

GREATER MANCHESTER



The Greater Manchester Economy



2.8m people
+240,000 since 2000



1.4m working in GM
+100,000 over next 10 years



118,720 businesses



Over 100,000 Higher Education Students
at 5 HE Institutions

Gross Value Added



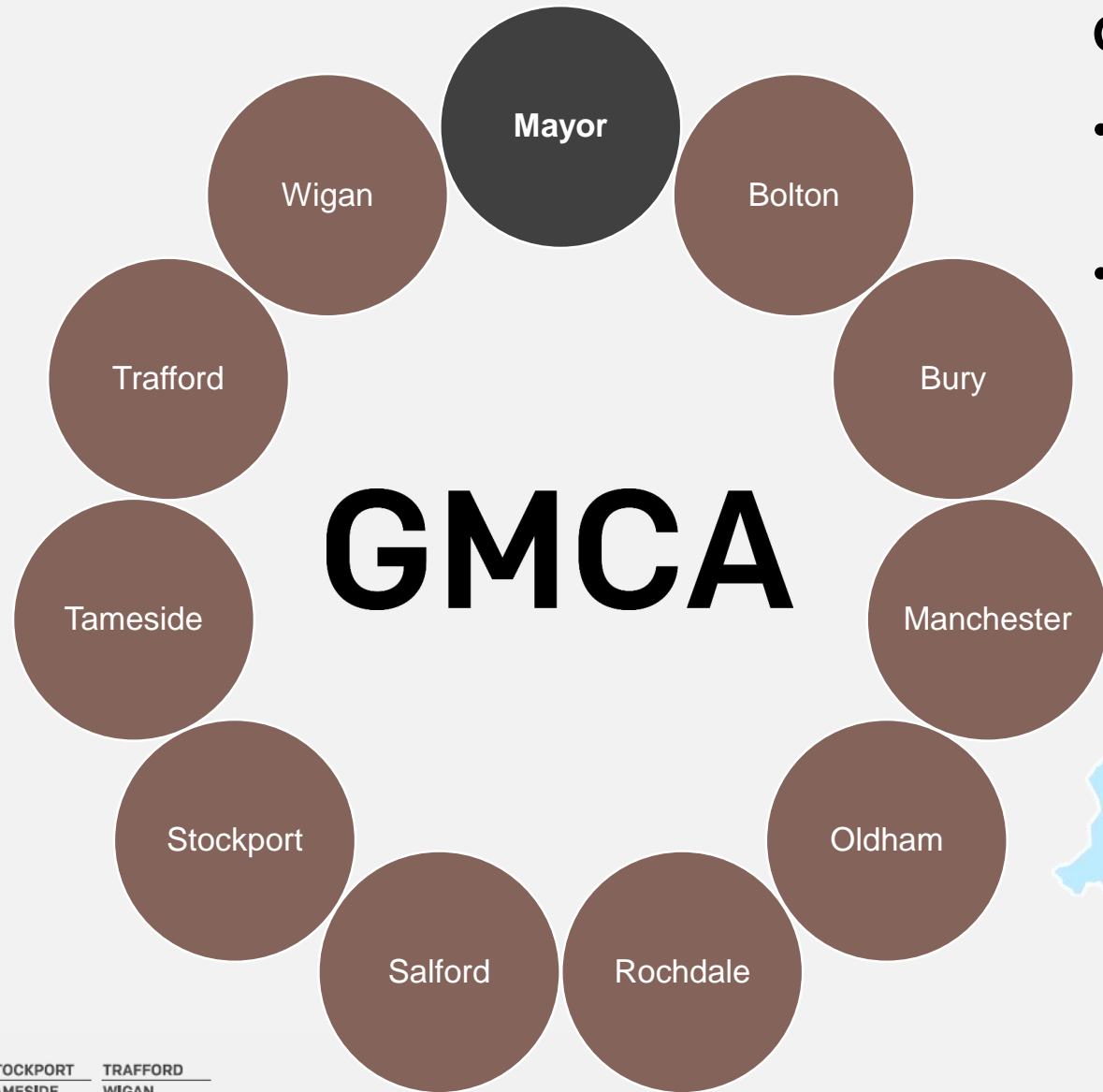
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GREATER MANCHESTER

The most devolved UK City
Region

The National Story: A devolution journey



GM Combined Authority has:

- Largest number of constituent authorities
- Greatest powers



GMS: Our new strategic approach: 10 priorities

Let's make



1
Children starting school ready to learn



2
Young people equipped for life



3
Good jobs for people to progress and develop



4
A thriving economy in Greater Manchester



5
World-class connectivity

Greater Manchester

one of the best



6
Safe, decent and affordable housing



7
A green city for all



8
Safe and strong communities



9
Healthy lives and quality care



10
An age-friendly Greater Manchester

places in the world

**“Our target is for
Greater Manchester to
be Carbon Neutral by
2038”**

**“Our ambition is for
Greater Manchester to
be a recognised global
digital city region and
top five in Europe by
2020”**



GREATER MANCHESTER ASSETS

Low Carbon & Science

- Four Universities
- Graphene Engineering Innovation Centre (graphene first isolated in Manchester)
- Hydrogen Fuel Cell Centre of Excellence – commercialisation of fuel cells
- Energy House 2.0 – life scale house in a controlled laboratory
- The Greater Manchester and Cheshire East Science Audit Report (2016), co-created by GMCA, universities and partners.
- Greater Manchester Industrial Strategy (2019) to be published in May – UK's first city scale Clean Growth Mission.



Towards a Green Connected Smart Society

1. Ubiquitous Connectivity
2. Integrated Infrastructure – transport, energy, digital, natural capital
3. Open Data driving innovation
4. Inclusive Low Carbon Economy
5. Embedded Ethical Values

Low Carbon / Environment Sector

- GM has a strong sector –Ranked 3rd in UK behind London and South East
- Comprises 2400 companies, employing 45,000 people with £6.7bn sales per annum – a 6.3% growth on previous year.
- Strongest performing sub-sectors (excluding alternative fuel and fuel vehicles) are Building technologies, carbon finance, Wind, Geothermal, Biomass and PV, Recovery and recycling.
- 3rd largest sector grouping in GM - after Business, Finance & Professional and Public Sector. LCEGS sector equates to 13.6% of total GM GVA.



Environmental challenges and opportunities for Greater Manchester

5 environmental threats and challenges to Greater Manchester

Climate change – mitigation

More radical local and national action to accelerate CO₂ emissions reductions

Air Quality

Health impacts of particulates and nitrogen dioxide – NO₂ levels in breach of legal limits

Production and consumption of resources

Throwaway society, linear waste models and particular issues with plastic and food waste

Natural Environment

Reducing biodiversity and environmental quality – lack of other sources of investment

Climate change – resilience and adaptation

Increasing risk of extreme weather events – particularly flood risk but also heat stress

3 opportunities in tackling them

People

Improve health and quality of life, increase productivity and reduce inequality

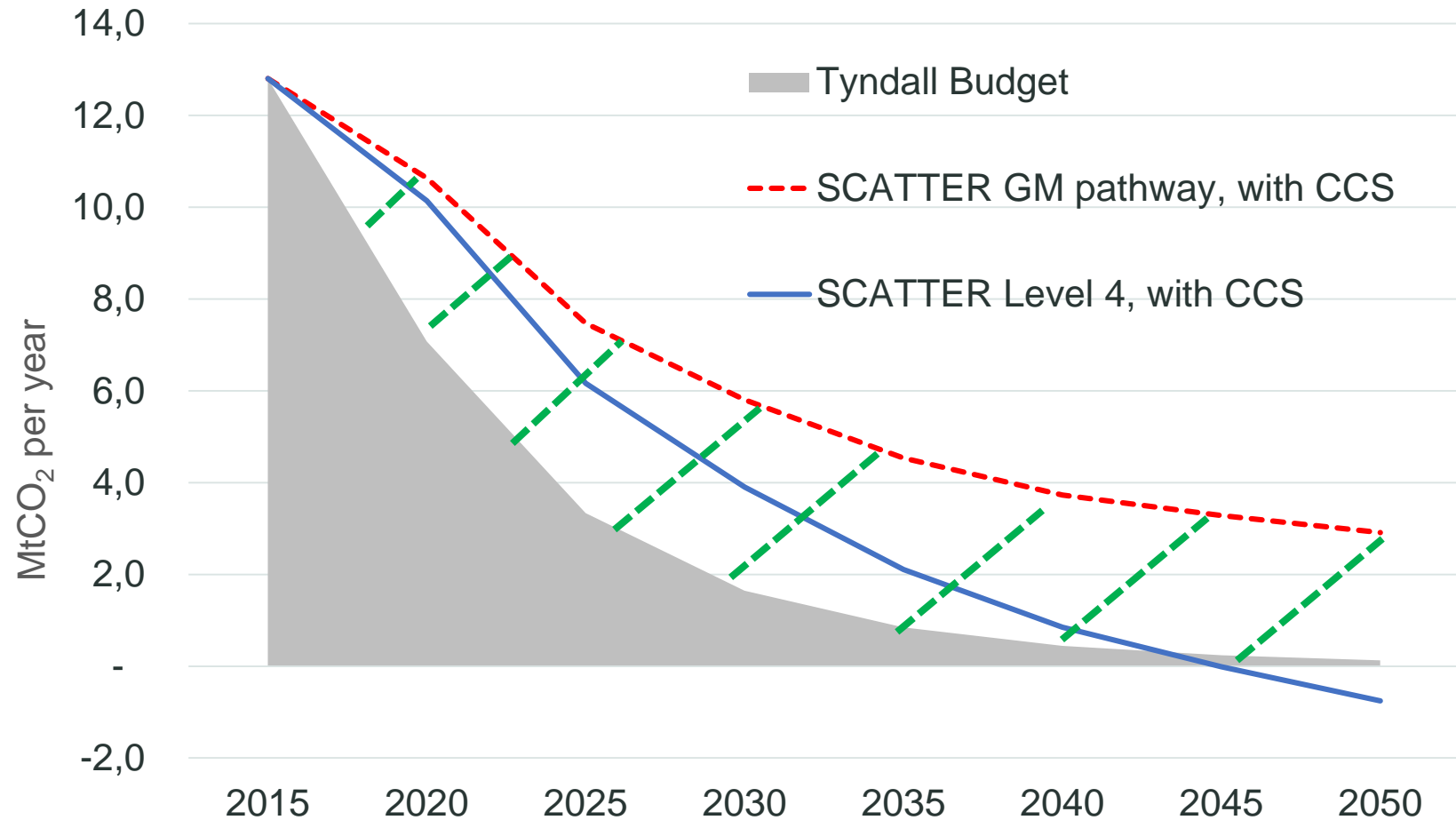
Places

Create vibrant and sustainable places and good quality homes

Economy

First mover advantage – increase prosperity and productivity

Models useful in informing the scale of the challenge



Most significant carbon drivers:

- Buildings
- Cars, vans, taxis, motorcycles
- Decarbonisation of electricity

Other important drivers:

- Industry
- Freight
- Public transport
- Other (e.g. waste, agriculture)

Focus on the innovation that can close the gap:

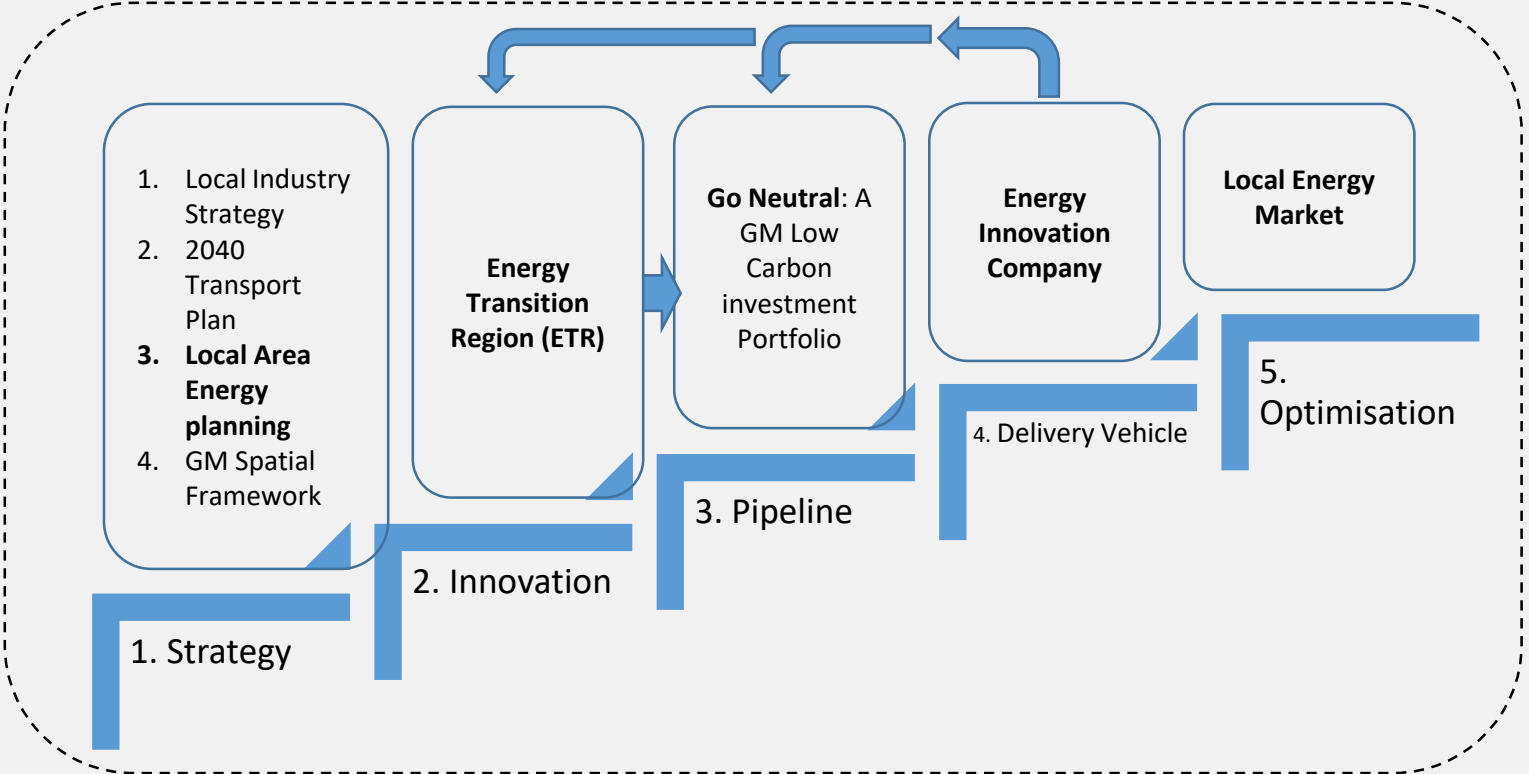
- Technology
- Finance and funding
- Partnerships
- Leadership
- Engagement and education
- Skills

2016-2050 Total Emissions	Tyndall 94.5 MtCO₂	SCATTER L4 111.9 MtCO₂	SCATTER GM 191.8 MtCO₂
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Carbon Neutral City Region

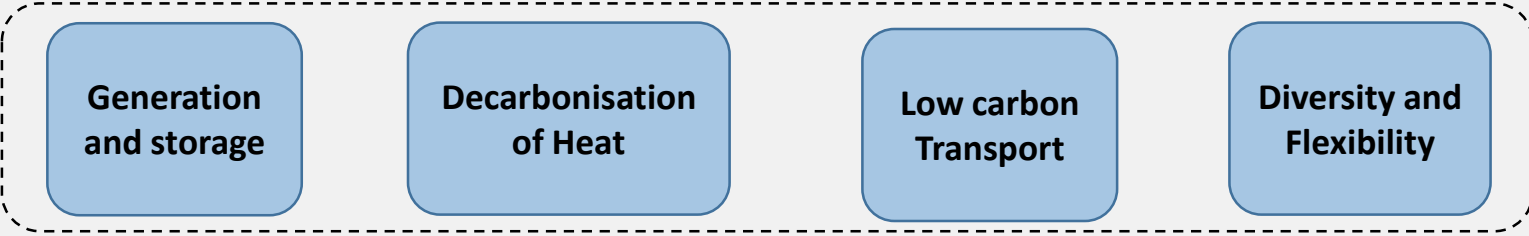
2038

GM Whole System Smart Energy Framework



2019

Priority Areas



Bringing it together – our overall approach

Supporting innovation in technology

Innovation ecosystem to support all firms to be innovative, supporting the creation of new products and services (e.g. Energy Transition Region proposals)

Taking new approaches to funding and financing

Long-term sustainable funding models for infrastructure.
Developing business models in unproven areas (whole house retrofit; natural environment)

Building on public and private sector partnerships

Continuing the engagement from 2018 Green Summit, with GMCA convening stakeholders around key challenges and through a mission-oriented approach

Showing leadership

A set of commitments from GMCA/LAs, plus health and social housing providers, showing we are leading by example.

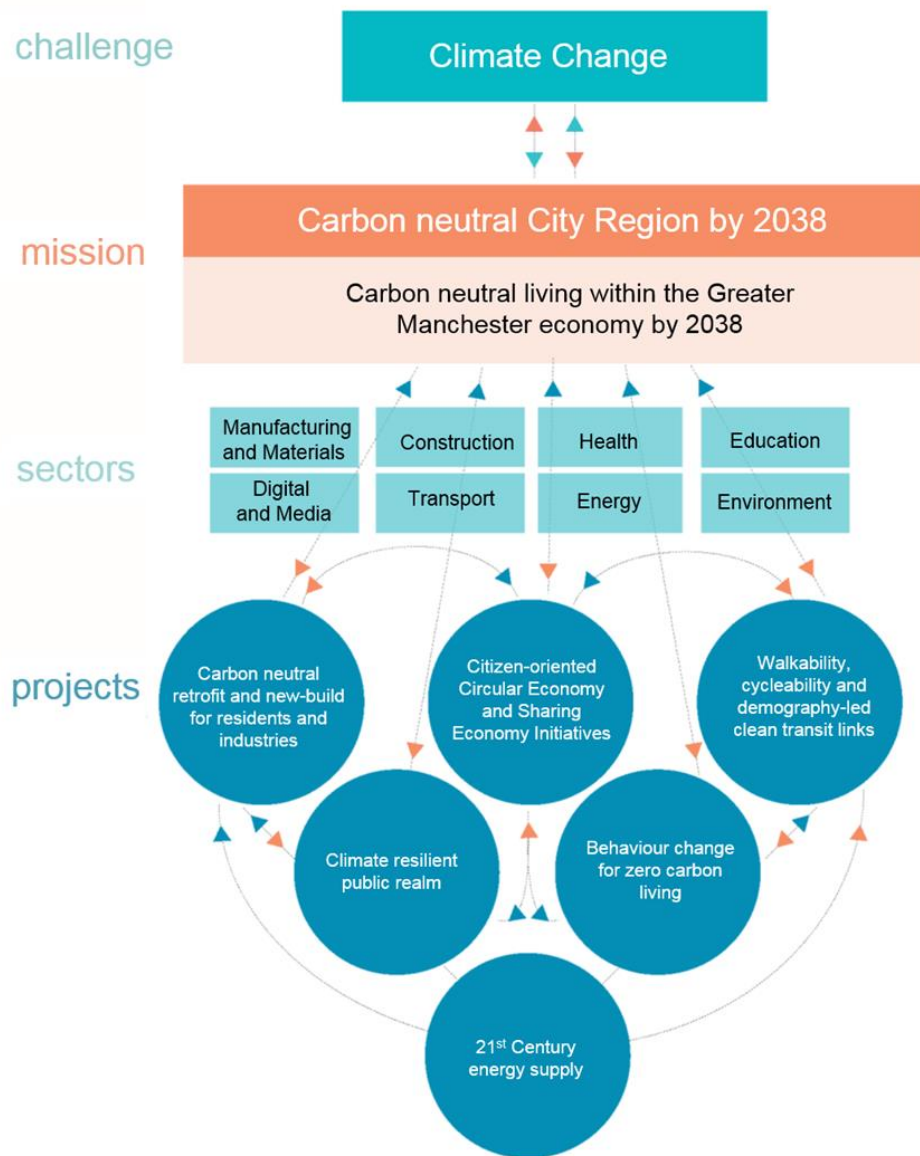
Engaging & educating residents, communities and businesses

Make a programme of carbon literacy available to young people through the GM career portal, in addition to our own commitments on carbon literacy for staff in procurement.

Upskilling our workforce

Engage the sector in BridgeGM, to better link business leaders into schools and colleges.

Our overall delivery approach – UK’s first city scale Clean Growth



We want to establish the UK’s first city region **Clean Growth Mission** for carbon neutral living by 2038, driving innovation, the creation of new technologies, and improved resource efficiency.

This involves:

- Defining an ambitious goal
- Using this to create a long-term policy landscape
- Collectively setting out tasks to mobilise people and groups to come together in new ways

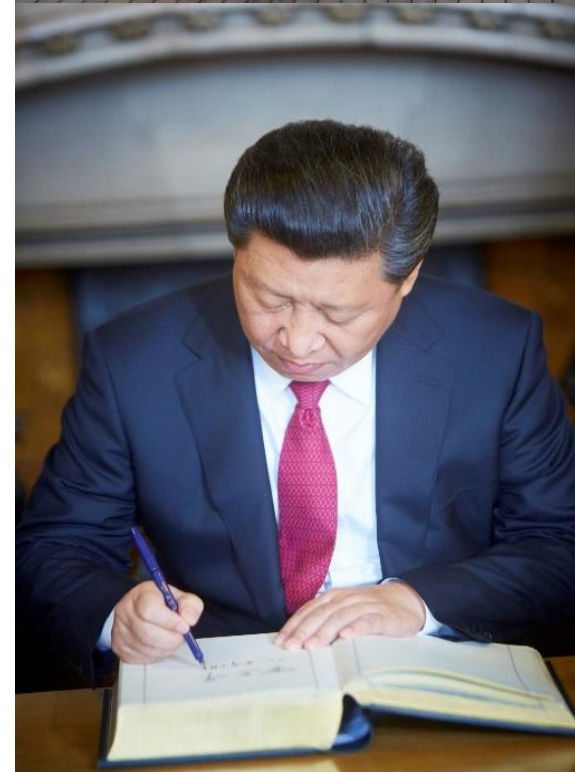
Research has given us hypothetical projects which broadly match to the priorities in our 5 Year Plan.

Next step is to launch mission and agree projects which will form part of it

Manchester China Forum

- Business led initiative aimed at increasing Greater Manchester's commercial connectivity with China
- Position Greater Manchester as a leader in China engagement
- Lord Nat Wei Growing East Report Recommendation
- Launched by George Osbourne in 2013
- Public-Private sector partnership with senior city stakeholder buy-in
- Award winning approach to engaging with China (Hurun Award, 2018)

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Achievements

Direct Connectivity

- Manchester is China's gateway to the North
- 2014 – Cathay Pacific launches flight to Hong Kong
- 2016 – Hainan Airlines launches flight to Beijing
- Plans for further route development – Shanghai and Guangzhou
- MAG/MCF launched Economic Impact Study I & II looking at broader benefits of direct connectivity for GM and NPH region



Education Collaboration

- Strong education collaboration links across China with education institutions and government:
 - Infrastructure Alliance Academy (AMBS)
 - Graphene
 - Joint Genomics Centre (Peking University)
 - The University of Bolton and Shanghai Education Commission





Achievements



Commercial Engagement

- Manchester is one of UK's most active recipients of growing connectivity between China and UK
- Diversification in investment from capital to increase interest in science and innovation
- Chinese investors involved in projects worth >£6bn across the city
 - Airport City
 - Middlewood Locks
 - Northern Gateway



Political Engagement

- Since presidential visit GM continues to receive a number of high level political visits reaffirming senior political appetite to engage with the region
- Last year we hosted over 40 visits including the Hubei Deputy Secretary General and the Vice Mayor of Hefei
- Exploring closer political ties with Tianjin and Haidian district





Greater Manchester and China Looking Forward...

- Role of cities never been more significant – leadership role in driving engagement with international markets and addressing global challenges
- GM's China Strategy moving forward will focus heavily on how connectivity with China can support with delivering GM ambitions
- Create a test bed for innovation and international best practise
 - GM-China collaboration on delivering Local Industrial Strategy ambitions – enhancing research and commercial engagement in **Science and Innovation** across core areas including **Health, Materials and Environmental Priorities**
 - Continue to enhance political and city to city links with China
 - Visitor Economy (Further connectivity and China welcome)
 - Continue to build on global sporting and footballing excellence





Opportunities for Collaboration

Greater Manchester is **leading** in a UK context in a number of areas:

- Advanced Materials
- Health Innovation
- Emerging Green sectors

In the future Greater Manchester **aspires** to lead in:

- Digital
- Emerging Green/Low Carbon sectors



Opportunities for GM – China Collaboration

By working internationally city regions are not only able to increase trade/investment and R&D collaboration but are able to share best practice and technology to work together to address shared future urban challenges

- Smart Cities Implementation including digitalising urban policies and public services, smart urban governance, eGovernment and urban planning
- 5G technology including how to capitalise on the opportunities that become available by accelerating the role out
- Low carbon technology and clean energy innovation including shared best practice, policy and financing models
- Skills – Successful interventions to prepare the workforce for skills/jobs of the future
- Health innovation to address health inequality

