Manchester M60 North West Quadrant Stakeholder Meeting



- TfN Introduction,
 Peter Molyneux
- Manchester M60
 North West
 Quadrant Study
 Brief, Jeremy Bloom

31st October 2017

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Manchester M60 North West Quadrant Introduction by TfN

31st October 2017





Peter Molyneux Major Roads Director Transport for the North





Key Functions of a Sub-National Transport Body

- Transport Investment Strategy includes a list of the core functions of a STB, all enshrined in the draft constitution:
 - Prepare a pan-regional transport strategy to support economic growth and development in the region
 - Provide advice to the Secretary of State about the development and prioritisation of transport investments in their region
 - Co-ordinate the carrying out of transport functions that are exercisable by its constituent authorities, such as the implementation of smart ticketing initiatives
 - Potentially, to play a role in the investment and oversight of performance on major roads in their region (that are not part of the national network maintained by Highways England)

Pan-Northern Transport Objectives INORTH





Northern Powerhouse Rail



- Provides transformational change in connectivity between the North's economic assets
- Will allow significant growth in labour markets and maximise benefits of HS2
- Builds on existing investment in Northern Hub and planned investment in Trans Pennine Route Upgrade
- Core spine of the Strategic Transport Plan and Investment Programme, but needs to be seen as a whole network





NPR Connecting People and Businesses



Integrated and Smart Travel

- Tranche 1 ITSO on Rail
 - £18.5 million
 - Full Business Case submitted in June 2017
 - The default for all season tickets across the North
 - Progressively to be rolled out from East to West

Tranche 2 – Customer Information

- £6.5 million
- Outline Business Case submitted in June 2017
- Full Business Case submission in January 2018
- Improving pre-journey decisions and choices
- Progressively rolling out starting with pilots in West and South Yorkshire
- Tranche 3 Account-based Ticketing
 - £110 million
 - Outline Business Case submission in October 2017
 - Simplifying payment and providing fair price promise
 - Progressively to be rolled out starting with the 5 key cities















Strategic Development Corridors



- A Connecting the Energy Coasts
- B Central Pennines
- C Southern Pennines
- D West and Wales
- East Coast to Scotland
- B North West to Sheffield City Region
- G Yorkshire to Scotland



Connecting the Energy Coasts

Improving connectivity for people and goods between the nationally significant non-carbon energy and research assets located in Cumbria, Lancashire, North Yorkshire, North East, and Tees Valley.





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Central Pennines

Improving strategic east-west connectivity for some of the North's Important economic centres and assets in North Yorkshire, West Yorkshire, and Hull and Humber through to Greater Manchester, Lancashire and Liverpool City Region.







West and Wales

Improving connectivity, for people and goods, to, from and through the important economic centres and assets of Cheshire, Liverpool City Region and Greater Manchester, with strategic connectivity in to North Wales and the Midlands.



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Strategic Development Corridors: delivery

- Project Boards for each corridor
 - Local Partners / Highways England/Network Rail/DfT
- Joint Technical Assurance Group

 Highways England/Network Rail/DfT/ & some Partners
- Shared Analytical Framework
 - Economic modelling
 - Freight modelling
 - Northern Rail Modelling System
- All three SDC's using Regional Traffic Models

What Next?



Strategic Transport Plan

- Formal public consultation planned for a 13 week period, starting in early January 2018
- Final Strategic Transport Plan to be published in Summer 2018

Strategic Development Corridors

- Stakeholder workshops late November, February & Summer 2018
- Options Assessment Report early 2018
- Strategic Outline Case July 2018

Manchester M60 North West Quadrant Study Update



Jeremy Bloom Network Planning Director Highways England

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Stakeholder Briefing Content

- Background to the Study
- Study Objectives
- Project Process
- Initial Study Findings
- Current Phase of Work
- Emerging Findings
- Next Steps



Background to the Study

- DfT commissioned six Strategic Studies as part of its Road **Investment Strategy**
- The Manchester M60 North West Quadrant (NWQ) Study focused on M60 Junction 8 to Junction 18
- Initial study completed late 2016
- Follow on work now complete



Study Area



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Evidence

- High vehicle usage in relation to capacity, exacerbated by high usage from freight vehicles
- Majority of the M60 (J8 to 18) within the worst 10% of national motorway links in terms of journey time reliability
- Low average **speeds** and high total vehicle hours delay
- Poor safety: high rates of collisions per 100 miles and casualties per billion vehicle miles
- Minimal network resilience
- Within a designated Air Quality Management Area
- Limited inter-city and intra-city business-to-business connectivity restricting the frequency and efficiency of business interactions
- Economic growth is limited by current transport barriers, as road
 Congestion restricts connectivity
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Case for Change

If the constraints on the network are not addressed:

- Growth across the region will be significantly constrained
- The aspirations of the Northern Powerhouse will be significantly harder to achieve
- Existing congestion will get even worse and extend onto other parts of the highway network
- Journey times will be more unreliable
- Air quality and noise will worsen
- Performance targets for the motorway network will not be met



Study Objectives

Growth	Facilitate and support the delivery of the Northern Powerhouse by ensuring the NWQ enables transformational growth in the employment, housing and the economic output of the North
Network Performance	Improve journey times, reliability, safety and resilience across the study area
Connectivity	Improve connectivity for all users so they are able to access education, employment, business and leisure opportunities
Environment	Minimise adverse impacts on the environment and maximise opportunities for a net improvement to the environment particularly to air quality and noise across the study area
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The Highways England Project Control Framework (PCF) and DfT Strategic Study Processes



Initial Study Findings – Stage 0 Process





Initial Study Findings – Northern Corridor



Initial Study Findings – Outer Orbital Corridor



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Initial Study Findings – PT Max



Initial Study Findings – In Corridor



Initial Study Findings – Stage 0 Process

- Each of the four packages was assessed with regard to value for money considering:
 - § Traditional economic benefits such as journey time savings: and
 - § Wider economic benefits such as improved economic activity.
- The PT Max Package did not perform sufficiently well on its own to be considered further
- However public transport elements were included in the other three packages



Current Phase of Work – Scope

- Investigate contribution of individual components within Outer Orbital, Northern Corridor and In Corridor Packages
- Seek to improve value for money whilst still meeting overall objectives
- Investigate alternative options for Outer Orbital corridor
- Liaise with local partners (in particular TfGM) to reflect local growth aspirations



Current Phase of Work

Primary Optimisation	Working with Highways England, TfN and TfGM
Individual Component Testing	VfM and Study Objectives
Optimised Packages Agreed	Approved by Project Board
Update Package Costs	Reflect changes and refinements
Develop Revised Model Forecasts	Using latest DfT forecasts
Appraisal of Optimised Packages	Package level following DfT guidance



Current Phase of Work – Option Assessment

The individual components and package level assessment was undertaken against:

- Network Performance: impact on journey times and speeds for key strategic movements; and impact on flows on the M60 using the Greater Manchester models
- Growth and Connectivity: qualitative assessment against the objectives considering residential and employment (existing and future)
- Environment: assessment considering air quality, noise, cultural heritage, ecology and nature conservation, and water resources
- Value for money



Optimised Package Level Assessment



cost data. Includes allowance for risk and future inflation.

Optimisation Package Level Outcome



cost data. Includes allowance for risk and future inflation.

Optimised Northern Corridor Package



Optimised In Corridor Package



Optimised Package Benefits

Both packages offer:

- -quicker journeys are experienced by users on long distance strategic movements; as well as for local movements
- additional **resilience** for east-west movements by separating longer distance traffic from more local traffic
- -journey time reliability improvements
- improved **connectivity** for existing and future businesses and residents
- wider economic benefits derived from improved productivity experienced across Greater Manchester and the North TRANSPORT FOR THE Department (

Illustrative Cost and Benefits



Illustrative purposes only – not to scale



Next Steps

- DfT in consultation with Highways England and TfN to consider which of the emerging optimised packages to take forward to the next stage as part of PCF Stage 1
- PCF Stage 1 will take in the order of 18 months
- PCF Stage 1 will consider the individual element options along with affordability, deliverability and delivery profile of the elements within the recommended package
- Feedback from stakeholder to inform PCF Stage 1 work
- Work with partners and stakeholders (in particular local partners such as TfGM) through PCF Stage 1



Summary

- Stage 3 report published in late 2016 identified four packages. The report concluded the PT Max Package did not perform sufficiently well on its own to be considered further
- Follow on work included investigation of the contribution of individual components within packages. This enhanced value for money whilst still meeting overall objectives
- Optimised In Corridor and Northern Corridor identified as emerging packages
- DfT in consultation with Highways England/TfN to consider which of the emerging optimised packages to take forward to the next stage as part of PCF Stage 1



Thank You

Any questions?

DfT, TfN and HE Panel