

Sustainable Urban Mobility

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Sustainable Urban Mobility

In

Greater Manchester





Context

- Encourage smarter use of network
- Integration of modes and information
- Traveler centric not mode centric
- For journeys not operations
- Incentives and sanctions







Traditional

- Fixed Infrastructure
- Large amounts of capital
- Expensive to maintain
- Lowest common denominator
- Little integration



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Network expansion

- Linking public transport with retail, leisure and employment opportunities:
- Regional town centres Oldham, Rochdale, Wythenshawe, Chorlton, Didsbury, Droylsden and Ashton
- Employment opportunities MediaCityUK, Manchester Airport
- Leisure and recreational facilities Hardy Farm, Manchester City Stadium (as well as Old Trafford)
- Supporting regeneration plans New East Manchester, MediaCityUK















The Green Bus Family











Artist's impression – A580 junction with Old Clough Lane, Manchester bound (on-highway bus priority)





Electric Vehicle Charging Infrastructure and Cars





Key Opportunities





Which of these products contain recycled content?





Which concrete block has the highest recycled content?

>50%





View from above the bus station





Today

- Mobile devices
- Architecture of data
- Open data
- Context aware
- Real time useful
- Targeted
- Multimodal











Smart Ticketing

Move from Smart Single Mode Single Operator



To Smart Multi Mode

Multi operator





Active Traffic Management Centralised Traffic Control System Passive Sensor Network Data transmitted frequently Passive Sensor **Processed centrally** Network Changes to normal traffic Change to traffic condition conditions detected FLAYS AHEAT Road status through multiple media channels **Situation Managed** Situation managed centrally, data available everywhere



Network Efficiency - Bus Priority



On board AVL feed to centralised Network Management Traffic Control System





Deliver Bus Priority to Traffic Signals





Traveller Information

GMPTE - Trip Planner

Plan your journey









You can sort the table by clicking column name. Itinerary title can can be changed by clicking the title

Back to Journey Planner







Sustainable Urban Mobility

It is not just technology and systems

It is about engineering solutions and interventions

Imagine it like a game of chess

The pieces represent technology, with their properties and moves

The board represents our cities and towns, the game is to achieve a result using the combinations available.







Thank You



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