

## **Delegates to Canberra**

**Professor Christopher Saint** 

Dean Research and Innovation University of South Australia

Michelle English

Associate Director Sustainability City of Adelaide



#### Thank You from Manchester

Sadly, representatives from Manchester have not been able to attend this event today. However, a delegation from Manchester visited Adelaide this month where we continued to cement our partnership between the two cities and agreed an exciting letter of intent to collaborate on a range of matters from climate change through to cultural exchanges.

The World Cities programme has given us a unique opportunity to make these connections between the two cities and we are committed to capitalise on this opportunity.

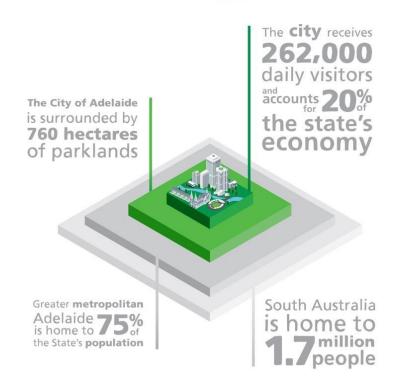
Thank you for the support of World Cities in allowing this partnership to form and develop over the past 12 months. Thank you also to the team at the City of Adelaide, the University of South Australia and University of Adelaide, the Government of South Australia and Renewal SA for contributing to this exciting opportunity.

Mark Duncan
Manchester City Council



### **Adelaide**

- Nearly 1 in 3 houses in South Australia have solar panels
- Our current C&D recycling rate is over 81%
- Our renewable energy production in 2015-16 was 52% of the State's total
- Adelaide is the first Cisco
   Lighthouse City in Australia –
   Gig economies
- We are one of the first states to complete regional adaptation plans for all regions



#### Manchester

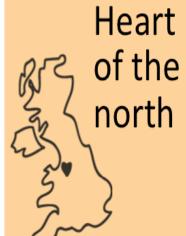
authorities working together

UK's first combined authority

#### **GREATER MANCHESTER**



Economic potential exceeds all other UK city regions





Centre of innovation, education, industry and culture



# Participating organisations

Manchester City Council

Greater Manchester

Manchester Metropolitan University

University of Manchester

CityVerve
Triangulum
Ordnance Survey
Siemens
Cisco









**Manchester** 







# Participating organisations

City of Adelaide
State Government of SA
Renewal SA
Tonsley Innovation Park
University of South Australia
University of Adelaide













Siemens

Cisco



SA Power Networks



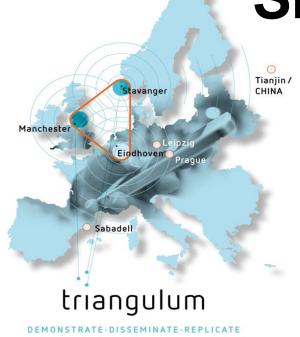


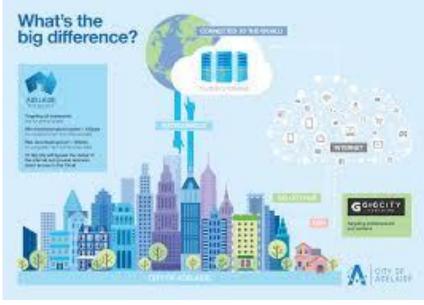
#### **Outcome**

- Letter of Intent
- Agreement to exchange experience and best practice
- Partners comprise local government, universities and business partnerships
- Focus on innovation and sustainable solutions



## **Smart cities**





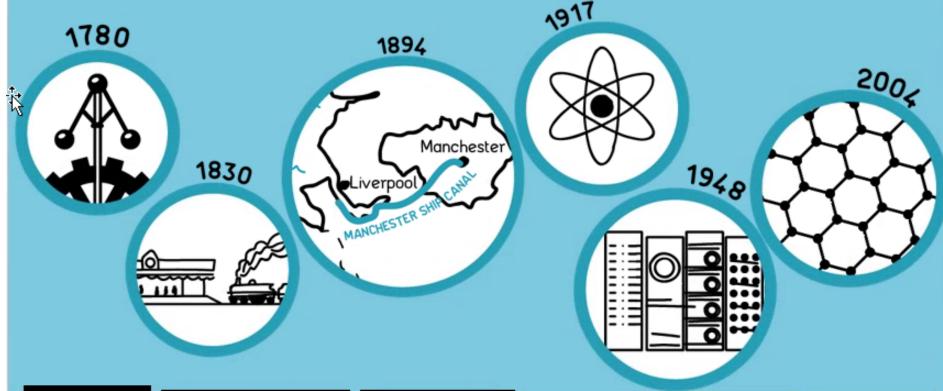








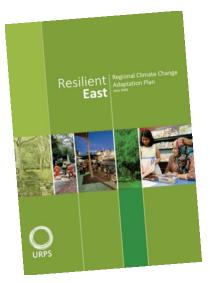
## A city of pioneering innovation



WORLD'S FIRST INDUSTRIAL CITY

WORLD'S FIRST INTER-CITY PASSENGER RAIL SERVICE MANCHESTER SHIP CANAL

FIRST OBSERVED NUCLEAR REACTION WORLD'S FIRST STORED-PROGRAM COMPUTER OF GRAPHENE



### Sustainable cities





#### Energy and Environment Analytics

BMS Simulations have been completed are progressing their work into Business School and Benzie buildings on the Manchester Met estate.

Discussions with Bruntwood about collaboration of building management learns, once their flagship buildings BMS online.

Working with "Asset Mapping" to enable Business School and Sandra Burslum buildings BMS data onto their platform for visulisation. Hoxton cameras are to be installed into Business School and Sandra Burslum buildings as a means of validating data.

Spica have provided training to relevant estates teams for their Deviceboint dashboard.

Working with Cisco LÒRA coverage team to improve range of the network and install antenna on Manchester Met buildings.

CityVerve WP13

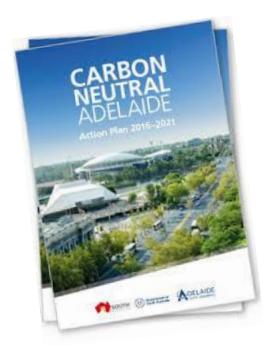
Energy + environment

Next Gen Building Management User Patterns

Dr. Bamidele Adebisi b.adebisi@mmu.ac.uk + Dr. Liangxiu Han I.han@mmu.ac.uk

Manchester Metropolitan University School of Engineering

School of Computing Mathematics and Digital Technology



Knowledge exchange and collaboration:

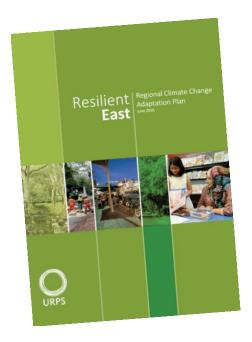
- South Australian Climate Change Strategy
- Carbon Neutral Strategy
- Zero Carbon Manchester
  - Greenhouse gas inventories
  - Energy efficiency, building optimisation and asset management
  - Establishment of collaborative partnerships
  - Renewable energy







Working collaboratively across our respective networks of international cities and regions to leverage knowledge and leadership opportunities in the areas of climate change adaptation and mitigation, smart cities and green infrastructure.





Municipal exchange and collaboration between the City of Manchester and City of Adelaide and the university sector on **3D city modelling and data visualisation**, libraries, cultural strategy, culture and heritage impact surveys and community engagement.



A gallery without walls and 'limitations'. Augmented and virtual reality, when combined with the use of connected sensors around our urban environments, enables us to think about collections storytelling in entirely new ways.

MMU Special Collections: Archive Collection/ Artists' Books/ Book Design/ Children's Book Collection/ Manchester School of Art Collection fine + decorative arts, Arts + Crafts movement, contemporary crafts/ Manchester Society of Architects' Library/ Mary Butcher collection of Baxter prints/North West Film Archive / Poster Collection / Schmoller Collection of Decorated Papers



**Cultural exchange** between the City of Manchester and City of Adelaide linked to City Festivals in 2019.





Collaboration between Manchester Metropolitan University and University of South Australia to share knowledge and experience and test new ideas and initiatives to support **Low and Zero Carbon Campus** initiatives.





#### University collaboration:

- Manchester School of Architecture (Manchester Metropolitan University and University of Manchester) and the University of South Australia and University of Adelaide.
- Building a practical research partnership between the Research Node for Low Carbon Living at the University of South Australia and the University of Manchester on addressing key urban development issues.





NATIONAL RESEARCH & INNOVATION HUB FOR THE BUILT ENVIRONMENT



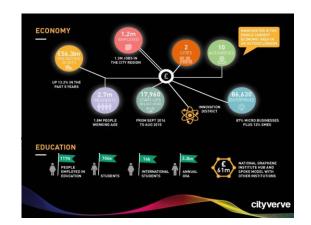




Joint support for development of commercial opportunities

- CityVerve and Triangulum business partners
- City of Adelaide
- University of South Australia
- Tonsley Innovation Park

Exploration of a research partnership between Siemens and University of South Australia.







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