

CONNECTING SHEFFIELD

Better travel choices

Overview: Vehicle Count
Section 1 of 9

Crookes and Walkley Active Neighbourhood

Traffic Monitoring Data



| Motor vehicle count overview - Introduction

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

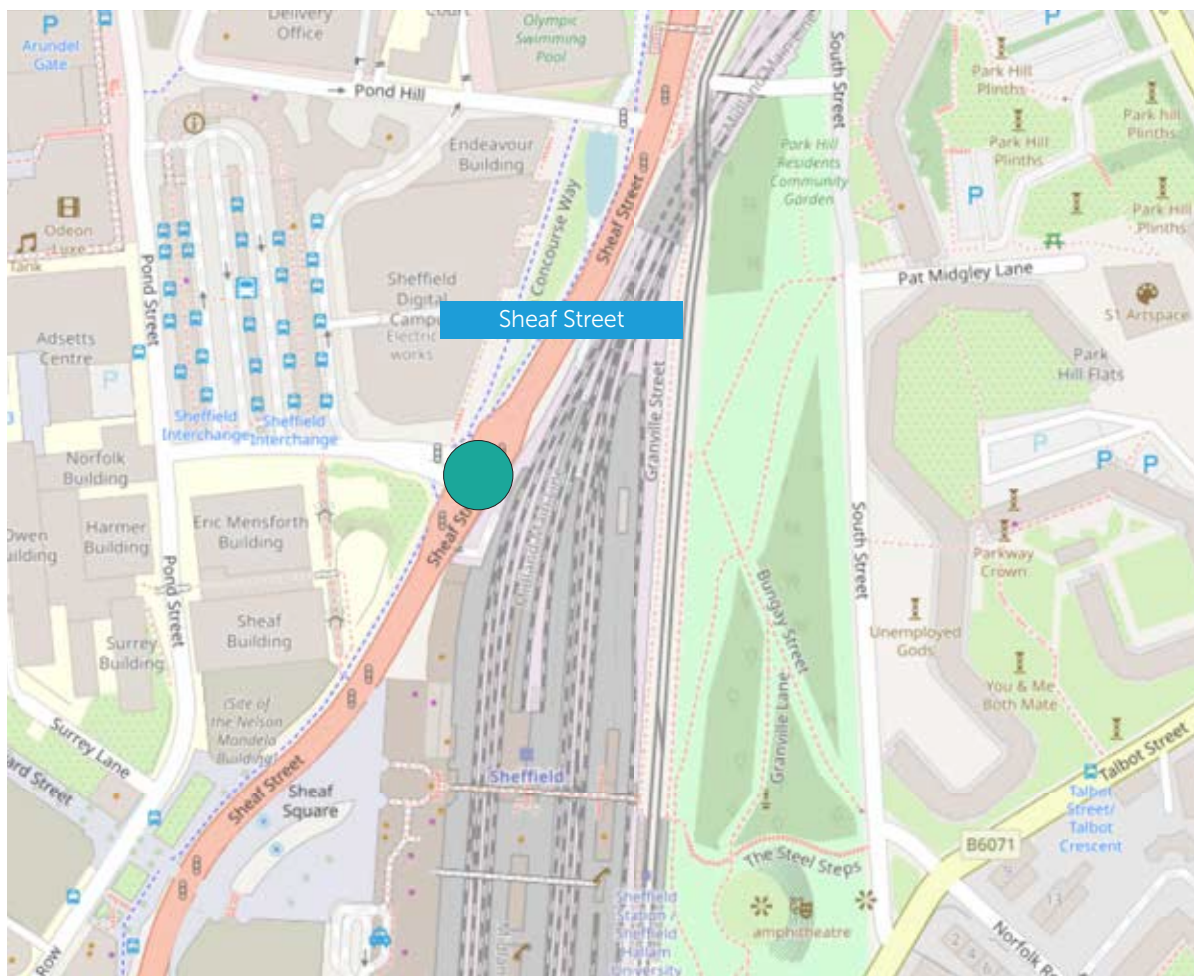
Changes to motor vehicle counts were calculated by conducting surveys before and after the measures were put in place. The surveys prior to the Active Neighbourhood coming into effect took place in November 2021, while the surveys measuring traffic counts after the Active Neighbourhood changes came into 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 Crookes and Walkley Active Neighbourhood area via traffic monitoring surveys. As the first data surveys took place on a single day, we also looked at possible variation in the data from days around the 'after' surveys. Between weekdays, motor vehicle counts may vary by up to 4%.

These documents have been created to illustrate changes in travel before and after the Crookes and Walkley 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 control site



We counted the number of motor vehicles passing through Sheaf Street before and after the implementation of the 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.

We looked at the Sheaf Street control site again, taking 12 hour traffic counts here alongside the journey time surveying on Abbeydale Road, both before and after the Active Neighbourhood measures were put in.

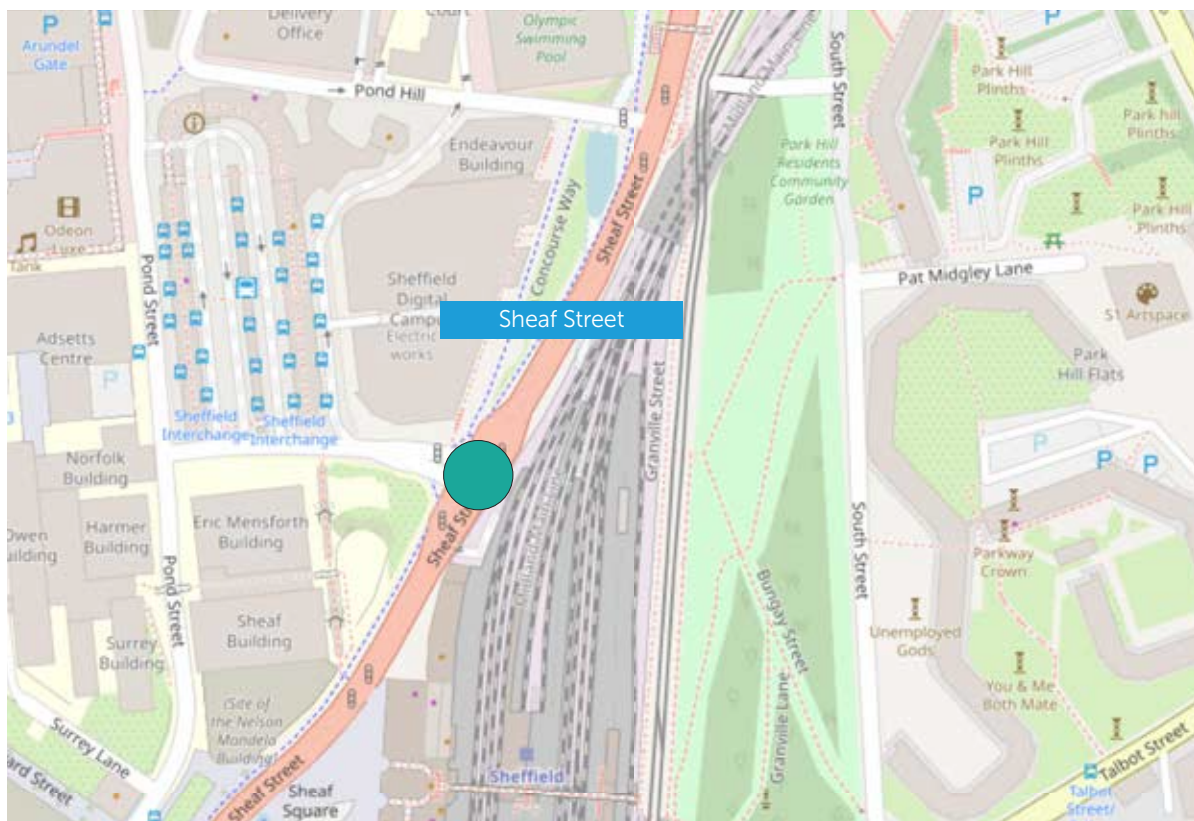
Key

 Location of traffic control site on Sheaf Street

Control site –daily traffic

	Sep – Nov 2021	Sep – Nov 2022	% change	Mar – Apr 2022	Mar – Apr 2023	% change
Total	40,558	39,852	-2%	38,823	39,743	2%

Change in motor vehicle count at city centre control site



We counted the number of motor vehicles passing through Sheaf Street at the same times as the traffic monitoring surveys before and after the implementation of the Crookes and Walkley 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 Crookes and Walkley Active Neighbourhood measures were put in place.

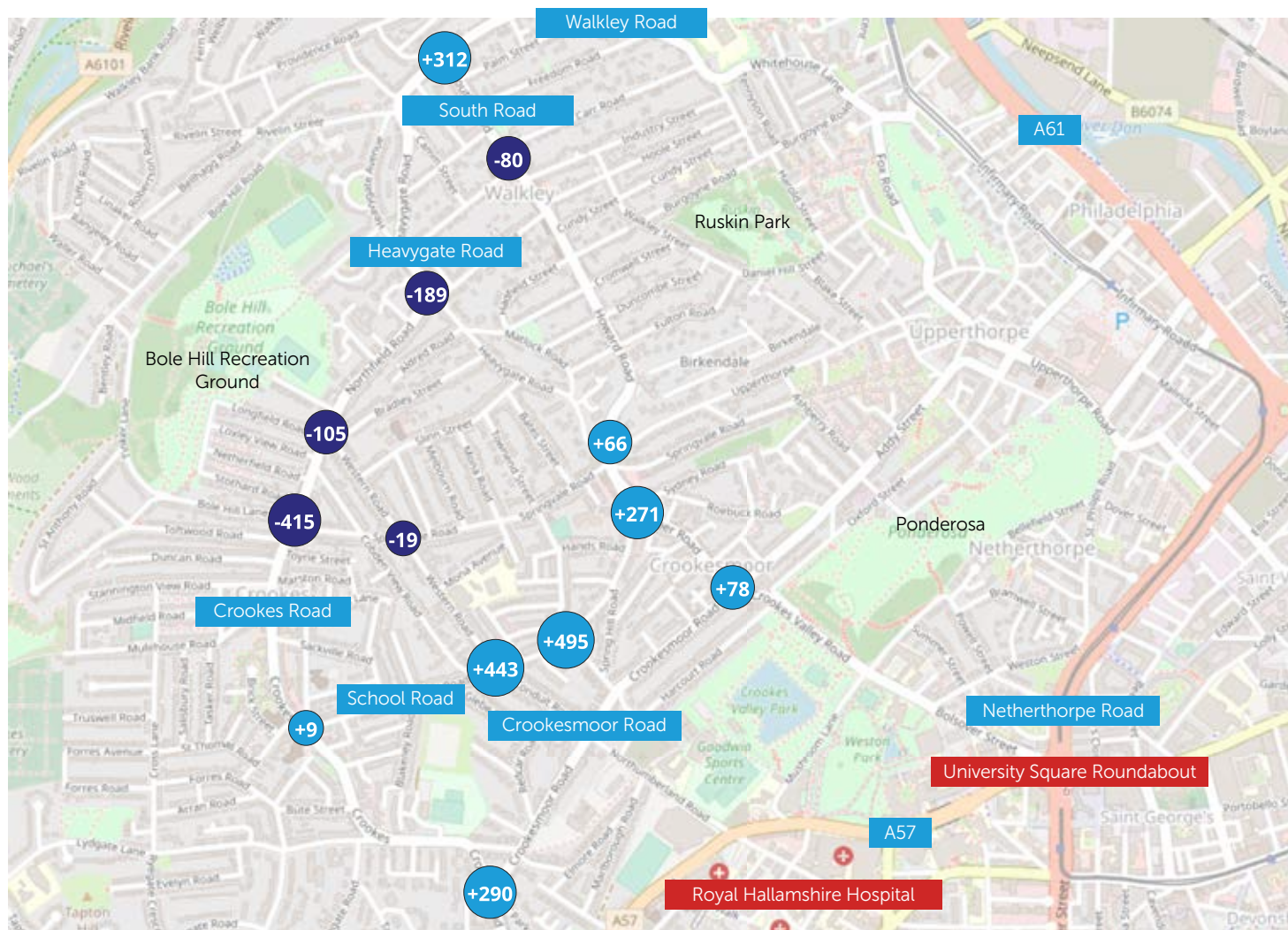
Control site – 12 hour counts			
	Nov 2021 (10th)	May 2023 (10th)	% change
12 hour average (in number of motor vehicles)	41,392	41,488	<1%

Key



Location of traffic control site on Sheaf Street

Number of motor vehicles counted



We counted the number of motor vehicles passing through the Crookes and Walkley Active Neighbourhood.

The circles on this map show the locations where we did traffic counts. The numbers in the circles indicate the change in numbers of motor vehicles between November 2021 and May 2023. Increases are shown in light blue. Decreases are shown in navy blue. No change is shown in green.

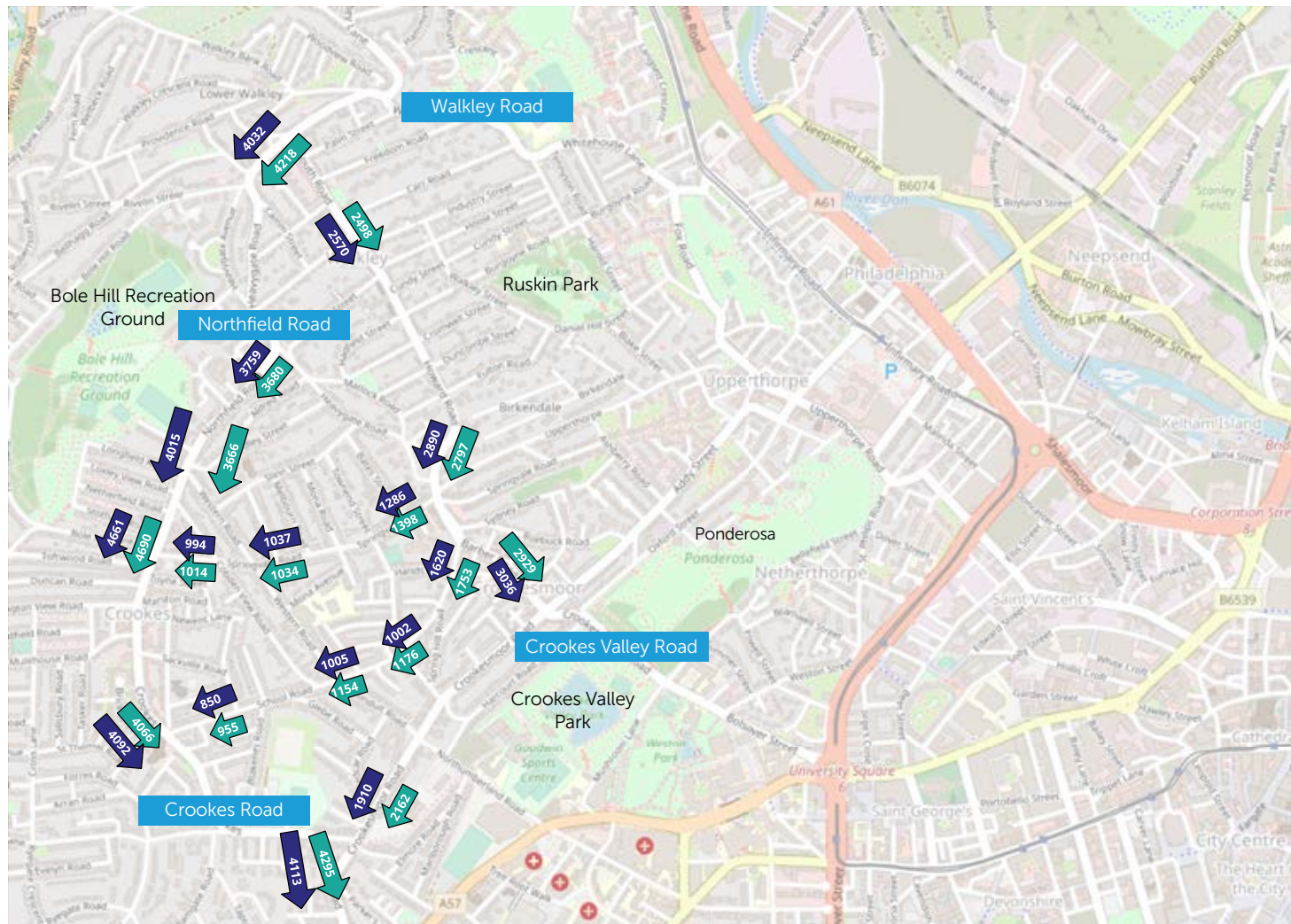
All motor vehicle change data is subject to a 4% possible variation.

Key

Motor vehicle 12 hour change (7am to 7pm)



Number of motor vehicles counted travelling southbound / westbound



Key

➡ Motor vehicle flows over a 12 hour period in November 2021

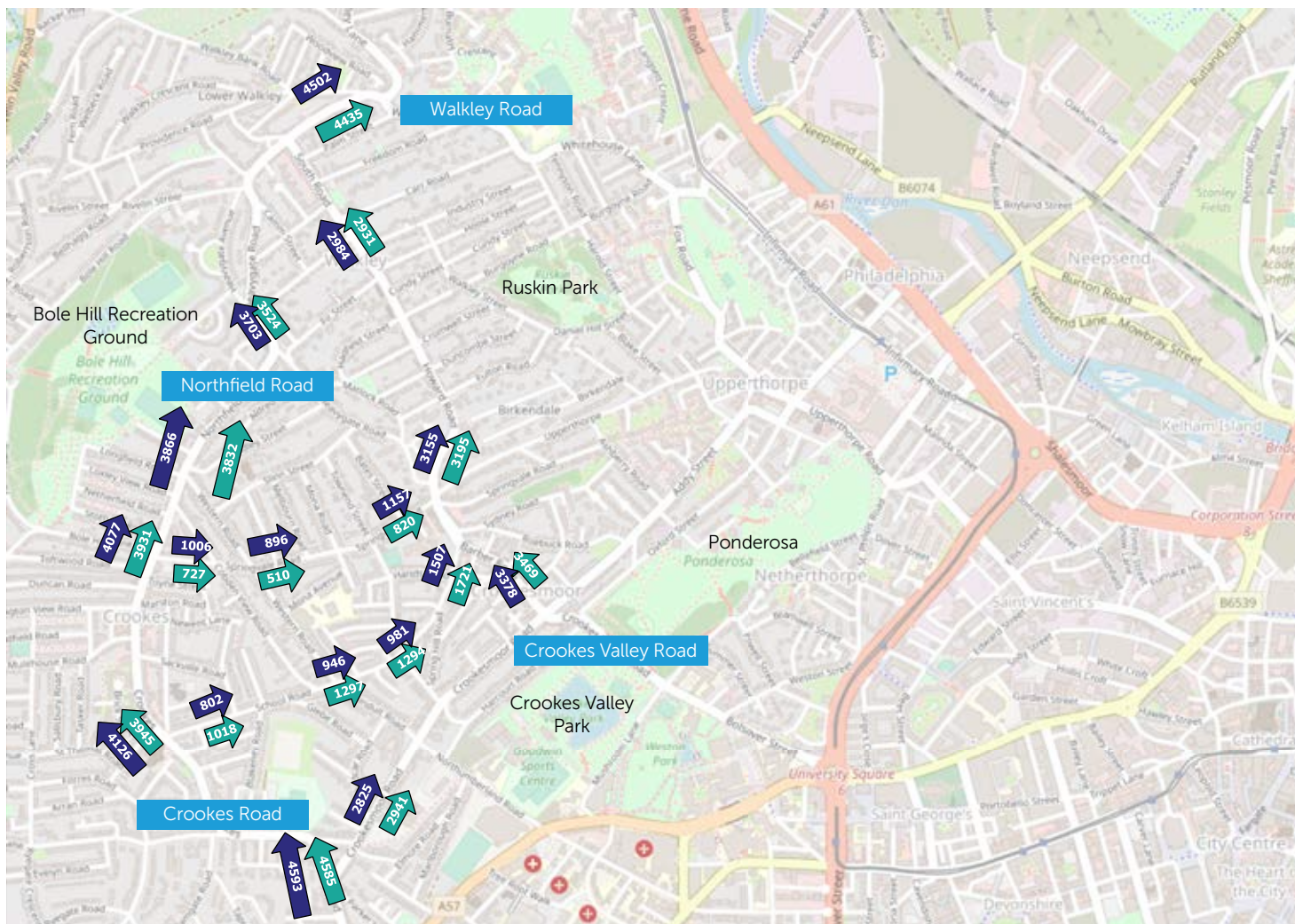
➡ Motor vehicle flows over a 12 hour period in May 2023

We counted the number and direction of motor vehicles passing southbound and westbound through the Crookes and Walkley 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 Crookes and Walkley Active Neighbourhood area.

The navy blue arrows correspond to the vehicles counted in November 2021, while the green arrows correspond to the vehicles counted in May 2023.

Number of motor vehicles counted travelling northbound / eastbound



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

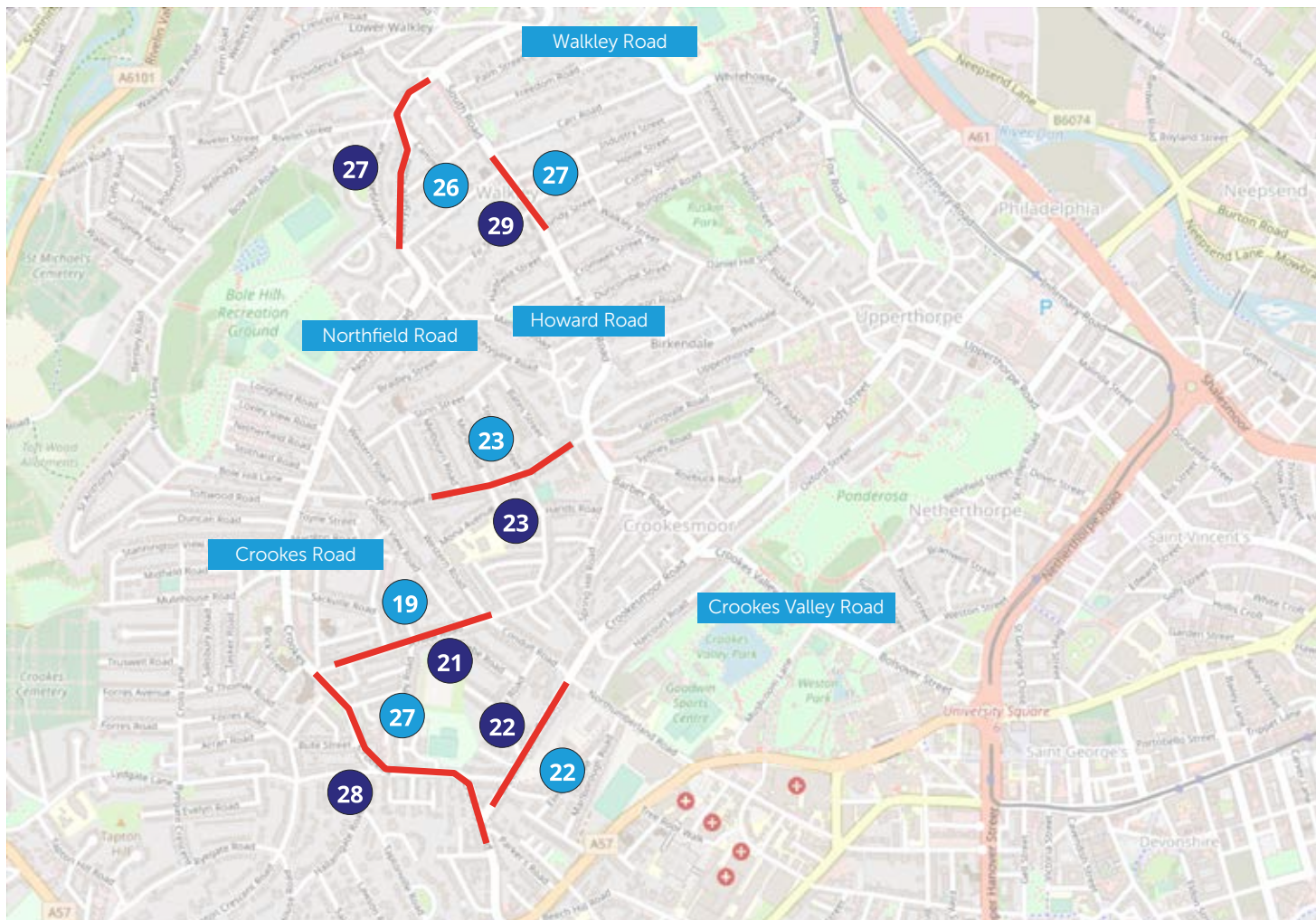
The number and direction of the arrows on the maps show the number and direction of vehicles counted passing through different points in Crookes and Walkley Active Neighbourhood area.

The navy blue arrows correspond to the vehicles counted in November 2021, while the green arrows correspond to the vehicles counted in May 2023.

Key



Speed Data



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

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

Key

Average speed of top 10% of motor vehicles

● Average speed (in MPH) before the Crookes and Walkley Active Neighbourhood measures were introduced (March-April 2022)

● Average speed (in MPH) after the Crookes and Walkley Active Neighbourhood measures were introduced (March-April 2023)

— Sections of road along which traffic speeds were monitored