

## IPV & Incursion Working Group Report – October 2023

Nick Nandhra Project Manager - Major Projects Customer Service and Stakeholder Division

Rev 0 – 03/11/2023 Data Source: HART [WD2]

### **Incursions Report - Headline**

To date, the total number of incursions recorded since October 2017 is **14444** 

	Directorate										
Kind of Event	Major Projects	Operations	Outstations & ROCs	NH Offices & Depots	Grand Total						
Incursion; Intentional - To seek benefit	817	2045	594	58	3514						
Incursion; Intentional – Because of breakdown	4096	385	142	3	4626						
Incursion; Intentional – To seek information	55	87	29	5	176						
Incursion; Intentional - Breach of Rolling Road Block (TOS)	4	23	871	8	906						
Incursion; Unintentional - Driver confused	868	621	268	40	1797						
Incursion; Unintentional - Follow in	150	180	16	3	349						
Incursion; Unintentional - Result of accident	281	177	69	5	532						
Incursions; Intentional - Blue Light Incursion	50	70	1	0	121						
IPV Strike	18	58	11	0	87						
Incursion to seek information or benefit	233	1085	174	18	1510						
Incursion unintentional - confused or follow in	181	429	210	6	826						
Grand Total	6753	5160	2385	146	14445						

		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%)	1808 (-54.1%)	1669							



### **Incursions Report - Headline**

### **212** Incursions were recorded for October 2023

	Directorate										
Kind of Event	Major Projects	Operations	Outstations & ROCs	NH Offices & Depots	Grand Total						
Incursion; Intentional - To seek benefit	21	87	6		114						
Incursion; Intentional – Because of breakdown	19	13			32						
Incursion; Intentional – To seek information	1	1			2						
Incursion; Intentional - Breach of Rolling Road Block (TOS)											
Incursion; Unintentional - Driver confused	20	14	3		37						
Incursion; Unintentional - Follow in	3	4			7						
Incursion; Unintentional - Result of accident	4	5			9						
Incursions; Intentional - Blue Light Incursion	4	3			7						
IPV Strike		2			2						
Grand Total	72	129	9	0	210						

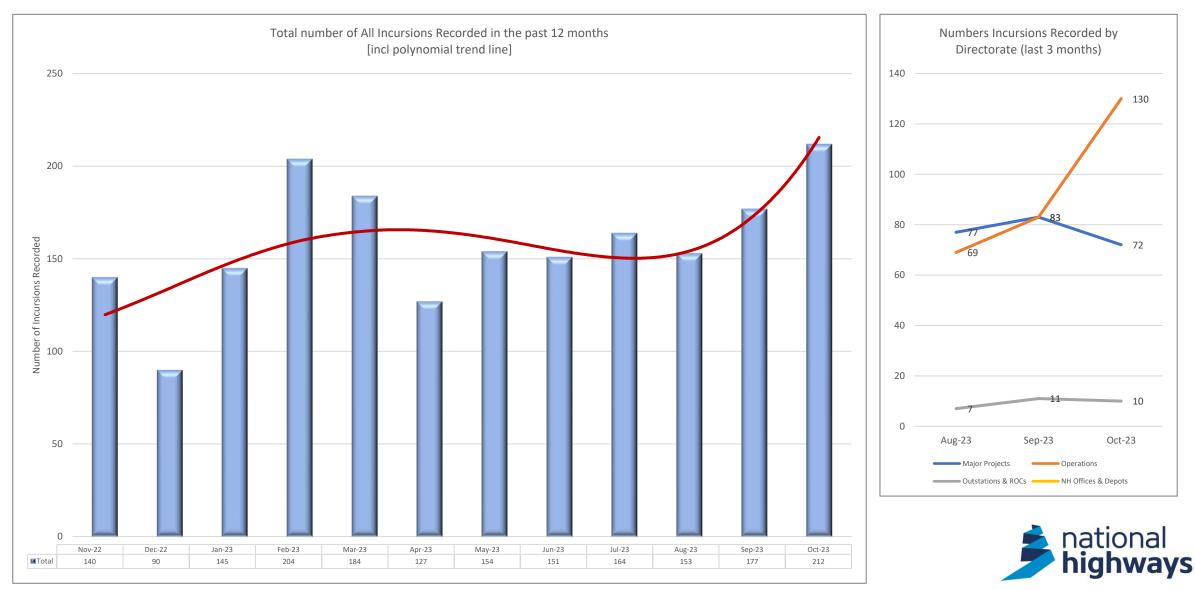


### **Incursions Report - Headline**

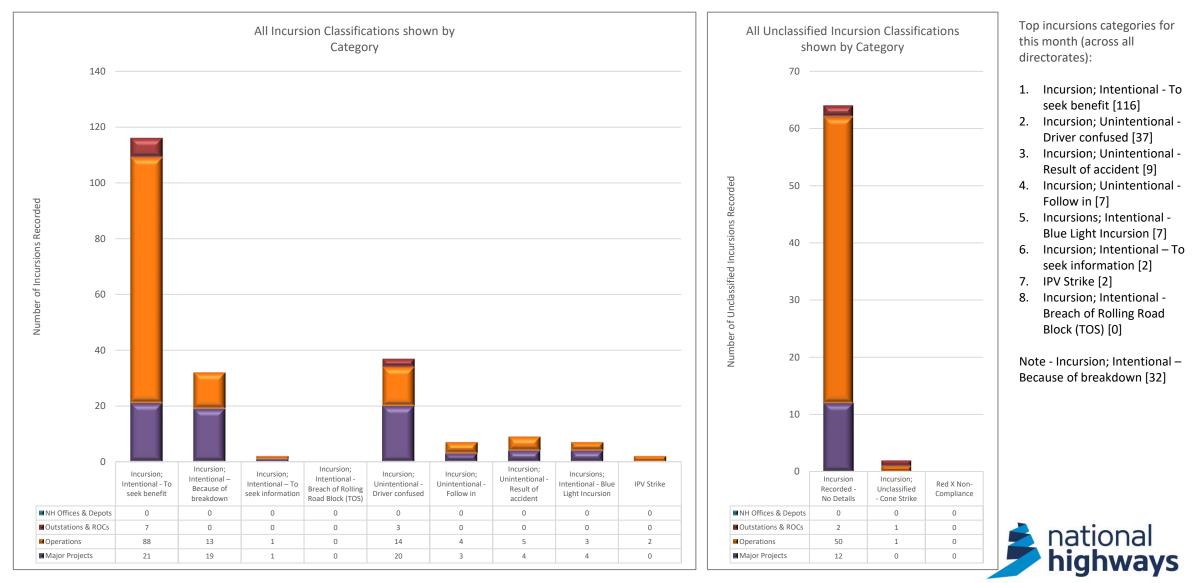
Table shows the average number of incursions recorded by directorate and type in the past 12-month period.

	[	Directorate	2	
Incursion Category	Major Projects	Operations	Outstations & ROCs	Comments
Incursion; Intentional - To seek benefit	15.08 (个)	51.33 (个)	4.83 (个)	Average incursions numbers have increased in all directorates and by 9% in Operations
Incursion; Intentional – To seek information	0.83 (↓)	1.42 (个)	0.00 (=)	Average incursions numbers are broadly similar to last month's figures with a slight increase shown in Operations
Incursion; Intentional – Because of breakdown	25.17 (↓)	5.83 (个)	0.42 (个)	'Breakdowns' is substantially higher in Major Projects and have fallen slightly
Incursion; Intentional - Breach of Rolling Road Block (TOS)	0.00 (↓)	0.08 (个)	0.67 (个)	
Incursion; Unintentional - Driver confused	14.58 (个)	14.00 (个)	1.50 (个)	Average incursions numbers have increased in all directorates and by 10% in MP
Incursion; Unintentional - Follow in	2.67 (个)	3.83 (↓)	0.17 (=)	Average incursions numbers are broadly similar to last month's figures with a slight decrease shown in Operations
Incursion; Unintentional - Result of accident	4.50 (个)	3.17 (个)	0.42 (=)	Average incursions numbers have shown a slight increase in both MP and Operations
IPV Strike	0.25 (=)	1.58 (↓)	0.42 (个)	Average numbers for 'IPV Strike' is higher in Operations then in MP
Incursions; Intentional – Blue Light Incursion	2.92 (=)	4.67 (=)	0.08 (=)	Average numbers for 'Blue Light' incursions is higher in Operations & remained similar to last month

### **Incursions Report – All Incursions**



### **Incursions Report – All Incursions during October 23**



### **Incursions Report for Major Projects**

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

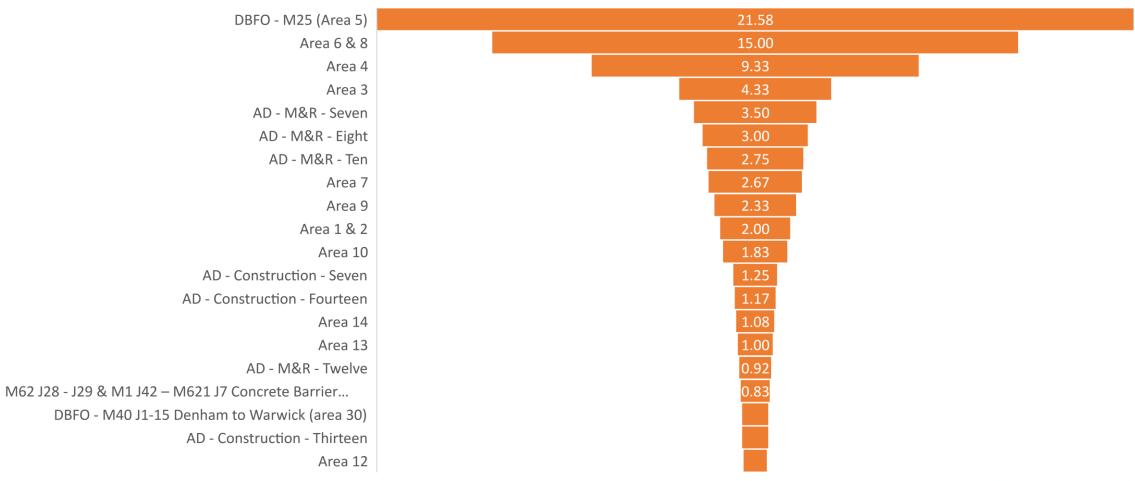
-	-
SMA	6.50
RDP	4.67
RDP	4.25
RDP	3.67
2-35a	3.42
SMA	2.75
to j8	2.67
.6-17	1.33
SMA	1.33
- RIP	1.33
- RIP	1.00
RDP	0.92
o J16	0.67
5 J4-5	0.58
RDP	0.50
trofit	0.42
neme	0.42
RDP	0.42
RDP	0.42
rway	0.42



MP-0164 - M6 J21A to 26 - S MP-0212 - A1 Birtley to Coal House Widening - F MP-0214 - M621 Junction 1-7 Improvements - F MP-0273 - M25 J10/A3 Wisley Interchange - I MP-0152 - M1 J32-MP-0155 - M3 J9 to 14 - S MP-0206 - M56 J6 t MP-0454 - M4 J19-20 & M5 J16 MP-0280 - M40/M42 Interchange Smart Motorways - S MP-0116 - A63 Castle Street -MP-0234 - M6 J10 Improvement -MP-0235 - M42 Junction 6 -MP-0147 - M1 J13 to MP-0450 - M6 MP-0290 - A585 Windy Harbour to Skippool - I MP-0672 - Places of Relative Safety Retr MP-0415 - A533 Expressway Bridge Replacement Sche MP-0240 - A47 Blofield to North Burlingham dualling - F MP-0211 - A1 Scotswood to North Brunton - F MP-0156 - M4 J3 to12 Smart Motory

### **Incursions Report for Operations Directorate**

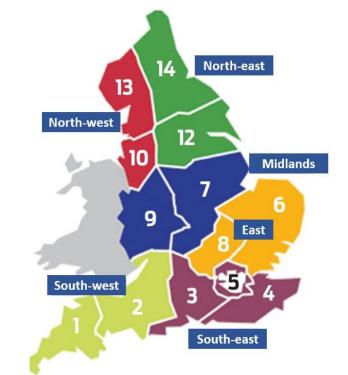
12 month rolling average of the number of all 'Incursions per Month'\*



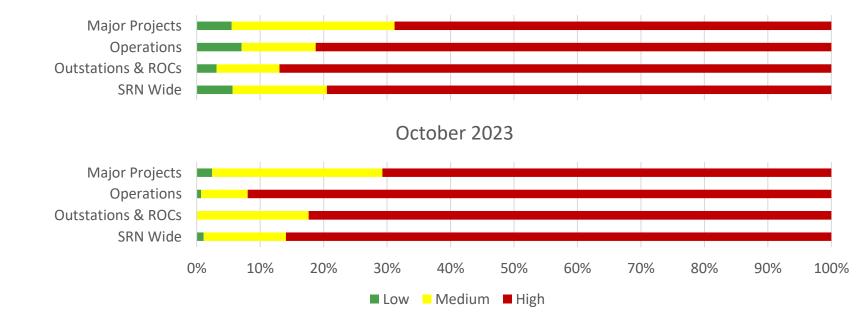


### **Incursions Report by Region & Risk**

Rolling 6 Month totals of All Incursion	Number of	Total	
as recorded by Regions & ranked in order	Major Projects	Operations	IOLAI
South East	55	245	300
Midlands	124	87	211
East	11	159	170
Yorkshire & North East	108	33	141
North West	70	47	117
South West	14	20	34



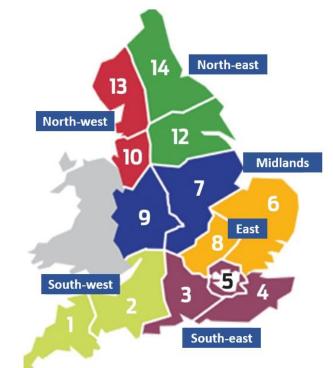
All Incursions (from 2017 to current)



Incursion Risk Ratings for all incursions recorded and in month

### **Incursions Report by Region & Category**

Rolling 6 Month totals of All Incursion	Number of	Total			
as recorded by Regions & ranked in order	Major Projects	Operations	iotai		
South East	55	245	300		
Midlands	124	87	211		
East	11	159	170		
Yorkshire & North East	108	33	141		
North West	70	47	117		
South West	14	20	34		



								Inci	ursion	Catego	ries										
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		Totals		
	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops	Total
South East	1	48	0	1	0	0	3	5	0	0	0	1	0	1	0	1	1	4	5	61	66
Midlands	2	11	0	0	0	0	6	3	1	1	3	0	0	0	3	0	16	1	31	16	47
East	4	12	1	0	0	0	0	6	0	1	0	3	0	1	0	1	0	7	5	31	36
Yorkshire & North East	10	5	0	0	0	0	9	1	2	0	0	0	0	0	0	0	2	1	23	7	30
North West	4	12	0	0	0	0	4	1	0	0	1	1	0	0	1	0	1	0	11	14	25
South West	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	4	4

### **Blue Light Incursions Report - Headline**

**122** Blue Light Incursions have been recorded since February 2022 with **7** being recorded in October 2023 (Edited Record)

Record ID	Date	Time	Directorate	Region	Programme	Site / Project	Type of Closure	Type of TTM	Location			Describe the facts of what happened	Immediate Actions Taken
146140	05/10/202 3	07:55:00	Operation s		- DBFO		Not populated	Not populated	Not populated	Not populated	Road closure	Unmarked police car with blue lights in cut through the TM where operatives were working	Made sure everyone was aware of surroundings and to remain vigilant
146187	05/10/202 3	14:40:00	Projects			MP-0152 - M1 J32- 35a		Not populated	Not populated	Not populated	-	To facilitate the clear up of a 5-vehicle road traffic collision (RTC) on the M1 southbound carriageway between junctions 35 – 34, site liaised with the emergency services and cleared our works area to allow them access to the scene of the incident	
146303	10/10/202 3	10:48:00	Projects		West - RIP		Closure - Mainline	Relaxation works – Lane closure	Working on SRN	Not populated	Lane closure.	A police vehicle was observed passing through the temporary traffic lights	I promptly reported the incident on Hart

### **Blue Light Incursions Report - Headline**

**122** Blue Light Incursions have been recorded since February 2022 with **7** being recorded in October 2023 (Edited Record)

Record ID	Date	Time	Directorate	Region	Programme	Site / Project		Type of TTM				Describe the facts of what happened	Immediate Actions Taken
146626	20/10/202	09:10:00			West -	Area 1 & 2	Closure - Mainline		Carriagew ay B	populated	n managem ent	verge to allow emergency services to travel through the site.	Operatives stopped works and placed the vehicle on the verge to allow a clear passage for emergency services.
146805	26/10/202 3	23:34:00	Operation s	East - Operation s		0	Closure - Mainline		ау В	•	g works	2 x Ambulances were weaving in and out of the 1/2/3 lane closure with their blues on	Workforce told to be vigilant.
146860	30/10/202 3		Projects	Midlands - Major Projects	Midlands - SMP			Not populated	-	175/0 and	Technolog	through works closure at high speed. No registration gained	-

### **Blue Light Incursions Report - Headline**

**122** Blue Light Incursions have been recorded since February 2022 with **7** being recorded in October 2023 (Edited Record)

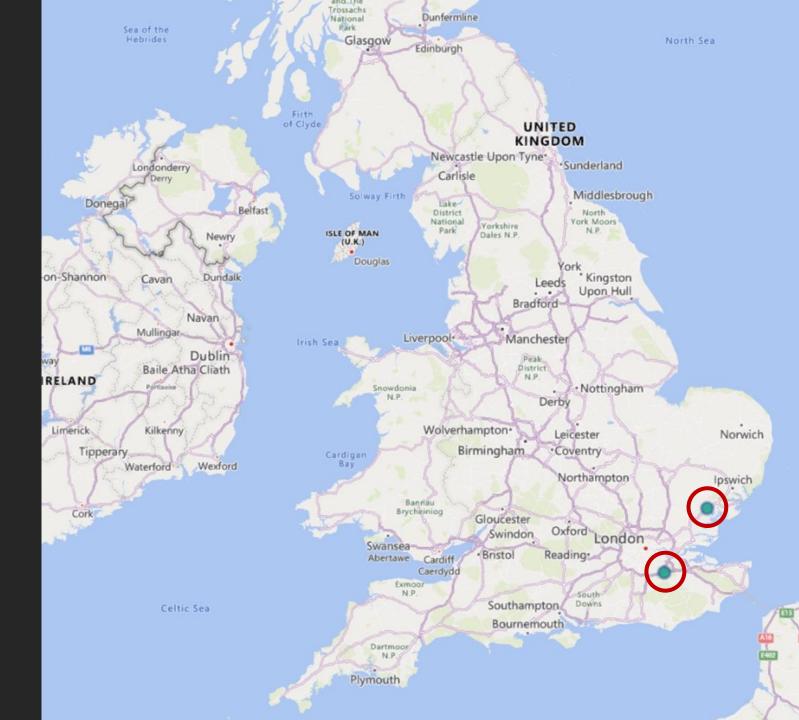
Record ID	Date	Time	Directorate	Region	Programme		Type of Closure	Type of TTM	Location	Specific Location	Details of actual job		Immediate Actions Taken
						FTOJECI	Closure			Location	being done		
146862	27/10/202	23:12:00	Major	Midlands -	Midlands -	MP-0450 -	Lane	Relaxation	Carriagew	M6 4-5	Verge	1 No ambulance drove	McCanns reported to TSCO.
	3		Projects	Major	SMP	M6 J4-5	Closure -	works –	ay A	175/0 -	works -	through works access within	No persons were injured
				Projects			Mainline	Lane		178/0	Technolog	NB closure at high speed.	and no works vehicles or
								closure			y works -	Registration Number	plant struck
											Night	BU71XYR	Ambulance travelled
											Works	There was one lane closed	through works at high speed
												and traffic at time was light	so was unable to take
													registration number

### **IPV Strike Report - Headline**

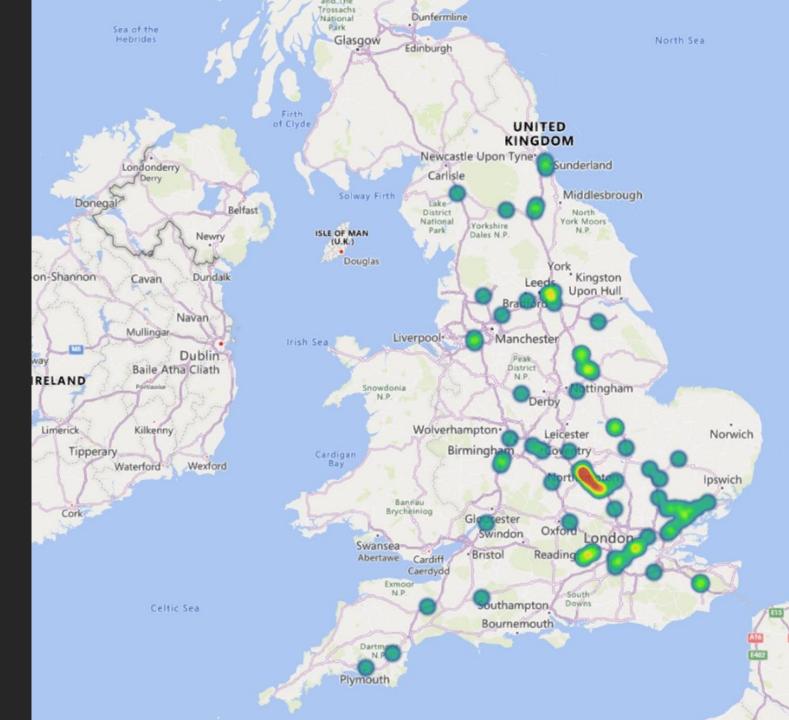
**89** IPV strikes have been recorded since October 2019 with **2** being recorded in October 2023 (Edited Record)

Record ID	Date	Time	Directorate	Region	Programme	Site / Project		Type of TTM		-		Describe the facts of what happened	Immediate Actions Taken
146490	15/10/202 3	05:38:00	Operation s	East - Operation s	East - Area Contracts		Closure - Mainline	Relaxation works – Full main carriagew ay closure	managem ent	Not populated	Traffic Managem ent Removal	alleged hit and run incident when the IPV was removing	Reported to TSCO and on call supervisor NH HART upload
146750	25/10/202 3	03:20:00	Operation s	South East - Operation s	- DBFO	M25 (Area	Mainline	Relaxation works – Full main carriagew ay closure	•	Not populated	of traffic	The IPV was struck by a BMW X5, which ended up in the central reservation on top of the VRS, the member of the public driver got out and ran away from the scene.	Incident was reported to the police, who subsequently attend site. IPV driver attended hospital as a precaution – no injuries sustained

Heatmap of IPV Strikes recorded during October 23



# Heatmap of all IPV Strikes recorded

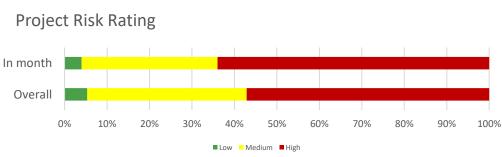


### Directorate: Major Projects Region: North West

3 Month Incursion analysis

- MP-0212 A1 Birtley to Coal House Widening RDP a total of 18 incursions have been recorded; with a 700% increase in 'Seeking Benefit' type incursions together with a no change from the previous month in Driver confused' 33% decrease in 'Follow in' 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 'Seeking Benefit' incursion types
  - Bottom right localised heatmap of 'Seeking Benefit

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



Incursion Rate for per Length of TM [6.50 km / 4.04 miles]Project Incursion Rate:13.23 incursions/km or 21.29 incursions/milesBreakdown Rate:1.08 incidents/km or 1.73 incidents/miles

### MP-0212 - A1 Birtley to Coal House Widening - RDP



Tanfield Lea

Stanler

No Place High Handenhold Pelto

Whitehi

Chester-Le-Street

Vest Pelto

Night -

**Q1** 

(18:00

20:59)

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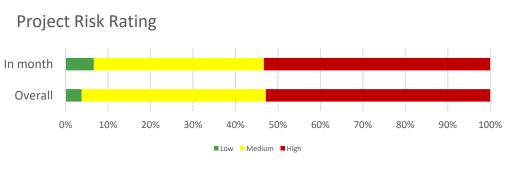
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### Directorate: Major Projects Region: Midlands

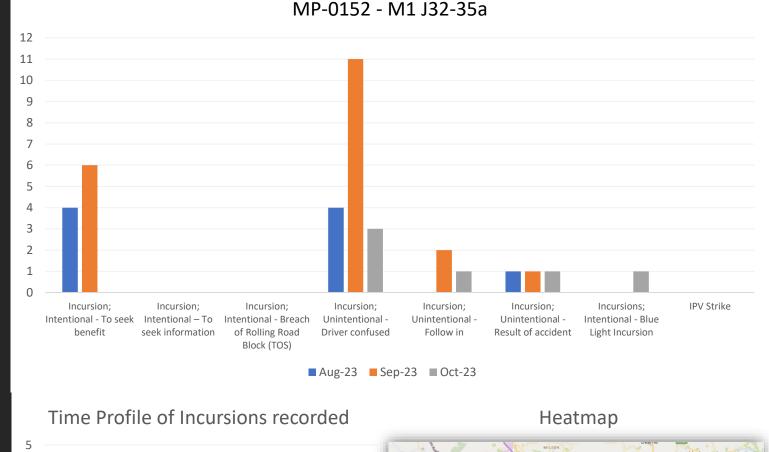
3 Month Incursion analysis

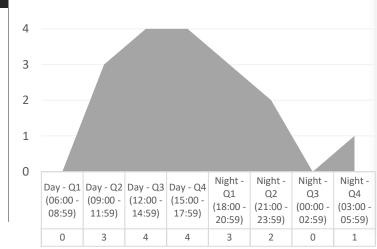
- MP-0152 M1 J32-35a a total of 6 incursions have been recorded; with a 100% increase in 'Blue Light' type incursions together with a no change from the previous month in Result of accident' 50% decrease in 'Follow in' 73% decrease in 'Driver confused' type incursions
  - Bottom left Project Risk Rating with 'In-month' rating being worse than the 'Overall' rating & incursion rate per length of TM
  - Bottom middle Time profile for 'all' incursion types
  - Bottom right localised heatmap of 'all' incursion types

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



Incursion rate per length of TM (Unknown)







#### Directorate: Major Projects Region: North West

3 Month Incursion analysis

- MP-0164 M6 J21A to 26 SMA a total of 6 incursions have been recorded; with a 300% increase in 'Driver confused' type incursions together with a 100% increase in 'Result of accident' no change from the previous month 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 'Seeking Benefit' incursion types

nks

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Day - Q1 Day - Q2 Day - Q3 Day - Q4

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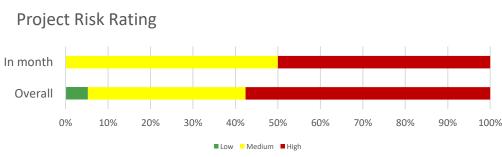
05:59)

0

1.5770

- Bottom right – localised heatmap of 'Seeking Benefit

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



Incursion Rate for per Length of TM [35.00 km / 21.75 miles] Project Incursion Rate: 5.23 incursions/km or 8.41 incursions/miles

Breakdown Rate: 1.63 incidents/km or 2.62 incidents/miles

#### MP-0164 - M6 J21A to 26 - SMA



Burtonwoo

Hollins Green

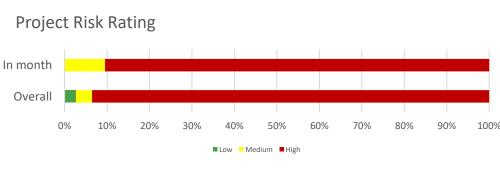
Lane End

### Directorate: Operations Region: South East

3 Month Incursion analysis

- DBFO M25 (Area 5) a total of 23 incursions have been recorded; with a 100% increase in 'IPV Strike' type incursions together with a 89% increase in 'Seeking Benefit' 33% increase in 'Driver confused' no change from the previous month in Blue Light' 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 'Seeking Benefit' incursion types
  - Bottom right localised heatmap of 'Seeking Benefit

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



Incursion rate per length of TM (Unknown)

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



Q4

(03:00 -

05:59)

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Q3

(00:00 -

02:59) 10

**Q1** 

(18:00

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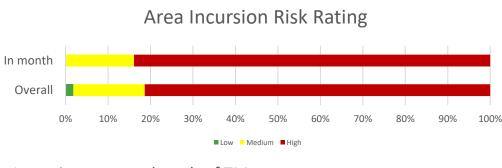
### Directorate: Operations Region: East

3 Month Incursion analysis

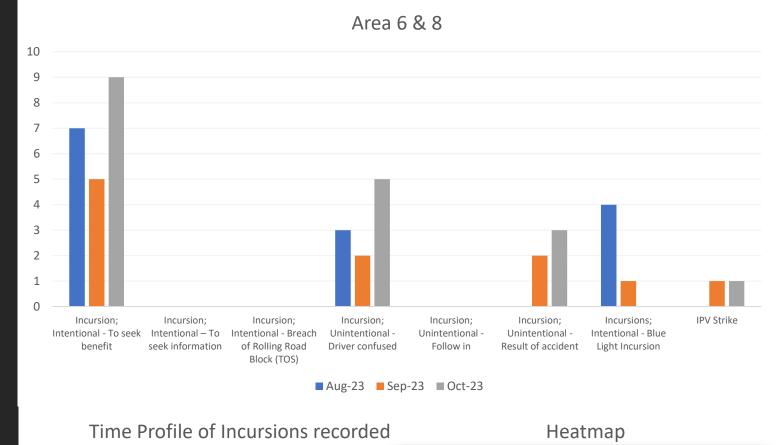
- Area 6 & 8 a total of 18 incursions have been recorded; with a 80% increase in 'Seeking Benefit' type incursions together with a 150% increase in 'Driver confused' 50% increase in 'Result of accident' no change from the previous month in IPV Strike' type incursions
  - Bottom left Area Incursion Risk 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

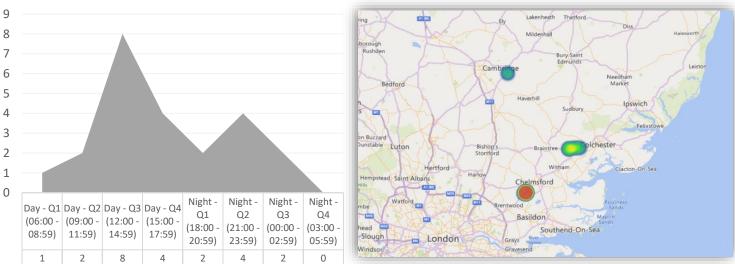
Type of Roadworks:	Not Populated / Lane Closures (mainline)
Type of TTM:	Not Populated / Hard shoulder closures

#### \* Excluding Breakdown type incursions



Incursion rate per length of TM (Unknown)





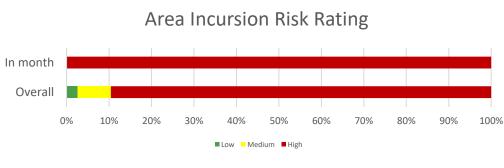
### Directorate: Operations Region: South East

3 Month Incursion analysis

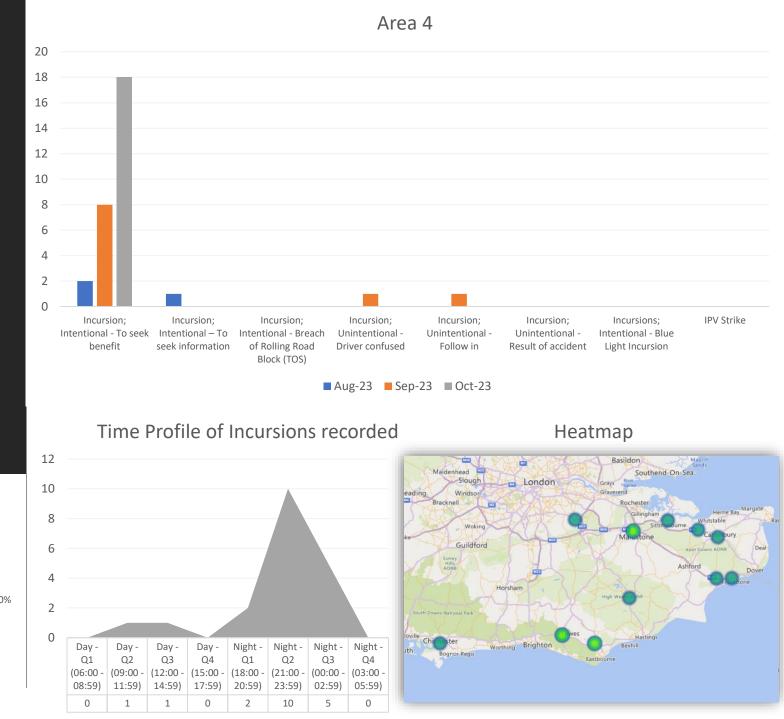
- Area 4 a total of 18 incursions have been recorded; with a 125% increase in 'Seeking Benefit' type incursions together with a type incursions
  - Bottom left Area Incursion Risk Rating with 'In-month' rating worse than 'Overall' rating
  - Bottom middle Time profile for 'all' incursion types recorded
  - Bottom right localised heatmap of 'all' incursion types recorded

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

#### \* Excluding Breakdown type incursions



#### Incursion rate per length of TM (Unknown)



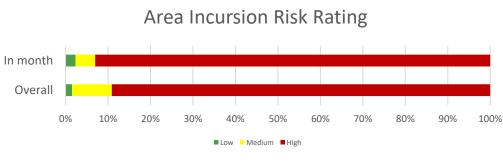
#### Directorate: Operations Region: South East

3 Month Incursion analysis

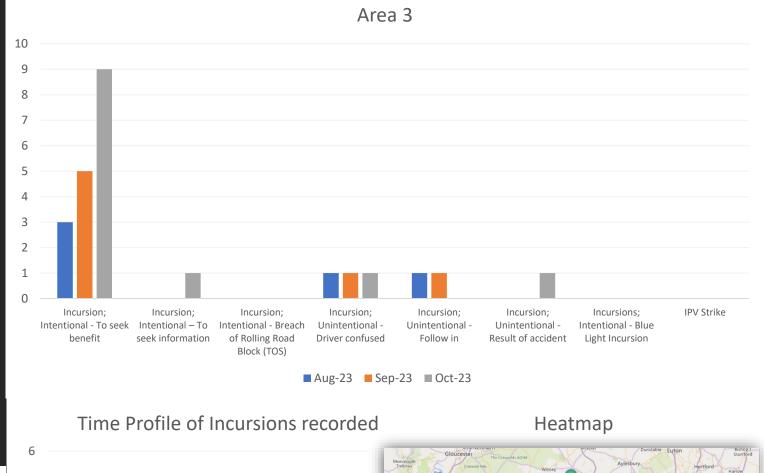
- Area 3 a total of 12 incursions have been recorded; with a 100% increase in 'Result of accident' type incursions together with a 80% increase in 'Seeking Benefit' 100% increase in 'To seek information' no change from the previous month in Driver confused' type incursion
  - Bottom left Area Incursion 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

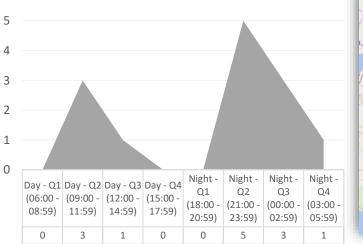
Type of Roadworks:	Not Populated / Lane Closures (mainline)
Type of TTM:	Not Populated / Hard shoulder closures

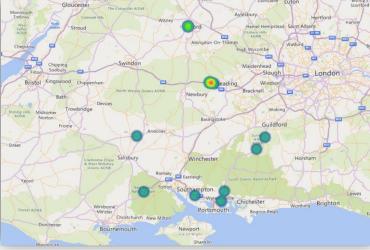
#### \* Excluding Breakdown type incursions



Incursion rate per length of TM (Unknown)







#### Directorate: Operations Region: North West

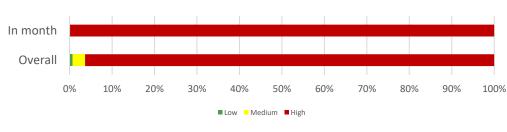
3 Month Incursion analysis

- AD M&R Ten a total of 9 incursions have been recorded; with an 800% increase in 'Seeking Benefit' type incursions together with a no change from the previous month in Result of accident' 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

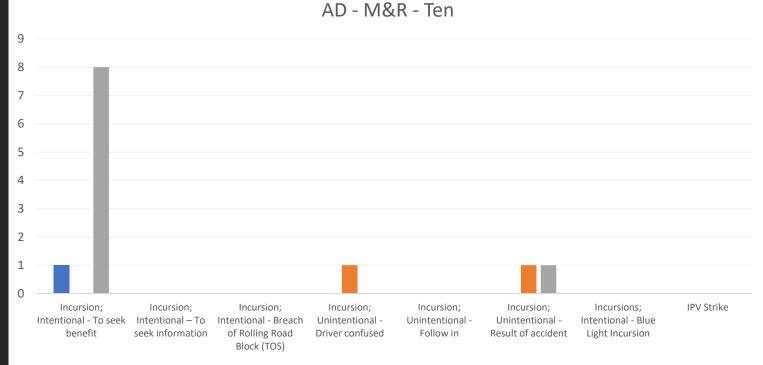
Type of Roadworks:	Not Populated / Lane Closures (mainline)
Type of TTM:	Not Populated / Hard shoulder closures

#### \* Excluding Breakdown type incursions

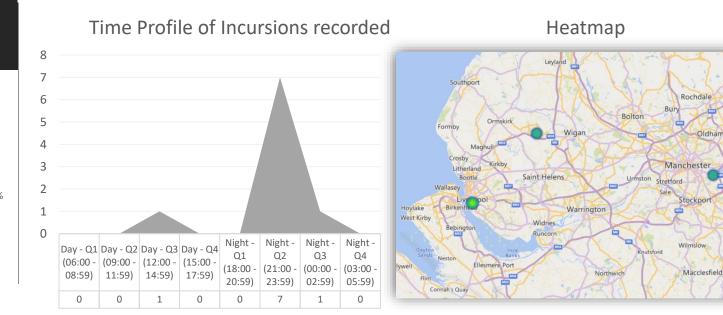




#### Incursion rate per length of TM (Unknown)

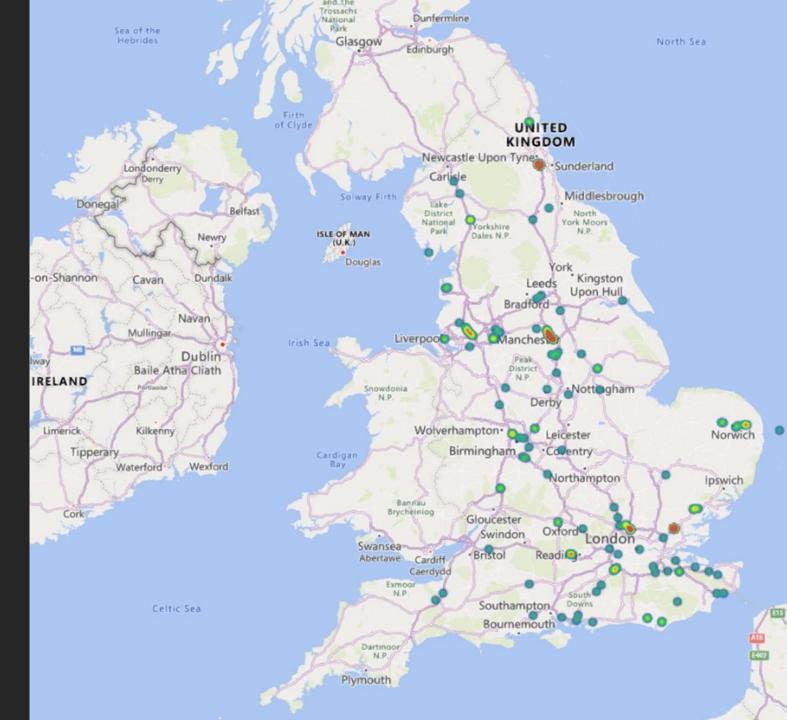






Heatmap of Incursions recorded in October 2023

"98% of all incursions were recorded with coordinates"



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

