

IPV & Incursion Working Group Report – April 2023

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Rev 0 – 04/05/2023 Data Source: HART [WD3]

To date, the total number of incursions recorded since October 2017 is **13424**

	Directorate								
Kind of Event	Major Projects	Operations	Outstations & ROCs	NH Offices & Depots	Grand Total				
Incursion; Intentional - To seek benefit	809	1736	557	57	3159				
Incursion; Intentional – Because of breakdown	3879	337	139	2	4357				
Incursion; Intentional – To seek information	51	75	29	4	159				
Incursion; Intentional - Breach of Rolling Road Block (TOS)	4	22	865	8	899				
Incursion; Unintentional - Driver confused	770	530	260	39	1599				
Incursion; Unintentional - Follow in	127	151	16	2	296				
Incursion; Unintentional - Result of accident	251	151	68	5	475				
Incursions; Intentional - Blue Light Incursion	31	39	0	0	70				
IPV Strike	18	48	8	0	74				
Incursion to seek information or benefit	233	1085	174	18	1510				
Incursion unintentional - confused or follow in	181	429	210	6	826				
Grand Total	6354	4603	2326	141	13424				

		By Year (Jan – Dec)									
Kind of Event	Previous Years	2018	2019	2020	2021	2022	2023				
Number of All Incursions recorded	788	1874	2055 (+9.7%)	2313 (+12.6%)	3937 (+70.2%)	1806 (-54.1%)	652				



6 Historical Incursion records added

		Directorate													
Kind of Event	Ma	ajor Proje	or Projects		peratior	IS	Outst	Outstations & ROCs		NH Of	fices & D	epots	Grand Total		al
	Jan-23	Feb-23	Mar-23	Jan-23	Feb-23	Mar-23	Jan-23	Feb-23	Mar-23	Jan-23	Feb-23	Mar-23	Jan-23	Feb-23	Mar-23
Incursion; Intentional - To seek benefit						3									3
Incursion; Intentional – Because of breakdown			1												1
Incursion; Intentional – To seek information															
Incursion; Intentional - Breach of Rolling Road Block (TOS)															
Incursion; Unintentional - Driver confused						2									2
Incursion; Unintentional - Follow in															
Incursion; Unintentional - Result of accident															
Incursions; Intentional - Blue Light Incursion															
IPV Strike															
Grand Total		1			5									6	



112 Incursions were recorded for April 2023

			Directorate		
Kind of Event	Major Projects	Operations	Outstations & ROCs	NH Offices & Depots	Grand Total
Incursion; Intentional - To seek benefit	12	51	3	1	67
Incursion; Intentional – Because of breakdown	6	1	1		8
Incursion; Intentional – To seek information	3				3
Incursion; Intentional - Breach of Rolling Road Block (TOS)					
Incursion; Unintentional - Driver confused	7	8	2		17
Incursion; Unintentional - Follow in	1	2			3
Incursion; Unintentional - Result of accident	9		1		10
Incursions; Intentional - Blue Light Incursion		3			3
IPV Strike		1			1
Grand Total	38	66	7	1	112



Blue Light Incursions Report - Headline

70 Blue Light Incursions have been recorded since February 2022 with **3** being recorded in April 2023 (Edited Record)

Record ID	Date	Time	Directorate	Region	Programme	Site / Project	 Type of TTM		Location	Details of actual job being done	happened	Immediate Actions Taken
140861	06/04/202 3	16:48:00	Operation s	East - Operation s	East - Area Contracts		Not populated	Carriagew ay B	158/2	Roads Cross-over	has been spotted driving through a closed lane to avoid queuing in traffic.	Review with Senior Management Team and Chevron. Dialogue to continue with the emergency services to raise awareness.
140986	05/04/202 3	23:15:00	Operation s		- DBFO			Not populated		closure	on the M1B to M25 A shut down a unit marked police car had driven at high speed through the closure	asked the supervisor to DWB and report it as CDTM had the CCTV incursion camera and had there reg and make of car I also reported it to my line manager

Blue Light Incursions Report - Headline

70 Blue Light Incursions have been recorded since February 2022 with **3** being recorded in April 2023 (Edited Record)

Record ID	Date	Time	Directorate	Region	Programme		Type of Closure	Type of TTM	Location		Describe the facts of what happened	Immediate Actions Taken
141036	04/04/202	12:30:00	Operation s	South East - Operation s		DBFO - M25 (Area 5)		Not populated	Not populated	Road closure	Whilst the JCE foreman was walking back to the site compound from the Westbound gated entrance; he noticed a police car enter the closure (toward E/B) at high speeds. No vehicles are permitted to drive within the enclosure; especially non-site personnel. Even in the event of an emergency. JCE Foreman gathered operatives and sub-contractors, briefed them of the near miss and instructed them to (as reasonably practicable) walk on the central reservation (within the TM closure) until the nearest crossing point when travelling back and forth from compound to W/B (if a vehicle is not present) "	Not Populated

IPV Strike Report - Headline

74 IPV strikes have been recorded since October 2019 with **1** being recorded in April 2023 (Edited Record)

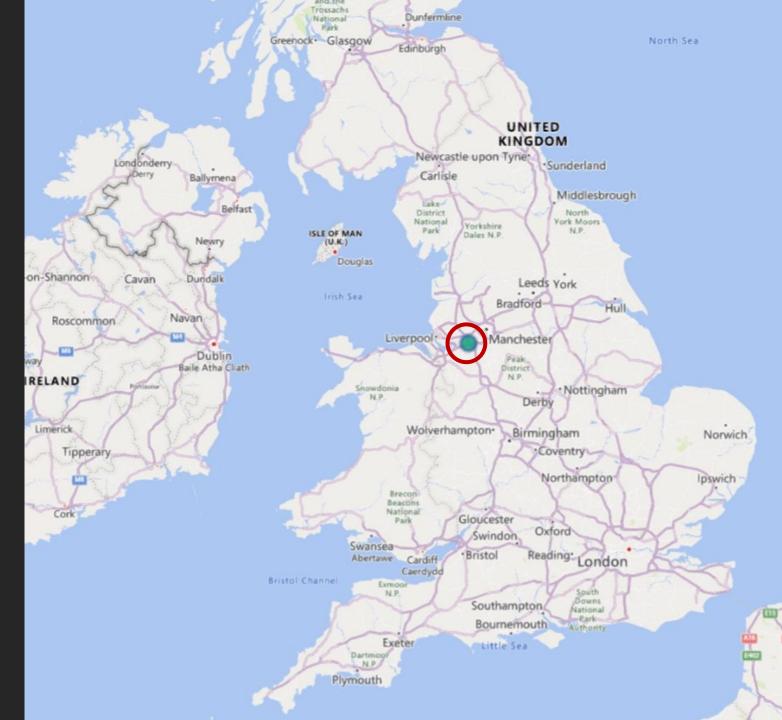
Record ID	Date	Time	Directorate	Region	Programme	Site / Project		Type of TTM			Details of actual job being done		Immediate Actions Taken
140753	04/04/202	14:15:00	Operation	North	North	Area 10	Not	Not	Carriagew	M6 J20	Veg	Side window shattered after	Drove to site parked up and
	3		s	West -	West -		populated	populated	ay A	MP	clearance	lorry passed by at speed while	called for assistance
				Operation	Area					2989/2		I was on hard shoulder unable	
				S	Contracts							to look at road side so came	
												back to compound .	
												Coned area off to side and	
												contacted Roocroft office	

Mobile Carriageway Closure (by Contractor) - EMCC

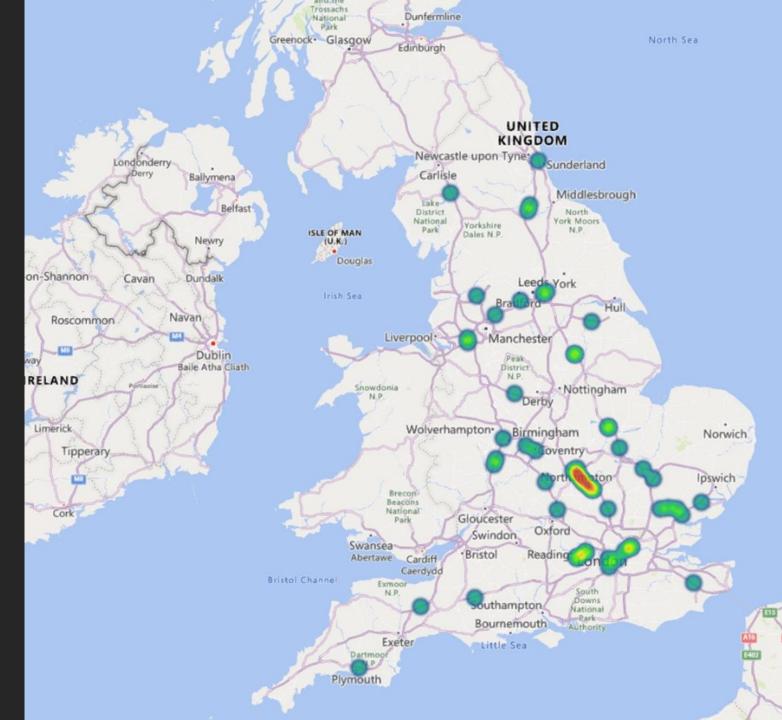
1 incursions have been recorded since November 2022 with 0 being recorded in April 2023 (Edited Record)

Record ID	Date	Time	Directorate	Region	Programme	Site / Project	Road classification	Type of TTM	Incursion type	Vehicle registration
137305	24/01/2023	00:10:00	•	Yorkshire & North East - Operations		Area 12		Lane Closure - Mainline		Vehicle 'Registration' not recorded

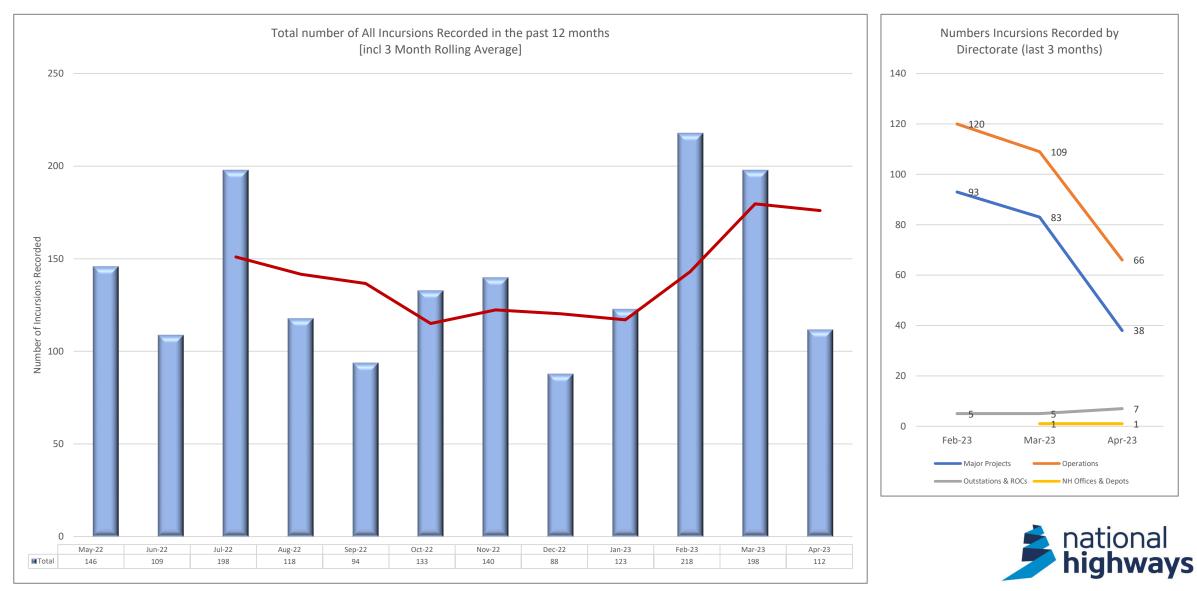
Heatmap of IPV Strikes recorded during April 23



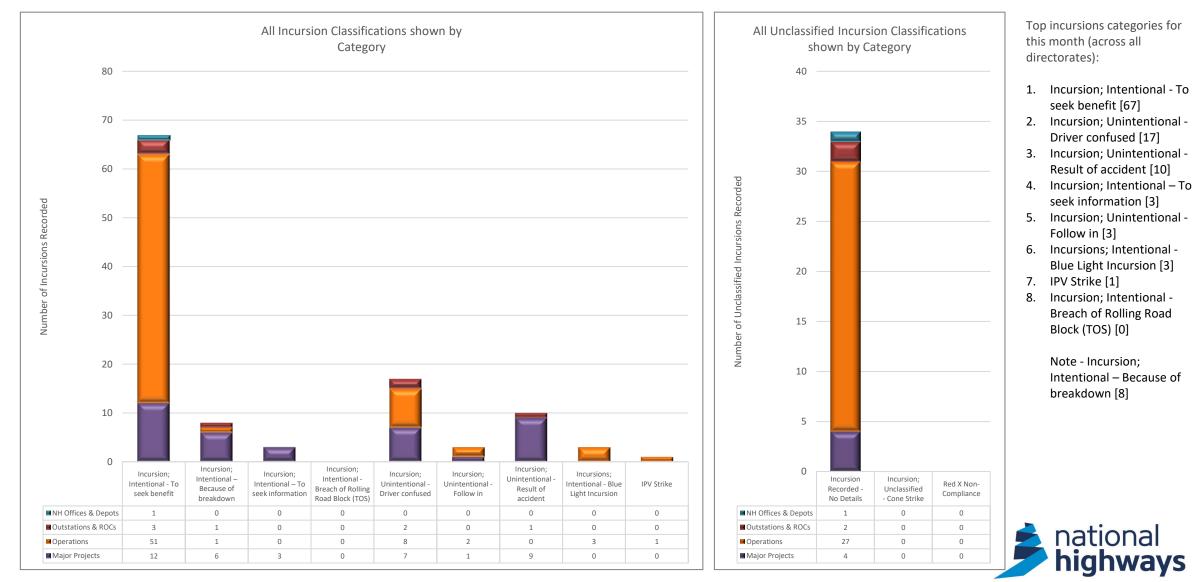
Heatmap of all IPV Strikes recorded



Incursions Report – All Incursions



Incursions Report – All Incursions during April 23



Incursions Report – Overall Risk Ratings

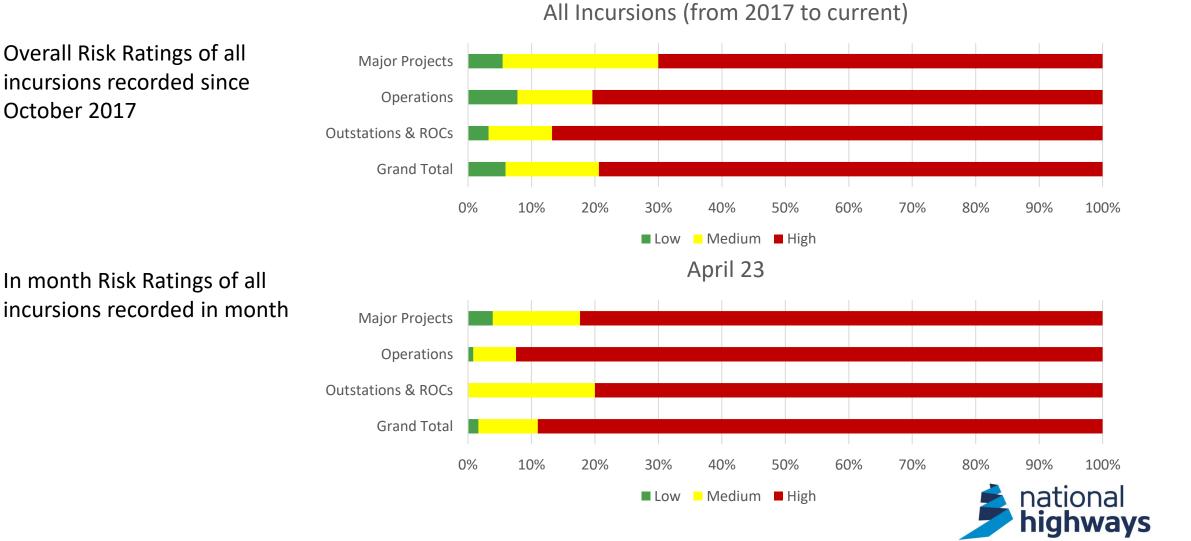


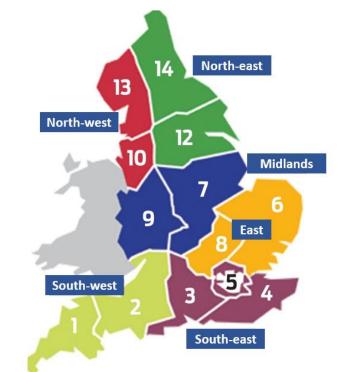
Table shows the average number of incursions recorded by directorate and type in the past 12-month period.

	[Directorate	2	
Incursion Category	Major Projects	Operations	Outstations & ROCs	Comments
Incursion; Intentional - To seek benefit	21.67	36.08	2.08	To 'Seek Benefit' incursions is higher in Operations
Incursion; Intentional – To seek information	1.17	0.83	0.00	To 'Seek Information' incursions has increased from the previous month in Operations
Incursion; Intentional – Because of breakdown	31.92	3.33	0.33	'Breakdowns' is substantially higher in Major Projects (due to the number of long-term closures being installed)
Incursion; Intentional - Breach of Rolling Road Block (TOS)	0.17	0.00	0.67	
Incursion; Unintentional - Driver confused	12.42	10.17	1.50	'Driver Confused' incursions is higher in Major Projects then it is in Operations
Incursion; Unintentional - Follow in	1.75	2.50	0.17	'Follow in' incursions is higher in Operations then it is in Major Projects
Incursion; Unintentional - Result of accident	3.50	1.33	0.42	'Result of an Accident' incursions is higher in Major Projects then it is in Operations
IPV Strike	0.42	1.50	0.17	'IPV Strike' is higher in Operations
Incursions; Intentional – Blue Light Incursion	2.50	2.83	0.00	'Blue Light' incursions is slightly higher in Operations

Incursions Report for Major Projects

Incursions recorded by Region

Rolling 6 Month totals of All Incursion as recorded by Regions & ranked in order	Total
North West - Major Projects	221
Yorkshire & North East - Major Projects	67
Midlands - Major Projects	41
South East - Major Projects	38
East - Major Projects	15
South West - Major Projects	6



	Incursion Categories										
In Month Incursion Figures by Region and by Incursion Type	Seek Benefit	Seek Information	Breach of Rolling Roadblock (TOS)	Driver confused	Follow-In	Result of accident	IPV Strike	Blue Light Incursion	Because of Breakdown	Total	
Yorkshire & North East - Major Projects	3	1	0	2	1	2	0	0	3	12	
South East - Major Projects	3	1	0	1	0	5	0	0	1	11	
North West - Major Projects	2	1	0	3	0	1	0	0	1	8	
Midlands - Major Projects	3	0	0	1	0	1	0	0	1	6	
East - Major Projects	1	0	0	0	0	0	0	0	0	1	
South West - Major Projects	0	0	0	0	0	0	0	0	0	0	

Incursions Report for Major Projects

12 month rolling average of the number of all 'Incursions per Month'*

0	
MP-0206 - M56 J6 to j8	13.67
64 - M6 J21A to 26 - SMA	7.25
Wisley Interchange - RDP	2.33
1-7 Improvements - RDP	2.17
oal House Widening - RDP	2.17
J3 to12 Smart Motorway	2.08
0155 - M3 J9 to 14 - SMA	1.50
/16 J10 Improvement - RIP	1.33
d to North Brunton - RDP	1.17
MP-0147 - M1 J13 to J16	1.08
6 - A63 Castle Street - RIP	1.00
35 - M42 Junction 6 - RDP	0.92
n 1-7 Improvements - RIP	0.92
Smart Motorways - SMA	0.67
MP-0169 - M27 J4 to 11	0.58
dge Replacement Scheme	
- M4 J19-20 & M5 J16-17	
MP-0450 - M6 J4-5	
292 - M60 Simister Island	
ion 9 Improvement - RDP	

MP-0164 - M MP-0273 - M25 J10/A3 Wisley MP-0214 - M621 Junction 1-7 In MP-0212 - A1 Birtley to Coal Hou MP-0156 - M4 J3 to1 MP-0155 -MP-0234 - M6 J10 MP-0211 - A1 Scotswood to No MP-02 MP-0116 - A63 MP-0235 - M4 MP-0214 - M621 Junction 1-7 Ir MP-0280 - M40/M42 Interchange Smart MP-0 MP-0415 - A533 Expressway Bridge Rep MP-0454 - M4 J MP-0292 - N MP-0262 - M3 Junction 9 I



• Excluding incursions as a result of breakdown

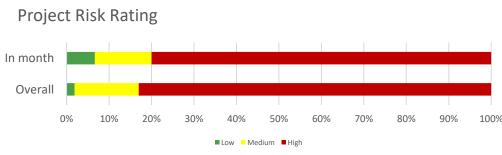
Duplicate scheme names are as a result of the change from Airsweb to HART

Incursions Report for Major Projects

3 Month Incursion analysis

- MP-0214 M621 Junction 1-7 Improvements RDP a total of 5 incursions have been recorded; with a 100% increase in 'Seeking Benefit' type incursions together with a 100% increase in 'Result of accident', 100% increase in 'To seek information' and a 67% decrease in 'Driver confused' incursions
 - Bottom left Project Incursion Risk Rating with 'In-month' rating being worse than the 'Overall' rating & incursion rate per length of TM
 - Bottom middle Time profile for 'Driver Confused' incursion types
 - Bottom right localised heatmap of 'Driver Confused' incursion types

Type of Roadworks:Not Populated / Lane Closures (mainline)Type of TTM:Not Populated / Hard shoulder closures

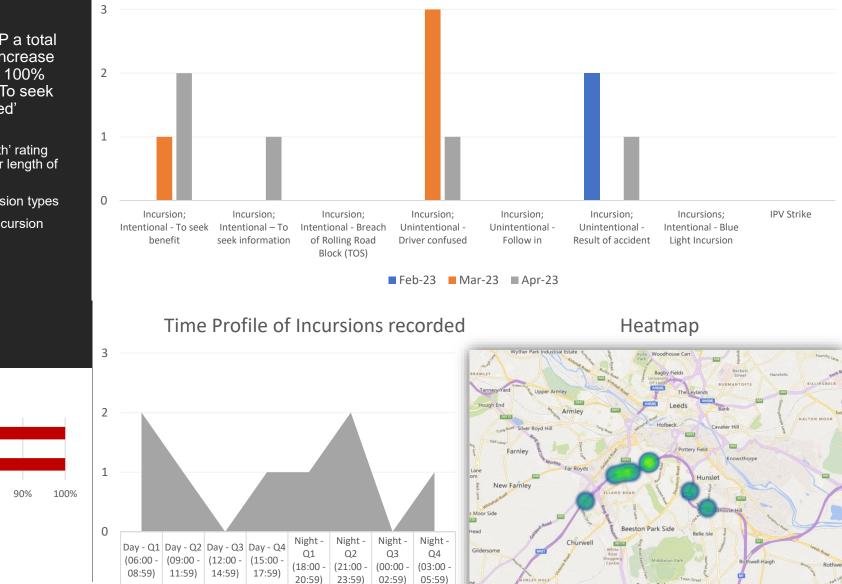


Incursion rate per length of TM (4.8km)

Project Incursion Rate: 6.67 incursions/km or 10.73 incursions/miles

Breakdown Rate: 4.17 incidents/km or 6.70 incidents/miles

MP-0214 - M621 Junction 1-7 Improvements



0

2

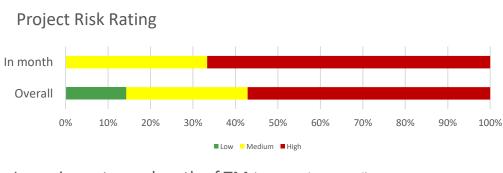
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Incursions Report for **Major Projects**

3 Month Incursion analysis

- MP-0280 M40/M42 Interchange Smart Motorways SMA a total of 2 incursions have been recorded; with a no change from the previous month in 'Seeking Benefit' type incursions together with a 50% decrease in 'Driver confused' type incursions
 - Bottom left Project Incursion Risk Rating with 'In-month' rating being worse than the 'Overall' rating & incursion rate per length of ТΜ
 - Bottom middle Time profile for 'Driver Confused' incursion types
 - Bottom right localised heatmap of 'Driver Confused' incursion types

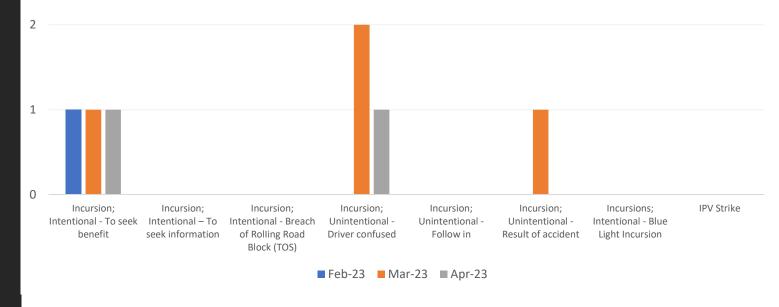
Type of Roadworks:	Full Closure / Lane Closures (mainline)
Type of TTM:	Not Populated / Hard shoulder closures



Incursion rate per length of TM (TM Length required)

Project Incursion Rate: TM Length required TM Length required Breakdown Rate:

MP-0280 - M40/M42 Interchange Smart Motorways - SMA

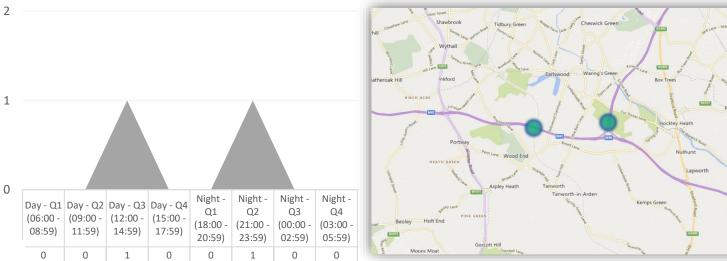




2

1

Heatmap

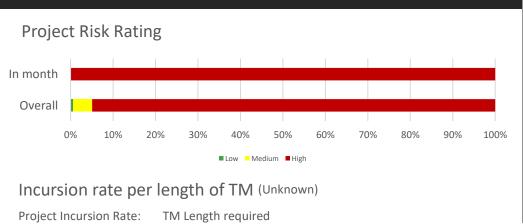


Incursions Report for Major Projects

3 Month Incursion analysis

- MP-0147 M1 J13 to J16 a total of 1 incursions have been recorded; with a 100% increase in 'Seeking Benefit' type incursions
 - Bottom left Project Risk Rating with 'In-month' rating being worse than the 'Overall' rating & incursion rate per length of TM
 - Bottom middle Time profile for 'IPV Strike' incursion types
 - Bottom right localised heatmap of 'IPV Strike'

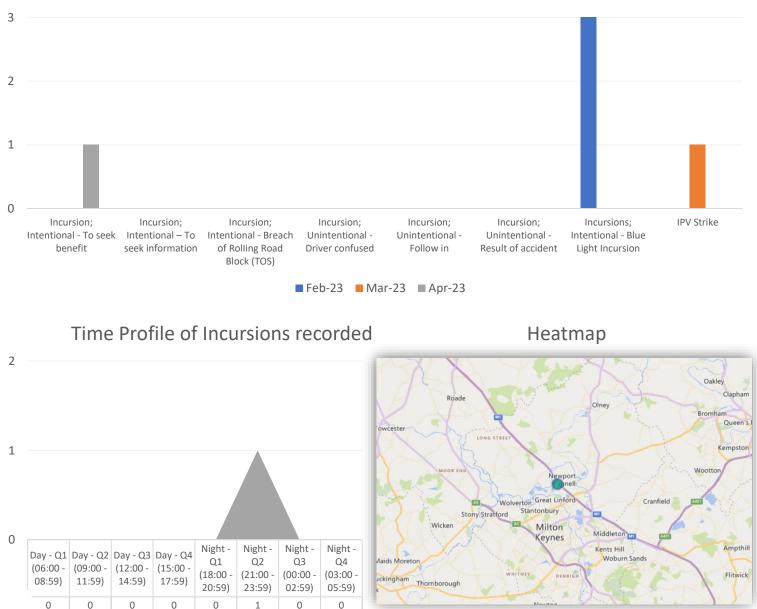
Type of Roadworks:	Full & Lane Closures (Mainline & Slip)
Type of TTM:	Not Populated / Relaxed works (Lane & slip & links closures)



TM Length required

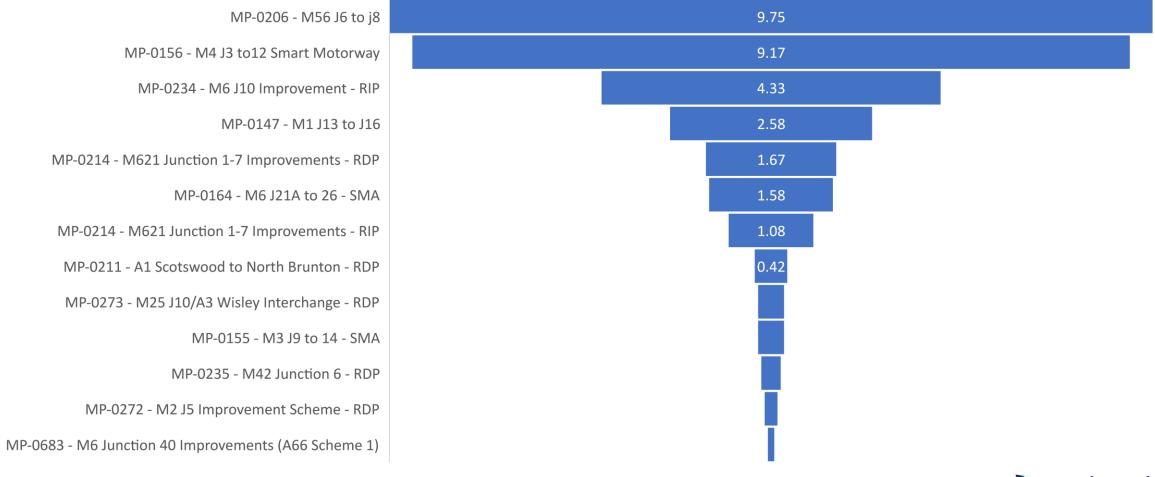
Breakdown Rate:

MP-0147 - M1 J13 to J16



Incursions Report for Major Projects

12 month rolling average of the number of 'Breakdown Incursions per Month' (only)





12 month rolling average of the number of all 'Incursions per Month'*

0	
DBFO - M25 (Area 5)	14.50
Area 6 & 8	12.42
Area 4	7.33
Area 9	2.42
AD - M&R - Seven	2.42
Area 10	2.00
Area 3	1.25
AD - Construction - Thirteen	1.25
Area 7	1.17
Area 1 & 2	1.08
AD - Construction - Fourteen	1.08
Area 13	0.92
DBFO - M40 J1-15 Denham to Warwick (area 30)	0.83
Area 14	0.83
M62 J28 - J29 & M1 J42 – M621 J7 Concrete Barrier	0.75
Area 12	0.67
AD - M&R - Twelve	0.67
AD - M&R - Ten	0.58
AD - Construction - Ten	0.67 0.58 0.58
AD - M&R - Eight	



Report to show numbers of Incursions recorded by Region and ranked from highest to lowest

Rolling 6 Month Incursion Figures (as recorded by Regions & ranked)	Total
South East – Operations	203
East – Operations	103
Yorkshire & North East – Operations	52
Midlands – Operations	48
North West – Operations	35
South West - Operations	12

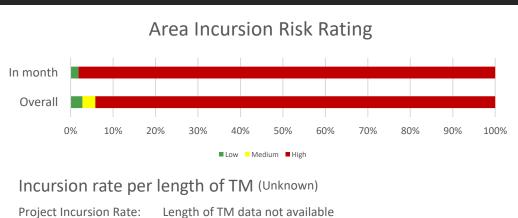


In month	Incursion Categories									
	Seek Benefit	Seek Information	Breach of Rolling Roadblock (TOS)	Driver confused	Follow-In	Result of accident	IPV Strike	Blue Light Incursion	Because of Breakdown	Total
South East – Operations	22	0	0	2	1	0	0	2	0	27
East – Operations	8	0	0	5	0	0	0	1	0	14
Yorkshire & North East – Operations	11	0	0	0	0	0	0	0	0	11
Midlands – Operations	6	0	0	1	1	0	0	0	1	9
North West – Operations	3	0	0	0	0	0	1	0	0	4
South West - Operations	1	0	0	0	0	0	0	0	0	1

3 Month Incursion analysis

- DBFO M25 (Area 5) a total of 14 incursions have been recorded; with a 100% increase in 'Blue Light' type incursions together with a 100% increase in 'Follow in' incursions, with a 50% decrease in 'Seeking Benefit' type incursions
 - Bottom left Area Incursion Risk Rating with 'In-month' rating being worse than the 'Overall' rating
 - Bottom middle Time profile for 'all' incursion types
 - Bottom right localised heatmap 'all' incursion types

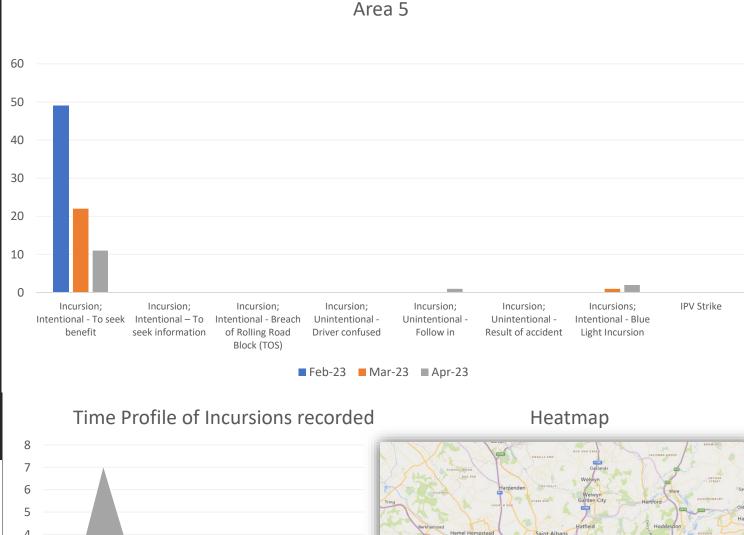
Type of Roadworks:	Full & Lane closures
Type of TTM:	Various Relaxation (Full / Lane / Slip) and Standard (Contraflow / Narrow and Single)

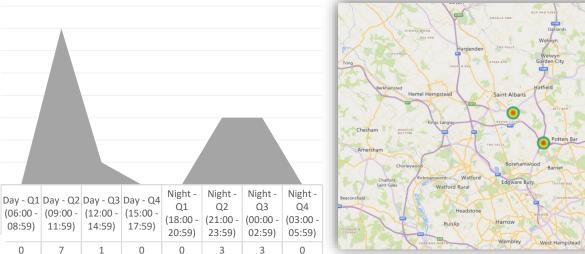


Length of TM data not available

Breakdown Rate:

0



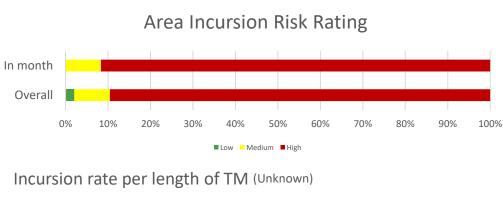


3 Month Incursion analysis

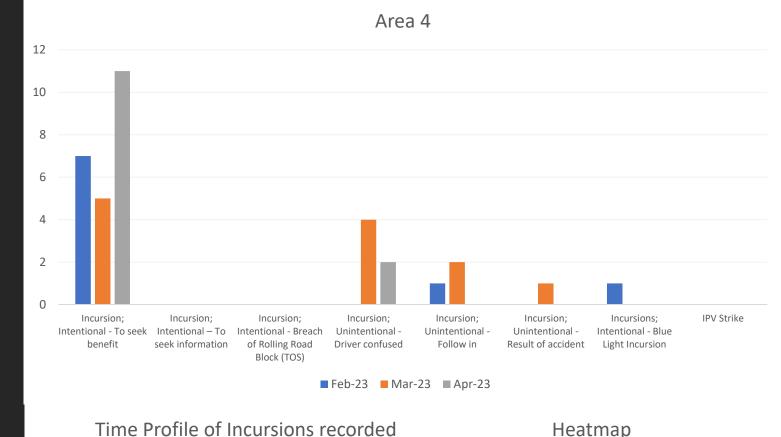
- Area 4 a total of 13 incursions have been recorded; with a 120% increase in 'Seeking Benefit' type incursions together with a 50% decrease in 'Driver confused' type incursions
 - Bottom left Area Incursion Risk Rating with 'In-month' rating worse than 'Overall' rating
 - Bottom middle Time profile for 'all' incursion types recorded
 - Bottom right localised heatmap of 'all' incursion types recorded

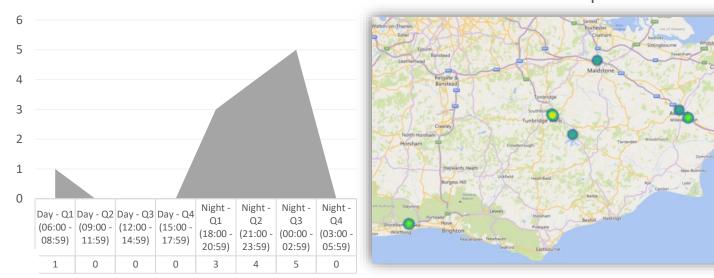
Type of Roadworks:	Full & Lane closures
Type of TTM:	Various Relaxation (Full / Lane /

Various Relaxation (Full / Lane / Slip) and Standard (Contraflow / Narrow and Single)







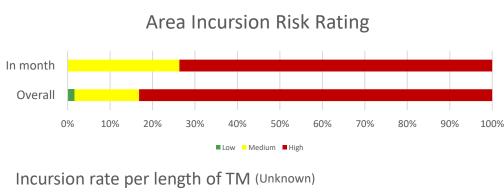


3 Month Incursion analysis

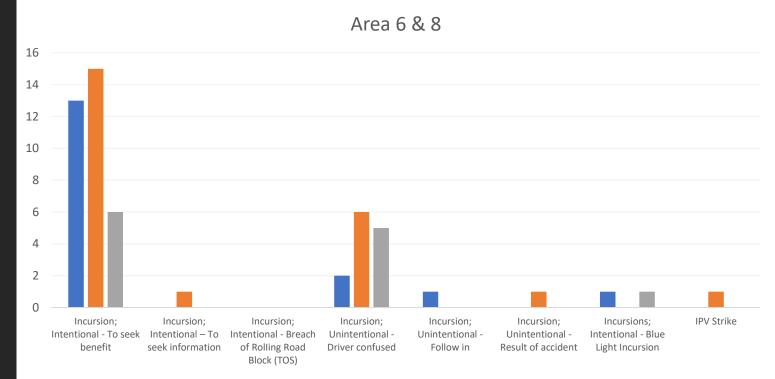
- Area 6 & 8 a total of 12 incursions have been recorded; with a 100% increase in 'Blue Light' type incursions together with a 17% decrease in 'Driver confused' and 60% decrease in 'Seeking Benefit' type incursions
 - Bottom left Area Incursion Risk Rating with 'In-month' rating worse than 'Overall' rating
 - Bottom middle Time profile for 'all' incursion types recorded
 - Bottom right localised heatmap of 'all' incursion types recorded

Type of Roadworks:	Full & Lane closures
Type of TTM:	Various Relaxation (Full / Lane

Various Relaxation (Full / Lane / Slip) and Standard (Contraflow / Narrow and Single)



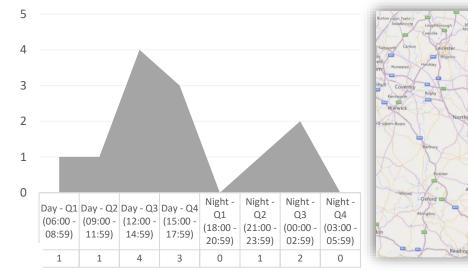








Heatmap



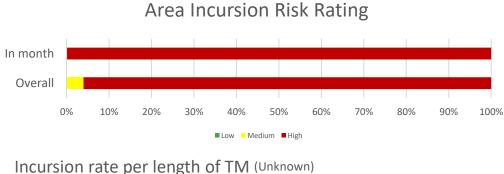


3 Month Incursion analysis

- AD Construction Fourteen a total of 6 incursions have been recorded; with a 20% increase in 'Seeking Benefit' type incursions
 - Bottom left Area Incursion Risk Rating with 'In-month' rating being worse than the 'Overall' rating
 - Bottom middle Time profile for 'all' incursion types
 - Bottom right localised heatmap 'all' incursion types

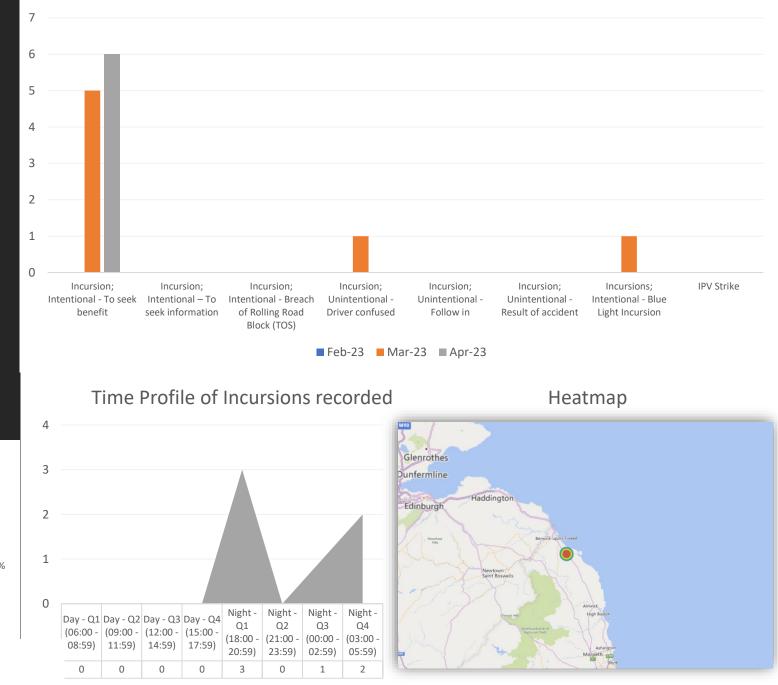
Type of Roadworks:	Full Closure (Slip Road) / Lane Closures (Mainline and Slip) / Not populated

Type of TTM: **Relaxation & Standard works**

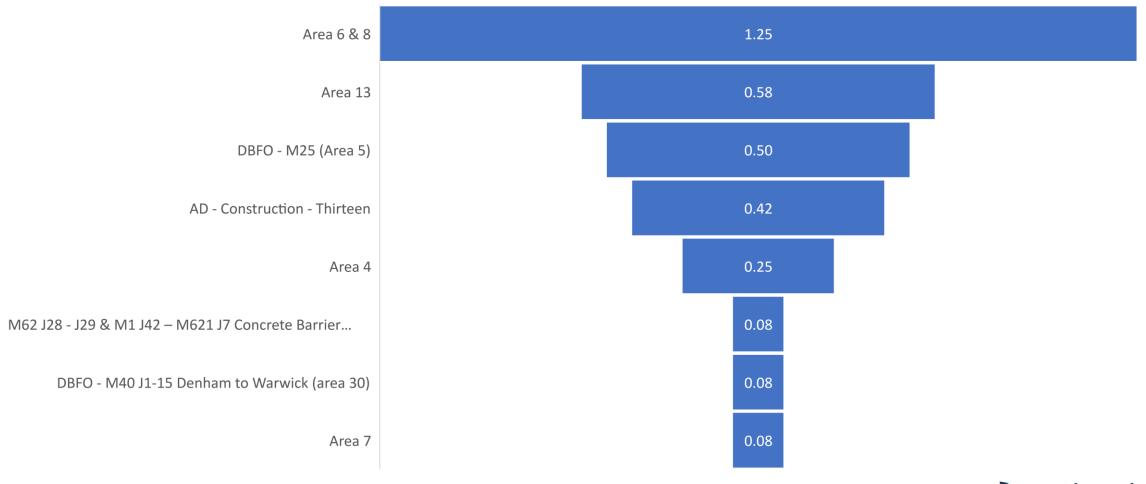


Project Incursion Rate:	Length of TM data not available
Breakdown Rate:	Length of TM data not available

AD - Construction - Fourteen



12 month rolling average of the number of 'Breakdown Incursions per Month' (only)





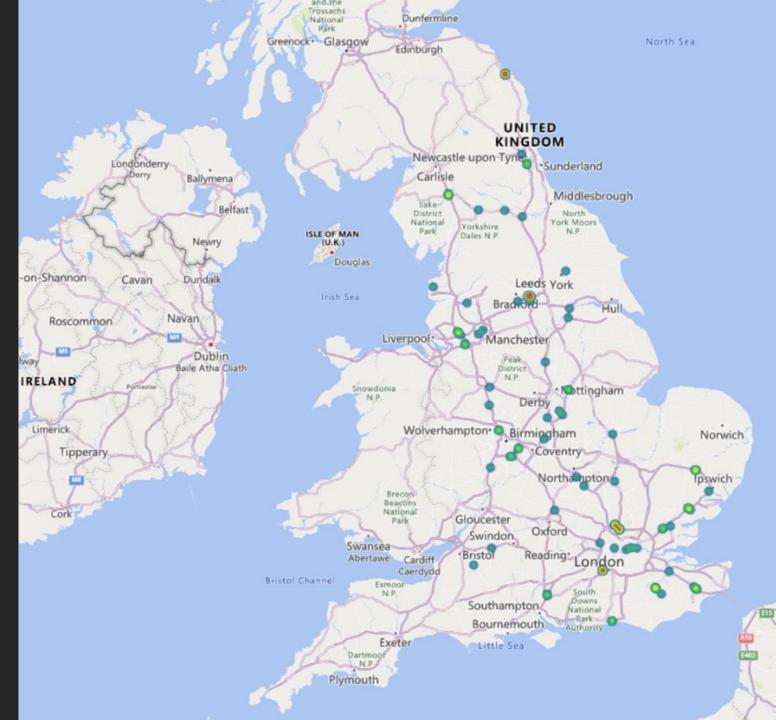
Incursions Report for Outstation (Traffic Officers)

12 month rolling average of the number of 'All Incursions types as recorded by our Traffic Officers per Month'

Knutsford Outstation	0.67	
Sprotborough Outstation	0.58	
South Mimms Outstation	0.42	
Rob Lane Outstation	0.33	
Milness Outstation	0.25	
Chieveley Outstation	0.25	
Barton Outstation	0.25	
Toddington Outstation	0.17	
Shepshed Outstation	0.17	
Samlesbury Outstation	0.17	
Milton Common Outstation	0.17	
Longbridge Outstation	0.17	
Felley Outstation	0.17	
Whittlesford Outstation	0.08	
West Midlands Outstation	0.08	
West Cowick Outstation	0.08	📥 national
Tingley Outstation	0.08	national highways
Strensham Outstation	0.08	

Heatmap of Incursions recorded in April 2023

 "100% of all incursions were recorded with coordinates"



Heatmap of all Incursions recorded (for the past 12 months)

