

IPV & Incursion Working Group Report – December 2023

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Project Manager - Major Projects Customer Service and Stakeholder Division

Rev 0 – 05/01/2024

Data Source: HART [WD2]

Incursions Report - Headline

To date, the total number of incursions recorded since October 2017 is **14910**

Kind of Event	Directorate				
	Major Projects	Operations	Outstations & ROCs	NH Offices & Depots	Grand Total
Incursion; Intentional - To seek benefit	847	2109	598	59	3613
Incursion; Intentional – Because of breakdown	4239	405	145	3	4792
Incursion; Intentional – To seek information	59	89	29	5	182
Incursion; Intentional - Breach of Rolling Road Block (TOS)	4	24	873	8	909
Incursion; Unintentional - Driver confused	940	653	272	41	1906
Incursion; Unintentional - Follow in	162	196	16	3	377
Incursion; Unintentional - Result of accident	313	189	69	5	576
Incursions; Intentional - Blue Light Incursion	55	74	1	2	132
IPV Strike	18	60	9	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	7051	5313	2396	150	14910

Kind of Event	By Year (Jan – Dec)						
	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%)	2135

Incursions Report - Headline

147 Incursions were recorded for December 2023

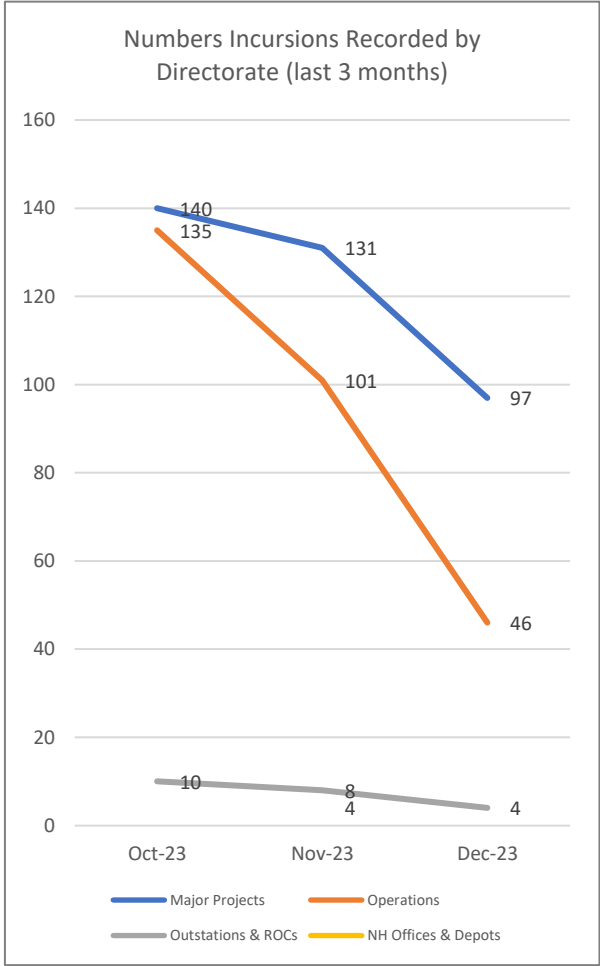
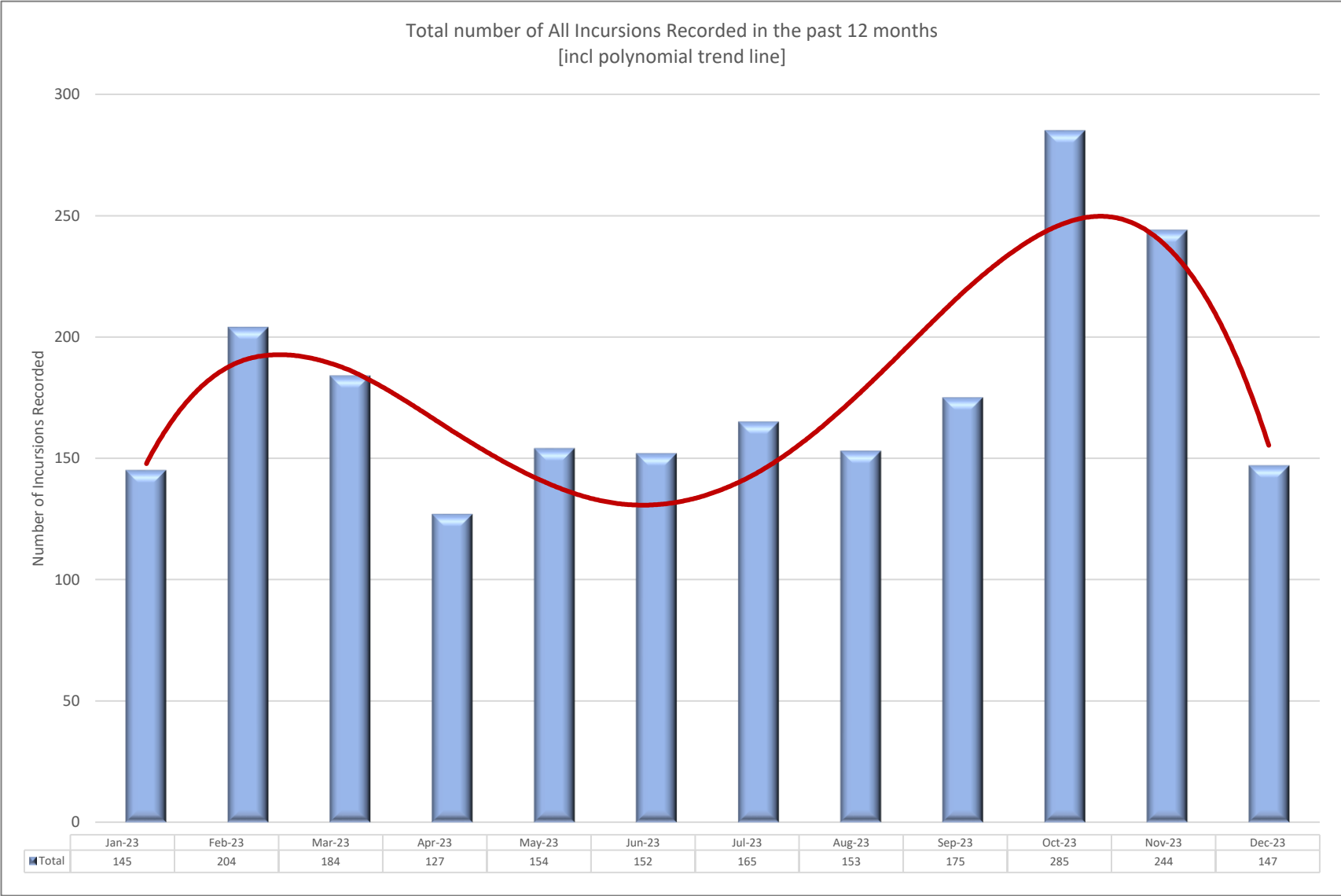
Kind of Event	Directorate				Grand Total
	Major Projects	Operations	Outstations & ROCs	NH Offices & Depots	
Incursion; Intentional - To seek benefit	9	30	3		42
Incursion; Intentional – Because of breakdown	41	3			44
Incursion; Intentional – To seek information					0
Incursion; Intentional - Breach of Rolling Road Block (TOS)			1		1
Incursion; Unintentional - Driver confused	28	3			31
Incursion; Unintentional - Follow in	5	2			7
Incursion; Unintentional - Result of accident	12	5			17
Incursions; Intentional - Blue Light Incursion	2	2			4
IPV Strike		1			1
Grand Total	97	46	4	0	147

Incursions Report - Headline

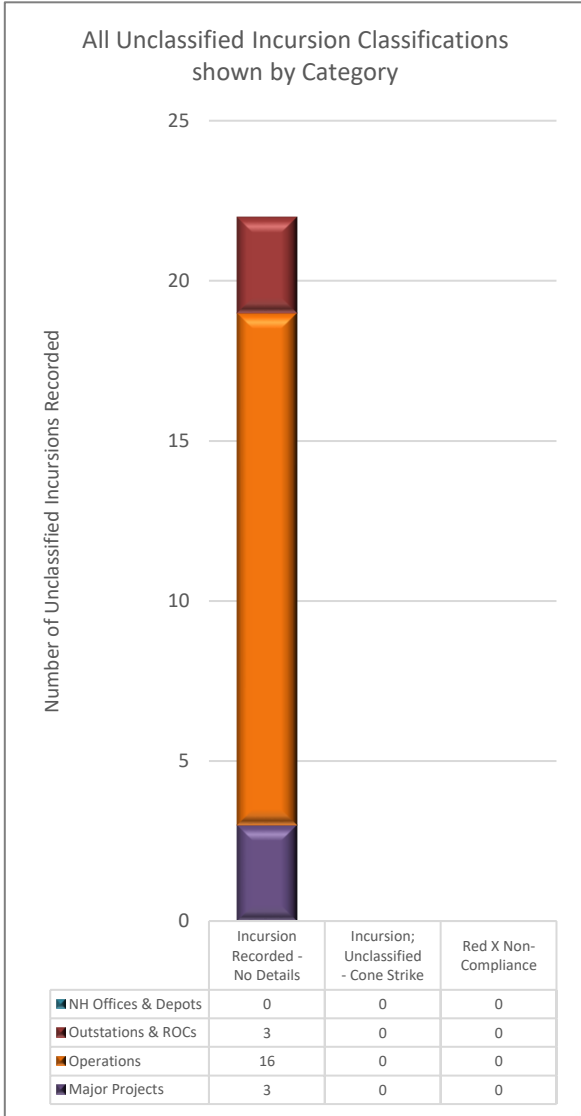
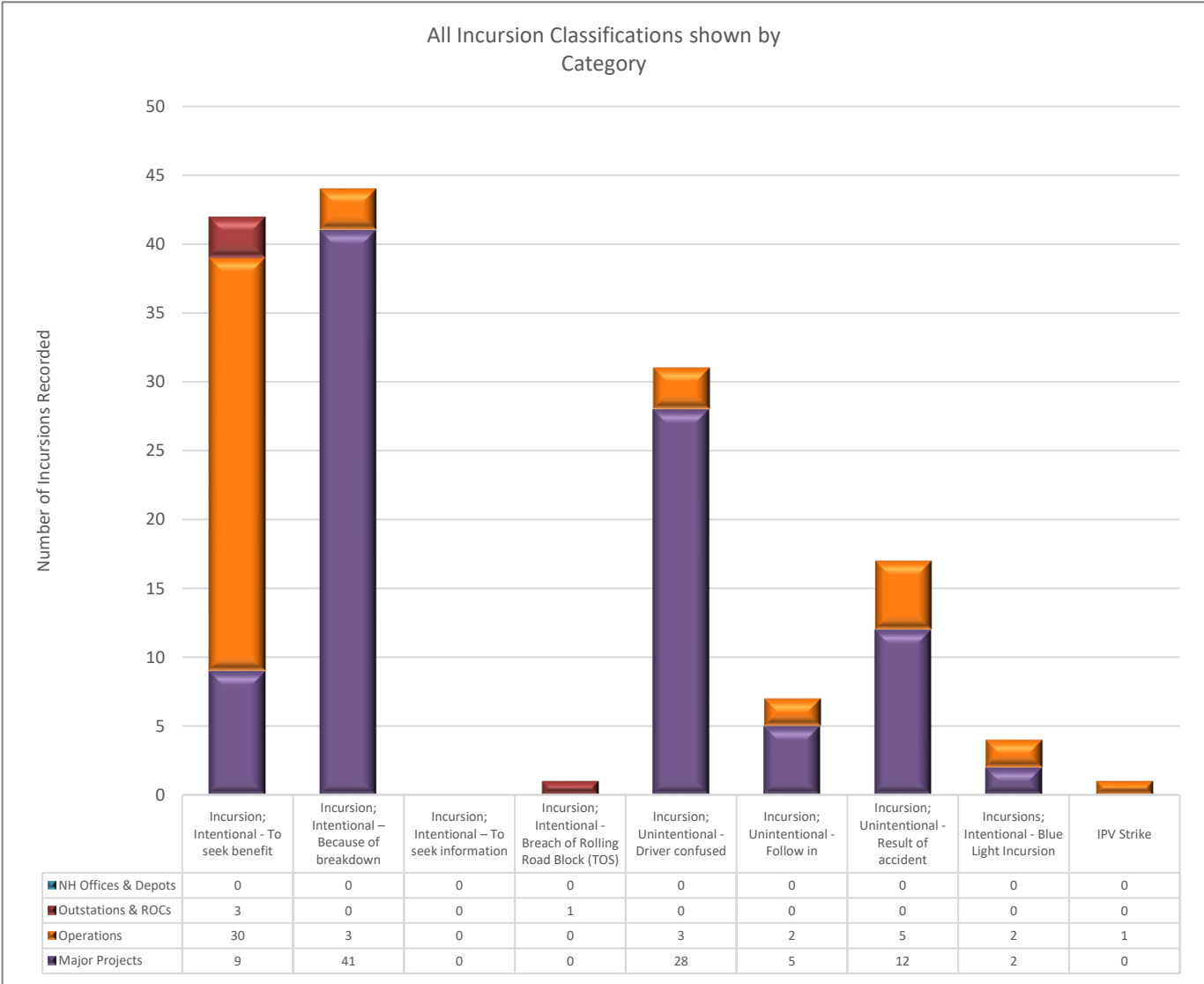
Table shows the average number of incursions recorded by directorate and type in the past 12-month period.

Incursion Category	Directorate			Comments
	Major Projects	Operations	Outstations & ROCs	
Incursion; Intentional - To seek benefit	15.42 (↓)	51.92 (↑)	4.25 (↑)	An increase in the av incursion rate for both Ops and from our Outstations / ROCs
Incursion; Intentional – To seek information	1.08 (=)	1.42 (=)	0.00 (=)	No real change this month; overall figures have been consistent over the past 12 months
Incursion; Intentional – Because of breakdown	32.67 (↑)	6.83 (↑)	0.67 (↑)	Increase in the av incursions rates seen across all directorates
Incursion; Intentional - Breach of Rolling Road Block (TOS)	0.00 (=)	0.17 (↑)	0.83 (↑)	An increase the in av incursion rate seen in both Ops and from our Outstations / ROCs
Incursion; Unintentional - Driver confused	17.83 (↑)	14.75 (↑)	1.50 (↓)	Increase in both the av incursion rate for both MP and Ops has been seen this month; generally consistent
Incursion; Unintentional - Follow in	3.42 (↑)	5.00 (↑)	0.00 (=)	Increase in both the av incursion rate for both MP and Ops has been seen this month; generally consistent
Incursion; Unintentional - Result of accident	6.42 (↑)	3.75 (↑)	0.25 (↓)	Increase in both the av incursion rate for both MP and Ops has been seen this month; generally consistent
IPV Strike	0.17 (↓)	1.50 (↑)	0.08 (↓)	A slight increase the av number of IPV strikes from the previous month; but generally falling
Incursions; Intentional – Blue Light Incursion	2.75 (=)	4.33 (↑)	0.08 (=)	A slight increase the av number BLI from the previous month, but data suggests that the av number is falling

Incursions Report – All Incursions



Incursions Report – All Incursions during December 23



Top incursions categories for this month (across all directorates):

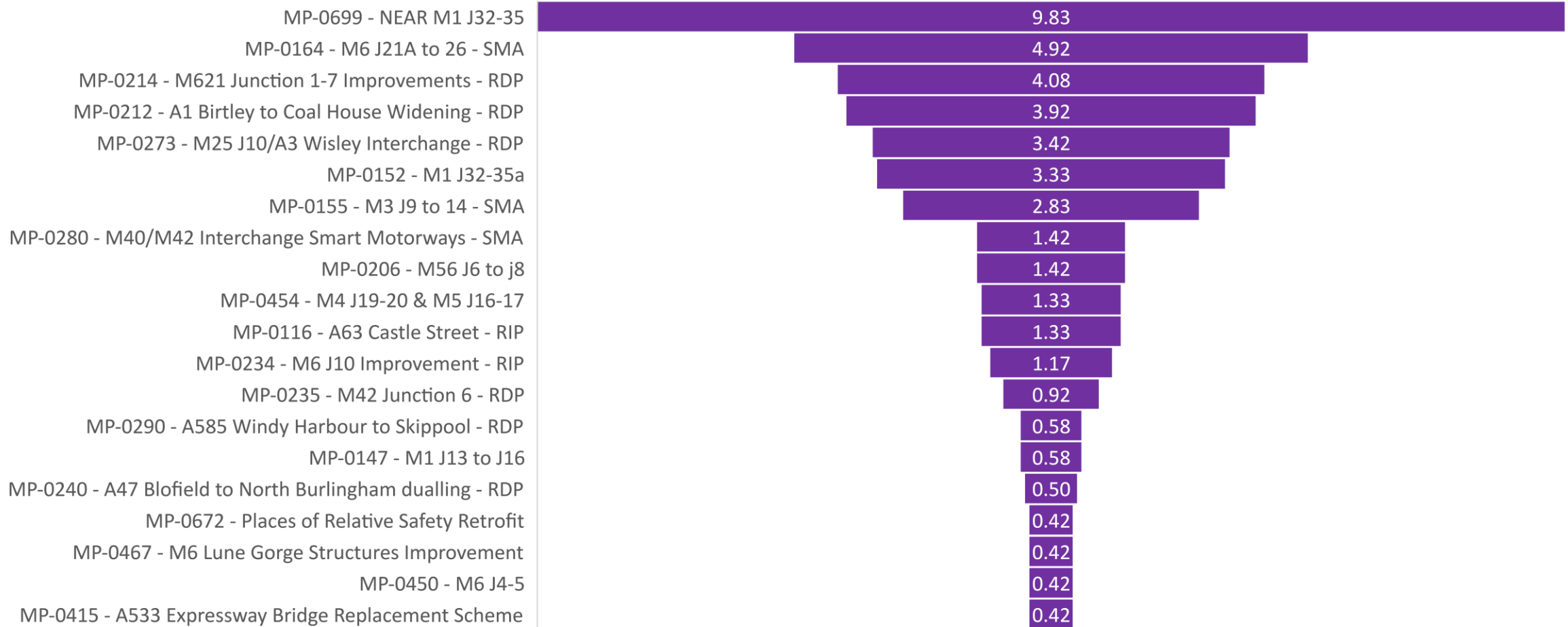
1. Incursion; Intentional - To seek benefit [42]
2. Incursion; Unintentional - Driver confused [31]
3. Incursion; Unintentional - Result of accident [17]
4. Incursion; Unintentional - Follow in [7]
5. Incursions; Intentional - Blue Light Incursion [4]
6. Incursion; Intentional - Breach of Rolling Road Block (TOS) [1]
7. IPV Strike [1]
8. Incursion; Intentional – To seek information [0]

Note - Incursion; Intentional – Because of breakdown [44]



Incursions Report for Major Projects

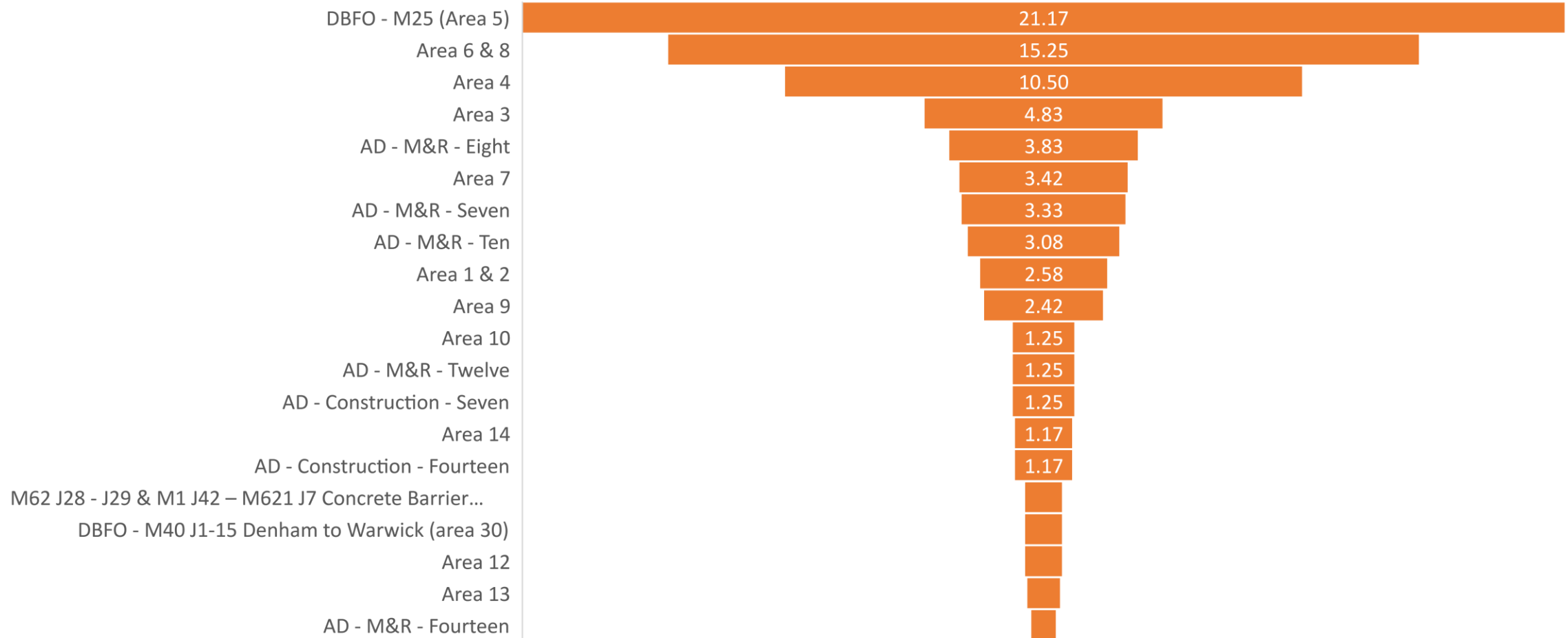
12 month rolling average of the number of all 'Incursions per Month'*



- Excluding incursions as a result of breakdown
- Duplicate scheme names are as a result of the change from Airsweb to HART

Incursions Report for Operations Directorate

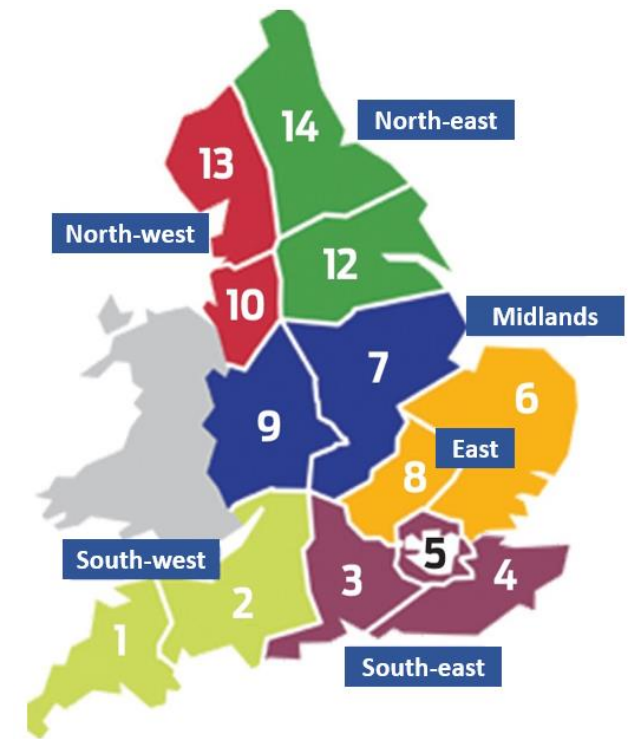
12 month rolling average of the number of all 'Incursions per Month'*



* Excluding incursions as a result of breakdown

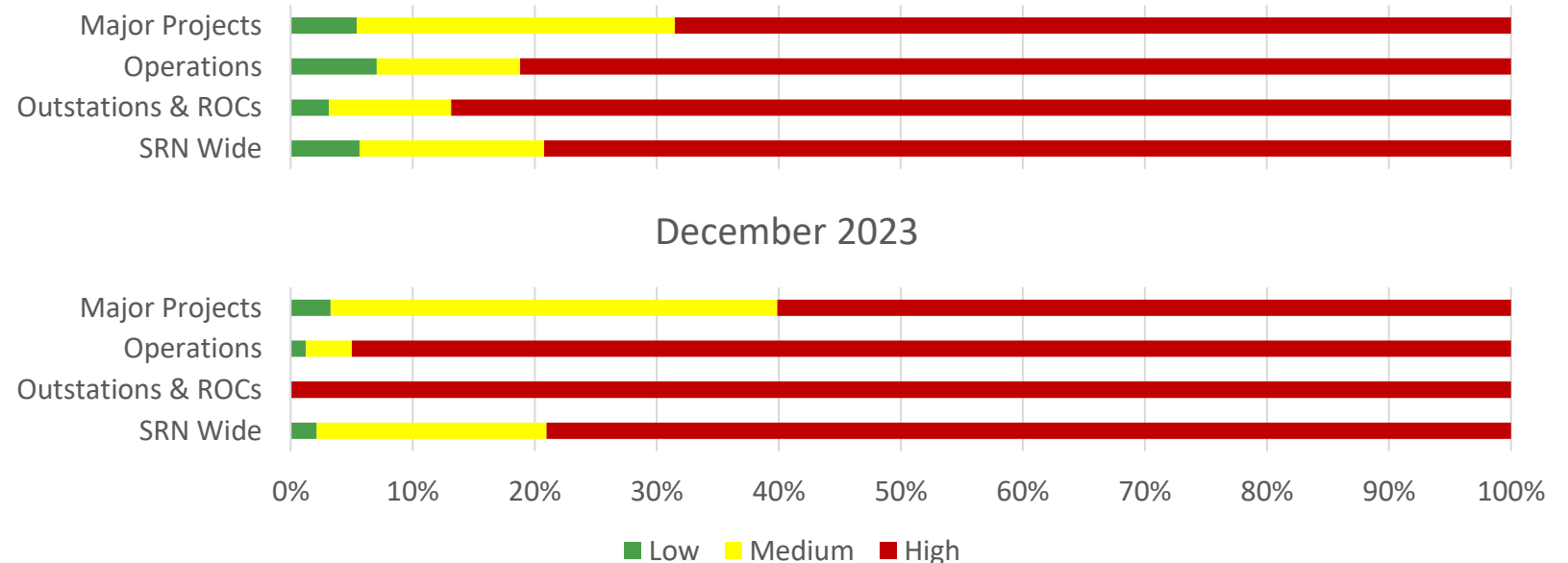
Incursions Report by Region & Risk

Rolling 6 Month totals of All Incursion <i>as recorded by Regions & ranked in order</i>	Number of Incursions		Total
	Major Projects	Operations	
Yorkshire & North East	335	28	363
South East	47	226	273
Midlands	135	73	208
East	9	137	146
North West	60	36	96
South West	11	23	34

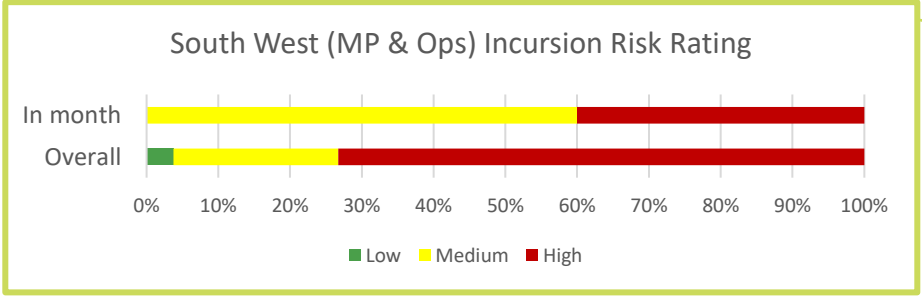
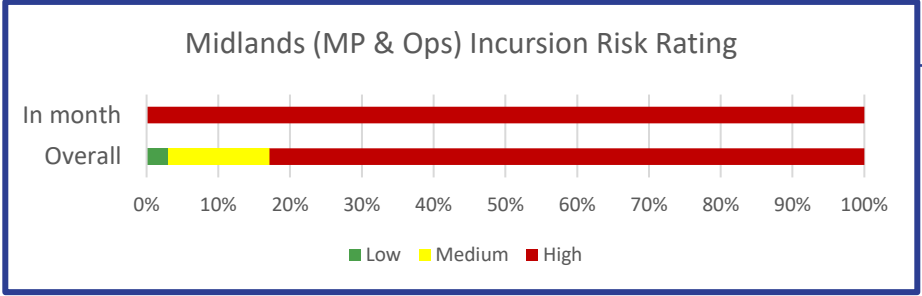
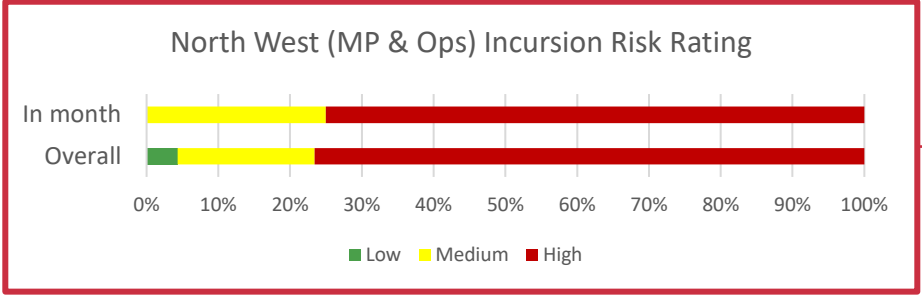
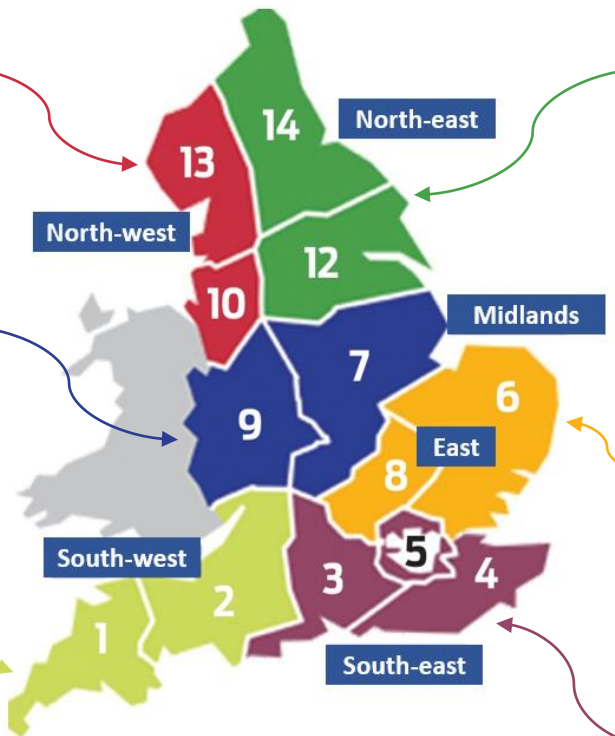
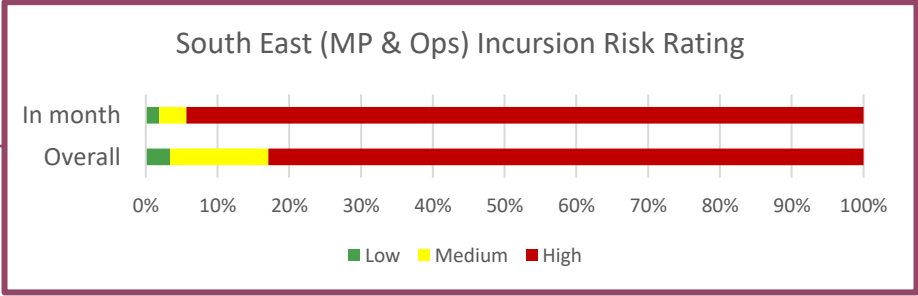
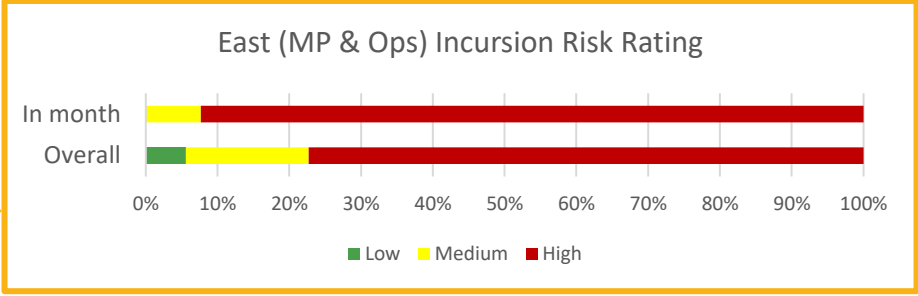
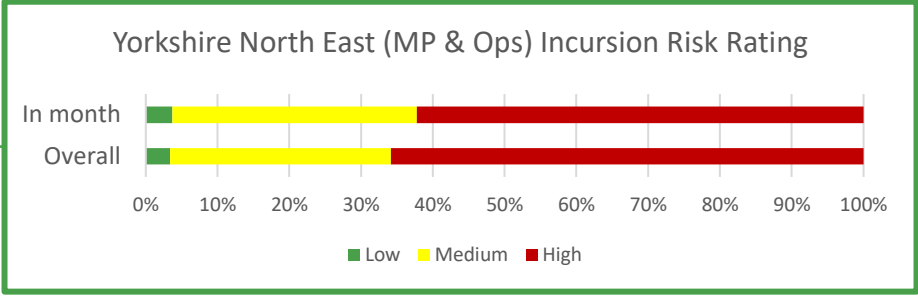
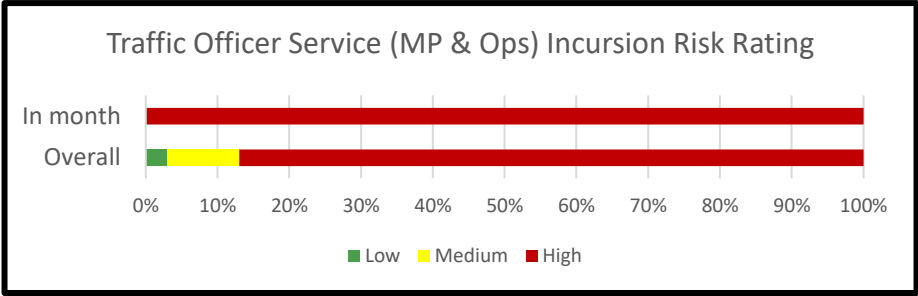


All Incursions (from 2017 to current)

Incursion Risk Ratings for all incursions recorded and in month

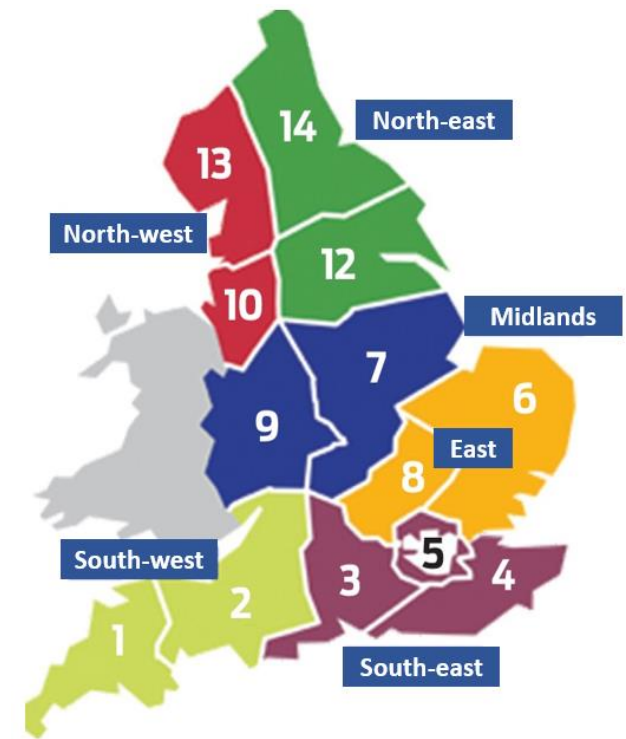


Incursions Report by Region & Risk



Incursions Report by Region & Category

Rolling 6 Month totals of All Incursion <i>as recorded by Regions & ranked in order</i>	Number of Incursions		Total
	Major Projects	Operations	
Yorkshire & North East	335	28	363
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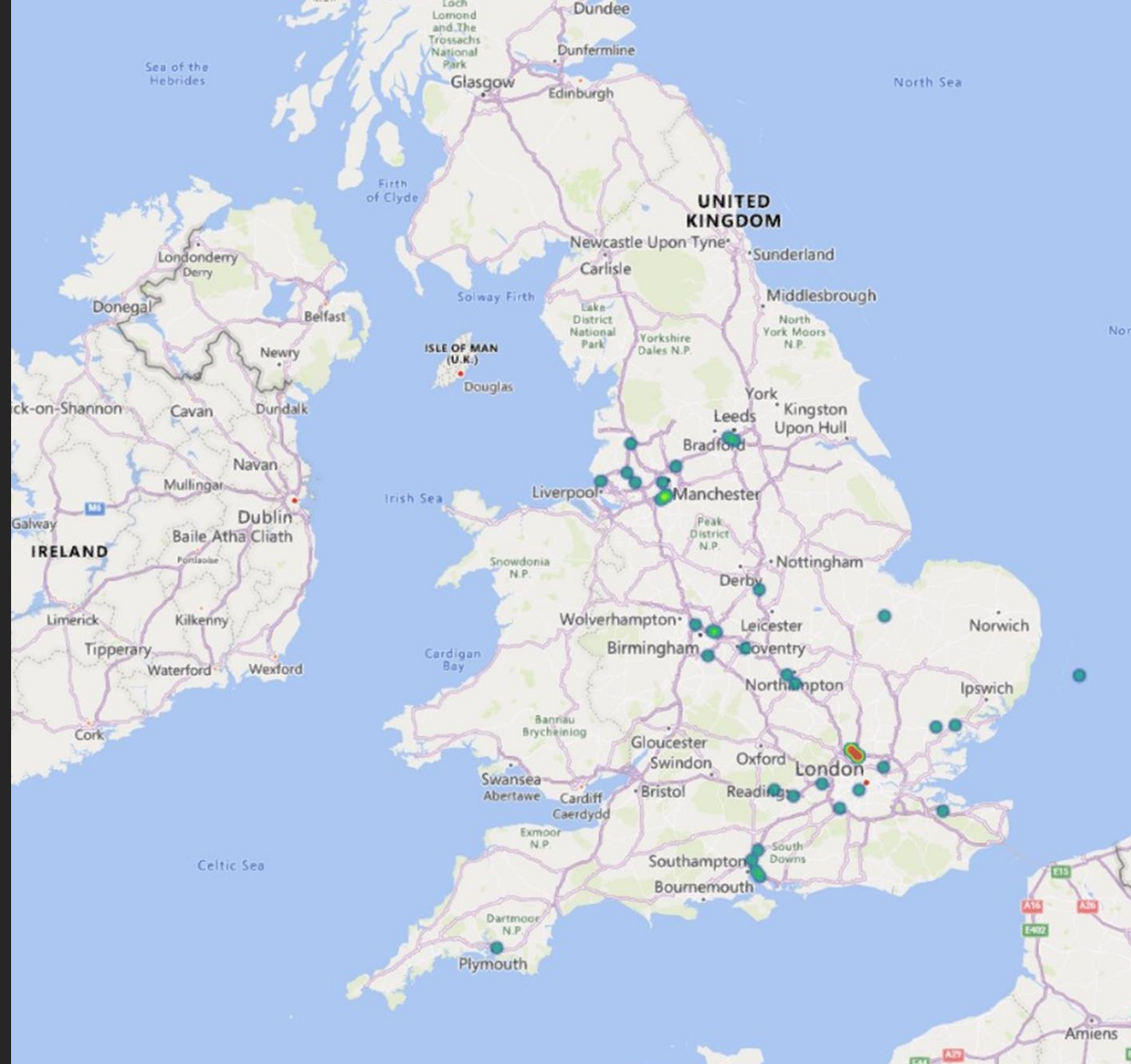
In Month Incursion Figures by Region and by Incursion Type	Incursion Categories																		Totals			
	Seek Benefit		Seek Information		Breach of Rolling Roadblock (TOS)		Driver confused		Follow-In		Result of accident		IPV Strike		Blue Light Incursion		Because of Breakdown					
	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops	MP	Ops
Yorkshire & North East	5	2	0	0	0	0	23	0	5	0	12	2	0	0	0	0	36	0	81	4	85	
South East	1	19	0	0	0	0	2	0	0	2	0	1	0	1	1	2	0	3	4	28	32	
Midlands	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	0	6	3	9	
East	1	3	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	1	6	7	
North West	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	3	3	6	
South West	0	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2	2	4	

Blue Light Incursions Report - Headline

132 Blue Light Incursions have been recorded since February 2022 with **4** being recorded in December 2023 (Edited Record)

Record ID	Date	Time	Directorate	Region	Programme	Site / Project	Type of Closure	Type of TTM	Location	Specific Location	Details of actual job being done	Describe the facts of what happened	Immediate Actions Taken
148193	05/12/2023	23:57:00	Operations	South East - Operations	South East - DBFO	DBFO - M25 (Area 5)	Not populated	Not populated	Not populated	Not populated	Week 49	Police car drove through closure at high speed	Flashed lights and waved arms at them to slow down as I have crew working 400 mtrs further along in the closure
148227	06/12/2023	22:00:00	Operations	South East - Operations	South East - DBFO	DBFO - M25 (Area 5)	Not populated	Not populated	Not populated	Not populated	Week 49	Police car and member of the public car stopped in HS at the site access point	TMF went to investigate and talk to the police
148236	07/12/2023	10:40:00	Major Projects	South East - Major Projects	South East - RIP	MP-0272 - M2 J5 Improvement Scheme - RDP	Lane Closure - Mainline	Not populated	Within works area / safety zone (adjacent to a Live carriageway)	Not populated	Tarmacking and earthworks	Police car drove with its Blue Lights on and Sirens, it drove through the works area and left at the exit onto the A249 SB.	Tm was inspected Project SHE Advisor was informed and checked on the TM also and ensured the workers were all ok in the area.
148569	08/12/2023	00:15:00	Major Projects	Midlands - Major Projects	Midlands - SMP	MP-0920 - NEAR M1 J19-16	Not populated	Not populated	Carriageway B	M1 J18 132/6 - 127/6	Topo surveys, NRTS pegging and marking and boreholes.	Ambulance blue light incursion at 12:15 entered the closure. Not travelling at high speed - approximately 25mph. Lane 1-3 closed with live traffic in LBS4. No evasive action was taken.	Not Populated

Heatmap of all Blue Light Incursions (BLI) recorded

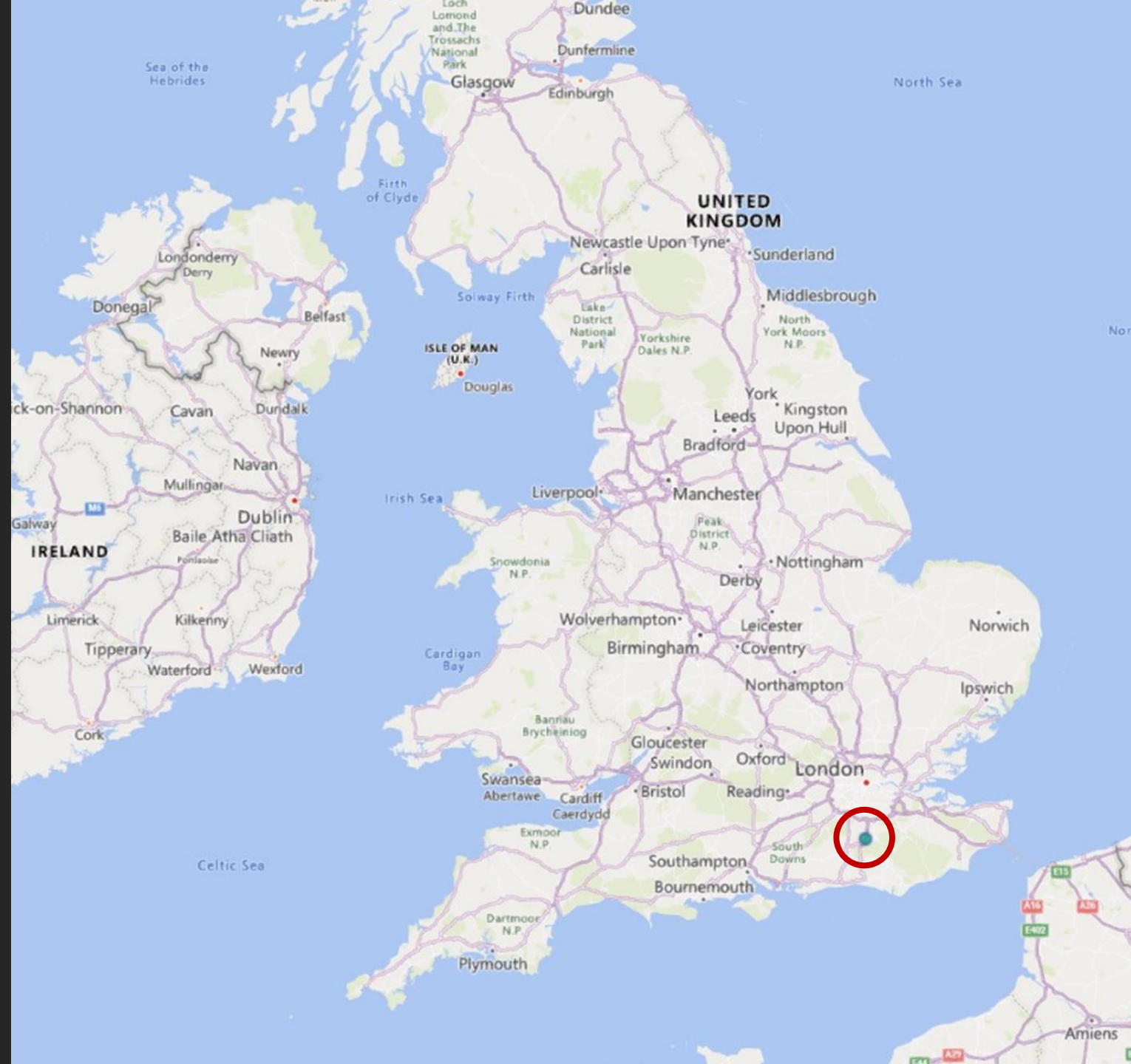


IPV Strike Report - Headline

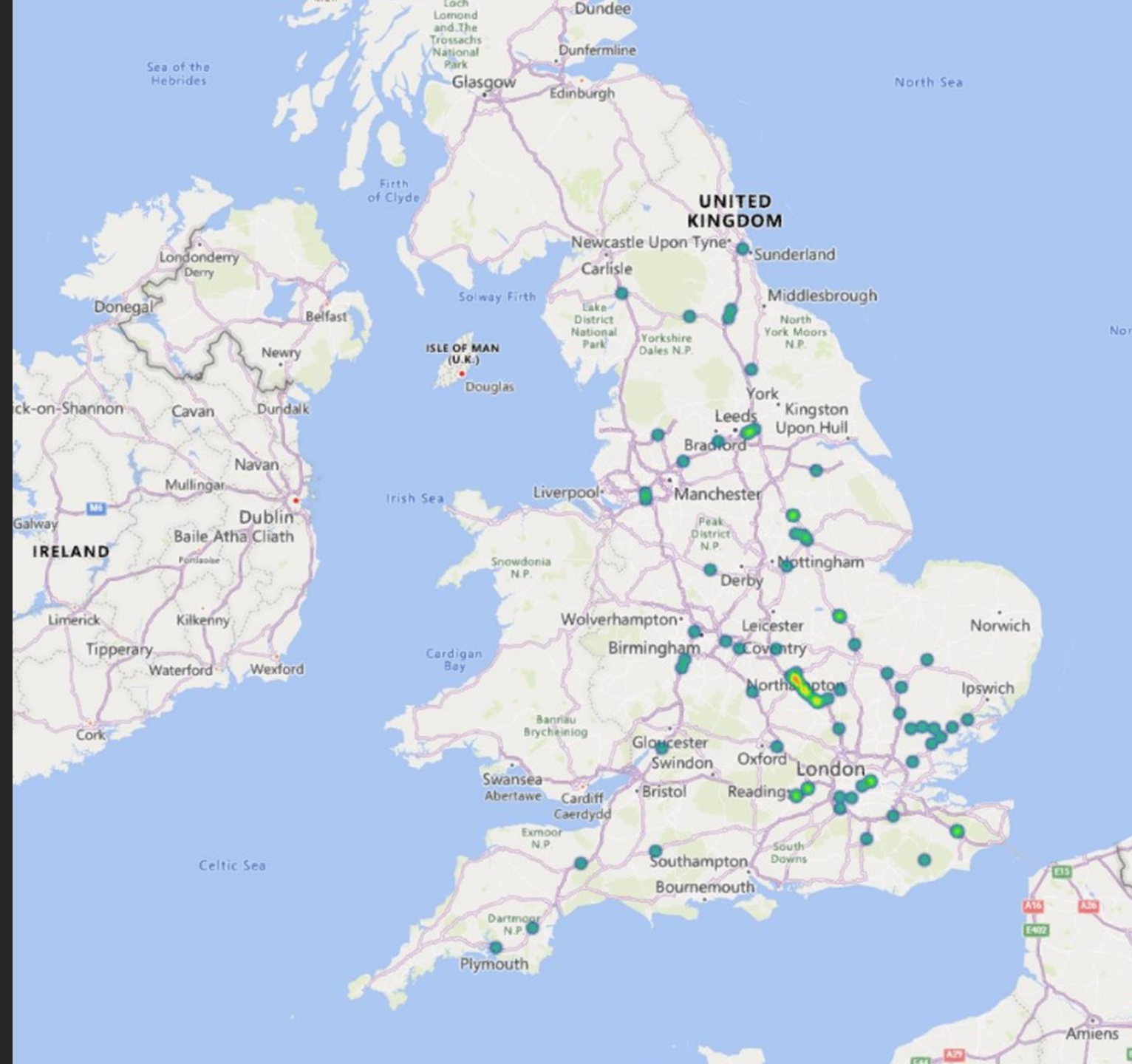
87 IPV strikes have been recorded since December 2019 with **1** being recorded in December 2023 (Edited Record)

Record ID	Date	Time	Directorate	Region	Programme	Site / Project	Type of Closure	Type of TTM	Location	Specific Location	Details of actual job being done	Describe the facts of what happened	Immediate Actions Taken
148254	07/12/2023	20:05:00	Operations	South East - Operations	South East - Area Contracts	Area 4	Lane Closure - Mainline	Not populated	Not populated	Not populated	Traffic Management installing back to back closure	IPV installing back to back closure for barrier works when struck by MOP vehicle.	Not Populated

Heatmap of IPV Strikes recorded during December 23



Heatmap of all IPV Strikes recorded



Incursions Report

Directorate: Major Projects

Region: Yorkshire & North East

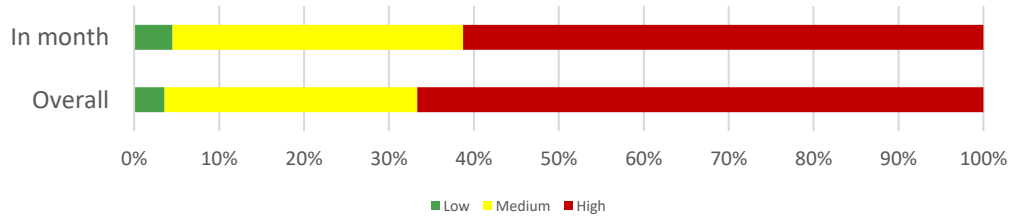
3 Month Incursion analysis

- MP-0699 - NEAR M1 J32-35 a total of 41 incursions have been recorded; with a 150% increase in 'Follow in' type incursions together with a 33% increase in 'Result of accident' no change from the previous month in 'Driver confused' incursions, with a 69% decrease 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 '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)

Project Risk Rating

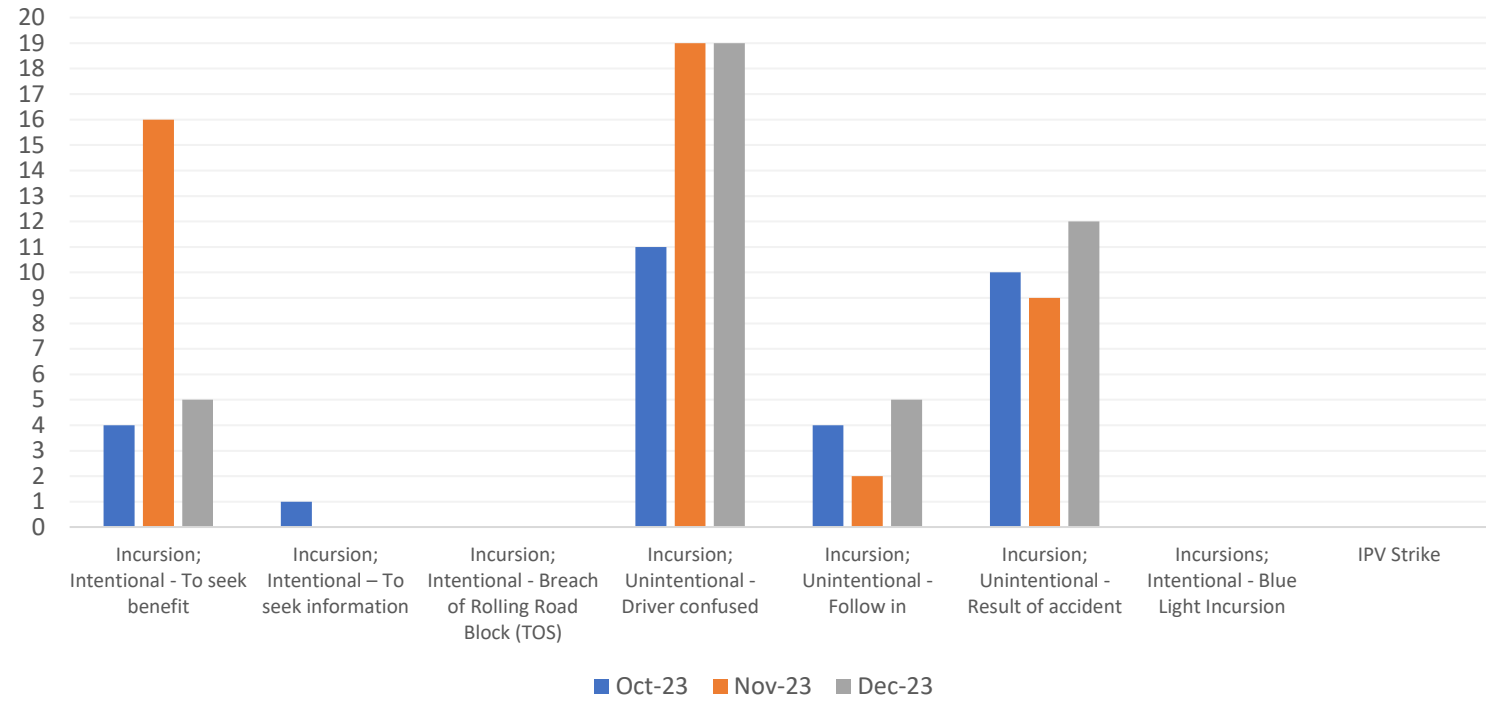


Incursion rate per length of TM (Unknown)

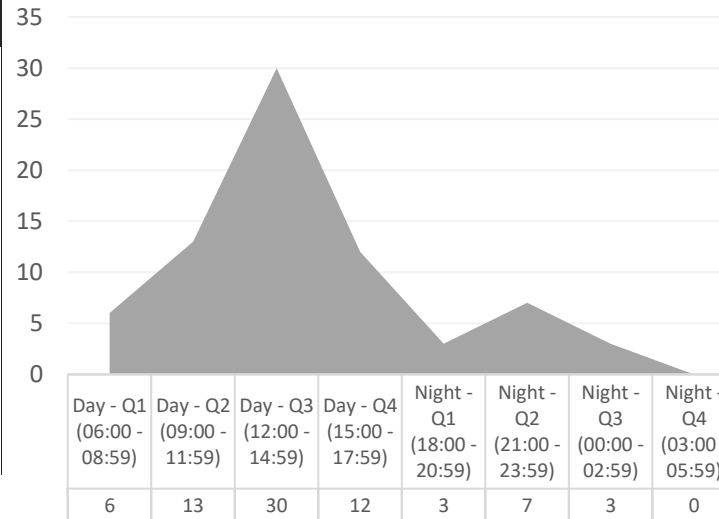
Project Incursion Rate: Length of TM data not available

Breakdown Rate: Length of TM data not available

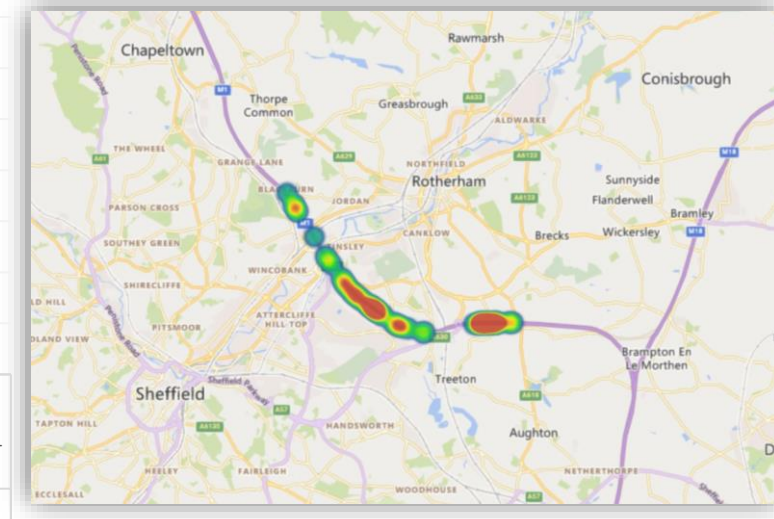
MP-0699 - NEAR M1 J32-35



Time Profile of Incursions recorded



Heatmap



Incursions Report

Directorate: Operations

Region: South East

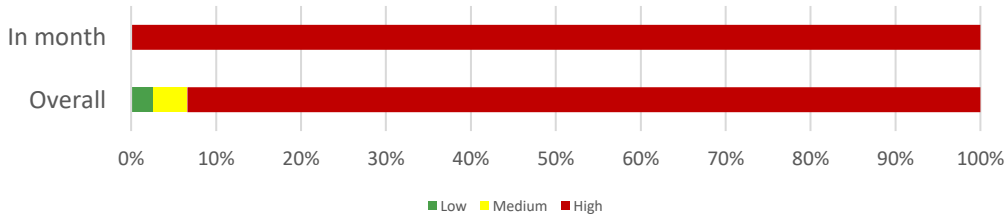
3 Month Incursion analysis

- DBFO - M25 (Area 5) a total of 12 incursions have been recorded; with a 67% increase in 'Seeking Benefit' type incursions together with a 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 & links closures)

Project Risk Rating

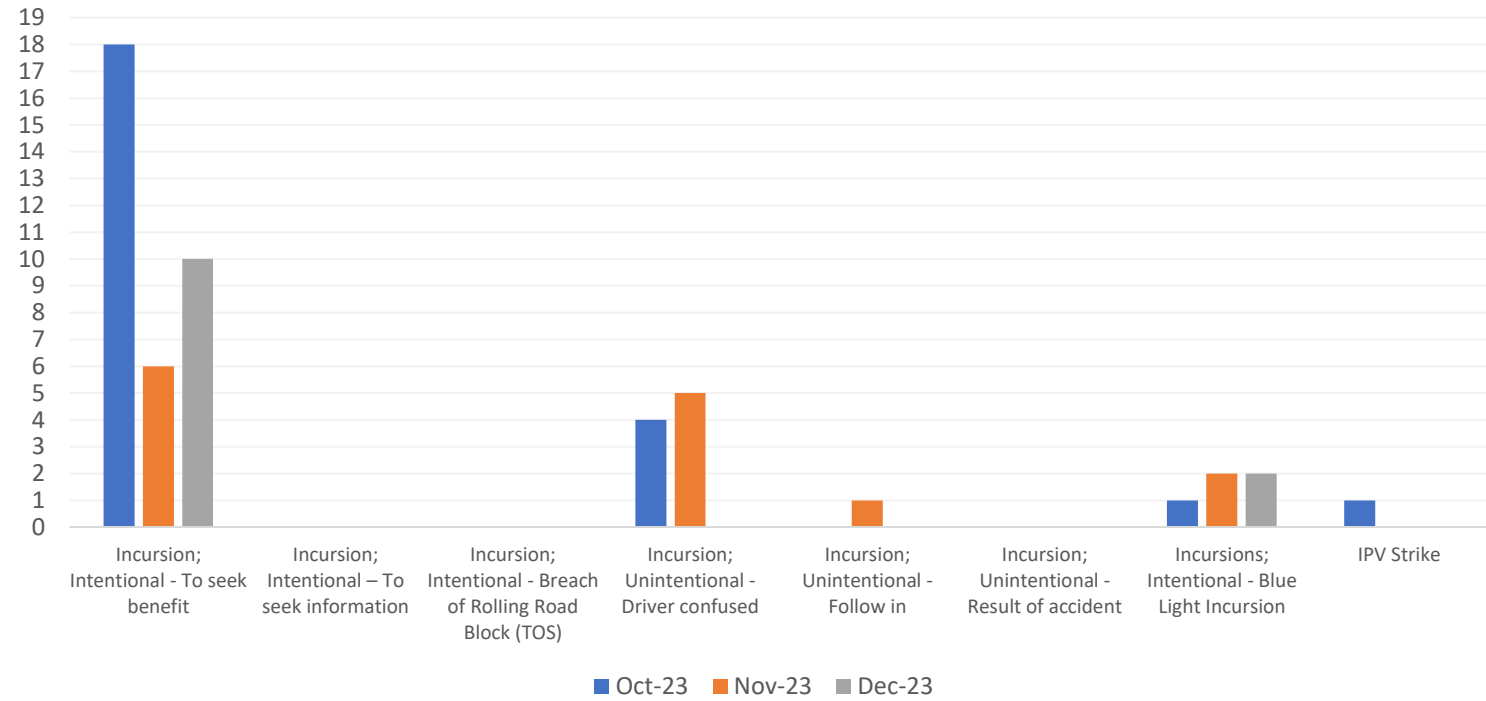


Incursion rate per length of TM (Unknown)

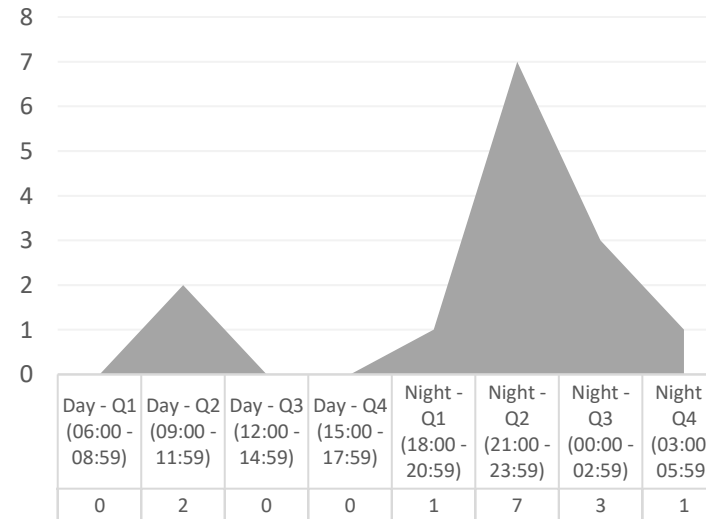
Project Incursion Rate: Length of TM data not available

Breakdown Rate: Length of TM data not available

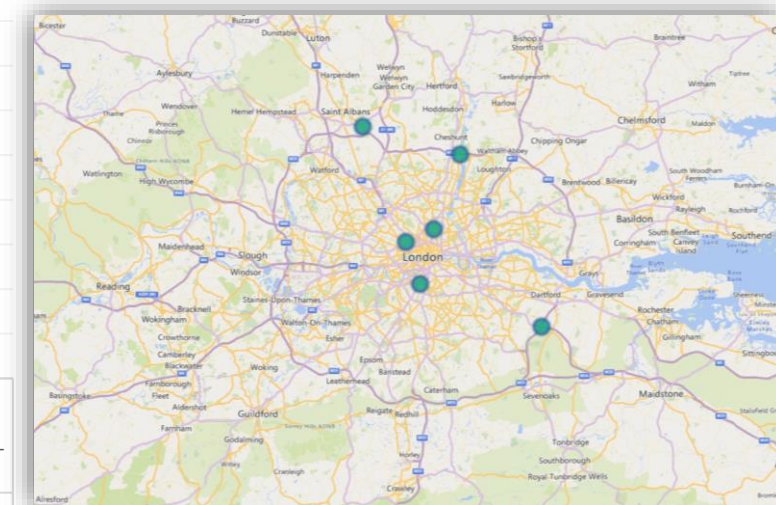
DBFO – M25 (Area 5)



Time Profile of Incursions recorded



Heatmap



Incursions Report

Directorate: Operations

Region: South East

3 Month Incursion analysis

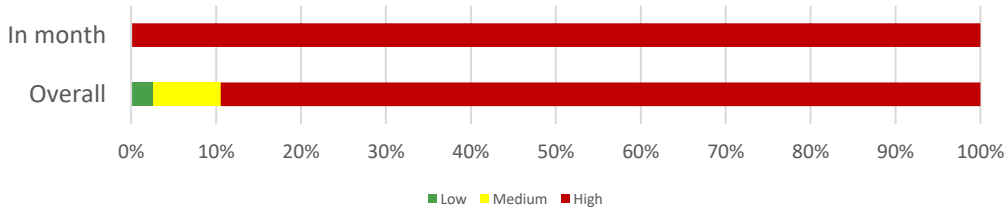
- Area 4 a total of 18 incursions have been recorded; with a 125% increase in 'Seeking Benefit' type incursions together with a type incursions
- Bottom left – Area Incursion Risk Rating with 'In-month' rating worse than 'Overall' rating
- Bottom middle – Time profile for 'all' incursion types recorded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

Area Incursion Risk Rating

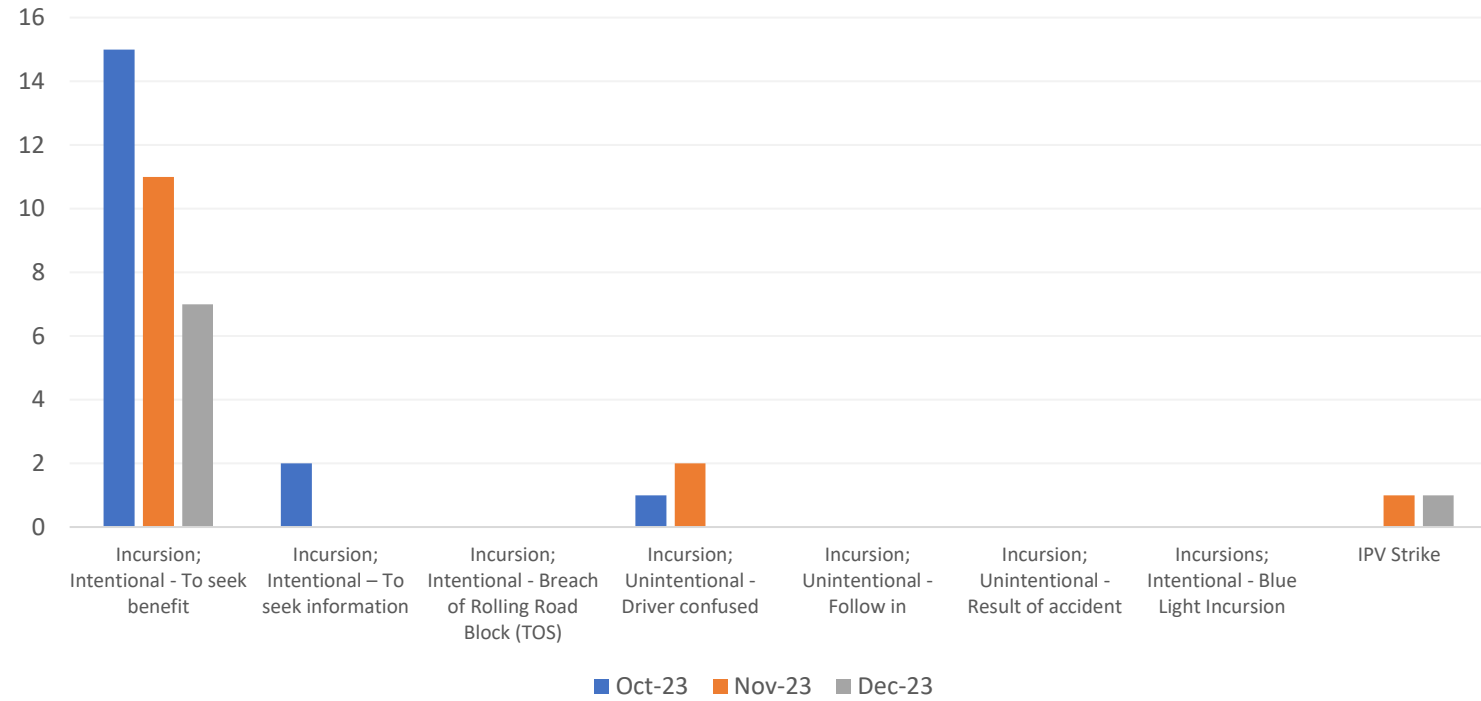


Incursion rate per length of TM (Unknown)

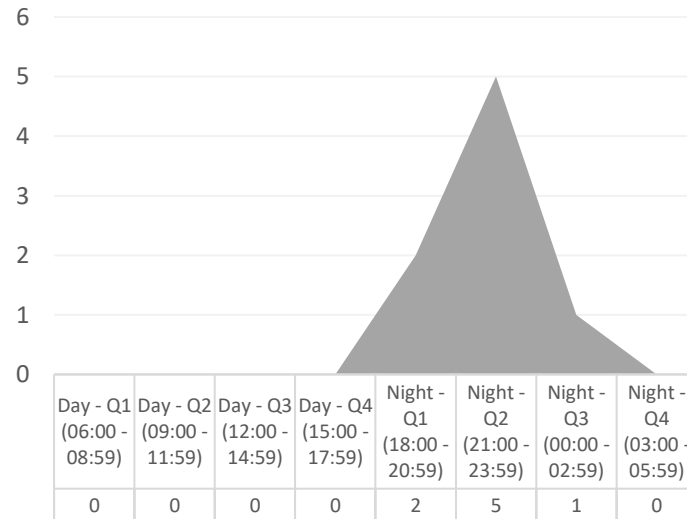
Project Incursion Rate: Length of TM data not available

Breakdown Rate: Length of TM data not available

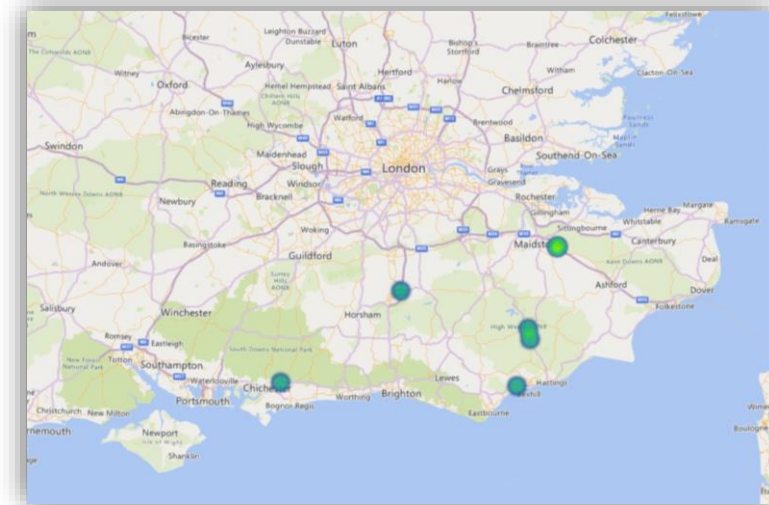
Area 4



Time Profile of Incursions recorded



Heatmap



Incursions Report

Directorate: Operations

Region: South East

3 Month Incursion analysis

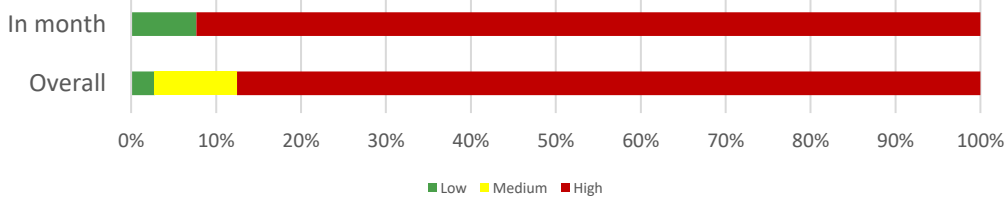
- Area 3 a total of 4 incursions have been recorded; with a 100% increase in 'Result of accident' type incursions together with a 50% decrease in 'Follow in' 33% decrease in 'Seeking Benefit' type incursions
- Bottom left – Area Incursion Risk Rating with 'In-month' rating being worse than the 'Overall' rating
- Bottom middle – Time profile for 'all' incursion types
- Bottom right – localised heatmap 'all' incursion types

Type of Roadworks: Not Populated / Lane Closures (mainline)

Type of TTM: Not Populated / Hard shoulder closures

* Excluding Breakdown type incursions

Area Incursion Risk Rating

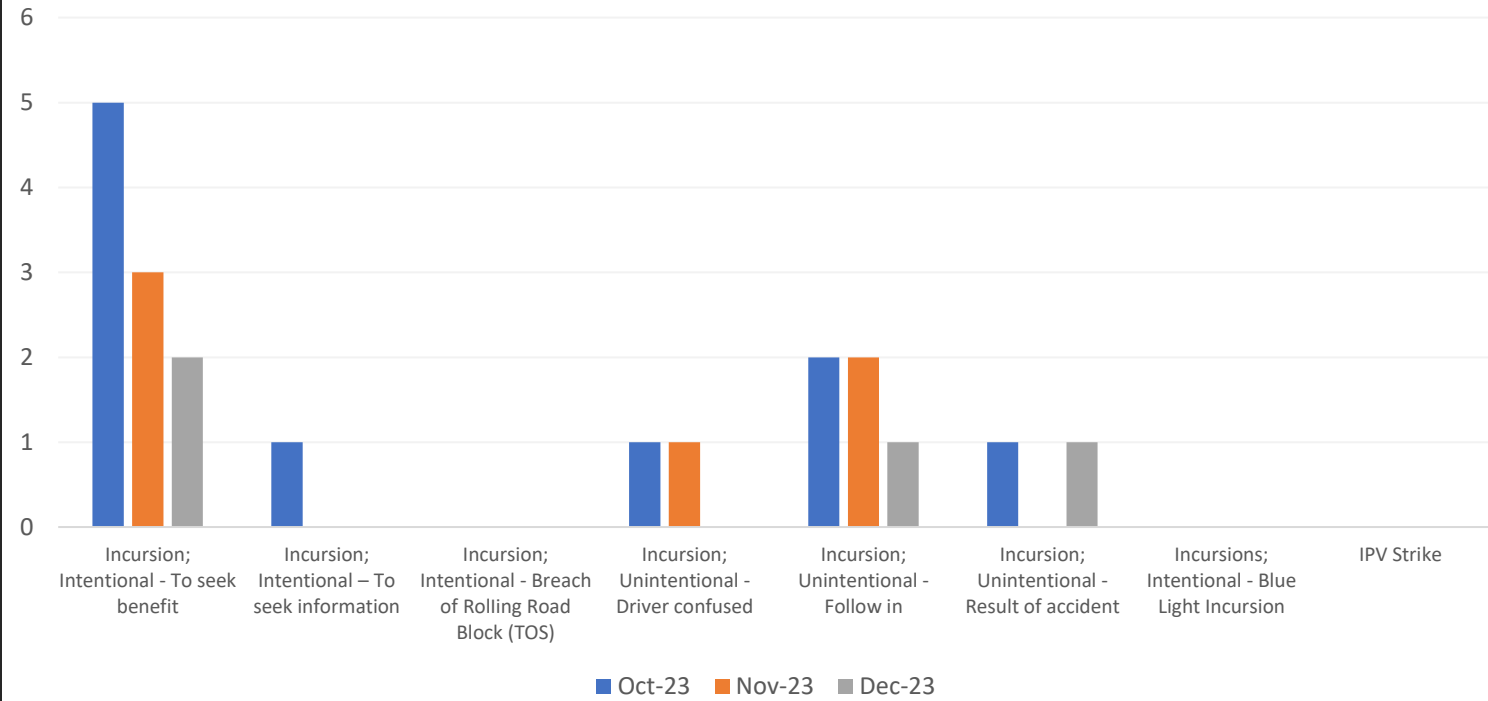


Incursion rate per length of TM (Unknown)

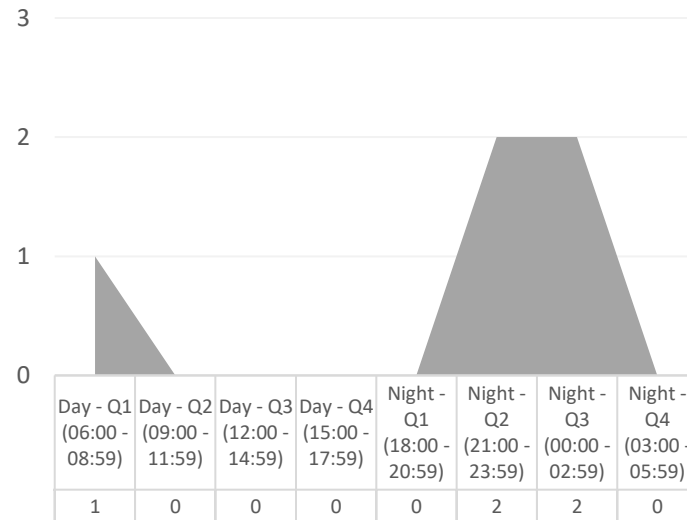
Project Incursion Rate: Length of TM data not available

Breakdown Rate: Length of TM data not available

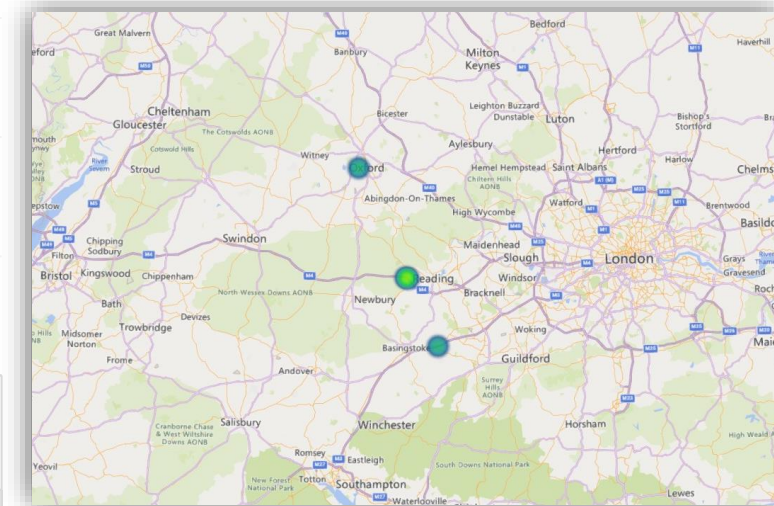
Area 3



Time Profile of Incursions recorded



Heatmap



Incursions Report

Directorate: Operations

Region: East

3 Month Incursion analysis

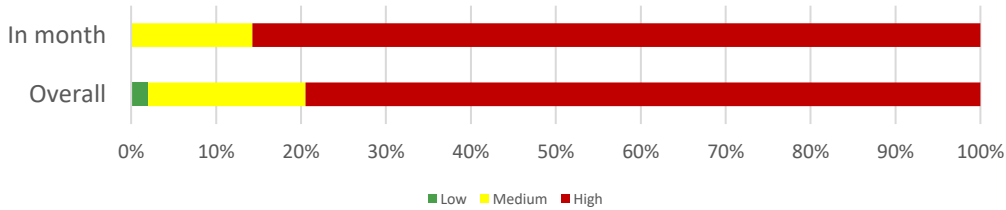
- AD - M&R - Eight a total of 4 incursions have been recorded; with a type incursions together with a 25% decrease in 'Seeking Benefit' incursions, with a 67% decrease in 'Driver confused' type incursions
- Bottom left – Area Incursion Risk Rating with 'In-month' rating worse than 'Overall' rating
- Bottom middle – Time profile for 'all' incursion types recorded
- Bottom right – localised heatmap of 'all' incursion types recorded

Type of Roadworks: Not Populated / Lane Closures (mainline)

Type of TTM: Not Populated / Hard shoulder closures

* Excluding Breakdown type incursions

Area Incursion Risk Rating

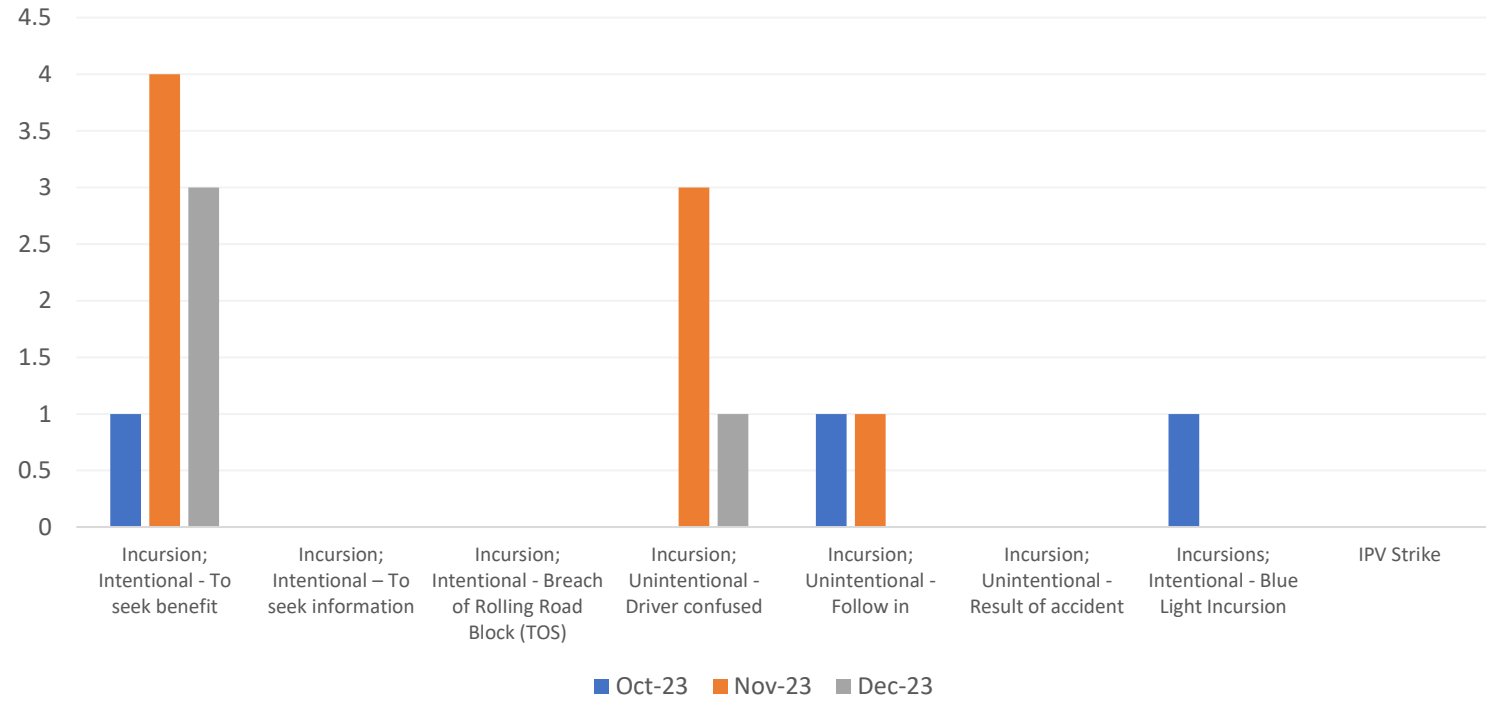


Incursion rate per length of TM (Unknown)

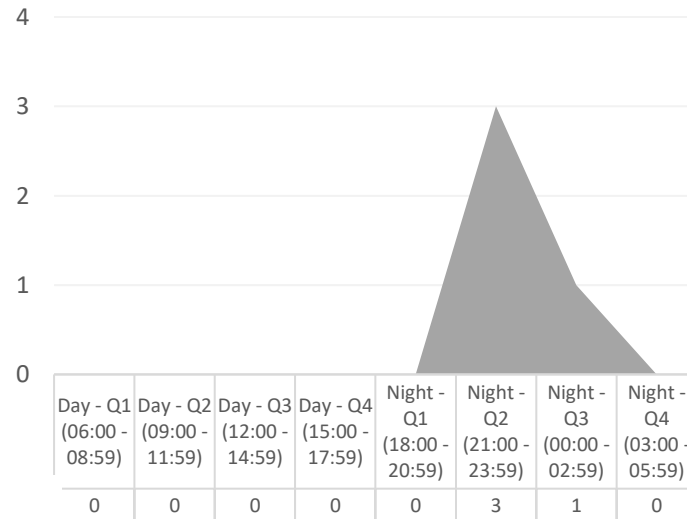
Project Incursion Rate: Length of TM data not available

Breakdown Rate: Length of TM data not available

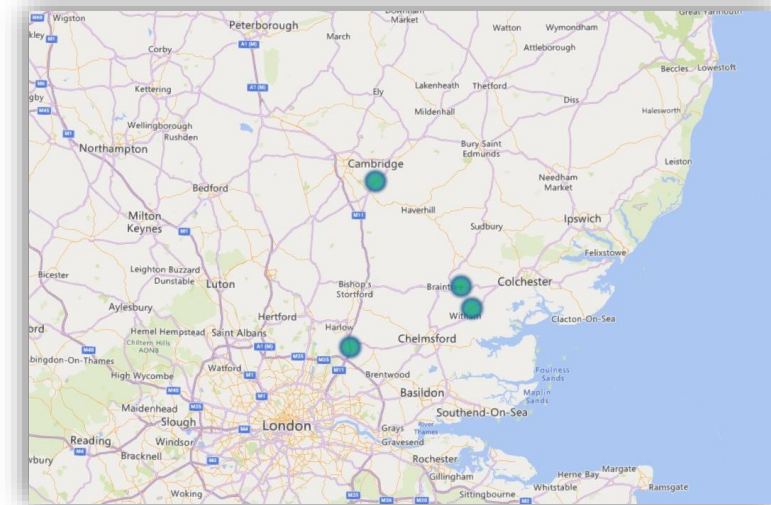
AD - M&R - Eight



Time Profile of Incursions recorded



Heatmap



Incursions Report

Directorate: Major Projects

Region: Yorkshire North East

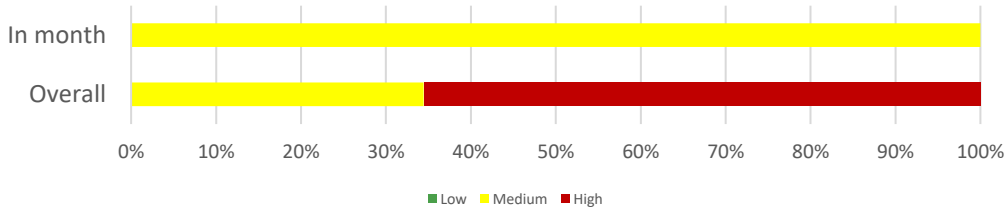
3 Month Incursion analysis

- MP-0116 - A63 Castle Street - RIP a total of 3 incursions have been recorded; with a 200% increase in 'Driver confused' type incursions together with a 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 & links closures)

Area Incursion Risk Rating

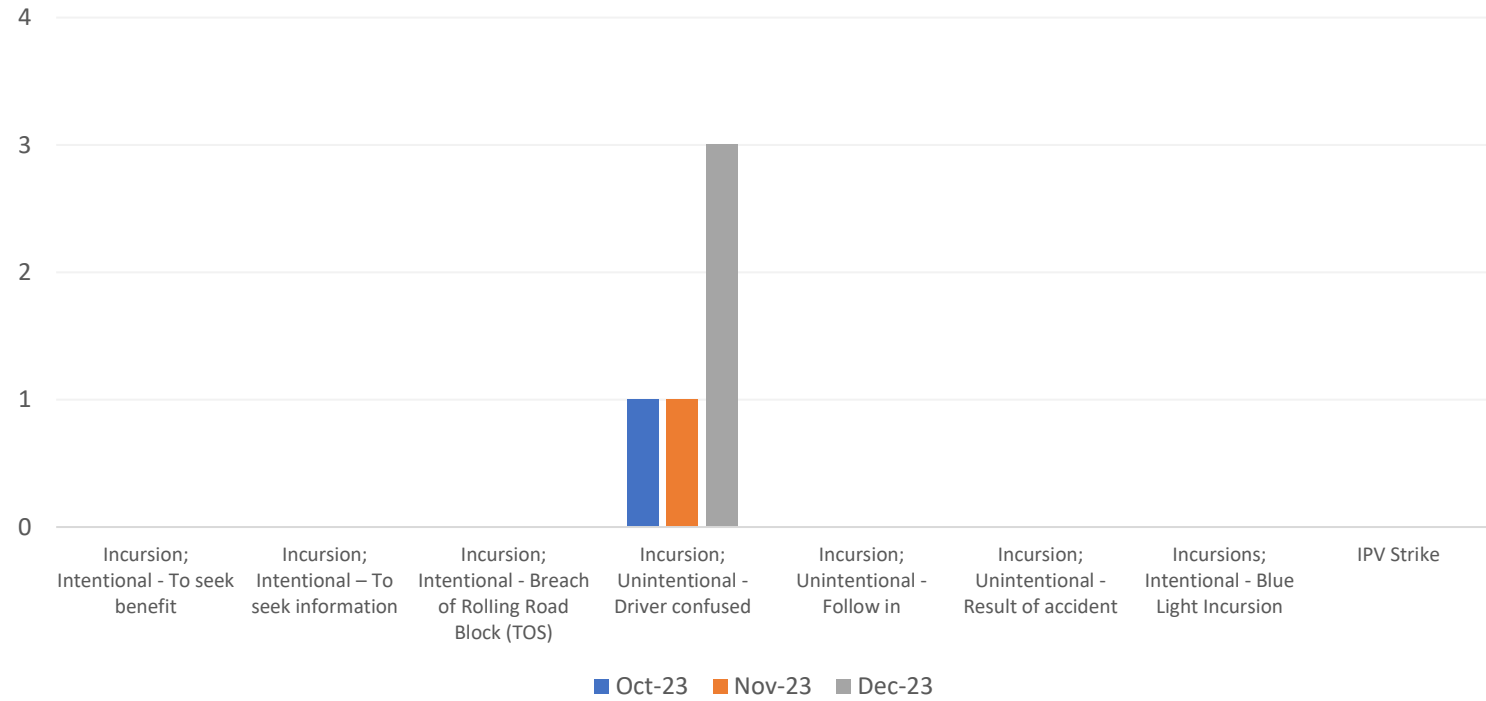


Incursion Rate for per Length of TM

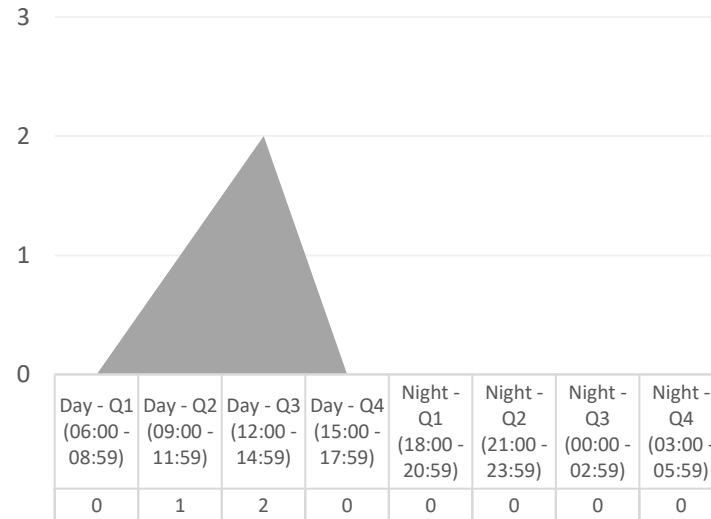
Project Incursion Rate: TM Length required

Breakdown Rate: TM Length required

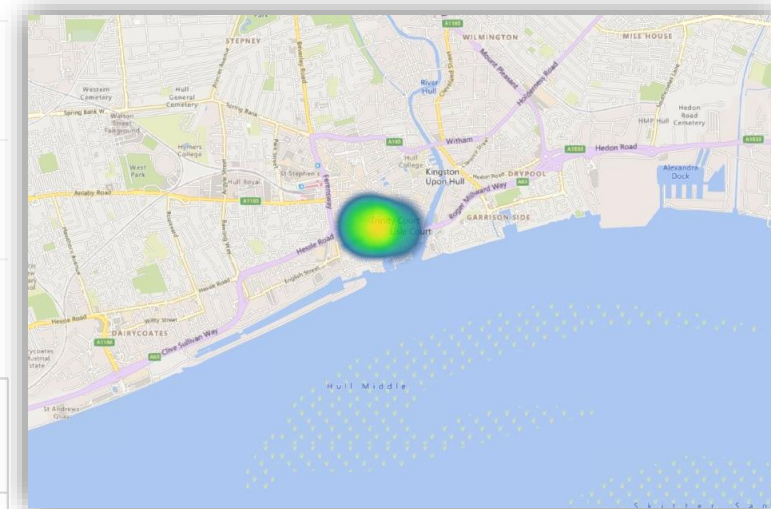
MP-0116 - A63 Castle Street - RIP



Time Profile of Incursions recorded

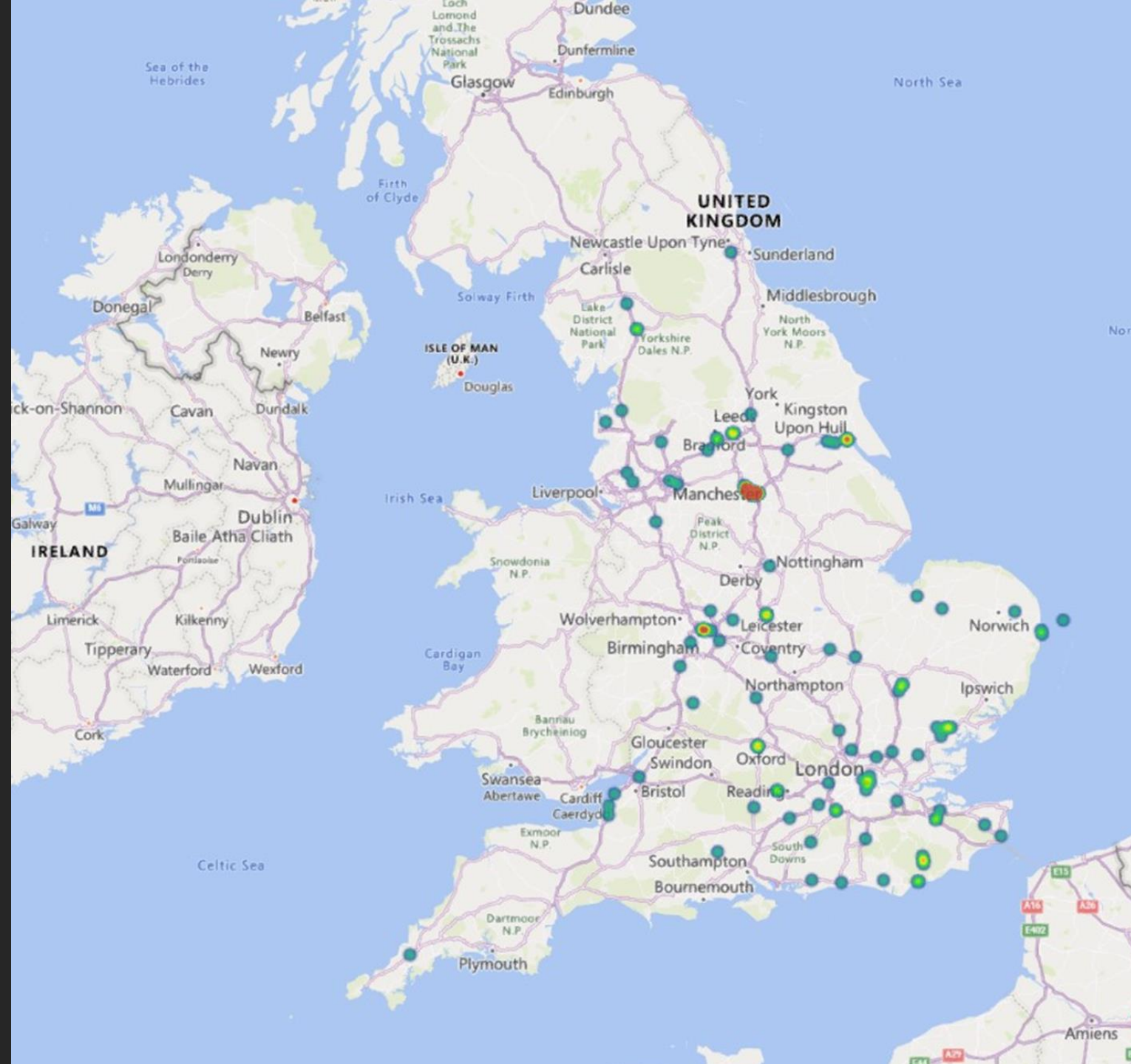


Heatmap



Heatmap of Incursions recorded in December 2023

- “98% of all incursions were recorded with coordinates”



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

