

TRANSPORT FOR LONDON

FINANCE AND POLICY COMMITTEE

**SUBJECT: TfL INVESTMENT PROGRAMME REPORT –
FIRST QUARTER 2009/10**

DATE: 9 OCTOBER 2009

1 PURPOSE AND DECISION REQUIRED

- 1.1 The Investment Programme report for the first quarter of 2009/10 (1 April 2009 – 27 June 2009) is attached to inform the Finance and Policy Committee of Transport for London's Investment Programme performance.
- 1.2 This report will be considered by the Board at its meeting on 21 October 2009.

2 RECOMMENDATION

- 2.1 The Committee is asked to NOTE the contents of this report.

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Investment Programme Report

First Quarter, 2009/10

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Transport for London

Investment Programme Report

First Quarter, 2009/10 (1 April 2009 – 27 June 2009)

I. Programme Highlights

The key highlights from the first Quarter of 2009/10 were:

- iBus Roll out to entire fleet completed
- Delta Junction Dive Under commissioned on DLR
- Canning Town Flyover commissioned on DLR
- The Paddington Congestion Relief Project was handed over to Crossrail for detailed design and construction
- Demolition work has begun at Tottenham Court Road Station
- The first modified bogies were fitted to the Central Line fleet

Post Quarter events include:

- The first new train began trials with passengers on the Victoria Line
- The first high capacity fan was commissioned on the Victoria Line Cooling Project
- Class 378 trains in Service on North London Line

Cover picture:

The iBus project completed in the first quarter of 2009/10. The system provides GPS based next-stop and countdown information to bus passengers. In addition, the life-expired legacy radio system which supports the operation of the entire London bus fleet was replaced and upgraded.

2. Projects (over £50m) and Programmes (over £10m per annum)

TfL's Investment Programme contains a range of programmes and projects over £50m, in addition to a range of smaller activities. These are delivered by TfL directly, through our partners in the London Boroughs or through long-term partnerships with the private sector such as the PPP on London Underground and Private Finance Initiatives (PFI).

This report covers discrete projects with a total cost greater than £50m and programmes over £10m per annum. For each project, key milestones are given with a forecast date compared against the March 2009 baseline, and if appropriate, additional milestones from the 2009/10 Budget Deliverables document.

Key to RAG status:

| Status | Discrete Projects | Annualised Programmes |
|--------|----------------------------|-------------------------|
| ● | Within 1 month of target | 100% of target achieved |
| ▲ | Between 1 - 3 month delay | >75% of target achieved |
| ■ | Greater than 3 month delay | <75% of target achieved |

This report focuses on delivery of investment projects. For a discussion on financial performance see the Quarter 1 Operational and Financial Report.

The estimated final cost (EFC) of some of the projects are not included (marked as *) for reasons of commercial confidentiality.

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LU line Upgrade – BCV

| Year to date as at Q1 2009/10 £m | EFC £m |
|----------------------------------|--------|
| 80 | 954 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--|-------------------|--------------------|-----------|
| Start Testing T1/T2 in traffic hours without passengers (V2.1) | 26/01/2009 | 21/07/2009 | Completed |
| Start trialling the new service control centre (signalling control) in passenger hours | 23/03/2009 | 07/09/2009 | Completed |
| Power supply upgrade complete | 16/06/2009 | 16/06/2009 | Completed |
| Start trialling T2 in traffic hours with passengers | 14/10/2009 | 21/07/2009 | ● |
| Full approval to operate production trains on the Victoria line | 27/11/2009 | 17/09/2009 | ● |
| All track works complete | 14/01/2010 | 19/12/2009 | ● |
| Start to control Victoria Line operations from the new service control centre | 15/08/2011 | 15/08/2011 | ● |
| Victoria Line Upgrade programme completion | 07/04/2013 | 07/04/2013 | ● |

*PPP Contract Date

The Victoria line is the first major line upgrade on the Bakerloo, Central and Victoria lines (BCV) network. The works include new rolling stock, signalling, control equipment, depot and track.

Software development progressed during the quarter which enabled the start of train testing on the line. Testing of the first two trains, T1 and T2, during engineering hours began on 5 May against a target of 24 April. The critical milestone to test T1 and T2 in passenger hours without passengers slipped five weeks to 21 July, but Intense signal testing during engineering hours then enabled this to be combined with a single running of T1 with passengers on the same date. As reliability grows, the train will be increasingly used in service and the decommissioning of the first 67 Tube Stock train remains on target for 15 January 2010.

Train production continued and has held to programme since Quarter 4. The first production train (T3) is complete and undergoing full 8-car testing at the Old Dalby Test Track. Delivery of T3 is planned for October. Initial trials of the Service Control Centre identified the need for scope changes, which has put back the full trialling of the centre to September.

Despite these rolling stock and signalling issues, the completion date of May 2012 for the Journey Time Capability (JTC) remains ahead of the PPP contractual date of August 2013.

London Underground

LU line Upgrade – PPP JNP

* Costs included in asset categories

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----|
| Jubilee Line - TBTC Contract - J2/3 Ready for revenue service - Seltrac PM Mode | 06/09/2009 | 15/11/2009 | ▲ |
| Jubille Line - Power Upgrade - power on | 28/09/2009 | 01/09/2009 | ● |
| Jubilee line - J5 - ready for revenue service | 15/04/2010 | 29/12/2009 | ● |
| Northern Line - 50% of trains converted | 31/01/2010 | 01/03/2010 | ▲ |
| Northern Line - full journey time capability | 26/10/2011 | 03/10/2011 | ● |
| Piccadilly line upgrade - select rolling stock supplier | 31/12/2009 | 04/12/2009 | ● |
| Piccadilly line upgrade - contract award | 02/08/2010 | 01/06/2010 | ● |

The PPP contractual date for the Jubilee line upgrade to achieve full journey time capability (JTC) is 31 December 2009. At the start of the quarter, Tube Lines Ltd (TLL) were granted 17 additional closures to support their programme. This included the critical milestone of achieving J23 – the first two sections of the line to be swapped over to the new signalling system – by mid August. TLL's productivity schedule has slipped, and the J23 section is now planned to be combined with the J4 section in November. Since the Quarter, TLL has requested further closures that would impact on planned District Line closures and events at the O2. With further pressure on the TLL schedule, no further closures will be granted until a credible system is received.

For the Northern line, the programme is suffering from the focus of TLL resources on the Jubilee line. The full journey time capability milestone remains targeted at December 2011, but the programme is now considerably compressed. The period of time between the commissioning of the first section (N1) and the final section (N6) is now reduced from twelve to six months.

The conversion of the trains to Transmission Based Train Control (TBTC) is underway. The conversion cycle time has improved from 40 days for T7 to 27 days for T9. A cycle time of 14 days was required to achieve full conversion by September 2010 but with the TBTC signalling slipping, full train conversion is not now needed until December 2010, which is thought achievable.

For the Piccadilly line upgrade, TLL has further revised the programme, putting back the contract award for the new rolling stock fleet a further month to July 2010. The Invitation To Tender was issued on 29 May 2009 and tender returns are expected during September. A programme for the Transmission Base Train Control (TBTC) signalling system has been submitted and is now under review.

London Underground

LU line Upgrade – Sub-Surface Railway

| Year to date as at Q1 2009/10 £m | EFC £m |
|----------------------------------|--------|
| 133 | 3,113 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--|-------------------|--------------------|-----------|
| Old Dalby Test Track - All items in place to enable test track to receive and first test train | 13-Apr-09 | 23-Mar-09 | Completed |
| First pre-production S Stock delivered to Old Dalby | 30-Apr-09 | 26-Feb-09 | Completed |
| Issue ATC invitation to tender | 31-Aug-09 | 16-Jul-09 | Completed |
| Train Delivery - first train delivered to London Depot | 01-Nov-09 | 13-Oct-09 | ● |
| Signalling - Phase 1a immunisation works - operational segment 1 | 26-Nov-09 | 19-Sep-09 | ● |
| First train ready to use on network | 30-Sep-10 | 24-May-10 | ● |
| Start of full infrastructure integration testing | 31-Jul-11 | 16-Dec-11 | ● |
| S Stock migration complete | 31-Jul-15 | 21-Apr-15 | ● |

The Sub-Surface Railway network (consisting of the Circle, District, Hammersmith & City and Metropolitan lines) upgrades will provide new rolling stock, new signalling and a new control centre, in order to increase capacity and reduce journey times. The programme is scheduled to complete by 2018.

The new rolling stock continued testing at the Old Dalby test track. Train integration onto the network has been affected by the additional possessions granted to Tube Lines in the Neasden area on the Jubilee Line. The first train operating in engineering hours has slipped one month from 5 October to 8 November 2009.

Procurement for the new signalling contract is underway and the ITT was issued 17 July as planned with returns expected in December.

Improvement works to the Neasden Depot will need to be reconfigured because the design inherited from Metronet does not provide sufficient space and facilities for the maintenance of the new 8-car S-Stock trains. Revised cost estimates for the work are expected by the end of September 2009.

London Underground

Channel Tunnel Rail Link at King's Cross

| Spend to end Q1 2009/10 £m | EFC £m |
|-------------------------------|--------|
| 804 | 870 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--|-------------------|--------------------|-----------|
| Completion of escalator installation & commissioning | 14/09/2009 | 20/07/2009 | Completed |
| Northern Ticket Hall (NTH) - open to public | 31/12/2009 | 01/12/2009 | ● |
| Completion of Phase II Works (excl post NTH works) | 30/04/2010 | 01/04/2010 | ● |
| Completion of Phase II works (incl post NTH works) | 01/10/2010 | 01/09/2010 | ● |

King's Cross Congestion Relief delivers increased capacity at King's Cross St Pancras. Phase 1 included an expanded Tube ticket hall and new Western Ticket Hall. Phase 2 includes a new Northern Ticket Hall, step-free access and improved links to Northern, Victoria and Piccadilly lines, and the new Channel Tunnel Rail Link Terminal. The King's Cross project is funded by the Department for Transport and contracted by London Underground.

Phase 1 included refurbishment of the Metropolitan and Circle line platforms and was completed on 10 December 2006.

Phase 2 is nearing completion on site and on target for the opening of the Northern Ticket Hall on 1 December 2009. During Quarter 1, the main premises work continued and was completed on 24 July 2009. The fire and communications systems were completed and testing has begun. Five escalators were completed and commissioning was completed on 12 July 2009. The focus now is on the commissioning and handover of all systems in time for the opening.

London Underground

Bond Street Congestion Relief

| Spend to end Q1 2009/10 £m | EFC £m |
|-------------------------------|--------|
| 12.2 | * |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----------|
| Stage D design complete | 30-01-2009 | 31-10-2008 | Completed |
| ITT issued detailed design and construction | 03-08-2009 | 28-10-2009 | ▲ |
| Main contract award | 08-02-2010 | 05-02-2010 | ● |
| Completion | 29-09-2016 | 29-09-2016 | ● |

Bond Street station is a key interchange between the Jubilee and Central lines. Long term demand and congestion is forecast to increase further as a result of growth in employment and leisure travel and the completion of Crossrail in 2017. In addition to congestion problems, the station does not have step-free access. The scheme provides:

- two additional escalators from the interchange level to the Jubilee line;
- a low-level interchange route between the Central and Jubilee lines;
- a new step-free entrance and ticket hall on Marylebone Lane;
- 4 new lifts, allowing step-free access to both Central and Jubilee line platforms, interchange and street levels; and
- A step-free route to the Crossrail station will also be available.

The RIBA Stage D design was completed ahead of plan on 31 October 2008. The invitation to tender documents for the detailed design and construction have been prepared and are ready for issue, subject to approval of the 2010/11 Business Plan. Briefings have been held with contractors who have expressed an interest in the main works contract.

London Underground

Paddington (Hammersmith & City) Congestion Relief

| | |
|----------------------------|--------|
| Spend to end Q1 2009/10 £m | EFC £m |
| 4.4 | * |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----------|
| Stage D (Final Report) sign off | 14-Dec-09 | 15-Sep-09 | ● |
| Outline/Scheme design approved RIBA C/D | 18-Mar-10 | 12-Jun-09 | Completed |
| Completion | 25-Nov-2013 | 18-Aug-2014 | ● |

Paddington (Hammersmith & City line) station is amongst LU's top priorities for congestion relief because of demand growth associated with local area redevelopment and the Sub-Surface line Upgrade. The project seeks to deliver congestion relief and step-free access benefits and ensure the continued safe operation of the station. There are interfaces with Network Rail and Crossrail, who require part of the adjoining "Triangle Site" for a re-located taxi access to the main line station.

The Network Rail, Crossrail and LU project components are now combined into the Paddington Integrated Project with co-located project teams and a joint project steering board.

In Quarter 1, the design was completed to RIBA Stage D and formally handed over to Crossrail for detailed design and construction. Crossrail has now taken responsibility for the delivery of the station box, with the fit-out of the station to be completed by LU. Since the teams relocated, the programme has been re-appraised with resultant time savings. Critical to the Crossrail programme is the delivery of the taxi ramp, which remains on target for March 2011.

Victoria Station Upgrade

| | |
|----------------------------|--------|
| Spend to end Q1 2009/10 £m | EFC £m |
| 54.6 | * |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----|
| Financial approval (main works) | 21/10/2009 | 21/10/2009 | ● |
| Main works contract award | 28/10/2009 | 28/10/2009 | ● |
| Handover sites to main works contractor | 21/04/2010 | 24/02/2010 | ● |
| Finish all works on site | 15/10/2010 | 20/08/2010 | ● |

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| | | | |
|-----------------------|------------|------------|---|
| Delivery into service | 26/06/2017 | 01/05/2017 | ● |
|-----------------------|------------|------------|---|

With 80 million people passing through it each year, Victoria is one of the most congested stations on the Underground network. Temporary station closures are regularly used to manage congestion, particularly during the morning peak. This project will provide a significant increase in passenger circulation space in key congested areas of the station and step-free access from street to platform for the Victoria line.

The Transport and Works Act Order (TWAO) Public Inquiry was completed on 23 January 2009, and the tenders for the main works were returned on 23 December 2008. Further tender pricing was provided by the tenderers for the design of scope changes to accommodate commitments made during the TWAO negotiations. The Secretary of State for Transport has issued his initial Determination including deemed planning consent and the judicial review commenced on 29 July 2009. The final Grant of Powers under the TWAO is expected by November 2009. The main contract award is now ready for award, subject to approval by the TfL Board.

The enabling works have continued to plan, including further utilities diversions and water management works.

Tottenham Court Road Congestion Relief

| Spend to end Q1 2009/10 £m | EFC £m |
|----------------------------|--------|
| 109.9 | * |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---------------------------------------|-------------------|--------------------|-----------|
| Detailed Design RIBA Stage F complete | 30/01/2009 | 26/01/2009 | Completed |
| Start on site demolition | 30/06/2009 | 19/01/2009 | Completed |
| Funding approval for full project | 16/02/2010 | 22/10/2009 | ● |
| Main Construction - tender award | 19/02/2010 | 23/11/2009 | ● |
| Start on Site - main construction | 21/02/2010 | 14/01/2010 | ● |

Tottenham Court Road station is currently operating in excess of its capacity and suffers from significant congestion. Demand at the station is forecast to increase further with Crossrail. The congestion relief scheme includes a new upgraded and enlarged ticket hall, three new entrances, additional escalator access to the Northern line platforms, improved circulation space, step-free access throughout and interchange with Crossrail.

During the quarter, major utilities diversions and demolition works began and the majority of the buildings to be demolished have now had their roofs removed. Traffic management is now in place and the tower crane is operational.

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The London Borough of Camden has made late comments on the design of the proposed roof canopies. Some re-design may be necessary but a satisfactory resolution is expected.

Tender returns for the main works contract were received on 26 July and are being evaluated. Contract award is planned for 23 November 2009 and work on site to begin on 14 January 2010.

Bank Congestion Relief

| Spend to end Q1 2009/10 £m | EFC £m |
|----------------------------|--------|
| 15.2 | * |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--|-------------------|--------------------|-----------|
| Bank Northern LUL review of stage B feasibility Report | 21/06/2009 | 18/05/2009 | Completed |
| Bank Northern FGM Financial approval stage C design | 18/08/2009 | 30/06/2009 | Completed |
| Bank Northern Contract award RIBA C design | 31/03/2010 | 18/09/2009 | ● |

The Bank project consists of two workstreams:

Bank- Walbrook Square aims to provide more convenient access to streets south and south-west of the station, reduce congestion on the Waterloo & City (W&C) line platforms, and provide step-free access to the W&C line. LU will fund the construction of the station box shell which will be delivered by the developer. Thereafter, LU will fit out the station box to complete the new entrance. There is a potential delay to the start of construction due to a change of leasing arrangements for the Legal and General building. Discussions are under way with the owner of the building, Legal and General, but the project is likely to be delayed by at least a year.

Bank Northern Line Congestion Relief aims to relieve current and expected congestion in Bank station, which would lead to increasingly frequent congestion, of the Northern line/DLR area, and station closures. Design work has continued on the preferred option that relocates the southbound running tunnel of the Northern line. This option provides greater benefit, reduced disruption to the service during construction and a reduced overall cost. Further design, to RIBA Stage C+ is now underway.

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Olympics Step-Free Access

| Spend to end Q1 2009/10 £m | EFC £m |
|----------------------------|--------|
| 20.1 | 122 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----------|
| Green Park Start on site | 25/07/2009 | 15/04/2009 | Completed |
| Green Park Delivery into service (as agreed with ODA) | 22/11/2011 | 01/09/2011 | ● |
| Southfields Start on site | 30/07/2009 | 01/06/2009 | Completed |
| Southfields Delivery into Service | 01/10/2010 | 06/08/2010 | ● |

This programme provides step-free access at two stations critical to the Games: Southfields and Green Park.

Southfields – This project provides step-free access from platform to street and is an Olympic Deliverable. The detailed design was completed in March and work began on site in June 2009. Work is currently progressing well, with the planned work during the August closures completed. The station is due to be completed in October 2010.

Green Park – The programme is currently on target to meet the Olympic delivery date. During Quarter 4, negotiations between the Royal Parks, English Heritage and LU concluded that the planning application for the station works should be separated from the cafe works. Subsequently, the Royal Parks have decided not to proceed with the cafe, which removes the objection from English Heritage. In Quarter 1, the pavement canopy on Piccadilly was re-designed and a planning application submitted. Further design work is underway following comments from Westminster City Council and approval is now awaited. Work began on site on 15 April 2009, including survey works, structural monitoring and escalator protection in readiness for the main work to commence.

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Stations Accessibility Works (2010 target)

| Spend to end Q1 2009/10 £m | EFC £m |
|-------------------------------|--------|
| 11.0 | 73.0 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----|
| Amersham SFA Delivery Into Service | 23/12/2010 | 28/10/2010 | ● |
| Greenford SFA Delivery Into Service | 23/12/2010 | 28/10/2010 | ● |
| Newbury Park SFA Delivery Into Service | 23/12/2010 | 28/10/2010 | ● |
| West Kensington SFA Delivery Into Service | 23/12/2010 | 28/10/2010 | ● |
| Osterley SFA Delivery Into Service | 23/12/2010 | 28/10/2010 | ● |
| Kingsbury SFA Delivery Into Service | 31/12/2010 | 05/11/2010 | ● |

These projects will contribute to the 25 per cent 2010 DfT accessibility target. Detailed design is underway on all the stations. Enabling works have begun at Greenford and Newbury Park and Osterley. At Kingsbury, the piling work for the lifts is complete.

Cooling the Tube

| Spend to end Q1 2009/10 £m | EFC £m |
|-------------------------------|--------|
| 102.9 | * |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----------|
| Mid Tunnel Vents Tranche I – Contract Awarded (3x sites) | 29/06/2009 | 27/03/2009 | Completed |
| Evaporative cooling at Charing Cross –report issued | 18/08/2009 | 03/07/2009 | Completed |
| Out of service fans – Phase I fans available for use | 18/08/2009 | 22/07/2009 | ● |
| Mid Tunnel Vents – Drayton Park brought into beneficial use | 07/09/2009 | 12/08/2009 | ● |

This is a long term programme to control ambient temperatures, which are already high, and without intervention could rise as more energy is used within the tunnels to provide the line

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upgrade train service capability. Planned mitigation measures include improved energy efficiency, increased ventilation, and selected station cooling systems.

Due to budgetary pressures, only the works to support the Victoria line Upgrade are being progressed. These comprise refurbishment and upgrading of thirteen mid-tunnel vents. station cooling works at Green Park, Euston, Oxford Circus and Victoria will be halted following the completion of detailed design.

Work is on site for the first two of three tranches of the mid-tunnel ventilation upgrades, which require the removal of the old fans and structural work to the shafts before new (higher capacity) fans are installed. Eight of the upgrades have commenced work on site but there have been delays at two of the sites. The LU project team is working closely with the contractors to mitigate the extent and impact of the delay. The first high capacity fan was brought into use at Drayton Park on 2 August. The detailed design and construction contract was awarded for the 2nd tranche of three fans on 27 March 2009, and work on site has since started on time.

At Green Park, the trial boreholes were completed ahead of programme.

Operational Accommodation (OAIP)

| Spend to end Q1 2009/10 £m | EFC £m |
|-------------------------------|--------|
| 47.1 | 88.8 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--|-------------------|--------------------|-----------|
| Brixton Operations Centre - practical completion | 30/06/2009 | 08/07/2009 | Completed |
| Leytonstone TOM - contract award | 15/09/2009 | 21/07/2009 | Completed |
| High Barnet- New Depot - practical completion | 25/09/2009 | 21/09/2009 | ● |
| Edgware Rd - Construction contract award | 22/11/2009 | 22/11/2009 | ● |
| Harrow on the Hill TCA - 1st Year occupation | 22/01/2010 | 11/12/2009 | ● |

This programme is to improve the condition, ambience, and capacity of staff accommodation.

- Brixton Train Crew accommodation – Work continued during Quarter 1 and was completed on 16 July 2009.
- High Barnet – The main works contract commenced on site on 31 July 2008 and completion is expected on 21 September 2009.
- Leytonstone – the contract was awarded on 21 July 2009.

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Connect and Connect Airwave

| Spend to end Q1 2009/10 £m | EFC £m |
|-------------------------------|--------|
| 115 | * |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----------|
| Tube Lines Video Cut-in - installation complete 1-20 (of 80) | 30/06/2009 | 12/05/2009 | Completed |
| Tube Lines Video Cut-in - present plan for Batch 2,3 and 4 to be delivered into service | 31/07/2009 | 26/06/2009 | Completed |
| Metronet Video Cut-in - installation complete 26-50 (of 100) | 17/08/2009 | 22/05/2009 | Completed |
| Tube Lines Video Cut-in - installation complete 21-40 (of 80) | 28/10/2009 | 21/09/2009 | ● |
| Rationalisation of LUL video circuits - complete | 05/10/2009 | 04/09/2009 | ● |
| Additional Connect Resilience - 2nd Stage 'Quick Wins' (Equipment and Process) | 28/10/2009 | 27/11/2009 | ▲ |

Connect is a 20-year PFI contract to upgrade and maintain the radio and transmission system used on the Underground.

Phase 2 is now underway, which provides increased functionality on the new equipment and improved video capability. The Piccadilly, Circle and District Lines went live on 26 July 2009. Outages on the system have required further work to improve system resilience. A revised resilience strategy is now in place and the technical scope is agreed.

The Connect Airwave project enhances the emergency services' communication system on the Underground by expanding coverage and capacity. The contract was awarded in January 2007 and work has progressed to an accelerated plan. The one hundred and twenty-five stations required are now fully commissioned and in service. Airwave Phase 2, including an extension of coverage to Stratford, has now been agreed with the National Police Information Authority (NPIA). The design and installation for coverage in an additional fifteen tunnels is now being priced by the contractor. Further design work to provide increased capacity at thirty-nine stations has also begun.

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Power Works

| Spend to end Q1 2009/10 £m | EFC £m |
|-------------------------------|--------|
| 167 | * |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----------|
| Jubilee Line - Alaska St, install 22kV cables complete | 23/04/2009 | 15/04/2009 | Completed |
| Jubilee Line - Power On | 28/09/2009 | 18/09/2009 | ● |
| Victoria Line - Overall Completion and power audit | 08/12/2009 | 08/12/2009 | ● |
| SSL - Award Invitation to Tender (Met Line detailed design and build) | 01/03/2009 | 27/03/2009 | Completed |
| SSL - Approval of baseline contractor programme for package 1 | 03/07/2009 | 02/07/2009 | Completed |
| Piccadilly Line - Award contract scoping and development | 18/10/2009 | 18/12/2009 | ● |

The power system upgrade programme will deliver the additional power capacity that is required to support the line upgrades.

The delivery phase of the Victoria line power upgrade remains on programme with overall completion forecast for December 2009. There has been a one month delay to the installation of the high voltage (132kV) cabling to the bulk supply point (BSP) at Manor House, which provides network resilience. This scope provides resilience to the overall network and is now expected to complete in November 2009. Progress remains on target, with the effective power-on achieved in June 2009, in line with the requirements of the line upgrade.

The Sub-Surface power upgrade is progressing from scoping and development to detailed design and build. The design and build for the first two packages (1A and 1B) was awarded on 20 March 2009. Packages 2 and 3 and 5 (substation plant, cabling and switchgear) are being prepared for tender for the design and build phases. The Package 4 detailed design and build (Bulk Supply Point at Griffith House) has received TfL Board approval and contract award is expected in September 2009.

For the Northern line power upgrade, LUL's 630v conceptual design has been formally accepted by TfL. The scope of the power works for the Piccadilly line is now minimal.

On the Jubilee line power upgrade, power-on has slipped from 6 August to 28 September 2009. During Quarter 1, the detailed design was completed and the work to install rectifiers at Alaska Street was completed in April as planned. Further completions at Finchley Road and North Greenwich are on target for September 2009.

For the Piccadilly line power upgrade, options are being developed to maximise the efficiency of the existing infrastructure prior to the development of new scope.

London Underground

2.160 Thameslink

| | |
|-------------------------------|--------|
| Spend to end Q1 2009/10 £m | EFC £m |
| 15.9 | 38.1 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--|-------------------|--------------------|-----------|
| Borough Market - NR commence viaduct works | 03/05/2009 | 06/04/2009 | Completed |
| Blackfriars - Complete protective shield | 14/05/2009 | 17/04/2009 | Completed |
| NR and LU sign Project Implementation agreement | 29/05/2009 | 12/06/2009 | Completed |
| Blackfriars - NR commence main works | 16/06/2009 | 19/05/2009 | Completed |
| Farringdon - NR commence main works | 29/11/2009 | 02/11/2009 | ● |
| Farringdon - NR complete works | 28/01/2012 | 30/09/2011 | ● |
| Blackfriars - NR Deliver Station back into service | 28/01/2012 | 30/09/2011 | ● |

The LU Thameslink Programme safeguards LU assets and manages the interfaces with the Thameslink Project. The key works interfacing with the LU network are at Blackfriars and Farringdon stations.

LU is seeking the finalisation of the Project Implementation Agreement with Thameslink that sets out the formal terms of the work that impacts the LU network. This has been under discussion for some time and subject to month on month slippage. During Quarter 1, LU secured agreement to a Universal Works Letter that allows for works at Farringdon and Blackfriars to continue. Blackfriars Station was closed during the Easter holiday and is now segregated from the operational railway. Work is underway but the 30-month closure is at risk of extending. At Farringdon Station, work has progressed slower than planned, with some closures being cancelled in June.

London Underground

Central Line Bogie Modifications

| Spend to end Q1 2009/10 £m | EFC £m |
|-------------------------------|--------|
| 30.1 | 51.7 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----------|
| Commence manufacture | 28/02/2009 | 05/01/2009 | Completed |
| 48 Frames Delivered to fleet | 02/06/2009 | 29/04/2009 | Completed |
| 960 Frames Delivered to fleet | 13/07/2010 | 11/06/2010 | ● |
| 1420 Frames Delivered to Fleet (Manufacture Complete) | 31/01/2011 | 03/01/2011 | ● |

Following the Chancery Lane incident, this project was instigated to address the issues identified in the Aylward Inquiry. The project comprises the re-design, manufacture and fitting of 1420 new bogie assemblies to the entire Central Line fleet, known as 1992 Stock.

The manufacture of the new bogie frames began in January 2009 and the delivery schedule is on target with 48 frames delivered ahead of target on 29 April 2009 and the plan to deliver 480 frames by 11 December 2009 is on target. The Programme Lift – the 4.5-year maintenance cycle that this project feeds into, began on 6 April. By the end of Quarter 1, 24 bogies have returned to service. The programme rate is expected to improve to a consistent rate of one train per week by the autumn.

Northern Line Segregation

| Spend to end Q1 2009/10 £m | EFC £m |
|-------------------------------|--------|
| 0 | 171.8 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---------------------------------|-------------------|--------------------|-----|
| No milestones have yet been set | | | |

This project provides for the operational segregation of the two line branches north of Kennington. Timetable reliability and train frequency would be improved using a combination of new rolling stock, track modifications and signalling works.

The current schedule is that substantive design work would begin in 2015 and is subject to approval of the 2010/11 TfL Business Plan.

London Underground

Track Renewal BCV/SSR

| Year to date as at Q1 2009/10 £m | EFC £m |
|----------------------------------|--------|
| 35.7 | 919 |

| BCV Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----------|
| Ballasted Track Replacement & reballast - 1,415m achieved | 31/03/2010 | 31/03/2010 | ● |
| Points & Crossings - 5 units achieved | 31/03/2010 | 31/03/2010 | ● |
| Class 1 (Expected trackform life of 40 years) - 2,429m achieved | 31/03/2010 | 31/03/2010 | ● |
| SSR Milestones | Current Plan Date | Actual/F'cast Date | RAG |
| Ballasted Track Replacement & reballast - 18,680m achieved | 31/03/2010 | 31/03/2010 | Completed |
| Points & crossings - 11 units achieved | 31/03/2010 | 31/03/2010 | ● |

Since 2003 the maintenance and renewal of track was a Metronet (MR) responsibility under the PPP contract. When Metronet Rail transferred to Transport for London in May 2008, track maintenance and renewal became the responsibility of LU. In March 2009, a two year extension of the existing contract with Balfour Beatty was granted to maintain the programme objectives and provide sufficient time for a new procurement from March 2011.

During Quarter 1, production was broadly on target, including 4,127m of Ballasted Track Renewal, 2,806m of Deep Tube Reconditioning and 9 points and crossings improvements.

Track Renewal JNP

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--------------------------------|-------------------|--------------------|-----------|
| Tube reconditioning 1,270m | 26/05/2009 | 26/05/2009 | Completed |
| Track replacement 1,000m | 07/09/2009 | 07/09/2009 | ● |
| Workbank 5 - Project close out | 16/10/2010 | 28/07/2010 | ● |

JNP Track is split into Enhanced Track Replacement and Deep Tube Reconditioning. This work is devised, planned and managed by Tube Lines Limited (TLL) and agreed with LU through the Annual Asset Management Plan.

During Quarter 1, the total completed Enhanced Track Replacement was 36,600m against the total annual target of 37,068m.

London Underground

Civils BCV/SSR

| | |
|-------------------------------------|--------|
| Year to date as at Q1 2009/10 £m | EFC £m |
| 9.6 | 648 |

| BCV Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--|-------------------|--------------------|-----------|
| C164-EM2 Northolt to South Ruislip C164 Practical Completion | 08/10/2009 | 05/06/2009 | Completed |
| C156 EM3, 4, 7, 8 & 9 - Perivale to Greenford C156 Practical Completion | 23/05/2010 | 23/03/2010 | ● |
| SSR Milestones | Current Plan Date | Actual/F'cast Date | RAG |
| D164-EM1,2,4,5 East Putney to Southfields D164 Start on Site | 10/07/2009 | 21/07/2009 | Completed |
| D164-EM1,2,4,5 East Putney to Southfields D164 Practical Completion | 20/09/2010 | 20/07/2010 | ● |

Following the integration of Metronet, BCV and SSR structures are jointly managed. The programme comprises a range of improvement and monitoring works to the civils assets on the BCV and SSL networks. It is a two-year rolling work bank that is prioritised annually. The civil engineering assets are grouped and managed in four categories: Bridges & Structures, Earth Structures, Deep Tube Tunnels, and Pumps & Drainage.

The current two-year programme comprises approximately 40 separate remediation projects across the four asset groups. In addition, special or enhanced monitoring of critical assets is being carried out at a number of key locations. The condition of the assets in the programme is generally well known, but the Civils team is working to complete the asset condition database and a Whole Life Cost Model for each of the four asset classes.

Civils JNP

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--|-------------------|--------------------|-----------|
| Earth Structures – complete environmental surveys for remediation sites | 05/06/2009 | 26/05/2009 | Completed |
| P273 Drainage discharge – complete drainage discharge final scope | 20/12/2009 | 20/12/2009 | ● |

The JNP Civils Programme comprises the same scope as the BCV/SSR programme, aimed at maintaining the civils assets to a defined condition. In 2009/10, work is focused on earth structures (embankments) and drainage projects.

London Underground

Four earth structures are planned for the year, with work on site underway at Dollis Hill. Drainage improvement works are planned at 27 locations.

Station Upgrades – BCV/SSR

| Year to date as at Q1 2009/10 £m | EFC £m |
|----------------------------------|--------|
| 41.8 | 1,444 |

| BCV Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----------|
| Oxford Circus Station Modernisation - Delivery into service agreed by LUL | 25/05/2009 | 24/11/2009 | ■ |
| Hainault Station Modernisation - Delivery into service date agreed by LUL | 30/05/2009 | 19/05/2009 | ● |
| Wanstead Station Refurbishment - Start on site | 30/06/2009 | 14/06/2009 | ● |
| Brixton Station Modernisation - Delivery into service date agreed by LUL | 31/01/2010 | 31/01/2010 | ● |
| SSR Milestones | Current Plan Date | Actual/F'cast Date | RAG |
| Aldgate Station Modernisation - Start on site | 16/10/2009 | 29/09/2009 | ● |
| Ladbroke Grove Station Refurbishment - Start on site | 16/10/2009 | 30/09/2009 | ● |
| Sloane Square Station Modernisation - Start on site | 18/11/2009 | 21/10/2009 | ● |
| Earl's Court Station Modernisation - LUL agree delivery into service | 31/12/2009 | 28/08/2009 | Completed |

When Metronet entered into administration in July 2007, there were 26 “live” station projects that these were significantly into their lifecycle of works.

These works proceeded and at the time of the integration of Metronet with LU, four stations were completed. This programme continues the work to complete the stations under way. By the end of Quarter 1, 56 stations had been accepted by Operations as Delivered into Service (DIS). Eight stations are in the construction phase, six of which are planned to complete in 2009/10, including Aldgate East and Oxford Circus.

At Oxford Circus, the DIS is delayed from 25 May 2009 to 12 October 2009 as a result of non-conforming cable installations but the remedial work is now largely complete.

In parallel to the stations upgrades, a programme of Asset Stabilisation is underway. The affordability review completed during 2008 reduced the station modernisation and

London Underground

refurbishment delivery programme which has resulted in 62 stations having their refurbishment delayed beyond 2015. This necessitated a review of the critical assets in all stations that require urgent work to maintain safe operation of the network and to meet legal requirements. The current Asset Stabilisation Programme (ASP) 2009/10 consists of 270 projects on a range of Communications, Electrical, Fire, Mechanical, and Premises assets.

Station Upgrades – JNP

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----------|
| Waterloo Modernisation | 30/05/2009 | 30/05/2009 | Completed |
| Stanmore Enhanced Refurbishment | 30/05/2009 | 01/04/2009 | Completed |
| Edgware Station Enhanced Refurbishment | 03/08/2009 | 15/06/2009 | Completed |
| Bermondsey Station Refurbishment | 25/08/2009 | 27/11/2009 | ▲ |
| Covent Garden Station Modernisation | 09/09/2009 | 06/05/2009 | Completed |
| Oval Station Refurbishment | 27/09/2009 | 31/07/2009 | Completed |
| Clapham Common Station Refurbishment | 07/10/2009 | 31/07/2009 | Completed |
| Southwark Station Refurbishment | 20/10/2009 | 09/10/2009 | ● |
| Green Park Station Modernisation | 23/10/2009 | 23/10/2009 | ● |
| Hatton Cross Station Enhanced Refurbishment | 04/11/2009 | 23/09/2009 | ● |

The JNP Stations programme was devised as part of the PPP contract. The station works are planned in tranches, with Tranche 5 stations due to be completed by 30 May 2009. All of these stations have now been declared as completed by Tube Lines.

In Quarter 1, the scope of the station works on the Jubilee Line Extension was renegotiated with TLL in order to achieve costs savings and facilitate earlier work to Colliers Wood, South Wimbledon and Hounslow East.

London Rail

East London Line Extension

| Spend to end Q1 2009/10 £m | EFC £m |
|-------------------------------|--------|
| 816 | 1,000 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----|
| Complete Crossrail Enabling works at Whitechapel | 30-Jun-09 | 30-Jun-09 | ● |
| Submit TfL approval planning application to LBH & TH to discharge conditions 14/17/19 (noise demonstration) | 10-Apr-09 | 31-Jul-09 | ■ |
| Complete Dalston podium slab | 31-Jul-09 | 31-Jul-09 | ● |
| Establish Infrastructure maintenance depot | 31-Oct-09 | 31-Oct-09 | ● |
| SCADA temporary master station and system commissioned for the 3 TSS sites (A lines only) | 01-May-09 | 17-Jul-09 | ▲ |
| Commission All TSSs Including Hoxton, Shadwell & Canal Junction (for 33kv only) | 04-Jun-09 | 31-Aug-09 | ▲ |
| Test running commences | 31-Jan-10 | 05-Oct-09 | ● |
| East London Line (Phase 1) complete | 30-Jun-10 | 30-Jun-10 | ● |

The upgraded and extended East London Line is planned to open in June 2010 with TfL as the passenger service operator through a joint East London Line / North London Railway concession with London Overground Rail Operations Ltd. This project is an Olympic deliverable.

The Expected Final Cost has increased from by £7m due to a change from a property sale to a leasing option,. The land related to property under a railway arch and the leasing option was considered more appropriate. A lease income stream is generated but does not get allocated to the project finances. The transfer of £54m management contingency and £19m risk to base cost reflects the forecast outcome of the pain/gain share negotiations with the main works contractor.

Several implementation achievements have occurred during this quarter. Continuous track is now in place from south of Dalston Junction to Surrey Quays station; the first energisation of the project was completed with the commissioning of the bulk supply point at Hoxton; and

London Rail

Bombardier has taken occupancy of the rolling stock maintenance building within the New Cross Gate Depot.

Three milestones (Noise conditions in planning application, SCADA at 3 sites and commission of all TSSs) that were expected to be delivered in the first quarter have been delayed to the second quarter. The delay in the planning application is due to additional information and analysis requested by the London Borough of Tower Hamlets. The SCADA and TSSs delay is due to a delay in being able to energise the system, but this is not expected to delay the commencement of test running.

Management has now shifted from design submissions / approvals to technical case completions. These provide assurance to the project that Balfour Beatty Carillion has satisfied the project requirements in design, construction and testing and commissioning. These need to be completed prior to trial operations and targets have been agreed to manage this process. Submissions of these have started slowly with 65 design submissions and 22 construction submissions being achieved versus targets of 100 and 55 respectively. Critical technical cases required for test running have been identified and prioritised.

The project remains on schedule for the June 2010 service commencement.

East London Line Phase 2

| Spend to end Q1 2009/10 £m | EFC £m |
|----------------------------|--------|
| 0 | 75.1 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--|-------------------|--------------------|-----------|
| Technical Advisor Phase 2 Award Contract | 15-May-09 | 15-May-09 | Completed |
| Commence GRIP 5 Design | 05-Oct-09 | 05-Oct-09 | ● |
| Commence Passenger Services | 14-May-12 | 14-May-12 | ● |

East London Line Phase 2 will provide an additional 4 trains per hour on the core East London Line. These trains will run to Clapham Junction via a new chord that leaves the ELL Phase 1 route to the south of Surrey Quays and joins the South London Line to the North of Queens Road (Peckham). Passenger service is scheduled to commence in May 2012.

This project had a provision for £55.3m in the 2009/10 Business Plan, since then the amount of funding from the DfT and a baseline scope has been agreed. The baseline cost of £75m has been approved and the project team are currently forecasting slightly above this.

The contract for Technical Advisor was awarded to Parsons Brinckerhoff on 15 May. Early deliverables are detailed consideration and costing of the option to raise the rail alignment over Surrey Canal Road and outline design consideration for a station at Surrey Canal Road. The next major milestone is the commencement of GRIP 5 Design, due in Q3 2009/10.

Thameslink have now released a high level project programme that will be used to evaluate and plan for potential construction interfaces between the two projects.

London Rail

A request to procure three additional four-car trains for this service was approved at the end of April and exercised with Bombardier.

London Rail Concession Rolling Stock

This programme is delivered under an operating lease. No direct costs are reported.

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----|
| First NLR unit accepted | 30-Apr-09 | 07-Jul-09 | ▲ |
| First Train in Service NLR | 31-May-09 | 15-Jul-09 | ▲ |
| First ELR units delivered for Network Rail track test | 31-Jul-09 | 31-Jul-09 | ● |
| Delivery of NLR fleet | 31-Dec-09 | 31-Dec-09 | ● |
| Delivery of ELR fleet | 31-Mar-10 | 31-Mar-10 | ● |
| First Train in Service ELR | 30-Jun-10 | 30-Jun-10 | ● |

The London Rail Concession Rolling Stock project will provide 216 new vehicles in three-car and four-car formation to be utilised on the North London Railway (NLR) and the East London Railway (ELR). An additional 12 vehicles (3 x 4-car units) have been added to operate the East London Line Phase 2b from Surrey Quays to Clapham Junction. This brings the total order up to 228 vehicles.

By the end of Q1, six North London Line units had been delivered to Willesden depot for commissioning and fault free running and two had completed all tests. Bombardier's programme indicates that the remaining units will be delivered by the end of November.

Commissioning had been delayed by a safety related defect on the sister 377/5 Electrostar fleet which also affected the class 378. Bombardier has implemented a modification and deliveries recommenced.

The technical file confirming compliance with interoperability standards was submitted to the Office of Rail Regulation (ORR) 11 days later than planned but the progressive release of information has allowed the approval period to be compressed. This was approved by the end of the quarter. On July 2, Network Rail issued a passenger certificate which allowed LOROL to operate 3-car class 378 units in passenger service. Acceptance of the first NLR unit slipped from 30 April and was achieved on 7 July. The Mayor unveiled the first unit at a media event on 13 July, which entered service on 29 July.

Production switched from NLR units to ELR units on 1 May as planned. The assembly of the last seven NLR units will switch to another assembly line when this becomes available during Q2. Consequently, these will not be ready for acceptance until December.

Progress on the ELR units was slower than planned. The delay has been accommodated by contingency but the constraint will move to the testing facility, which will have to cope with up to seven units per week during Q2. A separate test line has been established and additional testing staff recruited to accommodate this peak.

London Rail

North London Railway Infrastructure Project

| Spend to end Q1 2009/10 £m | EFC £m |
|----------------------------|--------|
| 41.4 | 240.9 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|-------------------------------|-------------------|--------------------|-----------|
| Commence No. 1 lines blockade | 30-Apr-09 | 30-Apr-09 | Completed |
| Commence all lines blockade | 31-Dec-09 | 31-Dec-09 | ● |
| Project completion | 31-Jan-11 | 31-Jan-11 | ● |

The North London Railway Infrastructure Project covers a programme of track, signalling and civil infrastructure enhancements to facilitate the operation of the future London Overground service commitment, which is to be introduced in January 2011.

The commencement of the number 1 lines blockade was achieved on schedule on 30 April.

Stage 1 of the Network Rail (NR) signalling enabling works was successfully commissioned during a possession on 20 April and Stage 2 was successfully commissioned during a possession on 24 May. Stage 3 of the works scheduled for 20/21 June 2009 was cancelled due to the safety verification not being obtained from NR in time. The work was rescheduled for late July.

Demolition of Dalston Junction Bridge deck replacement was put on hold and Balfour Beatty Carillion revised the temporary works design after the existing deck condition was found to be different to the contractor's expectations. This has since progressed.

All detailed design for the original scope of the Dalston Western Curve civil engineering works contract is now complete and approved. Birse Metro progressed works for the Dalston Lane covered way to mitigate the delays experienced by Balfour Beatty Carillion on the bridge works.

Carillion has undertaken a number of value engineering exercises across the work packages to identify potential time and cost savings. Design for the NR works packages continued in the quarter and considerable effort was put into incorporating changes to station designs to reflect value engineering initiatives, the outcomes of reviews with the fire officer and other changes.

London Rail

DLR 3 Car Infrastructure

| | |
|-------------------------------|--------|
| Spend to end Q1 2009/10 £m | EFC £m |
| 247 | 335 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----|
| P7 Complete installation of new LUL compound and road | 30-Jun-09 | 25-Sep-09 | ▲ |
| Complete Westferry Station (3 Car Package 1 Works) | 31-Jul-09 | 04-Sep-09 | ▲ |
| Complete New South Quay Station (3 Car Package 1 Works) | 30-Sep-09 | 30-Sep-09 | ● |
| P1 Construction work complete (3 Car Package 1 Works) | 31-Jan-10 | 31-Jan-10 | ● |
| Bank Lewisham: service operational | 28-Feb-10 | 30-Jan-10 | ● |

This project will deliver the structural works necessary for 3 car operation on the DLR. This includes platform extensions, track realignment and viaduct strengthening. The project includes 3 car works on the Bank – Lewisham section, Delta Junction, the Poplar – Stratford Route, Poplar – Woolwich, Tower Gateway, Olympic Station capacity (East Route) and West Route resilience.

Two milestones have slipped in this quarter. The Package 7 installation of the new London Underground compound and road at Canning Town has been delayed by three months to the end of September as other more critical work has been prioritised. The completion of Westferry Station has been delayed by five weeks to early September due to problems with steelwork design and fabrication. This has been exacerbated by some earlier problems with c2c on agreements with the Limehouse Link Bridge.

The Package 5 works at Delta Junction were completed and the dive under was commissioned during the possession which took place on 10 May.

On Package 7 at Canning Town the nine day blockade was followed by the successful commissioning and entry into service of the new flyover on 1 June, one day earlier than planned. Productivity during the blockade was within planned targets and a significant amount of work that was not within the planned scope was successfully completed.

On the North Route, Blackwall and East India, the package 3 elements are expected to be complete by the end of August and package 4 by the end of September.

London Rail

DLR Stratford International Extension

| Spend to end Q1 2009/10 £m | EFC £m |
|----------------------------|--------|
| 123 | 197.7 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----|
| Complete decommissioning at Abbey Road | 25-Apr-09 | 25-Jul-09 | ■ |
| Network Rail Infrastructure Decommissioned (SIE Package 8 Works) | 30-Jun-09 | 19-Jul-09 | ▲ |
| Star Lane Station construction work complete (SIE Package 6 Works) | 31-Oct-09 | 13-Nov-09 | ▲ |
| Canning Town Station Construction Work Complete (SIE Package 6 Works) | 30-Nov-09 | 14-Dec-09 | ▲ |
| Complete Works Package 6 - Conversion of NLL to DLR | 30-Jun-10 | 30-Jun-10 | ● |
| Service operational | 31-Jul-10 | 31-Jul-10 | ● |

This project covers the extension of the DLR from Canning Town to Stratford International, using the existing North London Line alignment as far as Stratford Regional Station.

The release of the high level platforms to Network Rail during this period has enabled work to start on the ex-North London Line low level platforms at Stratford.

Several milestones have slipped in this quarter. The decommissioning of Network Rail infrastructure was delayed by three weeks as Network Rail felt that they had not been adequately briefed by the contractors. The NR Electricity Control Centre terminated the possession after it had started. Initial discussions indicated a revised possession for the August Bank Holiday but this was successfully re-scheduled for the end of June with an additional possession in mid July due to potential knock on implications for other work packages. The completion of decommissioning of 11kv cables at Abbey Road has been delayed by three months to the end of July. This is as a result of the power switchover problems mentioned above.

The Star Lane and Canning Town construction works milestones have been delayed by two weeks as a result of knock on effects from the power works above.

The service operational date remains at the end of July 2010.

London Rail

DLR Railcars

| | |
|-------------------------------|--------|
| Spend to end Q1 2009/10 £m | EFC £m |
| 73.2 | 108.9 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--|-------------------|--------------------|-----|
| 3-Car Woolwich Arsenal - All (24) Railcars accepted into service | 31-Oct-09 | 10-Jul-09 | ● |
| Games additional capacity - First railcar delivered | 14-Dec-09 | 16-Sep-09 | ● |
| Games additional capacity - Final railcar delivered | 31-Aug-10 | 23-Aug-10 | ● |
| Games additional capacity - All cars in service | 31-Oct-10 | 04-Oct-10 | ● |
| Stratford International Extension - Final railcar delivered | 30-Nov-09 | 02-Sep-09 | ● |
| Stratford International Extension - All (9) Railcars accepted into service | 31-Dec-09 | 05-Oct-09 | ● |

This project covers the provision of twenty-four extra DLR railcars for 3-car operation and the Woolwich Arsenal extension, nine for the Stratford International extension and twenty-two for the Games.

By the end of Q1, 29 vehicles had been delivered to Beckton depot and taking over Certificates have been issued on 23. Delivery and commissioning of new vehicles continues in accordance with the agreed programme and eight more vehicles are in various stages of production in Bautzen.

Production and delivery are continuing well and milestones are forecast to be achieved early.

Surface Transport

iBus

| Spend to end Q1 2009/10 £m | EFC £m |
|-------------------------------|--------|
| 76.9 | 81.7 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--|-------------------|--------------------|-----------|
| All vehicles in fleet installed with iBus. | 30-Apr-09 | 21-Apr-09 | Completed |
| Final Acceptance milestone for iBus | 29-May-09 | 09-Jul-09 | ▲ |
| Old system decommissioned and all operations transferred to new system | 30-Jun-09 | 30-Jun-09 | ● |
| Legacy radio system turned off | 31-Aug-09 | 20-Jul-09 | ● |

The iBus project is to procure and implement a radio communication and Automatic Vehicle Location system. This will improve quality of information to customers, both on-bus (through audio-visual next stop information) and at bus stops, and reduce the current risk of a system failure.

During this quarter, all vehicles in the fleet and all garages were fitted with the iBus system. In the next quarter it is expected that the remaining milestones will be completed as the project moves towards close out. Final acceptance occurred in early July, which was slightly later than expected as residual tasks were completed and a period of stabilisation had been inserted. The old system was decommissioned as expected at the end of June and the legacy radio system was turned off five weeks earlier than expected at the end of July.

Any delay to the residual milestones will not affect the operational performance of the iBus system.

Surface Transport

Congestion Charging Re-Let

| | |
|-------------------------------|--------|
| Spend to end Q1 2009/10 £m | EFC £m |
| 75.0 | 94.4 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----------|
| e-pay rebranding decision made | 03-Apr-09 | 03-Apr-09 | Completed |
| System Integration Testing starts | 01-Jun-09 | 26-May-09 | Completed |
| Public Information campaign for Retail starts | 01-Sep-09 | 01-Sep-09 | ● |
| Ready for Service Testing starts | 21-Sep-09 | 21-Sep-09 | ● |
| Readiness Review | 30-Sep-09 | 30-Sep-09 | ● |
| Release 1 - go live of new system for Congestion Charging and Low Emission Zone | 30-Nov-09 | 30-Nov-09 | ● |
| Release 2 - go live of account-based charging | 01-Nov-10 | 01-Nov-10 | ● |

The Congestion Charging Re-Let project is to establish new contracts for the operation of the zone and to operate the Low Emission Zone. The re-let will allow the introduction of customer accounts and new detection technology to facilitate more flexible charging options.

Two milestones were achieved during this period. A new e-pay logo was agreed with the Programme board in the first week of April. Despite earlier concerns, the Systems Integration testing started slightly ahead of schedule at the end of May and a comprehensive programme is in place to complete this. IBM commenced third party supplier Systems Integration Testing with e-pay, Siemens and the Bailiffs and continues to mitigate the impact of any delays from the Systems Integration Testing phase.

The next milestone was the start of the public information campaign, which began on 14 September.

Surface Transport

2.530 TLRN Capital Renewal

This is an 'annualised programme', where minor schemes are delivered on a rolling basis. Costs are based on an annual budget.

| Capital Renewals Programme | | £ 000's |
|----------------------------|--|---------|
| YTD Actuals | | 6,486 |
| Full Year Budget | | 36,676 |
| Full Year Forecast | | 35,651 |
| Variance to budget | | (1,025) |

| Description | Units | 2009/10 Target | Q1 Forecast | Achieved to Date |
|--|----------------|----------------|-------------|------------------|
| Area of carriageway resurfaced | m ² | 255,000 | 255,000 | 34,907 |
| Area of footways resurfaced | m ² | 60,000 | 60,000 | 5,487 |
| Number of lighting units replaced | No. | 1,000 | 700 | - |
| Number of schemes to achieve a reduction in the total number of structures with special measures | No. | 32 | 32 | - |
| Removal of pedestrian guard railing | Km | 35 | 35 | 1.14 |

The Transport for London Road Network (TLRN) Capital Renewal Programme involves the reconstruction and resurfacing of carriageways and footpaths to improve their condition and safety, and the renewal, upgrading and improvements to bridges, tunnels, lighting and other equipment.

By the end of Q1, 35,000m² of carriageway had been resurfaced, which represents 14% of the annual target. 5,487m² of footway had been resurfaced, which represents 9% of the annual target and 1.14km of pedestrian guardrail had been removed, which represents 3% of the annual target. The target for the number of lighting units to be replaced has fallen from 1000 to 700 and is expected to fall further in line with budget reductions. The forecast spend has been reduced by £1m over three years as a result.

An even delivery profile is not being followed and the project team state that they are ahead of their targets – this will mean that a significant ramp up in delivery will be necessary approaching year end.

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A406 Bounds Green

| | |
|-------------------------------|--------|
| Spend to end Q1 2009/10 £m | EFC £m |
| 10.2 | 69.0 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----------|
| Commence advance statutory utilities work | 05-Jan-09 | 05-Jan-09 | Completed |
| Commence contract procurement | 01-Jun-09 | 15-May-09 | Completed |
| Award contract | 28-Feb-10 | 28-Feb-10 | ● |
| Commence main works | 29-Mar-10 | 29-Mar-10 | ● |
| Completion of main works | 03-May-12 | 03-May-12 | ● |

The section of the A406 between Bounds Green Road and Green Lanes suffers from congestion and has a poor accident record. Much of the adjoining property was acquired under blight and is now under TfL ownership.

The scheme has been designed to address the high level of personal injury accidents in the area and the poor quality local environment. The project will create a predominantly two-lane dual carriageway with improved traffic flows at junctions, improved pedestrian crossing facilities, a dedicated cycleway, improved bus journey reliability, and improvements to the local street scene.

The project is in the procurement phase, which commenced two weeks ahead of schedule in May 2009. Advanced demolition contracts were invited during this quarter and returned in mid-June. The preparation of the main works contract is progressing well and tenders were invited in early September. The next major milestone is expected to be the award of contract in February 2010.

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Blackwall Tunnel Northbound Refurbishment

| Spend to end Q1 2009/10 £m | EFC £m |
|----------------------------|--------|
| 4.2 | 60.0 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---------------------------------------|-------------------|--------------------|-----|
| Award Contract | 29-May-09 | 09-Nov-09 | ■ |
| Start of Main Works | 30-Jun-09 | 23-Nov-09 | ■ |
| Revised procurement strategy approved | 30-Jun-09 | 30-Jun-09 | ● |
| Construction complete | 21-Jun-11 | 21-Nov-11 | ■ |

This project will bring the Northbound tunnel to European best practice standards. Work includes: shaft alterations, ventilation upgrades, lighting, drainage, signage and public address system works and upgrades to the emergency points and fire detection and fighting systems.

The project is expected to be delivered during night time and occasional weekend possessions, which means that there is unlikely to be any problems during the Olympics as work can cease for that period if necessary.

This project is expected to return to Finance and Policy Committee for authority later in the year.

Cycle Hire

| Spend to end Q1 2009/10 £m | EFC £m |
|----------------------------|--------|
| 2.6 | 189.4 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---------------------------------|-------------------|--------------------|-----------|
| ITT published | 31-Mar-09 | 04-Mar-09 | Completed |
| Contract Award | 30-Jun-09 | 10-Aug-09 | ▲ |
| Planning Applications Submitted | 20-Nov-09 | 20-Nov-09 | ● |
| Go Live #1 - Website | 31-Mar-10 | 31-Mar-10 | ● |
| Go Live #2 - On Street | 31-May-10 | 31-May-10 | ● |

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The Cycle Hire scheme will deliver 6,000 cycles in central London by May 2010. 400 docking stations will be introduced, which equates to 9 docking stations per square kilometre. Benefits of the scheme are that it will improve modal shift towards cycle use in central London, and will reduce congestion on existing public transport services in the area. Health benefits will accrue to users and ambience improvements will occur in the vicinity of the docking stations.

The ITT was published ahead of schedule in early March. The next major milestone is the contract award, which has been delayed by six weeks as a result of clarification meetings with bidders. Submissions have been received in excess of the expected budgetary provision. The estimated final cost has been reviewed following tender re-evaluation and stands at £256m.

Cycle Superhighways

| Spend to end Q1 2009/10 £m | EFC £m |
|-------------------------------|--------|
| 0.1 | 163.4 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----|
| Route 3 - Completion of definition of route & measures | 16-Jul-09 | 16-Jul-09 | ● |
| Route 3 - Completion of Preliminary design and NAT scheme approval | 02-Oct-09 | 02-Oct-09 | ● |
| Route 7 - Completion of Preliminary design and NAT scheme approval | 19-Oct-09 | 19-Oct-09 | ● |
| Commence construction of 2 Cycle Highways to be delivered in May 2010 | 30-Oct-09 | 30-Oct-09 | ● |
| Route 7 - Construction end | 28-May-10 | 28-May-10 | ● |
| Route 3 - Construction end | 28-May-10 | 28-May-10 | ● |

The Cycle Superhighways scheme will deliver 12 radial routes into central London. The pilot project is to deliver the first two routes – Routes 3 and 7 by May 2010. Extensive monitoring is in place to assess the effectiveness of some of the interventions proposed. The remaining ten routes will be delivered in a separate project by 2012. The project objective is to encourage modal shift to cycles and to enhance the cycling experience for current users by creating wider lanes, improved surfacing and further segregation.

The first two routes are to be delivered using the Highways and Maintenance Works Contractors (HMWC) framework agreement that provides resources to deliver streets schemes in Surface Transport. Using the HMWC framework remains a risk as resources become stretched and competing delivery demands are faced. The procurement process for the remaining routes has not yet been decided.

Route 3 Definition of Route and Measures was delivered, two weeks later than expected, at the end of July.

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The timeline remains tight for the first two routes and it is expected that smarter travel measures, junction works and all innovative design requiring DfT approval may have to be delivered beyond May 2010. The largest risk remains the delivery schedule for the first two routes, including a challenging design and build programme and works being carried out by utility companies.

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IM Strategic Investment Programme

| Spend to end Q1 2009/10 £m | EFC £m |
|----------------------------|--------|
| 42.4 | 152.3 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|---|-------------------|--------------------|-----|
| End User Computing – 14,000 users and 10,600 units migrated | 30/11/2009 | 30/11/2009 | ● |
| Voice and Data Network – Core migration from LAN to MAN completed | 31/10/2009 | 31/10/2009 | ● |
| Data Centre 2 Operational readiness | 14/09/2009 | 14/09/2009 | ● |
| Data Centre 1 Operational readiness | 31/12/2010 | 31/12/2010 | ● |
| Migration of Fujitsu Systems to DC2 hosting | 31/03/2010 | 31/03/2010 | ● |
| Application Portfolio Management – Database delivered | 30/09/2009 | 30/09/2009 | ● |

The IM Strategic Investment Programme is a programme of works to update TfL's IM infrastructure. There are six work streams:

End User Computing (EUC) – replaces several separate Domain Servers with one single Domain across the company. Microsoft Office 1997 is also updated to the latest version and many desktop computers are replaced with thin client terminals working off a central mainframe computer.

By the end of the first quarter 7,294 users (50%) and 8,551 units (81%) were migrated. The final rollout to London Underground Lines and Stations is due to be complete at the end of November 2009.

Voice and Data Network (VDN) – provides a highly available, fault tolerant, integrated and secured voice and data network. This is in effect the telephone and data cabling between sites to be known as the Metropolitan Area Network (MAN). There are three phases. Phase 1 addresses known performance and reliability issues with the current infrastructure and analysis work; Phase 2 introduces a TfL wide approach to procuring and running network services; and Phase 3 removes redundant and overly complex technical and commercial arrangements.

By the end of the first quarter, the majority of audit and migration planning work had taken place and a migration schedule was constructed on 3 July. The new MAN was built and testing occurred and the transition to Fujitsu was completed on 8 May. Beyond Q1, 17 buildings had been migrated to the new MAN by 13 September. The next major milestone is the core migration completion at the end of October.

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Data Centre (DC) – is to provide a dedicated and highly resilient data centre and to decommission most of the existing computer rooms. A new Data Centre located in Woking was operationally ready beyond Q1 on 14 September.

During the first quarter of 2009/10 the cabinets fit out of DC2 was completed to programme and the fit out of power supplies, the internal cabling and hardware continued.

Hosting (HOS) – is to consolidate and rationalise 80% of the TfL server estate into the new strategic Data Centres and migrate externally hosted applications in house. Applications include Journey Planner, Fujitsu systems and Service and Operations.

During the first quarter of 2009/10 the Build and Test phase of the Journey Planner migration took place. The migration phase then commenced and four failures to migrate occurred. In order to ensure smoother migrations, monitoring tools will be implemented and operational support structures will be strengthened before Journey Planner will be migrated. This is now expected to migrate in January 2010. The Plan and Build phase for the Fujitsu systems continued throughout the quarter and was completed at the end of June. Migration is expected to be complete by the end of March 2010.

Enterprise Management (EMT) – This small project delivered backup and monitoring capability that has now been transferred to the Hosting work stream. Detailed design of the backup facility and the pilot migration occurred during Quarter 1 and designs were complete on the monitoring network tool. There is no future activity for this work stream.

Application Portfolio Management (APM) – is a small work stream to reduce the cost of software applications. Objectives are to rationalise applications, software licences and improve management of these items. The work stream will deliver a database containing application spend and this will enable more effective licence management. This work stream is expected to complete the database in September 2009, which will be transferred from the Project to Business As Usual management.

ITSO

| Spend to end Q1 2009/10 £m | EFC £m |
|----------------------------|--------|
| 0.5 | 56.0 |

| Milestones | Current Plan Date | Actual/F'cast Date | RAG |
|--|-------------------|--------------------|-----------|
| Agree scope and funding with DfT | 31-Jan-09 | 28-May-09 | Completed |
| Completion of changes to back-office systems | 30-Apr-11 | 31-May-11 | ▲ |
| Completion of project | 31-Jul-11 | 31-Aug-11 | ▲ |

ITSO (Integrated Transport Smartcard Organisation) is the name of the smartcard specification being mandated by the Department for Transport (DfT) for rail franchises and for the national bus concessionary scheme. Enabling the acceptance of ITSO specified tickets requires changes to TfL's ticketing systems, including a card reader capable of reading both Oyster and

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ITSO tickets, establishment of a head office processing system (HOPS), new or upgraded communications links and other system changes.

The Expected Final Cost for the project is £56m, funded by the DfT as per an agreement between them and TfL dated 28 May 2009.

This agreement over the scope and funding was reached four months later than expected. The other milestones of the completion of changes to the back office system and completion of the project have currently slipped by one month to the end of May and August 2011 respectively.

A contract variation for the long lead time items required has been issued to Transys.

Boroughs Programme

| Boroughs Programme | £ 000's |
|---------------------------|----------------|
| YTD Actuals | 17,845 |
| Full Year Budget | 155,797 |
| Full Year Forecast | 155,518 |
| Variance | 279 |

The Borough Partnership Investment Programme is a way of funding transport improvements in the Boroughs and includes £156m funding in the present financial year. Improvements are split into a variety of work streams such as Road Safety, Road Maintenance, Streets for People, and Cycling. There are 21 active streams of work – the largest in this financial year is Road Safety at £30m but there are several significantly less than this including £5.4m for Town Centres, and £3.6m for Station Access.

Individual scheme requests for funding are currently loaded onto the Local Implementation Plan (LIP) portal and approved by TfL before the money is released. The process is to be modified for 2010/11 and the Boroughs will be given more authority to switch money between areas to meet local need.