

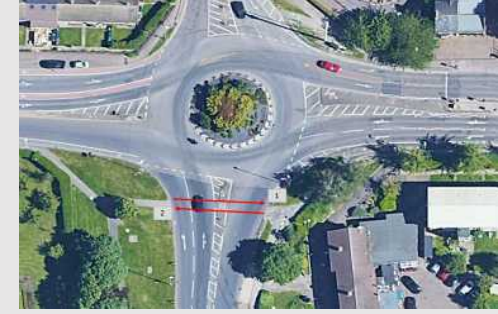
# Cambridgeshire Active Travel

## Monitoring brief for Barnwell Rd/Newmarket Rd/Waloes Rd roundabout

- This document presents the key summary of the traffic monitoring results
- Surveys undertaken in w/c 25<sup>th</sup> April 2022 for majority of schemes
- The 1<sup>st</sup> round of 2023 surveys were undertaken in w/c 18<sup>th</sup> April 2023. Note that this was outside of University term time, but within School term time.
- The 2<sup>nd</sup> round of 2023 surveys were undertaken in w/c 3<sup>rd</sup> October 2023. This is within University and School term times
- Other monitoring measures have been undertaken. These include:
  - Road safety Reviews post installation to identify any safety-related elements
  - Review and response to Public feedback following installation of the schemes

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## Monitoring Results: C32 Barnwell Road Roundabout



Key observations from survey data	Designer's comments	Changes in October
No real definitive patterns to pedestrian and cycle usage on improved crossing patterns	Survey was undertaken a week before University term time and therefore might not reflect the student usage. However, it was undertaken during school term dates (1 <sup>st</sup> week back after Easter), so should have captured school travel patterns.	Slight increase in general ped and cycle movements.
Increase in the number of cyclists using the crossing in the AM peak	The improved cross width (from 1.5m to 3m) and reduced crossing distance on exit arm (reduced from 7.5m to 4.5m) appears to be encouraging use on this arm by cycles. The PM period does not record an equivalent increase. This is potentially due to the fact that school finishing time 3pm to 4pm was not covered by the survey, whereas the AM period number would include for cycles using the area.	Slight increase in number of cyclists using crossing in AM peak, however April 2023 experiences a greater increase than October 2023
Reduction in speed of vehicles entering and exiting roundabout at Barnwell Road	Carriageway narrowed to reduce vehicle turning speed and provide space to improve pedestrian crossing facility	Reduction in speed of vehicles entering the roundabout at Barnwell Road. Slight increase in speeds of vehicles exiting the roundabout at Barnwell Road in AM and interpeak (of 0.1mph).

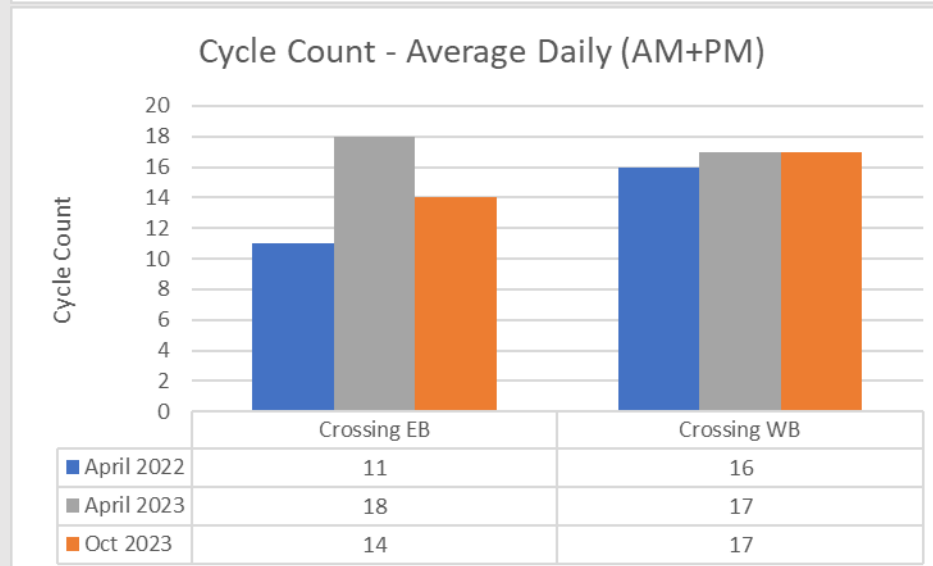
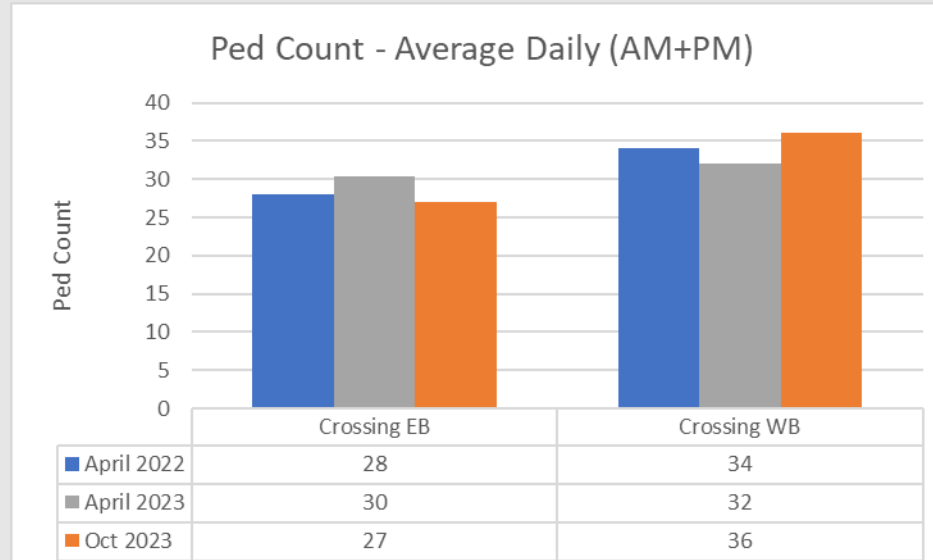
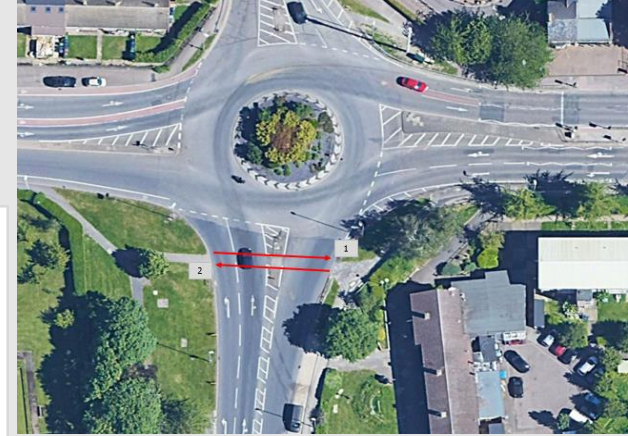
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## Monitoring Results: C32 Barnwell Road Roundabout

### 1. Impact on Pedestrian & Cycles

- There are minor changes to the pedestrians and cycles
- **Eastbound Crossing:** In April 2023 there is a minor increase of pedestrians increase of 2 pedestrians (10%). In October 2023 there is a minor decrease of pedestrians by 1 (4%).
- In April 2023 there is an increase in cycles from 11 to 18 (59%), which corresponds to an increase of 7 cycles. In October 2023 there is an increase in cycles from 11 to 14 (27%).
- **Westbound Crossing:** In April 2023 there is a minor decrease in pedestrians from 34 to 32 (7%). In October 2023 there is a minor increase of pedestrians from 34 to 36 (6%).
- In April 2023 and October 2023, there is a minor increase in cycles of 1 cycle.

Note that the whole day is just AM peak and PM peak combined, so it covers 7am-10am and 4pm-7pm



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## Monitoring Results: C32 Barnwell Road Roundabout

### 2. Impact on Speed

- Barnwell Road Roundabout Exit: In April 2023** The mean speed decreases by 4% in the AM and PM, which corresponds to a decrease of 0.8mph and the interpeak experiences a decrease of 2%, which corresponds to a decrease of 0.3mph.
- In October 2023 there is a slight increase in speeds in the AM and interpeak and a decrease in the PM. The mean speed increases by 1% in the AM and by 0.3% in interpeak, which both correspond to an increase of 0.1mph. The PM experiences a decrease of 1%, which corresponds to a decrease of 0.2mph.
- Barnwell Road Roundabout Entry:** In April 2023 the mean speed decreases by 6% in the AM, which corresponds to a decrease of 1.0mph. The interpeak experiences a decrease of 7%, which corresponds to a decrease of 1.2mph. The mean speed decreases by 10% in the PM, which corresponds to a decrease of 1.3mph.
- In October 2023 the mean speed decreases by 9% in the AM, which corresponds to a decrease of 1.3mph. The interpeak experiences a decrease of 5%, which corresponds to a decrease of 0.8mph. The mean speed decreases by 9% in the PM, which corresponds to a decrease of 1.2mph.

