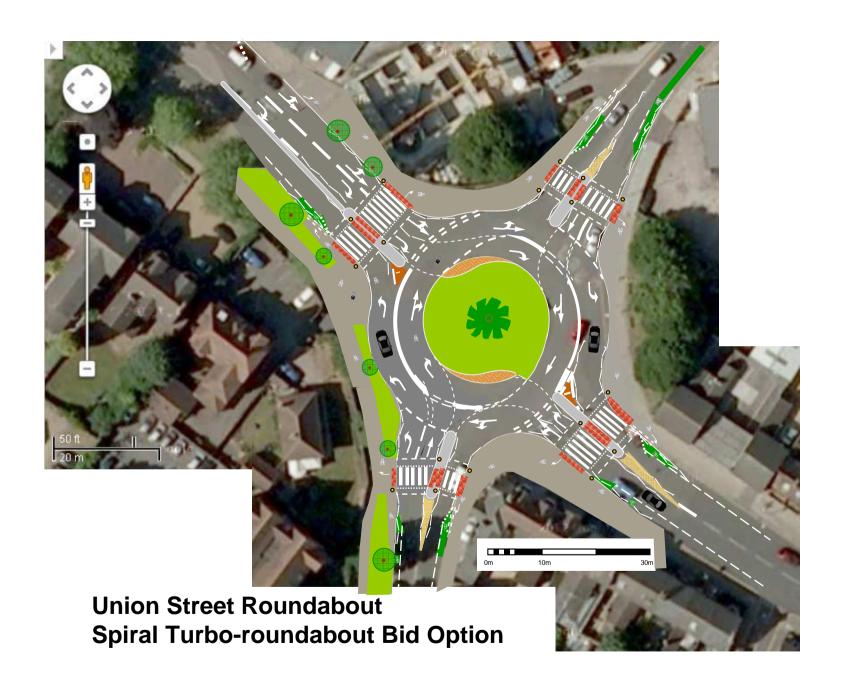




Union St Roundabout Bid option

- Turbo-Roundabout
- Traversable lane dividers encourage vehicles to follow correct lane
- Spiral lane markings lead vehicles off at next junction
- Compact style leads to vehicle speeds falling from 25mph to 15mph
- Zebras provide safe crossings for pedestrians and off-road cyclists
- On-road cyclists share with slow traffic
- Off-road cyclist use new paths and Zebras

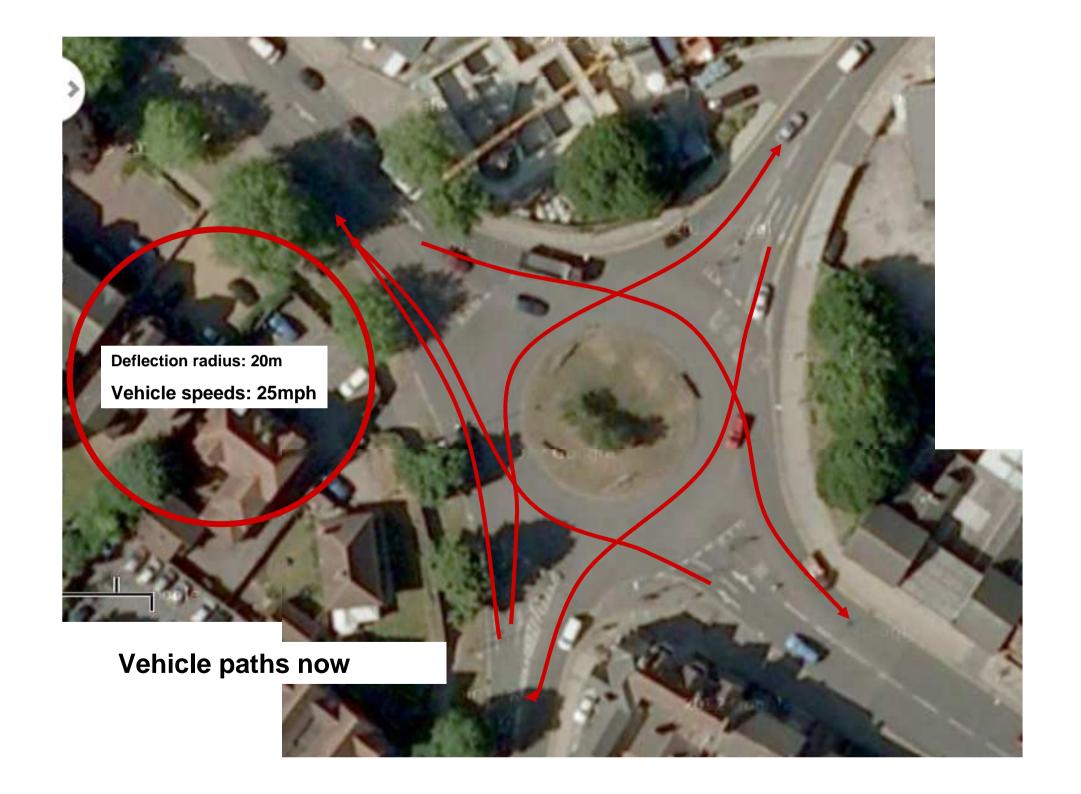


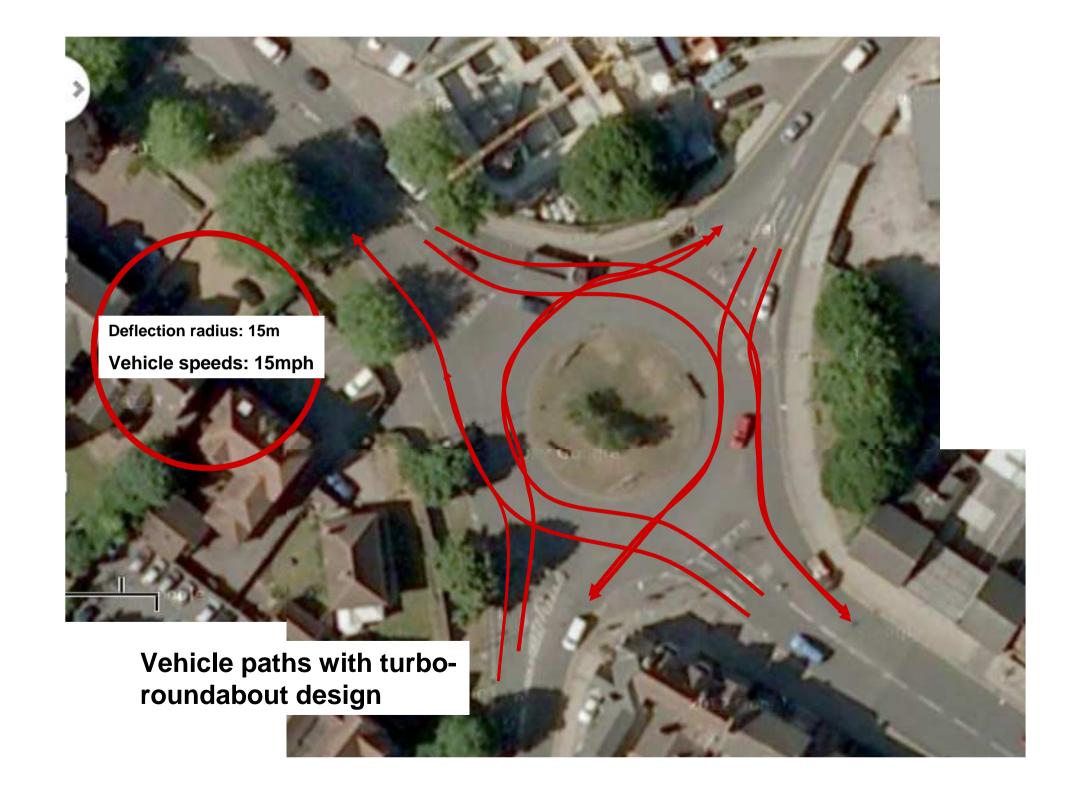
Turbo-roundabout



Vehicle paths through roundabout

- Main impact on speeds through roundabout are "deflection curves"
- Deflection curve radii shown by red circles
- Current situation:
 - Vehicles can follow use full width of circulatory carriageway
 - Deflection radius 20m leads to 25 mph speeds
- Turbo-roundabout
 - Lane discipline enforced by mountable lane dividers
 - Deflection radius of 15m leads to 15 mph speeds





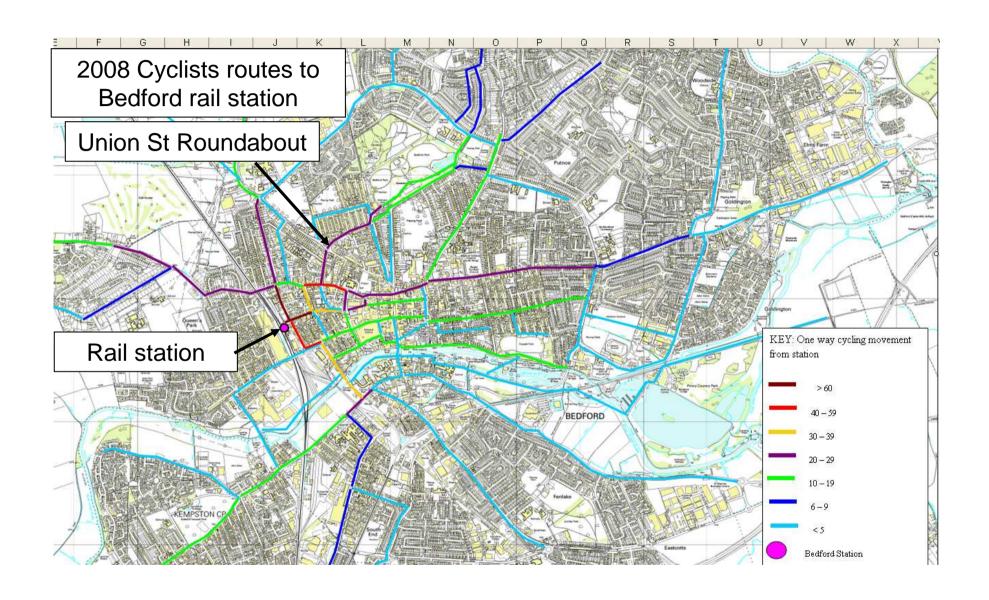
Other survey data

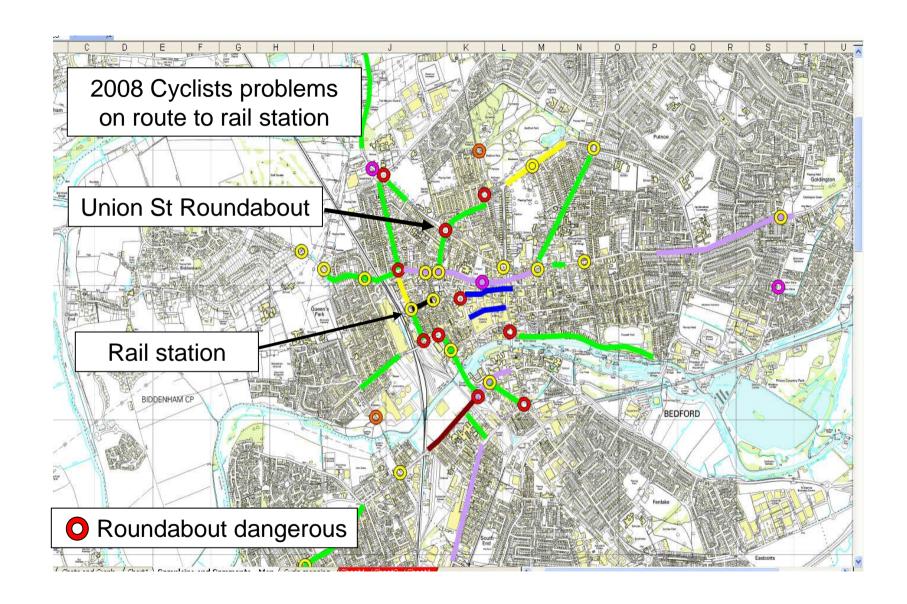
Bedford Rail Station

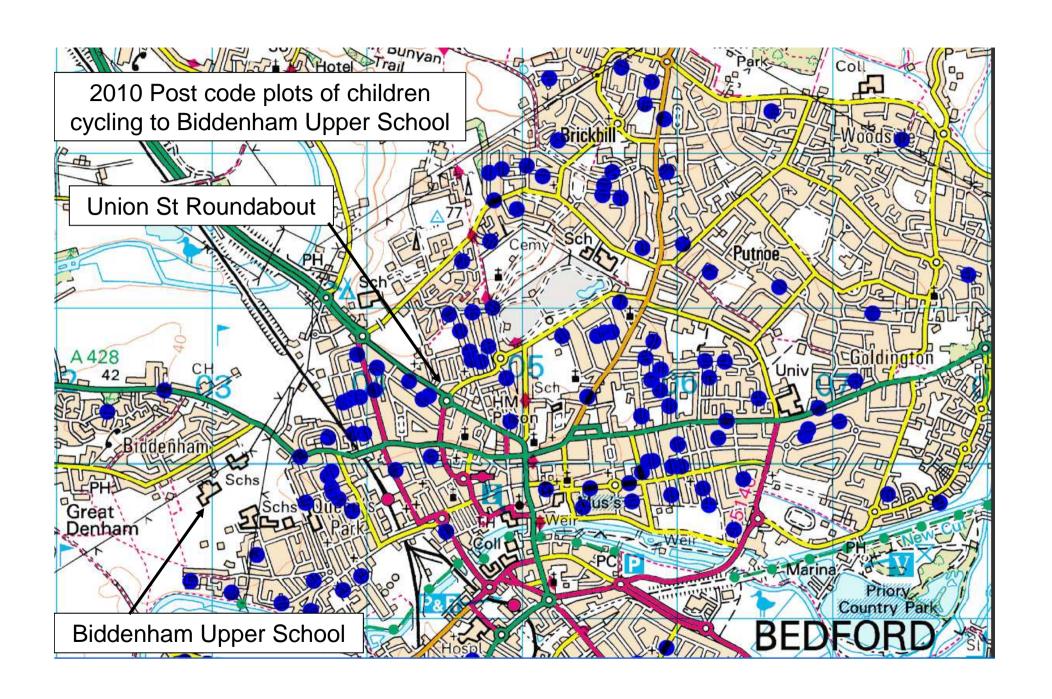
- In 2008, we undertook a survey of nearly 200 cyclists parked at the station
- Plan 1: Cyclists plotted their route to the station
- Plan 2 Cyclists identified problem junctions and routes some user comments:
 - "Traffic at roundabout between Clapham Rd and Tavistock often races across at speed. Traffic turning left from Union St to Clapham Rd often nearly cuts me up at roundabout - they do not seem to expect a cyclist to go straight over".
 - "Clapham Rd, Bromham Rd I get off and cross on foot at busy times"
 - Crossing roundabout between Clapham Rd & Tavistock St can be dangerous due to Large traffic enter Bedford in morning and evening

Biddenham Upper School

Pupil home post codes – many need to use the roundabout









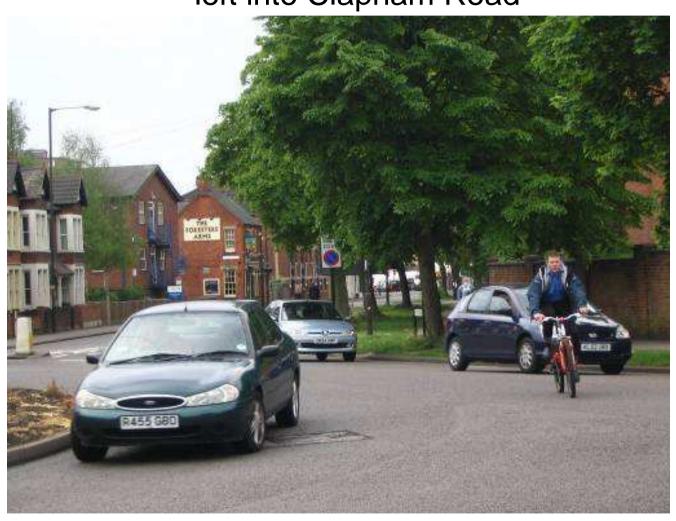
A) Roundabout from Roff Avenue



B: an unpleasant experience for cyclists: cyclist turning right from Clapham Road towards town

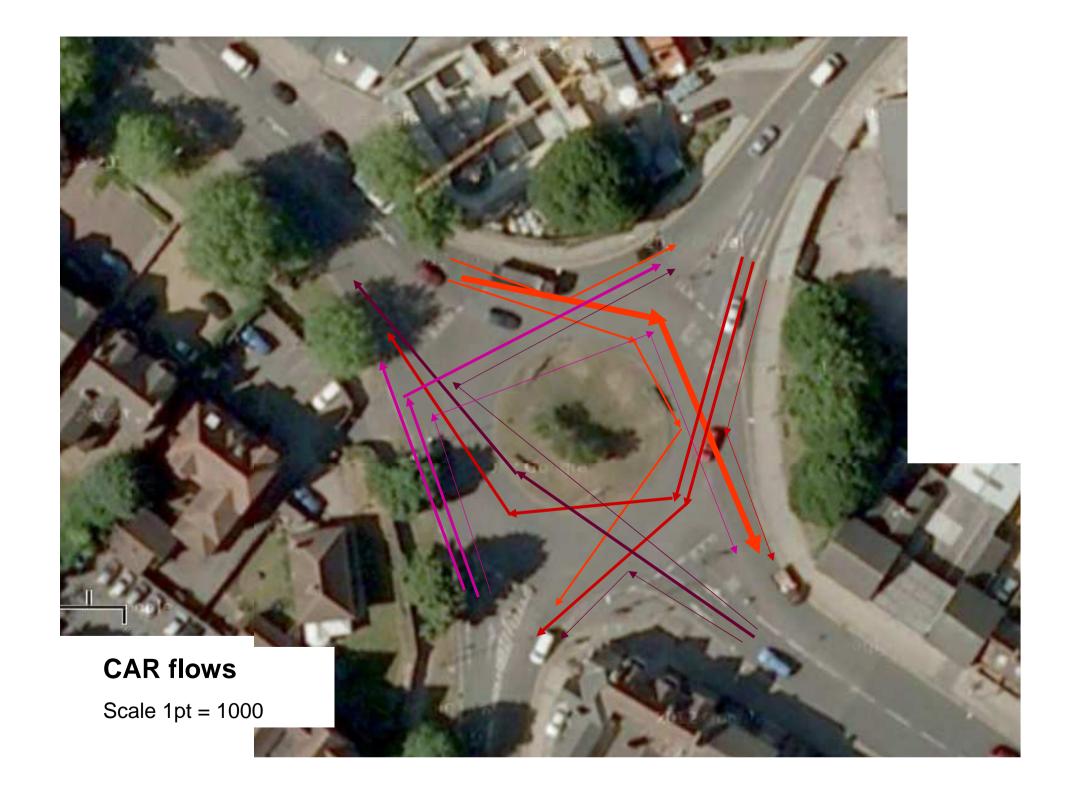


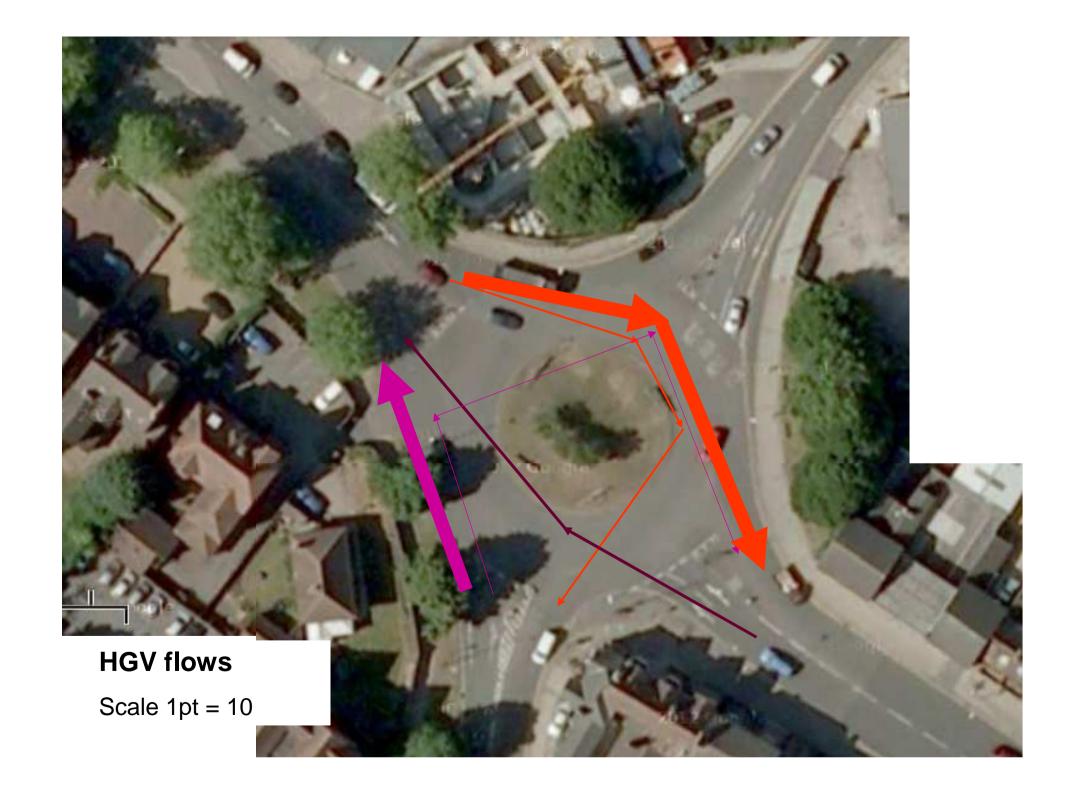
C: an unpleasant experience for cyclists: cyclist heading north from Union Street whereas most traffic (behind) turns left into Clapham Road

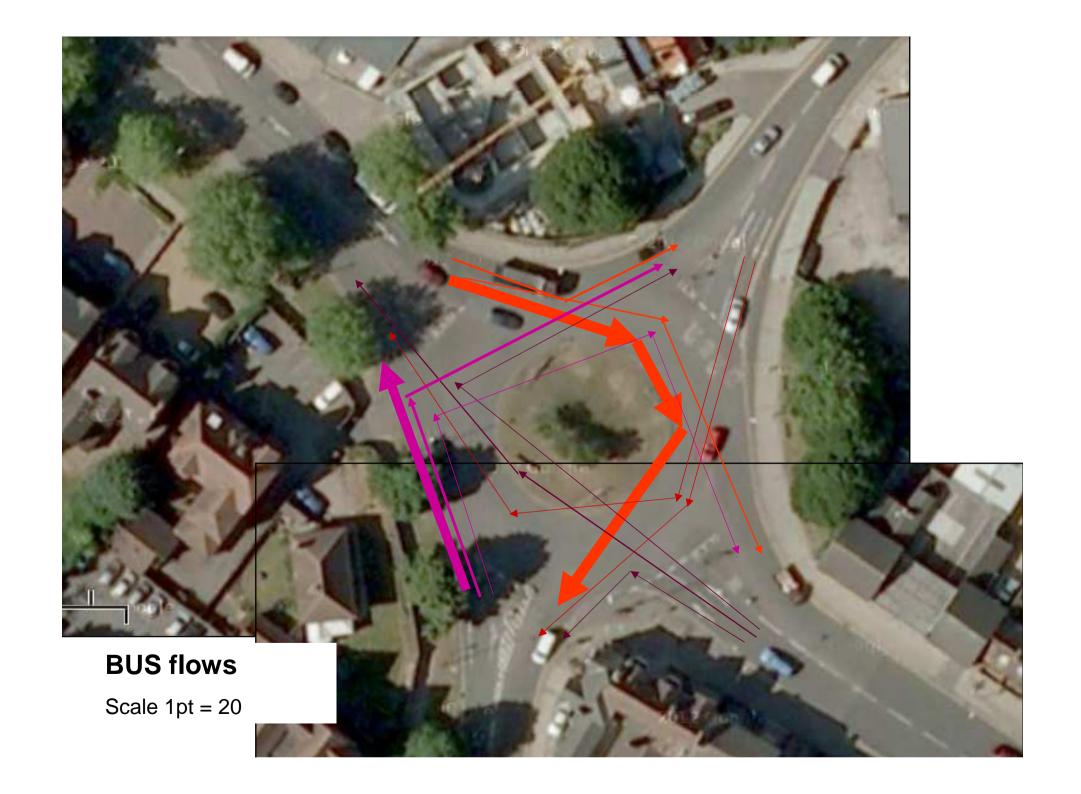


2012 Traffic flows

- Car & LGV flows main flow
 - from Clapham Road to Tavistock Street
- HGV flows main flows
 - from Clapham Rd to Tavistock St
 - from Union St to Clapham Rd
- Bus flows main flows
 - from Clapham Rd to Union St and reverse
- Bicycle flows main flows
 - from Union St to Roff Avenue and reverse
- Pedestrian flows main crossing movements
 - at Union St and Tavistock St arms
 - at Clapham Road Pelican











Rejected options

- 1. Do nothing
- 2. Compact
- 3. Compact with cycle tracks
- 4. Annular
- 5. Spiral with on-road lanes
- 6. Signalisation



