

Darlaston and Bentley Area Panel
CCTV Camera Locations
Tuesday 30th June 2015

Introduction

This report seeks to obtain the view of the Darlaston and Bentley Area Panel on the location and effectiveness of fixed CCTV cameras within its Area Partnership and also on the effectiveness of the current re deployable camera stock. This information will be used to inform an options review of the CCTV infrastructure within Walsall to be undertaken in the near future.

Report

1. Background

- 1.1 Walsall Council's CCTV Service monitors 91 fixed cameras located within a number of areas of the borough. The Control Room is located within the Streets Corner Response Centre at Walsall Wood and in addition to the fixed cameras manages and monitors 28 re deployable cameras for various council departments. The CCTV Control Room is manned 365 days a year with at least one operator always being on duty. The council also owns a number of covert cameras used to tackle specific issues including for example fly tipping.
- 1.2 Due the passing of time and technological progress it is recognised that much of the existing CCTV infrastructure and equipment is now in need of upgrade to ensure that Walsall benefits from an up to date and effective system. The re deployable stock (Domehawk and Apache Cameras) in particular is approaching the end of its working life and it is important that re deployable cameras continue to be available to support a range of enforcement and reassurance activity.
- 1.3 In order that this complex task is done in the most effective way a specialist consultant is to be commissioned to undertake an evaluation of the current infrastructure and equipment and to produce a full options appraisal as to the possible and best way forward. These options could include a capital investment by the council, commissioning a third party to manage/provide the system or entering into a shared services arrangement. Importantly the review will include consideration of the technical capabilities of our existing CCTV systems and the way in which these can be upgraded in line with technological advancements.
- 1.4 Any review of the current system will of course include consideration of the existing cameras, their location and the level of usage for each unit. It is of interest that it is estimated that each fixed camera costs in the region of £1500 per year and that since the fixed cameras were originally installed technology in relation to re deployable cameras that can be moved around the borough as required has moved on significantly. To assist with this analysis the Walsall Intelligence Network has produced a detailed report on CCTV usage which has been used to inform this report. Please see **appendix A** which is referred to throughout this report.

- 1.5 The consideration and evaluation of data paints one part of the overall picture but local intelligence and the views of key stakeholders are also important and will be used to inform the process. To support this Elected Members and Area Panels are to be consulted such that their views can be obtained.

2.0 Walsall's CCTV System

- 2.1 Walsall's 91 fixed cameras are located within five of the boroughs six Area Partnerships and for evaluation purposes have been clustered accordingly. Streetly, Pheasey and Aldridge is the only Area Partnership in which none of the fixed cameras are located. Map 1 of the appended report shows the location of all fixed CCTV cameras across the borough in addition to re-deployable (Domehawk and Apache) deployments made over a 4.5 year period. It is of note that a number of these will be repeat locations to which a camera has been deployed on more than one occasion. Table 1 of the report shows unsurprisingly that the majority of the cameras (44%) are located in and around central Walsall whilst Darlaston has the smallest number (8%).
- 2.2 The CCTV Control Room records the number of incidents captured by each camera and Table 2 details that over a three year period to June 2015 a total of 15,131 incidents have been captured. Of these the vast majority (89%) relate to the Walsall camera Cluster with the least number (1%) captured in Darlaston, albeit this is unsurprising due to the smaller number of cameras in that area. The Willenhall cluster accounts for 4% whilst the Brownhills and Bloxwich clusters each account for 3%. Across the borough the top three incident types captured by the cameras are Suspicion (17%), Public Order (15%) and Anti-Social Behaviour (14%). Despite the large number of incidents captured the number of occasions when data has following an incident taking place been copied to tape or DVD for use in a subsequent investigation is 1406 over the 3 year period.
- 2.3 To support analysis a series of maps that detail incidents of crime, violent crime and anti-social behaviour over a three year period have been produced. These maps have been provided at a borough wide (on pages 7 and 8 of the report) and camera cluster level and show hot spots of activity against camera locations. The mapping at a borough wide level shows that generally fixed cameras have been appropriately located within key hotspot areas. It is inevitable that not all hot spots are covered by fixed cameras, however there is a strong correlation between these locations and the use of the re deployable cameras. This demonstrates the usefulness of this more flexible resource.

3.0 Darlaston & Bentley Area Partnership

- 3.1 The Darlaston & Bentley Area Partnership has 7 fixed CCTV cameras that are located in and around Darlaston Town Centre. Over a three year period (please see table 2) from June 2012 to May 2015 these cameras captured 220 incidents which equates to 1% of the borough total.
- 3.2 The maps on pages 15-16 of Appendix A detail hot spots for Violence with Injury, Committed Crime and Anti Social Behaviour around this camera cluster. At this more focussed level the maps indicate that the majority of cameras are in locations that are directly within identified hot spots for these crime/incident types. The remaining

cameras, falling within or on the edge of locations with at least marginally higher incidents of crime/anti-social behaviour.

- 3.3 The map at the top of page 15 details the location of fixed CCTV cameras and Domehawk/Apache deployments over a three year period. This shows clearly that there have been a number of these mobile CCTV cameras deployed across the Area Partnership. These will have been utilised at problem locations/hot spots not covered by the fixed cameras and supports the need to maintain and or extend our re deployable CCTV capability.
- 3.4 Appendix 1 of the WIN report details on page 22 details the number of incidents captured by camera. It is of note that despite falling within a hot spot for Committed Crime over the three year period in question two of the cameras (91 and 95) have captured 16 and 14 incidents respectively over the previous 3 years with cameras 94 and 95 capturing no incidents since November 2014.
- 3.5 Table 4 records that the top three incident types captured by the camera's in Darlaston are Suspicion, Anti-Social Behaviour and Missing Person. The number of days lost through faults is at 213.7 over the three year period 10th June 2012 to 10th June 2015. This is relatively high as there are only 8% of the total cameras within this area.
- 3.6 This report summarises the analysis produced by the WIN and is intended to inform discussion at the Area Panel. Comments and observations made by the panel will be fed into the evaluation to be undertaken and are an important part of the process.

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Analysis of CCTV usage

June 2015

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A Walsall Intelligence Network (WIN) collaboration

Back ground

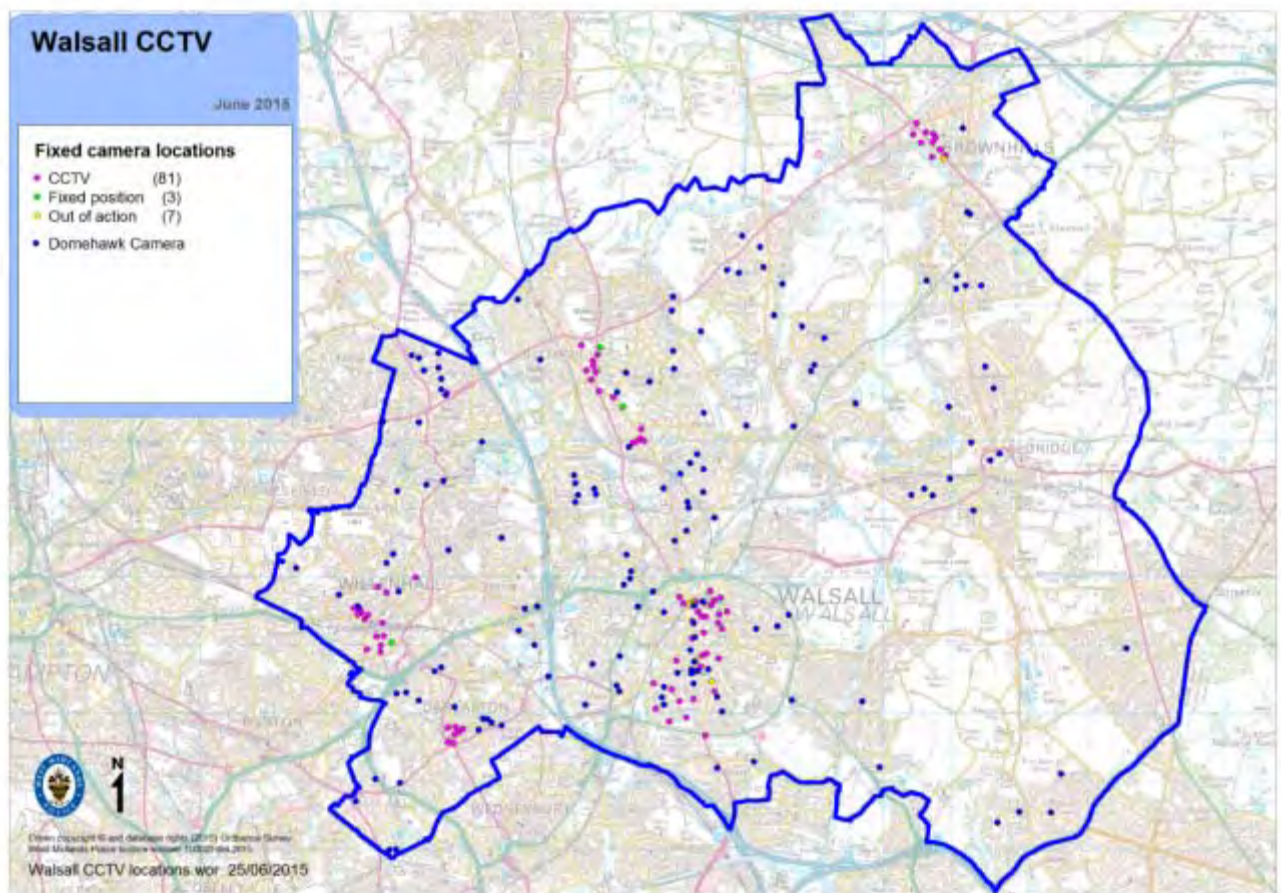
Source information used for this analysis is based upon a list of fixed cameras within scope of this analysis as at June 2015; of which there are 91 cameras in total.

Fixed camera locations are mapped against three key datasets, Violence with Injury, Committed Crime and Anti-Social Behaviour (ASB).

Domehawk camera locations are also mapped. These cameras have been used to cover tasking hotspot areas with data on their use included from December 2010 to date.

It includes analysis of fixed camera footage incidents in a three year period between June 2012 to June 2015; detailing incidences for each camera from which an incident is recorded, hence from 87 cameras including incident date and reason description (category name).

Map 1 below shows where fixed and domehawk cameras are situated within the borough.



Incidents Dataset Analysis

In total there were 15,131 camera incidents within the dataset¹. See **Appendix 1a** for summary list of fixed cameras from which incidents have been recorded with a corresponding total number per camera recorded within the three year period.

For ease of analysis the cameras have been divided into five geographic camera 'clusters';

- Walsall Town Centre/Caldmore/Palfrey,
- Bloxwich,
- Brownhills,
- Darlaston and
- Willenhall. This excludes camera #83 Lichfield Square Car Park, New Invention as this camera stands out on its own, is recently installed and hasn't recorded any incidences as yet.

Analysis of the camera incidence dataset shows the extent to which cameras are being used, and the reasons for their use based on the incidents recorded from them.

Cameras within the Walsall Town Centre cluster are, when taken together, the most used cameras within the borough. Just under half (44%) of all cameras are located within the Walsall camera cluster and these cameras account for the vast majority (89%) of camera footage 'incidence' recorded. **Table 1**.

Table 1 Number of cameras within cluster and total incidents recorded 11/06/2012 to 11/06/2015.				
Camera Cluster	Number of cameras	% of cameras	Number of camera incidents	% of total incidents
Walsall TC / Palfrey / Caldmore Cluster	37	44%	13513	89%
Willenhall Cluster	17	18%	581	4%
Brownhills Cluster	11	13%	409	3%
Bloxwich / Leamore Cluster	15	18%	408	3%
Darlaston Cluster	7	8%	220	1%
SubTotal	87			
Camera with no incidents but mapped	4	n/a	n/a	n/a
Grand Total	91	100%	15131	100%

There are 4 cameras from which no incidents have been recorded within the three year period and hence do not feature in the incident analysis; these are #41 and #42 (Butlers Passage), #83 Lichfield Square Car Park, New Invention and #131 Dover House, Providence Lane, Bloxwich.

However usage differs within cluster area depending on individual camera location. Most incidents (2626) were taken from, aptly numbered, Camera 007 The Bridge, the least used working camera is 132 Providence House, Bloxwich; recorded from once in March 2014. A small number of cameras have at some point ceased working (see Appendix 1 notes).

The year on year usage of cameras within broad clusters shows that overall incidents peaked in the middle 12 month period, but overall has remained fairly consistent over time, although overall usage in Brownhills appears to have declined over the last three years.

Table 2.

Table 2: Camera incidents; 12 months 11th June to 10th May (Year on Year) comparison				
Camera Cluster	11/06/2012 to 10/06/2013	11/06/2013 to 10/06/2014	11/06/2014 to 10/06/2015	total
Walsall Cluster	4422	4741	4350	13,513
Willenhall Cluster	145	240	196	581
Brownhills Cluster	173	161	75	409
Bloxwich Cluster	108	153	147	408
Darlaston Cluster	61	94	65	220
Grand Total	4909	5389	4833	15131

When incidents are recorded from cameras, a category name code is assigned indicating a general reason for the incident. Across all cameras, and hence the borough, the top three reasons for incidence are Suspicion, Public Order and Anti-social Behaviour (ASB). **Table 3.**

Table 3: Reason for incidence by category name		
Reason for incident	No of Incidents	% of total
Suspicion	2551	17%
Public Order	2306	15%
Anti Social Behaviour	2185	14%
Cash In Transit	1302	9%
Theft	1240	8%
Intelligence	1126	7%
Assault	888	6%
Missing Person	822	5%
Medical	572	4%
Unknown Offence	524	3%
Traffic	335	2%
Robbery	322	2%
Offensive Weapons	216	1%
Drugs	182	1%
Criminal Damage	161	1%
Burglary	141	1%
Fire	72	0%

Sexual Offence	71	0%
Wanted	37	0%
Vehicle Crime	26	0%
Fraud	23	0%
Fly Tipping / Fly Posting / Littering	16	0%
Major Incident	13	0%
Grand Total	15131	100%

The reason for Incidents differs overall within Custer and by individual camera. (see **Appendix 2** more detailed individual cluster analysis) but in summary the top three reasons by volume for Incident within each cluster are:

Table 4: Top 3 reasons for Incident by Cluster	
Walsall Cluster	<ul style="list-style-type: none"> • Suspicion (2,293) • Public Order (2,147) • Anti-social behaviour (ASB) (2,048)
Willenhall	<ul style="list-style-type: none"> • Suspicion (120) • Missing Person (70) • Cash in transit (69)
Brownhills	<ul style="list-style-type: none"> • Suspicion (69) • Missing Person (59) • Public Order (43)
Bloxwich Cluster	<ul style="list-style-type: none"> • Cash in transit (56) • Public Order (52) • Theft (42)
Darlaston	<ul style="list-style-type: none"> • Suspicion (38) • Anti-social behaviour (ASB) (36) • Missing Person (28)

Most cameras have been recently used to record incidence footage; there are 25 cameras that haven't been used recently, i.e. during 2015. Noting that for 8 of these, this is where cameras are no longer in situ or functioning.

Of the remaining working cameras not recorded from recently;

- 5 fall within the Walsall Cluster, 2 within the town centre (#13 Goodall Street and #11 Lower Market), 3 in the Palfrey area (#113 Dale Street/Park, #112, Dale Street, # 116 New Mill Street).
- 7 within Willenhall (#75 Rose Hill, #81 Wolverhampton Rd, #78 Parkes Street, #77 Tyler Road, #76 Harthill Street, #79 Tyler Gardens, # 72 Lower Lichfield Street)
- 1 in Brownhills(#54 Silver Street)
- 2 in Bloxwich (#147 Sandbank, #132, Providence House, #133 Cromwell House)

- 1 in Darlaston (#95 Mallows Close)

Last incident record dates for each camera are detailed in **Appendix 1**.

Camera Downtime

The table below indicates the number of equivalent days lost overall in recording time due to camera fault.

Days lost due to camera faults 11/06/2012 to 11/06/2015	
Fixed camera area	Day lost
Walsall Town Centre	237
Brownhills	50.2
Willenhall	407.3
Darlaston	213.7
Caldmore	182.1
Palfrey	417.5
Bloxwich	1460
Total	2967.8

Mapping analysis

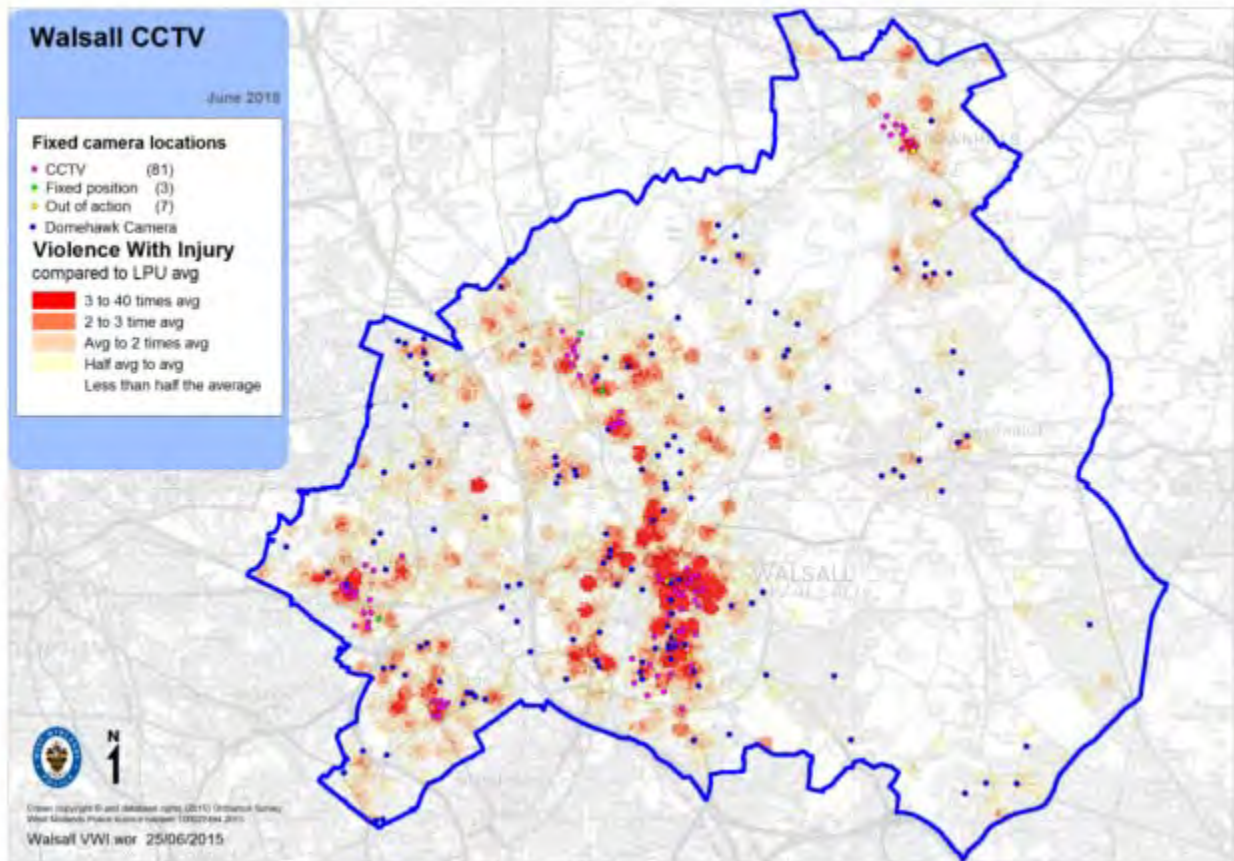
A series of maps containing mapped information have been produced, this helps assess whether cameras have been located in appropriate locations. The maps layer camera locations with three key datasets displayed as hotspot maps, at borough level (including fixed and domehawk locations) and enlarged scale for each of the camera cluster areas (fixed camera locations only).

The data plotted is;

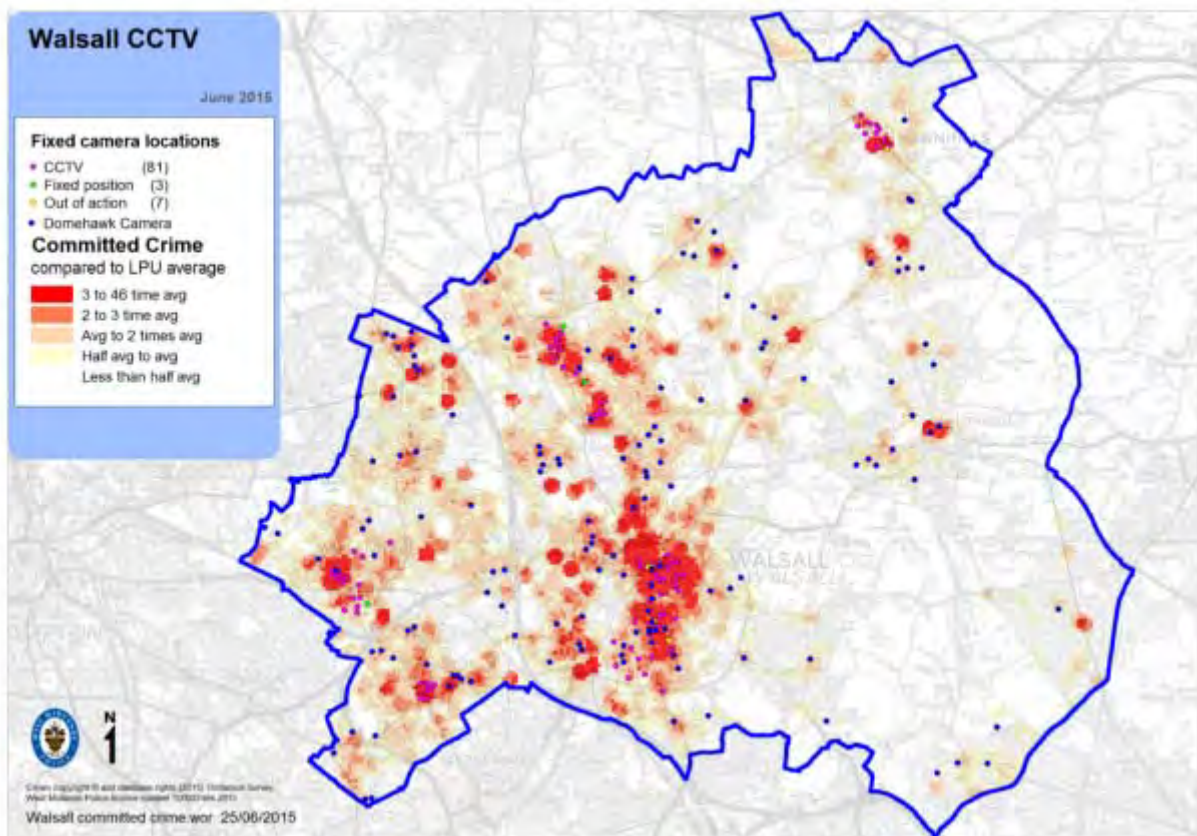
- Incidence of Violence with Injury (VWI) and Incidence of Committed Crime (CC); both covering period June 2012 to May 2015; source Walsall LPU.
- Incidence of Anti-Social Behaviour from an all partner ASB dataset used for monthly area tasking for period Sept 2013 to May 2015; Source: Walsall Partnership, Area Tasking dataset.

Domehawk cameras are deployable cameras used since December 2010 to date to cover tasking hotspot areas. During this time there have been 205 deployments, covering 148 individual locations across the borough. (**Appendix 1b**)

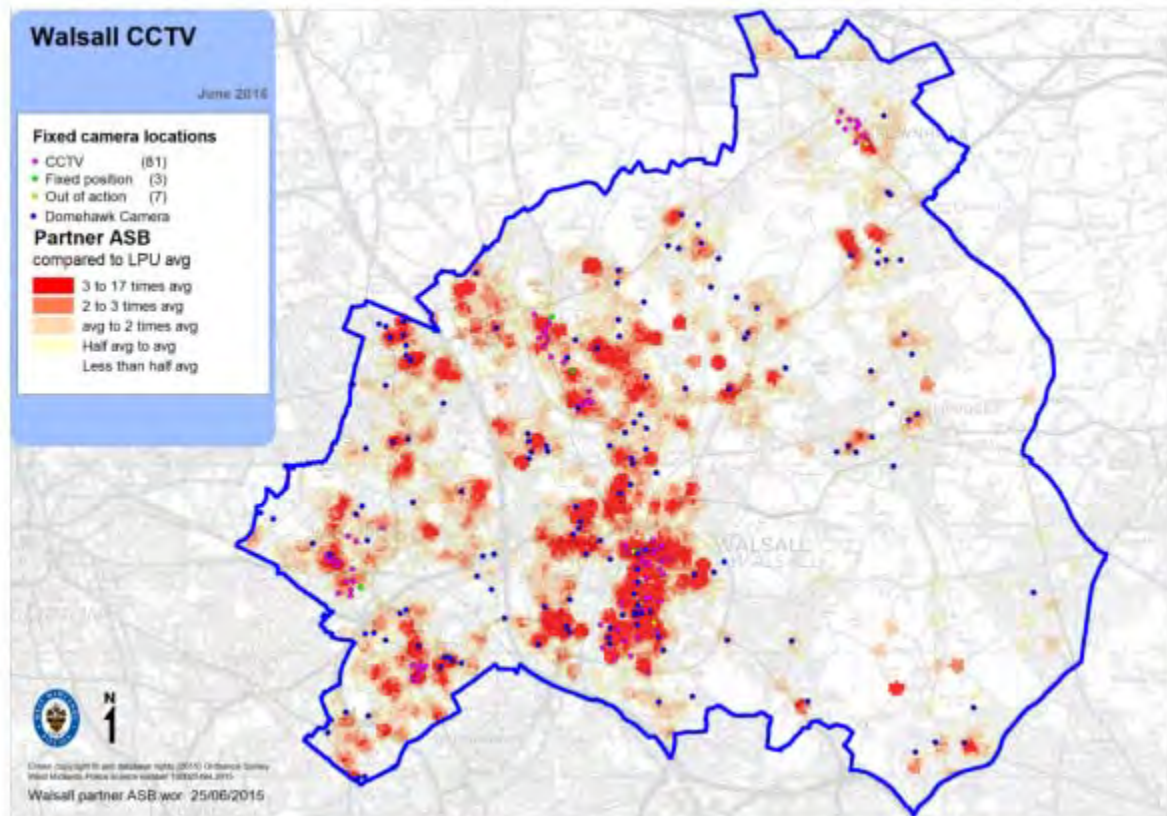
Borough wide hotspot map of Violence with Injury (VWI)



Borough wide hotspot map of Committed Crime (CC)



Borough wide hotspot map of Anti-social behaviour (ASB)



This mapping shows that generally, the fixed cameras have, at borough level, been appropriately located within key hotspot areas. Inevitably, there will be some hotspot areas that are not covered with fixed cameras. However, there is also a good correlation between the domehawk cameras and hotspots not covered by fixed camera.

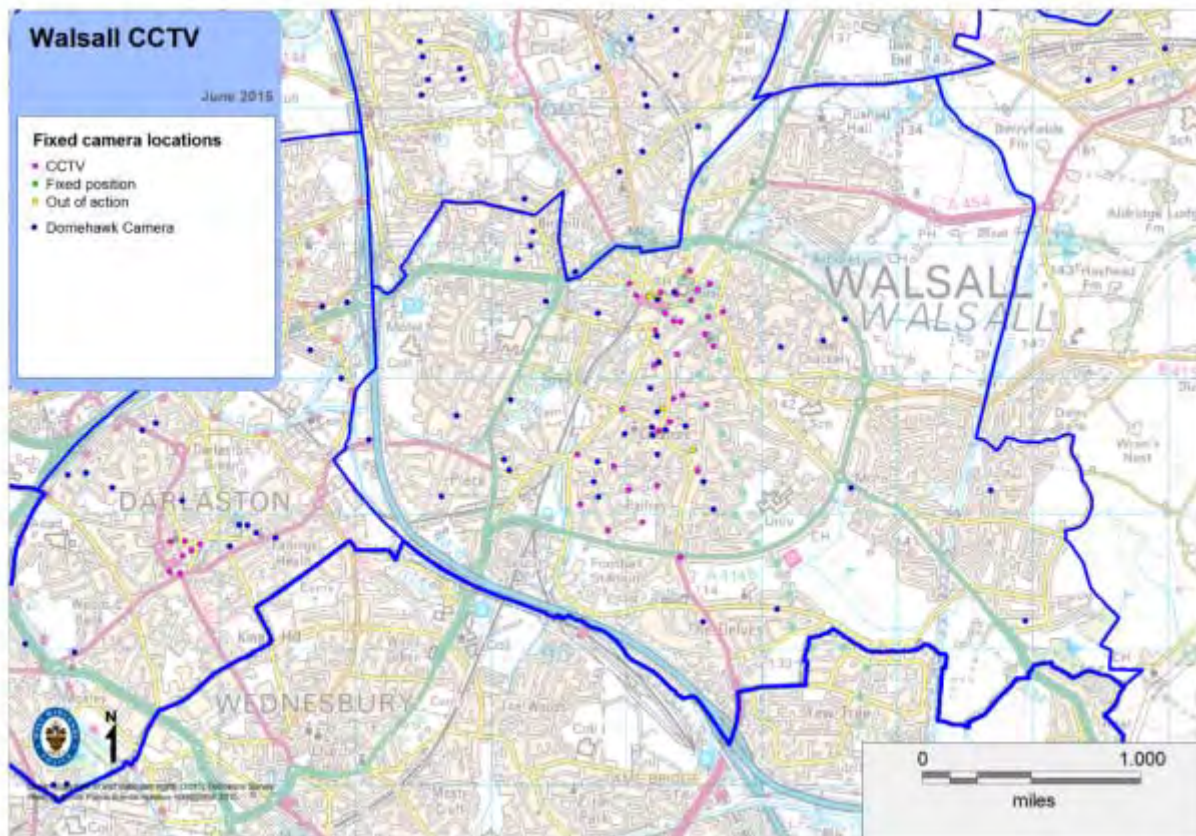
It is also important to note that given the three year period of data used to plot hotspots, some of the hotspots may have occurred 'a moment in time' and are hence historical. To understand these areas further would require more investigation of the data.

There follows a series of larger scale maps representing the hotspot data and fixed camera locations for each of the Camera Cluster areas.

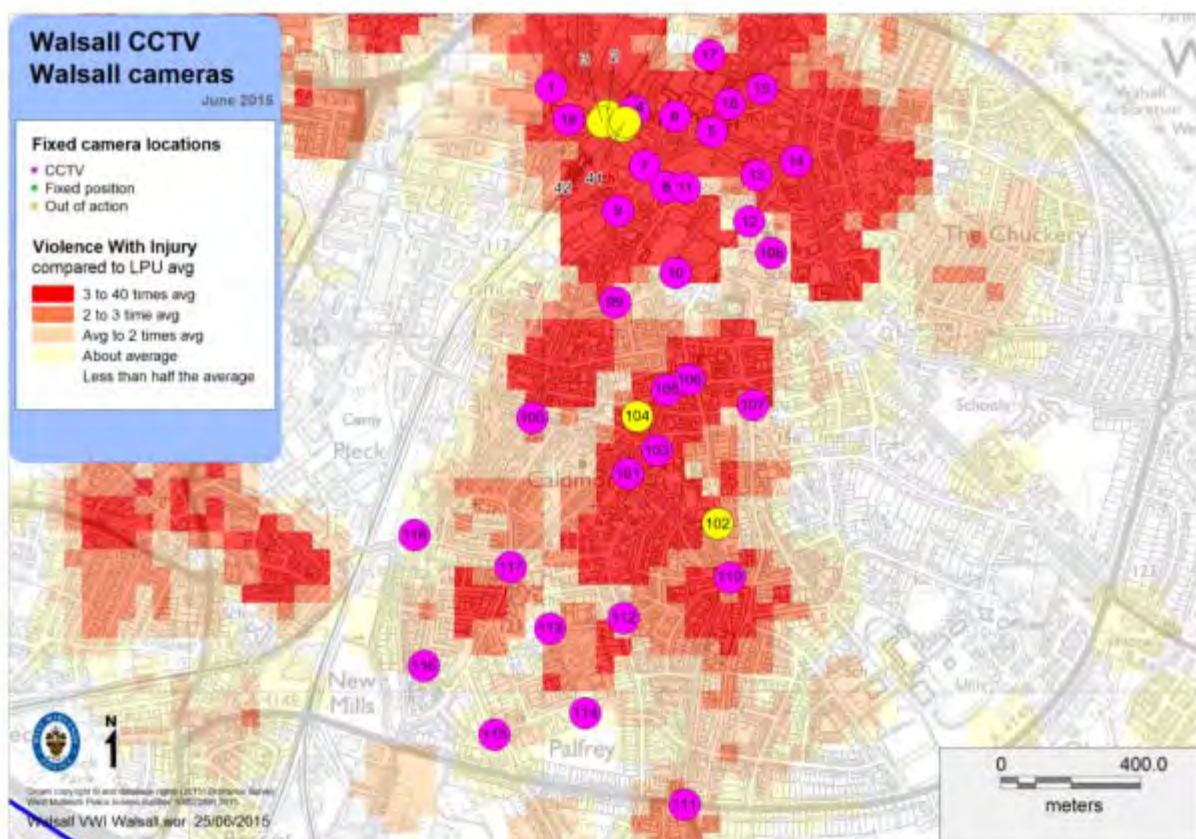
These maps show in more detail that overall the locations of fixed cameras correlate well with core hotspot areas. Again where that is not the case, often these hotspots have at some point been covered by Domehawk Camera deployment.

More investigation might be beneficial to understanding the nature of issues within key hotspots to determine if the hotspots are covered well enough by the existing fixed camera network should locations change in the future.

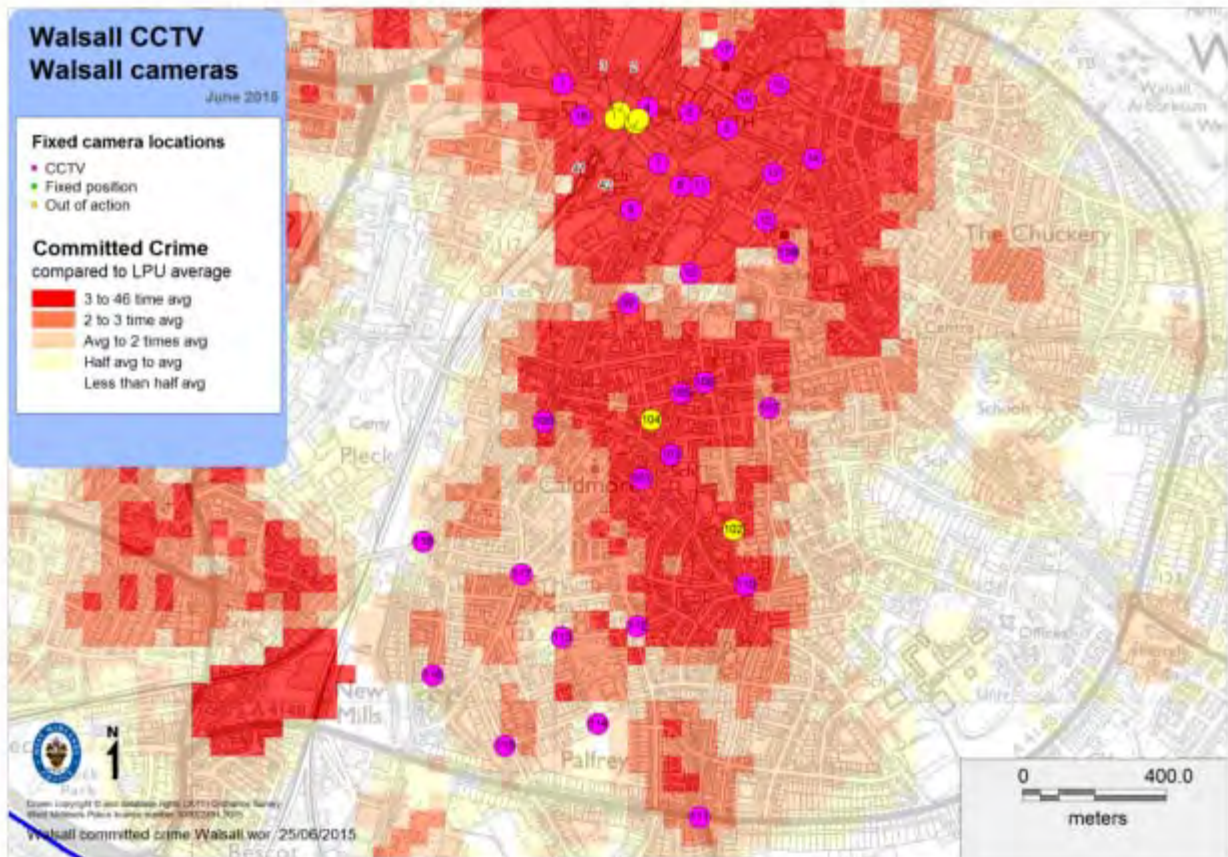
Walsall South Area Partnership – Fixed and Domehawk camera locations



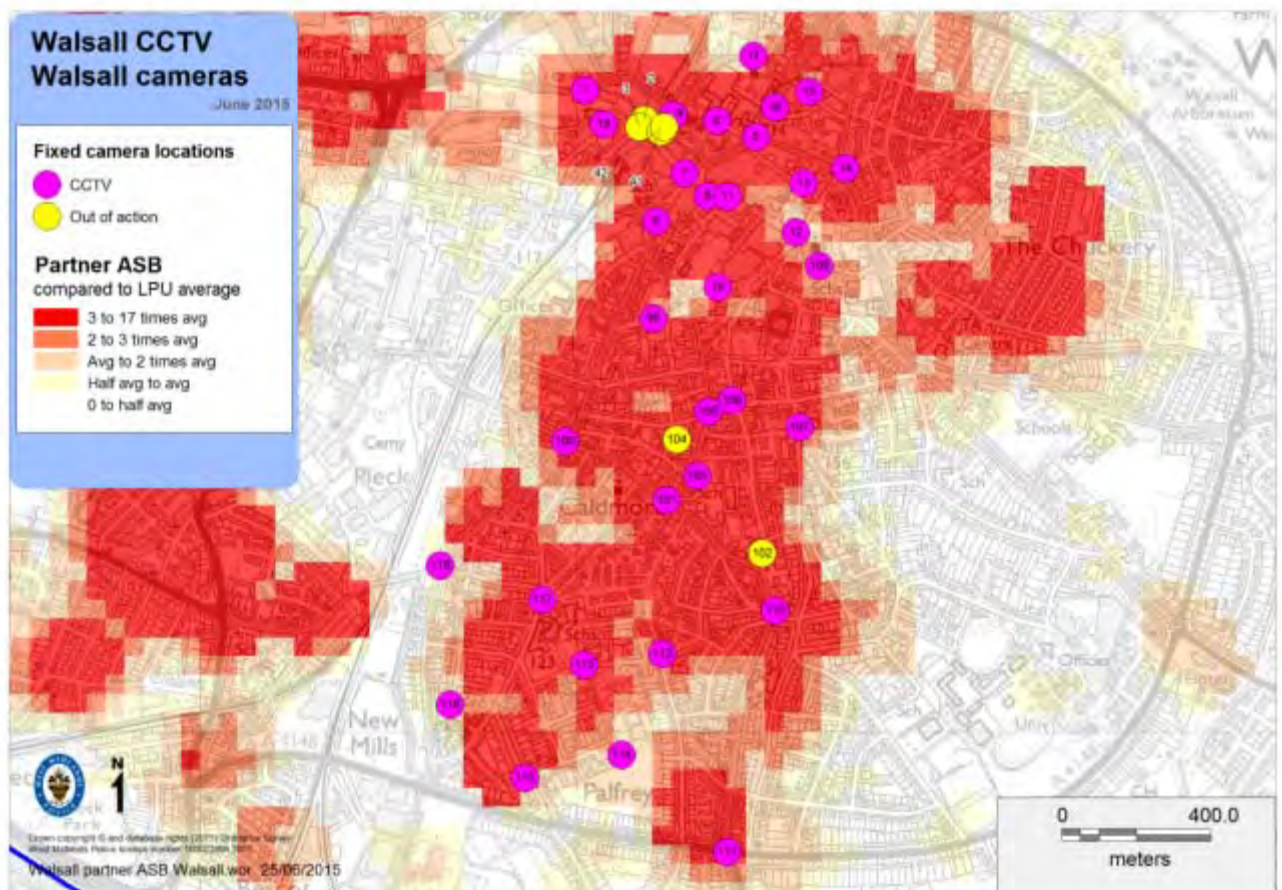
Walsall town Centre/ Palfrey/Caldmore cluster area Violence with Injury



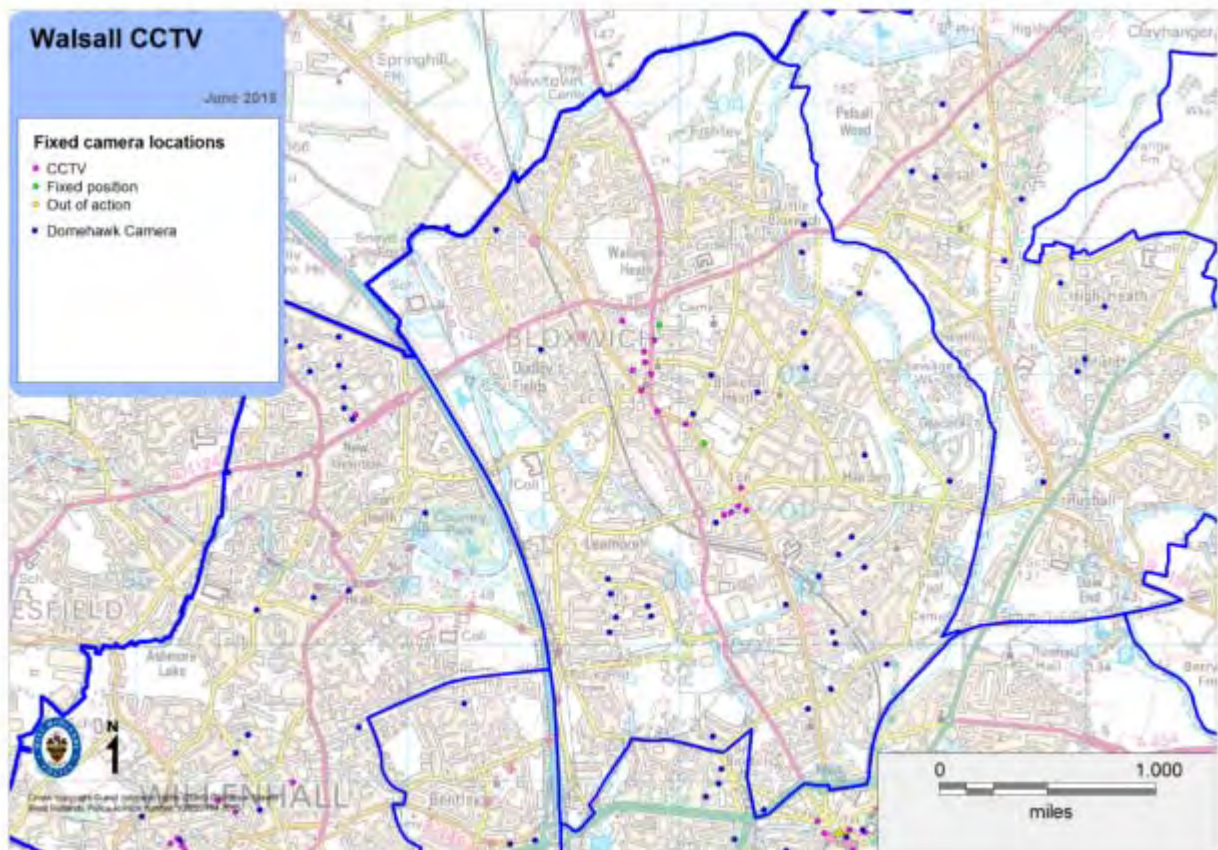
Committed Crime



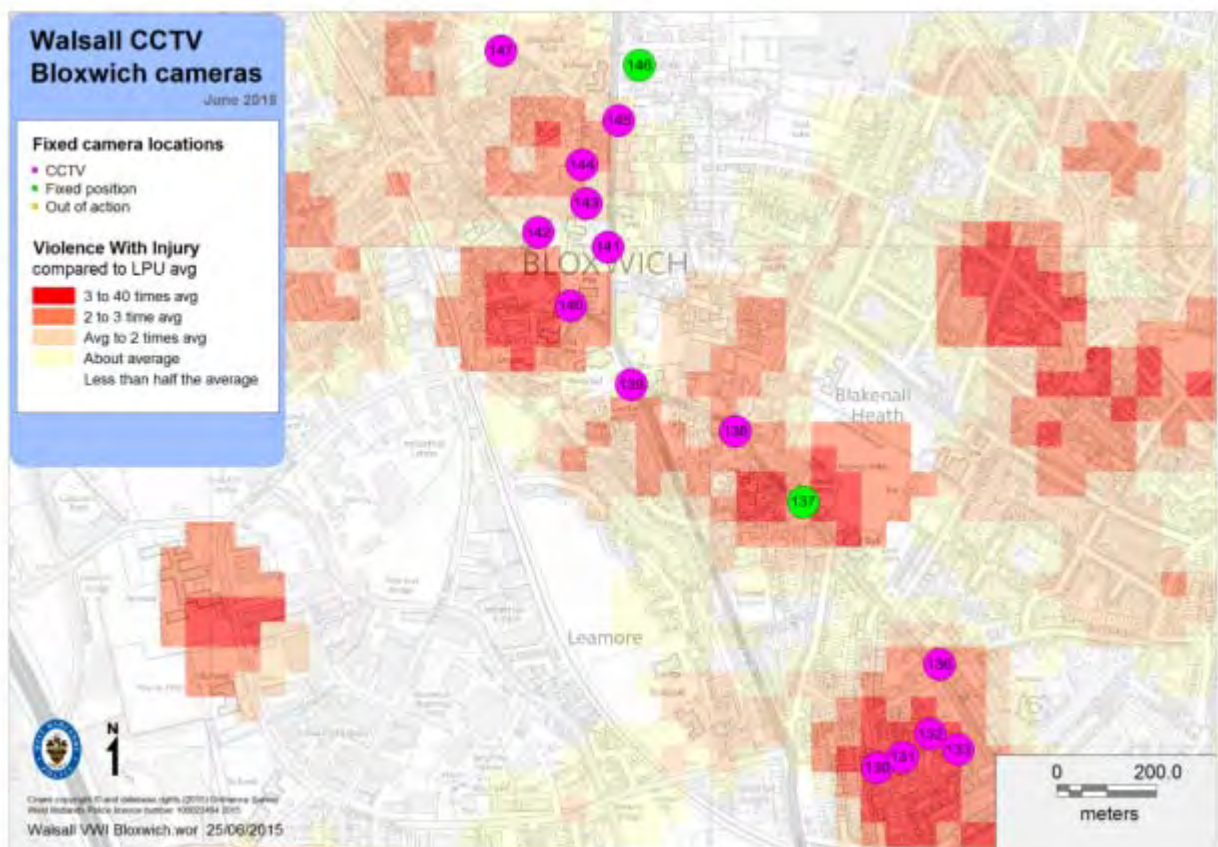
ASB



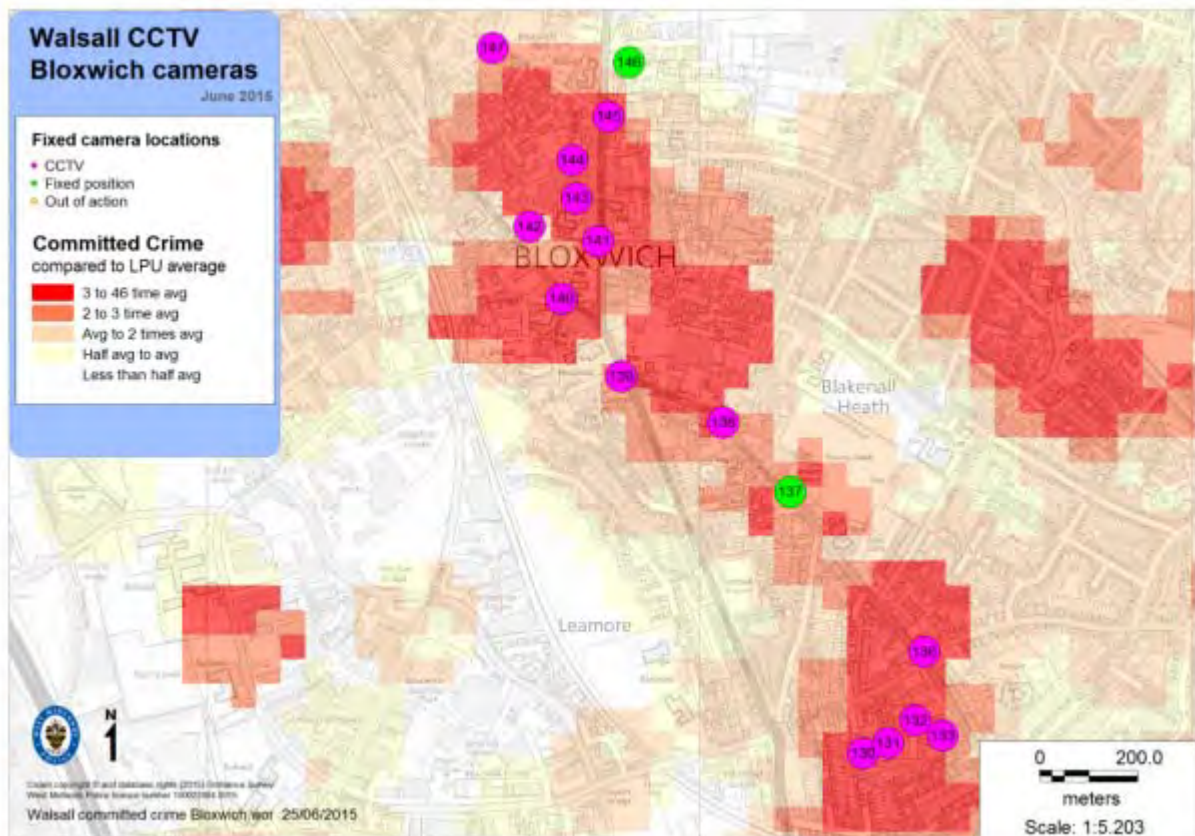
Walsall North Area Partnership – Fixed and Domehawk camera locations



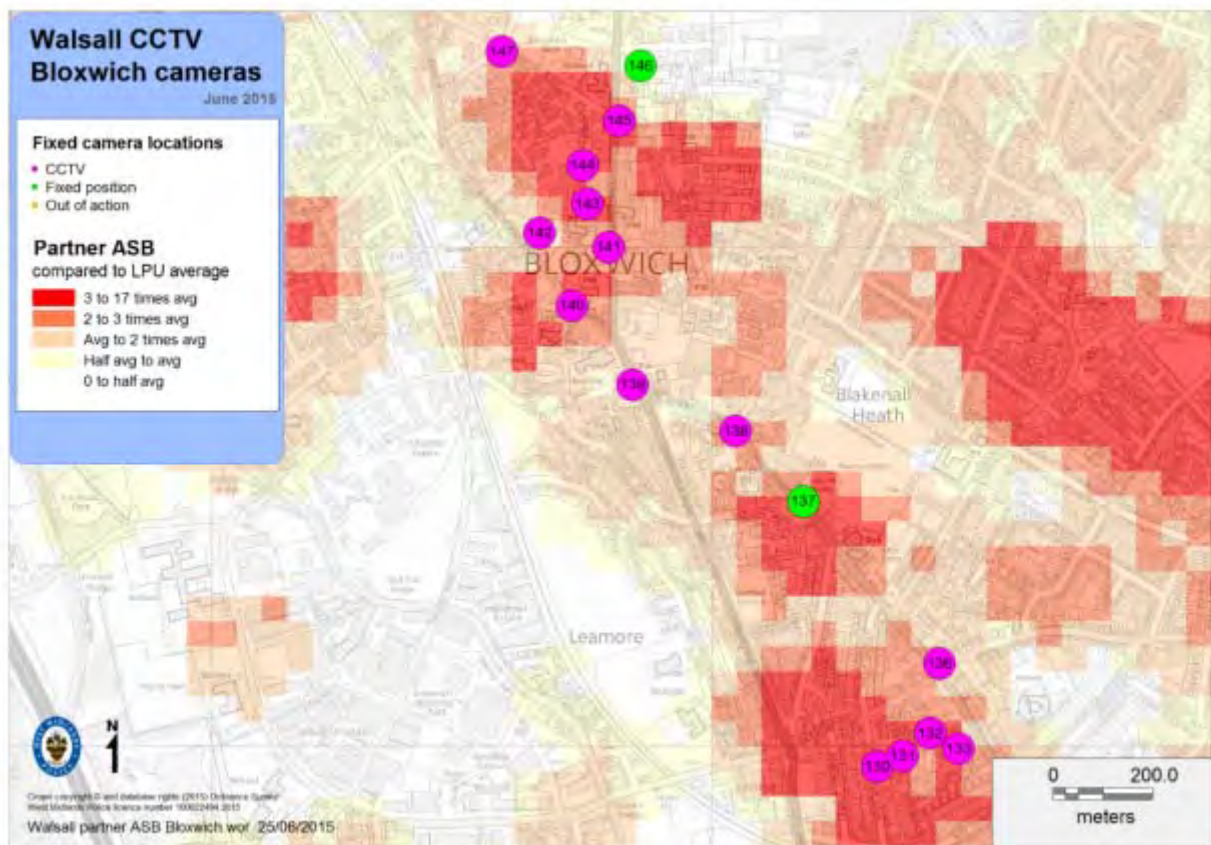
Bloxwich Camera Cluster Area Violence with injury



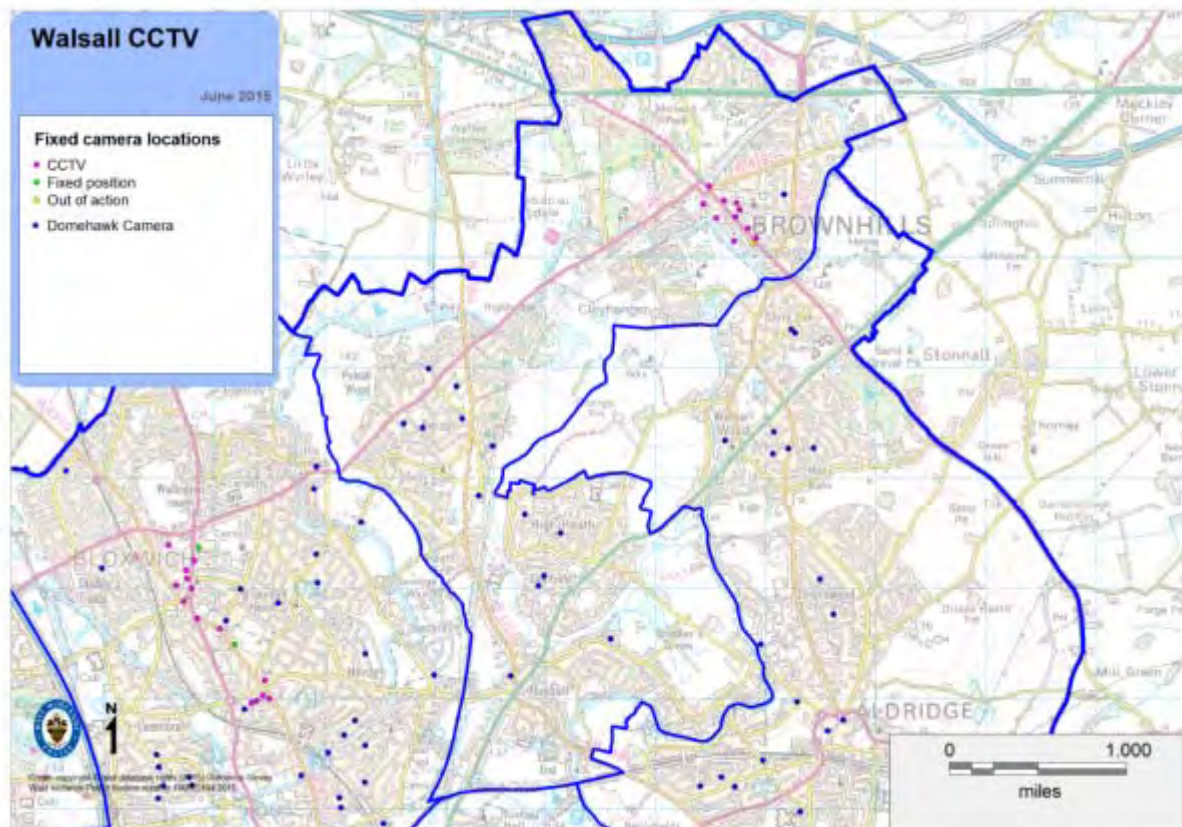
Committed Crime



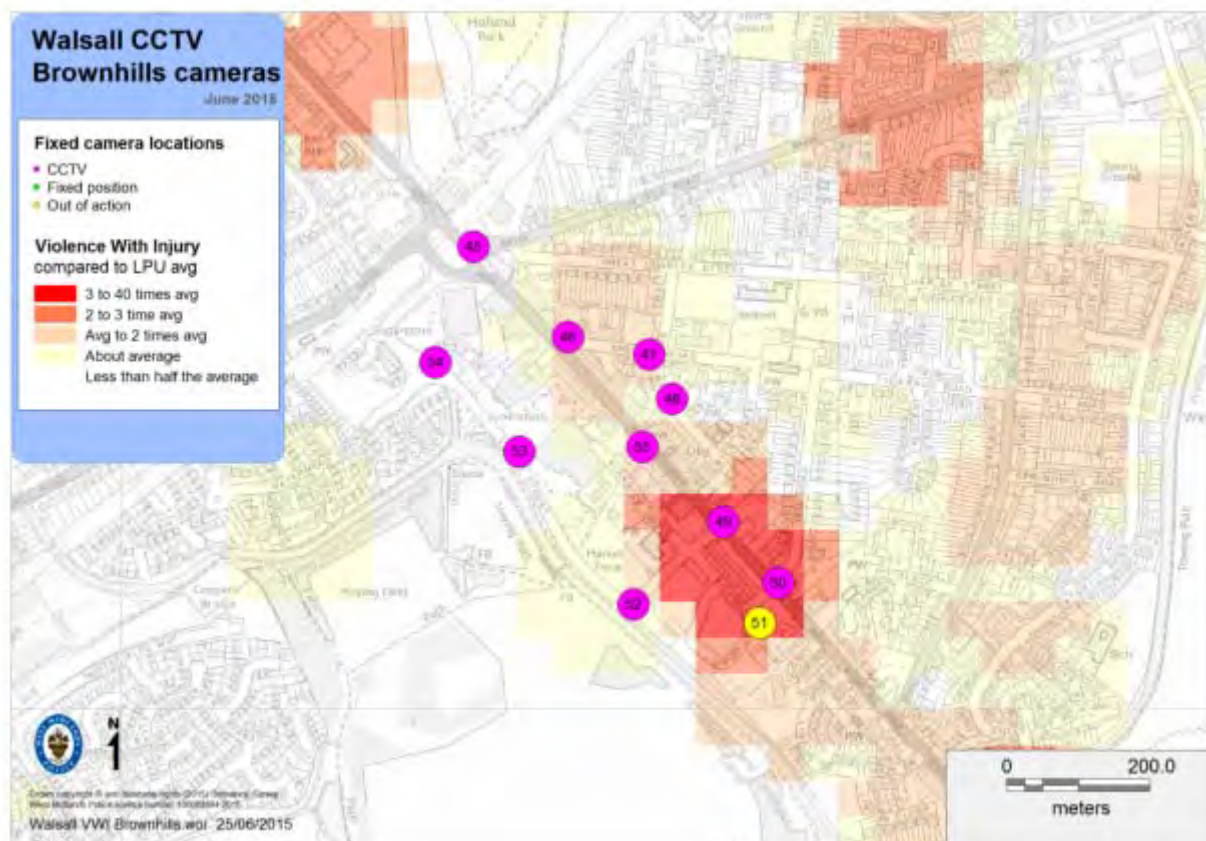
ASB



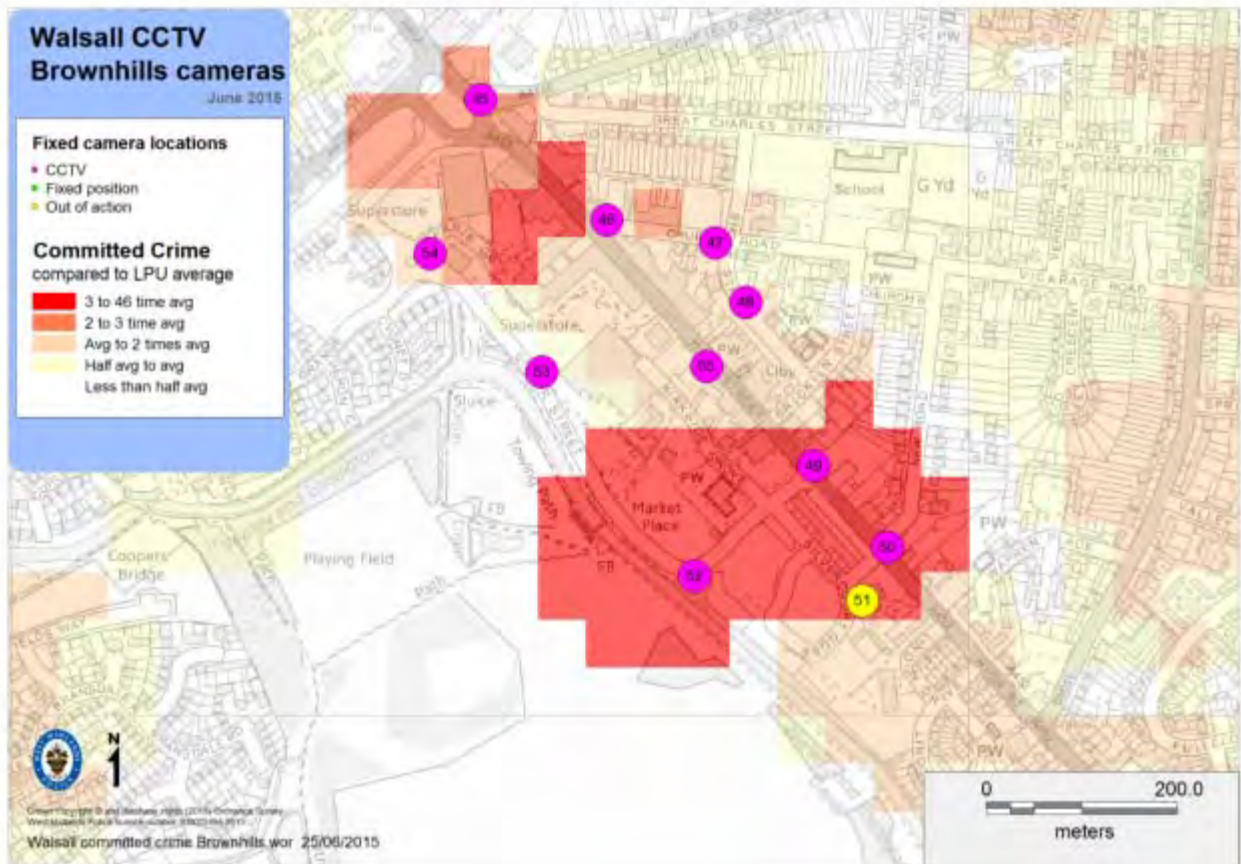
Sheffield/Rushall/Brownhills/Pelsall Area Partnership – Fixed and Domehawk camera locations



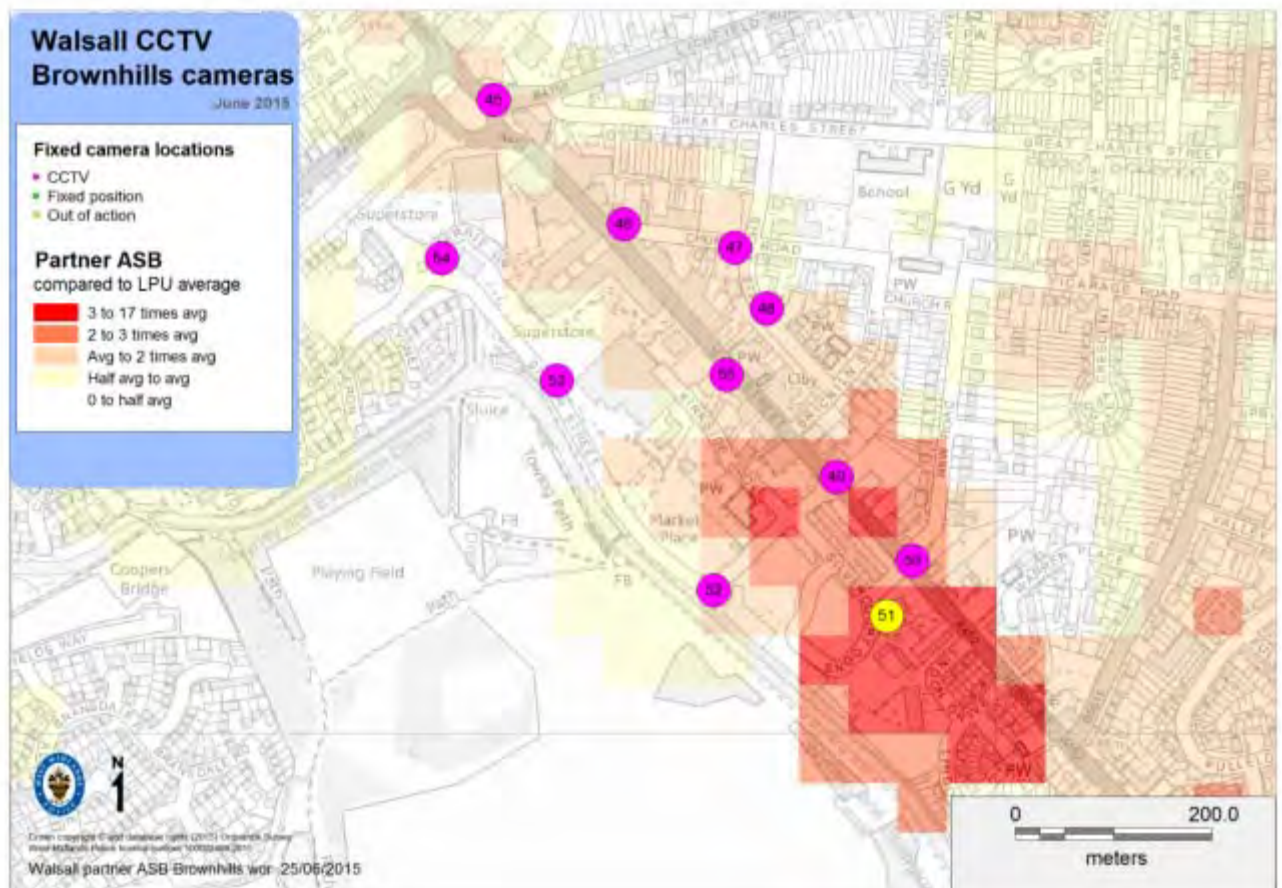
Brownhills Camera Cluster Violence with injury



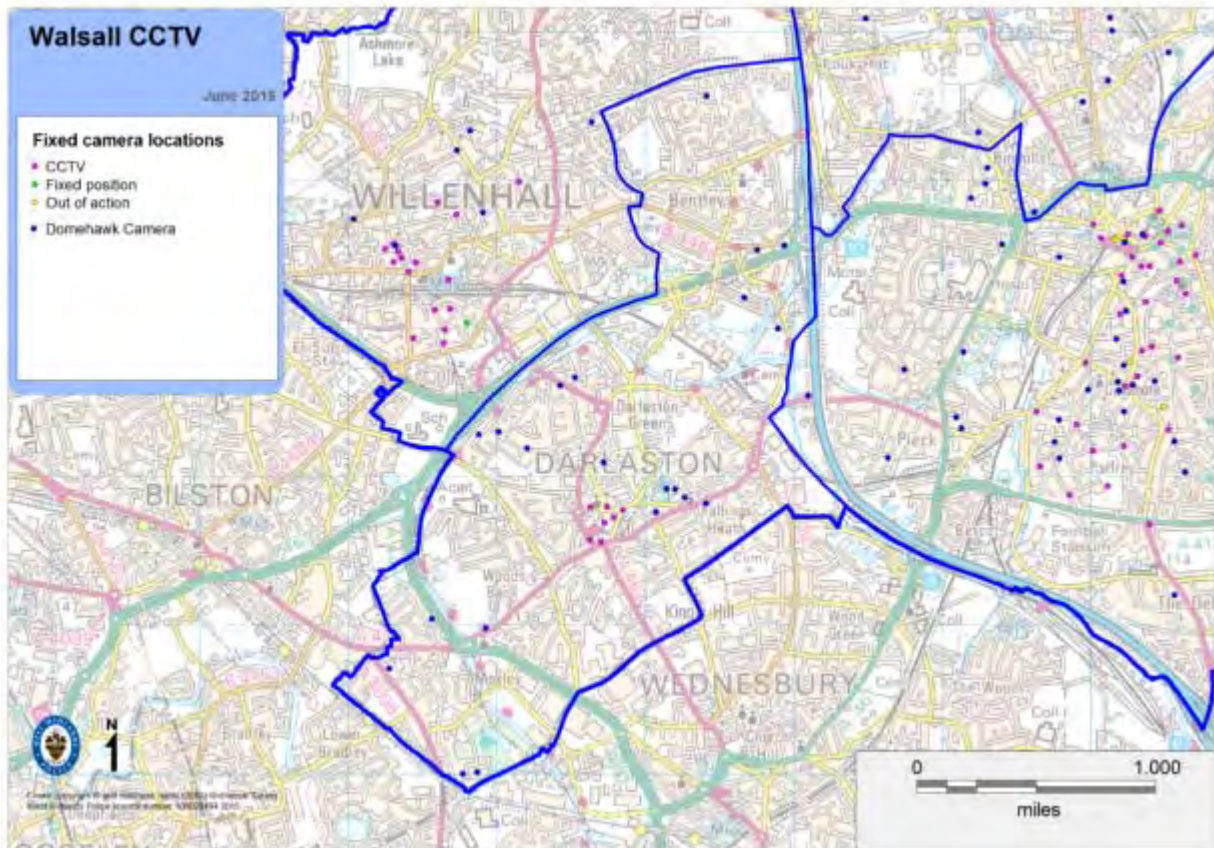
Committed Crime



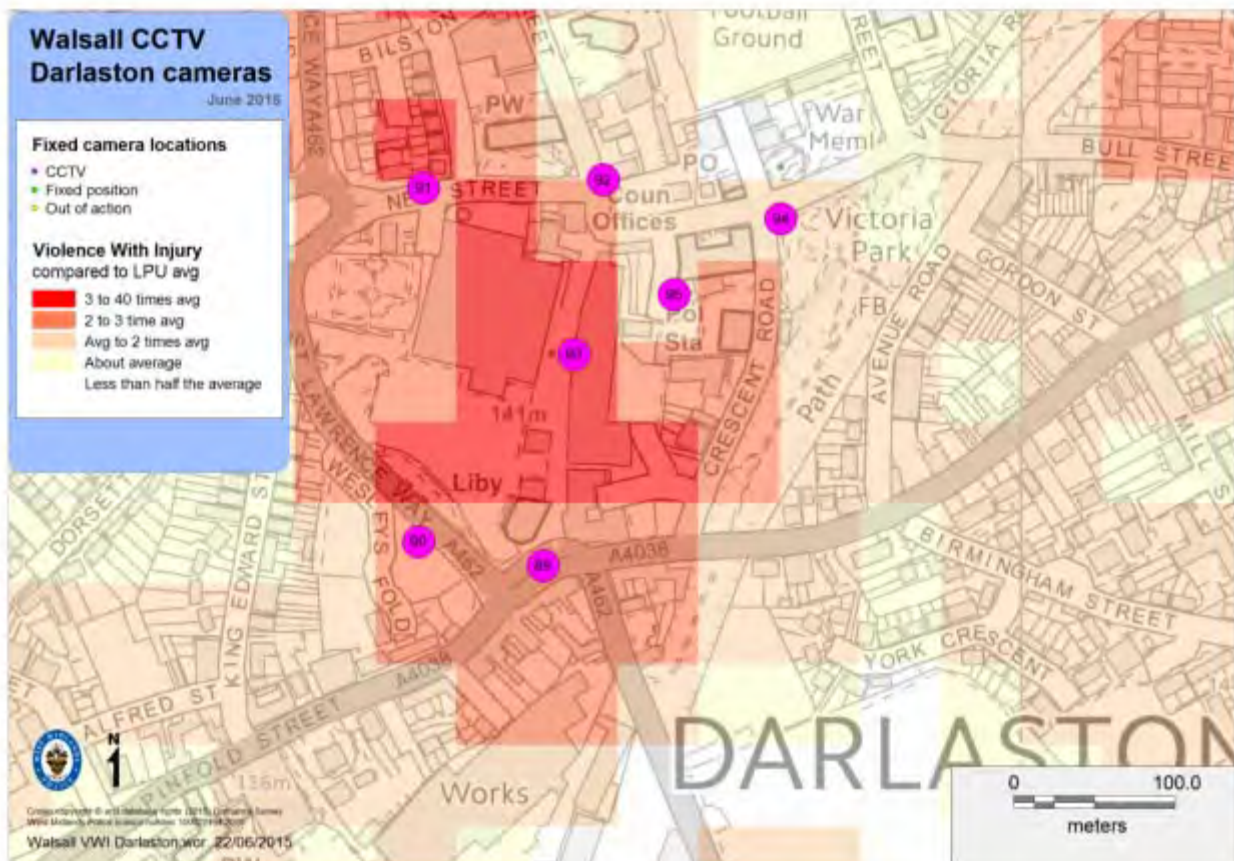
ASB



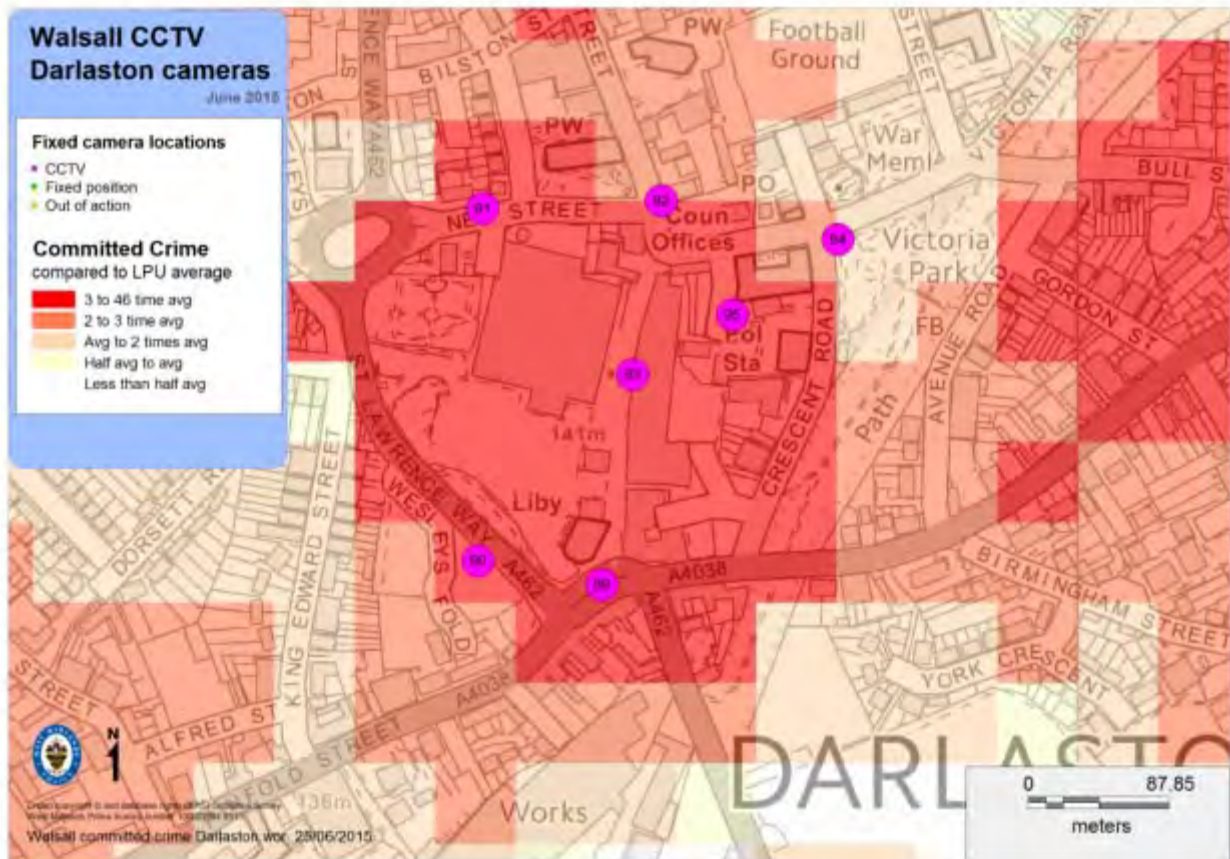
Darlaston Area Partnership – Fixed and Domehawk camera locations



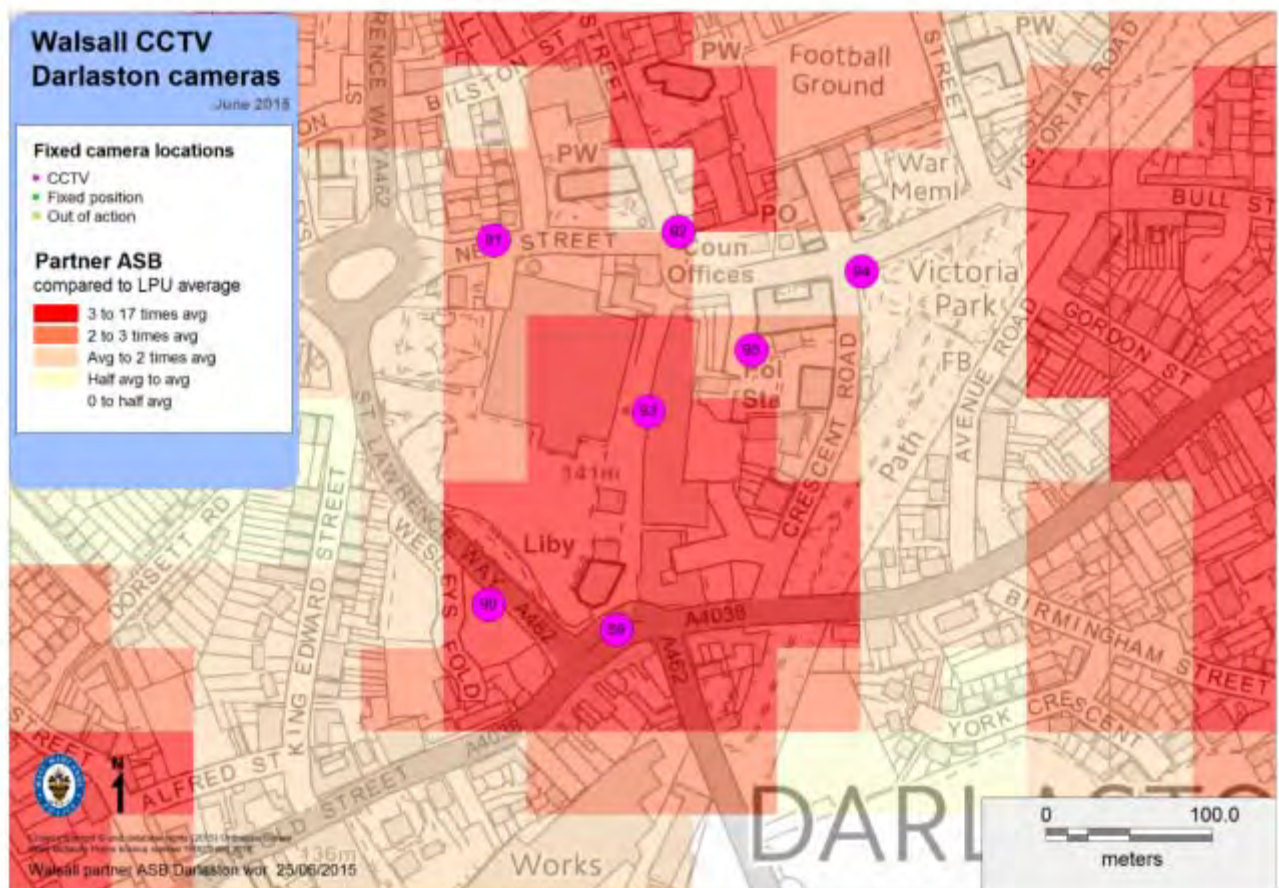
Darlaston Camera Cluster Area Violence with injury



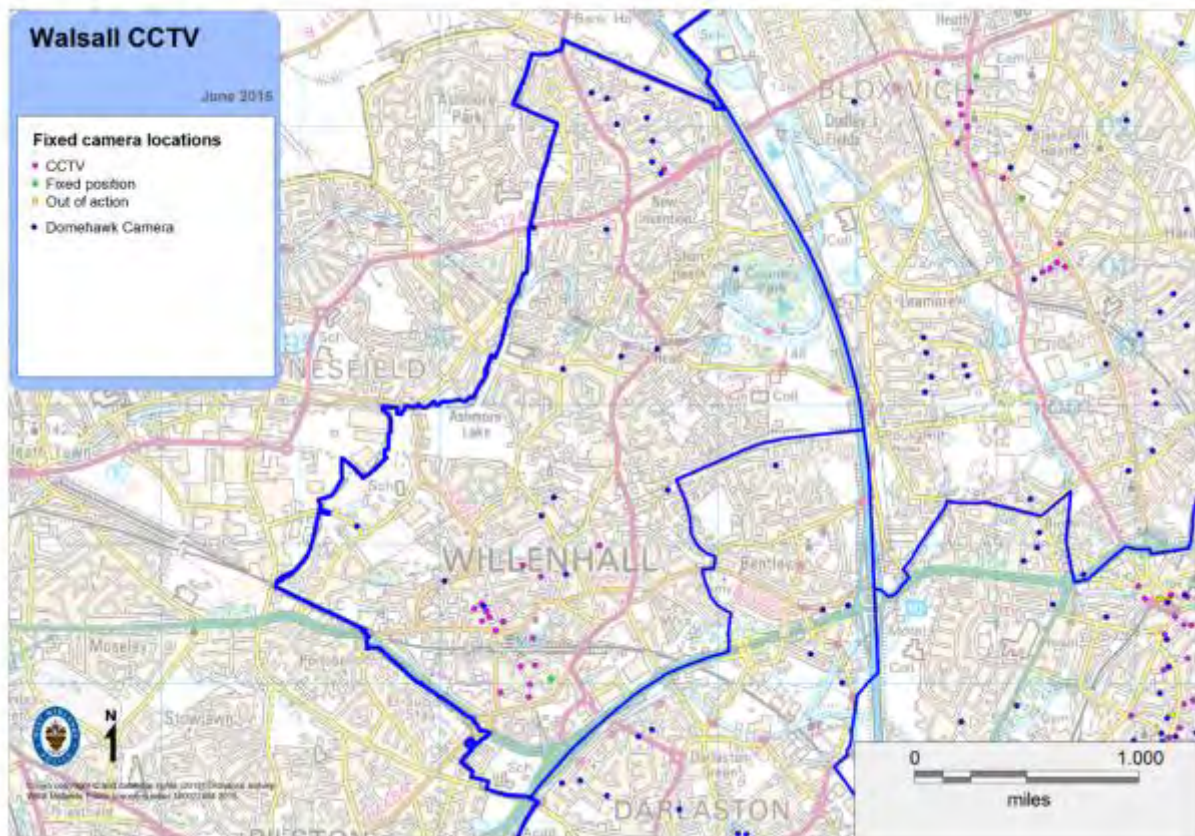
Committed crime



ASB

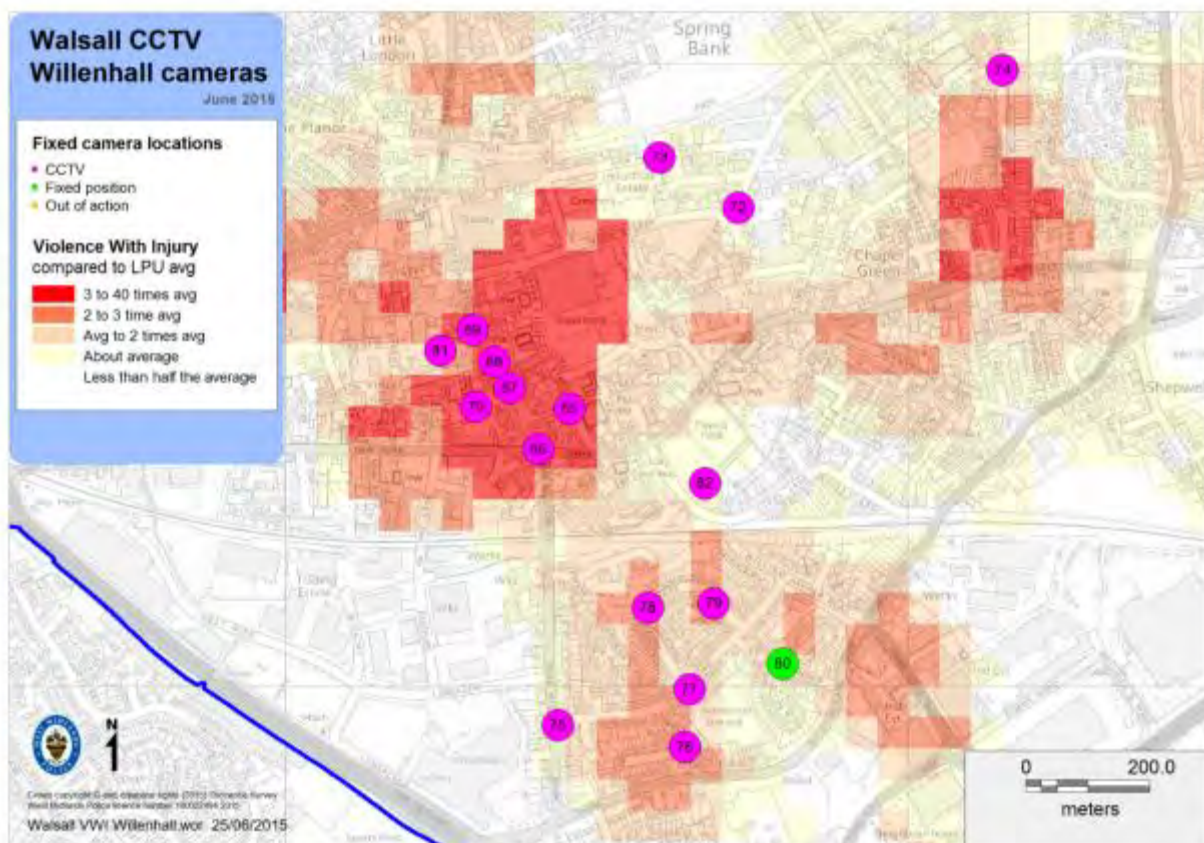


Willenhall Area Partnership – Fixed and Domehawk camera locations

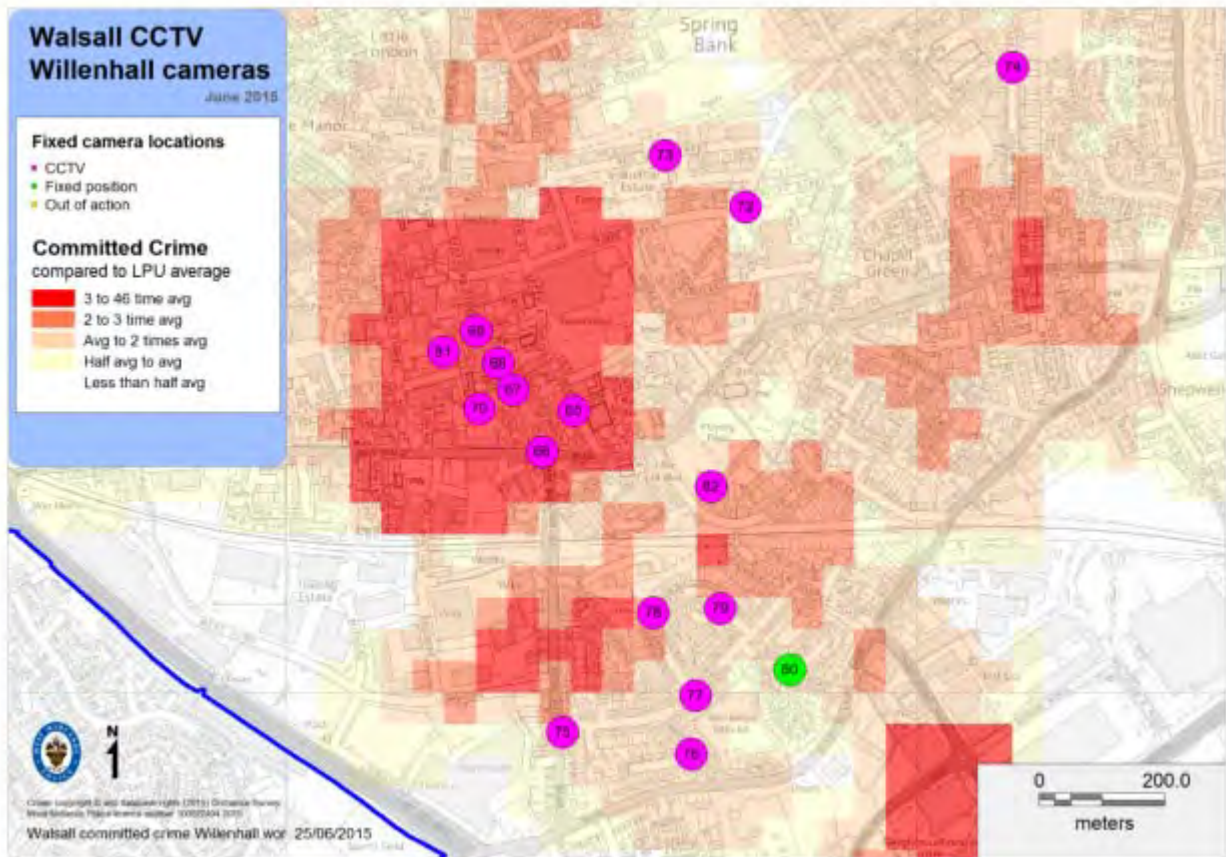


Willenhall

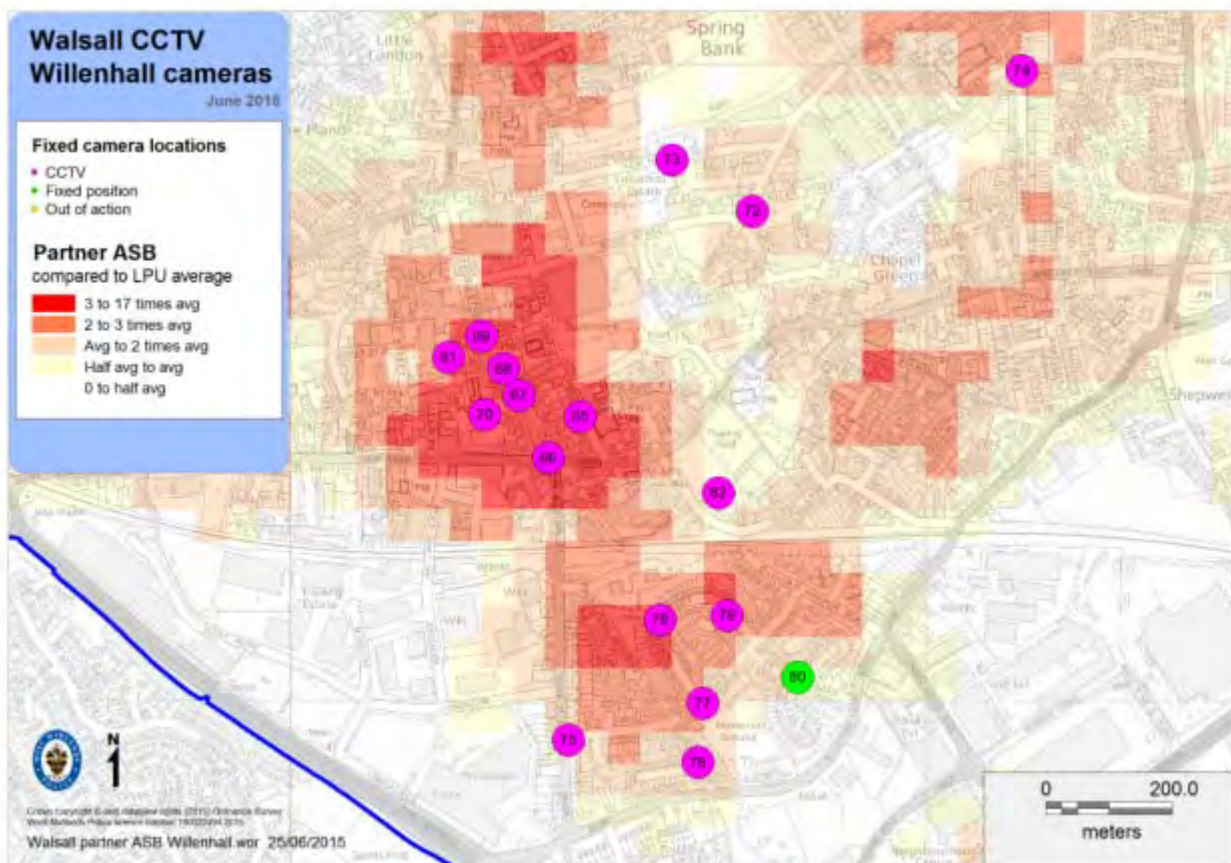
Violence with injury



Committed Crime

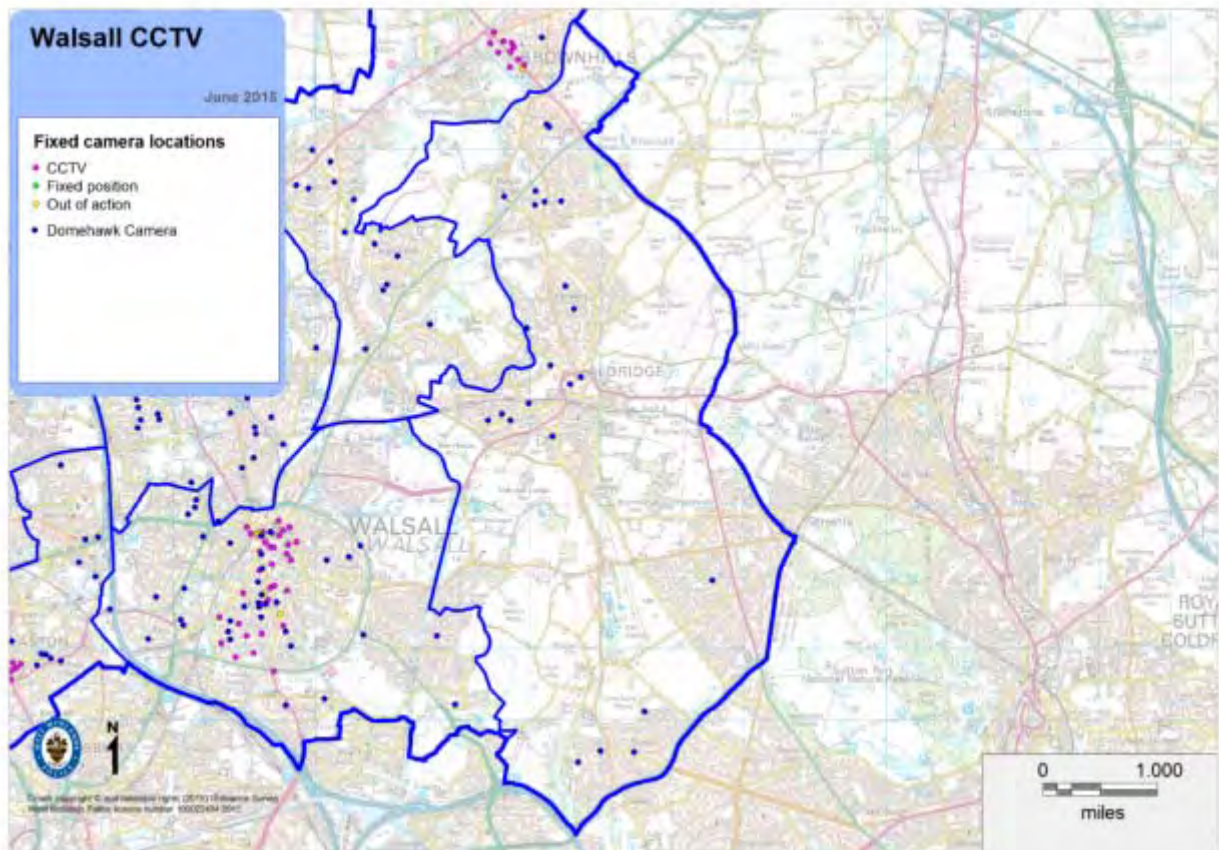


ASB



Streetly/Pheasey/Aldridge and Walsall Wood Area Partnership –Domehawk camera locations

There are no fixed cameras located within this Area Partnership, only Domehawks.



Appendix 1a: List of fixed cameras, by camera cluster, camera number/street location, number of incidents, last incident date; including notes highlighting where cameras are not functioning.

List of fixed position camera locations in order of incidence by overall location descriptor (Cluster) June 2013 to June 2015				
	Camera ID/location	number of incidents	Notes	Last download
Walsall TC/ Caldmore / Palfrey Cluster	Camera 007 The Bridge	2626		10/06/2015
	Camera 005 Bridge Street	2008		10/06/2015
	Camera 006 Darwell Street	1663		11/06/2015
	Camera 009 Bradford Place	1497		10/06/2015
	Camera 004 Bus Station	830		10/06/2015
	Camera 014 Ablewell Street/Upper Rushall St	709		06/06/2015
	Camera 016 Lichfield Street	706		06/06/2015
	Camera 001 Town End	603		10/06/2015
	Camera 012 Upper Market	435		10/06/2015
	Camera 008 Lower Hall Lane	335		10/06/2015
	Camera 013 Goodall Street	303		05/06/2014
	Camera 017 Hatherton Road	258		09/06/2015
	Camera 011 Lower Market	248		02/01/2014
	Camera 010 Dudley Street	164		06/06/2015
	Camera 018 Art Gallery (Gallery Square)	164		05/06/2015
	Camera 015 Intown Row	135		12/05/2015
	Camera 099 Vicarage Place	133		04/06/2015
	Camera 100 Wednesbury Road	110		09/06/2015
	Camera 101 The Green Caldmore	104		03/06/2015
	Camera 108 St Matthews Church	74		10/05/2015
	Camera 106 Bath Street	63		04/06/2015
	Camera 103 Caldmore Road	59		04/06/2015
	Camera 105 Mount Street	57		04/06/2015
	Camera 118 Bescot Crescent	38		04/06/2015
	Camera 107 Sandwell Street	31		12/02/2015
	Camera 117 Milton Street	27		04/06/2015
	Camera 114 Palfrey Park	25		09/06/2015
	Camera 102 Wood House Flats	23	in situ not working (Last incident recorded, Jan 2014)	11/02/2014
	Camera 110 West Bromwich St/Cambridge St	23		16/03/2015
	Camera 111 Fulbrook (Broadway/West Bromwich Rd)	19		02/06/2015
	Camera 113 Dale Street/Palfrey Park	14		23/06/2014
	Camera 115 Lord Street	11		31/03/2015
	Camera 112 Dale Street/Alexandra Road	8		17/05/2014
	Camera 116 New Mill Street	4		26/01/2013
	Camera 104 White Street/Car Park	3	Not in situ went for spares (Last incident recorded Oct 2012)	01/10/2012
	Camera 002 Park Street (Boots)	2	in situ, not working (Last incident recorded Jul 2014)	01/07/2014
	Camera 003 Park St (M&S)	1	in situ, not working (Last incident recorded Jul 2014)	01/07/2014
		13513	89%	

Please note that Camera #41 and #42, both Butlers Passage; are not on the above list because no incidents have been recorded within the 3 year period. They are however plotted on the maps as they are in position.

	Camer ID/location	number of incidents	Notes	Last download
Willenhall Cluster	Camera 066 New Road	137		08/06/2015
	Camera 068 Upper Market	80		08/06/2015
	Camera 069 Stafford Street	74		23/05/2015
	Camera 067 Lower Market	72		08/06/2015
	Camera 065 John Street (Police Station)	71		08/06/2015
	Camera 070 Market Car Park	34		08/06/2015
	Camera 082 Walsall St (Wakes CP)	24		08/06/2015
	Camera 075 Rose Hill	18		03/10/2014
	Camera 074 Gough St	15		31/03/2015
	Camera 081 W'hampton St/Market Place (Health Cent	12		26/11/2014
	Camera 078 Parkes St	9		11/06/2014
	Camera 077 Tyler Rd	8		11/06/2014
	Camera 076 Hartill St	7		11/06/2014
	Camera 079 Tyler Gdns	7		11/06/2014
	Camera 073 Newhall St	6		06/05/2015
	Camera 080 St Giles Rd	5	Only works in a fixed position, beyond economical repair	11/06/2014
	Camera 072 Lwr Lichfield St	2		30/08/2014
		581	4%	
Brownhills Cluster	Camera 055 High St/Pier St	72		08/06/2015
	Camera 045 High Street (Minor Island)	66		18/05/2015
	Camera 046 Church Road/High St	51		19/05/2015
	Camera 053 Silver Street (Tesco)	48		20/02/2015
	Camera 049 High Street/Silver Street	36		18/05/2015
	Camera 048 Short Street	32		10/06/2015
	Camera 047 Church Road/Short Street	31		08/02/2015
	Camera 050 High Street/New Road	29		02/05/2015
	Camera 054 Ferrie Grove/Silver St	23		10/06/2014
	Camera 052 Silver St	20		02/05/2015
			Not in situ, not reinstated following WHG refurb of building (last incident recorded June 2012)	12/06/2012
	Camera 051 Silver St	1		
		409	2.7%	

Please note that Camera #71 Doctors Piece, Willenhall doesn't appear on the above list because it hasn't been in place due to two Road Traffic Accidents (RTA) and there are no incidents recorded. The camera pole remains in situ but location has not been mapped.

	Camer ID/location	number of incidents	Notes	Last download
Bloxwich / Leamore Cluster	Camera 141 High St/Elmore Green Rd	98		09/06/2015
	Camera 145 High Street	71		08/06/2015
	Camera 143 Market Place	64		10/05/2015
	Camera 144 Samuel Street	38		08/06/2015
	Camera 140 Station Street (Police Station)	30		23/05/2015
	Camera 142 Elmore Row	20		06/01/2015
	Camera 147 Sand Bank	20		22/09/2014
	Camera 139 Reeves Street	19		23/05/2015
	Camera 136 Harden Lane	13		23/05/2015
			Only works in a fixed position, beyond economical repair	02/09/2014
	Camera 146 Cemetery Way	12		
	Camera 138 The Pinfold	9		23/05/2015
			Only works in a fixed position, beyond economical repair	09/10/2014
	Camera 137 Bloxwich Rd (Leisure Cen)	7		
	Camera 130 Cornwall Close/Providence Cl	4		14/01/2015
	Camera 133 Cromwell House Providence Lane	2		11/09/2014
	Camera 132 Providence House	1		12/03/2014
		408	2.7%	
Darlaston Cluster	Camera 089 Pinfold Street (Library)	53		14/02/2015
	Camera 093 King Street (Precinct)	48		02/04/2015
	Camera 090 St Lawrence Way	43		02/04/2015
	Camera 092 Church Street	23		01/02/2015
	Camera 094 Victoria Rd (Town Hall)	23		09/11/2015
	Camera 091 New Street	16		01/02/2015
	Camera 095 Mallows Close	14		10/11/2014
		220	1.5%	
Grand Total (all incidents)		15131	100.0%	

Please note that camera #131 Dover House, Providence Lane, Bloxwich does not appear on the list as it is not working and hence no incidents are recorded; its location is however mapped.

Appendix 1b: List of streets where Domehawk Cameras have been deployed; December 2010 to early June 2015. Some streets may have had cameras deployed on more than one separate occasion during the period.

Alleyway Cairn St/Raleigh St	Field Close	Old Town Lane
Anchor Road	Field Road	Park Street
Astoria Close	Forest Lane	Peacock Road Shops
Bagnall Street	Forrester Street	Pelsall Lane
Balmoral Drive	Fredrick Street	Penkridge Close
Beacon Road	Freizland Lane	Pinfold Close
Beechey Close	Gladstone Street	Pinson Road
Bell alley Stafford Street Willenhall	Glebe Street	Pioli Place off Carl Street Walsall
Bell Street	Glyn Avenue	Pleck Road
Berryfields	Goscote Lane	Raleigh Street
Birmingham Road	Goscote Lodge Crescent	Reedly Road
Black Country New Road	Grange Street	Reedswood Lane
Blackwood Rd	Great Bridge Road	Rischale Way
Blakemore Road	Great Charles Street	Roebuck Road
Boundry Road	Green Lane	Rough Hay Road
Brace Street	Green Rock Lane	Rowlands Close
Brickyard Road	Hawbush Road	Rutland Street
Bridge Road	Hawkswood Drive	Salters Road
Broad Meadow	Hayley Street Short Heath	Sandland Road
Broadway North	Hepburn Close	Slaters Place
Brook Lane	High Road	Smithfield Road
Burns Road	High Street	Spout Lane
Burns Street	Highfields Road North	Spring Lane
Cairns Street	Hi's & Lows, Darwal Street	St Annes Road
Caldmore Green	Horseshoe Crescent	Station Road
Caledon Street	Yew Tree Road	Stephenson Avenue
Camden Street	Ivatt Close	Stephenson Square
Carless Street	Jessel Road	Talke Road
Cavendish Road	John Harper Street	Tenbury Close
Cedar Park Road	Keats Road	Treyamon Road
Cemetery Road	Latches Close	Valley Road
Chapel Street Blakenhall	Lichfield Road	Vicarage Place
Collingwood Drive	Linden Lane	Vicarage Road
Comwell Close	Lister Close	Walsall Road
Coronation Road	Lister Road	Walsingham Street
Corporation Street	Lowe Avenue	Walstead Road
Countess Street	Lucknow Road	Ward St Car Park
Cresswell Crescent	Mallory Crescent	Watery Lane
Croxdene Avenue	Marklew Close	Waverly Avenue
Darlaston Road	Merton Way	Webster Road
Dartmouth Ave	Middlemore Lane	West Bromwich Road
Davis Road	Midland Road	Westbrook Avenue
Dorchester Road	Mill Lane	Whitmore Street
Dumblederry Lane	Milton Street	Whitton Street
Edison Road	Moxley Road	Willows Rd
Empress Way	Myatt Avenue	Wolverhampton Road
Essex Street	New Invention Square	Wolverhampton Road West
Fairlawns Close	Newport Street	Wolverhampton Street
Farm Street	Oaklands Way	Woodwards Road
		Wrexham Ave

Appendix 2 More detailed Individual Camera Cluster Analysis

Walsall Town centre

	Camera 007 The Bridge	Camera 005 Bridge Street	Camera 006 Darwell Street	Camera 009 Bradford Place	Camera 004 Bus Station	Camera 014 Ablewell Street	Camera 016 Lichfield Street	Camera 001 Town End	Camera 012 Upper Market	Camera 008 Lower Hall Lane	Camera 013 Goodall Street	Camera 017 Hatherton Road	Camera 011 Lower Market	Camera 018 Art Gallery	Camera 010 Dudley Street	Camera 015 Intown Row
Suspicion	538 20%	208 10%	235 14%	221 15%	165 20%	80 11%	86 12%	168 28%	109 25%	116 35%	52 17%	36 14%	79 32%	29 18%	20 12%	26 19%
Public Order	198 8%	522 26%	346 21%	287 19%	103 12%	187 26%	204 29%	63 10%	28 6%	18 5%	35 12%	48 19%	12 5%	12 7%	13 8%	18 13%
Anti Social Behaviour	327 12%	348 17%	389 23%	210 14%	187 23%	79 11%	122 17%	77 13%	55 13%	44 13%	33 11%	40 16%	35 14%	13 8%	13 8%	10 7%
Cash In Transit	700 27%	184 9%	74 4%	147 10%	9 1%		10 1%	5 1%	5 1%	3 1%	2 1%		5 2%	1 1%	2 1%	
Theft	275 10%	58 3%	77 5%	117 8%	107 13%	31 4%	28 4%	111 18%	55 13%	44 13%	26 9%	24 9%	20 8%	36 22%	35 21%	13 10%
Intelligence	133 5%	150 7%	136 8%	111 7%	60 7%	79 11%	73 10%	54 9%	31 7%	29 9%	34 11%	27 10%	19 8%	28 17%	14 9%	15 11%
Assault	89 3%	154 8%	105 6%	99 7%	40 5%	65 9%	54 8%	27 4%	19 4%	9 3%	23 8%	22 9%	12 5%	4 2%	4 2%	8 6%
Missing Person	109 4%	50 2%	60 4%	66 4%	43 5%	30 4%	25 4%	45 7%	33 8%	20 6%	19 6%	16 6%	24 10%	18 11%	14 9%	14 10%
Medical	62 2%	91 5%	75 5%	72 5%	29 3%	39 6%	32 5%	10 2%	20 5%	10 3%	6 2%	7 3%	6 2%	2 1%	4 2%	2 1%
Unknown Offence	68 3%	98 5%	50 3%	61 4%	20 2%	37 5%	18 3%	9 1%	18 4%	10 3%	13 4%	5 2%	9 4%	5 3%	11 7%	3 2%
Traffic	8 0%	37 2%	5 0%	14 1%	13 2%	29 4%	12 2%	6 1%	13 3%	3 1%	20 7%	9 3%	1 0%	2 1%	11 7%	7 5%
Robbery	18 1%	14 1%	11 1%	22 1%	8 1%	18 3%	11 2%	5 1%	12 3%	8 2%	8 3%	9 3%	3 1%	4 2%	7 4%	7 5%
Offensive Weapons	26 1%	17 1%	14 1%	20 1%	15 2%	9 1%	4 1%	6 1%	9 2%	4 1%	5 2%	5 2%	5 2%	3 2%	5 3%	
Drugs	20 1%	33 2%	41 2%	14 1%	7 1%	7 1%	12 2%	4 1%	6 1%	4 1%	4 1%	6 2%	5 2%	3 2%		2 1%
Criminal Damage	13 0%	19 1%	19 1%	18 1%	7 1%	6 1%	7 1%	4 1%	7 2%	3 1%	6 2%	1 0%	4 2%	1 1%	5 3%	2 1%
Burglary	11 0%	3 0%	6 0%	4 0%	6 1%	5 1%	2 0%	2 0%	6 1%	4 1%	3 1%	1 0%	1 0%	1 1%	3 2%	1 1%
Sexual Offence	6 0%	7 0%	6 0%	4 0%	5 1%	1 0%	1 0%	1 0%	2 0%	1 0%	1 0%	1 0%	3 1%	1 1%	0%	1 1%
Fire	13 0%	5 0%	5 0%	2 0%		3 0%	1 0%	3 0%	2 0%	1 0%	10 3%		1 0%	1 1%	1 1%	1 1%
Wanted	7 0%	3 0%	5 0%	3 0%	5 1%	1 0%	2 0%	2 0%	1 0%	1 0%		1 0%			1 1%	1 1%
Fraud	3 0%	3 0%	3 0%	4 0%		1 0%	0%	0%	2 0%	1 0%	1 0%		1 0%		1 1%	0%
Vehicle Crime	1 0%	2 0%	0%	1 0%		2 0%	1 0%	0%	1 0%	1 0%	2 1%	0%	1 0%			4 3%
Major Incident	1 0%				1 0%			1 0%	1 0%			0%	1 0%			
Fly Tipping / Fly Posting / Littering	0%	2 0%	1 0%	0%	0%	0%	1 0%	0%	0%	1 0%	0%	0%	1 0%	0%	0%	0%
Grand Total	2626 100%	2008 100%	1663 100%	1497 100%	830 100%	709 100%	706 100%	603 100%	435 100%	335 100%	303 100%	258 100%	248 100%	164 100%	164 100%	135 100%
% of Grand Total within cluster	19.4%	14.9%	12.3%	11.1%	6.1%	5.2%	5.2%	4.5%	3.2%	2.5%	2.2%	1.9%	1.8%	1.2%	1.2%	1.0%

Caldmore

	Camera 099 Vicarage Place		Camera 100 Wednesbury Road		Camera 101 The Green		Camera 108 St Matthews		Camera 106 Bath Street		Camera 103 Caldmore Road		Camera 105 Mount Street		Camera 107 Sandwell Street		Camera 102 Wood House		Camera 104 White Street/Car Park	
Suspicion	22	17%	16	15%	13	13%	15	20%	3	5%	8	14%	8	14%	3	10%	3	13%		
Public Order	15	11%	4	4%	8	8%	3	4%	3	5%	4	7%	6	11%	2	6%	2	9%		
Anti Social Behaviour	5	4%	4	4%	22	21%	14	19%		0%	5	8%	3	5%	2	6%		0%		
Cash In Transit																		0%		
Theft	26	20%	11	10%	4	4%	6	8%	13	21%	6	10%	6	11%	5	16%	2	9%		
Intelligence	7	5%	10	9%	9	9%	11	15%	5	8%	3	5%	5	9%	3	10%	2	9%		
Assault	10	8%	10	9%	11	11%	4	5%	4	6%	4	7%	4	7%	1	3%	3	13%		
Missing Person	5	4%	4	4%	4	4%	2	3%	2	3%	4	7%	4	7%	3	10%	3	13%	2	66.7%
Medical	1	1%	4	4%	8	8%	3	4%	3	5%	4	7%	2	4%	1	3%		0%		
Unknown Offence	8	6%	10	9%	3	3%	3	4%	2	3%	3	5%	1	2%	1	3%		0%		
Traffic	13	10%	13	12%	8	8%	1	1%	5	8%	4	7%	5	9%	1	3%	2	9%		
Robbery	7	5%	13	12%	8	8%	6	8%	13	21%	8	14%	10	18%	5	16%	3	13%	1	33.3%
Offensive Weapons	6	5%	4	4%	1	1%	1	1%	6	10%	3	5%	1	2%	2	6%	1	4%		
Drugs					1	1%	2	3%				0%						0%		
Criminal Damage	3	2%					2	3%				0%			1	3%		0%		
Burglary	1	1%	2	2%			1	1%				0%						0%		
Sexual Offence	1	1%	3	3%	2	2%			1	2%	2	3%	1	2%	1	3%	1	4%		
Fire	1	1%		0%		0%			1	2%		0%						0%		
Wanted	1	1%		0%		0%						0%						0%		
Fraud	1	1%	1	1%		0%						0%						0%		
Vehicle Crime												0%						0%		
Major Incident		0%	1	1%	1	1%						0%					1	4%		
Fly Tipping / Fly Posting / Littering		0%		0%	1	1%		0%	2	3%	1	2%	1	2%				0%		
Grand Total	133	100%	110	100%	104	100%	74	100%	63	100%	59	100%	57	100%	31	100%	23	100%	3	100.0%
% of Grand Total within cluster	1.0%		0.8%		0.8%		0.5%		0.5%		0.4%		0.4%		0.2%		0.2%		0.0%	

Palfrey

	Camera 118 Bescot Crescent		Camera 117 Milton Street		Camera 114 Palfrey Park		Camera 110 West Bromwich St		Camera 111 Fulbrook		Camera 113 Dale Street/Park		Camera 115 Lord Street		Camera 112 Dale Street		Camera 116 New Mill Street		Camera 002 Park Street		Camera 003 Park St (M&S)		Grand Total
Suspicion	4	11%	6	22%	9	36%	5	22%	3	16%	2	14%	4	36%	1	13%					0%		2293
Public Order		0%		0%	2	8%	1	4%	2	11%	1	7%									0%		2147
Anti Social Behaviour	2	5%	2	7%	5	20%	1	4%											1	50%		0%	2048
Cash In Transit								0%														0%	1147
Theft	1	3%	2	7%			2	9%	2	11%			1	9%	1	13%						0%	1145
Intelligence	5	13%	2	7%	1	4%	1	4%	1	5%	1	7%	1	9%	1	13%						0%	1061
Assault	2	5%	4	15%	2	8%	1	4%			2	14%			2	25%	1	25%				0%	799
Missing Person	2	5%	2	7%	2	8%	2	9%	2	11%	2	14%	1	9%	2	25%	2	50%	1	50%	1	100%	638
Medical	1	3%	1	4%			3	13%	1	5%					1	13%						0%	500
Unknown Offence	6	16%	1	4%			1	4%			2	14%	2	18%								0%	478
Traffic	5	13%	1	4%			4	17%	5	26%												0%	257
Robbery	6	16%	1	4%				0%	1	5%												0%	247
Offensive Weapons	1	3%	3	11%	2	8%	1	4%	2	11%	3	21%	1	9%			1	25%				0%	186
Drugs					1	4%		0%			1	7%										0%	173
Criminal Damage			1	4%				0%														0%	129
Burglary	1	3%						0%					1	9%								0%	65
Sexual Offence								0%														0%	53
Fire					1	4%		0%														0%	52
Wanted								0%														0%	34
Fraud	1	3%						0%														0%	23
Vehicle Crime								0%														0%	16
Major Incident	1	3%	1	4%			1	4%														0%	11
Fly Tipping / Fly Posting / Littering								0%														0%	11
Grand Total	38	100%	27	100%	25	100%	23	100%	19	100%	14	100%	11	100%	8	100%	4	100%	2	100%	1	100%	13513
% of Grand Total within cluster	0.3%		0.2%		0.2%		0.2%		0.1%		0.1%		0.1%		0.1%		0.0%		0.0%		0.0%		100.0%

Bloxwich Camera Cluster

	Camera 141 High St/Elmore Green Rd		Camera 145 High Street		Camera 143 Market Place		Camera 144 Samuel Street		Camera 140 Police Station (H2)		Camera 147 Sand Bank		Camera 142 Elmore Row		Camera 139 Reeves Street		Camera 136 Harden Lane		Camera 146 Cemetery Way		Camera 138 The Pinfold		Camera 137 Bloxwich Rd (Leisure Cen)		Camera 130 Providence Lane		Camera 133 Comwell House		Camera 132 Providence House				
Row Labels																																Grand Total	
Cash In Transit	30	31%	3	4%	20	31%	2	5%									1	8%													56	14%	
Public Order	8	8%	12	17%	6	9%	5	13%	6	20%	4	20%	3	15%	2	11%			1	8%	2	22%	3	43%							52	13%	
Theft	9	9%	8	11%	8	13%	7	18%	1	3%	2	10%	5	25%		0%	1	8%	1	8%											42	10%	
Traffic	3	3%	6	8%	2	3%	2	5%	5	17%	2	10%	2	10%	7	37%	2	15%			4	44%	2	29%	1	25%					38	9%	
Anti Social Behaviour	8	8%	6	8%	6	9%	6	16%	1	3%	3	15%							2	17%	1	11%									33	8%	
Suspicion	6	6%	6	8%	7	11%	3	8%	1	3%			5	25%			1	8%	1	8%					1	25%					31	8%	
Missing Person	4	4%	4	6%	4	6%	4	11%	3	10%	2	10%	2	10%			1	8%	3	25%											27	7%	
Assault	6	6%	5	7%	2	3%	1	3%	3	10%	2	10%	1	5%	3	16%			2	17%											25	6%	
Burglary	7	7%	5	7%	3	5%	2	5%	1	3%	2	10%	1	5%					2	17%											23	6%	
Intelligence	5	5%	3	4%					3	10%					3	16%	1	8%			2	22%	1	14%							18	4%	
Unknown Offence	2	2%	2	3%	2	3%	2	5%	3	10%					1	5%	2	15%							1	25%					15	4%	
Medical	4	4%	4	6%			1	3%	1	3%					2	11%	1	8%										1	50%	1	100%	15	4%
Offensive Weapons	3	3%	2	3%			2	5%	1	3%	1	5%			1	5%															10	2%	
Vehicle Crime	1	1%	1	1%	1	2%	1	3%			1	5%	1	5%																	6	1%	
Fire	1	1%	2	3%							1	5%					2	15%													6	1%	
Criminal Damage			1	1%	1	2%											1	8%					1	14%			1	50%			5	1%	
Drugs	1	1%	1	1%	1	2%																									3	1%	
Fly Tipping / Fly Posting / Littering					1	2%																									2	0%	
Major Incident									1	3%																1	25%				1	0%	
Grand Total	98	100%	71	100%	64	100%	38	100%	30	100%	20	100%	20	100%	19	100%	13	100%	12	100%	9	100%	7	100%	4	100%	2	100%	1	100%	408	100%	
% of Grand Total within cluster	24%		17%		16%		9%		7%		5%		5%		5%		3%		3%		2%		2%		1%		0%		0%		100%		

Brownhills Camera Cluster

Row Labels	Camera 055 High St/Pier St		Camera 045 Lichfield Street		Camera 046 Church Road		Camera 053 Tesco		Camera 049 High Street		Camera 048 Short Street		Camera 047 Church St		Camera 050 High Street		Camera 054 Silver St		Camera 052 Silver St		Camera 051 Silver St		Grand Total	
Suspicion	12	16.7%	15	22.7%	10	19.6%	2	4.2%	7	19.4%	6	18.8%	8	25.8%	4	13.8%	3	13.0%	2	10.0%			69	17%
Missing Person	7	9.7%	7	10.6%	8	15.7%	6	12.5%	7	19.4%	5	15.6%	5	16.1%	6	20.7%	4	17.4%	4	20.0%			59	14%
Public Order	6	8.3%	9	13.6%	6	11.8%	5	10.4%	2	5.6%	3	9.4%	5	16.1%	3	10.3%	3	13.0%	1	5.0%			43	11%
Anti Social Behaviour	8	11.1%	3	4.5%	6	11.8%	5	10.4%	5	13.9%	3	9.4%	1	3.2%	2	6.9%	2	8.7%	1	5.0%			36	9%
Robbery	6	8.3%	4	6.1%	4	7.8%	6	12.5%	1	2.8%	3	9.4%	2	6.5%	2	6.9%	3	13.0%	3	15.0%	1	100.0%	35	9%
Traffic	3	4.2%	11	16.7%			3	6.3%	1	2.8%	2	6.3%	1	3.2%	3	10.3%	2	8.7%	1	5.0%			27	7%
Burglary	3	4.2%	3	4.5%	3	5.9%	3	6.3%	4	11.1%	1	3.1%	1	3.2%	4	13.8%	2	8.7%	2	10.0%			26	6%
Assault	2	2.8%	4	6.1%	4	7.8%	2	4.2%	2	5.6%	1	3.1%	1	3.2%	1	3.4%	2	8.7%	1	5.0%			20	5%
Cash In Transit	6	8.3%					11	22.9%				0.0%											17	4%
Sexual Offence	2	2.8%	1	1.5%	2	3.9%	2	4.2%	1	2.8%	1	3.1%	1	3.2%	1	3.4%	1	4.3%	2	10.0%			14	3%
Offensive Weapons	3	4.2%	2	3.0%	2	3.9%	1	2.1%			2	6.3%			2	6.9%	1	4.3%	1	5.0%			14	3%
Medical	4	5.6%	2	3.0%	1	2.0%	1	2.1%	1	2.8%	2	6.3%	2	6.5%									13	3%
Theft	2	2.8%	2	3.0%	2	3.9%	1	2.1%	1	2.8%		0.0%	1	3.2%					1	5.0%			10	2%
Unknown Offence	4	5.6%	1	1.5%					2	5.6%	1	3.1%											8	2%
Intelligence	2	2.8%	1	1.5%	1	2.0%					1	3.1%	1	3.2%									6	1%
Criminal Damage	1	1.4%			1	2.0%			1	2.8%			1	3.2%	1	3.4%							5	1%
Fire					1	2.0%			1	2.8%			1	3.2%					1	5.0%			4	1%
Vehicle Crime	1	1.4%									1	3.1%											2	0%
Major Incident			1	1.5%																			1	0%
Grand Total	72	100.0%	66	100.0%	51	100.0%	48	100.0%	36	100.0%	32	100.0%	31	100.0%	29	100.0%	23	100.0%	20	100.0%	1	100.0%	409	100%
% of Grand Total within cluster	18%		16%		12%		12%		9%		8%		8%		7%		6%		5%		0%		100%	

Darlaston Camera Cluster

	Camera 089 Library		Camera 093 Precinct		Camera 090 St Lawrence Way		Camera 094 Victoria Rd (Town Hall)		Camera 092 New Street		Camera 091 New Street		Camera 095 Mallows Close		Grand Total	
Suspicion	8	15.1%	11	22.9%	4	9.3%	4	17.4%	5	21.7%	3	18.8%	3	21.4%	38	17%
Anti Social Behaviour	10	18.9%	10	20.8%	11	25.6%			3	13.0%	2	12.5%			36	16%
Missing Person	4	7.5%	4	8.3%	4	9.3%	4	17.4%	4	17.4%	4	25.0%	4	28.6%	28	13%
Assault	5	9.4%	3	6.3%	5	11.6%	3	13.0%	3	13.0%	2	12.5%	2	14.3%	23	10%
Public Order	4	7.5%	4	8.3%	5	11.6%	2	8.7%	2	8.7%	2	12.5%	2	14.3%	21	10%
Theft	3	5.7%	2	4.2%	4	9.3%	2	8.7%	3	13.0%	2	12.5%	1	7.1%	17	8%
Medical	5	9.4%	1	2.1%	2	4.7%	2	8.7%	1	4.3%	1	6.3%	2	14.3%	14	6%
Cash In Transit	4	7.5%	9	18.8%											13	6%
Robbery	2	3.8%	2	4.2%	2	4.7%	2	8.7%	2	8.7%					10	5%
Intelligence	2	3.8%					3	13.0%							5	2%
Unknown Offence	2	3.8%	1	2.1%	1	2.3%	1	4.3%							5	2%
Traffic					3	7.0%									3	1%
Fire	2	3.8%			1	2.3%									3	1%
Burglary	1	1.9%	1	2.1%											2	1%
Offensive Weapons	1	1.9%			1	2.3%									2	1%
Grand Total	53	100.0%	48	100.0%	43	100.0%	23	100.0%	23	100.0%	16		14		220	100%
% of Grand Total within cluster	24%		22%		20%		10%		10%		7%		6%		100%	

Willenhall Camera Cluster

	Camera 066 New Road		Camera 068 Upper Market		Camera 069 Stafford Street		Camera 067 Lower Market		Camera 065 John Street		Camera 070 Market Car Park		Camera 082 Walsall Rd (Wakes CP)		Camera 075 Rose Hill		Camera 074 Gough St		Camera 081 W'hampton Rd (o/s Health		Camera 078 Parkes St		Camera 077 Tyler Rd		Camera 076 Hartill St		Camera 079 Tyler Gdns		Camera 073 New Hall St		Camera 080 St Giles Rd		Camera 072 Lwr Lichfield St		Grand Total	
Suspicion	20	15%	17	21%	15	20%	18	25%	12	17%	14	41%	5	21%	4	22%	4	27%	4	33%	1	11%	1	13%	1	14%	1	14%	2	11%	1	20%			120	21%
Missing Person	9	7%	10	13%	10	14%	10	14%	10	14%	7	21%	3	13%	1	6%	1	7%	2	17%	1	11%	1	13%	1	14%	1	14%	1	6%			2	100%	70	12%
Cash In Transit	48	35%	11	14%	3	4%	5	7%	2	3%																								69	12%	
Public Order	8	6%	1	1%	7	9%	4	6%	10	14%	1	3%			2	11%					2	22%	2	25%	2	29%	2	29%			2	40%		43	7%	
Intelligence	11	8%	4	5%	2	3%	6	8%	7	10%	1	3%	1	4%	2	11%	1	7%												1	20%				36	6%
Anti Social Behaviour	8	6%	6	8%	5	7%	6	8%	2	3%			3	13%	1	6%	1	7%																32	6%	
Robbery	4	3%	3	4%	3	4%	3	4%	3	4%	2	6%	2	8%	3	17%	1	7%	1	8%	1	11%	1	13%	1	14%	1	14%	1	6%				30	5%	
Medical	6	4%	9	11%	3	4%	4	6%	4	6%							2	13%					1	13%					1	6%				30	5%	
Theft	3	2%	3	4%	4	5%	3	4%	3	4%	2	6%	1	4%	1	6%	1	7%	1	8%	1	11%	1	13%	1	14%	1	14%							26	4%
Burglary	2	1%	4	5%	8	11%	2	3%	2	3%	3	9%			1	6%			2	17%	1	11%												25	4%	
Criminal Damage	1	1%	3	4%	3	4%	3	4%	2	3%			1	4%	1	6%	2	13%	1	8%	1	11%	1	13%	1	14%	1	14%			1	20%		22	4%	
Assault	6	4%	2	3%	3	4%	2	3%	5	7%	1	3%					1	7%	1	8%														21	4%	
Unknown Offence	4	3%	4	5%	3	4%	1	1%	5	7%			1	4%																				18	3%	
Traffic	4	3%					1	1%		0%			4	17%	1	6%																		10	2%	
Fire			1	1%			1	1%	3	4%							1	7%										1	6%					7	1%	
Drugs	1	1%	1	1%	1	1%	1	1%			1	3%									1	11%												6	1%	
Sexual Offence	1	1%	1	1%	1	1%					1	3%																						4	1%	
Offensive Weapons	1	1%			1	1%							1	4%	1	6%																		4	1%	
Fly Tipping / Fly Posting / Littering							1	1%	1	1%	1	3%																						3	1%	
Wanted					2	3%	1	1%																										3	1%	
Vehicle Crime													2	8%																				2	0%	
Grand Total	137	100%	80	100%	74	100%	72	100%	71	100%	34	100%	24	100%	18	100%	15	100%	12	100%	9	100%	8	100%	7	100%	7	100%	6	33%	5	100%	2	100%	581	100%
% of Grand Total within cluster	24%		14%		13%		12%		12%		6%		4%		3%		3%		2%		2%		1%		1%		1%		1%		1%		0%	100%		