

IPV & Incursion Working Group Report – November 2023

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Rev 0 – 11/12/2023

Data Source: HART [WD2]

Incursions Report - Headline

To date, the total number of incursions recorded since October 2017 is **14754**

| Kind of Event | Directorate | | | | |
|---|----------------|-------------|--------------------|---------------------|--------------|
| | Major Projects | Operations | Outstations & ROCs | NH Offices & Depots | Grand Total |
| Incursion; Intentional - To seek benefit | 840 | 2094 | 594 | 59 | 3587 |
| Incursion; Intentional – Because of breakdown | 4198 | 402 | 143 | 3 | 4746 |
| Incursion; Intentional – To seek information | 59 | 89 | 29 | 5 | 182 |
| Incursion; Intentional - Breach of Rolling Road Block (TOS) | 4 | 23 | 872 | 8 | 907 |
| Incursion; Unintentional - Driver confused | 911 | 638 | 271 | 41 | 1861 |
| Incursion; Unintentional - Follow in | 157 | 190 | 16 | 3 | 366 |
| Incursion; Unintentional - Result of accident | 301 | 180 | 69 | 5 | 555 |
| Incursions; Intentional - Blue Light Incursion | 53 | 72 | 1 | 2 | 128 |
| IPV Strike | 18 | 59 | 9 | 0 | 86 |
| Incursion to seek information or benefit | 233 | 1085 | 174 | 18 | 1510 |
| Incursion unintentional - confused or follow in | 181 | 429 | 210 | 6 | 826 |
| Grand Total | 6955 | 5261 | 2388 | 150 | 14754 |

| 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%) | 1979 |

Incursions Report - Headline

237 Incursions were recorded for November 2023

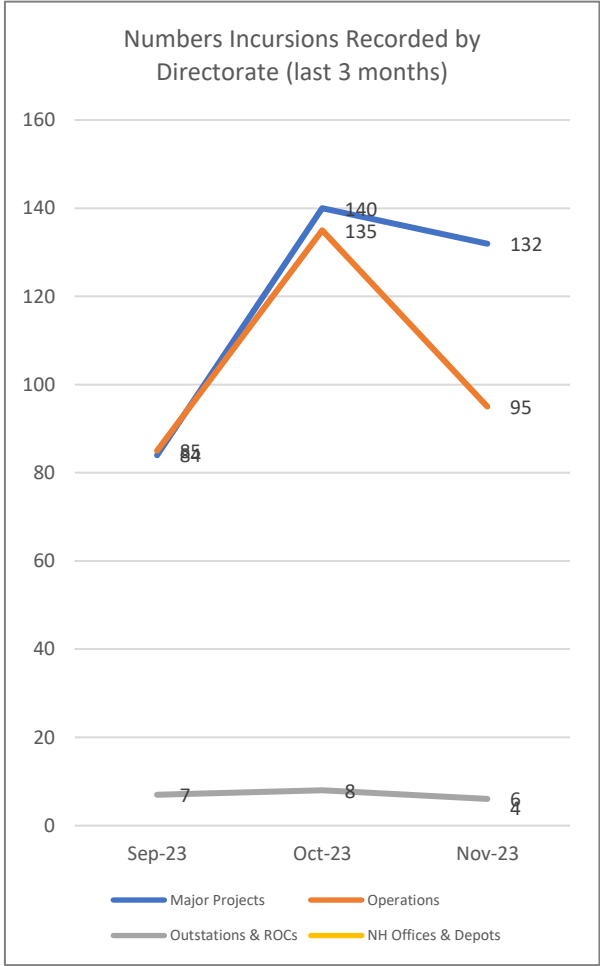
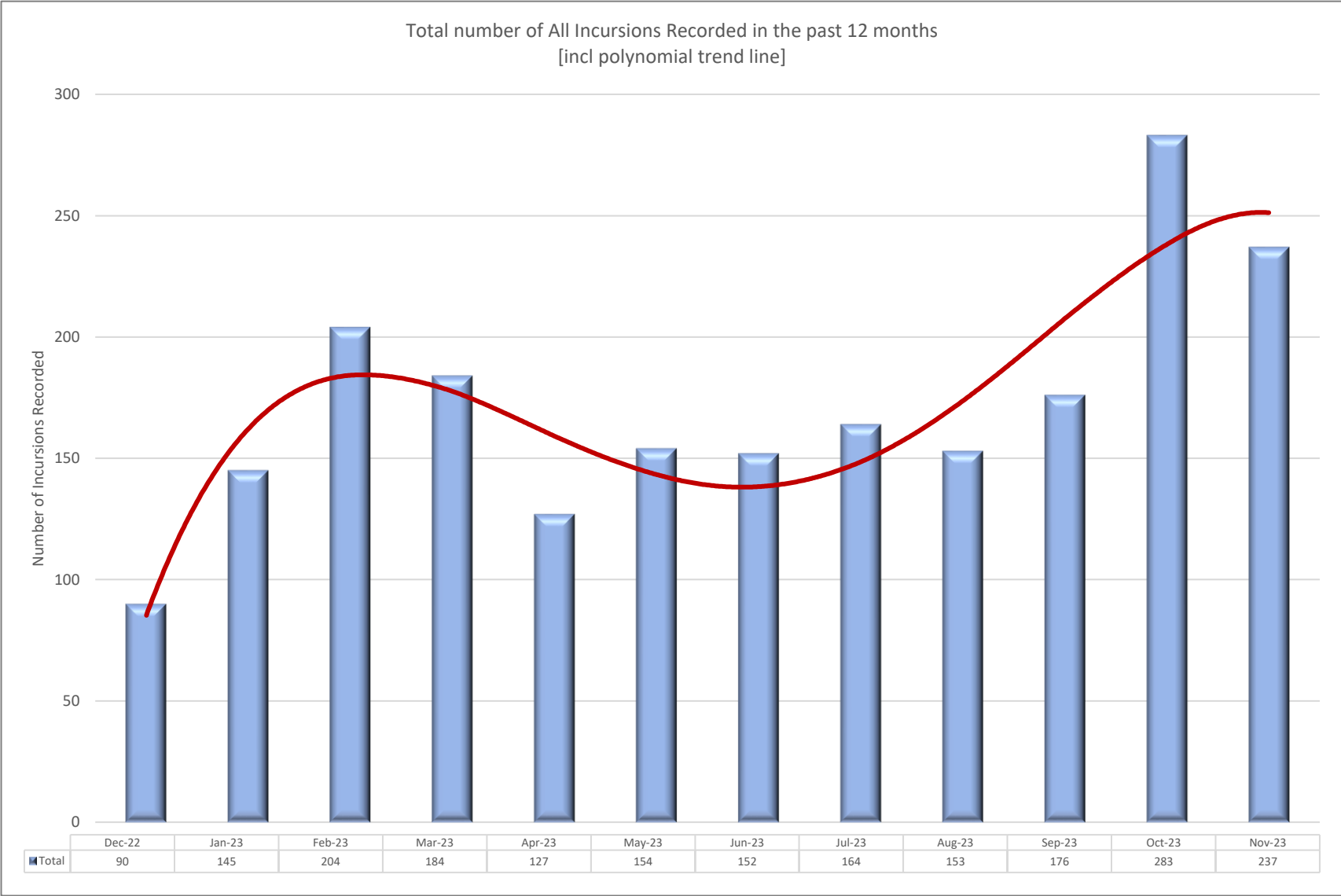
| Kind of Event | Directorate | | | | Grand Total |
|---|----------------|------------|--------------------|---------------------|-------------|
| | Major Projects | Operations | Outstations & ROCs | NH Offices & Depots | |
| Incursion; Intentional - To seek benefit | 31 | 63 | 5 | 1 | 100 |
| Incursion; Intentional – Because of breakdown | 61 | 11 | 0 | 0 | 72 |
| Incursion; Intentional – To seek information | 3 | 0 | 0 | 0 | 3 |
| Incursion; Intentional - Breach of Rolling Road Block (TOS) | 0 | 0 | 0 | 0 | 0 |
| Incursion; Unintentional - Driver confused | 23 | 11 | 1 | 1 | 36 |
| Incursion; Unintentional - Follow in | 3 | 5 | 0 | 0 | 8 |
| Incursion; Unintentional - Result of accident | 9 | 2 | 0 | 0 | 11 |
| Incursions; Intentional - Blue Light Incursion | 2 | 2 | 0 | 2 | 6 |
| IPV Strike | 0 | 1 | 0 | 0 | 1 |
| Grand Total | 132 | 95 | 6 | 4 | 237 |

Incursions Report - Headline

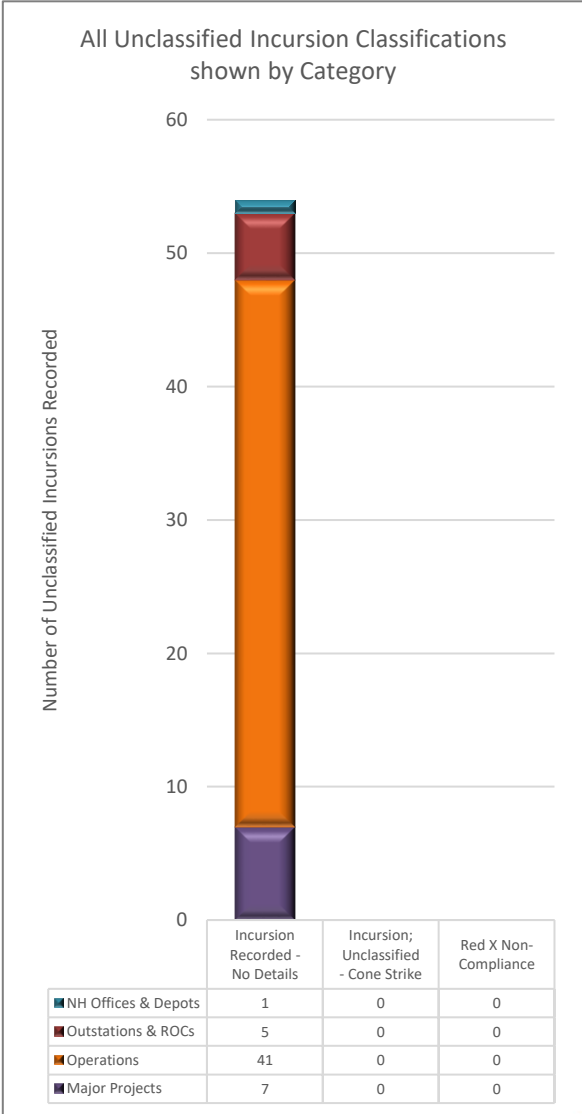
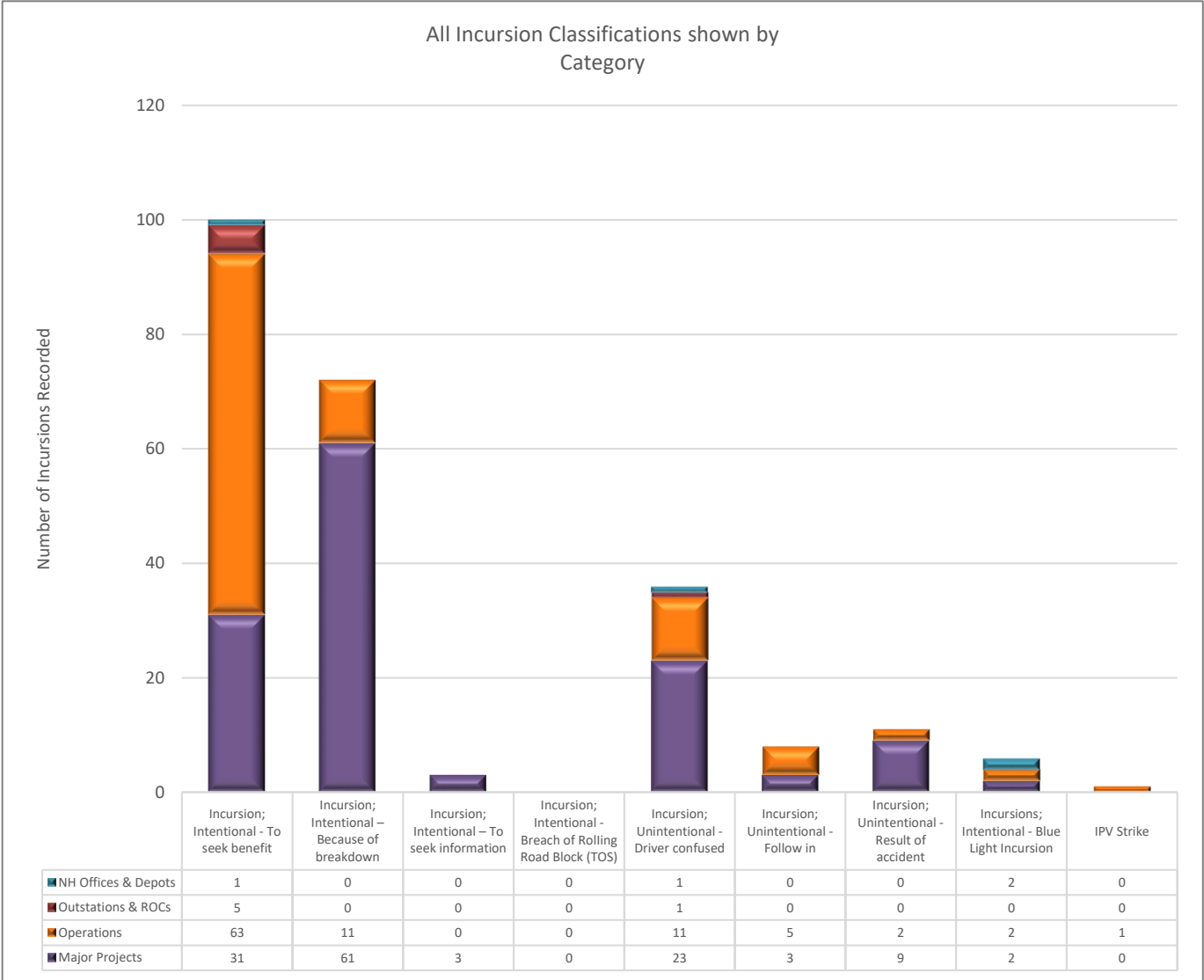
Table shows the average number of incursions recorded by directorate and type in the past 12-month period.

| Incursion Category | Directorate | | | Comments |
|---|----------------|------------|--------------------|--|
| | Major Projects | Operations | Outstations & ROCs | |
| Incursion; Intentional - To seek benefit | 15.83 (↑) | 51.58 (↑) | 4.50 (↓) | An increase in the av incursion rate for both MP & Ops with Ops seeing a month on month increase over the past 12 months |
| Incursion; Intentional – To seek information | 1.08 (↑) | 1.42 (=) | 0.00 (=) | An increase the in av incursion rate in MP; overall figures have been consistent over the past 12 months |
| Incursion; Intentional – Because of breakdown | 31.58 (↑) | 6.67 (↑) | 0.50 (↑) | Increase in the av incursions rates seen across all directorates with consistent figures over the past 12 months |
| Incursion; Intentional - Breach of Rolling Road Block (TOS) | 0.00 (=) | 0.08 (=) | 0.75 (↑) | An increase the in av incursion rate from our ROCs with an over all reduction in the past 12 months |
| Incursion; Unintentional - Driver confused | 16.75 (↑) | 13.67 (↓) | 1.58 (↑) | Increase in both the av incursion rate for both MP and ROCs has been seen this month; generally consistent |
| Incursion; Unintentional - Follow in | 3.17 (↑) | 4.67 (↑) | 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 | 5.83 (↑) | 3.08 (↓) | 0.42 (=) | Increase in both the av incursion rate for both MP and Ops has been seen this month; generally consistent |
| IPV Strike | 0.25 (=) | 1.42 (↓) | 0.17 (↓) | Data suggests that the av number of IPV strikes is falling |
| Incursions; Intentional – Blue Light Incursion | 2.75 (↓) | 4.25 (↓) | 0.08 (=) | Data suggests that the av number of BLI is falling |

Incursions Report – All Incursions



Incursions Report – All Incursions during November 23



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

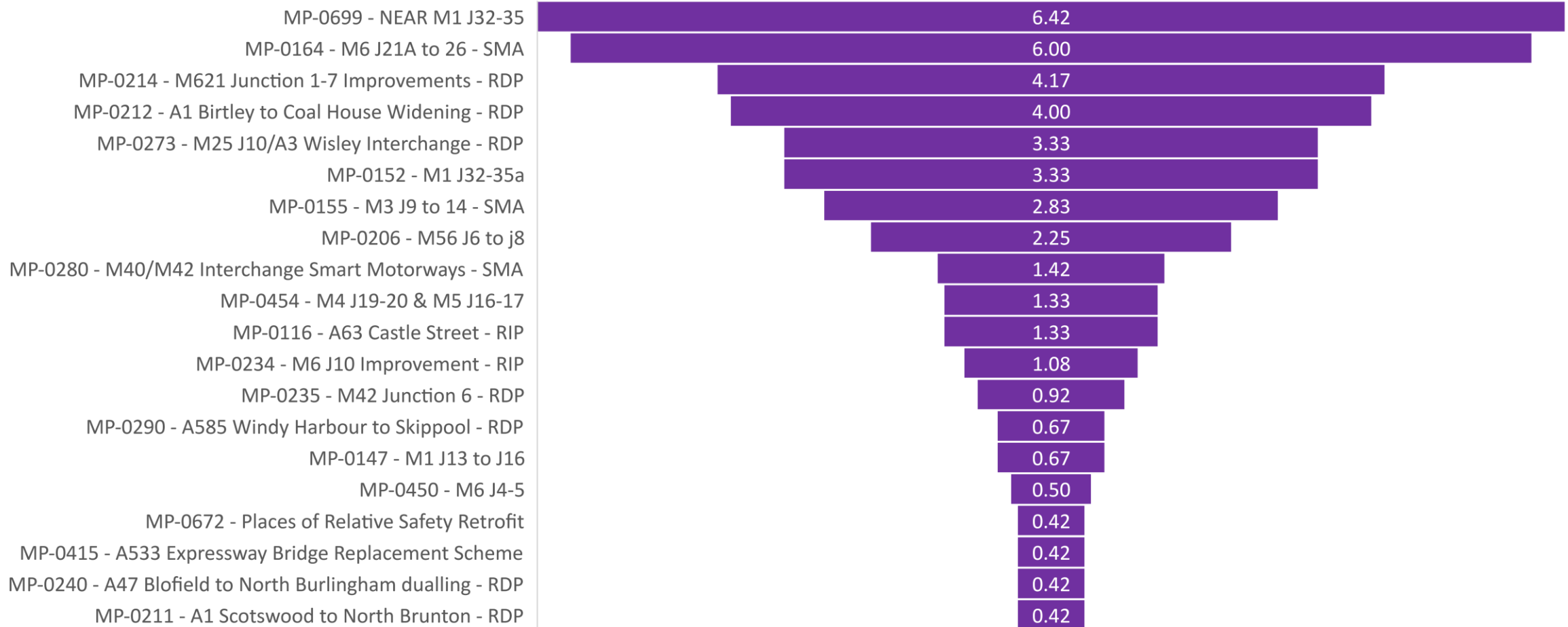
1. Incursion; Intentional - To seek benefit [100]
2. Incursion; Unintentional - Driver confused [36]
3. Incursion; Unintentional - Result of accident [11]
4. Incursion; Unintentional - Follow in [8]
5. Incursions; Intentional - Blue Light Incursion [6]
6. Incursion; Intentional – To seek information [3]
7. IPV Strike [1]
8. Incursion; Intentional - Breach of Rolling Road Block (TOS) [0]

Note - Incursion; Intentional – Because of breakdown [72]



Incursions Report for Major Projects

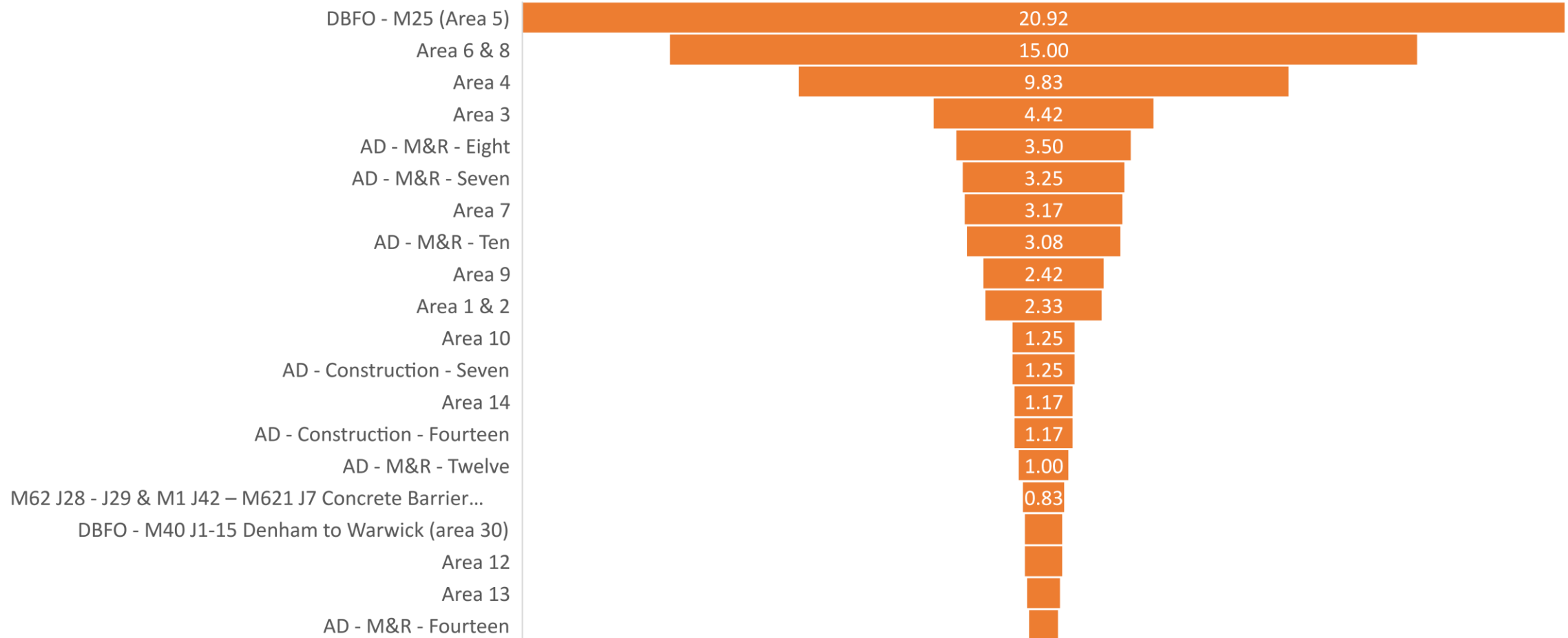
12 month rolling average of the number of all 'Incursions per Month'*



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

Incursions Report for Operations Directorate

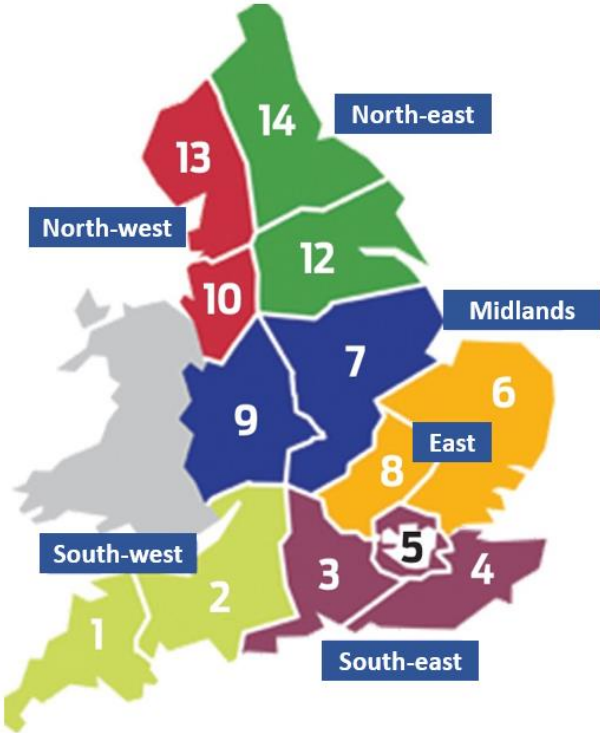
12 month rolling average of the number of all 'Incursions per Month'*



* 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 | 269 | 30 | 299 |
| South East | 54 | 238 | 292 |
| Midlands | 128 | 79 | 207 |
| East | 11 | 154 | 165 |
| North West | 65 | 39 | 104 |
| South West | 15 | 23 | 38 |

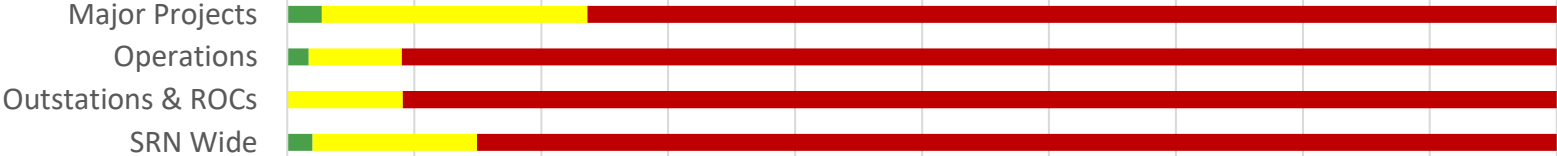


All Incursions (from 2017 to current)

Incursion Risk Ratings for all incursions recorded and in month



November 2023

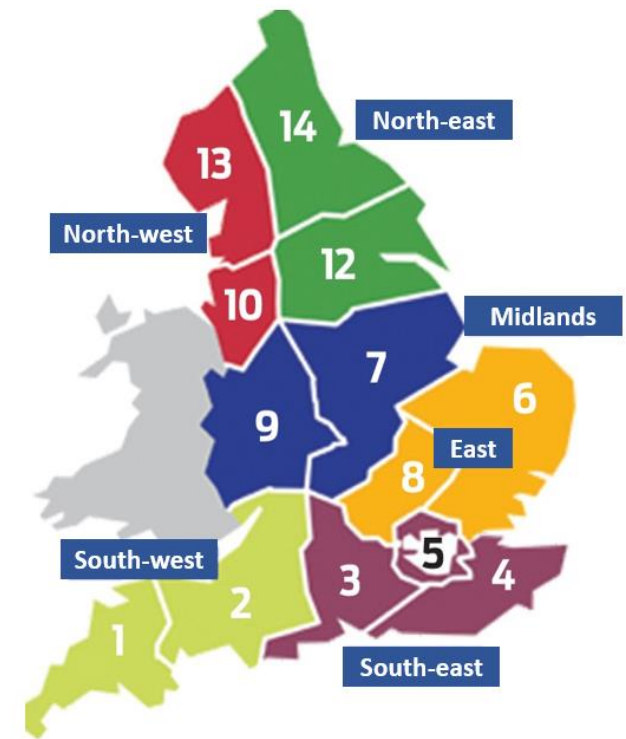


0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Low Medium High

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 | 269 | 30 | 299 |
| South East | 54 | 238 | 292 |
| Midlands | 128 | 79 | 207 |
| East | 11 | 154 | 165 |
| North West | 65 | 39 | 104 |
| South West | 15 | 23 | 38 |



| 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 | 19 | 2 | 0 | 0 | 0 | 0 | 20 | 1 | 2 | 1 | 9 | 0 | 0 | 1 | 1 | 0 | 54 | 0 | 105 | 5 | 110 | |
| South East | 1 | 23 | 1 | 0 | 0 | 0 | 2 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 6 | 6 | 38 | 44 | | |
| East | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 28 | 28 | | | |
| Midlands | 5 | 12 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 11 | 12 | 23 | | |
| North West | 4 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 8 | 8 | 16 | | |
| South West | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 6 | | |

Blue Light Incursions Report - Headline

128 Blue Light Incursions have been recorded since February 2022 with **6** being recorded in November 2023 (Edited Record)

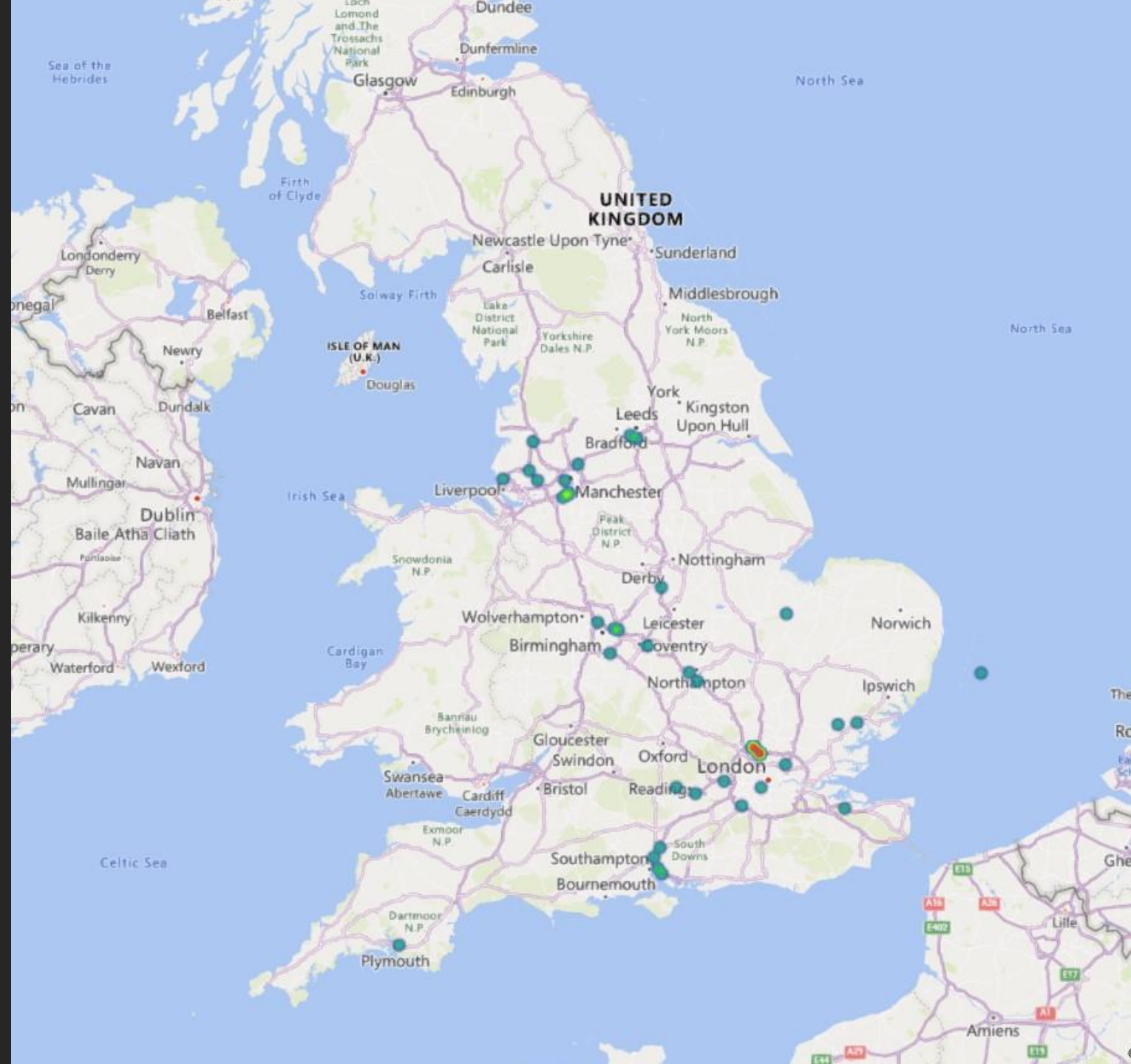
| Record ID | Date | Time | Directorate | Region | Programme | Site / Project | Type of Closure | Type of TTM | Location | Specific Location | Details of actual job being done | Describe the facts of what happened | Immediate Actions Taken |
|-----------|------------|----------|----------------|---|------------------------------|--|-----------------|---------------|---------------|-------------------|----------------------------------|--|---|
| 147067 | 05/11/2023 | 21:54:00 | Major Projects | Yorkshire & North East - Major Projects | Yorkshire & North East - RIP | MP-0214 - M621 Junction 1-7 Improvements - RDP | Not populated | Not populated | Not populated | Not populated | TSCO Patrol | TSCO observed a police vehicle travelling on the ACW carriageway from junction 4 to 5. | This will be picked up on the CCTV cameras. |
| 147269 | 10/11/2023 | 02:39:00 | Operations | South East - Operations | South East - DBFO | DBFO - M25 (Area 5) | Not populated | Not populated | Not populated | Not populated | Road closure | Police car incursion, entered Milestone full closure through closed cones from M11B to M25B link to M25B to M11A link at speed exceeding 50mph | Warned workforce ASAP and report to NOC. |
| 147390 | 09/11/2023 | 02:45:00 | Operations | South East - Operations | South East - DBFO | DBFO - M25 (Area 5) | Not populated | Not populated | Not populated | Not populated | Resurfacing and crack sealing | Approximately at 2:45am, a police car with blue light drove through the closure. | Not Populated |

Blue Light Incursions Report - Headline

128 Blue Light Incursions have been recorded since February 2022 with **6** being recorded in November 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 |
|-----------|------------|----------|---------------------|-------------------------------------|------------------------|------------------------------|-------------------------|---------------------------------|------------------------------|--------------------|---|--|--|
| 147777 | 24/11/2023 | 23:30:00 | NH Offices & Depots | West Midlands - NH Offices & Depots | West Midlands - Depots | Perry Barr Depot, Birmingham | Lane Closure - Mainline | Relaxation works – Lane closure | Traffic management enclosure | Motorway 6-5 178/4 | Carrying out a site report of drainage works. | There was about 6 ambulances heading south on blue lights with sirens all within a few minutes of each other. Two of the ambulances entered the closure to undertake traffic in LBS4 past the works area at an approximate speed of 50mph. | I went to check that everyone was OK. It wasn't so much a close call it was more of the fact that the ambulances didn't need to enter the closure and at the speed they entered. |
| 147777 | 24/11/2023 | 23:30:00 | NH Offices & Depots | West Midlands - NH Offices & Depots | West Midlands - Depots | Perry Barr Depot, Birmingham | Lane Closure - Mainline | Relaxation works – Lane closure | Traffic management enclosure | Motorway 6-5 178/4 | Carrying out a site report of drainage works. | There was about 6 ambulances heading south on blue lights with sirens all within a few minutes of each other. Two of the ambulances entered the closure to undertake traffic in LBS4 past the works area at an approximate speed of 50mph. | I went to check that everyone was OK. It wasn't so much a close call it was more of the fact that the ambulances didn't need to enter the closure and at the speed they entered. |
| 147805 | 23/11/2023 | 23:20:00 | Major Projects | Midlands - Major Projects | Midlands - SMP | MP-0451 - M6 J5-8 | Lane Closure - Mainline | Relaxation works – Lane closure | Carriageway B | M6 7-6 187/2 | Piling | Approximately 11.20 pm 3no ambulances sped past the workforce in the closure in L2 at approx 70mph. | Site team reported to TSCO and reported to ROC log no 2581 |

Heatmap of all Blue Light Incursions (BLI) recorded

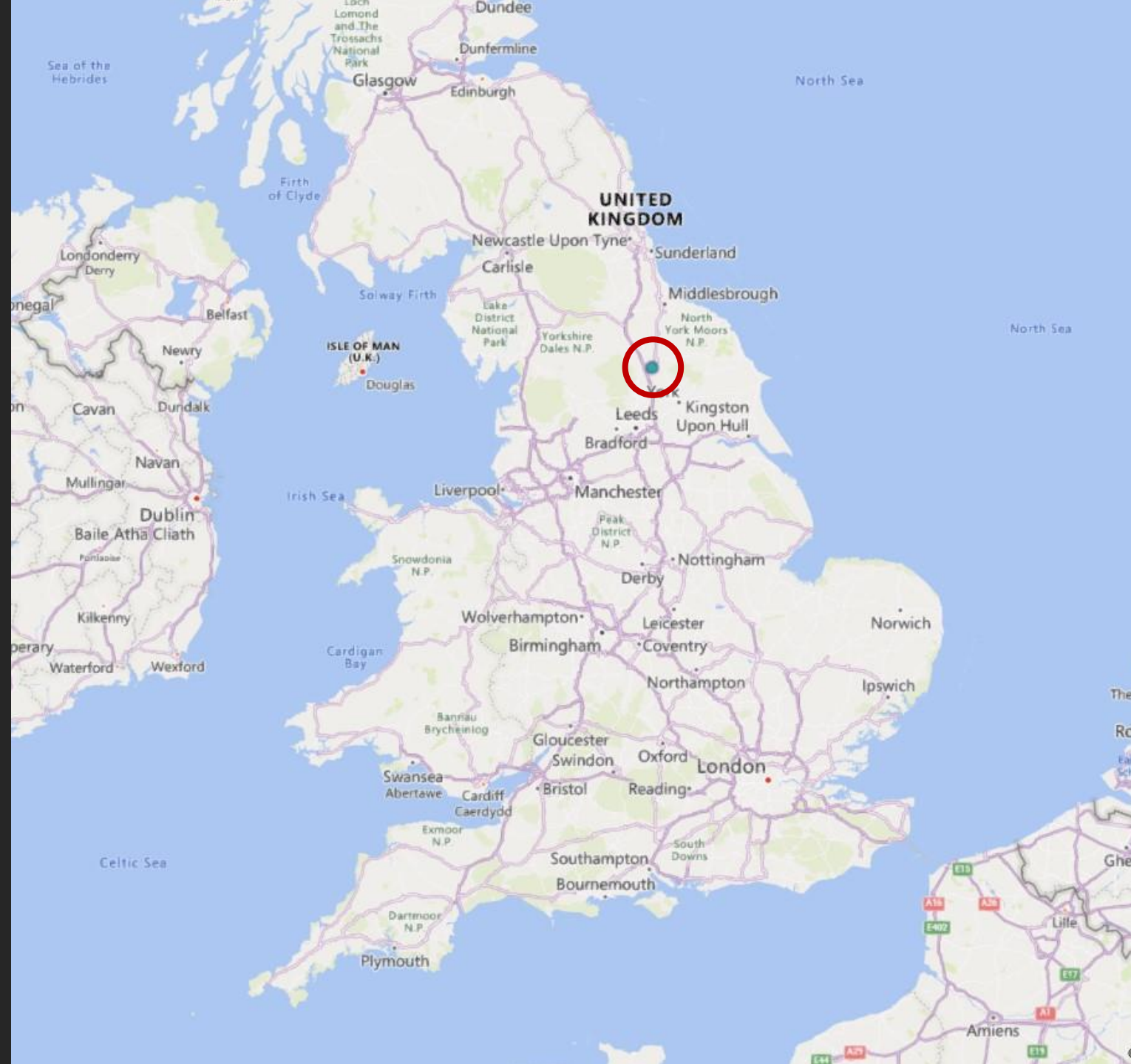


IPV Strike Report - Headline

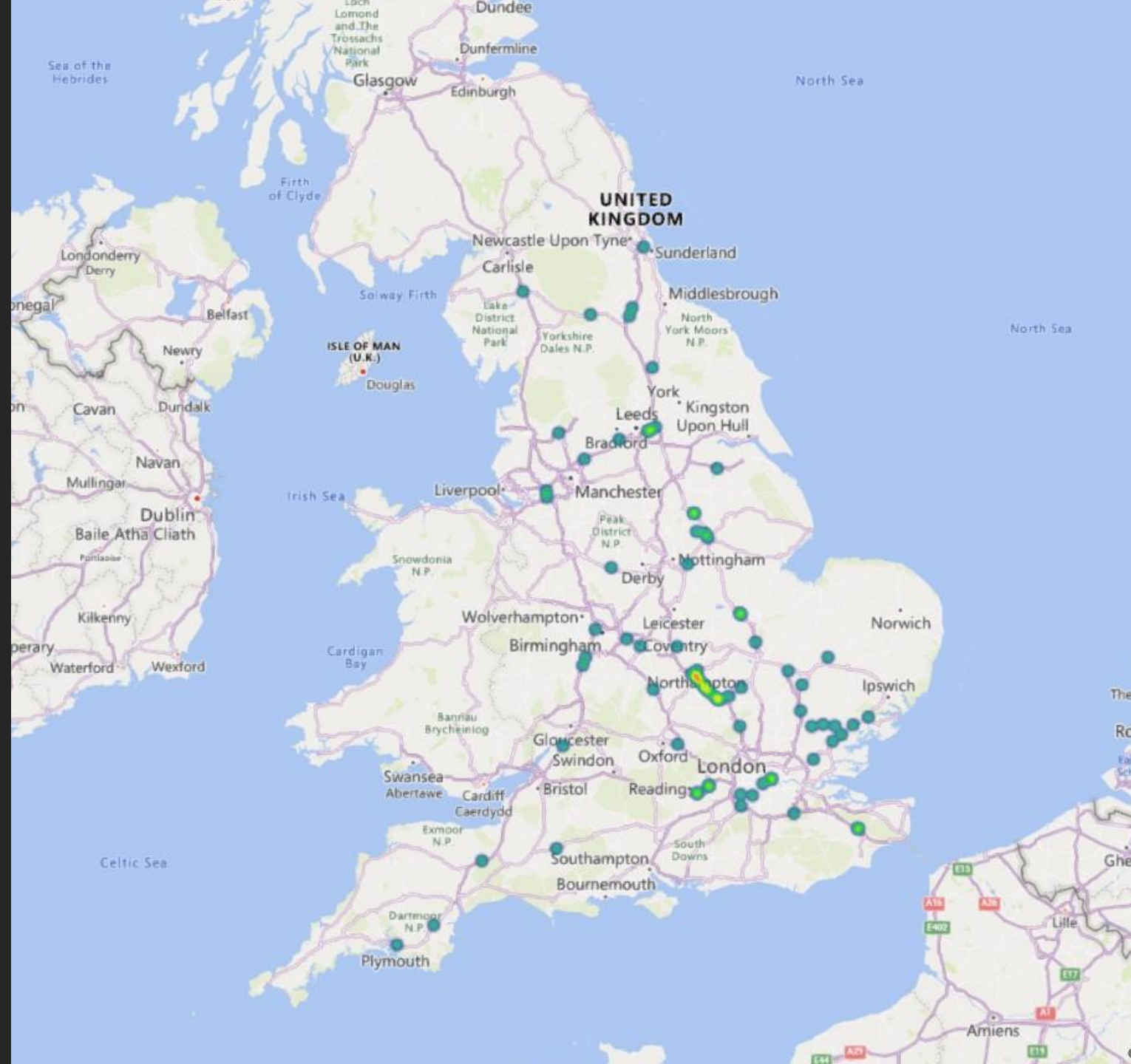
86 IPV strikes have been recorded since November 2019 with **1** being recorded in November 2023 (Edited Record)

| 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 |
|-----------|------------|----------|-------------|-------------------------------------|-------------------------------|--|--------------------------|---------------------------------|---------------|---|-------------------------------------|---|---|
| 147399 | 14/11/2023 | 02:30:00 | Operations | Yorkshire & North East - Operations | Yorkshire & North East - DBFO | DBFO - A168 / A19 Dishforth to Tyne Tunnel | Lane Closure - Slip Road | Relaxation works – Lane closure | Carriageway A | A168 Northbound A168 n/b @ A167 Topcliffe interchange n/a | TM removal from the entry slip road | Impact Protection Vehicle (IPV) was struck in Lane 1 of the dual carriageway by a third party LGV whilst traffic management removal activities were being undertaken. | The driver of the IPV was checked by ambulance staff on scene, he confirmed he felt ok and didn't attend hospital for any checks. |

Heatmap of IPV Strikes recorded during November 23



Heatmap of all IPV Strikes recorded



Incursions Report

Directorate: Major Projects

Region: Yorkshire & North East

3 Month Incursion analysis

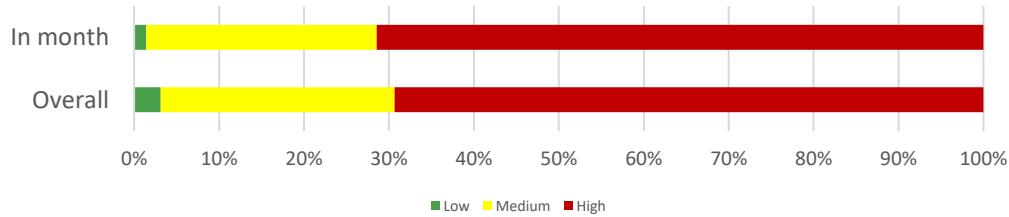
- MP-0699 - NEAR M1 J32-35 a total of 46 incursions have been recorded; with a 300% increase in 'Seeking Benefit' type incursions together with a 73% increase in 'Driver confused' 10% decrease in 'Result of accident' 50% decrease in 'Follow in' type incursions

- 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 '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

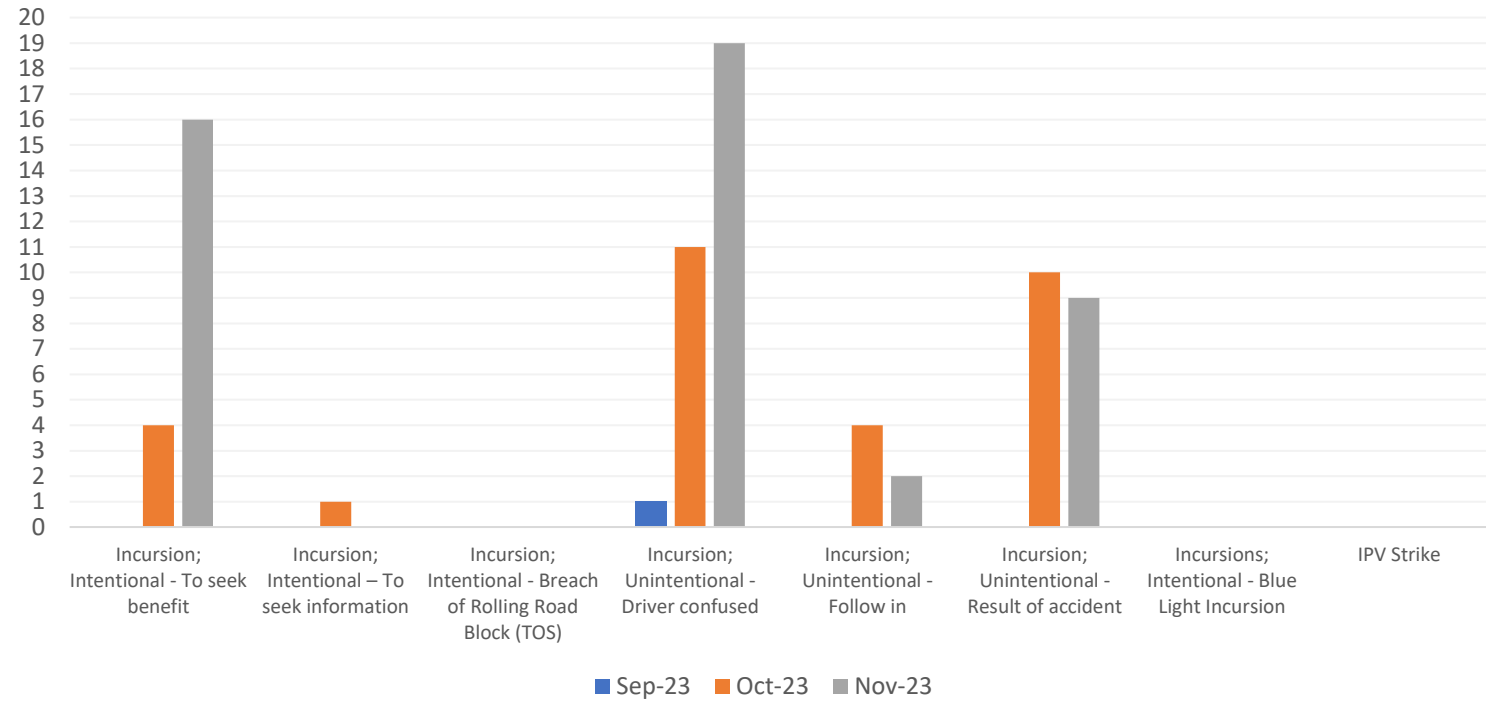


Incursion rate per length of TM (Unknown)

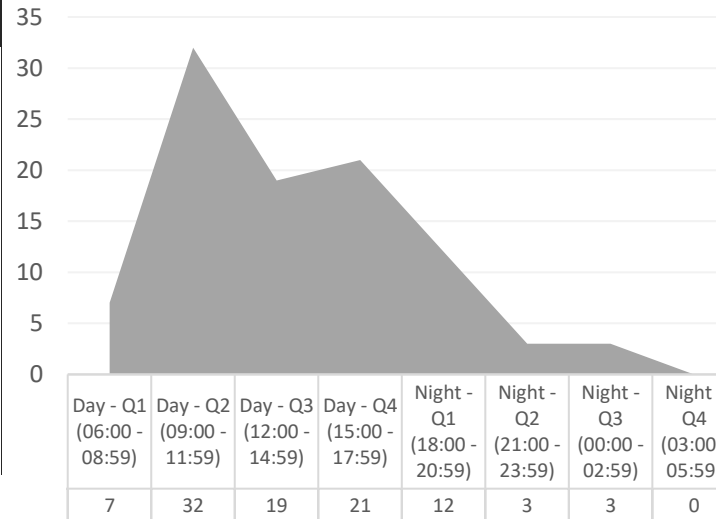
Project Incursion Rate: Length of TM data not available

Breakdown Rate: Length of TM data not available

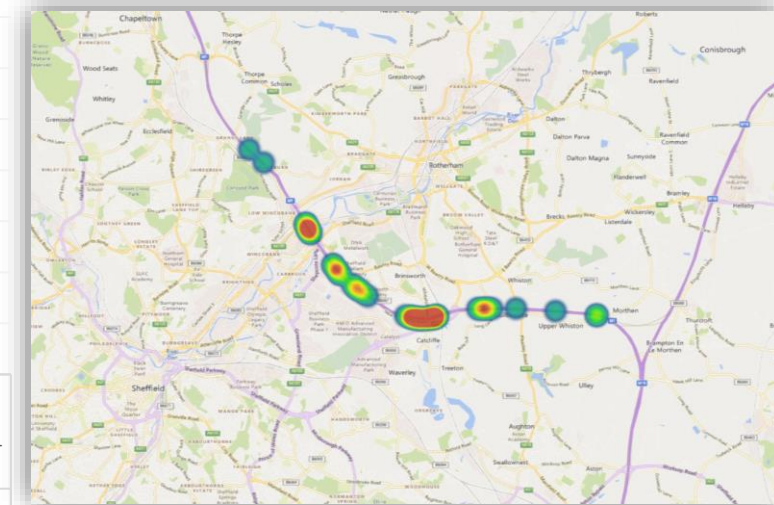
MP-0699 - NEAR M1 J32-35



Time Profile of Incursions recorded



Heatmap



Incursions Report

Directorate: Operations

Region: South East

3 Month Incursion analysis

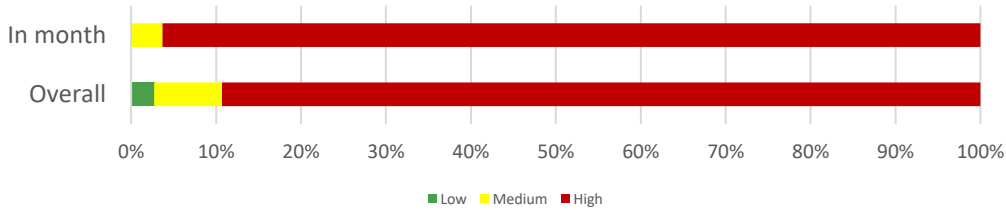
- Area 4 a total of 18 incursions have been recorded; with a 125% increase in 'Seeking Benefit' type incursions together with a type incursions
- Bottom left – Area Incursion Risk Rating with 'In-month' rating worse than 'Overall' rating
- Bottom middle – Time profile for 'all' incursion types recorded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

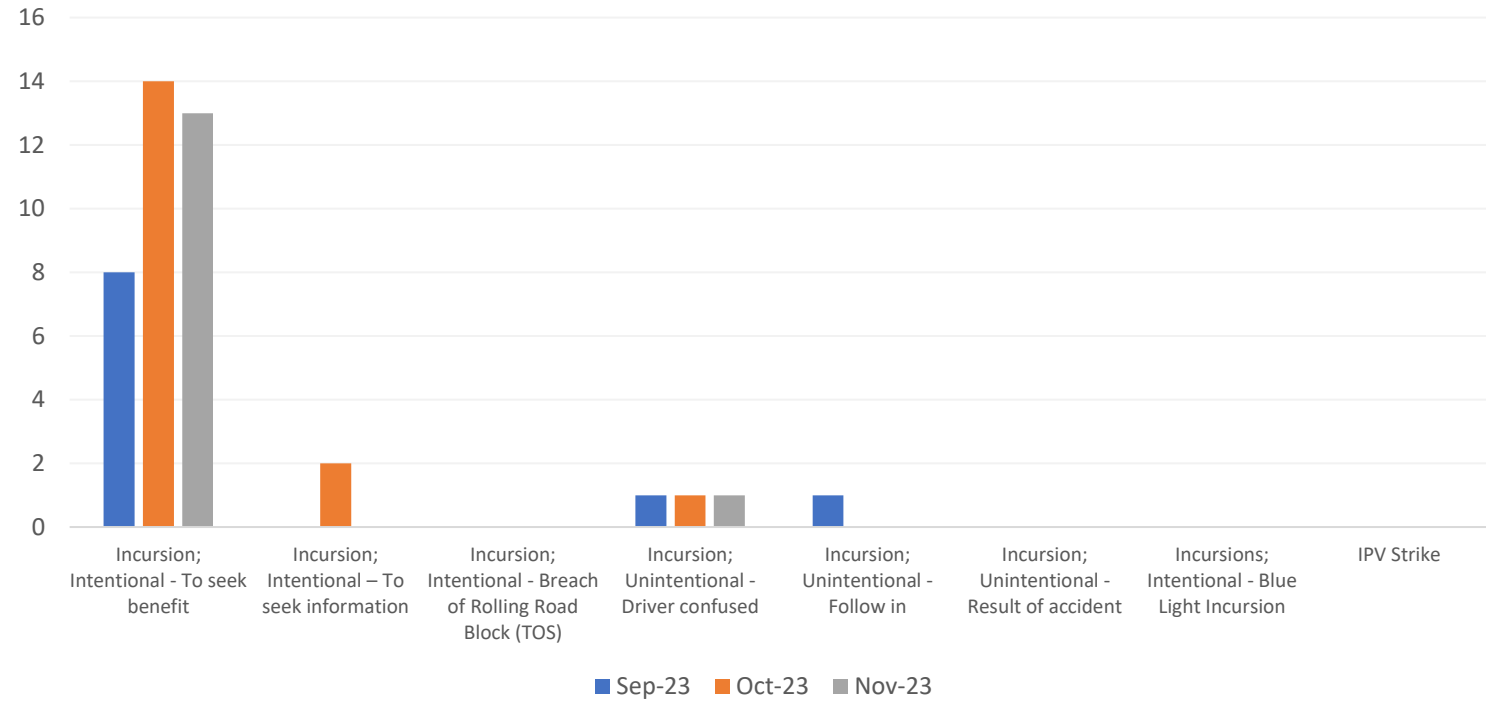


Incursion rate per length of TM (Unknown)

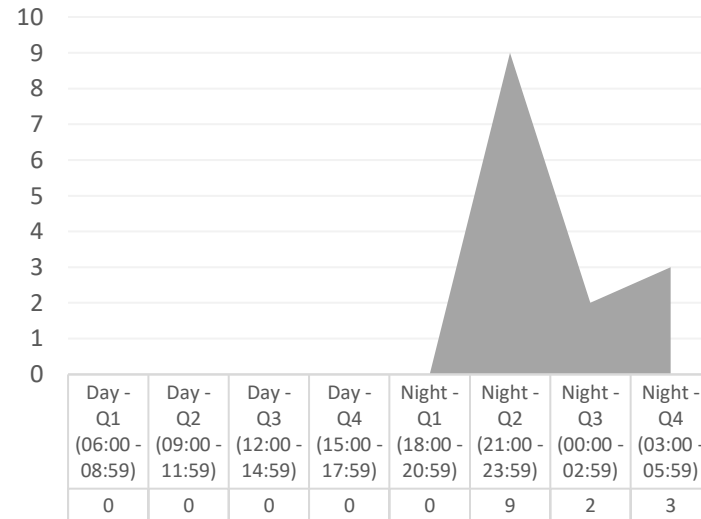
Project Incursion Rate: Length of TM data not available

Breakdown Rate: Length of TM data not available

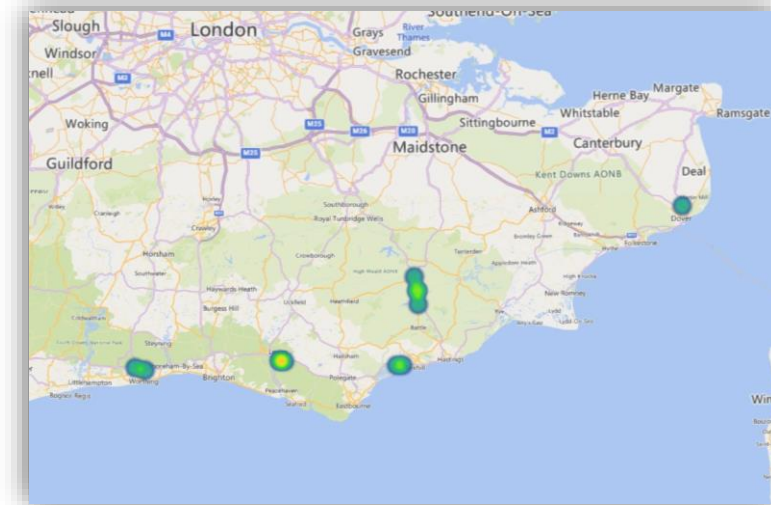
Area 4



Time Profile of Incursions recorded



Heatmap



Incursions Report

Directorate: Operations

Region: East

3 Month Incursion analysis

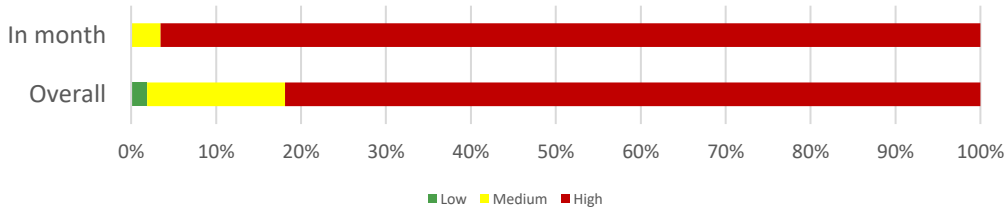
- Area 6 & 8 a total of 15 incursions have been recorded; with a 63% increase in 'Seeking Benefit' type incursions together with a 75% decrease in 'Driver confused' 67% decrease in 'Result of accident' type incursions
- Bottom left – Area Incursion Risk Rating with 'In-month' rating worse than 'Overall' 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

Area Incursion Risk Rating

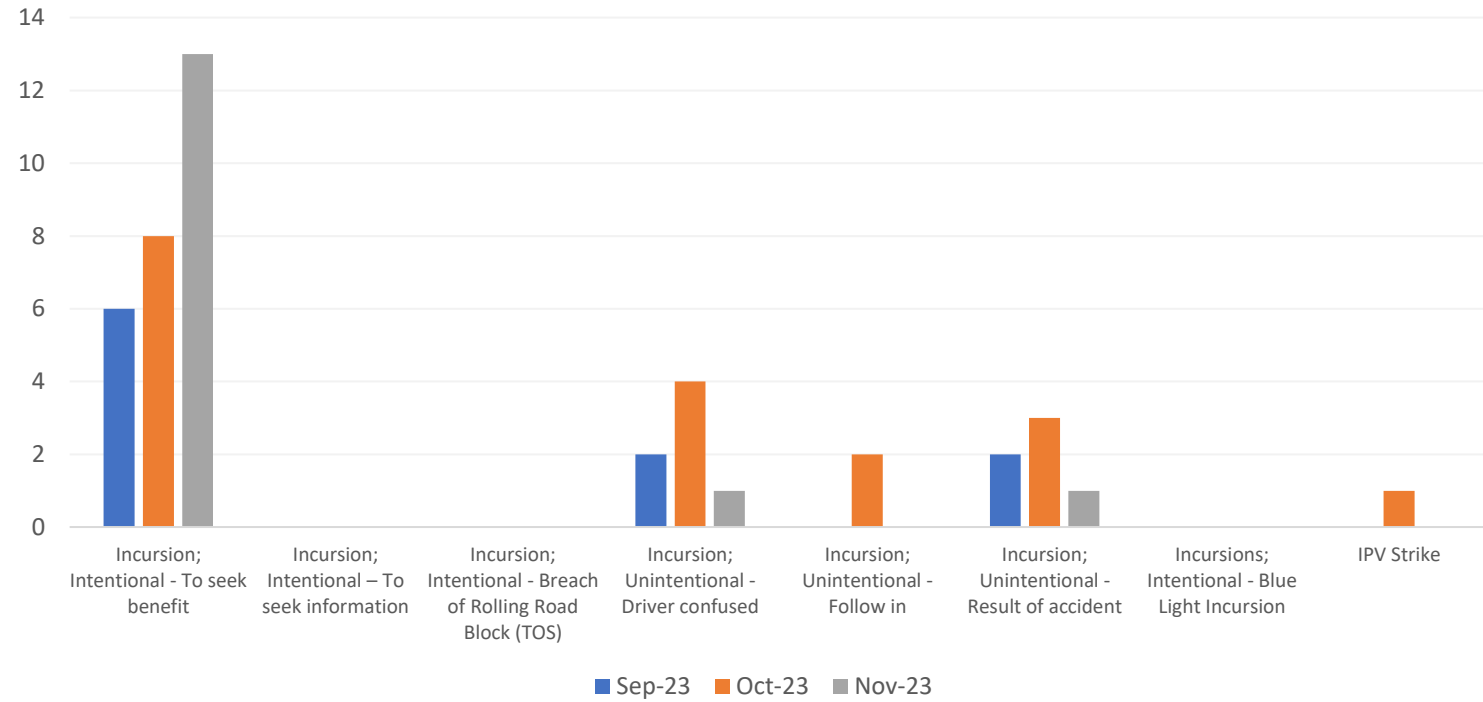


Incursion rate per length of TM (Unknown)

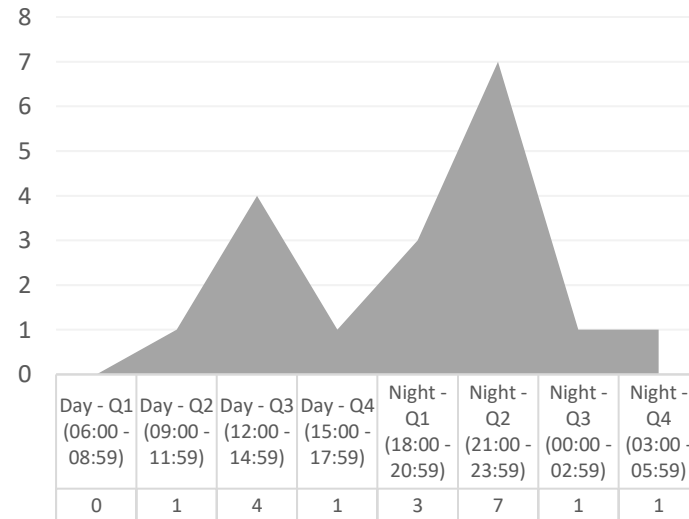
Project Incursion Rate: Length of TM data not available

Breakdown Rate: Length of TM data not available

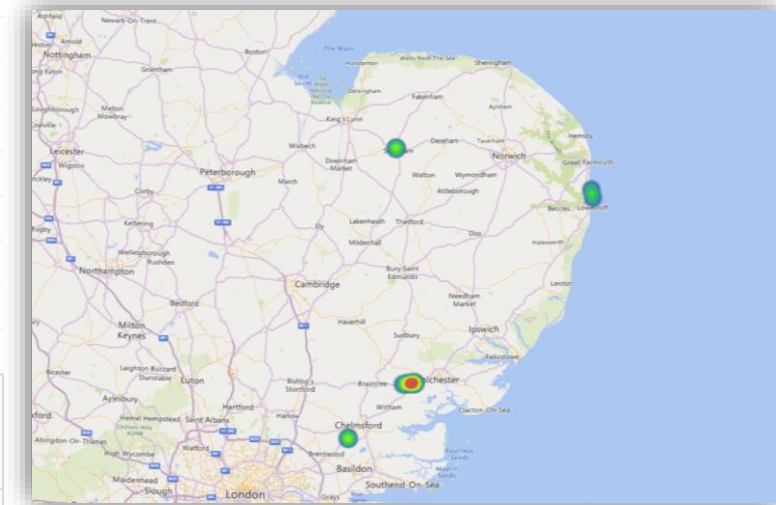
Area 6 & 8



Time Profile of Incursions recorded



Heatmap



Incursions Report

Directorate: Operations

Region: South East

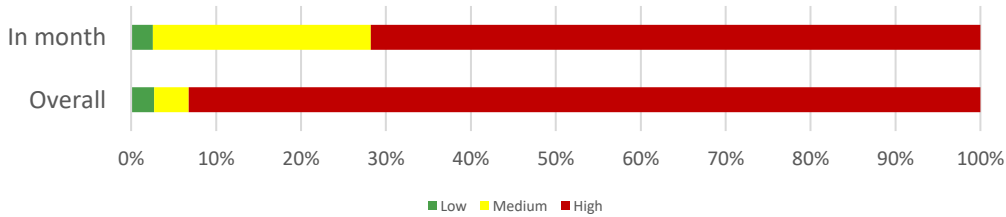
3 Month Incursion analysis

- DBFO - M25 (Area 5) a total of 13 incursions have been recorded; with a 100% increase in 'Blue Light' type incursions together with a 100% increase in 'Follow in' 25% increase in 'Driver confused' 72% 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 '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

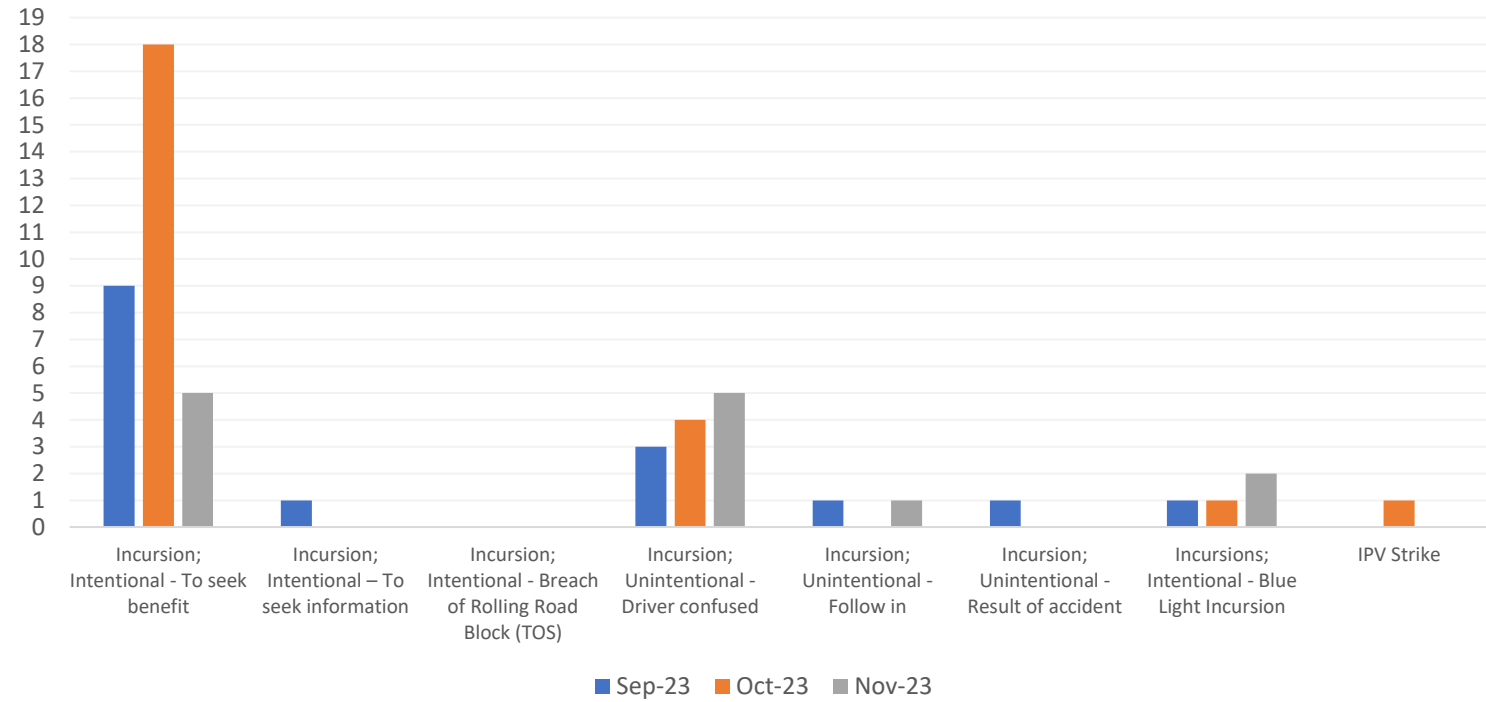


Incursion rate per length of TM (Unknown)

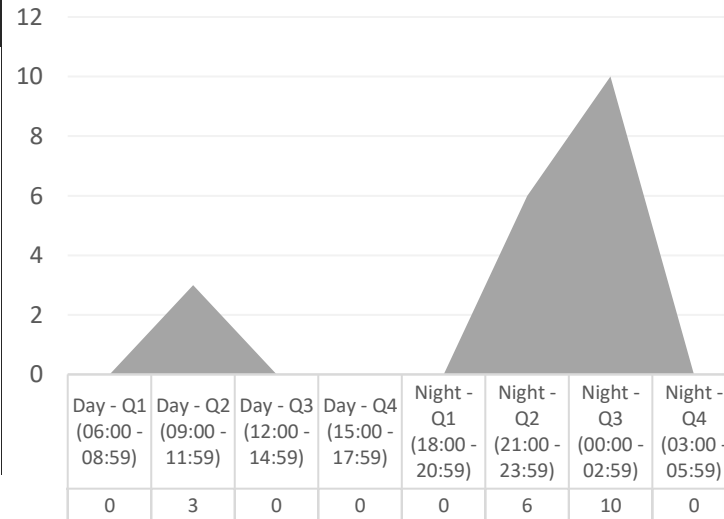
Project Incursion Rate: Length of TM data not available

Breakdown Rate: Length of TM data not available

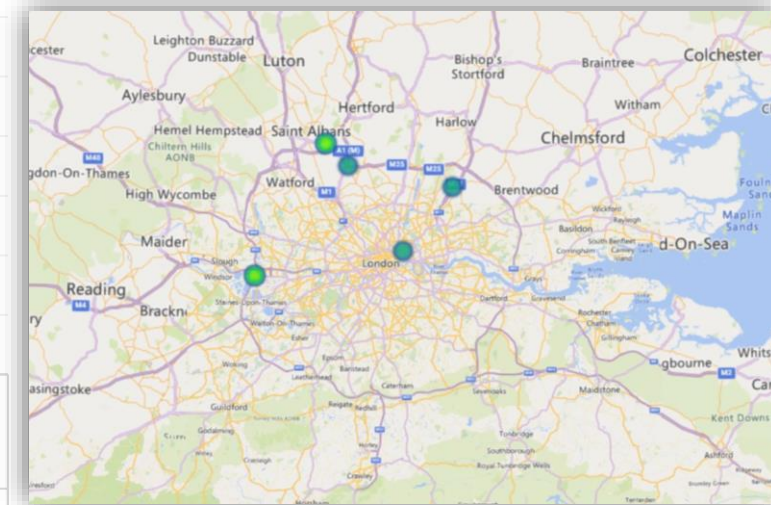
DBFO – M25 (Area 5)



Time Profile of Incursions recorded



Heatmap



Incursions Report

Directorate: Operations

Region: Midlands

3 Month Incursion analysis

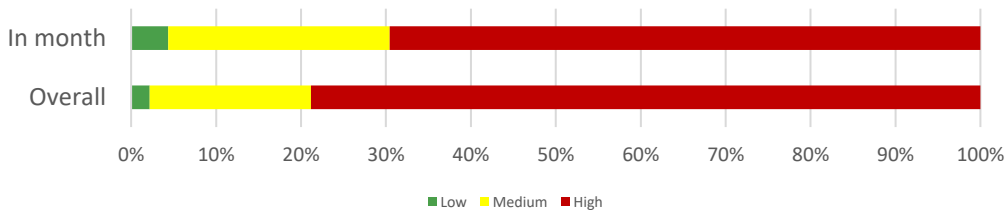
- AD - M&R - Eight a total of 8 incursions have been recorded; with a 300% increase in 'Seeking Benefit' type incursions together with a 300% increase in 'Driver confused' no change from the previous month in Follow in type incursions
- Bottom left – Area Incursion Risk Rating with 'In-month' rating 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

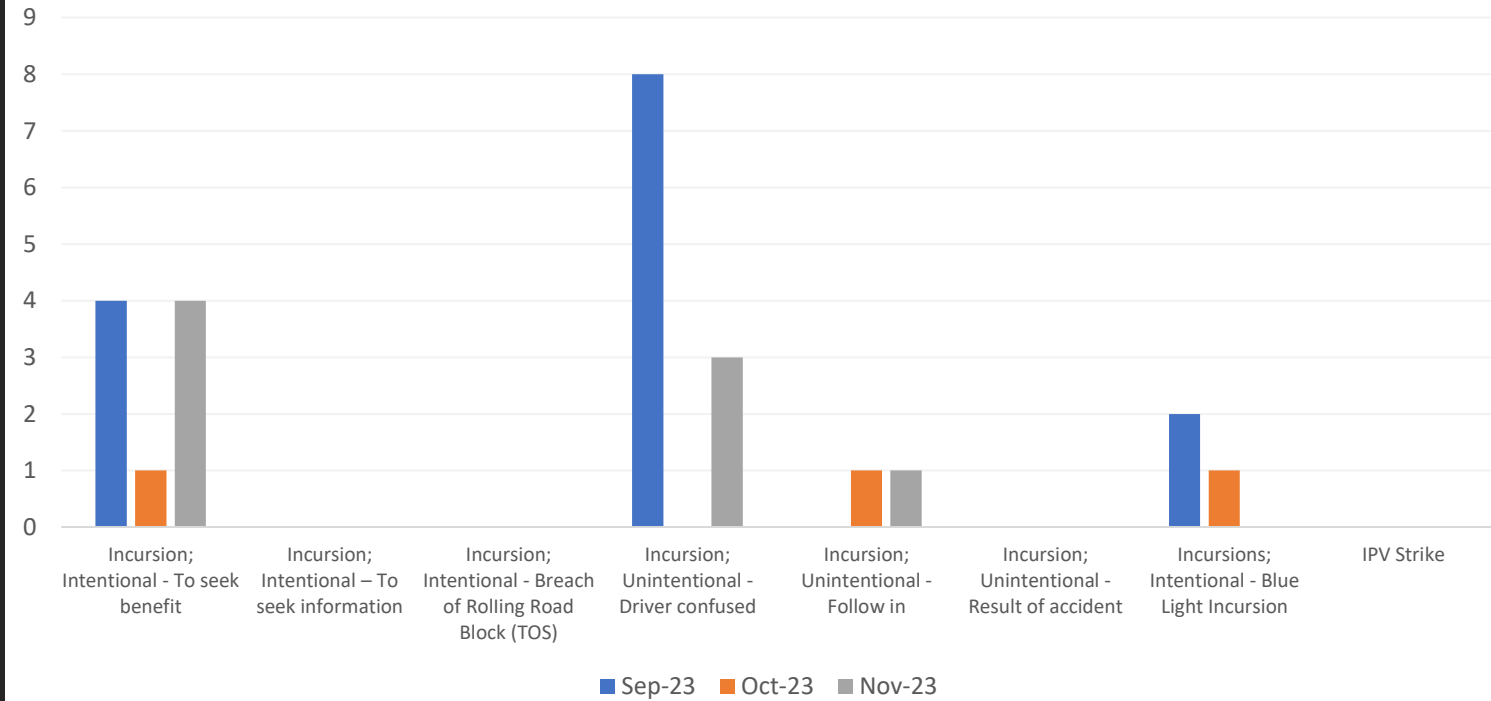


Incursion rate per length of TM (Unknown)

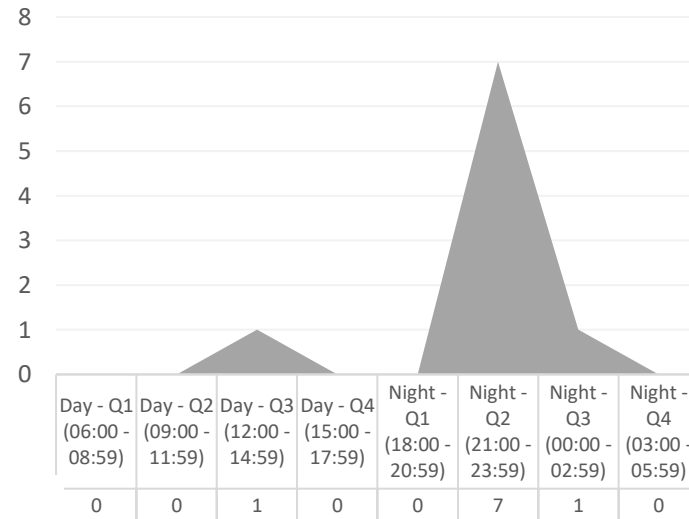
Project Incursion Rate: Length of TM data not available

Breakdown Rate: Length of TM data not available

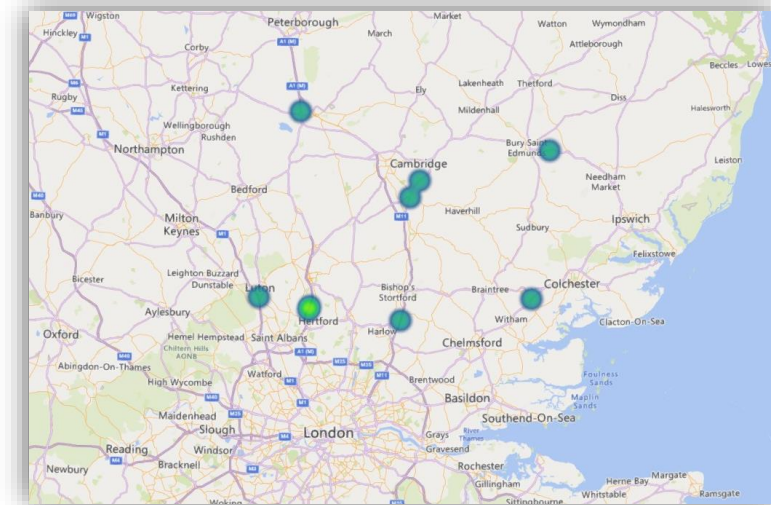
AD - M&R - Eight



Time Profile of Incursions recorded



Heatmap



Incursions Report

Directorate: Operations

Region: Midlands

3 Month Incursion analysis

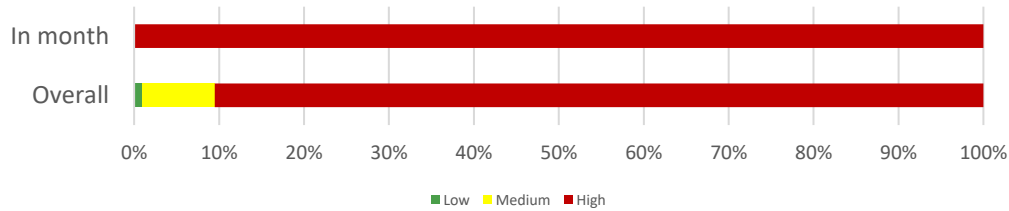
- Area 7 a total of 7 incursions have been recorded; with a 75% increase in 'Seeking Benefit' type incursions together with a type incursions
- Bottom left – Area Incursion Risk Rating with 'In-month' rating being worse than the 'Overall' rating
- Bottom middle – Time profile for 'all' incursion types
- 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

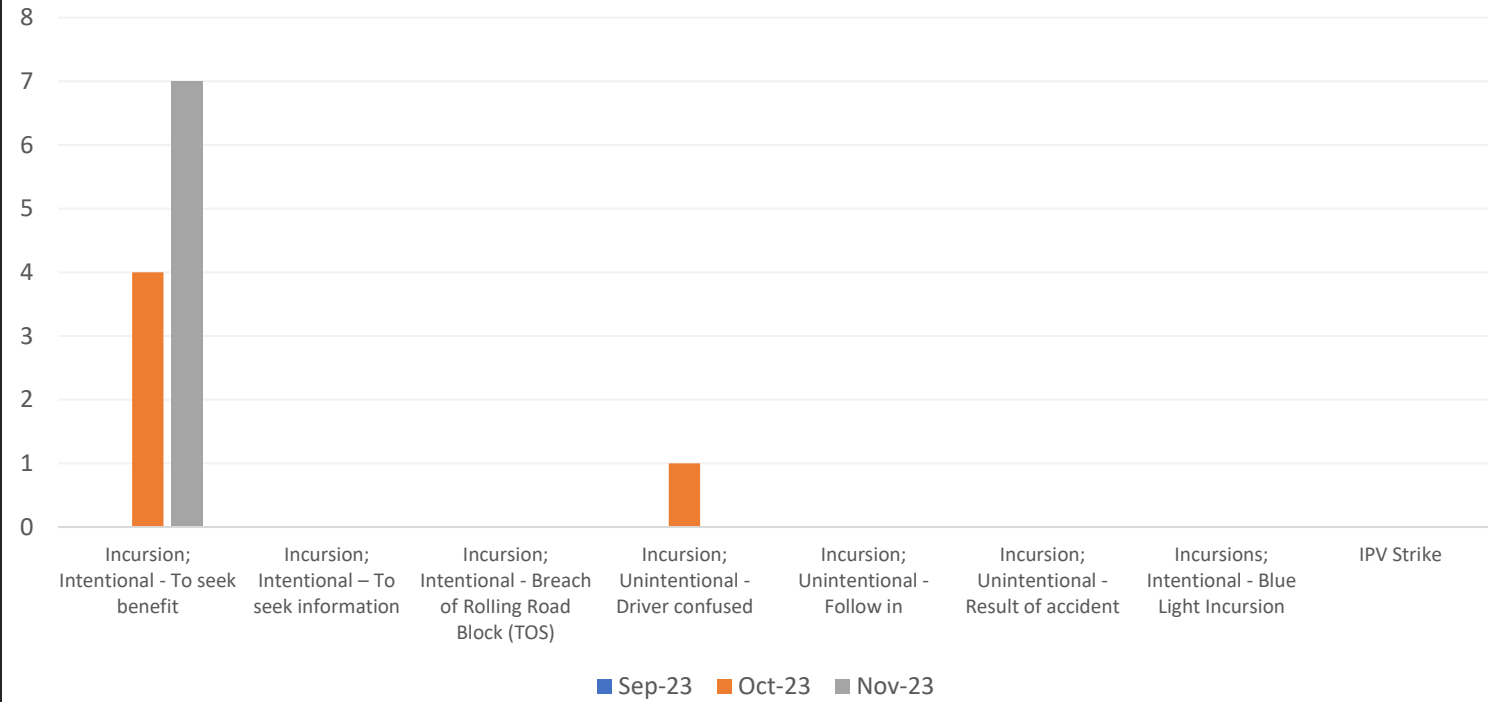


Incursion rate per length of TM (Unknown)

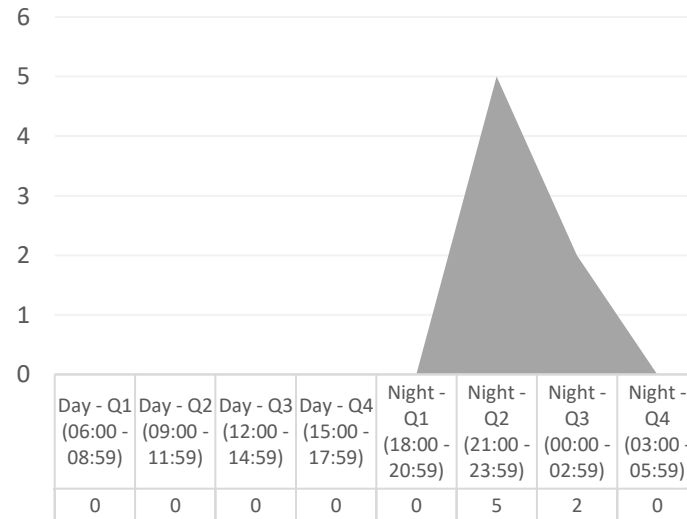
Project Incursion Rate: Length of TM data not available

Breakdown Rate: Length of TM data not available

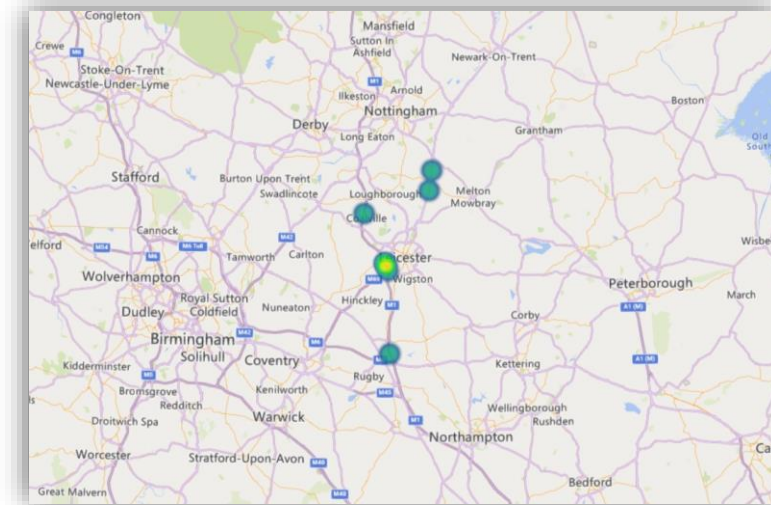
Area 7



Time Profile of Incursions recorded



Heatmap



Incursions Report

Directorate: Operations

Region: North West

3 Month Incursion analysis

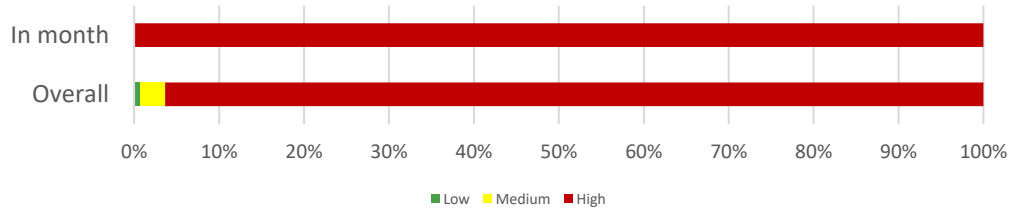
- AD - M&R - Ten a total of 5 incursions have been recorded; with a type incursions together with a no change from the previous month in Result of accident' incursions, with a 50% decrease in 'Seeking Benefit' type incursions
- Bottom left – Area Incursion Risk Rating with 'In-month' rating worse than 'Overall' rating
- Bottom middle – Time profile for 'all' incursion types recorded
- Bottom right – localised heatmap of 'all' incursion types recorded

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

Type of TTM: Not Populated / Hard shoulder closures

* Excluding Breakdown type incursions

Area Incursion Risk Rating

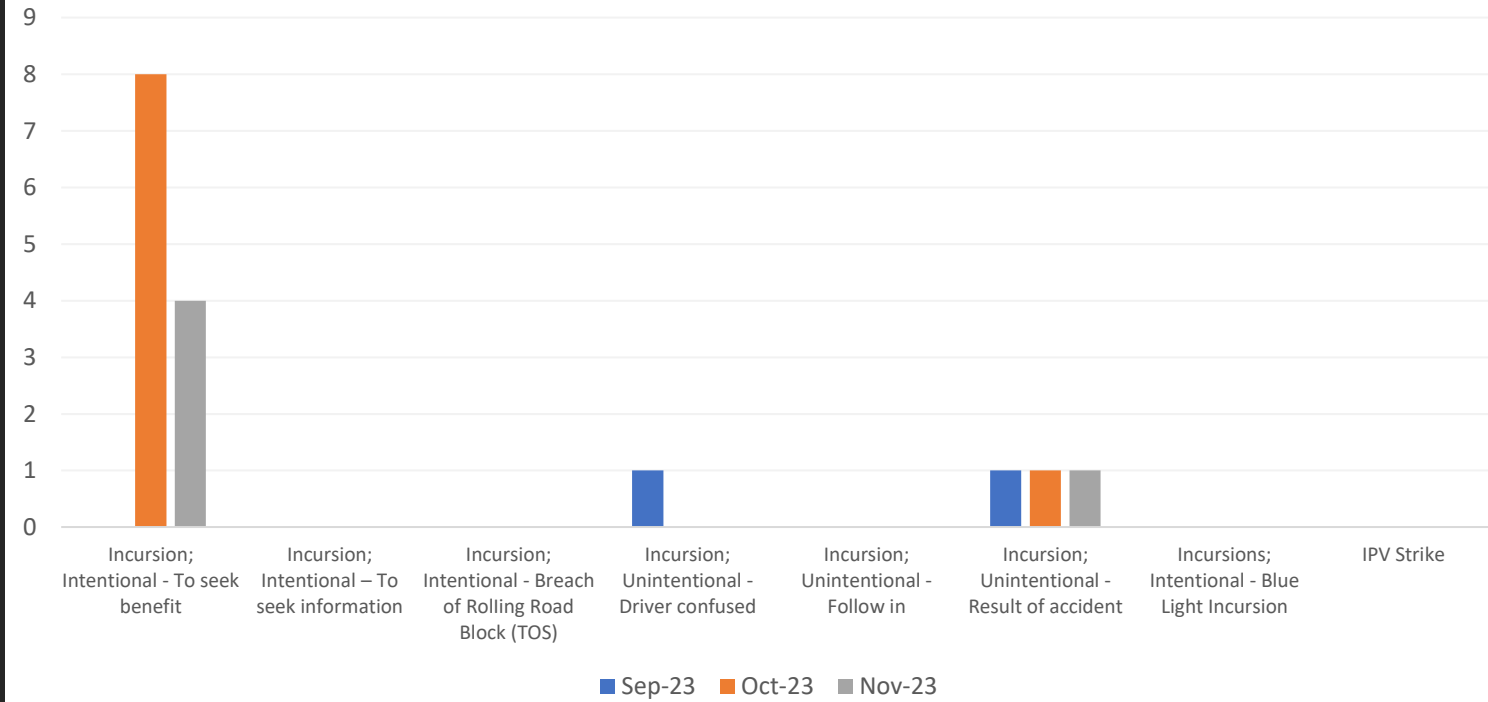


Incursion rate per length of TM (Unknown)

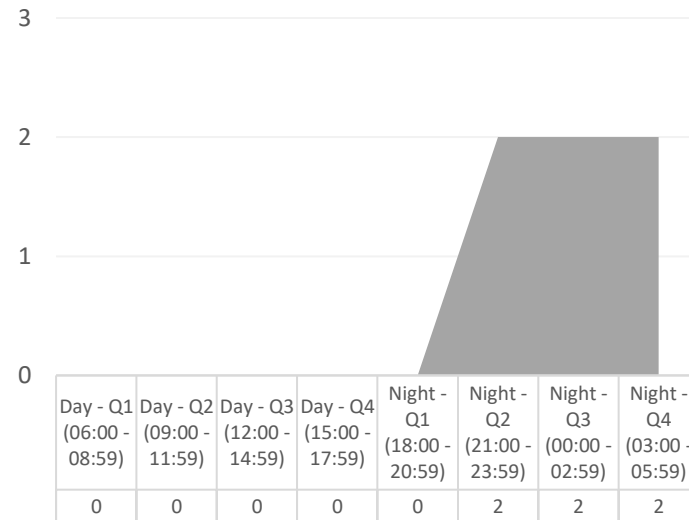
Project Incursion Rate: Length of TM data not available

Breakdown Rate: Length of TM data not available

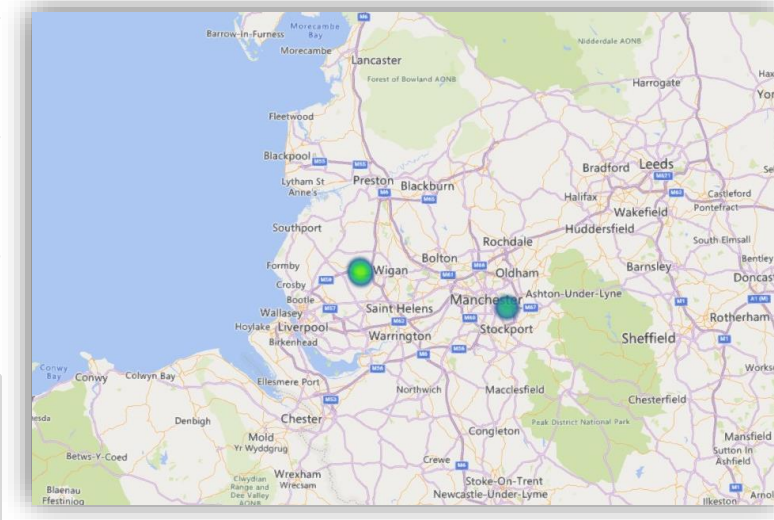
AD - M&R - Ten



Time Profile of Incursions recorded

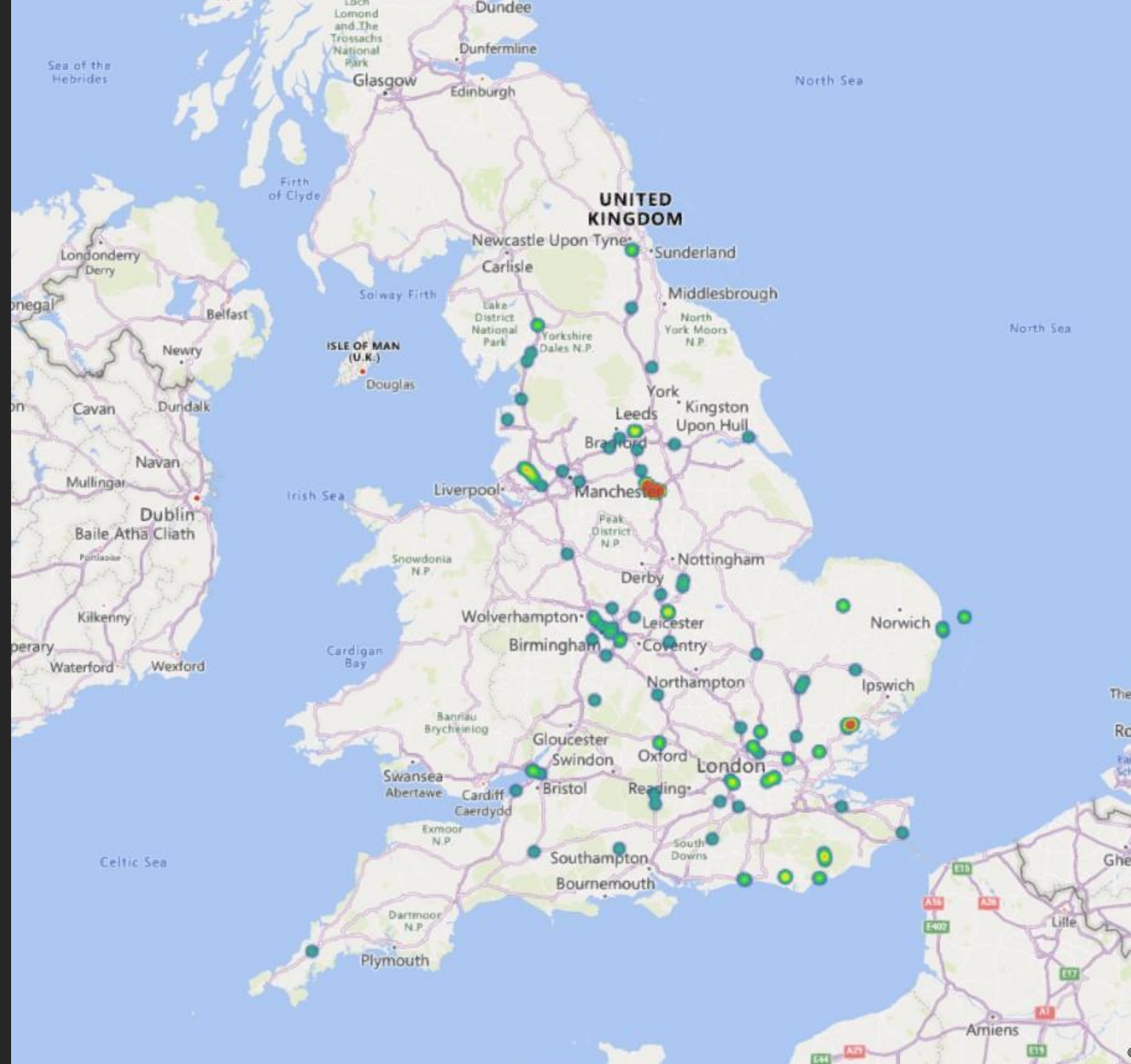


Heatmap



Heatmap of Incursions recorded in November 2023

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



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

