

CONNECTING SHEFFIELD

Better travel choices

Overview: Vehicle Count
Section 1 of 9

Nether Edge Active Neighbourhood

Traffic Monitoring Data



| Vehicle count overview - Introduction

In order to monitor and evaluate the success of the Nether Edge Active Neighbourhood, we have conducted a range of traffic monitoring surveys at a number of locations across Nether Edge and the surrounding areas.

These surveys capture the movements of motor vehicles, cyclists and pedestrians. We surveyed key roads and junctions where we anticipated a potential change in travel as a result of the scheme, including areas of traffic displacement.

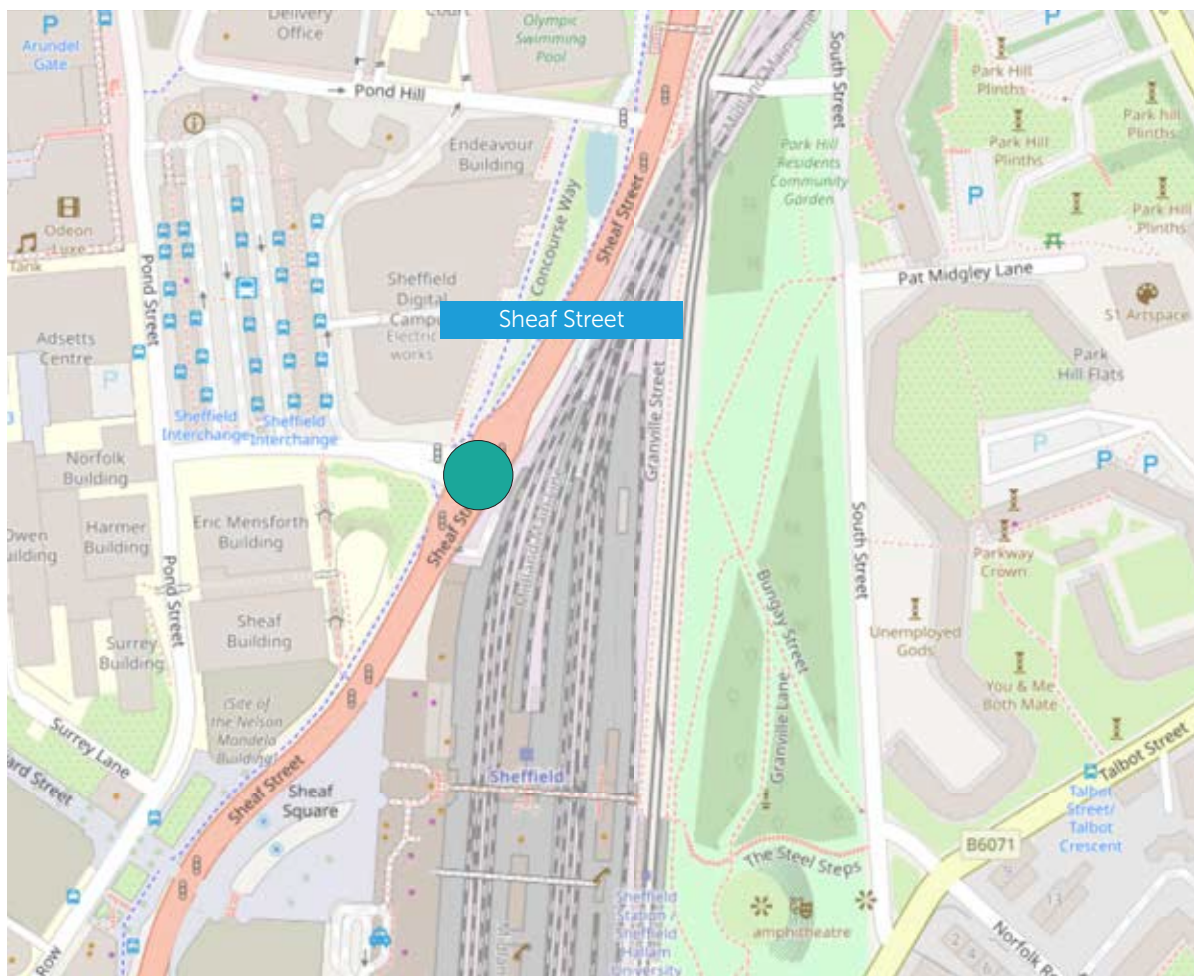
Changes to motor vehicle counts were calculated by taking the average of two surveys before and after the measures were put in place. The surveys prior to the Active Neighbourhood coming into effect took place in May 2022, while the surveys measuring traffic counts after the Active Neighbourhood changes came into effect took place in May 2023.

The findings of all these surveys have been compiled and presented in 9 separate documents.

This is document 1 of 9, and provides an overview of the vehicles that we counted at various locations in the Nether Edge Active Neighbourhood area via traffic monitoring surveys.

These documents have been created to illustrate changes in travel before and after the Nether Edge Active Neighbourhood scheme came into effect. The full committee report on the scheme will provide context to the data presented in this document, and how it informs the recommendations on the future of the scheme.

Change in motor vehicle count at city centre control site



We counted the number of motor vehicles passing through Sheaf Street on two dates in May before and after the implementation of the Nether Edge Active Neighbourhood.

Changes in motor vehicle traffic at a key central road or junction, such as Sheaf Street, are useful indicators of changes in motor vehicle trends on a city-wide level, serving as useful control test sites to compare local traffic trends with city-wide traffic trends.

The table below shows changes in general traffic at the Sheaf Street control site before and after the Nether Edge Active Neighbourhood measures were put in place.

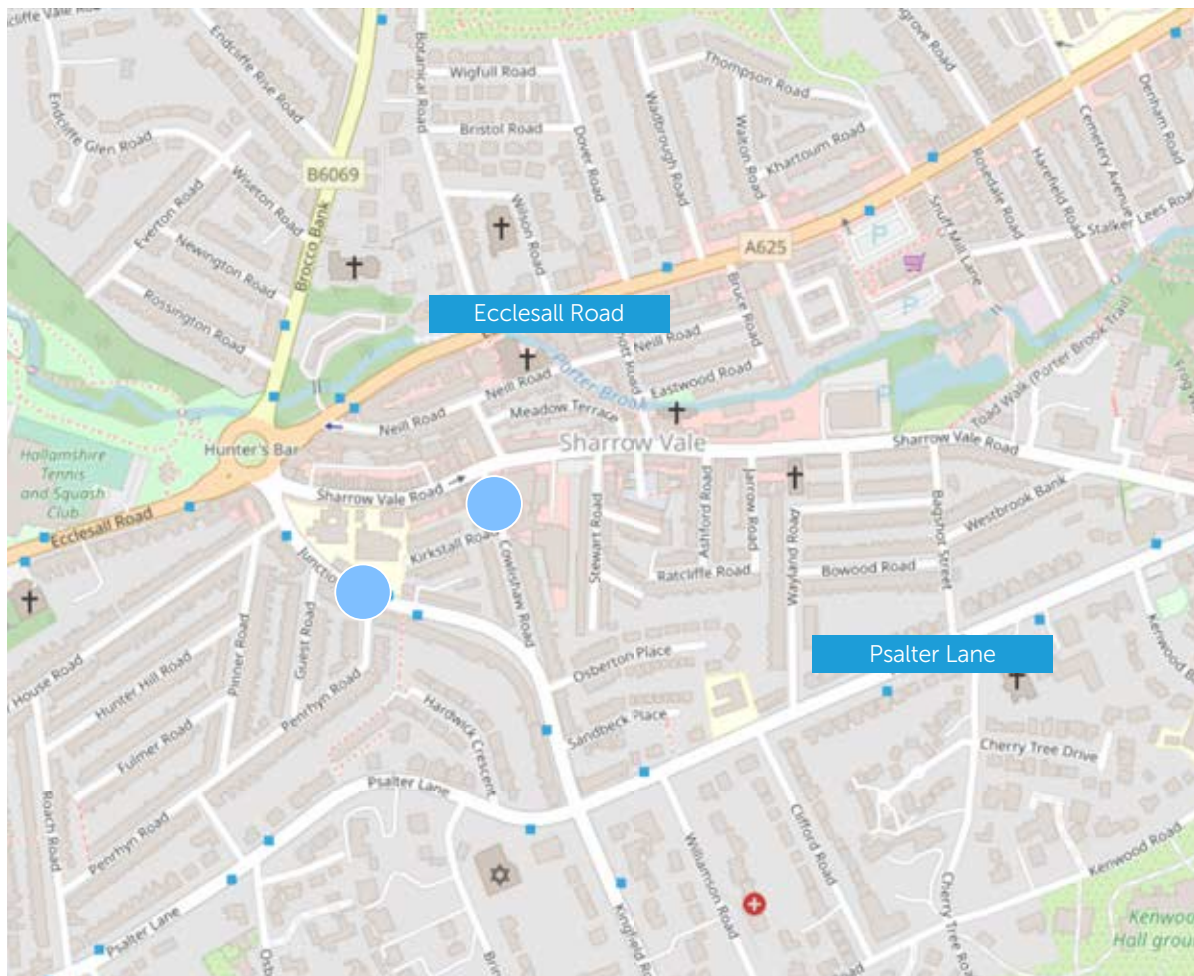
Key

 Location of traffic control site on Sheaf Street

Control site – Daily average data

	May 2022 (10th/11th)	May 2023 (9th/10th)	% change
Daily average counts (in number of motor vehicles)	39,160	41,016	+5%

Change in motor vehicle, pedestrian, and cyclist counts count at local control sites



Key



Location of local Nether Edge control sites

We counted the number of motor vehicles, cyclists and pedestrians passing through key control sites at two different points in the year before and after the implementation of the Nether Edge Active Neighbourhood.

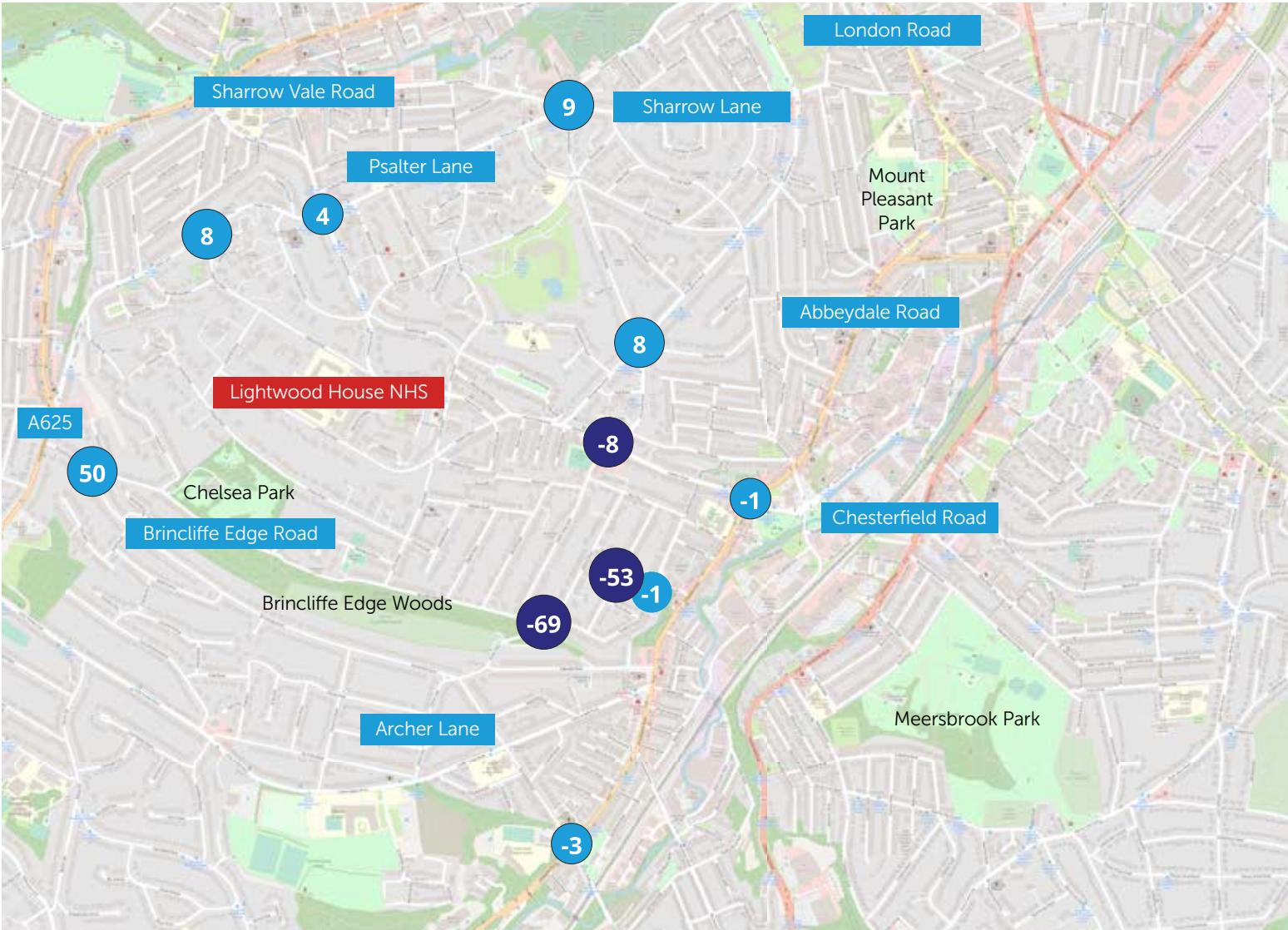
The local control sites were chosen for having similar characteristics and demographics as the Active Neighbourhood area.

Changes in traffic at nearby control sites outside of the boundary of the Active Neighbourhood provide a marker for general local traffic trends outside of changes resulting from the Active Neighbourhood measures.

Local control site – 12 hour counts			
12 hour average	May 2022 (10th/11th)	May 2023 (9th/10th)	% change
Walking	2215	2019	-9%
Cycling	173	203	+17%
Motor vehicles	7589	7477	-1%

Number of motor vehicles counted

(shown as a percentage change)



We counted the number of motor vehicles passing through the Nether Edge Active Neighbourhood.

The circles on the map indicate where we took traffic counts, and the change in number of motor vehicles between May 2022 and May 2023, shown as a percentage change. Increases are shown in light blue. Decreases are shown in navy blue. No change is shown in green.

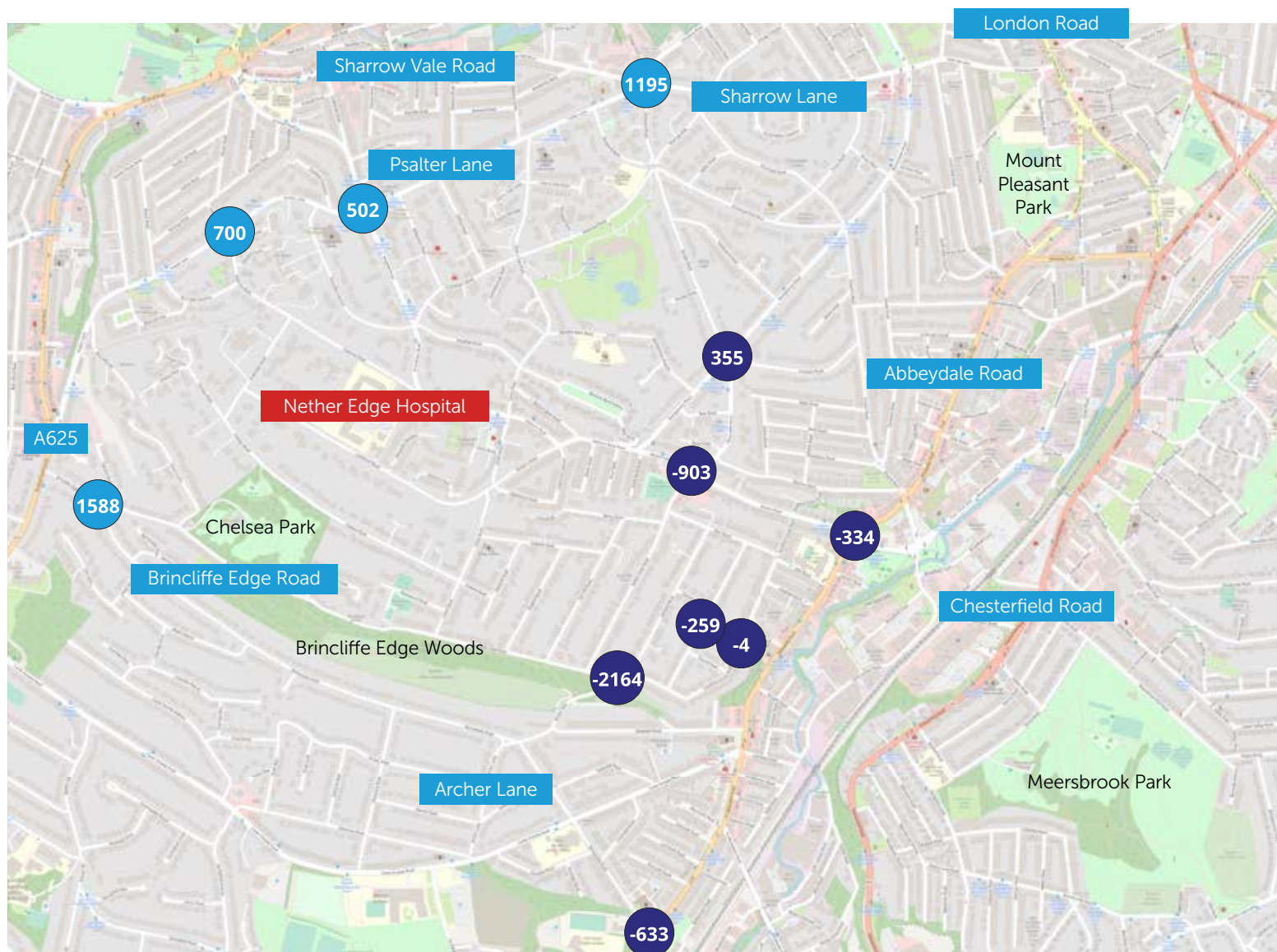
We recorded the largest decrease in the number of motor vehicles at the junction of Archer Lane and Brincliffe Edge Road. At this junction, we counted a 69% decrease in the number of motor vehicles between May 2022 and May 2023.

Key

2 day average of 12 hour motor vehicle count % change (7am to 7pm)



Number of motor vehicles counted



We counted the number of motor vehicles passing through the Nether Edge Active Neighbourhood.

The circles on the map indicate where we took traffic counts, and the change in number of motor vehicles between May 2022 and May 2023. Increases are shown in light blue. Decreases are shown in navy blue. No change is shown in green.

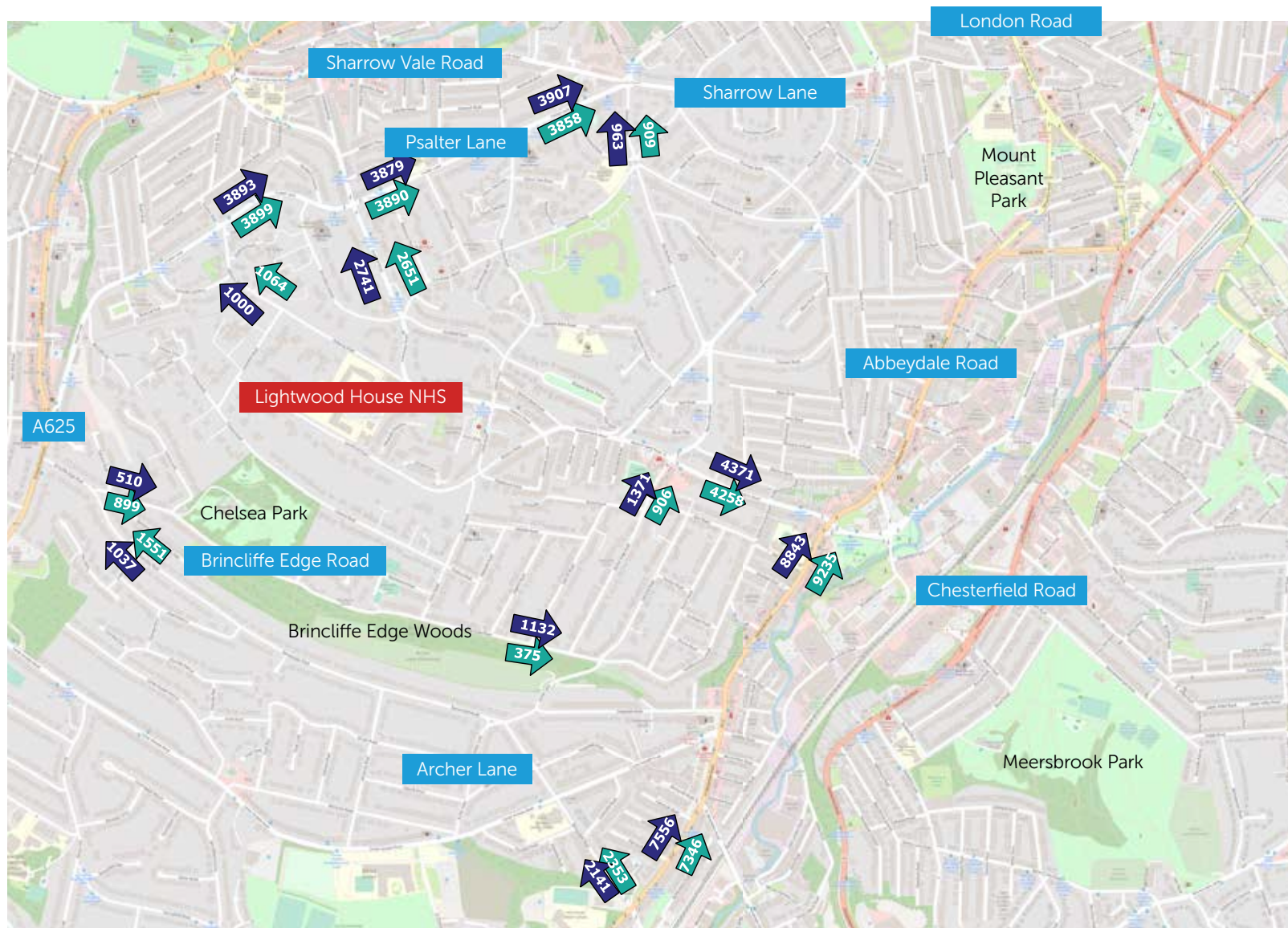
We recorded the largest decrease in the number of motor vehicles at the junction of Archer Lane and Brincliffe Edge Road. At this junction, we counted 2164 less motor vehicles between May 2022 and May 2023.

Key

2 day average of 12 hour motor vehicle count change (7am to 7pm)



Number of motor vehicles counted travelling northbound



We counted the number and direction of motor vehicles passing northbound through the Nether Edge Active Neighbourhood area over a 12 hour period before and after the measures were put in place.

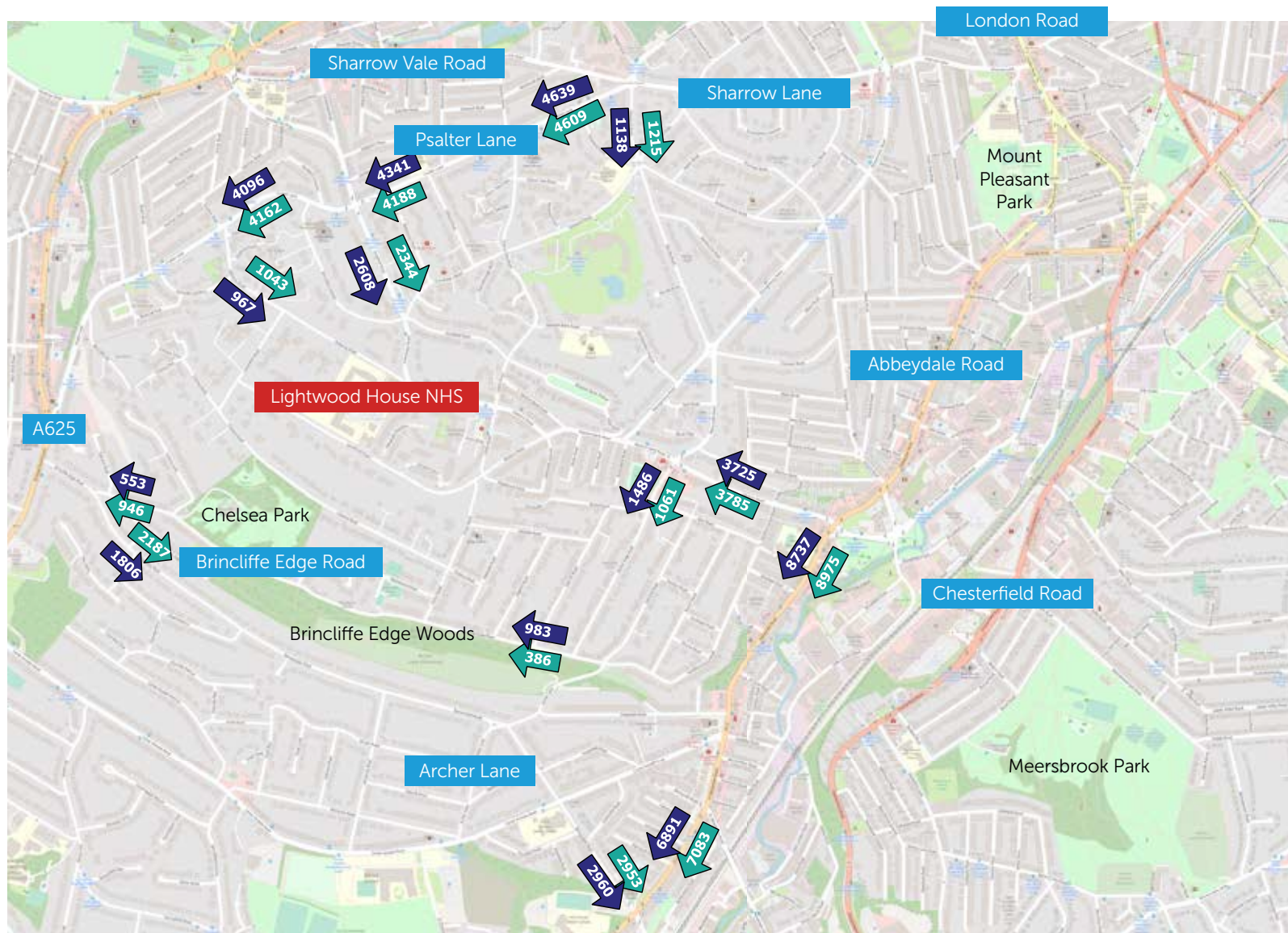
The number and direction of the arrows on the maps show the number and direction of vehicles counted passing through different points in the Nether Edge Active Neighbourhood area.

The navy blue arrows correspond to the vehicles counted in May 2022, while the green arrows correspond to the vehicles counted in May 2023.

Key

➔ Average motor vehicle flows over a 2 day period in May 2022
 ➔ Average motor vehicle flows over a 2 day period in May 2023

Number of motor vehicles counted travelling southbound



We counted the number and direction of motor vehicles passing southbound through the Nether Edge Active Neighbourhood area over a 12 hour period before and after the measures were put in place.

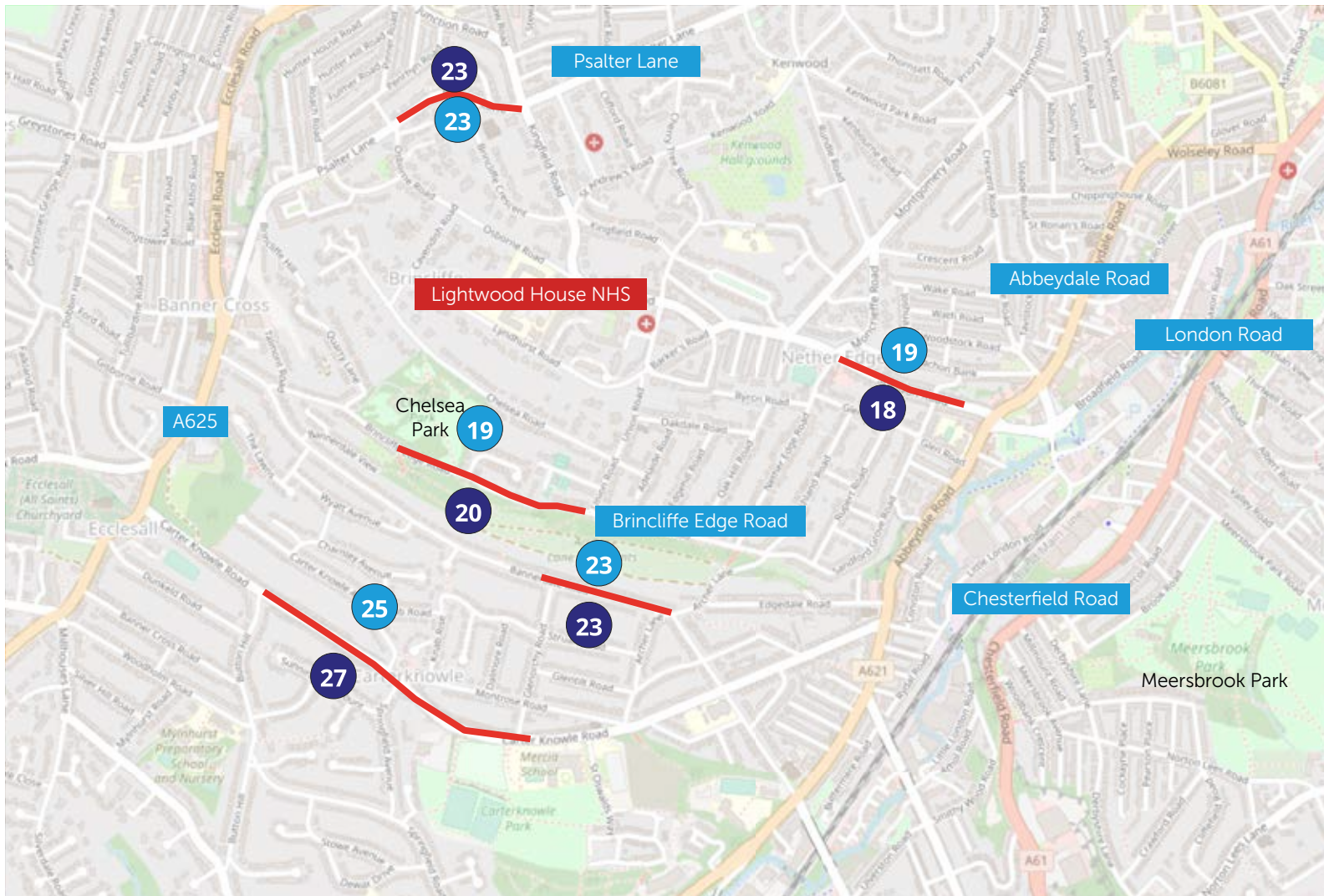
The number and direction of the arrows on the maps show the number and direction of vehicles counted passing through different points in the Nether Edge Active Neighbourhood area.

The navy blue arrows correspond to the vehicles counted in May 2022, while the green arrows correspond to the vehicles counted in May 2023.

Key

 Average motor vehicle flows over a 2 day period in May 2022
  Average motor vehicle flows over a 2 day period in May 2023

Speed data



Black-box telematics were also used to measure the speed of motor vehicles passing through roads in the Nether Edge Active Neighbourhood area before and after the measures were put in place.

The red lines indicate the location of each speed link, while the circles either side of the speed traps show the average speed of the top 10% of fastest motor vehicles passing through each link. The navy blue circles represent the average speed before the measures were put in place, while the light blue represent the average speed after the measures were put in place.

Key

Average speed (in MPH) of top 10% of motor vehicles

-  Average speed (in MPH) before the Nether Edge Active Neighbourhood measures were introduced (March-April 2022)
-  Average speed (in MPH) after the Nether Edge Active Neighbourhood measures were introduced (March-April 2023)
-  Speed links