised tree audit for Hulme and Medlock Eco System Services work, UoM tree trail, My Back Yard, GHIA  CoT and GM partners deliver i-Trees eco assessment of tree cover across GM – Value of Mcr Tree stock - £3Million Annually
3	<b>Ensure continued and sustainable management of all trees and woodland and best practice approaches employed</b>	Develop, agree and embed principles of tree management in Manchester  Develop tree and woodland management plans for MCC parks and greenspaces, which include: <ul style="list-style-type: none"> <li>No waste timber going to landfill</li> </ul>	MCC  MCC, CoT, GMEU, CGs	2017- 19  2016-20	Draft Principles of Tree Management for Manchester submitted to Scrutiny Jan 2019  Ongoing - Park Strategy approved with a commitment to develop site specific management

	Headline Action	Potential projects/activities	Delivery Agencies	Time-scales	Progress
		<ul style="list-style-type: none"> <li>Consideration of sustainable uses of woodland by-products</li> </ul> <p>Develop tree focussed opportunity mapping for :</p> <ul style="list-style-type: none"> <li>Parks and open spaces</li> <li>City centre</li> <li>Neighbourhoods</li> </ul> <p>Encourage the development of tree and woodland management plans by all landowners and managers of trees in Manchester</p> <p>Develop tree management good practice case studies as part of MACF GI Group</p>	<p>MCC CoT</p> <p>RPs, Universities, Network Rail, other landowners</p> <p>Mcr GI Group</p>	<p>2016-20</p> <p>2016-20</p> <p>2016-20</p>	<p>plans for 15 parks Citywide.</p> <p>Wythenshawe Park Masterplan being developed.</p> <p>CoT City Re-leaf Opportunity mapping Document approved by GI Board</p> <p>RHPs developing independent tree management policies and plans</p> <p>Tree related Case Studies produced including Heroes Wood and Stenner Woods and Rosehill Wood</p>
4	<b>Ensure green and blue infrastructure (including trees and tree management) are considered as part of major new developments and retrofits, policy and strategy reviews where appropriate.</b>	<p>Major development projects to include: Transport infrastructure changes Mayfield Medieval Quarter St Johns Kampus Northern Gateway</p> <p>Local Plan Review, Park Strategy</p>	<p>MCC, TfGM, Developers</p> <p>MCC</p>	<p>2016-20</p> <p>2016-20</p>	<p>Ongoing. First stakeholder engagement undertaken on Northern Gateway</p> <p>Park Strategy approved 2017</p>
5	<b>Develop climate resilient approaches to tree and woodland management</b>	<p>Encourage use of trees within broader climate resilient adaptive plans e.g. Sustainable Urban Drainage projects, public realm improvements</p>	<p>GM CoT, MCC RPs</p>	<p>2016-20</p>	<p>Ongoing. Potential tie in with Wuhan Sponge Cities network through the GrowGreen Project, with projects including Kampus, Mayfield and Northern Gateway</p>

	Headline Action	Potential projects/activities	Delivery Agencies	Time-scales	Progress
		Develop Ash Dieback Strategy in partnership with Natural Capital Group	GM, CoT, MCC, FC, MCC, CoT	2016-20	Ongoing. National Forestry Commission monitoring underway.
		Encourage diversity of tree stock e.g. appropriately diverse species and age ranges to help increase resilience to pests and disease	CoT, MCC, RPs	2016-20	Ongoing.
6	<b>Develop partnership projects that sensitively improve the functionality of the treescape</b>	<p>Develop appropriate projects to deliver the City of Trees vision in Manchester including:</p> <ul style="list-style-type: none"> <li>Heritage Trees</li> <li>Forest Schools</li> <li>Community Orchard planting and management</li> </ul>	<p>CoT,</p> <p>LWT, MBP, MVP, GW,</p> <p>CoT, OP</p>	<p>2016-20</p> <p>2016-20</p> <p>2016-20</p>	<p>Ongoing</p> <p>Forest Schools activity citywide being undertaken by groups incl. GW in Collyhurst, LWT in Moston, Paupers Wood in Old Moat, and independent forest school use in the Mersey Valley and at Highfield Country park</p> <p>45 orchards planted cumulatively</p>

## Objective 2 – Planting Appropriately

	Headline Action	Potential projects/activities	Delivery Agencies	Time-scales	Progress
1	<b>Ensure continued healthy and diverse tree canopy cover across the City</b>	<p>Sustain tree and woodland canopy cover of 20% average to 2025</p> <p>Deliver suitable and sustainable tree planting projects which support biodiversity, in line with the G&amp;BI Strategy, tree audit baseline, park strategy and neighbourhood place plans, including:</p> <ul style="list-style-type: none"> <li>- One for one tree replacement for highways trees</li> <li>- Delivery of tree replacement policies across city</li> <li>- 150 Highways Tree planted annually (combination of new and replacement)</li> <li>- 1000 hedgerow trees planted annually</li> <li>- 1500 trees planted annually</li> </ul> <p>Develop Beacon/Heritage Trees Mapping project</p>	MCC, RVIs, RPs, CoT, Woodland Trust, LWT TfGM,	2016-20	<p>2016/17 2961 trees planted, including 6 orchards and 832 hedge trees</p> <p>2017/18 4933 trees planted including 4 orchards and 1585 hedge trees</p>
2	<b>Continued planting of community orchards in suitable locations</b>	<p>Planting of at least 4 new community orchards annually</p> <p>Mapping of Community orchard locations</p> <p>Encourage cropping, harvesting , distribution and usage of food provided</p>	<p>RFW, CoT, RPs, MCC, OP, CGs</p> <p>MCC OP CoT</p> <p>OP CoT RFW CGs</p>	<p>2017-20</p> <p>2017-18</p> <p>2016-20</p>	<p>45 orchards planted cumulatively</p> <p>Ongoing Collaboration with OP</p> <p>Ongoing</p>

	Headline Action	Potential projects/activities	Delivery Agencies	Time-scales	Progress
3	<b>Investigate mechanisms for funding new tree planting, management, and maintenance</b>	<p>Support the delivery of the City of Trees Vision for Greater Manchester by:</p> <ul style="list-style-type: none"> <li>Active involvement in the GM Forest Partnership (GMFP)</li> <li>Working collaboratively to develop sustainable tree planting and management project ideas through, for example: <ul style="list-style-type: none"> <li>MCC Parks and greenspaces opportunity mapping programme and tree sponsorship opportunities</li> <li>Investigating commercial opportunities for trees and woodlands</li> <li>Neighbourhood tree planting opportunities</li> </ul> </li> </ul>	MCC, Mcr GI Group, CGs	2016-20	<p>Three GMFP Meetings held in 2018</p> <p>Initial meetings with CoT, MCC and Stobart Forestry to discuss tree management opportunities. See tree planting figures</p>
4	<b>Develop a climate resilient approach to tree planting</b>	<p>Utilise a mixture of native and non native planting projects to ensure resilience against pests and diseases</p> <p>Reduce risk of tree pests and disease by ensuring all new trees planted are from registered and approved sources</p> <p>Promote SuDS friendly demonstrators eg Gorton Grow Green</p>	<p>MCC, Mcr GI Group, CoT, CGs</p> <p>MCC, CoT</p> <p>CoT, MCC RPs</p>	<p>2016-20</p> <p>2016-20</p> <p>2016-20</p>	<p>Ongoing. Southern Cemetery Urban Arboretum concept being developed utilising native and non- native stock</p> <p>Public consultation and initial design works undertaken</p>

### Objective 3 – Protecting Strongly

	Headline Action	Potential projects/activities	Delivery Agencies	Time-scales	Progress
1.	<b>Investigate effective tree replacement and compensation measures</b>	Develop and agree appropriate compensation measure for tree loss and replacement in Manchester	MCC, CoT	2018-19	Ongoing. Cavat tree value assessment being used by MCC planners. Establishment of Residential Quality Design Guide
2.	<b>Ensure trees of high value are designated as Tree Preservation Orders (TPOs)</b>	Continue to designate new TPOs as appropriate	MCC	2016-20	Ongoing
		Enforce as appropriate against unauthorised works to trees protected by tree preservation orders or within conservation areas	MCC	2016-20	Ongoing
		Promotion of the Tree Preservation Order process via neighbourhood teams	MCC, CoT, Partners	2016-20	Ongoing
3	<b>Sites of Biological Importance (SBIs): increase the number of SBIs in active management to conserve, protect and enhance biodiversity</b>	Increase the number of sites of biological importance (SBIs) in active conservation management by 1-4% annually, working with landowners and land managers	MCC GMEU	2016 –20	2016/17: 57.89% of SBIs in active conservation management. Active work with UoM volunteers on Painswick Park meadow and Castle Hill SBIs
		Provide statistical report to Defra annually	MCC	Annual	2017/18 60.53% of SBIs in active conservation management – Gibb Wood work undertaken
4.	<b>Use planning conditions to ensure high standard of tree works, protection and management</b>	Tree officers to provide guidance and advice through the planning process to ensure compliance of tree works against: <ul style="list-style-type: none"> <li>BS 5837 (the British Standard for Trees in relation to design, demolition and construction)</li> <li>BS 3998 ( the British Standard for Tree Work)</li> </ul>	MCC, Developers	2016-20	Ongoing
			MCC, CoT	2016-18	Ongoing

## Objective 4 – Involving Creatively

	Headline Action	Potential projects/activities	Delivery Agencies	Time-scales	Progress
1.	<b>Further develop research into the benefits of trees</b>	<p>Local universities, MACF and MCC to establish an ongoing programme of collaborative GI research including trees, initially for 2016-20, to measure the impact of GI across the range of social, economic and environmental benefits set out in the Strategy. To include:</p> <ul style="list-style-type: none"> <li>NERC Gardens and Ecosystem Services project</li> <li>Nerc GHIA project</li> <li>Nerc Green Growth</li> </ul> <p>Update GI Evidence base with tree and woodland related research</p>	<p>Universities, MCC, Mcr GI Group MCCA</p> <p>MMU UoM UoM</p> <p>CoT, MCC Universities</p>	<p>2016-20</p> <p>2016-20</p>	<p>Ongoing.</p> <p>UoM i-Trees Eco tree value work being undertaken</p> <p>My Back Yard garden survey completed with agreed action plan</p> <p>13 tree related research items added to GI Evidence database</p>
2.	<b>Encourage and record the delivery of community led and focussed tree projects and food growing</b>	<p>Projects to include:</p> <ul style="list-style-type: none"> <li>Real Food Wythenshawe</li> <li>Wythenshawe Woodlands</li> <li>Green Connections</li> </ul>	<p>RFW, CGs</p> <p>CoT. CGs</p> <p>CoT, CGs</p>	<p>2016-20</p> <p>2018-20</p> <p>2016-19</p>	<p>Ongoing – new funding secured</p> <p>New funding secured</p> <p>3 x pilot woodland management areas to be developed - funded by HLF</p> <p>Draft list of accessible walking routes across the City being developed</p>
3.	<b>Raise the awareness of the benefits of trees</b>	<p>Establish social media platforms for ongoing promotion of tree related information</p> <p>Ward councillors and local communities to include tree activity in ward plans as appropriate</p>	<p>Ward Cllrs, Mcr GI Group CGs, MCC, OP, MCCA</p>	<p>2016-20</p>	<p>CoT, Woodland Trust Websites</p> <p>Trees Update provided via ward newsletter</p>



	Headline Action	Potential projects/activities	Delivery Agencies	Time-scales	Progress
4	<b>Provide opportunities for community engagement, involvement and activity</b>	<p>Support for and delivery of tree related activity, training and capacity building- Related volunteer opportunities to include:</p> <ul style="list-style-type: none"> <li>• “Friends of” group events and activities</li> <li>• Development of CoT Citizen Forester Volunteer Scheme</li> <li>• River Valley Initiative volunteer and engagement opportunities</li> </ul> <p>UoM Tree Trails – A ten-year project creating world-class facilities for staff, students and visitors to enjoy as part of University’s Campus masterplan.</p>	<p>Mcr GI Group, CGs, MCC, OP, MCCA</p> <p>UoM</p>	<p>2016-20</p> <p>2017 - 2020</p>	<p>My Wild City Project and MFoN – funding secured</p> <p>Ongoing</p> <p>Three interactive trails launched that highlight 50 of the 1,500 trees across Oxford Road Campus, North Campus and Whitworth Park.</p>
5.	<b>Showcase local best practice and seek recognition for delivered projects</b>	<p>Apply for national awards wherever appropriate e.g. Britain in Bloom RHS Awards for community greening projects</p> <p>Encourage nomination of Champion trees as part of notable and ancient trees in Britain and Ireland register</p>	<p>MCC</p> <p>MCC</p>	<p>2016-20</p> <p>2016-20</p>	<p>2017 166 In Bloom Awards</p> <p>2018 154 In Bloom Awards</p> <p>Ongoing</p>
6.	<b>Raise the profile of Manchester as an attractive place to live, work and visit with access to high quality GI within and beyond Manchester</b>	<p>Use of the city’s trees and woodlands to attract visitors and create new recreation opportunities.</p> <p>Promote the City’s existing parks and green spaces to maximise their usage by local communities, workers and visitors</p>	<p>Mcr GI Group, MCC, MCCA, MM, UoM, MCC</p> <p>MCC, Mcr GI Group, CGs</p>	<p>2016-20</p> <p>2016-20</p>	<p>Heaton Park natural Play Area being developed</p> <p>Wythenshawe Park Masterplan being developed</p> <p>My Wild City Project and MFoN</p> <p>Ongoing</p>

## Abbreviations

City of Trees	CoT
Community groups	CGs
Environment Agency	EA
Forestry Commission	FC
Greater Manchester Ecology Unit	GMEU
Groundwork	GW
The Wildlife Trust For Lancashire, Manchester and North Merseyside	LWT
Manchester – Green and Blue Infrastructure Stakeholder Group	MCR GI Group
Manchester Climate Change Agency	MCCA
Manchester City Council	MCC
Manchester Garden City	MGC
Manchester Metropolitan University	MMU
Manchester Museum	MM
Natural England	NE
The Orchard Project	OP
Real Food Wythenshawe	RFW
Registered Providers (Formerly Registered Housing Providers)	RP
River Valley Initiatives:	RVI
Irre Valley Project	
Medlock Valley Project	
Moston Brook Partnership	
Mersey Valley Partnership	
Transport for Greater Manchester	TfGM
Tree and Design Action Group	TDAG
University of Manchester	UoM
University of Salford	UoS
The Woodland Trust	WT