



PRESENTATION DATE

Changing London's Streetscape

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CHANGING LONDON'S STREETScape

Step-change in Cycle design

- Safety
- Segregation methods
- Reallocation of road space
- Cycle Signals
- Innovations
- Impacts



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CHANGING LONDON'S STREETScape

Step change in Cycle Design



- Meet TfL target of 1.5million cycle journeys every day by 2026
- 5% mode share for cycling by 2026
- Encourage new cyclists / less confident cyclists
- Continental techniques adapted to UK
- Segregation in Time / Space for cyclists
- Make London's busiest junctions safer and more attractive for vulnerable road users



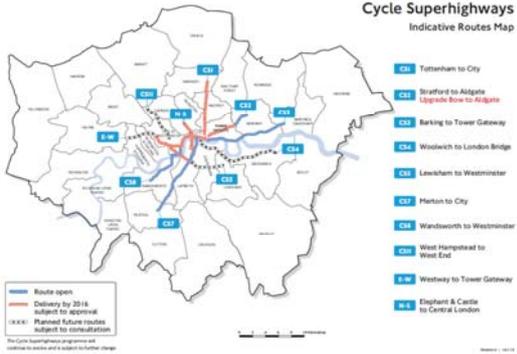
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Safety – Common Conflict types

Conflict rank	Indicative diagram	Manoeuvre description	Seriously injured casualties (% of total)	Fatal casualties (% of total)
1		Other vehicle turns right across path of cyclist	243 (14%)	2 (5%)
2		Cyclist hits open door / swerves to avoid open door of other vehicle.	160 (10%)	2 (5%)
3		Cyclist and other vehicle travelling alongside each other.	146 (9%)	4 (9%)
4		Other vehicle turns left across the path of cyclist	125 (9%)	11 (25%)
5		Other vehicle fails to give way or disobeys junction control and collides with cyclist	96 (6%)	1 (2%)



Cycle Superhighways Indicative Routes Map



Segregation methods



Stepped track



Light segregation



Kerbed segregation



Segregation – Kerb side activity



Segregation methods – CS2

Video showing different types of segregation:

- Light segregation
- Kerbed segregation
- Hybrid track
- Bus stop bypass
- Treatment with junctions
- Early start for cyclists
- Hold the left signals

[CS2 – types of segregation:](#)



Changes in Road layout Elephant & Castle



Changes in Road layouts

Queens Circus



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Changes in Road layouts

Victoria Embankment



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Changes in Road layouts

Upper Thames Street



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Changes in Road layouts



Mile End Road



Changes in Road layouts



Kennington Oval



Oval CS7 – Before & After

Kennington Road – Oval Better Junction scheme

Video showing:

- Cyclists on carriageway interacting with traffic
- Cyclists on track separated in time and space from traffic

[Oval - Before and After](#)
[Oval - Before and After.mp4](#)



Signals and Junctions



- Low Level Cycle Signals
- Hold the Left
- Cycle Gates
- Early release
- Two Stage Turns



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Early Release – TRL trials – LLCS & Filter



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Early Release



Cambridge Heath Road – 4 seconds early release for cyclists



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Early Release

Video of Cambridge Heath showing
Signal sequence
Road user behaviour

[Cambridge_Heath - Early Release\Cambridge_Heath - Early Release.mp4](#)



Early Release

Video from cyclists viewpoint
Distance travelled to clear conflict
Distance where traffic "catch up" with cyclists

[CS2_Cambridge_Heath_Early_release_-_cyclists_view\CS2_Cambridge_Heath_Early_release_-_cyclists_view.mp4](#)



Hold the left - concept



Hold The left turn – variety of signal layouts



Hold The left turn

Signal Sequence

- Ahead traffic with parallel cycle movement
- Cyclists turn right using the "Two stage right Turn"
- Turning traffic held whilst cyclists on green
- Cyclists held when turning movements on green

[HTL v2 - CP view.MOV](#)



Hold the left at Roundabouts

Video of Queens Circus:

- Showing hold the left at a roundabout
- Progression for cyclists on dominant movement
- Segregation methods

[Queens Circus progression\Queens Circus progression.mp4](#)



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Cycle Gate

pedestrian across all arms

Legend:
 - Cycle parking
 - Existing trees
 - Proposed new trees (subject to)

BOROUGH ROAD

The Clarence Centre

New 'Early Start' facility to separate ahead cyclists from left turning vehicles

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Cycle Gate – link between CS7 and CS3

Video at Queen Street Place
 Cycle gate to allow cyclists to access bi-direction track and cycle-only road without conflict with turning traffic.
 Cycle behaviour and volume
 traffic behaviour and understanding

[Cycle Gate - Queen Street Place.mov](#)

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Two Stage Right Turn

TWO STAGE RIGHT TURN

Storage area or box

Adjacent approach

Legend:
 - Single-stage 'normal' right turn path
 - Two-stage right turn path

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2SRT – Cambridge Heath



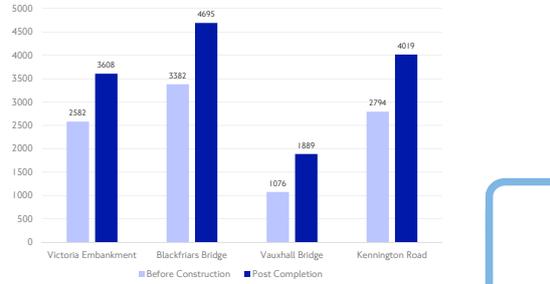
Two Stage Right Turn

Video at CS6 – On a Bi-Directional track
 Cycle behaviour
 Use of Signals on second part of manoeuvre
 How traffic is signalised

[Right turn and 2SRT.mp4](#)



Increase in Cyclists in London (AM peak)



Cycling photos - London



Cycling photos - London



Questions?

Whilst we take questions on items, we will show the video of CS5 (Vauxhall to Pimlico)

Showing two-way segregated track, including:

- Signals
- Bus stop bypasses
- Links with other cycle routes
- Benefits of segregated cycle track

[CS5 both directions.mp4](#)





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