

Welcome to the Oxford to Cambridge **Expressway Strategic Study** Stakeholder Reference Group 7 July 2016

AGENDA

Item	Topic	Lead	Start
			Time
1	Networking Opportunity	All	10:00
2	Welcome	Philip	10:30
	Introductions		
	Agenda		
3	Strategic Studies update	Paul	10:35
4	A1 East of England Strategic Study – from Long List to short list	Kieron	10:45
5	Breakout session to review/comment on short listed options	All	11:15
6	Feedback and Comments	All	12:00
7	Next steps	Paul	12:15
8	Lunch / Networking Opportunity	All	12:30
9	Welcome to those joining the afternoon session	Alan	13:00
	Introductions		
	Agenda		
10	Update on RIS1 A428 Black Cat to Caxton Gibbet and other schemes within the	Dave/	13:05
	study vicinity	Alan	
11	Strategic Studies update	Paul	13:35
12	Oxford to Cambridge Expressway Strategic Study – from long list to short list	Adrian	13:45
13	Breakout session to review/comment on short listed options	All	14:15
14	Feedback and Comments	All	15:00
15	Next Steps	Paul	15:15
16	Event closure	Paul	15:30



A428 Black Cat to Caxton Gibbet improvement scheme

A1 East of England and Oxford to Cambridge Expressway Study
Stakeholder Reference Group
7th July 2016

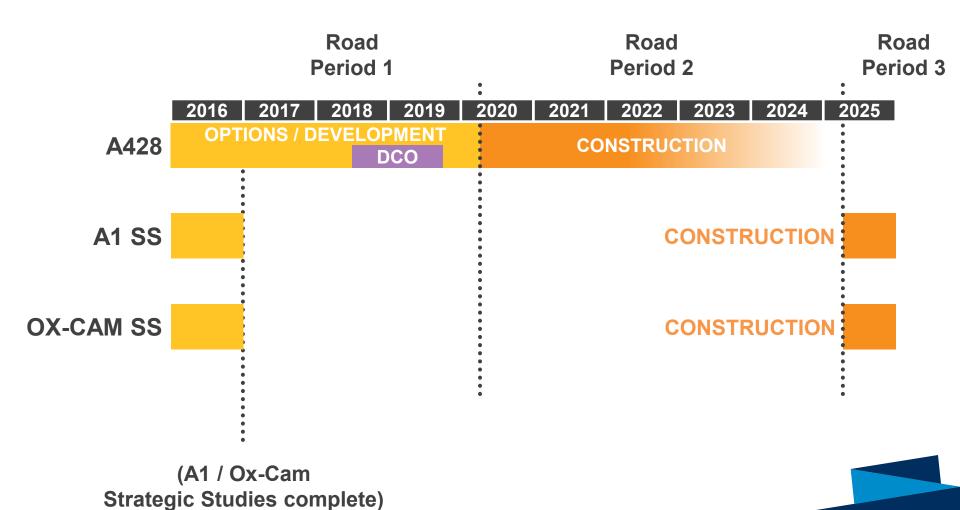
Introductions / Agenda

- Andrew Kelly, Highways England, A428 Project Manager
- Ian Cook, Jacobs, A428 Project Manager

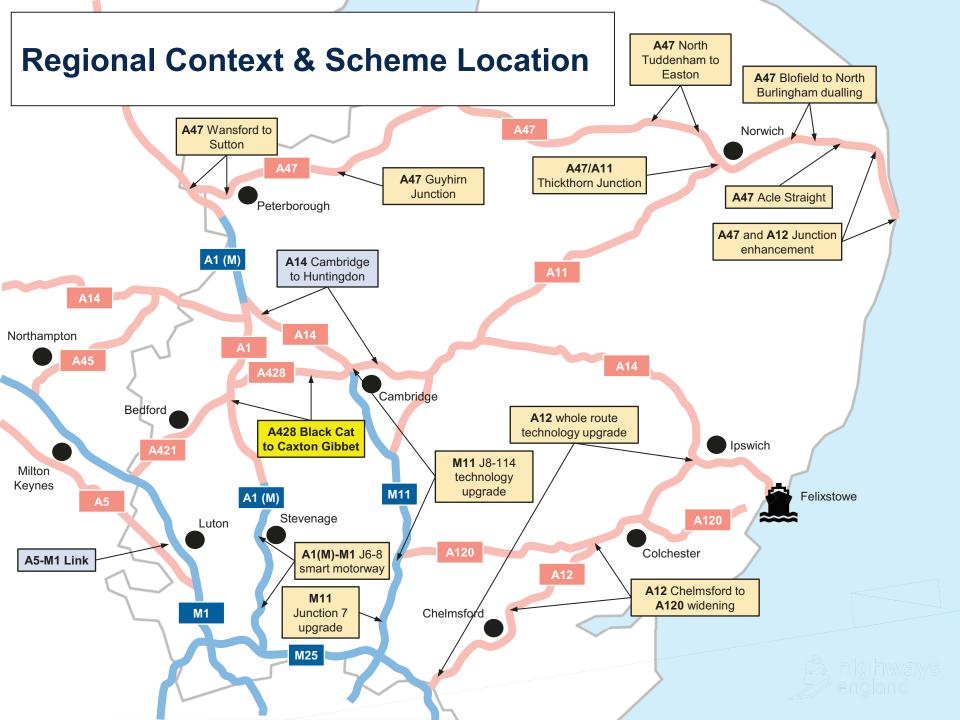
- A428-Strategic Studies Timing & Interfaces
- Background, Context & Challenges
- Progress to date
- Next Steps
- Questions



Timing & Interfaces







A1-A421Black Cat Junction





Challenges

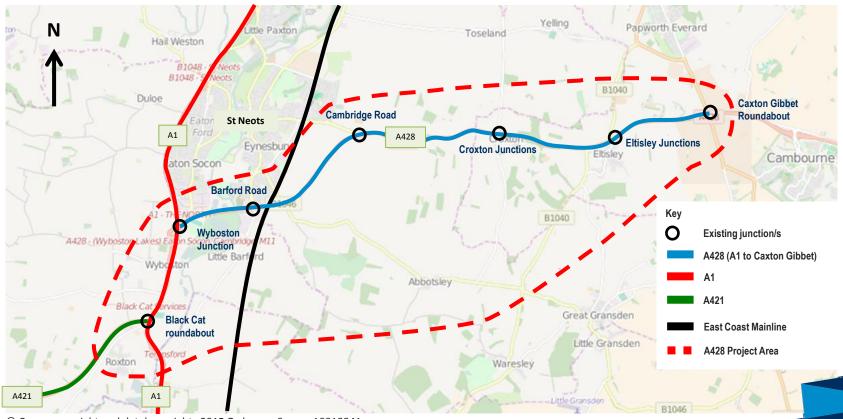


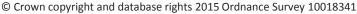
Planned future development

Safety/Serviceability issues

Road Investment Strategy Announcement

"improvement of the A428 near St Neots, linking the A421 to Milton Keynes with the existing dual carriageway section of the A428 to Cambridge, creating an Expressway standard link between the two cities via Bedford. The scheme is expected to include significant improvements to the Black Cat roundabout, where the A1 currently meets the A421." Road Investment Strategy







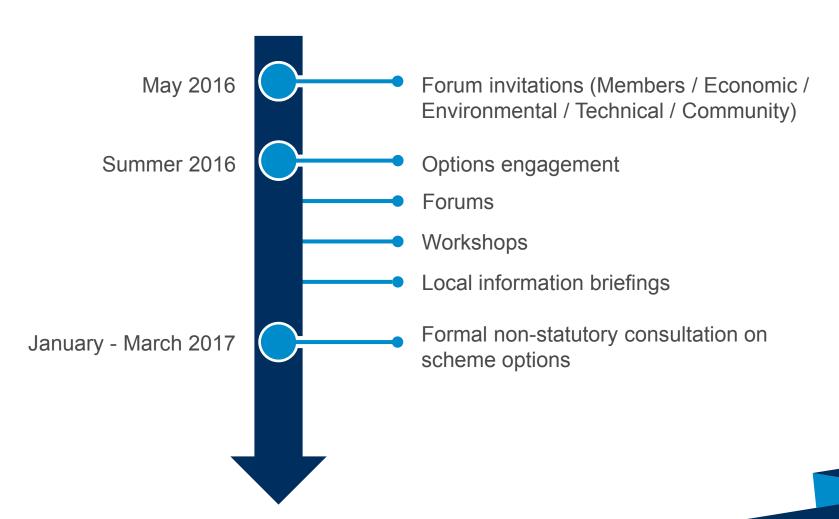
Progress To Date

April 2014 Previous route strategy studies completed Road Investment Strategy (RIS) published December 2014 - April 2015 and commissioning of Strategy, Shaping and Prioritisation works Data gathering/review, scheme development, May 2015 - February 2016 strategic outline business case development and early stakeholder events Options phase commenced and initiation of March 2016 - to date **Options Identification** Initial engagement with key stakeholders Surveys (incl. traffic & environmental surveys) Traffic model development

Next Steps



Options Engagement Timeline





Other RIS 1 schemes within the vicinity of the study corridors

Highways England Schemes:

- A1 J6-8 Smart Motorway: Start of Works 2019
- A14 Huntingdon to Cambridge: Start of Works by December 2016
- A34 Technology Improvement: Start of Works 2017
- A34 Oxford Junction Improvement: Start of Works 2017
- A5 to M1 Link: Open for Traffic end of June 2017
- M11 J8-14 Technology: Start of Works March 2020

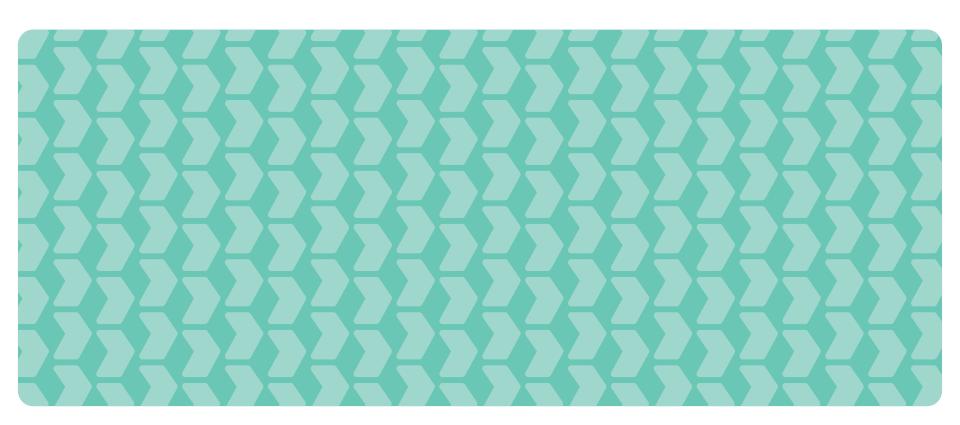
Other:

- A421 to M1 J13 to Milton Keynes (Eagle Farm): Completion subject to funding 2018/19





Item 11: Strategic studies update Stakeholder Reference Group, 7 July 2016





Northern strategic studies - update

Trans-Pennine connectivity north of Manchester is poor; there is no complete eastwest dual carriageway link before Edinburgh.

Upgrading Northern Trans-Pennine routes, the A66 and A69, could being significant benefits to freight.

Manchester's North West
Quadrant is very congested
and near capacity; additional
capacity either on the road
or nearby could support
growth. Multimodal options
are being considered to
mitigate the environmental
challenges.

Final reports published by the end of the year

There is currently no modern road linking
Manchester and Sheffield. A

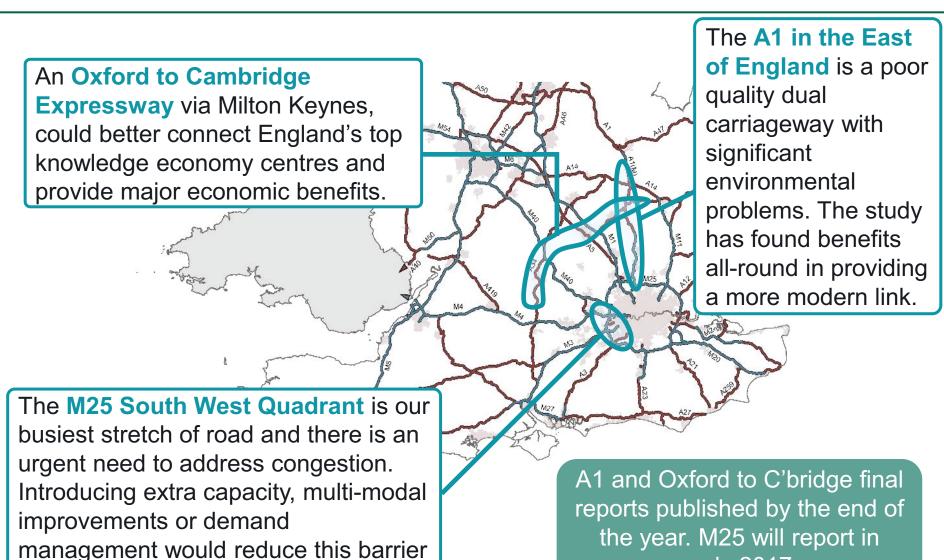
Trans-Pennine Tunnel under the Peak District

National Park is technically feasible and could reduce journey times by 30 minutes and bring significant wider economic benefits. This is the largest single project and is likely to prove very expensive.



to growth.

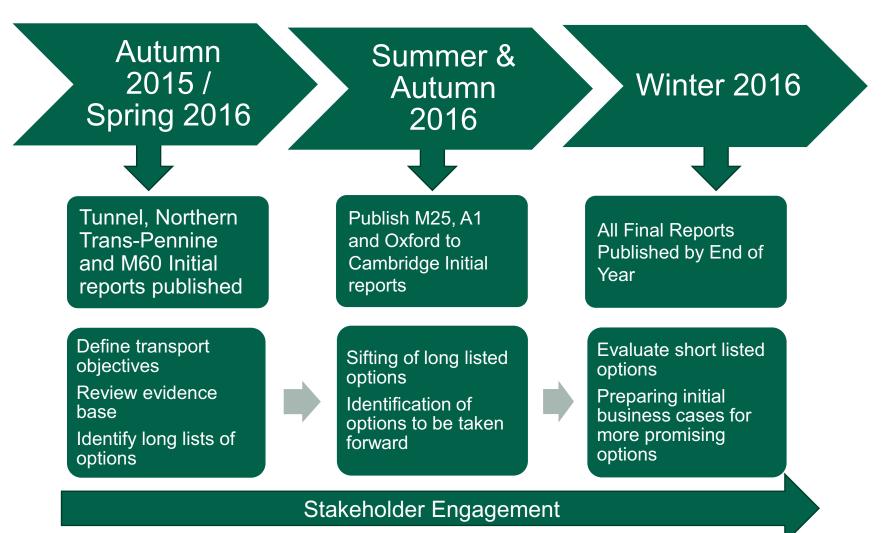
Southern strategic studies - update



early 2017.



Strategic Studies timeline - overview





The process of developing RIS2 is underway – evidence is being gathered from many sources

Why

The Road Investment Strategy process enables a more strategic process of setting investment.

Previously, ministers have had to choose from a set of historically-determined options.

Now, it is possible to set the agenda and build up an investment programme from the beginning.

What

There are four parts to the RIS:

- Strategic Vision
- Investment Plan
- Performance Specification
- Statement of Funds Available

When and how

Process published with Budget 2016:

- Research phase gathers evidence for potential priorities and investments; seeks the views of stakeholders. This is scheduled to last until the end of 2017.
- Formal negotiations with Treasury and Highways England would start in 2018. This would determine the funding available and set the performance specification.
- The RIS will be formally published by March 2020, with construction starting from 2020

Where are we now

- Strategic Studies are well advanced
- ▶ HE collecting evidence for Route Strategies through online mapping tool
- Process for gathering evidence and stakeholder views to inform the RIS underway

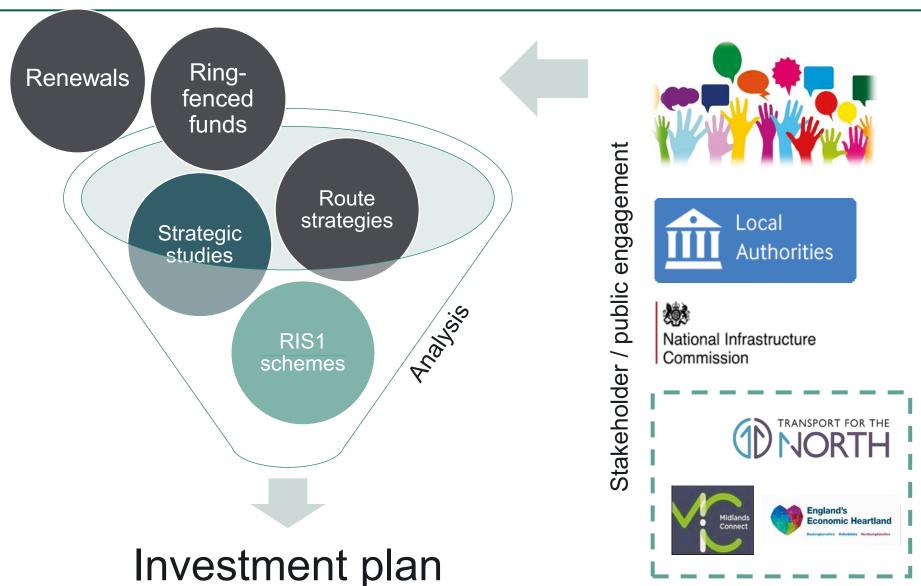


How do we currently think RIS2 will look?





How will the strategic studies be considered in the RIS?





Infrastructure is key to the Government's economic plan

- Queen's speech confirmed that the Commission will have a statutory and independent basis
- The Chancellor asked the commission to:make recommendations [to government] to maximise the potential of the Cambridge Milton Keynes Oxford corridor as a single, knowledge intensive cluster that competes on the global stage, whilst protecting the area's high quality environment and securing the homes and job the area needs
- Call for evidence until 6 August
- The expressway strategic study is an input into the NIC study
- Interim report to be published by end of the year, final report 2017







Road Investment Strategy: key dates

Research

- Strategic Studies
- Route Strategies
- Highways England publishes Strategic Road Network Initial Report on the state of the network and suggested priorities

Evidence used in drafting RIS2



- Department for Transport produces
 Road Investment Strategy
- Highways England produces Strategic Business Plan
- Office of Rail and Road advises Government on efficiency of both

RIS2 finalised and published

Mobilisation

- Scheme development
- Highways England publishes Delivery Plan

1 April 2020 - Road Period 2 begins

Delivery

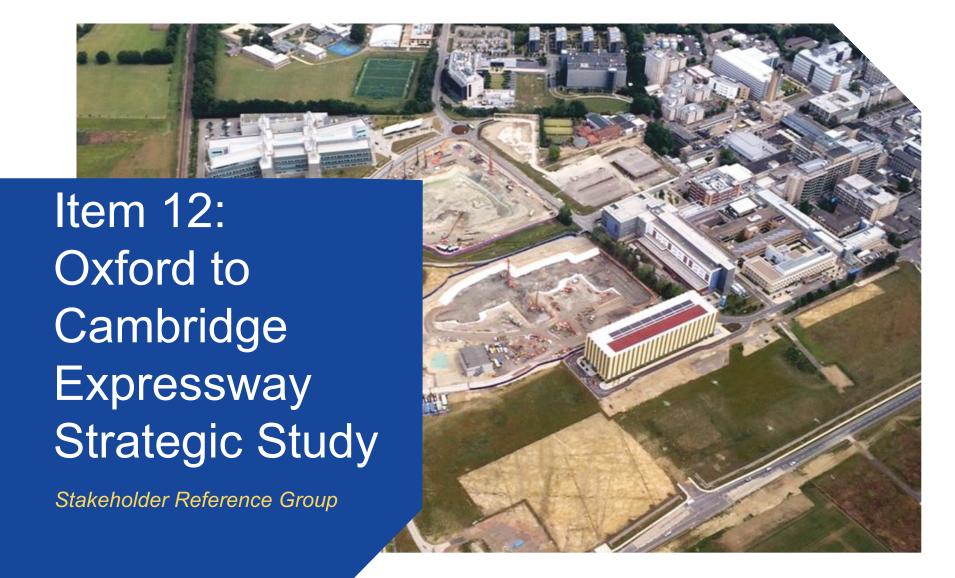


until the end of 2017



between 2018 and 2020

This is also when the National Roads
Fund comes on stream









INTRODUCTION

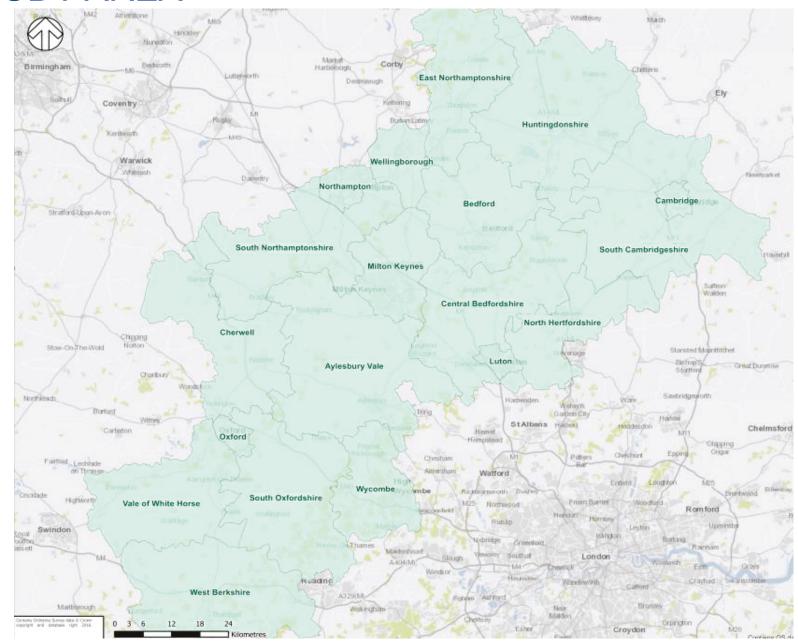
- → Study Progress
- → Progress since the last SRG on 25th February
- →Option Development
- → Emerging shortlist
- → Next steps
- → Workshop session





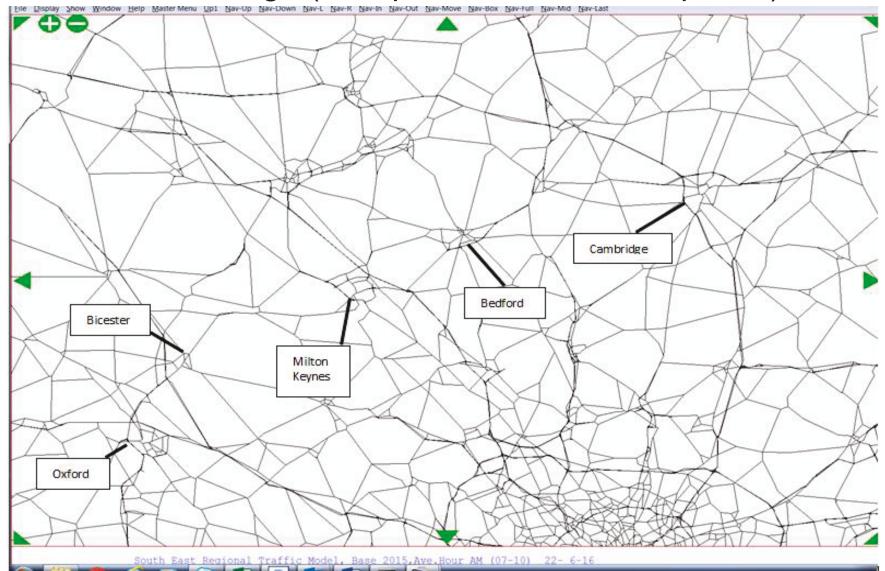


STUDY AREA

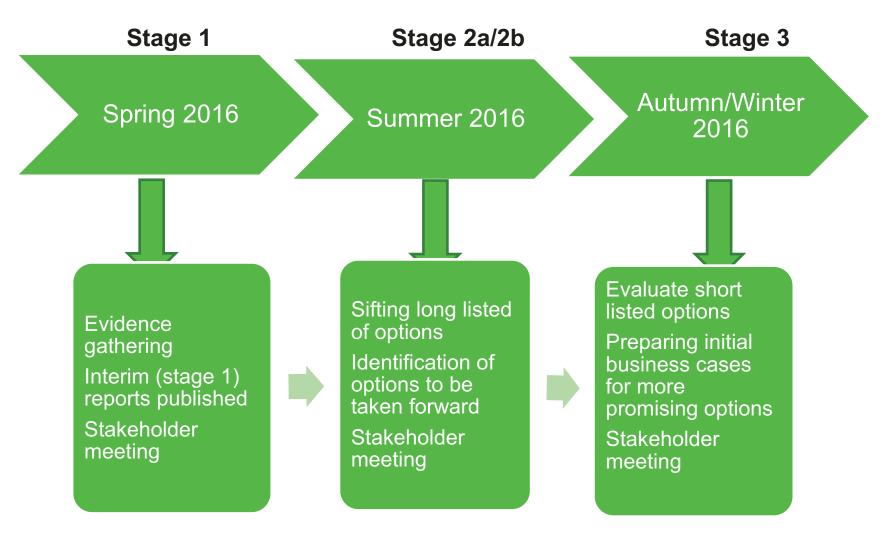


MODELLING

→ Model coverage (incorporate EWR assumptions)



STUDY STAGES AND PROGRAMME









STRATEGIC AIMS AND OBJECTIVES

- → The strategic aim of this study is to investigate the case for linking existing roads and creating an Oxford to Cambridge Expressway, which would create a high-quality strategic east-west link between Oxford and Cambridge, via Bedford and Milton Keynes.
- → The RIS Investment Plan describes the purpose of this study as follows:
 - "...examine the case for creating an Expressway to connect the towns and cities of the 'Brain Belt' together. It will also look at other enhancements on existing roads along the route, including the A34 around Oxford."
- → The study will identify options for a new strategic expressway corridor and upgrading existing routes, with the aim to improve east-west connectivity within the study area, build network resilience and support economic growth.
- → The study will identify options that can feasibly be constructed and appraise the strategic, economic, safety, environmental, operational benefits and impacts for each of the options, making recommendations regarding a preferred option(s).







PROJECT OBJECTIVES

- 1. CONNECTIVITY Provide an East – West strategic transport package of measures that delivers enhanced connectivity through faster, safer and more reliable connections across the corridor in the broad arc from Oxford to Cambridge via Milton Keynes
- 2. ECONOMIC GROWTH Build on the ambition to unlock the economic potential in the corridor by facilitating strategic growth to the benefit of the UK economy through increased employment, housing & productivity
- 3. SKILLS AND ACCESSIBILITY Promote accessibility and wider socio-economic benefits, by improving access to job opportunities at key employment centres, developments, and at education, leisure, health & retail facilities whilst creating wider employment opportunities
- PLANNING FOR THE FUTURE Reduce traffic on local roads to improve the environment 4. for communities and contribute to better safety, security and health whilst promoting sustainable transport modes
- 5. ENVIRONMENT Reduce carbon emissions, improve quality of life and provide a healthy, natural environment by reducing transport emissions, providing sustainable travel modes and promoting equality and opportunity
- 6. INNOVATION Apply innovative technology wherever possible to support the sustainable planning, construction and operation of the transport measures







STUDY PROGRESS

- → Stage 1 report published in Summer 2016
- → Stage 2 reports on Option Development and sifting being finalised
- →Stage 3 Appraisal of better performing / shortlisted options commencing soon
- →SOBC autumn / winter 2016
- → Feeds into National Infrastructure Commission wider growth study for corridor over longer timescales















LAST SRG ON 25TH FEB

- → Presented the Evidence Base extended coverage following comments
- → Revised Objectives based on feedback
- → Demonstrated need and took on board further evidence
- →Outline of the Strategic case
- → Emerging concepts for long list informed by workshop



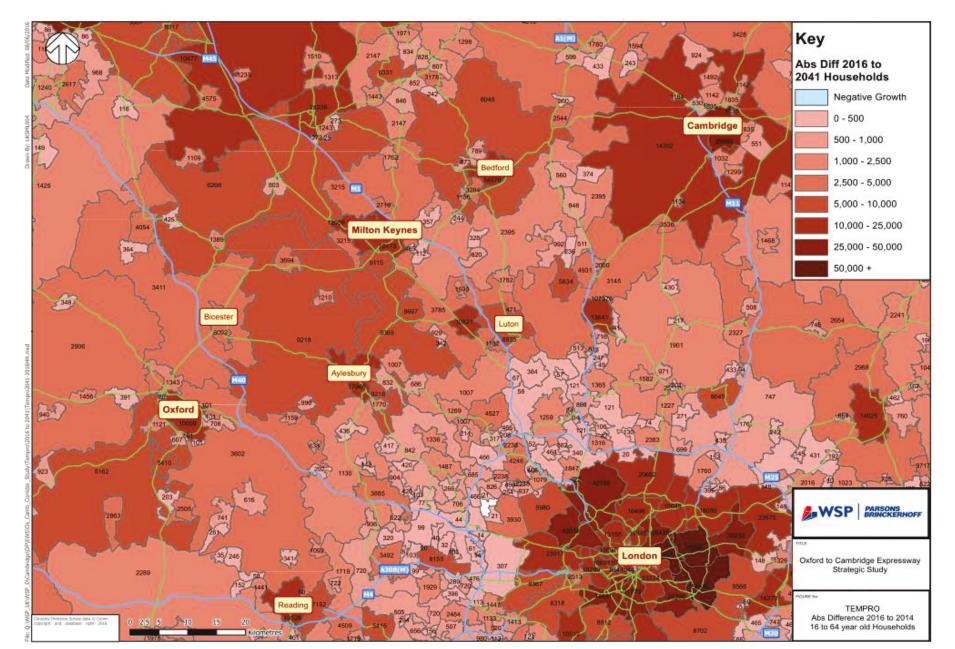




OUTLINE CASE

Challenges	Outline of Case	
250,000 homes 270,000 jobs	Fast growth cities	
400,000 population	Attractive corridor for growth	
Transport Pressures stalls growth	Productivity Benefits	
Demand for journeys will grow by 40% by 2041. However, current infrastructure can	Key is wider economy and differentiation from London	
only accommodate 25% of planned growth	Strategic influence of corridor	
Increased demand for housing and	Local connections	
declining affordability Skills shortages and residents with low skills levels	MK to Oxford may be main beneficiary along corridor (largest reduction in JT) and matches industry functions	
	Knowledge based economy	
Severe congestion due to lack of strategic road and rail connections		

GROWTH



KEY FINDINGS





- Improved transport infrastructure vital precursor to **development**;
- Expected 40% increase in travel demand by 2035; and
- Longer journey times limit competitiveness and local economic growth.

Housing affordability is also identified as a key constraint



- Affordability pressures make it harder for firms to recruit/retain staff.
- **Encourages** out-migration of young people from cities; Results in **increased** journey lengths;
- Housing development places further pressure on transport networks.



Skills are identified as a challenge

business skills shortages across a range of sectors in both leadership and management, as well as more technical and basic skills.











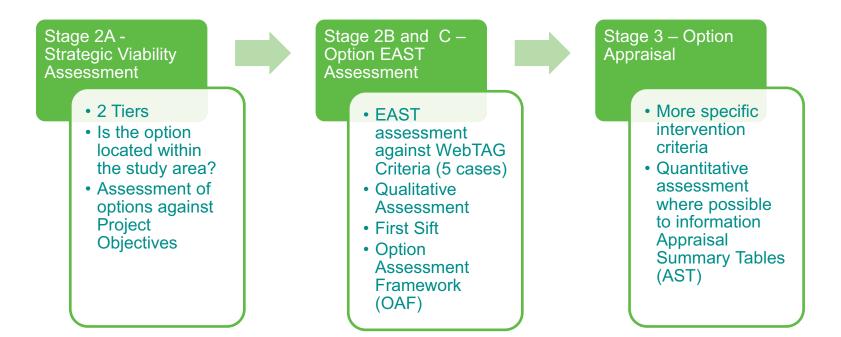






OPTION DEVELOPMENT PROCESS

→ The initial option assessment will be qualitative with a descriptive analysis of the likely impacts of the intervention in the assessment area based upon the available evidence base and supporting information









CONCEPTS

Road

- Upgrade to current route
- Northern route (e.g. A43)
- Southern route via Aylesbury and north Luton
- Same corridor as East West Rail
- Variations and combinations of above



Rail

- East West Rail
- Wider rail connections



Local Access

- Tackle access to urban centres
- Homes to jobs (key skills, labour markets) Urban Mobility Plans

- City Access Strategies Accessibility for all modes
- Local connections, key road, rail and bus links









CONCEPTS

High Quality Passenger Transport

- Bus Rapid Transit (BRT)
- X5 / NEx priority measures
- Local BRT connections



Behaviour Change

- Sustainable travel / mode shift
- **Urban Accessibility**
- **Travel Planning Measures**

Technology

- Innovative ways to address corridor challenges Information Technology Systems Vehicles (inc power)
 Coordination inter-urban connections

- Ticketing
- Data and Personal IT
- Integration









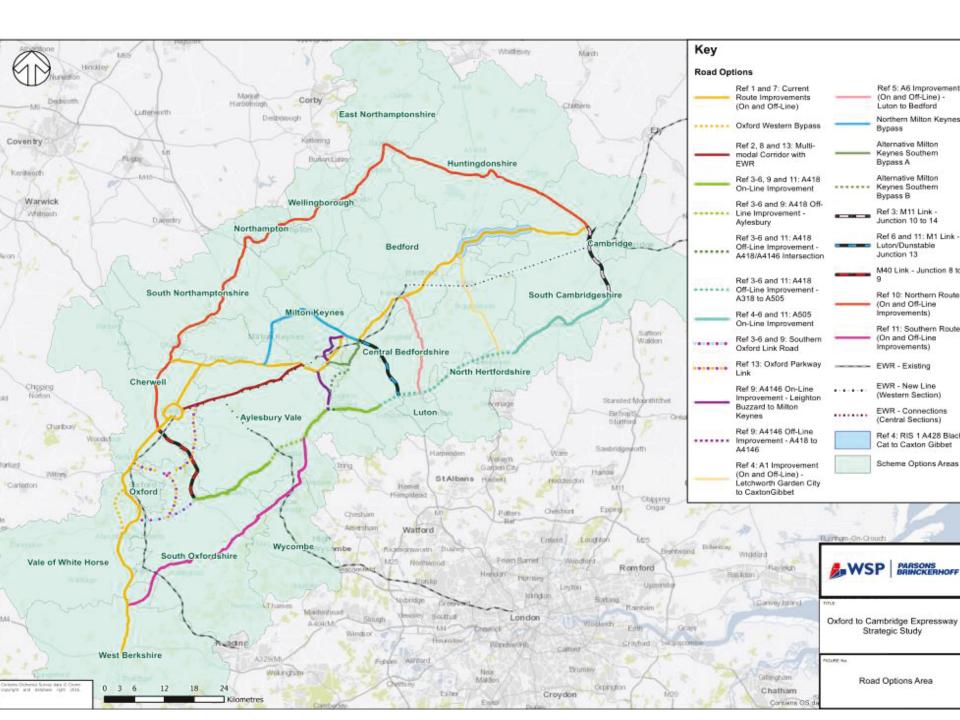
CONCEPTS TO OPTIONS

- → 40 options in the long list
 - 15 road based
 - 4 rail based
 - 6 technology
 - 5 local access
 - 6 behaviour change
 - 4 high quality public transport









EAST TOOL SIFTING

- → Concepts to Long List
- → EAST assessment:
 - Strategic and objectives
 - Economic and Environment
 - Managerial
 - Financial
 - Commercial
- Consideration of Environmental aspects and constraints







OPTION ASSESSMENT

- → Performance of options against key criteria to help inform more detailed sifting
- →Options outside study area/O2C corridor perform less well (but still included within EAST for robustness) in terms of likely positive impacts on corridor for growth and don't meet objectives
- → Provides a focus for areas to develop refined criteria and shape methodology/approach assessment and future appraisal







LONG LIST OF OPTIONS

- → Concepts to Long List
- → EAST assessment:
 - Strategic and objectives
 - Economic and Environment
 - Managerial
 - Financial
 - Commercial
- Consideration of Environmental aspects and constraints
- Considering growth outside study area as well







EAST TOOL SIFTING

- → Wider Economic Indicators
 - Journey Times (including business to business)
 - Population, jobs and Housing Growth

2011 to 2041			
Name	Total Pop	HHs	Jobs
Bedford	54660	34176	7158
Luton	28731	12765	16506
Mid Bedfordshire	28291	12352	4592
South Bedfordshire	55165	34834	3154
Cambridge	55845	33056	24232
Huntingdonshire	32893	20019	12597
South Cambridgeshire	59771	33142	22859
South Northamptonshire	21106	11045	7108
West Berkshire	24105	10835	15337
Aylesbury Vale	74806	48108	17791
Milton Keynes	98571	52637	32445
Cherwell	30279	17314	8339
Oxford	25422	13026	14135
South Oxfordshire	22864	14653	5076
Vale of White Horse	30849	19942	11930
West Oxfordshire	16664	7715	3697

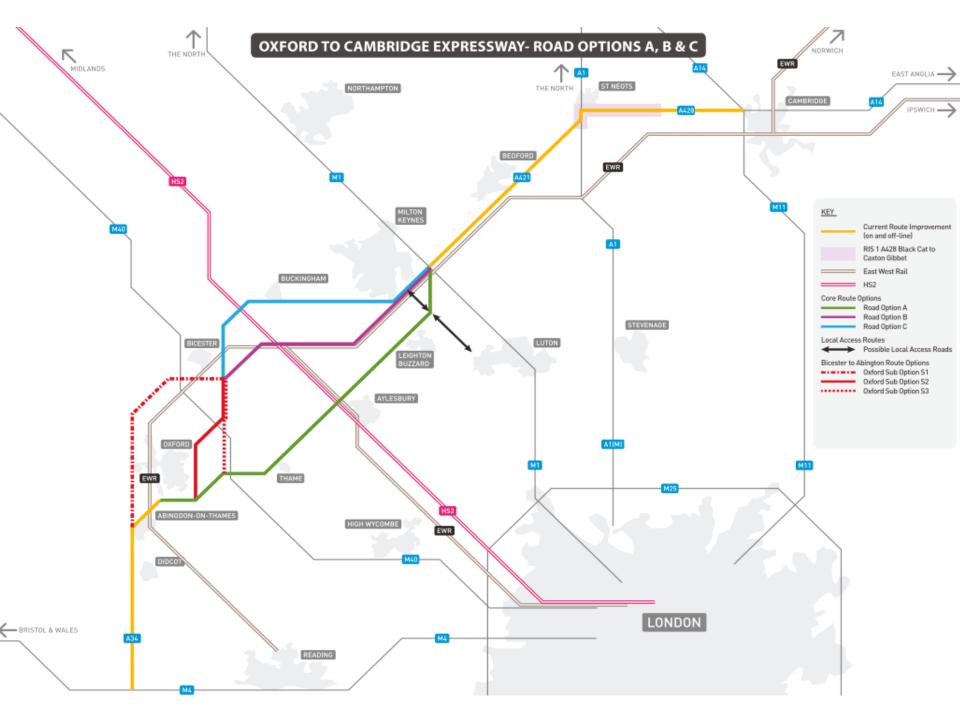
SHORTLISTED OPTIONS

- → 3 core expressway options
 - Sub-options around Oxford and Milton Keynes
- → Local access roads, eg into main urban areas and along existing N-S, eg A5
 - Rail (EWR)
 - Technology
 - Local Access/Urban Mobility
 - NMU measures integrated as part of road options
- → Develop packages

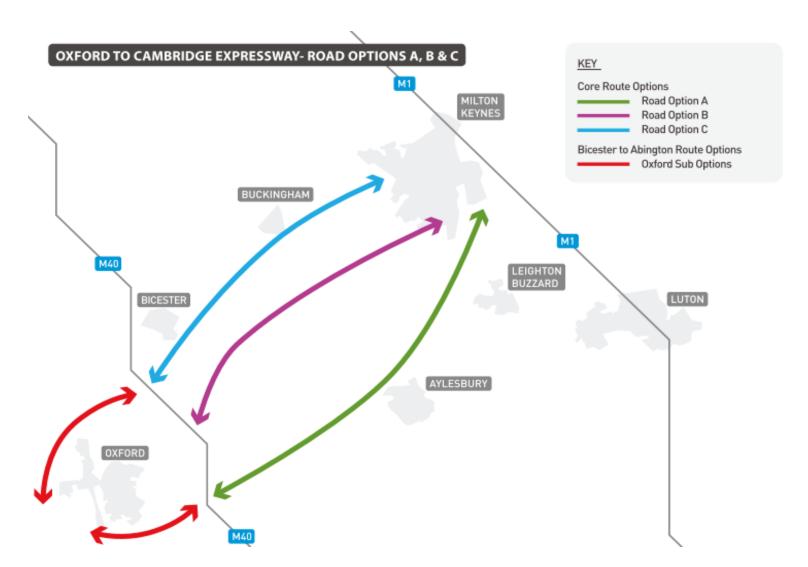








EMERGING ROAD OPTIONS SHORTLIST

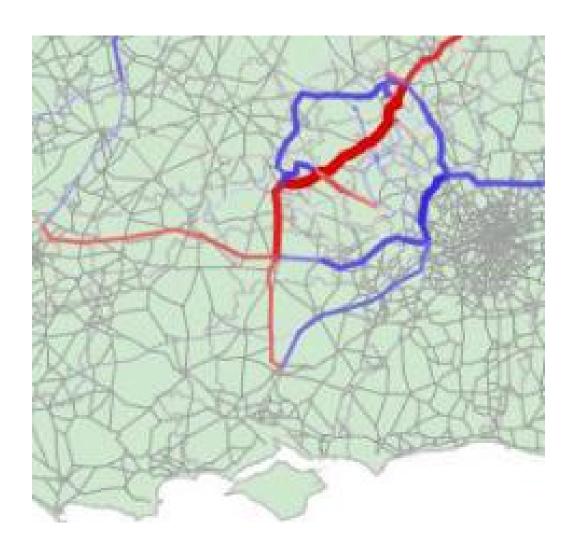








STRATEGIC CASE



- Connectivity (both rail and road) along the corridor is currently restricted, particularly between Oxford and Milton Keynes missing link (and multimodal aspect with East West Rail)
- Signficant Population growth
- Freight movement across southern part of UK







OPTIONS - WIDER PACKAGES

Package A	Package B	Package C	
Expressway	Expressway	Expressway	
Option A -	Option B –	Option C –	
Southern Route	central following	Northern Route	
	EWR		
East West Rail			
Technology			
Rail Integration			
Local access / mobility			
Non-motorised users			















NEXT STEPS

- → Stage 1 report published Summer 2016
- → Finalise option shortlist and high level modelling (Stage 2)
- → Progress modelling and appraisal (Stage 3)
- → Strategic Outline Business Case (SOBC) end 2016
- → Next SRG in Autumn 2016







NEXT STEPS

- → Views today will help refine and further shape the options / packages
 - We have a break out session for you to gives us your views
- → Minutes and presentation to be circulated
- → Reports will be placed online as they get approved
- → Final Stakeholder Reference Group meeting to disseminate the final findings and talk through the outcomes and recommendations







ITEM 13: WORKSHOP SESSION

- → Your chance to help shape and inform the options / packages
- → Divide into breakout groups, each with a facilitator
- → Each group to consider options / packages

- → 15 minutes per option / package timing will be strict
 - But we would welcome your thoughts after the event if you feel you have more that you wish to say
- → In each 15 minute slot each group has questions to consider
 - You can make bullet points or annotate maps







WORKSHOP SESSION

- → Comments on Expressway route options A, B and C
- → Comments on wider options (technology, urban access etc)
- → Above in context of key questions
 - Views on East-West connectivity
 - Patterns of growth
 - Constraints/barriers to growth
 - Market failures and role of transport
 - Role of improved of transport in supporting economic growth

