

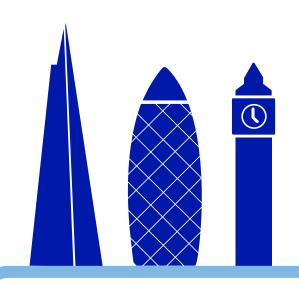
OCT 2017

Evolution of Cycling in London

Korak van Tuyl Design Manager – TfL Outcomes Delivery



- History
- Key Dates
- Off-Street Trials
- Cycle Superhighways
- On Street Monitoring





Cycling in London - Dates

- May 2000 Mayor of London
- Feb 2004 London Cycle Action Plan launched
 - Target for LCN+ 900km of cycle by 2009/10
- June 2005 London Cycle Design Standard launched
- June 2007 Tour de France starts in London
- July 2010 Cycle Hire launched











London Cycle Network

Director of Emironmental Services, Royal Borough of Kingston upon Thames Guildhall 2 Kingston upon Thames Surrey KT1 IEU Tol: 0181 547 5907 Fax: 0181 547 5926

with the assistance of Royal Borough of Kensingston and Chelses on behalf of the London Cycle Network Steering Group © March 1998

Graphic design by Urban Initiatives



DESIGN MANUAL







Cycle Super Highways – Key dates

- July 2010 CS3 and CS7 opened
- July 2011 CS2 and CS8 opened
- Dec 2012 Better Junctions programme launched
 - 33 junctions with high pedestrian & cycle collisions
- Jan 2013 OFF STREET TRIALS started
- Aug 2013 Extension to CS2 (segregated tracks)



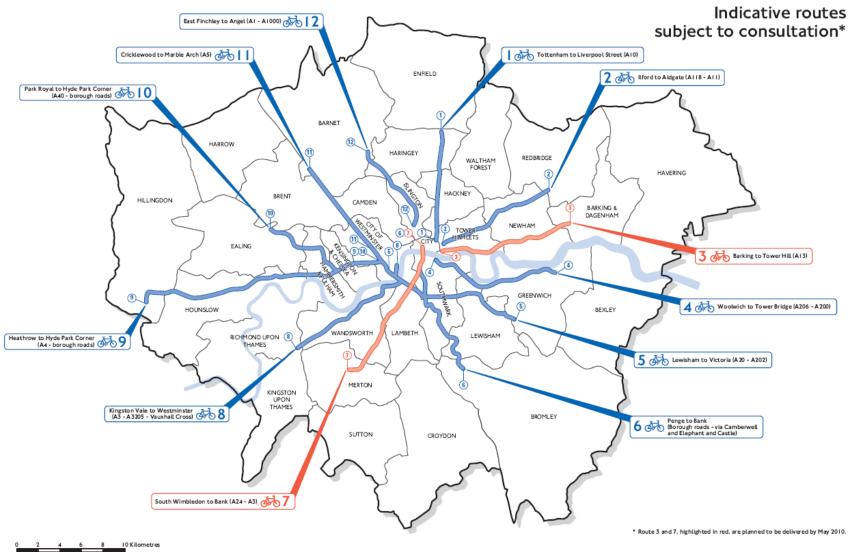








Cycle Superhighways



Change in Cycle Design

Off-Street Trials

Adapt European designs to UK Lobby to change UK regulations On street roll-out

Learning from Others

City Visits (Europe and North America)
International Benchmarking Study





• Set back of segregation



Road Markings

Segregation methods



• Types of segregation





Early release



All Road Users

- Behaviour
- Understanding

Traffic Signals











• Capacity of Island

Bus Stop Bypass



 Pedestrian / Cycle interactions



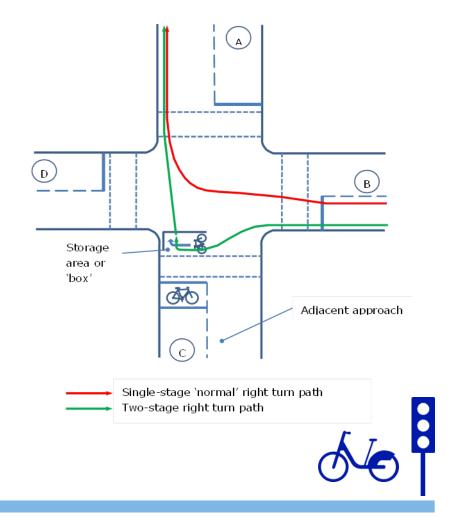


TWO STAGE RIGHT TURN





Two Stage Right Turn



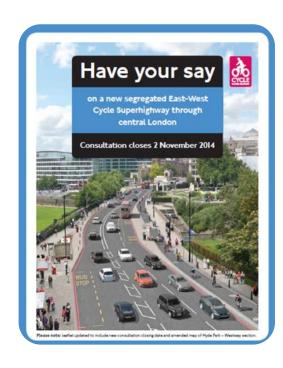


Changes – 2015 was a big Year

One of the largest consultations TfL has carried out:

- Over 100 stakeholder meetings
- Over 230,000 leaflets sent
- Over 2 million emails
- Over 30,000 responses



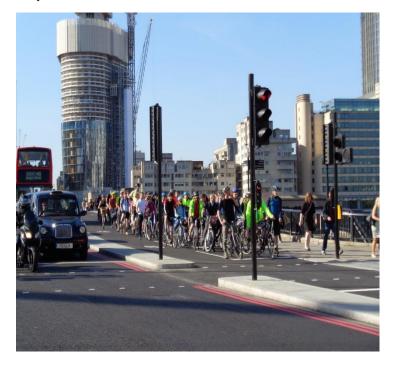




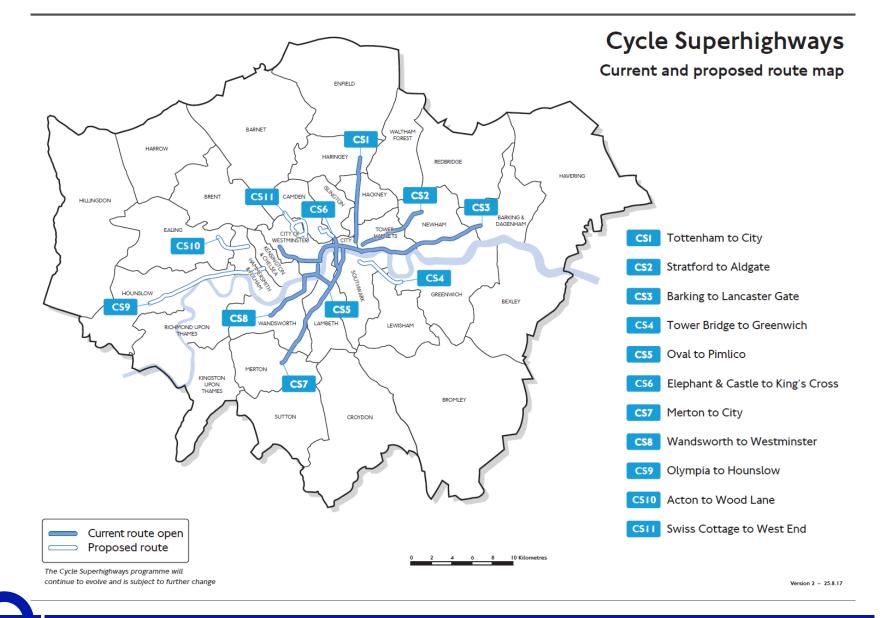


Cycle Super Highways – Key dates

- Nov 2015 CS5 opened
- Apr 2016 CS2 upgrade completed
- May 2016 East west (CS3) / North South (CS6) opened
- May 2016 Quietway 1 opened
- May 2016 CS1- inner sections opened
- Aug 2017 Quietway 2 part opened
- Oct 2017 CS9 Consultation underway







Cycle Super Highway - philosophy

Safer

Provide a consistently segregated route for cyclists

Direct and fast:

 a high quality route has been introduced on a key strategic corridor through the heart of central London.

High-capacity:

Cycle track been designed to cater for future increases in cycle flow.

Continuous and visible:

clearly identify the route and help wayfinding.

Innovative:

new facilities, techniques and cycle specific features

Comfortable:

new high quality road surfacing, and a cycle maintenance strategy is in place



Reallocating Road Space

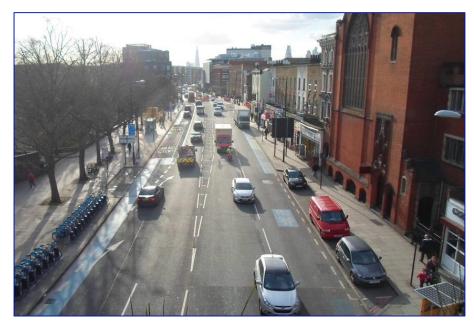




CS3 East -West



Reallocating Road Space





CS2 Upgrade



Reallocating Road Space

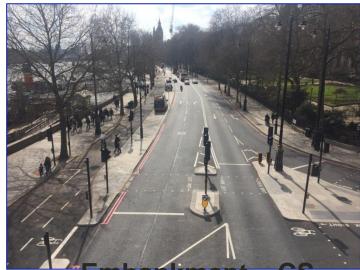




CS2 Upgrade



Junction Improvements



Embankment – CS



Vauxhall - CS5









Links – Segregated Tracks



Bi-Directional Tracks on CS E-



Wanded Tracks on CS2U



Hybrid (stepped)
Track on CS7





Links – Bus Stop Bypass



Oval (CS7)



CS NI-



CS2 Upgrade





Links – Loading & Parking



Pad Loading on CS N-S



Floating Loading on CS2U



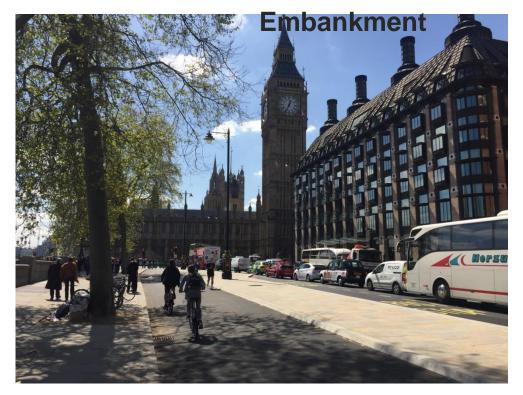
Motorcycle Parking
On CS E-W





Completed Routes

CS3 Victoria











Quietways

In his Vision the Mayor declared that Quietways would be:

- Direct
- Clearly signed
- Better surfaced
- Designed as whole routes not piecemeal
- Segregated from motor traffic where they briefly join busy roads
- Make use of 'filtered permeability' that restricts through motor traffic
- Make use of greenways: parks and waterways
- Include new bridges where required

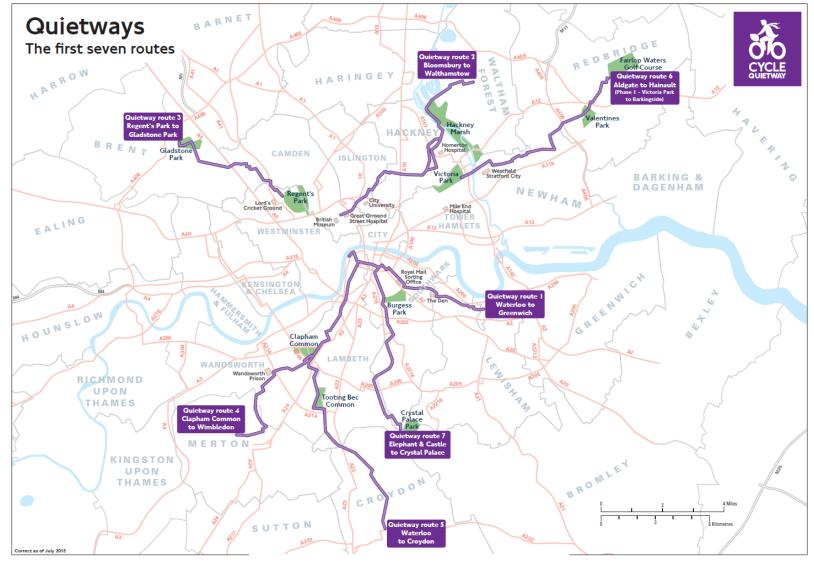










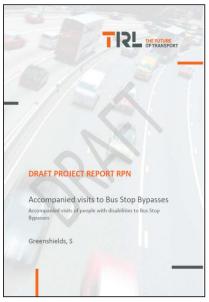


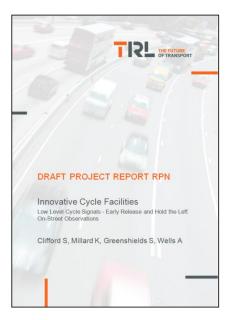




On street monitoring









Undertaken by external agencies

Number of locations monitored:

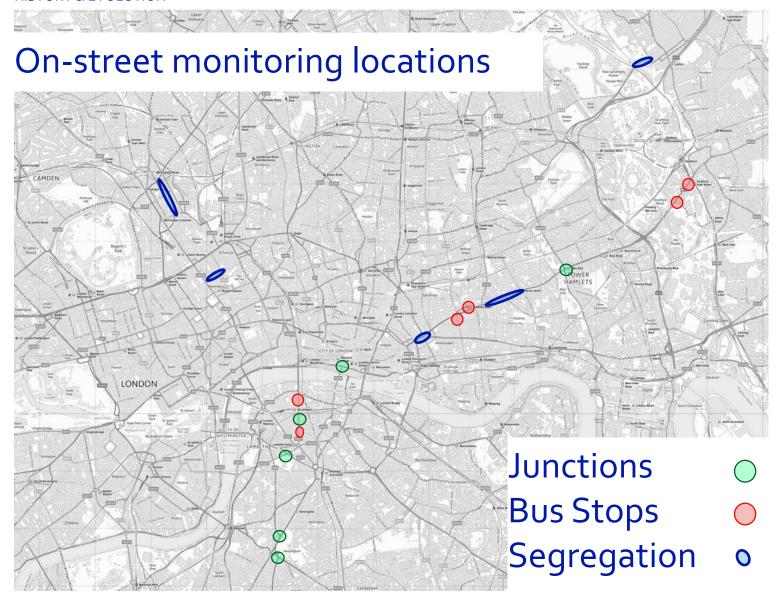
Videos surveys

Cycle counts

Questionnaires – cyclists and pedestrians

Guided walks for lesser abled (sight and mobility impaired)







Segregated tracks



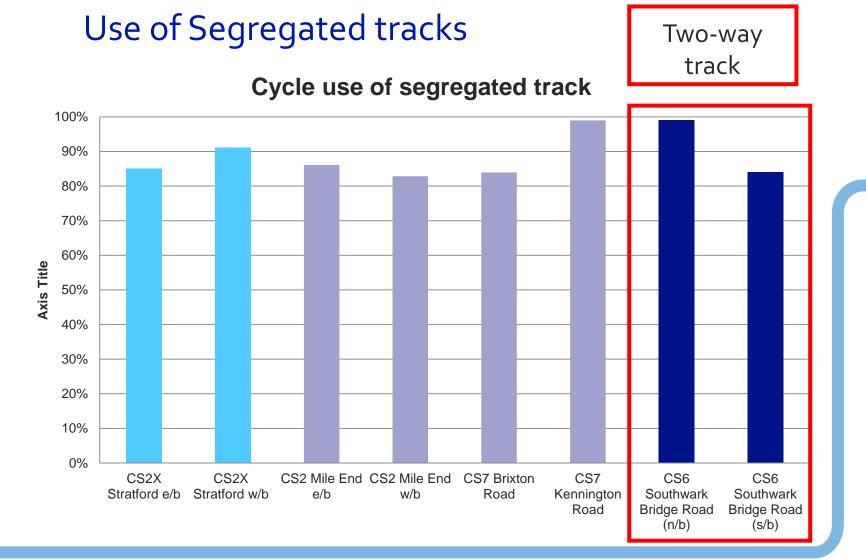














Early Release





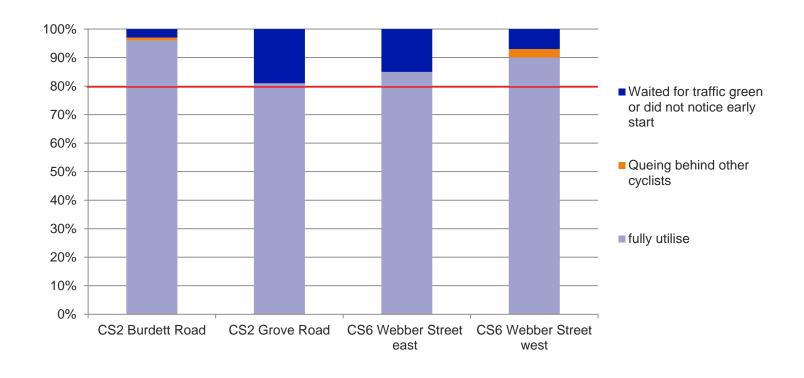


Cambridge Heath Road – 4 seconds early release for cyclists





Early Release – On Street Cyclists Behaviour





High volume routes – 2016 monitoring

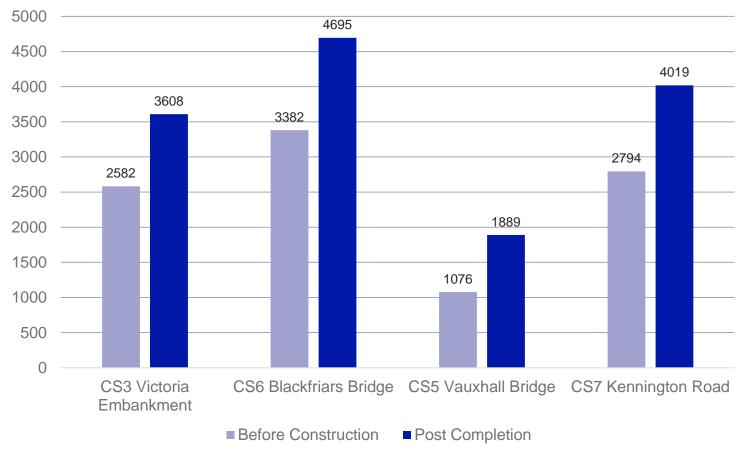
Growth in use of Cycle Superhighways

- 13% increase in cycling compared to the 2014 baseline survey
- Two thirds of the daily km cycled on the CS routes occur in the AM and PM peaks.
- The busiest hours are 8am to 9am and 6pm to 7pm
- The top 4 sites recorded daily cycle flows of over 8,000 per day in both directions.





Increase in cyclists in London (AM peak)





Design philosophy aims

- Remove / minimize conflicting movements by separating users in time and space
 - > at junctions (4 sec early release, 2SRT, LLCS, hold the left)
 - > on links (stepped track, light seg'n, kerbed seg'n)
- Reduce delays to attract more cyclists
 - same green time as general traffic
 - progression through networks



Provision for all abilities







Conclusion







Increase in number of people cycling











Contact

Korak van Tuyl Design Manager Outcomes Delivery Kornelis.vantuyl@tfl.gov.uk 020 3054 2471

