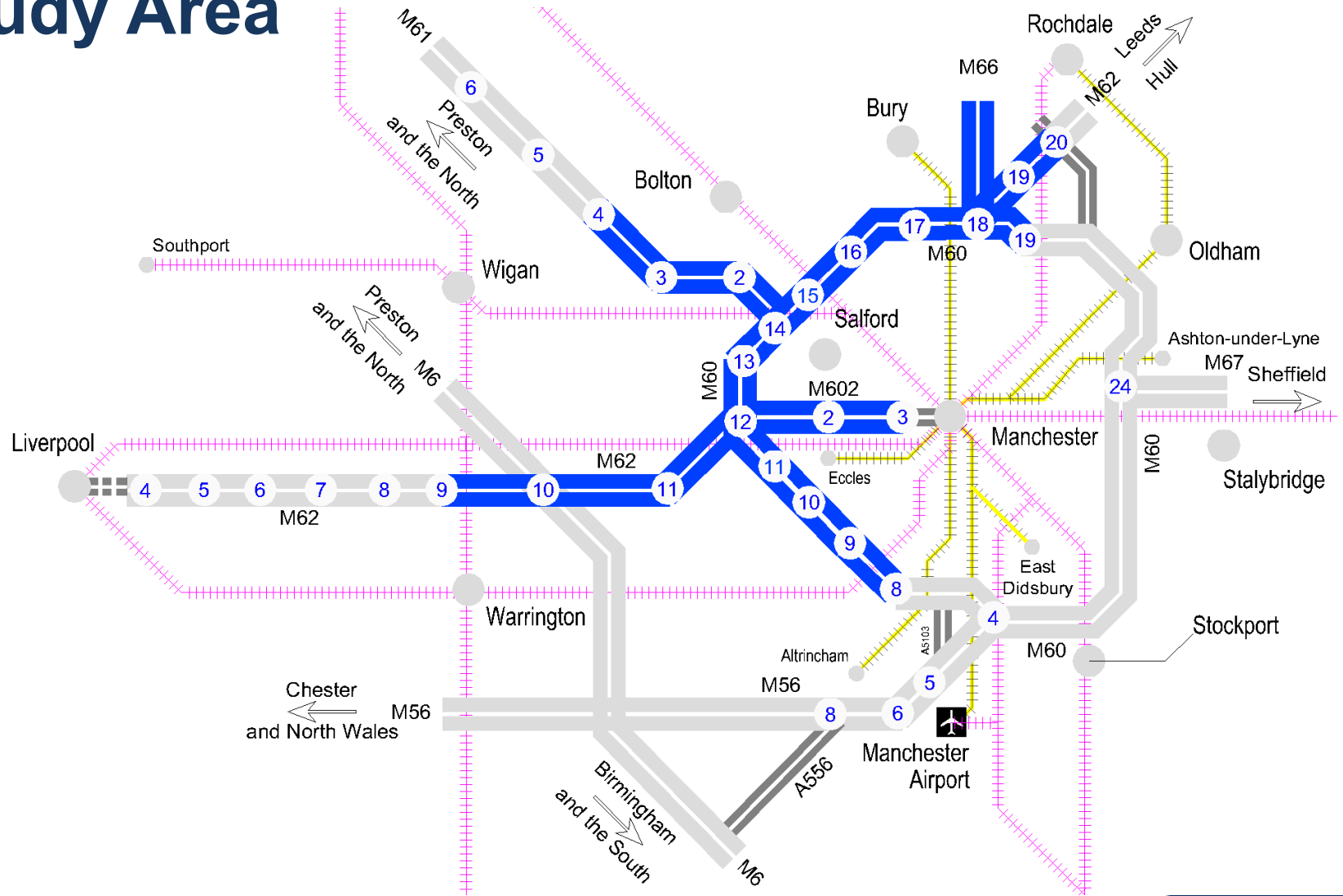


# North West Quadrant Study

Scheme Update and Intervention  
Packages

29<sup>th</sup> June 2016

# Study Area



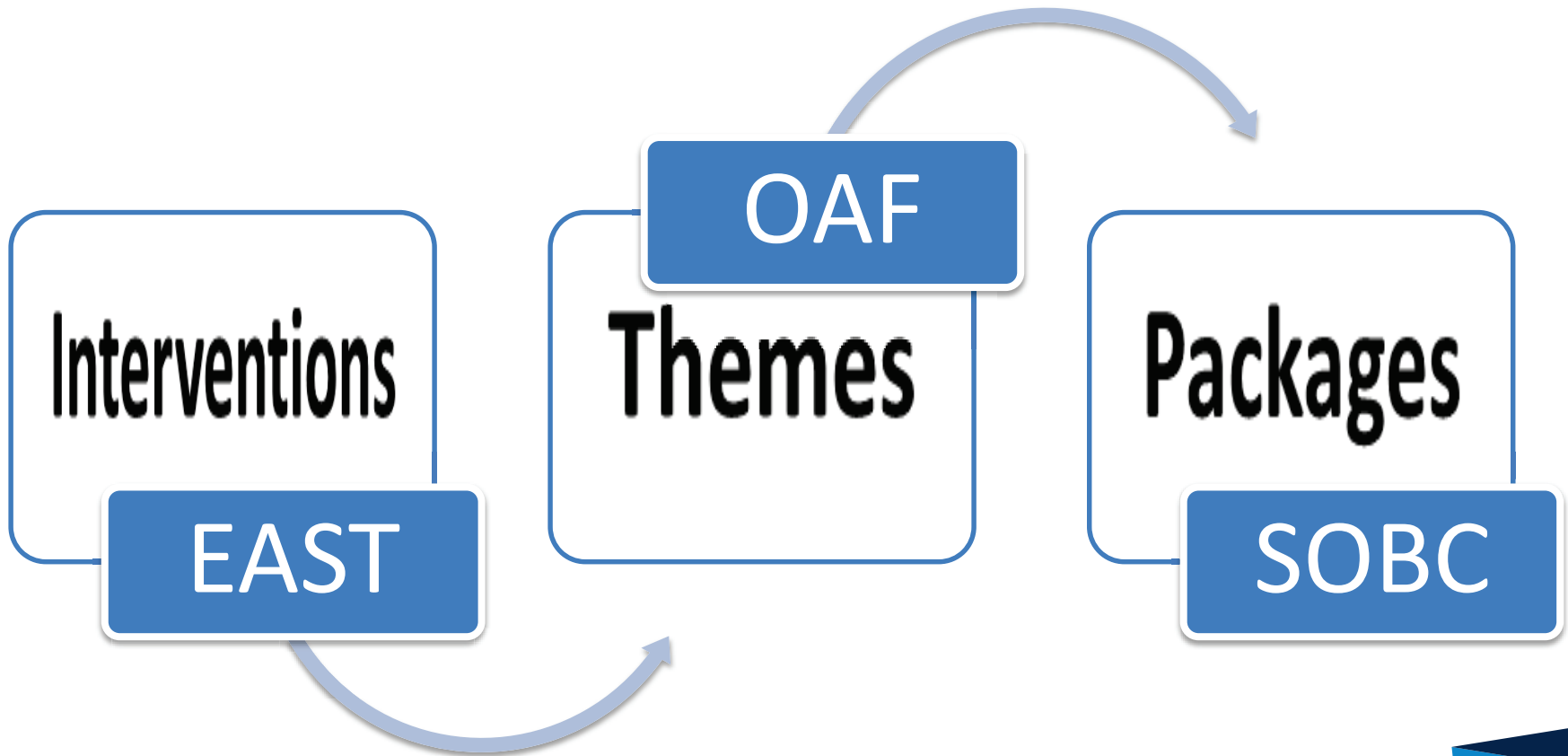
# Objectives

Objective	Category
To facilitate and support the delivery of the Northern Powerhouse by ensuring the Manchester M60 North-West quadrant enables transformational growth in employment, housing and the economic output of the North.	Growth
To improve journey times, reliability, safety and resilience across the study area.	Network Performance
To improve connectivity for all users so they are able to access education, employment, business and leisure opportunities.	Connectivity
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.	Environment

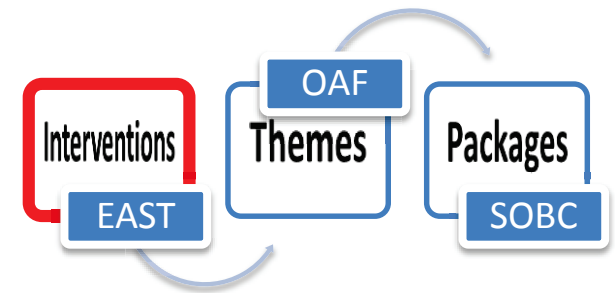
# Study Process to date

- List of interventions generated
- Initial sift of interventions
- EAST on interventions
- Theme Creation (spatial – orbital and sectoral) placed interventions into themes
- OAF Assessment on themes
- Short listed packages developed for further assessment

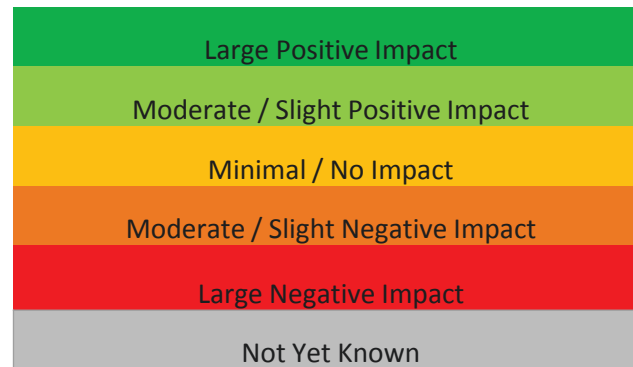
# Process



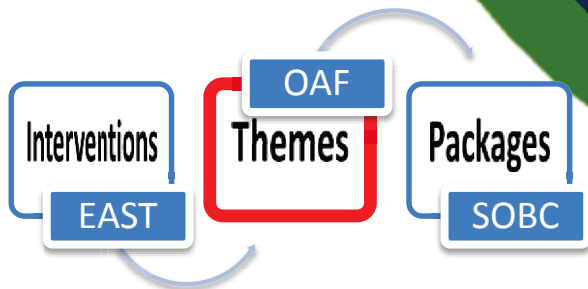
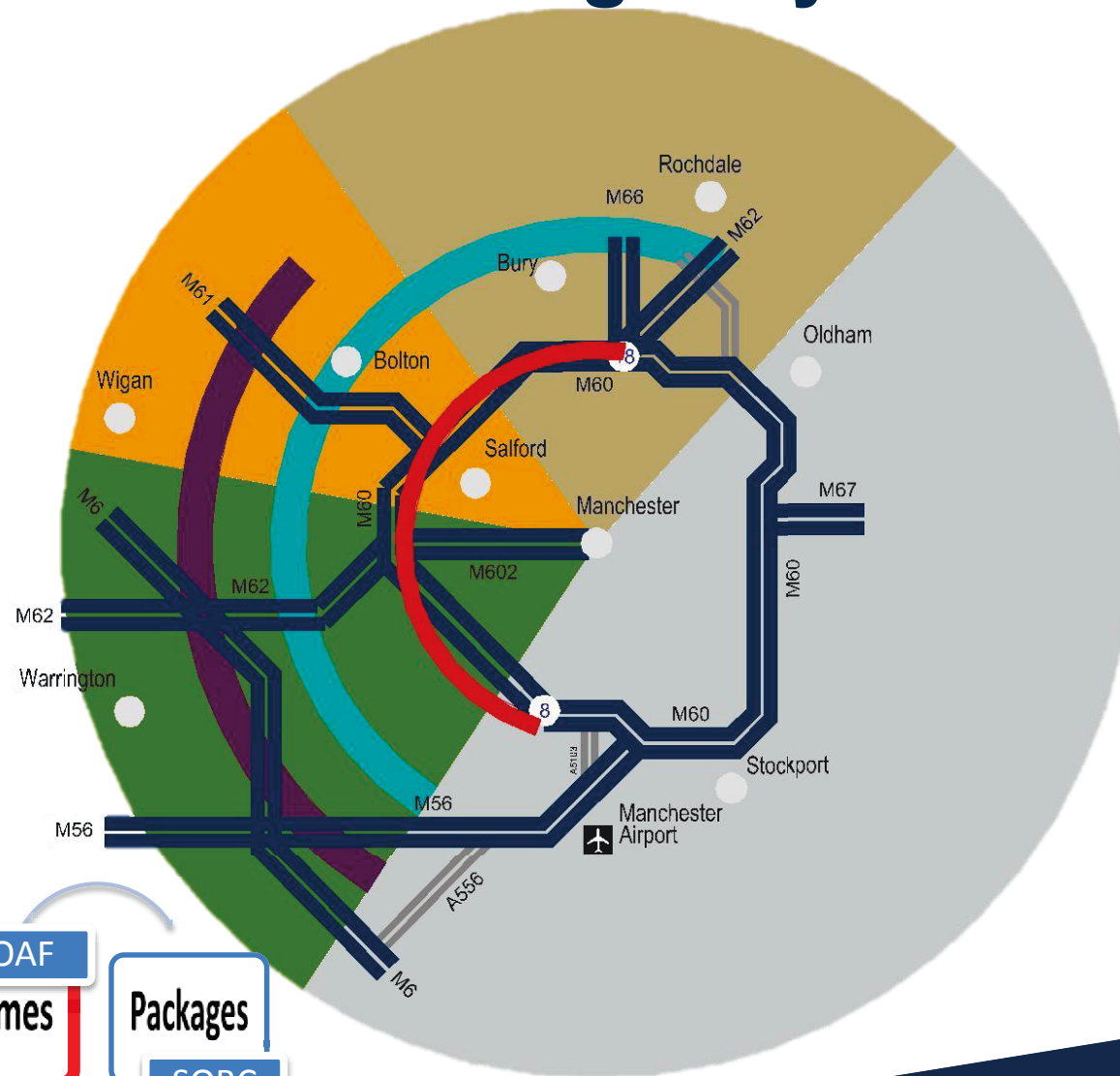
# EAST Sift



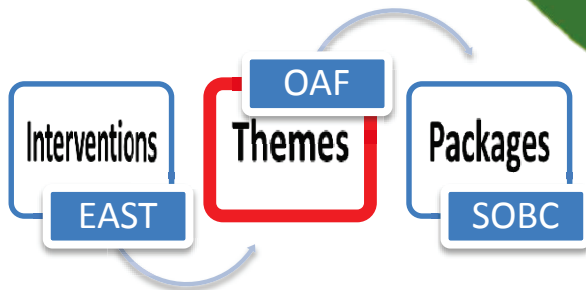
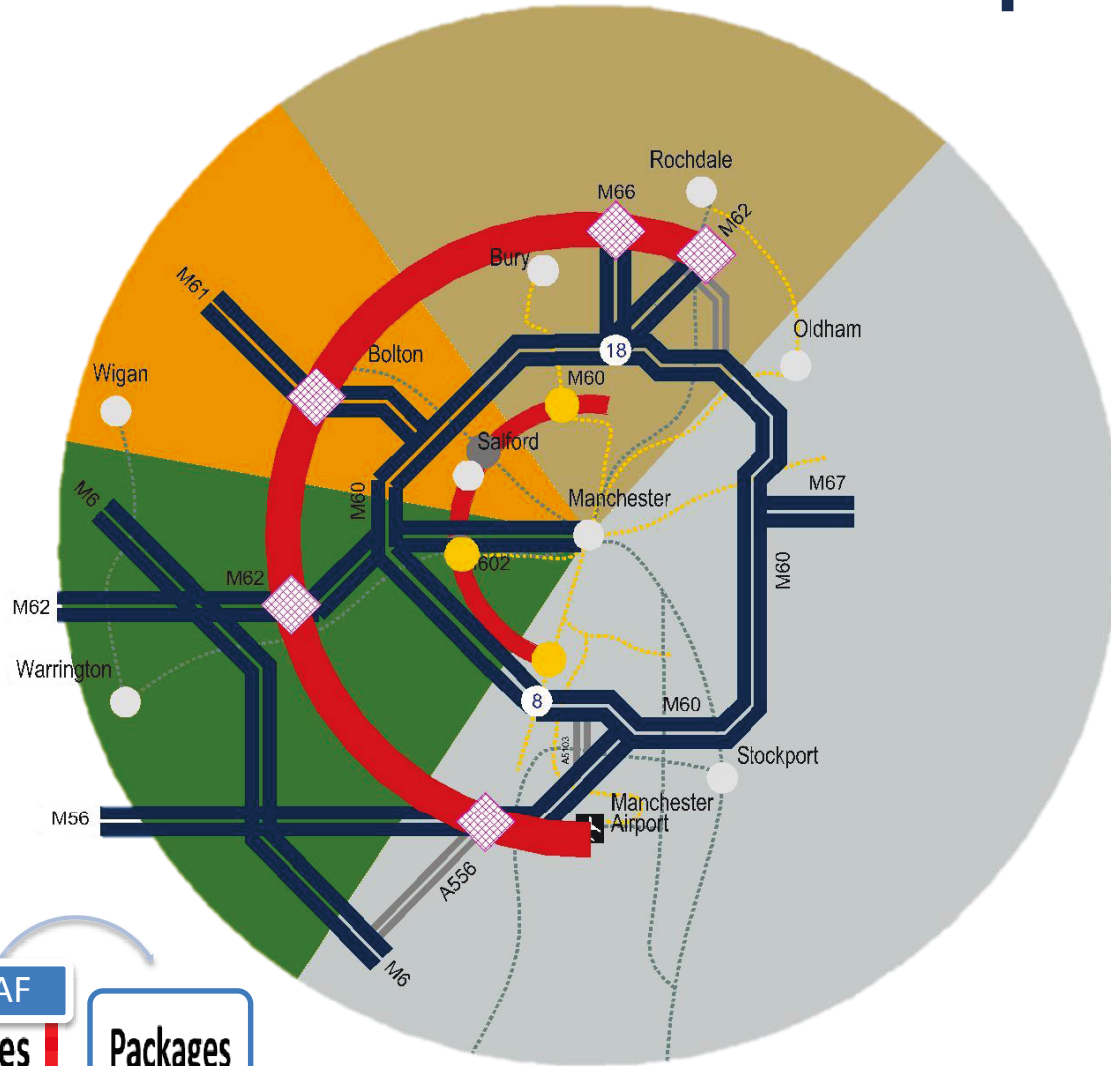
- Completed against Strategic and Economic Cases
- Assessed against five point scale



# Theme Creation - Highways



# Theme Creation - Public Transport

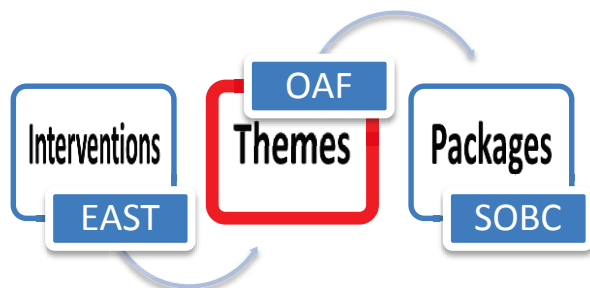




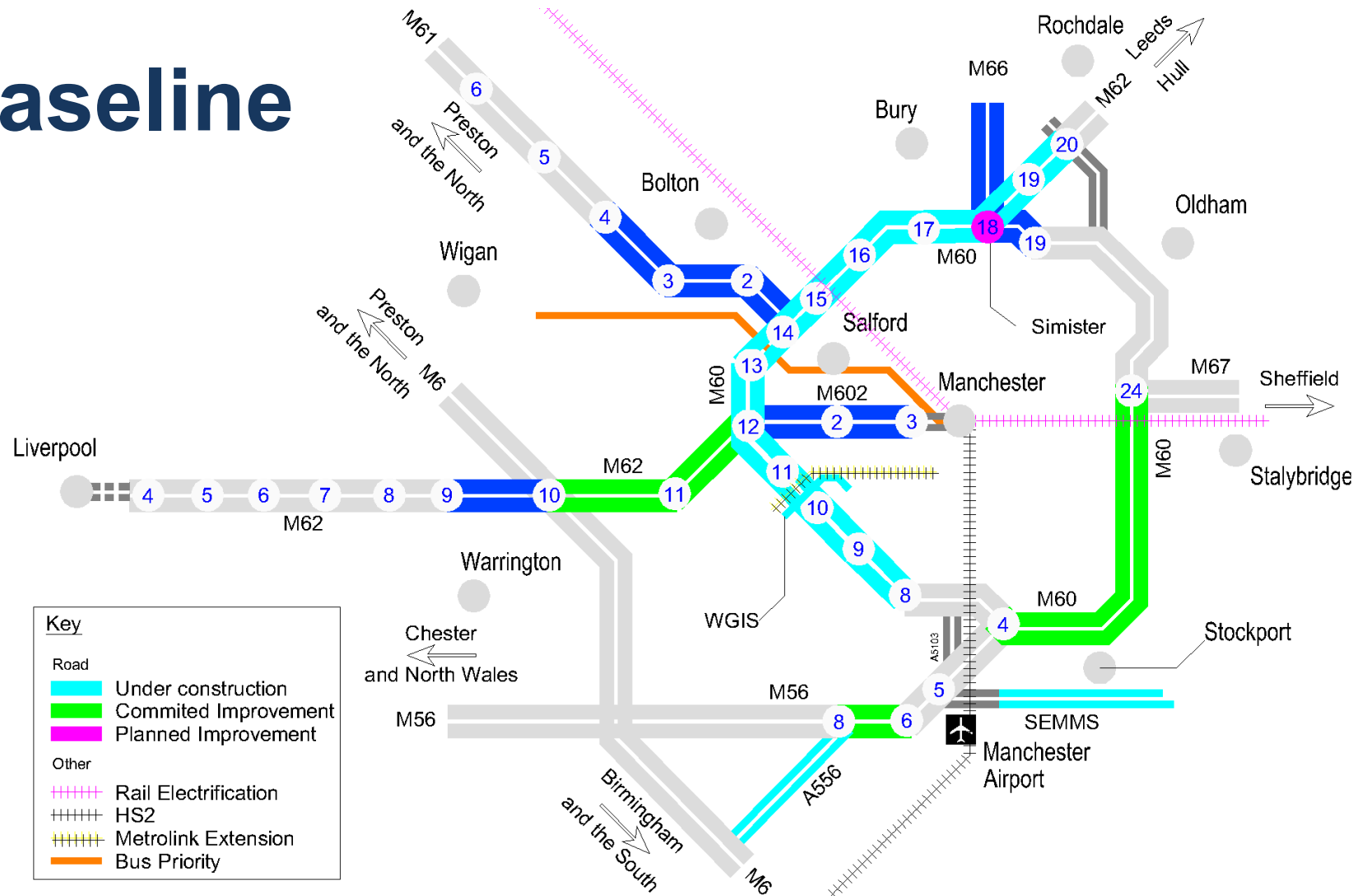
# Option Assessment Framework (OAF)

- DfT tool used for assessment
- Used on other Strategic Studies
- Qualitatively assessed themes under OAF
- Option Assessment Framework (OAF).
  - Outlined in Transport Appraisal process TAG unit
  - Consistent with business case principles (best practice five case model)
  - Adds depth of analysis and provides increased level of assurance
  - Seven point scoring scale

Large Beneficial
Moderate Beneficial
Slight Beneficial
Neutral
Slight Adverse
Moderate Adverse
Large Adverse
Not Assessed/Uncertain



# Baseline



# Packaging

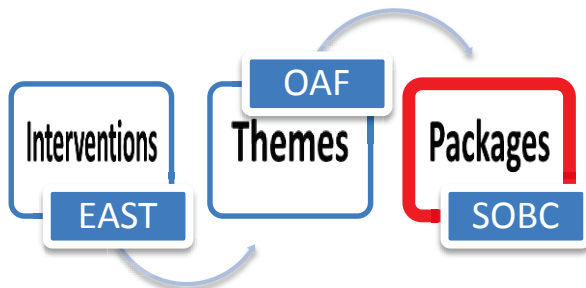
- Themes that performed well under OAF assessment have been combined into four packages
- Three Highway led packages developed with multi modal elements
- One public transport only package developed

Northern  
Corridor  
Package

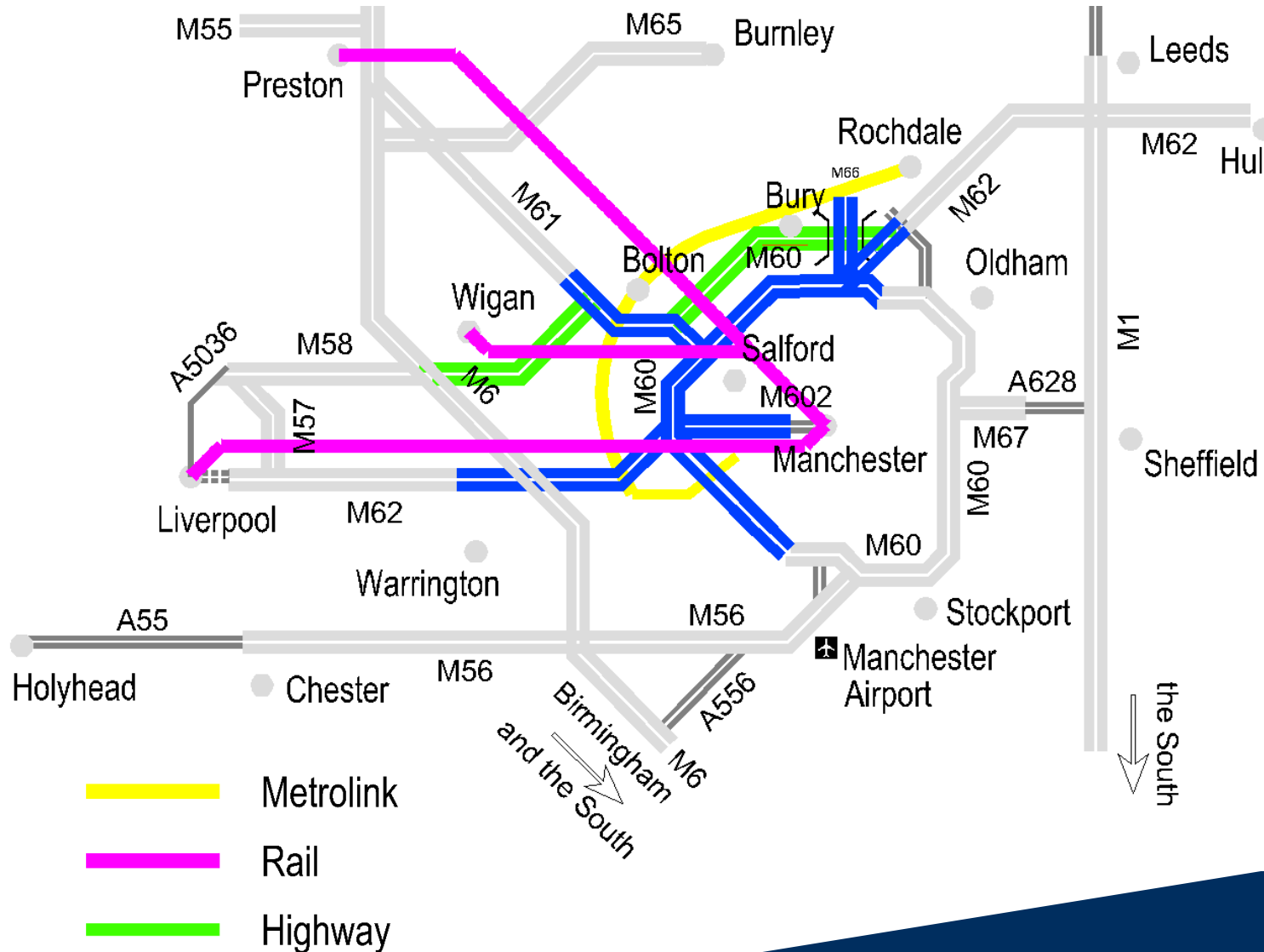
Orbital  
Corridor  
Package

In-Corridor  
Enhancements  
Package

Public Transport  
Max  
Package



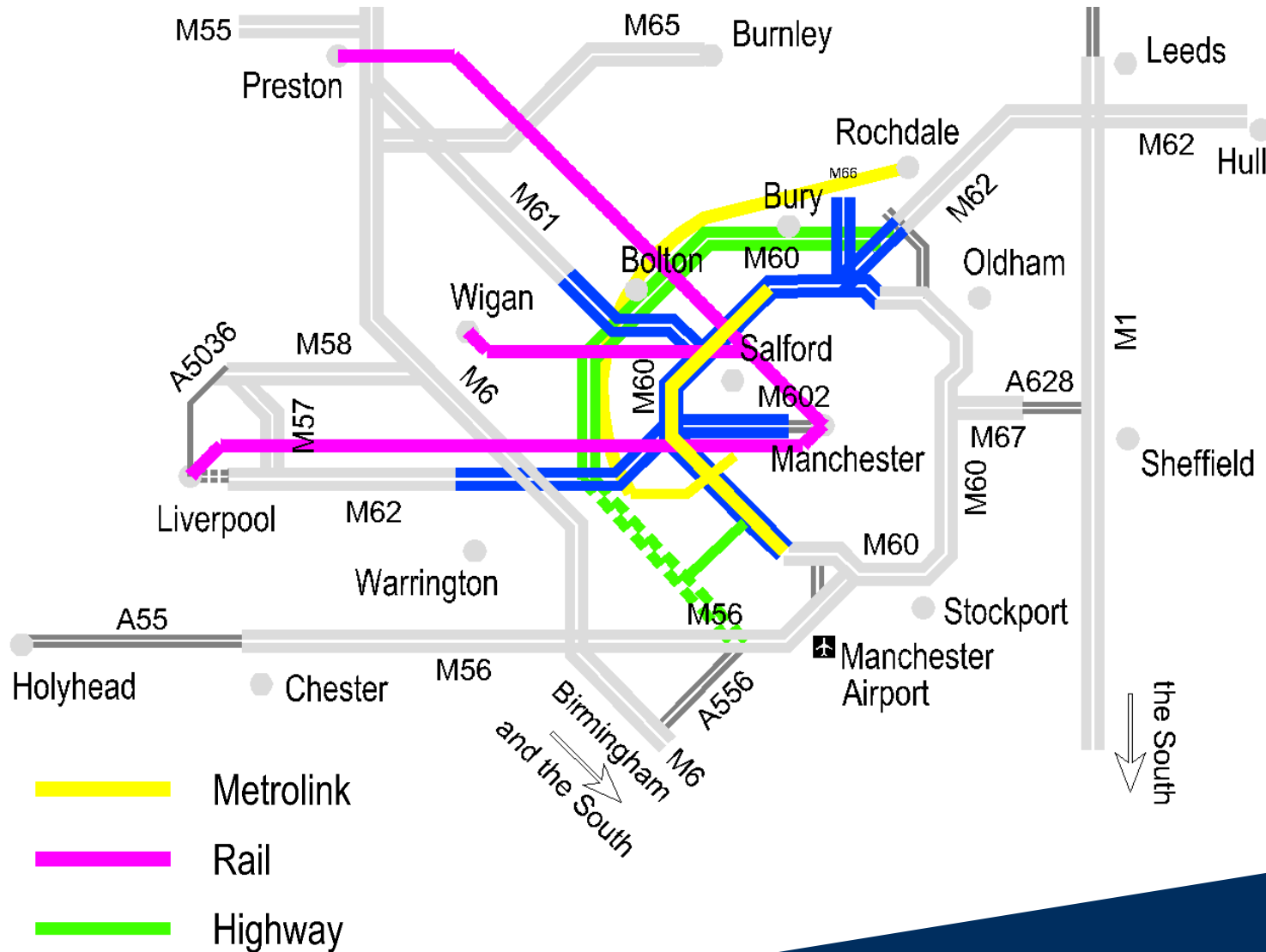
# Northern Corridor Package



# Northern Corridor Package

Short Term	By 2035
4.1 - M56 /M6 to M61 Link	2.2 - Elevated / tunnelled additional capacity M61 to M62 east (Note: M61 to M62 east of Simister Island section only)
W1 - West sector highway improvements (WGIS link to M62, jnc 12, 13 and 14 remodelling)	W-PT (part) - Metrolink extension Trafford & Eccles to new park and ride site at Eccles adjacent to M62
W3 - Upgrade A580 expressway between the M6 and Salford to expressway standards	W, NW, N-PT (part) - Rail enhancement on Chat Moss, Bolton and Atherton in terms of frequency and capacity
W, NW, N-PT (part) - Park and Ride sites (highway bus / rail / Metrolink intersections) inc. cycle access and parking	PTMax (part) - Orbital Metrolink – (Bolton - Bury / Bolton - Worsley - Salford / Bury – Rochdale)
W, NW, N-PT (part) - Cross city bus enhancements and connectivity	

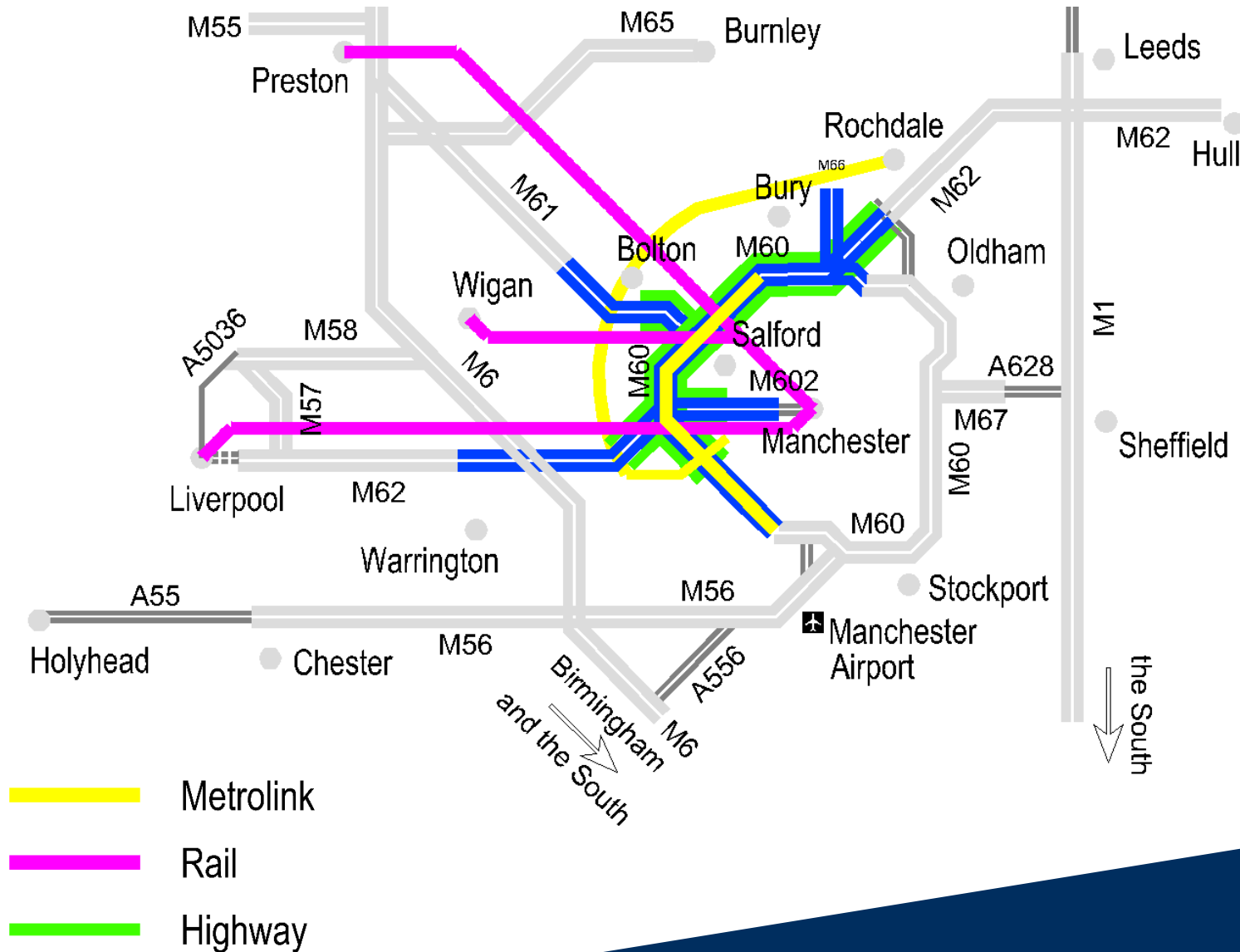
# Orbital Corridor



# Orbital Corridor

Short Term	By 2035
W1 - West sector highway improvements (WGIS link to M62, jnc 12, 13 plus 14 remodelling)	W, NW, N-PT (part) - Rail enhancement on Chat Moss, Bolton and Atherton in terms of frequency and capacity
W, NW, N-PT (part) - Cross city bus enhancements and connectivity	W2 - Connect Carrington Spur (M60 J8) to M62 between Junction 11 & 12
W, NW, N-PT (part) - Park and Ride sites (highway bus / rail / Metrolink intersections) including cycle access and parking	3.1, 3.2 - M62 west of Eccles to M61 to M66 to M62 east of Simister Island
	3.3 - Link M62 west of Eccles to M56 Junction 7/8
	3.3 (part) - Once complete reassign capacity on existing M60 within the study area to be a segregated, public transport corridor
	W-PT (part) - Metrolink extension Trafford & Eccles to new park and ride site at Eccles adjacent to M62
	PTMax (part) - Orbital Metrolink – (Bolton - Bury / Bolton - Worsley - Salford / Bury – Rochdale)

# In Corridor Enhancements

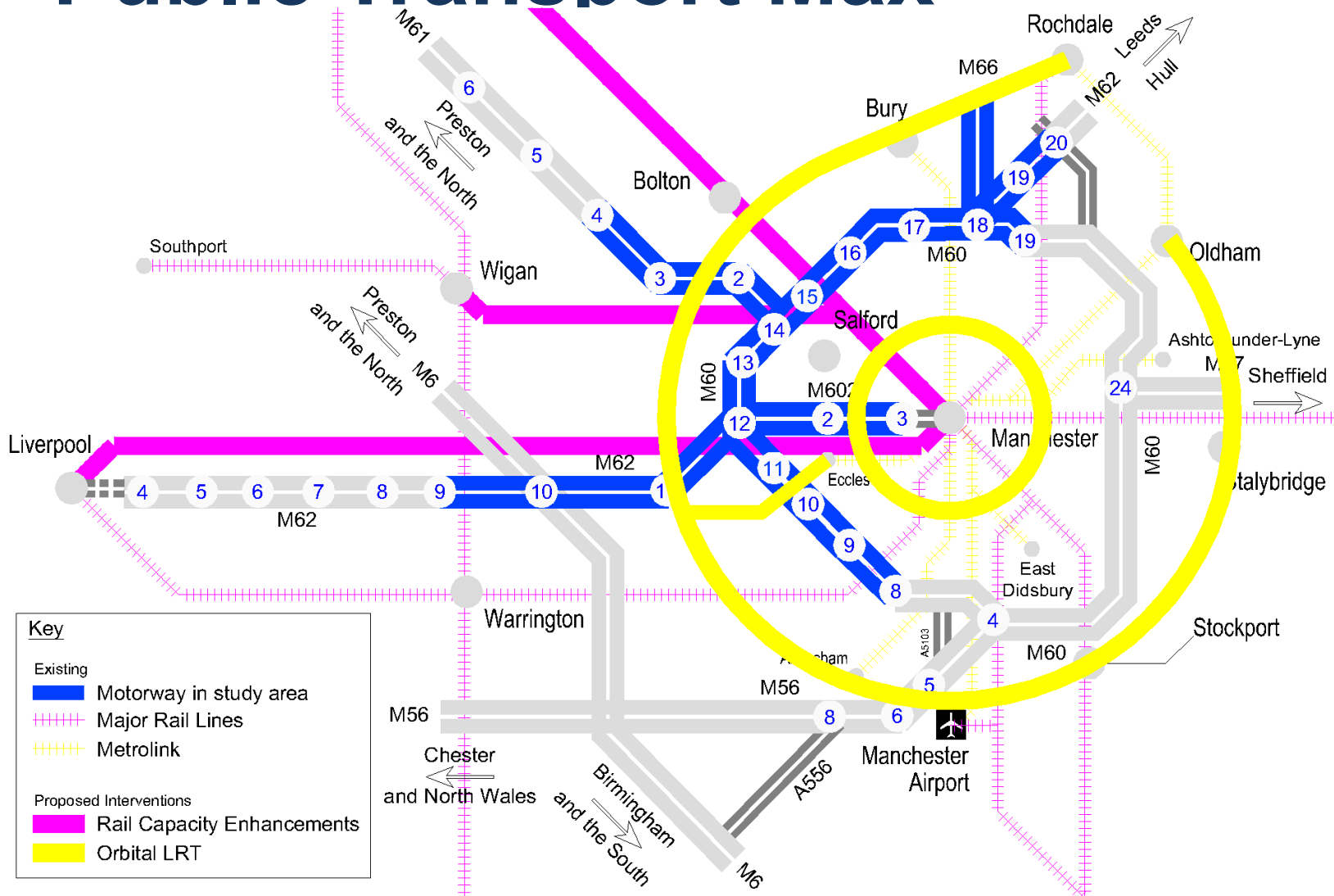




# In Corridor Enhancements

Short Term	By 2035
1.1 - Construction of collector distributors between M60 J9-10, J14-15, J17-18 and junction improvements to M60 J13, J14, J17 and J18	W PT (part) - Metrolink extension Trafford & Eccles to new park and ride sites at Eccles adjacent to the M62
W1 (part) - West sector highway improvements (WGIS link to M62 between J11 & J12)	W, NW, N-PT (part) - Park and Ride sites (highway bus / rail / Metrolink intersections) including cycle access and parking
W, NW, N-PT (part) - Cross city bus enhancements and connectivity	W, NW, N-PT (part) - Rail enhancement on Chat Moss, Bolton and Atherton in terms of frequency and capacity.
W3 - Upgrade A580 expressway between the M6 and Salford to expressway standards	2.2 - Elevated / tunnelled additional capacity between M62 west to M61 to M62 east
W4 - Upgrade A57 Regents Road to expressway standards between M602 and the Mancunian Way	3.3 (part) - Once 2.2 complete reassign capacity on existing M60 within the study area to be a segregated, public transport corridor
W, NW, N-PT (part) - Park and Ride sites (highway bus / rail / Metrolink intersections) including cycle access and parking	PTMax (part) - Orbital Metrolink – (Bolton - Bury / Bolton - Worsley - Salford / Bury – Rochdale)

# Public Transport Max



# Public Transport Max

Short Term	By 2035
W, NW, N-PT (part)  Park and Ride sites for rail and Metrolink	W, NW, N-PT (part)  TfGM Overground (high capacity / frequent trains from Bolton and Chat Moss)
PTMax (part)  More parking capacity at selected stations	PTMax (part)  Lengthening of platforms for longer trains
PTMax (part)  Airport as a transfer hub	W PT (part)  Extend Metrolink to Eccles beyond M60 and to Irlam (/ Warrington)
W, NW, N-PT (part)  Cross city bus movements.	PTMax (part)  Orbital LRT
	W PT (part)  Extend Trafford Metrolink from Eccles via Port Salford inc P&R

# What next ?

- Report summarising the better performing packages to be published in Autumn 2016.

# QUESTIONS