

# Cambridgeshire Active Travel

## Monitoring brief for A505/A1301 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
- Additional surveys completed for C02 Church Lane in October 2022
- 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
  - Queue length monitoring in September 2023 (post installation)

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## Monitoring Results: S03 A505 Roundabout

### Overall Comments

Key observations from survey data	Designer's comments	Changes in October
There are decreases in speeds across all sites (northbound, eastbound and westbound exits) in all peaks	Speed reductions consistent across day time periods, suggesting the geometry changes had an influence on reducing vehicle speed	<ul style="list-style-type: none"><li>- Westbound A505 exit speeds have reduced further (average of 18mph in October 2023 vs 22mph in April 2023)</li><li>- Eastbound A505 exit speeds have increased further (average of 31mph in October 2023 vs 25.3mph in April 2023). No apparent explanation for this, other than potential for it to be caused by:<ul style="list-style-type: none"><li>- increased network congestion downstream of the Westbound exit, resulting in lower speeds on westbound arm than previously recorded</li><li>- Driver frustration and harsher acceleration after being released from the A505 queue, resulting in higher speeds on eastbound arm than previously recorded</li></ul></li></ul> However, there remains an overall reduction in vehicle speeds (1-2mph) when compared against April 2022 data. <ul style="list-style-type: none"><li>- A1301 exit speeds have remained consistent with reductions seen in the April 2023 monitoring.</li></ul>
Greater decrease (up to approx. 7mph) in mean speeds at A1301 (northbound) and A505 (eastbound) exits	Speed reductions consistent across day time periods, suggesting the geometry changes had an influence on reducing vehicle speed	Greater decrease (up to approx. 7mph) in mean speeds at A1301 (northbound) and A505 (westbound) exits

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## Monitoring Results: S03 A505 Roundabout



### 1. Impact on Traffic – Speeds

- Site 1 A505 (Westbound):** In April 2023 the AM peak experiences a decrease of 7% in the mean speed, the interpeak experiences a 6% decrease and the PM peak experiences a 9% decrease. The mean speed in the AM decreases by 1.8mph, the mean speed in the interpeak decreases by 1.5mph and the PM decreases 2.2mph. In October 2023 the AM peak experiences a decrease of 26% in the mean speed, the interpeak experiences a 24% decrease and the PM peak experiences a 28% decrease. The mean speed in the AM decreases by 6.2mph, the mean speed in the interpeak decreases by 5.8mph and the PM decreases 6.6mph. Both pre and post exist speeds believe to be influenced by downstream junction with BP Garage and MacDonalds.
- Site 2 A1301 (Northbound):** In April 2023 the mean speed decreases by 21% in the AM, by 28% in the interpeak and 22% in the PM. The interpeak has a significant decrease of 7.1mph whilst the AM and PM decrease by 5.3mph and 5.6mph respectively. In October 2023 the mean speed decreases by 19% in the AM, by 24% in the interpeak and 21% in the PM. The interpeak has a significant decrease of 6.1mph whilst the AM and PM decrease by 5.0mph and 5.3mph respectively.
- Site 3 A505 (Eastbound):** In April 2023 all peaks experience a significant decrease in the mean speeds, whilst all peaks in October 2023 experience a smaller decrease. In April 2023 the mean speed decreases by 21% in the AM, whilst the interpeak and PM both decrease by 22%. The PM mean speed decreases by 7.4mph, the interpeak decreases by 7.0mph and the AM decreases by 6.8mph. All peaks experience a slight decrease in the mean speeds. In October 2023 the mean speed decreases by 3% in the AM, by 2% in the interpeak and by 5% in the PM. The PM mean speed decreases by 1.6mph, the interpeak decreases by 0.6mph and the AM decreases by 1.1mph.

