

## NIC CaMKoX Scenario

Baseline scenario	
Scheme	Cost (£m)
<b>Cambridge</b>	
A14 Cambridge to Huntingdon Improvement Scheme	1200.0
Cambridge North New Station	50.0
Ely Southern Bypass	35.0
M11 Junctions 8 -14 Technology Upgrade	30.0
St Neots to Cambridge PT capacity	3.5
Madingley Road Bus priority	34.6
A428 to M11 segregated bus route / A428 corridor Park & Ride	24.5
The Chisholm Trail	8.4
Cross City Cycling - five projects north east and south of cambridge - key links to cycle routes across the city	22.6
Milton road bus priority scheme	23.0
Histon road bus priority scheme	4.3
Cambridge access study - eight-point plan to tackle congestion	2.6
Western Orbital - bus priority scheme	9.0
A1307, three campuses to Cambridge	39.0
Improve accessibility of Babraham Road site through provision of segregated car access	1.5
Consideration of a new railway station at Cherry Hinton	50.0
Consideration of a new railway station at Fulbourn	50.0
Newmarket Road bus priority scheme	11.9
Hills road bus priority scheme	25.8
Chesterton Road bus priority scheme	10.0
East Road bus priority scheme	10.0
Hauxton to Trumpington bus priority scheme	15.8
Busway between new Hauxton P&R site and Trumpington P&R	33.1

Inbound bus lane between Addenbrooke's and Cherry Hinton Road	18.7
Comprehensive bus priority between Station road and Gonville Place	5.0
Busway between Airport Way and Barnwell Road	5.0
Busway parallel to M11 corridor	5.0
Busway linking Coldham's lane to Newmarket road	18.7
Busway linking Newmarket road to Cambridge science park station	64.7
Busway linking cambridge science park station to Milton road	5.0
Highway capacity between Addenbrooke's Road and Babraham Road	4.0
Highway capacity between Babraham road and cherry hinton - including tunnel under the Gogs	4.0
Highway capacity between Airport Way and the A14 Fen Ditton Junction	4.0
Elizabeth Way - East Road - Newmarket Road junction, remodelling to improve priority for buses, cyclists and pedestrians at grade	10.0
Grange Road bus priority	10.0
Bus priority at key congestion points on A1307	36.0
Royston Rail Crossing	0.0
A428 Trunk Road	3.5
A505 - A11 - A1304 route	3.5
Bourn Airfield	0.0
A10 Growth Corridor Littleport to Ely North	30.0
A10 South Cycle Super Highway	3.7
<b>Subtotal Cambridge</b>	<b>1925.4</b>
<b>Milton Keynes - Northampton</b>	
A45 Daventry Development Link Road	32.0
Bletchley Station	1.5
Iver, Taplow and Winslow stations	0.7
Sandy Lane Relief Road Phase 2	5.4
Smart Commuting	2.3

Smart Corridors (Local Sustainable Transport Scheme)	9.0
Wootton Hall Park Access Improvements	2.6
Improvements to the A43 in Northampton - extra lanes, improved public transport and roundabout improvements	20.8
A361 Chipping Warden relief road	2.0
A422 Farthinghoe Bypass consultation	11.0
A45 Nene Valley Way - junction improvements between Great Billing and M1 J 15	7.8
Upgrade of Northampton radial routes - Lumbertubs Way, Kingsthorpe Corridor and connections through to Dallington Grange / Kings Heath	3.2
Northampton town centre to Brackmills Connectivity	2.0
Abington Street / Kettering Road / Wellingborough Road Gyratory	2.0
Bedford Road / Cliftonville Road	2.0
Bedford Road / Victoria Promenade / Cheyne Walk / York Road / Billing Road	1.0
Billing Road / Alfred Street / Cliftonville Road	2.0
Gas Street Roundabout	2.0
Harlestone Road/Sandy Lane Improvement North	1.0
Kettering Road / Round Spinney	3.0
M1 Junctions	3.5
North Grafton Highway (junction of the A5 and H5/A509)	4.0
Regents Square	1.0
Spencer Bridge Road / St Andrews road / Grafton Street	2.0
The Plough Gyratory	1.2
Towcester Road / St Leonards Road / London Road / Cotton End	2.0
Upton Way / Weedon Road Roundabout	2.0
Weedon Road / Spencer Bridge Road / Harlestone Road	2.0
Wellingborough Road / St Edmunds Street	2.0
Sustainable Transport Links to East West Rail's arrival in Winslow	1.0

Joining up St. James Mill Road	0.6
A45 Northampton to Wellingborough - upgrades including the Wilby Way roundabout	3.2
A43 Abthorpe roundabout improvement scheme	7.0
Aylesbury Eastern Link Road and Stockdale Link	31.0
Northampton Town Infrastructure Delivery Fund	1.0
Smarter Routes to Employment projects in Luton and Dunstable	1.6
<b>Subtotal Milton Keynes and Northampton</b>	<b>178.3</b>
<b>Subtotal Cambridge - Milton Keynes and Northampton</b>	<b>2103.7</b>
<b>Oxford</b>	
Electric Spine Development Programme - Oxford to Coventry	208.0
Headington Phase 1 & Eastern Arc Transport Improvements	12.5
Oxford Corridor Capacity Improvements	50.0
Oxford's Northern Gateway and A40 approaches to Oxford	11.8
Didcot Station Car Park Expansion (Foxhall Road)	13.5
Cowley Branch Line	450.0
Eynsham P&R	11.1
Cumnor P&R	11.3
Langford Lane P&R	11.0
Sandford P&R	11.4
Thornhill expansion	2.8
Kidlington P&R	11.0
A34/A423 priority measures	2.0
City centre access control/restriction	0.1
Rail station bus terminal	12.5
Gloucester green terminal	7.5
Speedwell St site terminal	7.5

Smart mobility journey planning	88.2
Cuttelsowe & Wolvercote roundabout improvements	10.0
A40-44 link road	11.8
HE A34 improvements	800.0
SE ring-road capacity improvement	12.0
Eastern Arc traffic controls	10.4
<b>Subtotal Oxford</b>	<b>1766.4</b>
<b>Subtotal Cambridge - Milton Keynes and Northampton - Oxford</b>	<b>3870.2</b>
<b>Inter-Urban Corridors</b>	
A5 - M1 Link Road	162.1
East-West Rail Link Western Section Phase 1 Oxford-Bicester	332.0
East-West Rail Link Western Section Phase 2 Bicester-Milton Keynes/Bedford	402.0
Evergreen 3 Project on the Chiltern Line	200.0
Great Western Electrification	2800.0
M1 Junctions 19 to 16: All Lane Running: Smart Motorway	91.4
M1 Old Park Charity Toddington Parapet	1.8
Oxford to Bletchley Electrification	190.0
Woodside Link	20.0
Improving the A413 to enhance connections within the County and to growth areas beyond	20.0
A428 Black Cat to Caxton Gibbet	375.0
A5 Trunk Corridor	3.5
A602 Corridor Strategy - Ware to Stevenage Improvements	15.7
<b>Subtotal Inter-Urban Corridors</b>	<b>4613.5</b>
<b>Subtotal Cambridge - Milton Keynes and Northampton Oxford - Inter Urban Corridors</b>	<b>8483.7</b>
<b>Radial Links to London</b>	
A1(M)HCC transport package A1(M) Growth Area	18.0

London Luton Airport Surface Access	20.0
M40 major Maintenance Junction 6 to 8	200.0
Thameslink Improvements	3550.0
Direct access to Heathrow Airport from Oxford/Didcot	5.0
Hitchin Flyover	47.0
Proposed improvement to Luton Station	10.0
Luton Airport Mass Passenger Transit Scheme	200.0
<b>Subtotal Radial Links to London</b>	<b>4050.0</b>
<b>Cumulative Total</b>	<b>12533.7</b>

## BASELINE SCENARIO

### National Schemes

A14 Cambridge to Huntingdon Improvement Scheme	1200
Electric Spine Development Programme - Oxford to Coventry	208
East-West Rail Link Western SectionPhase 1 Oxford-Bicester	332
East-West Rail Link Western SectionPhase 2 Bicester-Milton Keynes/Bedford	402
Evergreen 3 Project on the Chiltern Line	200
Great Western Electrification	2800
Oxford to Bletchley Electrification	190
A428 Black Cat to Caxton Gibbet	375
Thameslink Improvements	3550
Luton Airport Mass Passenger Transit Scheme	200
M40 major Maintenance Junction 6 to 8	200
HE A34 improvements	800
M1 Junctions 19 to 16: All Lane Running: Smart Motorway	91.4

<b>National Schemes Total</b>	<b>10548.4</b>
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**Other Schemes**

<b>Other Schemes Total</b>	<b>1985.3</b>
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<b>GRAND TOTAL</b>	<b>12533.7</b>
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National Schemes percentage by cost	84%
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Other Schemes percentage by cost	16%
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National Schemes percentage by volume	10.7%
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Other Schemes percentage by volume	89.3%
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<b>Incremental scenario</b>	
<b>Scheme</b>	<b>Cost (£m)</b>
<b>Cambridge</b>	
<b>Baseline schemes Cambridge</b>	<b>1925.4</b>
A10 Royston to Cambridge foot & cycleway	7.0
A505 transport corridor study	0.9
A14/A142 junction improvements	3.5
Ely North junction/Soham upgrade	10.0
Addenbrooke Railway Station	50.0
Kings Lynn Cambridge 8 car Project	50.0
Soham Railway Station	50.0

Ely area rail improvements GRIP 1-5 studies	10.0
Cambourne to Papworth cycleway	10.0
Busway between new town at Waterbeach barracks and north Cambridge	46.0
A10 Waterbeach park and ride	12.0
Improving cycling and walking links between new town at Waterbeach barracks, Cambridge and surrounding villages	12.0
A10 Hauxton park and ride	17.0
Huntingdonshire Growth Capacity Feasibility and Implementation	11.0
Waterbeach railway station relocate to better serve Waterbeach development	50.0
Alconbury station	50.0
Upgrade to high quality bus rapid transit system on A428 (Cambourne) corridor	35.0
Upgrade to high quality bus rapid transit system on western orbital (M11) corridor	25.0
Upgrade to high quality bus rapid transit system on Addenbrooke to Science Park corridor	25.0
<b>Subtotal Cambridge (inclusive of baseline)</b>	<b>2399.8</b>
<b>Milton Keynes - Northampton</b>	
<b>Baseline schemes Milton Keynes - Northampton</b>	<b>178.3</b>
Northampton North-West Relief Road	32.0
Northampton Northern Orbital Route	50.0
A509 Wellingborough Development Link	38.5
Milton Keynes Strategic Roads - enabling growth to 2050 and beyond	20.0
Steeple Claydon potential new station	50.0
Bedford Southern Gateway	5.1
Wixams Rail Station	30.2

Northampton-Wellingborough-Daventry Busway	150.0
Ridgmont Station interchange	8.0
PnR – A45 M1 Junction 15 to Northampton Wellingborough service as well along A45	5.0
Stoke Mandeville Outer Link Road (A413 to B4443)	23.4
Aylesbury NE Link Rd (also submitted to Large Local Transport Majors)	25.0
Grand Union Triangle “Greenways to Growth”	7.2
<b>Subtotal Milton Keynes - Northampton (inclusive of baseline)</b>	<b>622.7</b>
<b>Subtotal Cambridge - Milton Keynes and Northampton</b>	<b>3022.5</b>
<b>Oxford</b>	
<b>Baseline schemes Oxford</b>	<b>1766.4</b>
Oxford Science Transit Scheme	40.0
A34 Technology Enhancements	25.0
Oxford access to EZ	28.8
Oxford Station Redevelopment	75.0
Oxford to Leamington Electrification 'Electric Spine'	208.0
A34 North Oxford	2.1
A40 East to Headington	2.1
A40 into Oxford from West	54.0
A40 North Oxford	10.0
A44 North Oxford	3.5
B4495	2.0
Oxford Ring Road - A40/A34 serving two purposes	2.0
Science Bridge, Didcot & A4130	53.4
Access to Culham Phase 1	15.8
SMART Oxford: Culham City	88.2
Seacourt Park & Ride	2.1
Bicester Charbridge Lane Rail Crossing	17.7
Culham Rail station	13.1
Didcot Northern Perimeter Road Phase 3	12.5
A34 Lodge Hill Junction	31.5
Bicester South East Perimeter Road	28.5
Hanborough station	8.0
Harwell Prime Access Road	29.0
Didcot Parkway Station Package A&B	175.0
Eastern Arc Phase 2 – Access to Cowley	10.4
Connections to Oxford station	13.9
Bicester Active Travel – Cycle and Walking	7.7
Bicester Garden Town Sustainable Transport	
Upgrade of Oxford Science Transit to high quality bus rapid transit system	175.0
<b>Subtotal Oxford (inclusive of baseline)</b>	<b>2900.7</b>
<b>Subtotal Cambridge - Milton Keynes and Northampton - Oxford</b>	<b>5923.2</b>
<b>Inter-Urban Corridors</b>	
<b>Baseline schemes Inter-Urban Corridors</b>	<b>4613.5</b>
East West Rail Link Eastern Section	734.0

East-West Rail Link Central Section (Bedford - Cambridge)	1361.0
M1 to A6 Link Road	50.0
A418 corridor study	375.0
Stevenage First: Stevenage railway station redevelopment - Transformative investment in a new railway station for Stevenage	452.0
Inter-urban links in the Milton Keynes – Northampton – Bedford – Wellingborough area (bus priority / bus-based rapid transit / upgrades to the road network)	50.0
Oxford to Cambridge Expressway	3500.0
<b>Subtotal Inter-Urban Corridors (inclusive of baseline)</b>	<b>11,135.5</b>
<b>Subtotal Cambridge - Milton Keynes and Northampton - Oxford - Inter Urban Corridors</b>	<b>17,058.7</b>
<b>Radial Links to London</b>	
<b>Baseline schemes Radial Links to London</b>	<b>4050.0</b>
West Anglia Mainline Improvement	3550.0
A10 Buntingford - Improvements to the capacity of a roundabout on the A10	1.5
Crossrail 2	32000.0
<b>Subtotal Radial Links (inclusive of baseline)</b>	<b>39601.5</b>
<b>Cumulative Total</b>	<b>56660.2</b>

### INCREMENTAL SCENARIO

#### National Schemes

Oxford to Leamington Electrification 'Electric Spine'	208
East West Rail Link Eastern Section	734
East-West Rail Link Central Section (Bedford - Cambridge)	1361
M1 to A6 Link Road	50
A418 corridor study	375
Oxford to Cambridge Expressway	3500
West Anglia Mainline Improvement	3550
Crossrail 2	32000

**National Schemes Total (including baseline schemes) 52326.4**

#### Other Schemes

**Other Schemes Total (including baseline schemes) 4333.8**

**GRAND TOTAL (including baseline schemes) 56660.2**

National Schemes percentage by cost	92%
Other Schemes percentage by cost	8%
National Schemes percentage by volume	10.9%
Other Schemes percentage by volume	89.1%

**Transformational scenario**

<b>Scheme</b>	<b>Cost (£m)</b>
<b>Cambridge</b>	
<b>Baseline and incremental schemes Cambridge</b>	<b>2399.8</b>
Increased rail service frequency on Cambridge-Cambridge North-Waterbeach, Ely North route	200.0
Upgrade to high capacity tram system on A428 (Cambourne) corridor	150.0
Upgrade to high capacity tram system on western orbital (M11) corridor	100.0
Upgrade to high capacity tram system on Addenbrooke to Science Park corridor	100.0
<b>Subtotal Cambridge (inclusive of incremental)</b>	<b>2949.8</b>
<b>Milton Keynes - Northampton</b>	
<b>Baseline and incremental schemes Milton Keynes - Northampton</b>	<b>622.7</b>
A5/A508/A45 improvements between Mk-N to provide alt route for local traffic off motorway network	20.0
MK Central – Bletchley Transit corridor (fast Bus/Tram link, potential to be suitable for AV/GRT in car as service world).	150.0
Upgrade Northampton-Wellingborough-Daventry busway to high quality bus rapid transit system	200.0
<b>Subtotal Milton Keynes and Northampton (inclusive of incremental)</b>	<b>992.7</b>
<b>Subtotal Cambridge - Milton Keynes and Northampton</b>	<b>3942.5</b>
<b>Oxford</b>	
<b>Baseline and incremental schemes Oxford</b>	<b>2900.7</b>
Oxford transit network – high quality rapid transit system linking Oxford with Bicester (north) and Didcot (south)	250.0
Grove New Station	50.0
<b>Subtotal Oxford (inclusive of incremental)</b>	<b>3200.7</b>
<b>Subtotal Cambridge - Milton Keynes and Northampton - Oxford</b>	<b>7143.2</b>
<b>Inter-Urban Corridors</b>	
<b>Baseline and incremental schemes Inter-Urban Corridors</b>	<b>11,135.5</b>
A34 link to M40 south of Oxford	75.0
A420 improvements	20.0
Direct rail Swindon-Oxford via Didcot	50.0
Cholsey / Oxford Local PT improvements (connect to rail at Cholsey and into Oxford by bus)	15.0
Upgrade East West Rail to four trains per hour metro style service	200.0
<b>Subtotal Inter-Urban Corridors (inclusive of incremental)</b>	<b>11,495.5</b>
<b>Subtotal Cambridge - Milton Keynes and Northampton - Oxford - Inter Urban Corridors</b>	<b>18,638.7</b>
<b>Radial Links to London</b>	
<b>Baseline and incremental schemes Radial Links to London</b>	<b>39601.5</b>
High Speed 2 (HS2) released capacity on West Coast Main Line	55000.0
<b>Subtotal Inter-Urban Corridors (inclusive of incremental)</b>	<b>94601.5</b>
<b>Cumulative Total</b>	<b>113240.2</b>

## TRANSFORMATIONAL SCENARIO

### National Schemes

Increased rail service frequency on Cambridge-Cambridge North-Waterbeach, Ely North route	200
Upgrade East West Rail to four trains per hour metro style service	200
High Speed 2 (HS2) released capacity on West Coast Main Line	55000

**National Schemes Total (including baseline and incremental schemes) 107726.4**

**Other Schemes**

**Other Schemes Total (including baseline and incremental schemes) 5513.8**

**GRAND TOTAL (including baseline and incremental schemes) 113240.2**

National Schemes percentage by cost 95%

Other Schemes percentage by cost 5%

National Schemes percentage by volume 11.6%

Other Schemes percentage by volume 88.4%