

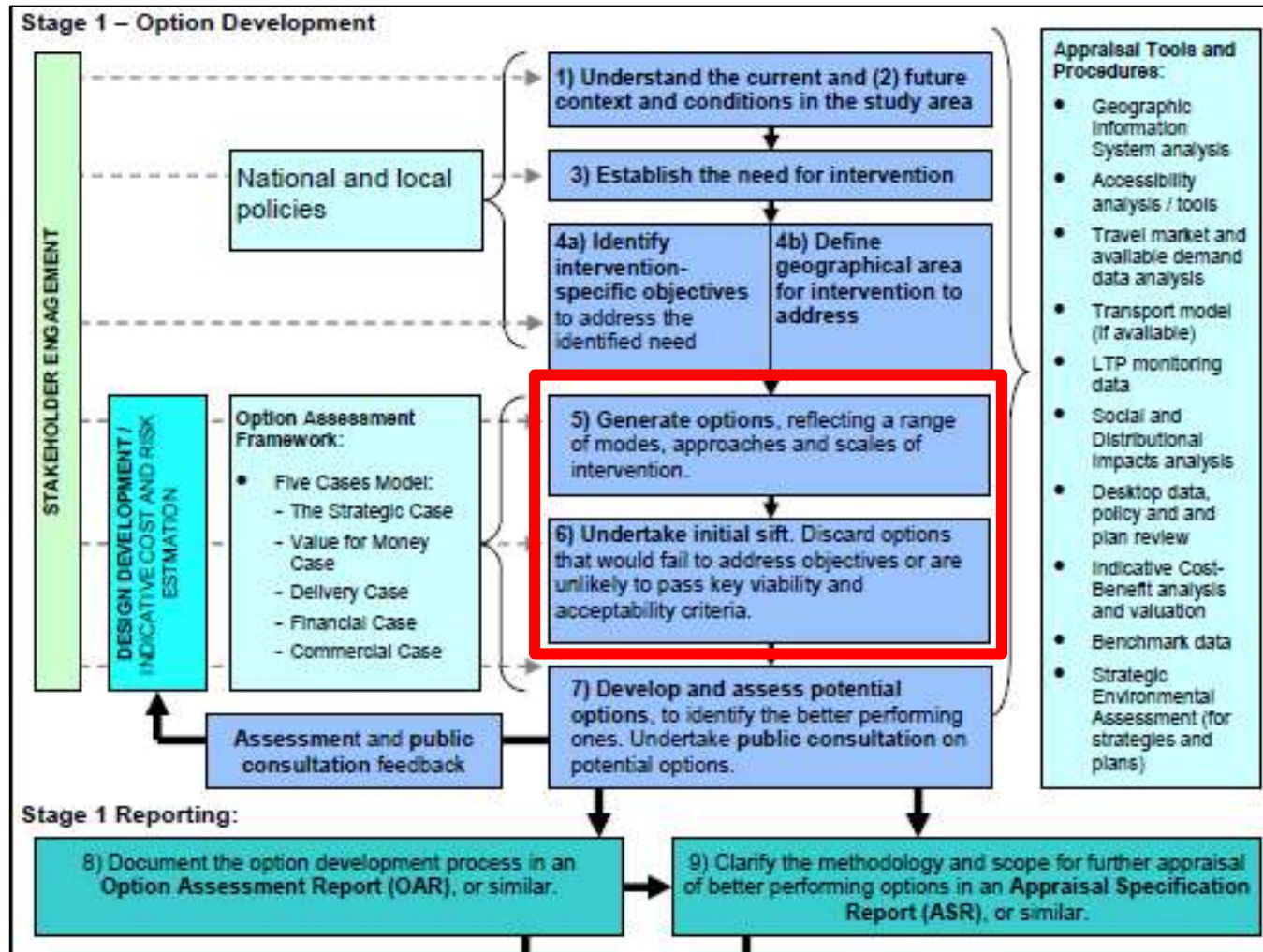
Manchester North West Strategic Study

Proposed Methodology for
Grouping Interventions

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

Transport Analysis Guidance (TAG) Stage 1 – Option Development



Stage 1 – Key elements

- No additional traffic modelling for TAG Stage 1
- Use of existing analysis to assess interventions
- High level analysis supporting EAST and OAF

Overview of EAST & OAF

- EAST – Early Assessment & Sifting Tool
 - Red / Amber / Green assessment
 - OAF – Options Assessment Framework
 - Qualitative evidence
-
- DfT tools used for assessment
 - Used on other Strategic Studies
-
- Study team's next task

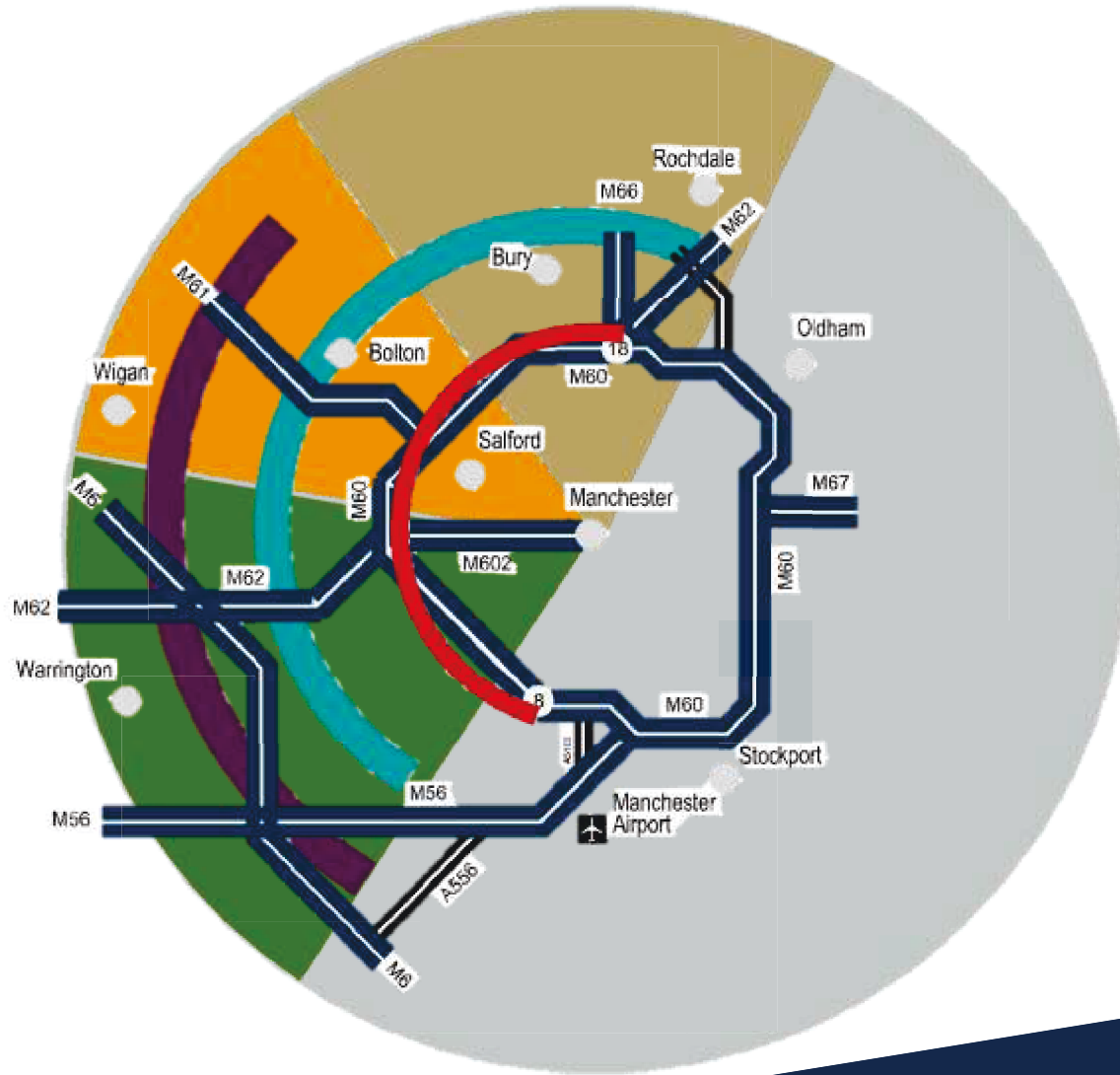
Study Area



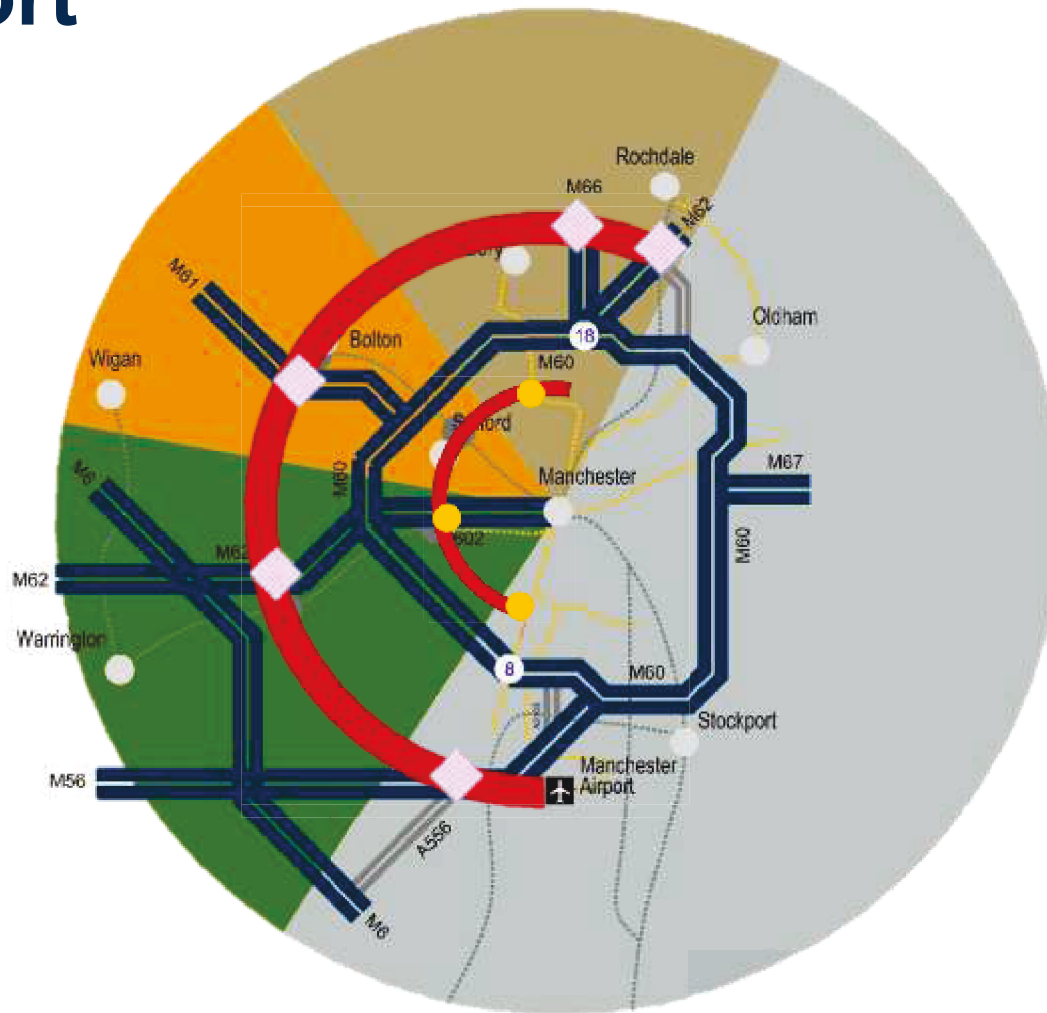
Option

- Interventions generated in a Study team workshop 14th March 2016
- Further suggestions following internal challenge
- Set of individual interventions
 - Highway
 - Public Transport
 - Policy
 - Complementary

Option Development Themes - Highways



Option Development Themes - Public Transport



In Corridor Improvements Theme

Theme 1.1: In Corridor Minor Improvements

- M60 Online Collector/Distributor Schemes for J9-10, J14-15 and J17-18
- Junction Remodelling at J12 and J13 to Improve Key Movements
- Further Improvements at J17 and 18 to Improve Key Movements

Theme 1.2: In Corridor Minor Improvements and Management

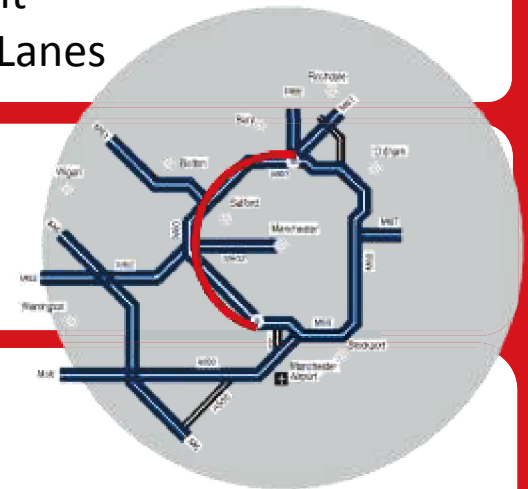
- Dedicated Lanes for Through Traffic by Reassigning Existing Lanes

Theme 1.3: In Corridor Improvements

- Additional Lanes on M60 (including online widening between J8-18)

Theme 1.4: In Corridor Improvements and Management

- New Dedicated Additional Lanes for Through Traffic
- HOV/HOT Lanes Only in Conjunction with Increased Online Capacity
- HGV Only Lanes



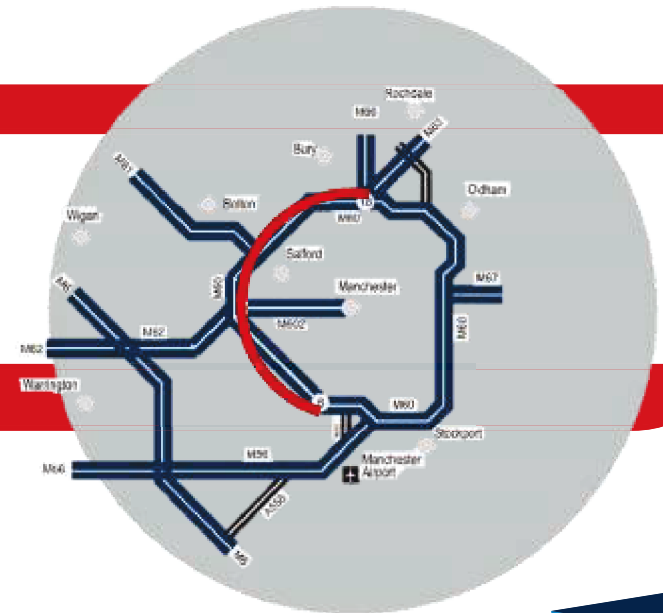
Major in Corridor Improvements Theme

Theme 2.1: In Corridor Major Improvements

- Elevated/Tunnelled Additional Capacity from M62 Eccles to Simister Island

Theme 2.2: In Corridor Major Improvements

- Elevated/Tunnelled Additional Capacity from M62 to M61 to M62



Outer Orbital Theme

Theme 3.1: Outer Orbital Improvements

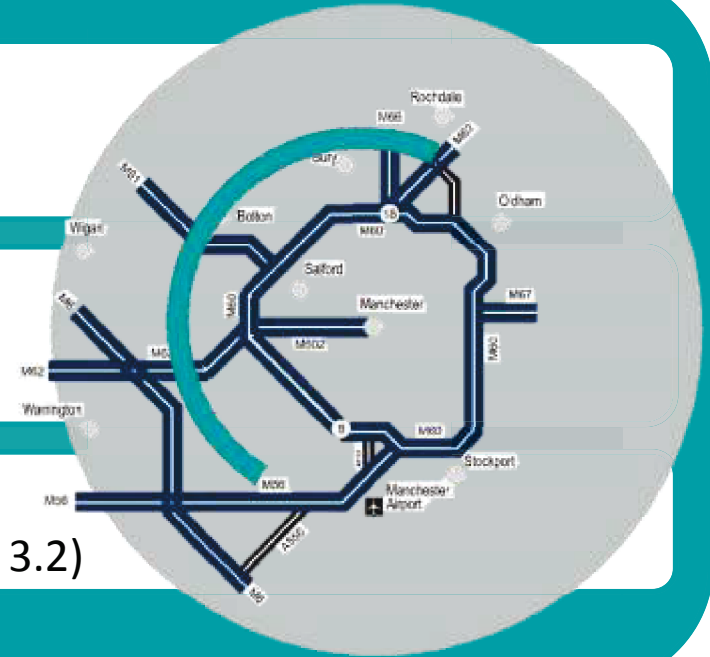
- New Orbital Link from M61 to M62 East

Theme 3.2: Outer Orbital Improvements

- New Orbital Link M61 to M62 West (requires 3.1)

Theme 3.3: Outer Orbital Improvements

- New Orbital Link M62 West to M56 (requires 3.1 and 3.2)



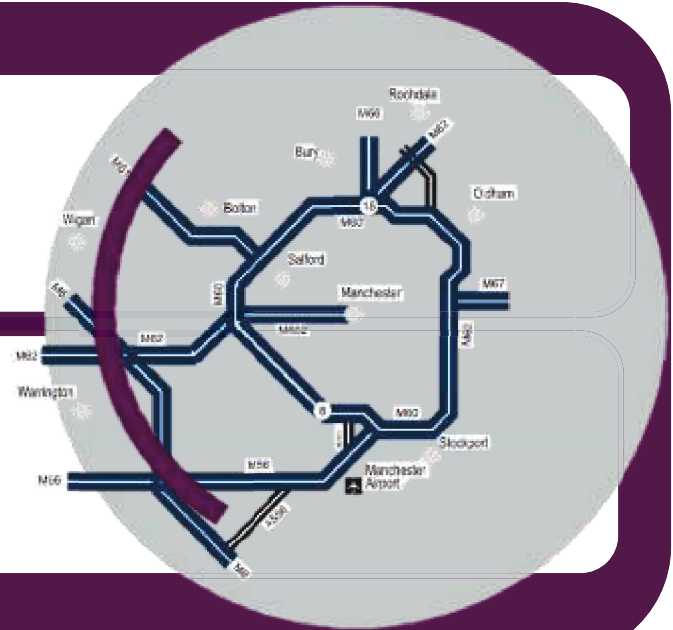
Extended Outer Orbital Theme

Theme 4.1: Extended Outer Corridor Improvements

- M6 – M61 Link (Route 225)

Theme 4.2: Extended Outer Corridor Improvements

- New Link from M56 to M61 (Incorporating M56 - M62)



West Sector Theme (1)

W1:

- Western Gateway Improvement Scheme to M62 link

W3:

- Network upgrade to the A580 between M6 and Manchester to Expressway Standard

W2:

- Connect Carrington Spur to the M62 West

W4:

- Network upgrade to the A57 between M602 and A57(M) to Expressway Standard



West Sector Theme (2)

W-PT:

- In Sector Public Transport Interventions including:
 - Park and Ride for rail and Metrolink
 - Trafford Park direct public transport services
 - Lengthening of station platforms
 - More parking capacity at stations
 - Extend Metrolink to Eccles beyond M60, to Irlam/Warrington, to Port Salford
 - Canal taxis
 - Cross city bus movements
 - Combined cycle and Park and Ride facilities
 - Cross subsidies



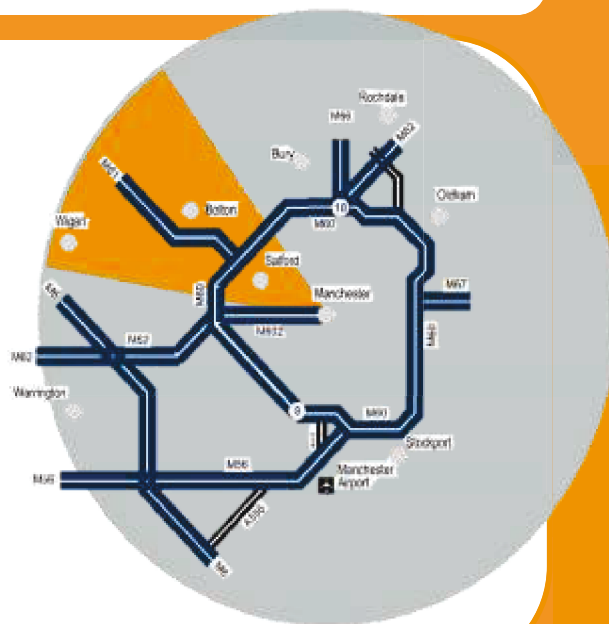
North West Sector Theme

NW1:

- Continue M61 as Radial Across M60 and Closer to Manchester City Centre

NW-PT:

- In Sector Public Transport Interventions including:
 - High capacity/frequency trains from Bolton and Chat Moss
 - Park & Ride for rail
 - Lengthening of station platforms
 - More parking capacity at stations
 - Cross city bus movements
 - Combined cycle and Park and Ride facilities
 - Cross subsidies



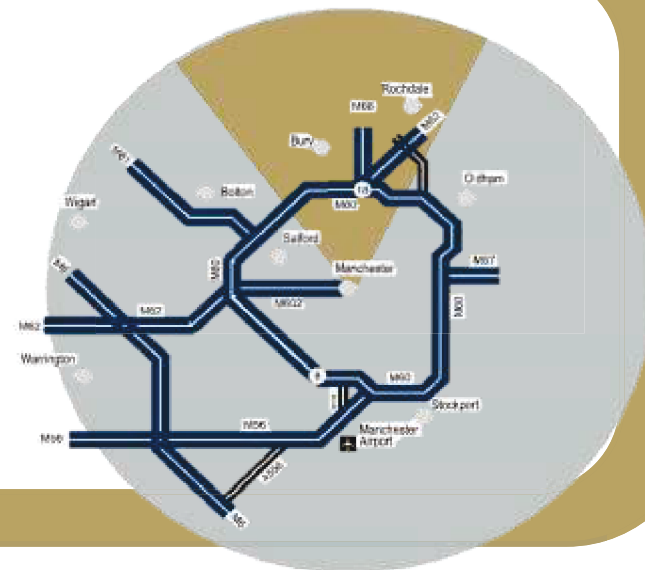
North Sector Theme

N1:

- New Direct Radial from M66 (Simister) area Closer to Manchester City Centre

N-PT:

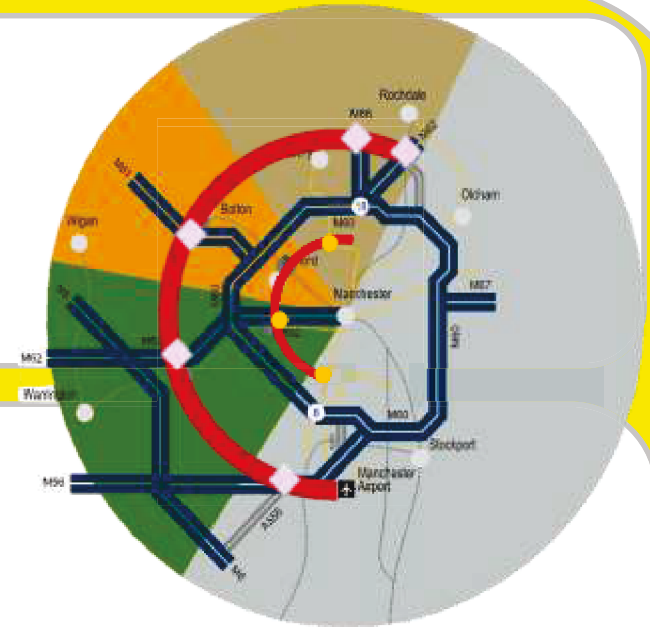
- In Sector Public Transport Interventions including:
 - Park and Ride for Metrolink
 - Lengthening of station platforms
 - More parking capacity at stations
 - Cross city bus movements
 - Combined cycle and Park and Ride facilities
 - Cross subsidies



Public Transport Max Theme

Sector Based Public Transport Interventions:

- West Sector PT
- North-West Sector PT
- North Sector PT



Other Public Transport Interventions:

- Designate Manchester Airport as a Public Transport Transfer Hub
- New Orbital Rail or LRT Route Running Parallel to the M60 Linking Existing Radial Routes (Airport, Warrington, Chat Moss, Bolton, Bury and Rochdale Lines)

Policy Overlay Theme

Infrastructure

- Ultra Low Emission Vehicle Lanes
- Multimodal Freight Interchanges (TfN Freight Strategy)
- Low Emission Zone (Restrictions on Vehicles Worse than Euro 6)
- HGV Peak Period Road User Charging
- SRN Road User Charging
- Area Wide Road User Charging

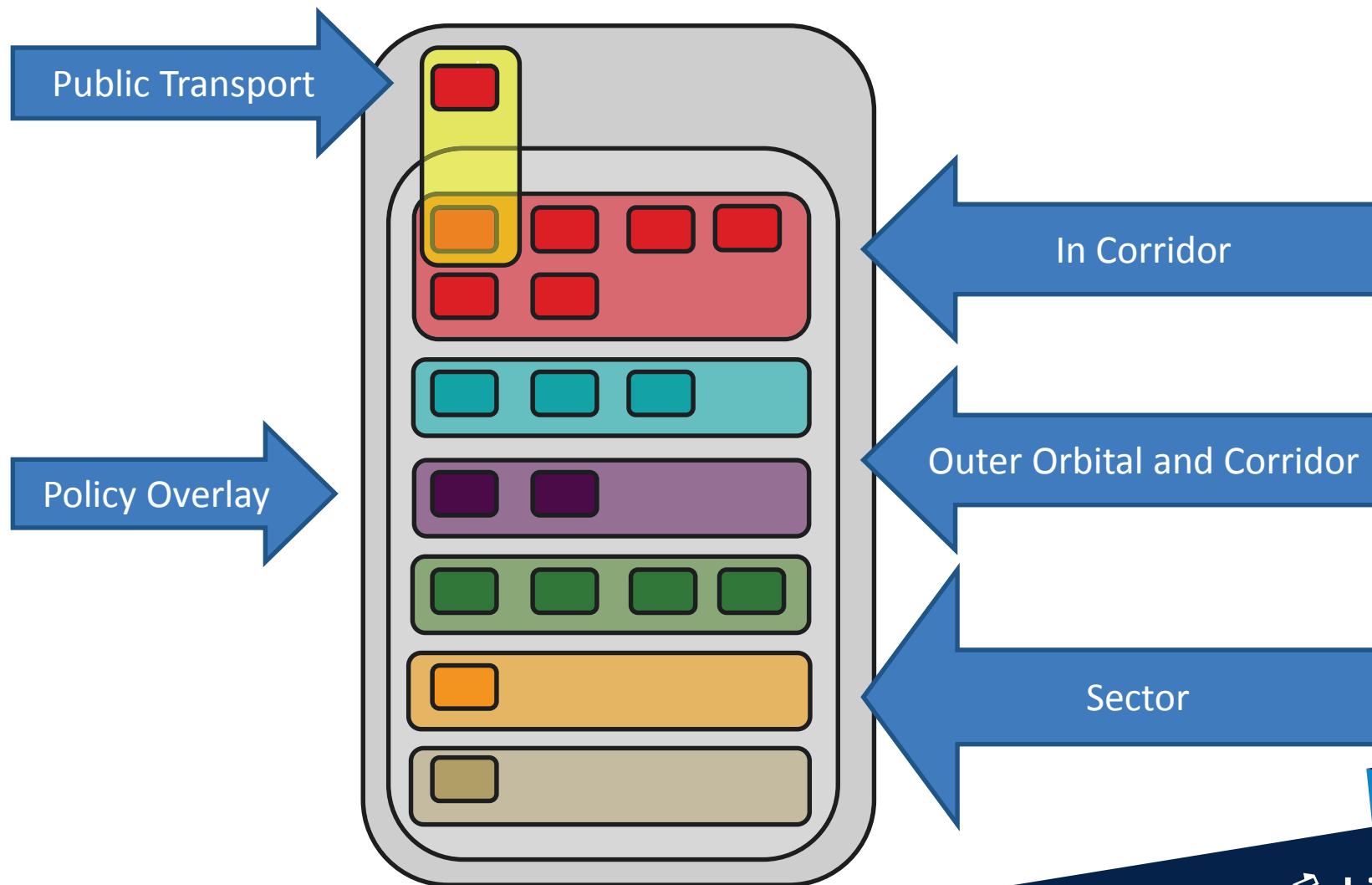
Public Transport and Travel Planning

- Bus Franchising (Re-regulation)
- Smart Ticketing and Multimodal Interoperability
- Enforceable Travel Plans for New Developments
- Personalised Travel Planning Across the Study Area

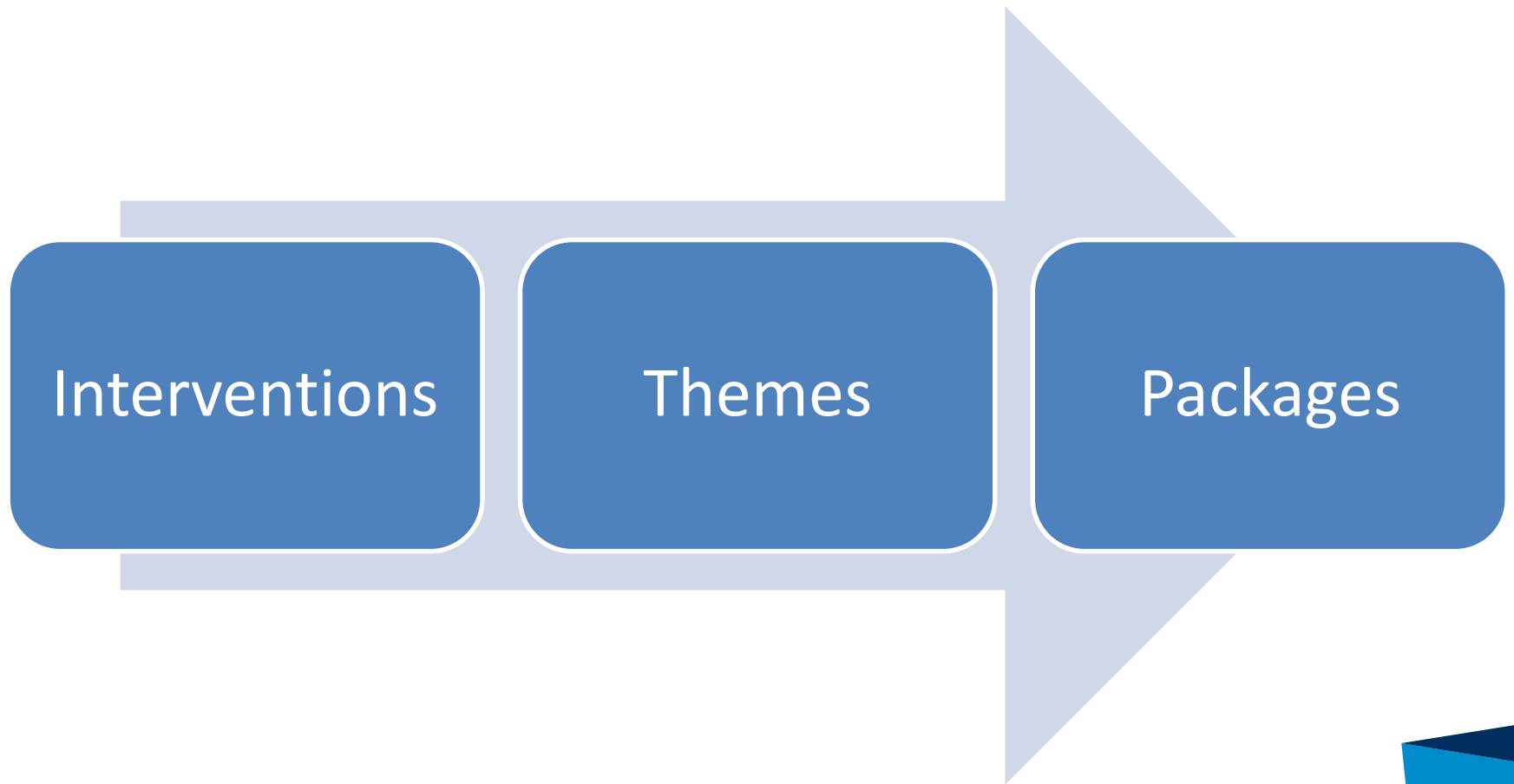
Technology

- ITS/Traffic Management on KRN within Study Area as Part of TfGM Ongoing KRN Development
- Mobility as a Service (Integrated Payment, Booking, Demand Management on Account)
- Smart IT (Demand on Travel) to Provide Enhanced Travel Information
- Integrated Parking Management Strategy

Option Framework



Process

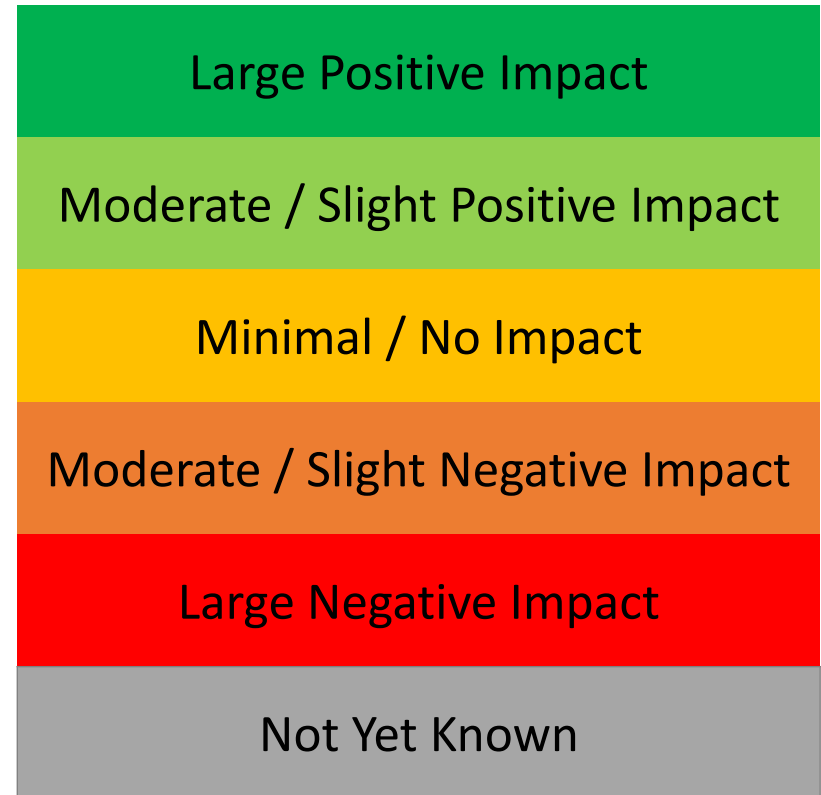


Outline Process for DfT TAG Stage 1

- EAST assessment and supporting information to consider interventions
- Input to OAF to consider themes
 - Assessing Packages
 - Refine Packages spanning themes
 - Shortlist of packages
- Strategic Outline Business Case to consider packages

Assessment Criteria

- Study Objectives:
 - Growth
 - Network Performance
 - Connectivity
 - Environment
- Scoring system:



Breakout Session

- Given the Study's objectives, is there anything missing from the long list of proposed interventions?
- Do you have any comments on how the long list of proposed interventions have been grouped into themes ?