

# Cambridgeshire Active Travel

## Monitoring on Church Street

- 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, which are reported separately. These include:
  - Road safety reviews post installation to identify any safety-related elements
  - Review and response to public feedback following installation of the scheme

# Cambridgeshire Active Travel

## Monitoring Results: C40 Church Street

### Overall Comments

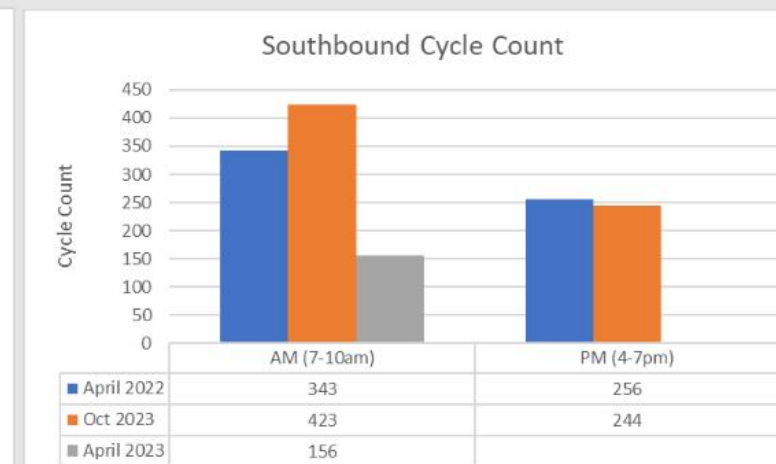
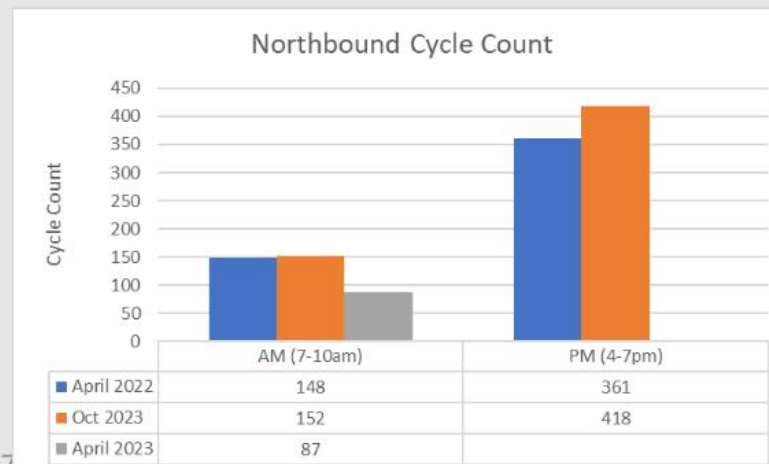
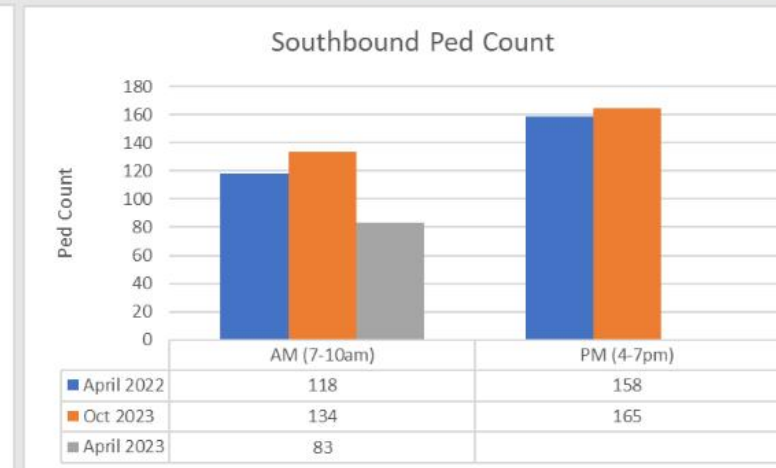
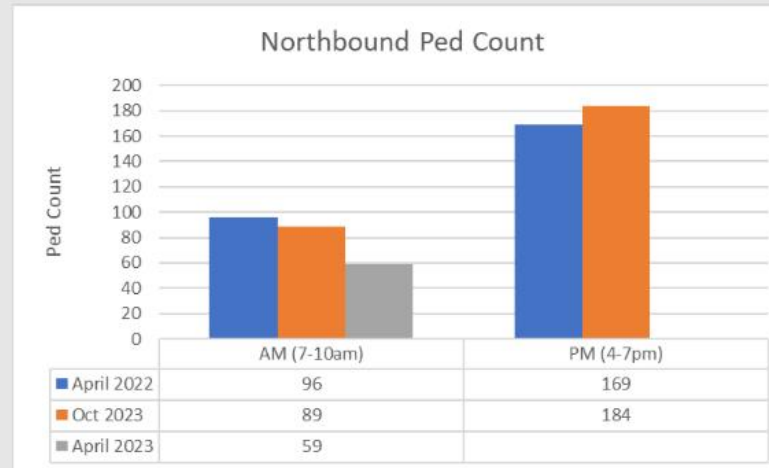
<b>Key observations from survey data</b>	<b>Designer's comments</b>	<b>Changes in October</b>
<p>The October survey, undertaken in the same location as the pre-installation survey, shows an increase in pedestrians and cyclists. The limited data provided for the April survey shows an increase in pedestrians but decrease in cycles but the location of the survey was not the same.</p>	<p>Due to data only being available currently for one morning, rather than 3 AM and PM periods, it is difficult to draw robust conclusions in the cycle number decrease in April 2023. Two additional factors are believed to be impacting this result by reporting lower than actual usage:</p> <ul style="list-style-type: none"><li>• The undertaking of the survey was done outside of university term time, potentially impacting on numbers</li><li>• The positioning of the count is believed to have missed some pedestrian and cycle movements.</li></ul>	<p>Increase in most pedestrian movements and cycle movements when compared against April 2022. Total number of peds and cyclists increase.</p>
<p>Decrease of pollutant levels in the weekday average</p>	<p>As the monitoring data has been used undertaking 'indicative' equipment therefore the data has been used to investigate the change in concentrations rather than the absolute concentrations.</p> <p>Whilst the trend shows an overall improvement in pollutant levels, the quantum of reduction should be treated with caution. This is due to the short length of time (3 months) that air quality was monitored at this location, when compared to the yearly background level monitoring undertaken across CCC network.</p>	<p>Air Quality monitoring still ongoing as it is being undertaken over a 3 month period so no comparison available for October 2023.</p>

# Cambridgeshire Active Travel

## Monitoring Results: C40 Church Street

### 1. Impact on Pedestrian & Cycles

- Note that the locations are different in April 2023 and October 2023. The analysis for April 2022 and October 2023 are carried out at the same location. Also note that there is only Wednesday AM data available for April 2023. April 2022 and October 2023 are average for 3 days and both AM and PM data is presented.
- **Northbound:** In October 2023 there is an increase in the PM from 169 to 184 peds (9%) and a decrease in peds from 96 to 89 peds (7%) in the AM. There is a minor increase in cycles from 148 to 152 cycles (2%) in the AM and an increase from 361 to 418 cycles (16%) in the PM.
- In April 2023 there is a decrease in pedestrians from 96 to 59 peds (38%) and a decrease in cycles from 148 to 87 cycles (41%)
- **Southbound:** In this direction there is an increase in pedestrians from 118 to 165 peds (4%) in the PM. There is an increase in cycles from 343 to 423 cycles (23%) in the AM and a decrease in cycles from 256 to 244 cycles (5%).
- In April 2023 there is a decrease in pedestrians from 118 to 83 peds (29%) and a decrease in cycles of from 343 to 156 cycles (55%).
- Overall, there is an increase of peds and cyclists in both directions across AM and PM in October 2023. There is an increase in peds from 541 to 571 peds (6%) across AM and PM. There is an increase in cycles from 1107 to 1237 cycles (12%) across AM and PM.



1001007

# Cambridgeshire Active Travel

## Monitoring Results: C40 Church Street – April

### 2. Air Quality Data

Air quality monitoring has been undertaken pre and post implementation:

- The data only provide a snapshot in time of approximately one month's worth of data at each site pre and 3 months post implementation
- The monitoring has been carried out using sensor based monitoring equipment (Zephyr) which is described as an indicative ambient monitoring device.
- No additional local site colocation of the monitor equipment has been undertaken with a reference method monitor within Cambridge
- As the monitoring data has been used undertaking 'indicative' equipment therefore the data has been used to investigate the change in concentrations rather than the absolute concentrations
- The pollutant levels recorded relate to: NO<sub>2</sub> – Nitrogen Dioxide, PM<sub>2.5</sub> – Particulate Matter with a diameter of less than 2.5 microns, PM<sub>10</sub> – Particulate Matter with a diameter of less than 10 microns.
- Note that pre implementation is the daily average of a month, whereas post implementation is the daily average of 3 months of data.
- There is a decrease in all pollutant levels on weekdays and weekends.

