



Public Health
England



Joint Biosecurity Centre

COVID-19 Situational Awareness Summary

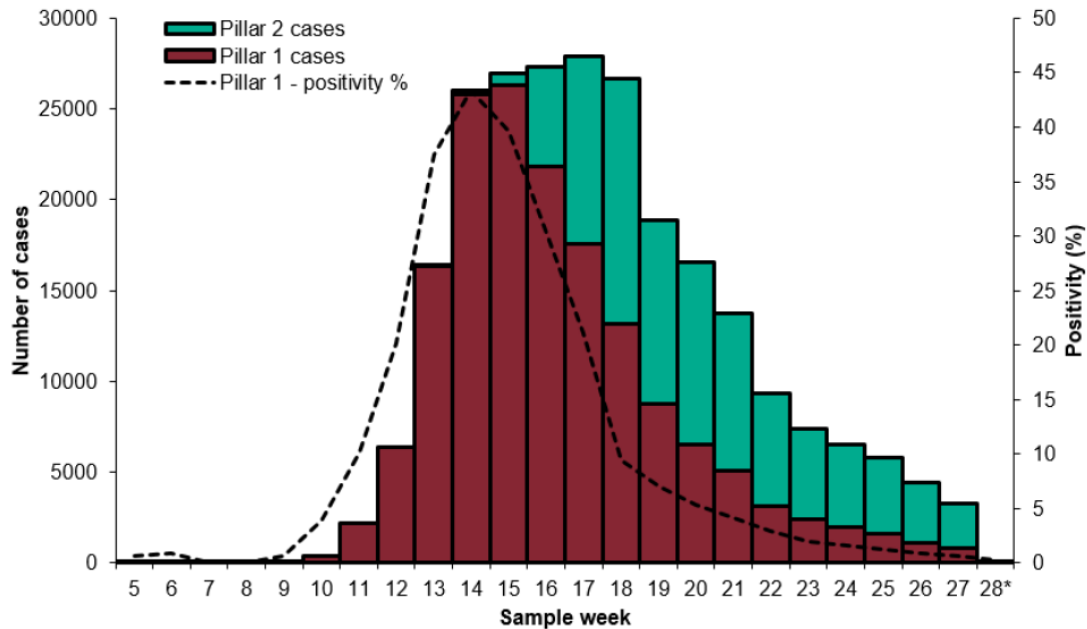
15/07/20

Contents

This situational awareness summary report collates information and intelligence from various sources. The summary will be provided daily and the content will continue to be developed.

- National context and JBC alert level
- High level summary
- Local authority information
 - testing
 - Incidence
 - [REDACTED]
- Hospitalisation
- [REDACTED]
- Regional updates and outbreak reports
 - Overall by geography
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - Other settings
- [REDACTED]
- Nowcast and forecast - R

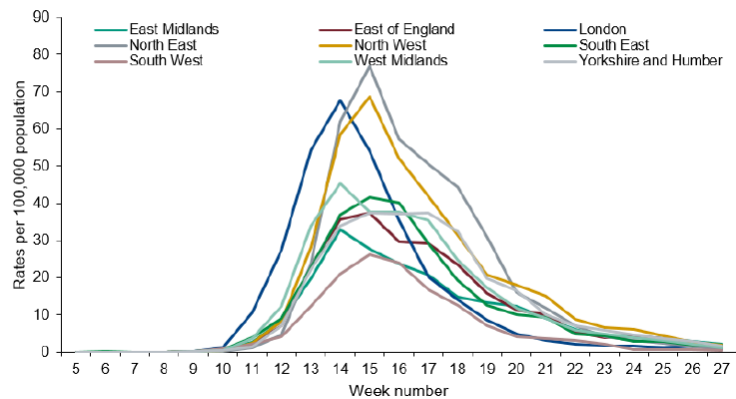
National context



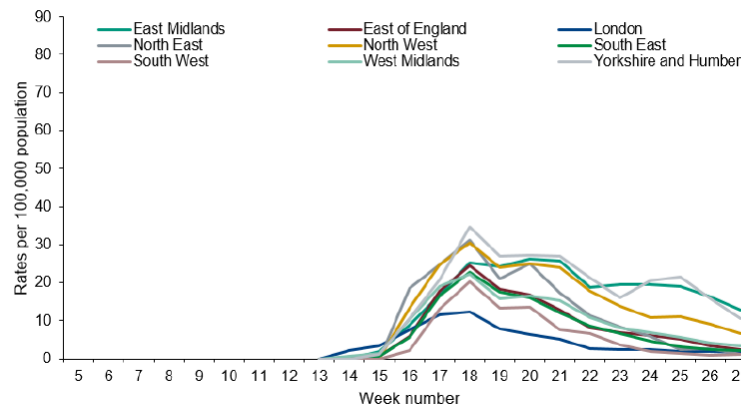
- COVID-19 activity continued to decline or remain stable in England across the majority of surveillance indicators during week 27. There were just over 3,300 cases detected compared to just over 4,400 in week 26.
- Over 75% of cases are now detected through testing outside of hospitals.

Laboratory confirmed COVID-19 cases tested under Pillar 1 (n=161,514) and Pillar 2 (n=84,872), based on sample week with overall positivity for Pillar 1 only (%)

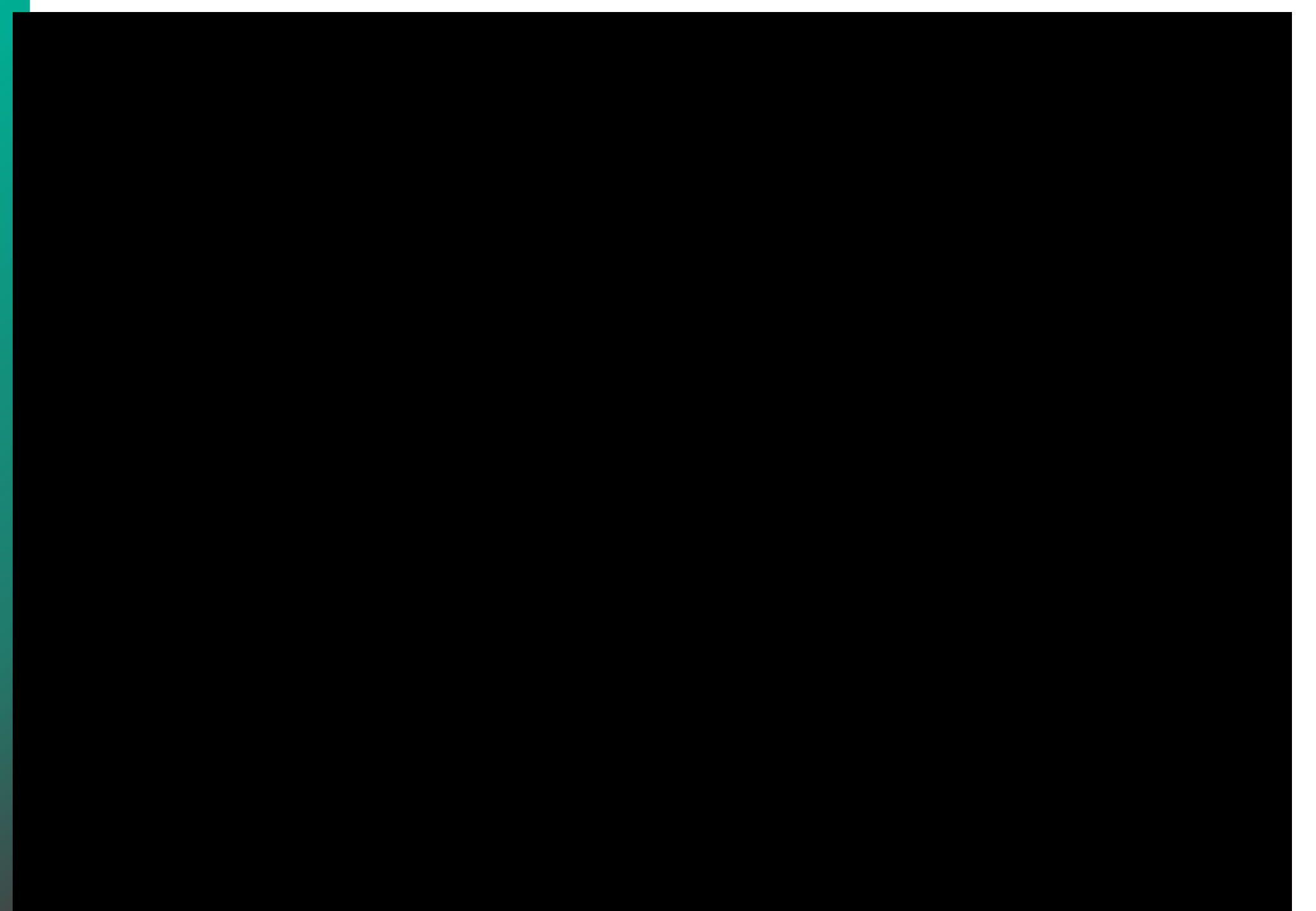
(a)



(b)



Weekly laboratory confirmed COVID-19 case rates per 100,000 population tested under (a) Pillar 1 and (b) Pillar 2, by PHE Centres and sample week



High level summary

List of the Upper Tier Local Authorities (UTLA) with highest incidence rates in 7 days 04 July - 10 July

	Weekly incidence rate from 27 June to 03 July	Weekly incidence rate from 04 July to 10 July	Difference in weekly incidence rate from previous week		Daily incidence rate from 27 June to 03 July (7 day moving average)	Daily incidence rate from 04 July to 10 July (7 day moving average)	Difference in daily incidence rate from previous week	
Leicester	117.4	117.4	0	→	16.8	16.8	0	→
Blackburn with Darwen	29.5	42.3	12.8	↑	4.2	6	1.8	↑
Rochdale	30.9	38.6	7.7	↑	4.4	5.5	1.1	↑
Herefordshire, County of	1.6	37	35.4	↑	0.2	5.3	5.1	↑
Bradford	37.6	34.3	-3.3	↓	5.4	4.9	-0.5	↓
Peterborough	13.4	32.8	19.4	↑	1.9	4.7	2.8	↑
Kirklees	33.7	28.9	-4.8	↓	4.8	4.1	-0.7	↓
Oldham	21.2	20.4	-0.8	↓	3	2.9	-0.1	↓
Luton	12.6	20.1	7.5	↑	1.8	2.9	1.1	↑
Calderdale	12.4	20	7.6	↑	1.8	2.9	1.1	↑
England	6.8	6.8	0	→	1	1	0	→

Data for positive cases with specimen dates between **27 June and 10 July 2020**

Data definitions (see next slide for additional data)

Weekly incidence rate = total confirmed cases in the most recent 7 day period per 100,000 population

Daily incidence rate, 7 day moving average (7-DMA) = average number of confirmed cases per day for the 7 day period per 100,000 population

Individuals tested per day per 100,000 (7-DMA) = Number of individuals tested per 100,000 population

Percentage individuals test positive (7-DMA) = Percentage of individuals tested with specimen dates in the seven day period who have been positive for SARS-CoV2

Community outbreaks = Number of outbreaks reported to PHE during the 7 day period, excluding those reported from secondary healthcare and care home settings.

High level summary

Local authority areas of interest – this table contains the areas flagged in a set of key indicators which should be looked at together.

	Individuals tested per day per 100,000 population (7 day moving average)		Percentage individuals test positive (7 day moving average)		Daily incidence per 100,000 population (7 day moving average)		Daily incidence per 100,000 population (14 day moving average)		Daily exceedance score	Community outbreaks (Last 7 days)	National Response Level
Leicester	368.3	↑	4.6%	↓	16.8	→	16.8		G	[REDACTED]	Intervention
Pendle	90.2	↑	10.9%	↑	9.8	↑	5.9		R		
Blackburn with Darwen	104.7	↑	5.8%	↑	6.0	↑	5.1		R		Concern
Rochdale	119.7	↑	4.6%	↑	5.5	↑	5.0		G		Concern
Herefordshire, County of	112.0	↑	4.7%	↑	5.3	↑	2.8		R		
Bradford	119.5	↑	4.1%	↓	4.9	↓	5.1		G		Enhanced support
Peterborough	101.3	↑	4.6%	↑	4.7	↑	3.3		A		
Oadby and Wigston	255.6	↓	1.7%	↓	4.3	↓	4.8		G		
Kirklees	100.3	↑	4.1%	↓	4.1	↓	4.5		G		Enhanced support
East Staffordshire	77.1	↑	5.3%	↑	4.1	↑	2.7		R		
Northampton	109.2	↑	2.9%	↑	3.2	↑	2.9		R		
Kettering	94.4	↑	3.4%	↑	3.2	↑	2.6		R		
Braintree	81.5	↑	3.7%	↑	3.0	↑	1.7		R		
Calderdale	85.4	↓	3.3%	↑	2.9	↑	2.3		G		
Oldham	96.0	↑	3.0%	↓	2.9	↓	3.0		G		Concern
Luton	92.7	↓	3.1%	↑	2.9	↑	2.3		A		
Eastbourne	91.8	↓	3.0%	↑	2.8	↑	2.2		A		
Carlisle	81.8	↑	3.4%	↑	2.8	↑	2.6		R		
Wakefield	97.6	↑	2.6%	↑	2.6	↑	2.0		A		
Bolton	77.2	↓	3.2%	↑	2.5	→	2.5		G		
England	84.6	↑	1.2%	→	1.0	→	1.0				

Data for specimens taken/outbreaks reported between **04 and 10 July** (7 day) and **27 June and 10 July** (14 day).

Arrows demonstrate how figures compare to the equivalent figure as of **3 July**.

Percentage positive: Red >7.5%, Amber >4 to 7.5%

Daily incidence rate: Red >7.1 cases per 100,000 per week, Amber >3.5 per 100,000 per week

Exceedances RAG: refer to slide 30

These areas are currently under investigation by local public health protection teams and DsPH. Testing access is being increased including Bradford. These areas are also associated with workplace outbreaks which have contributed to the increase in infection rate

High level summary

Local authority areas with the highest daily 7 day incidence that have risen from the previous week

	Individuals tested per day per 100,000 population (7 day moving average)	Percentage individuals test positive (7 day moving average)	Daily incidence per 100,000 population (7 day moving average)	Daily incidence per 100,000 population (14 day moving average)	Daily exceedance score	Community outbreaks (Last 7 days)	National Response Level
Pendle	90.2 ↑	10.9% ↑	9.8 ↑	5.9	R		
Blackburn with Darwen	104.7 ↑	5.8% ↑	6.0 ↑	5.1	R		
Rochdale	119.7 ↑	4.6% ↑	5.5 ↑	5.0	G		
Herefordshire, County of	112.0 ↑	4.7% ↑	5.3 ↑	2.8	R		
Peterborough	101.3 ↑	4.6% ↑	4.7 ↑	3.3	A		
East Staffordshire	77.1 ↑	5.3% ↑	4.1 ↑	2.7	R		
Northampton	109.2 ↑	2.9% ↑	3.2 ↑	2.9	R		
Kettering	94.4 ↑	3.4% ↑	3.2 ↑	2.6	R		
Braintree	81.5 ↑	3.7% ↑	3.0 ↑	1.7	R		
Calderdale	85.4 ↓	3.3% ↑	2.9 ↑	2.3	G		
Luton	92.7 ↓	3.1% ↑	2.9 ↑	2.3	A		
Eastbourne	91.8 ↓	3.0% ↑	2.8 ↑	2.2	A		
Carlisle	81.8 ↑	3.4% ↑	2.8 ↑	2.6	R		
Wakefield	97.6 ↑	2.6% ↑	2.6 ↑	2.0	A		
Dartford	60.5 ↓	4.1% ↑	2.5 ↑	2.1	R		
East Northamptonshire	83.4 ↓	2.9% ↑	2.4 ↑	1.7	A		
Nuneaton and Bedworth	137.1 ↑	1.6% ↑	2.2 ↑	1.8	G		
Salford	95.9 ↑	2.2% ↑	2.1 ↑	1.7	A		
Charnwood	136.6 ↓	1.5% →	2.1 ↑	2.1	G		
Cannock Chase	88.2 ↑	2.3% ↑	2.0 ↑	1.6	R		
England	84.6 ↑	1.2% →	1.0 →	1.0			

Data for specimens taken/outbreaks reported between **04 and 10 July** (7 day) and **27 June and 10 July** (14 day).

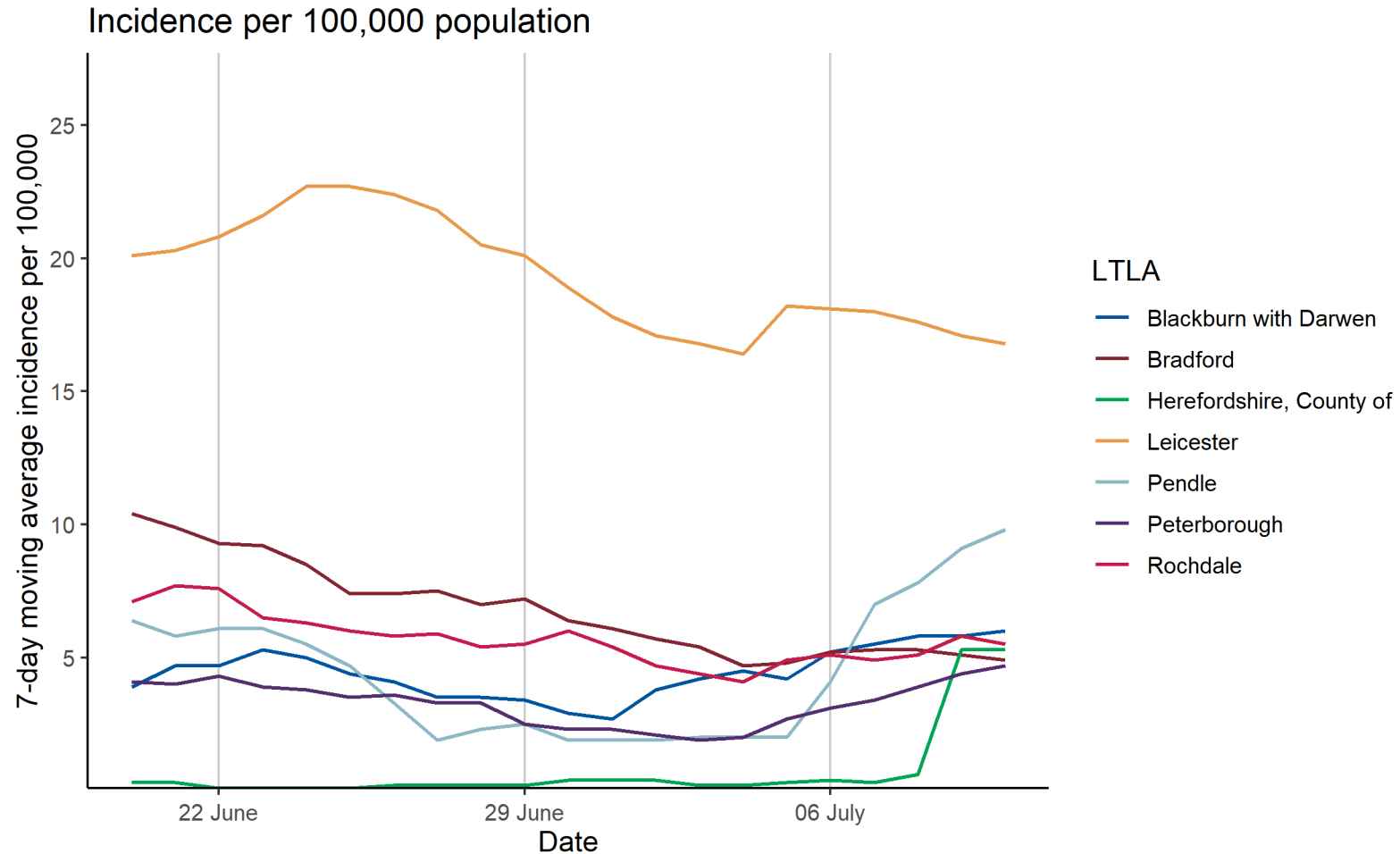
Arrows demonstrate how figures compare to the equivalent figure as of 3 July.

Percentage positive: Red >7.5%, Amber >4 to 7.5%

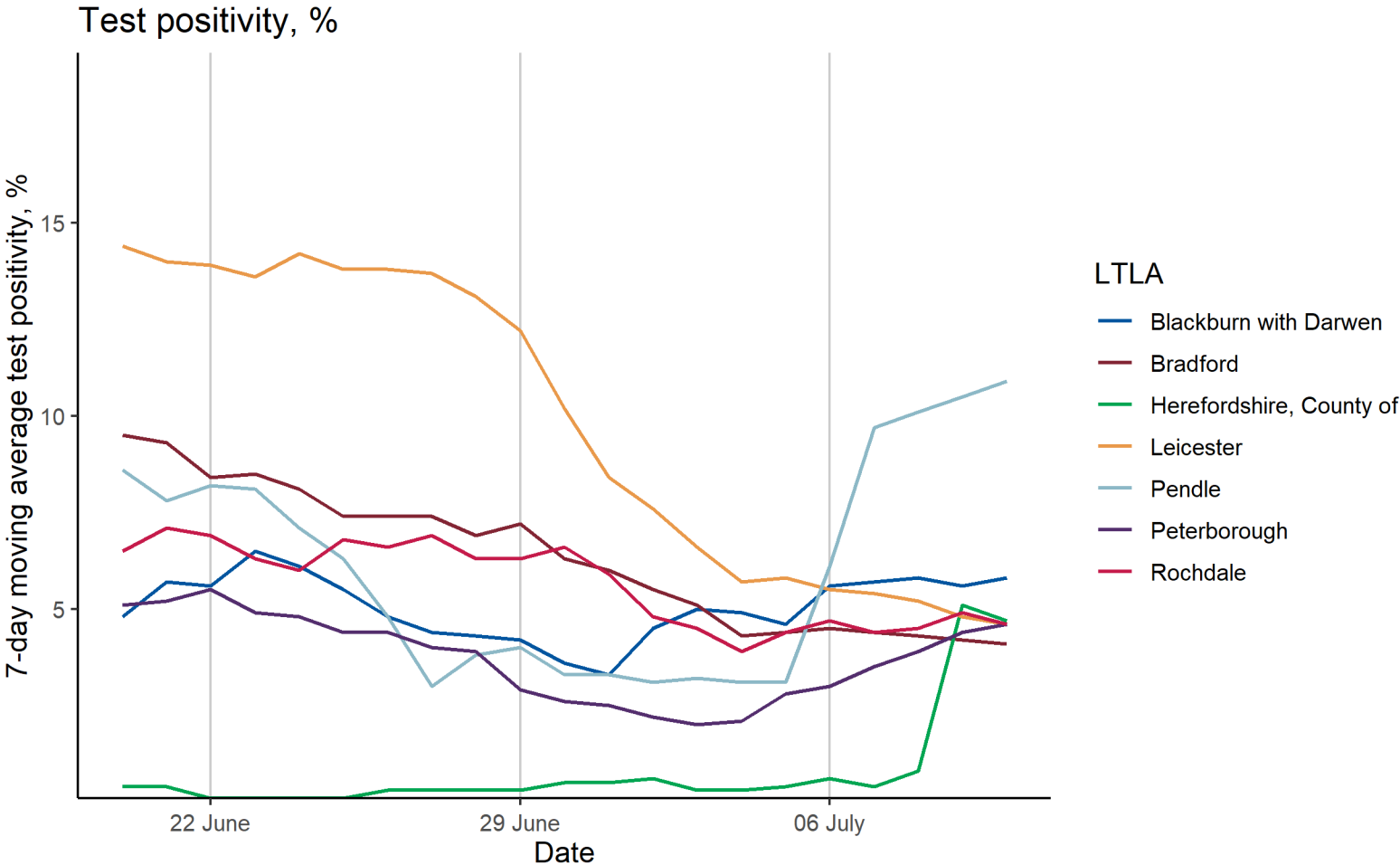
Daily incidence rate: Red >7.1 cases per 100,000 per week, Amber >3.5 per 100,000 per week

Exceedances RAG: refer to slide

Incidence rate across both pillars 1 and 2 (seven-day moving average)



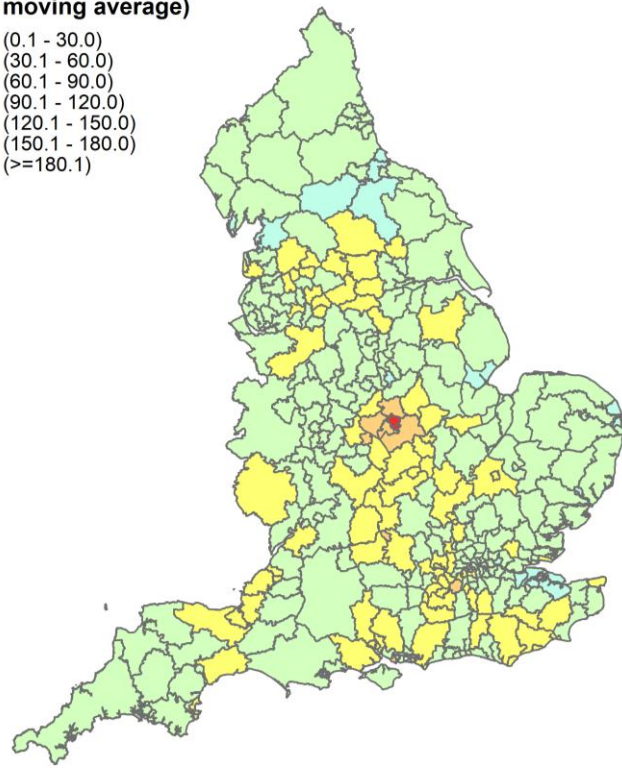
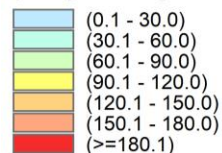
Percentage of individuals testing positive across both pillars 1 and 2 (seven-day moving average)



Testing: Individuals tested per 100,000 population per day

Data for specimens taken between **04 and 10 July** (7 day) and **27 June and 10 July** (14 day)

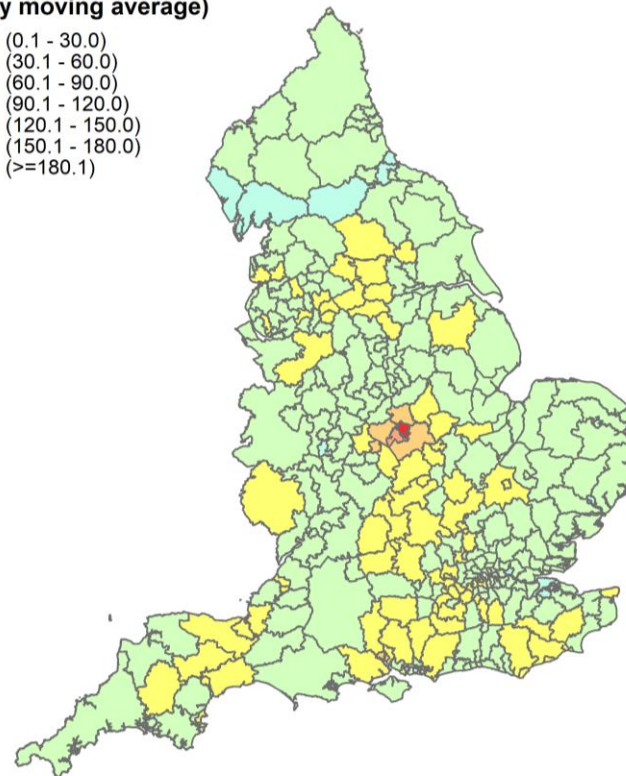
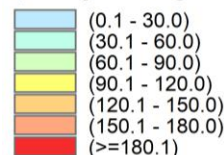
Average number of individuals tested per 100,000 per day (7 day moving average)



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Local Authorities with the highest rate			
	Rate		Rate
Leicester	368.3	Gosport	132.5
Oadby and Wigston	255.6	Harborough	132.4
Blaby	144.2	Elmbridge	126.1
Nuneaton and Bedworth	137.1	Hinckley and Bosworth	121.9
Charnwood	136.6	Oxford	120.1

Average number of individuals tested per 100,000 per day (14 day moving average)



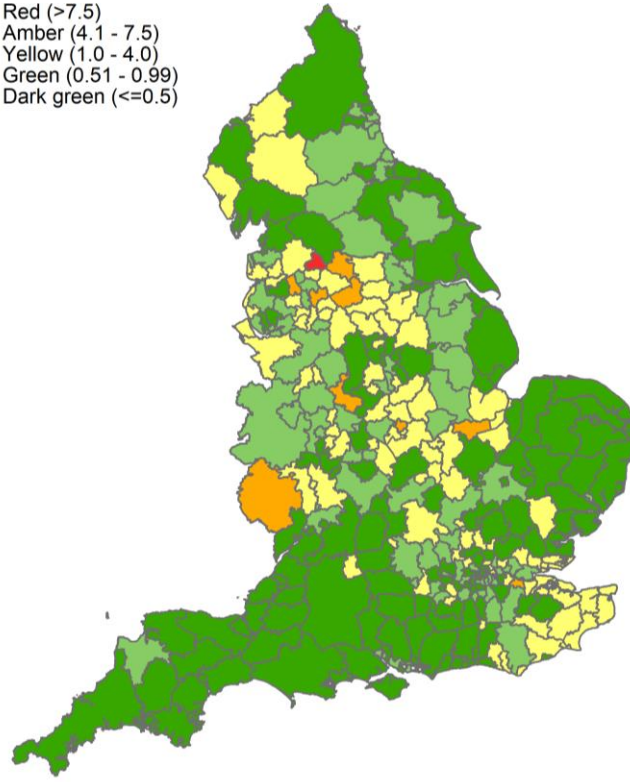
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Local Authorities with the highest rate			
	Rate		Rate
Leicester	311.1	Hinckley and Bosworth	126.9
Oadby and Wigston	261.4	Nuneaton and Bedworth	125
Blaby	155.4	Southampton	120.2
Charnwood	137.5	Oxford	
Harborough	129	Cambridge	

Testing: Individuals testing positive per 100 tests

Data for specimens taken between **04 and 10 July** (7 day) and **27 June and 10 July** (14 day)

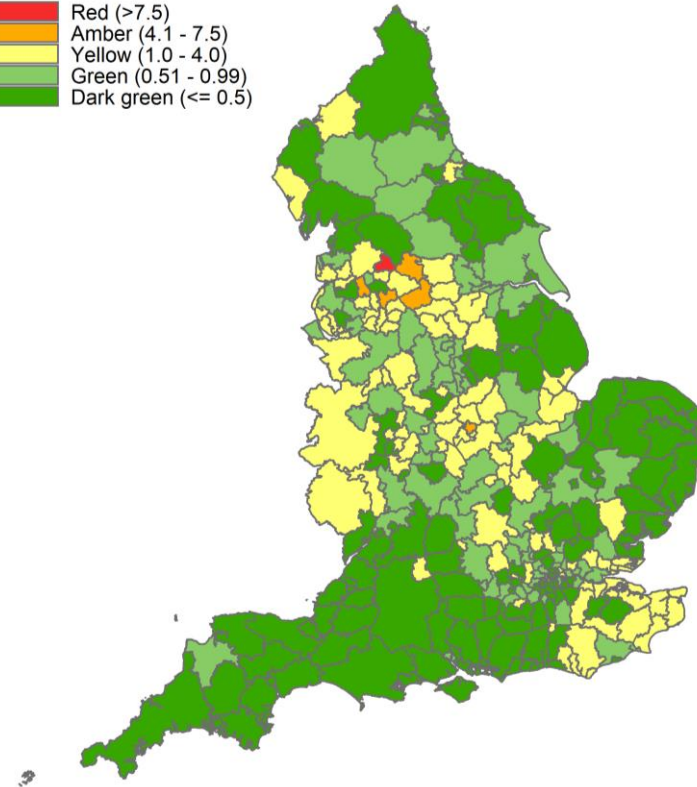
Percentage of individuals testing positive (7 day) RAG



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Local Authorities with the highest percentages			
	%		%
Pendle	10.9	Peterborough	4.6
Blackburn with Darwen	5.8	Leicester	4.6
East Staffordshire	5.3	Kirklees	4.1
Herefordshire, County of	4.7	Bradford	4.1
Rochdale	4.6	Dartford	4.1

Percentage of individuals testing positive (14 day) RAG

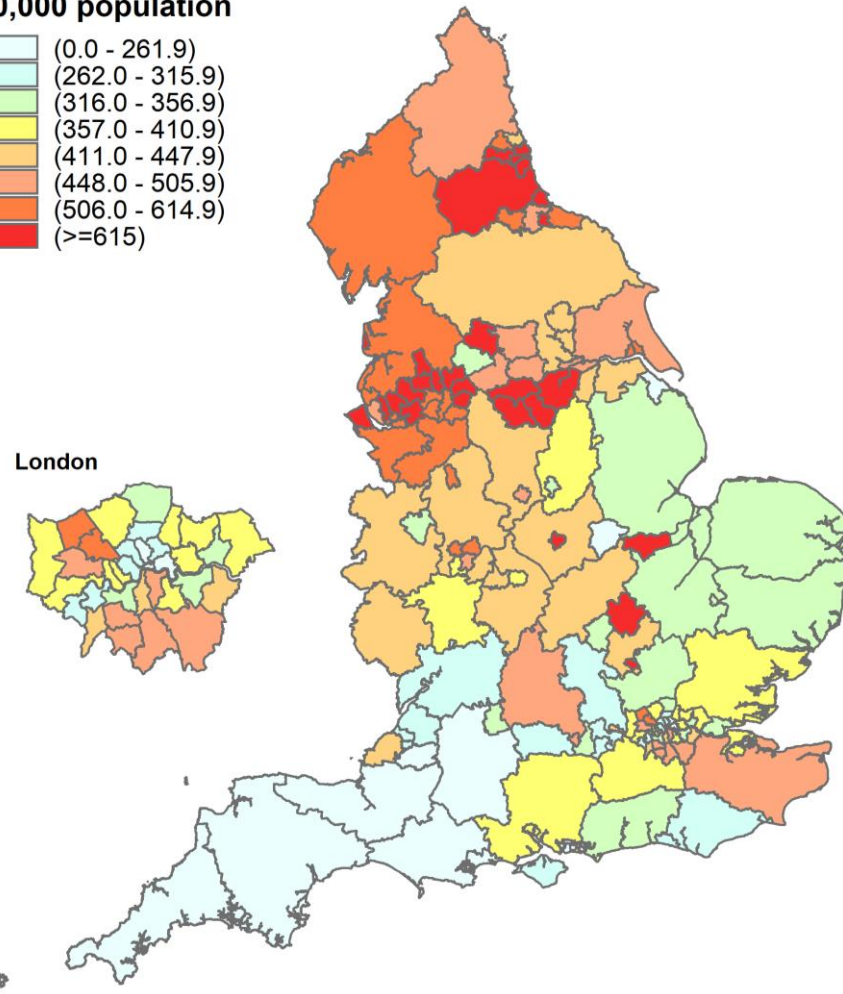
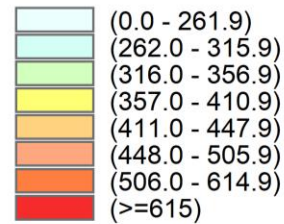


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Local Authorities with the highest percentages			
	%		%
Pendle	7.8	Rochdale	4.6
Leicester	5.4	East Staffordshire	3.5
Blackburn with Darwen	5.4	Peterborough	3.4
Kirklees	4.6	Oldham	
Bradford	4.6	Bolton	

Cumulative incidence rates (up to 10 July)

Cumulative incidence rate per 100,000 population



Local Authorities with the highest cumulative rate	
	Rate
Leicester	1207.1
Bradford	811.5
Oldham	798.3
Barnsley	781.4
Rochdale	745.5
Bedford	740
Blackpool	738.7
Rotherham	722
Blackburn with Darwen	716.4
Sheffield	693.6
Tameside	680.3
Middlesbrough	679.5
Bury	675.9
Knowsley	667.2
Luton	665.1

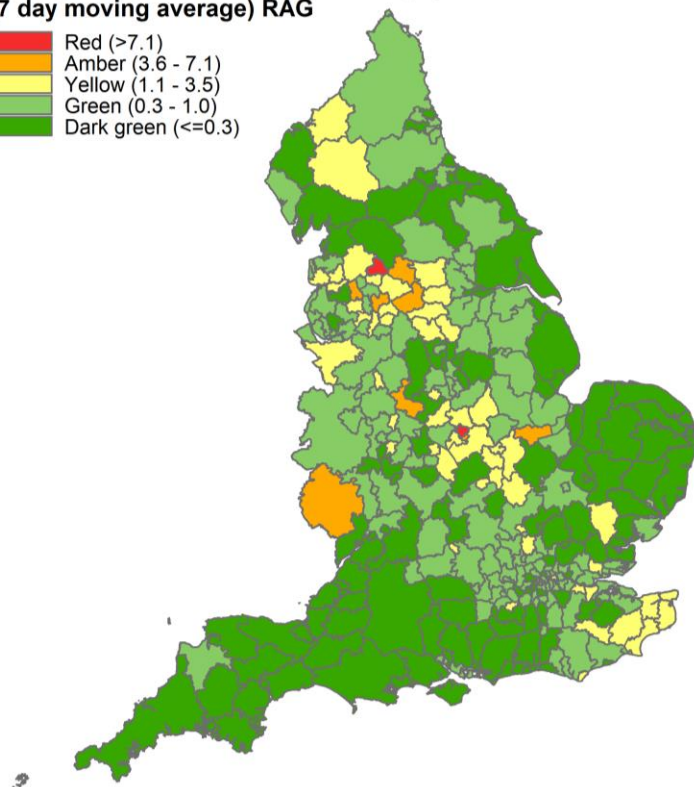
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Cumulative rate of Pillar 1 and Pillar 2 COVID-19 cases (per 100,000) by upper-tier local authority in England* (n=241,585)
 Excludes 8,297 COVID-19 cases for whom geographical information is to be confirmed.

Average daily incidence rates per 100,000 population by LA

Data for specimens taken between **04 and 10 July** (7 day) and **27 June and 10 July** (14 day)

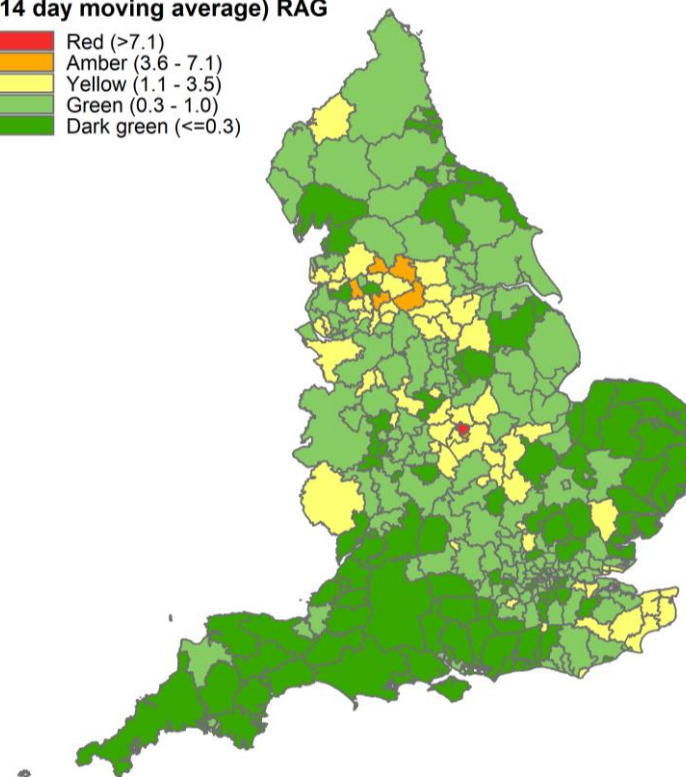
Average daily incidence per 100,000 population (7 day moving average) RAG



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Local Authorities with the highest rate			
Rate		Rate	
Leicester	16.8	Bradford	4.9
Pendle	9.8	Peterborough	4.7
Blackburn with Darwen	6	Oadby and Wigston	4.3
Rochdale	5.5	Kirklees	4.1
Herefordshire, County of	5.3	East Staffordshire	4.1

Average daily incidence per 100,000 population (14 day moving average) RAG

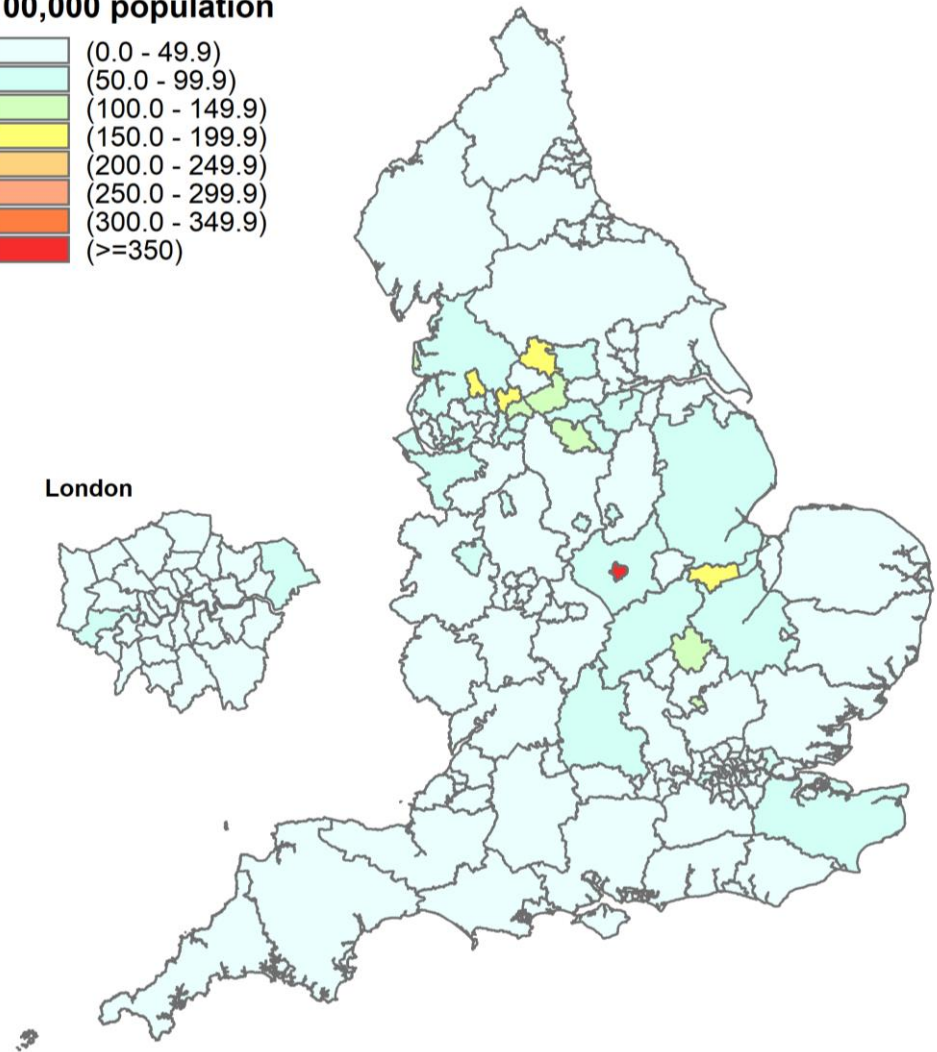
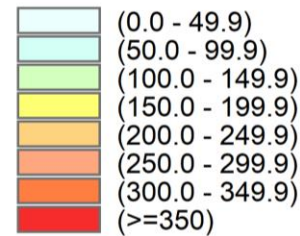


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Local Authorities with the highest rate			
Rate		Rate	
Leicester	16.8	Oadby and Wigston	4.8
Pendle	5.9	Kirklees	4.5
Bradford	5.1	Peterborough	3.3
Blackburn with Darwen	5.1	Rotherham	
Rochdale	5	Oldham	

Cumulative incidence rates under 18s (up to 10 July)

Cumulative incidence rate U18s per 100,000 population

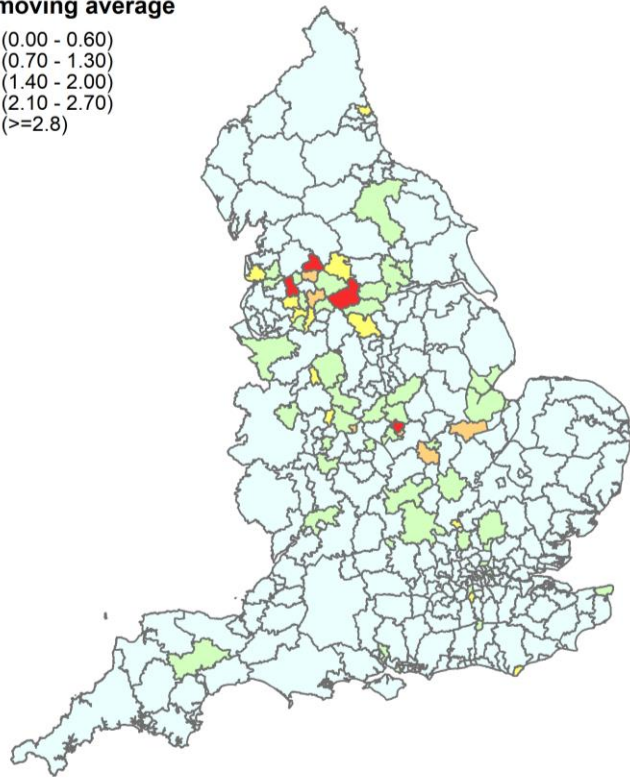


Local Authorities with the highest cumulative rate	
	Rate
Leicester	363.1
Bradford	196.5
Peterborough	174
Rochdale	165.1
Blackburn with Darwen	150.7
Luton	127.2
Kirklees	115.8
Sheffield	114
Oldham	111.1
Blackpool	110.7

Cumulative rate of Pillar 1 and Pillar 2 COVID-19 cases (per 100,000) by upper-tier local authority in England* (n=5,896)
 Excludes 237 COVID-19 cases for whom geographical information is to be confirmed.

Average daily incidence rates under 18s per 100,000 population by LA

Incidence Rate U18s, Per 100,000 population
7 day moving average

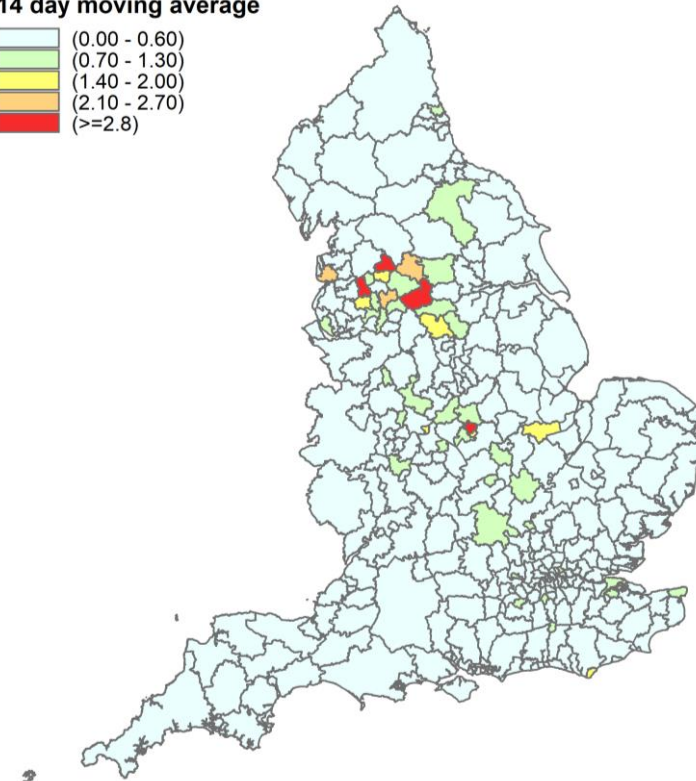
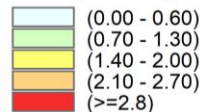


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Local Authorities with the highest rate			
	Rate		Rate
Pendle	8.6	Kettering	2.5
Leicester	8.2	Oadby and Wigston	2.5
Blackburn with Darwen	5.2	Rochdale	2.2
Kirklees	3	Peterborough	2.2
Tamworth	2.6	Burnley	2.1

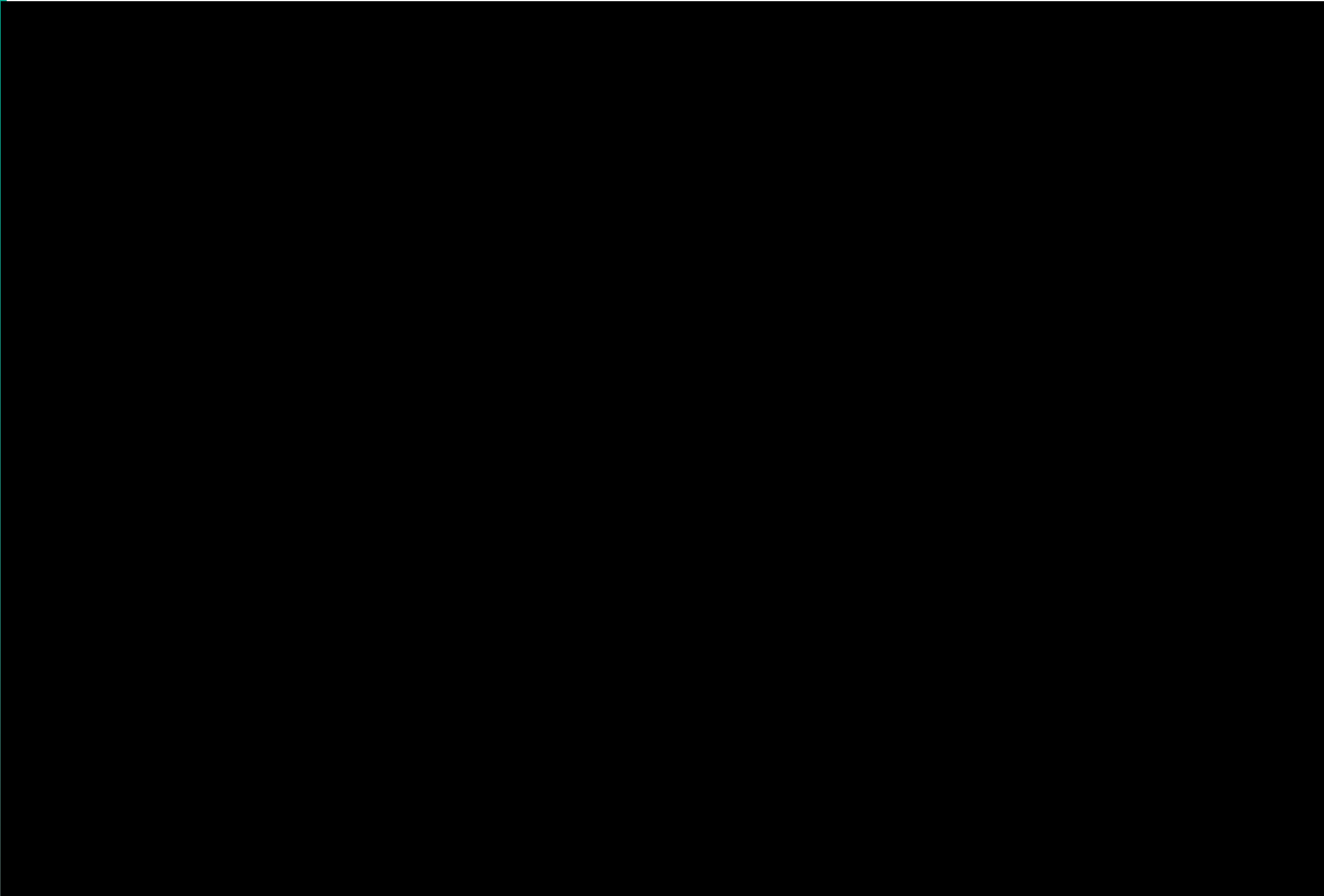
Data for specimens taken between 04 and 10 July (7 day) and 27 June and 10 July (14 day)

Incidence Rate U18s, Per 100,000 population
14 day moving average

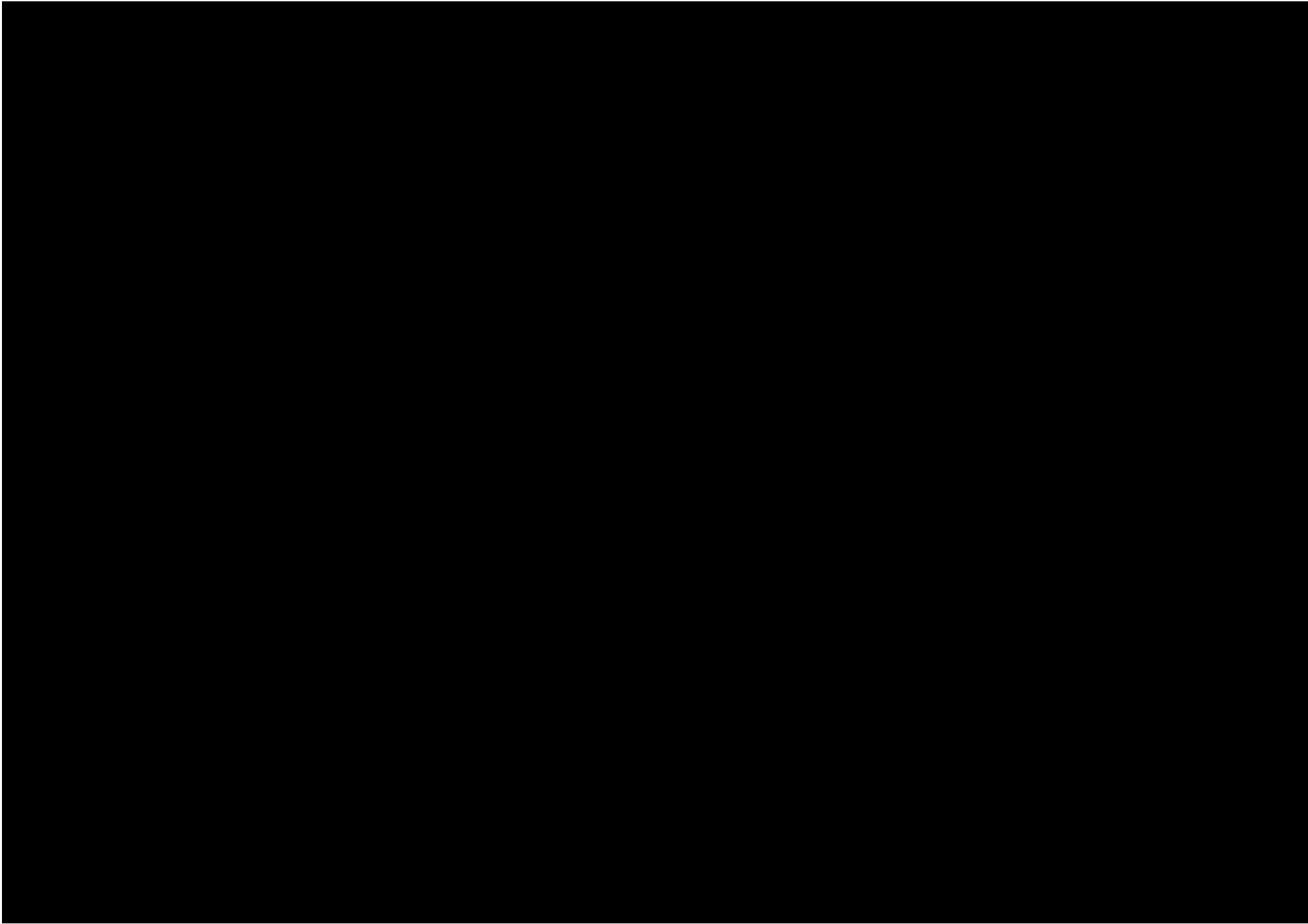


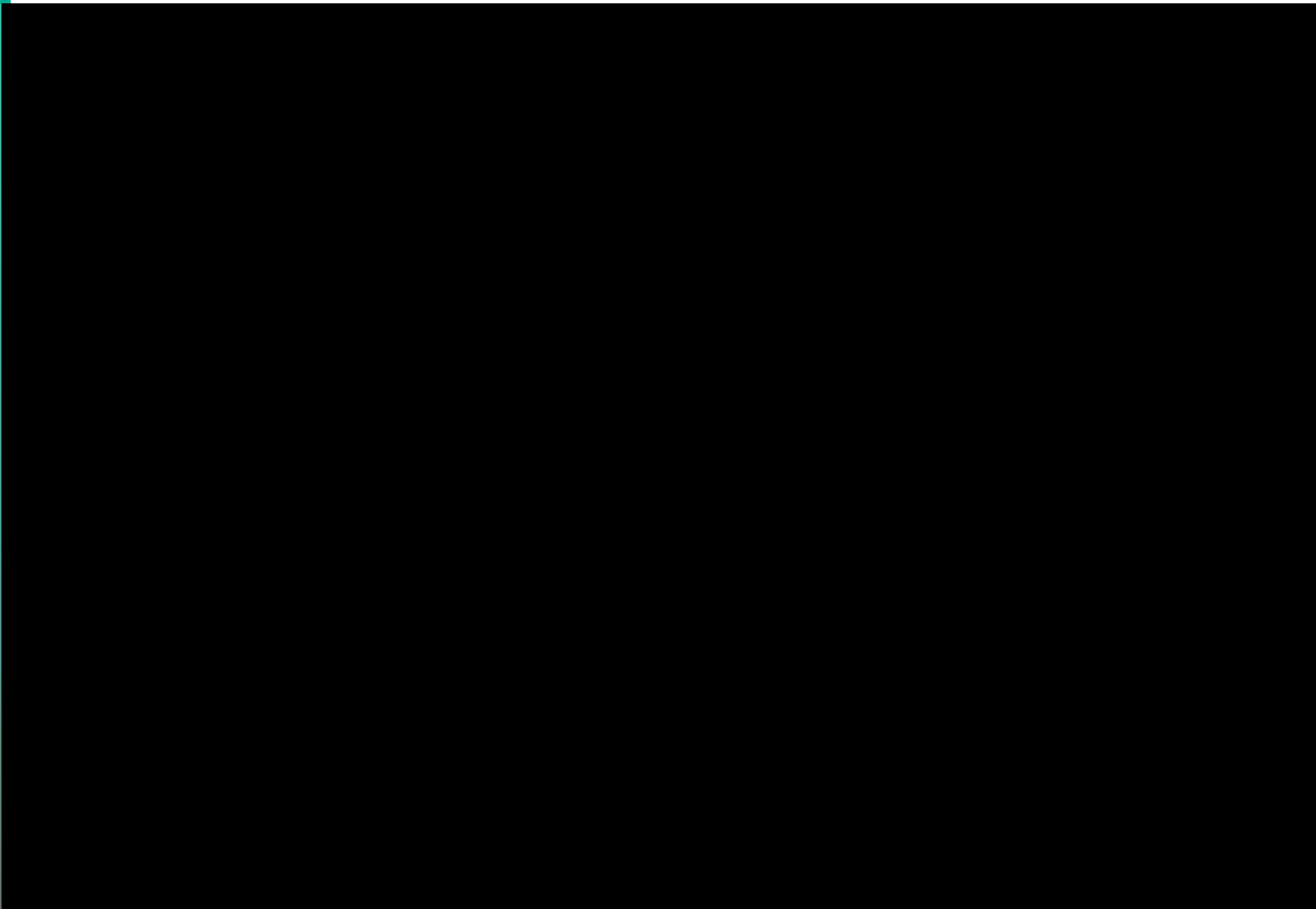
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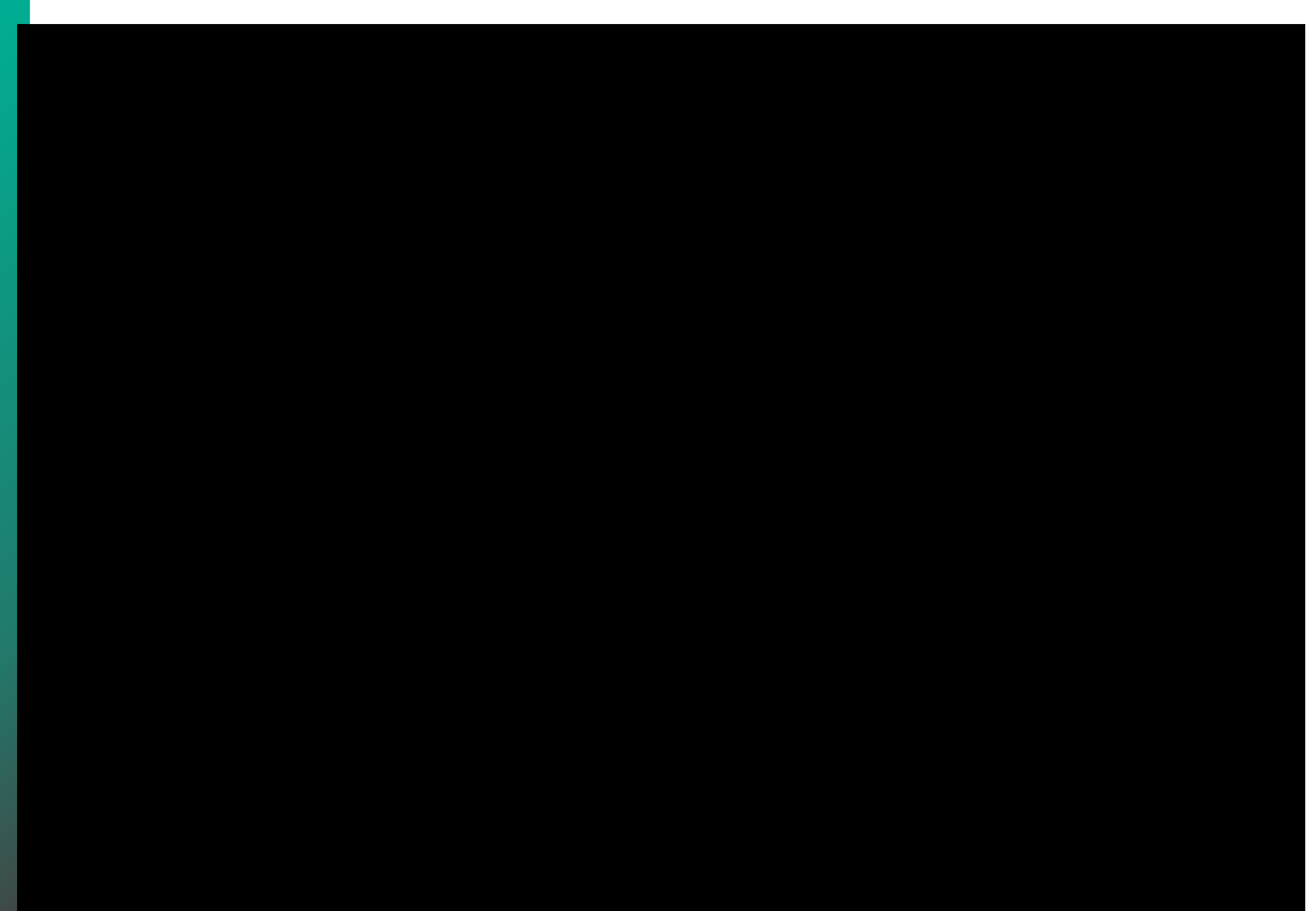
Local Authorities with the highest rate			
	Rate		Rate
Leicester	8.1	Fylde	2.5
Pendle	4.3	Rochdale	2.2
Blackburn with Darwen	3.7	Sheffield	1.9
Kirklees	3.4	Oadby and Wigston	
Bradford	2.6	Tamworth	





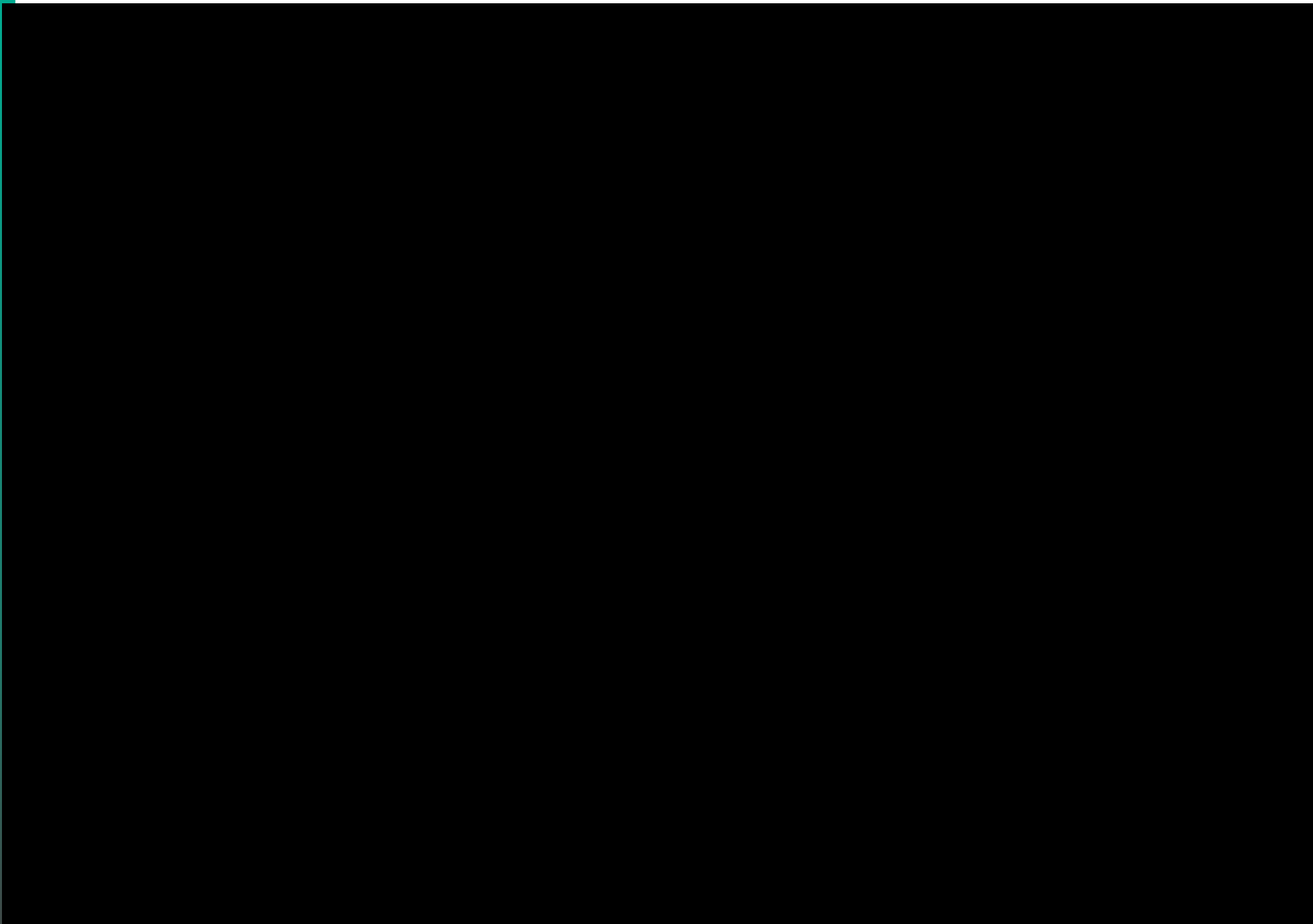












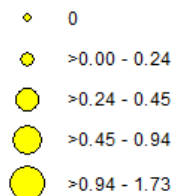
Hospitalisations (week 27)

- Weekly hospitalisation rates for laboratory confirmed COVID-19 cases
- Includes only NHS Acute Trusts that have reported ≥ 2 days in the past week
- ICU/HDU admissions (bubbles) and all hospitalisations (polygons)

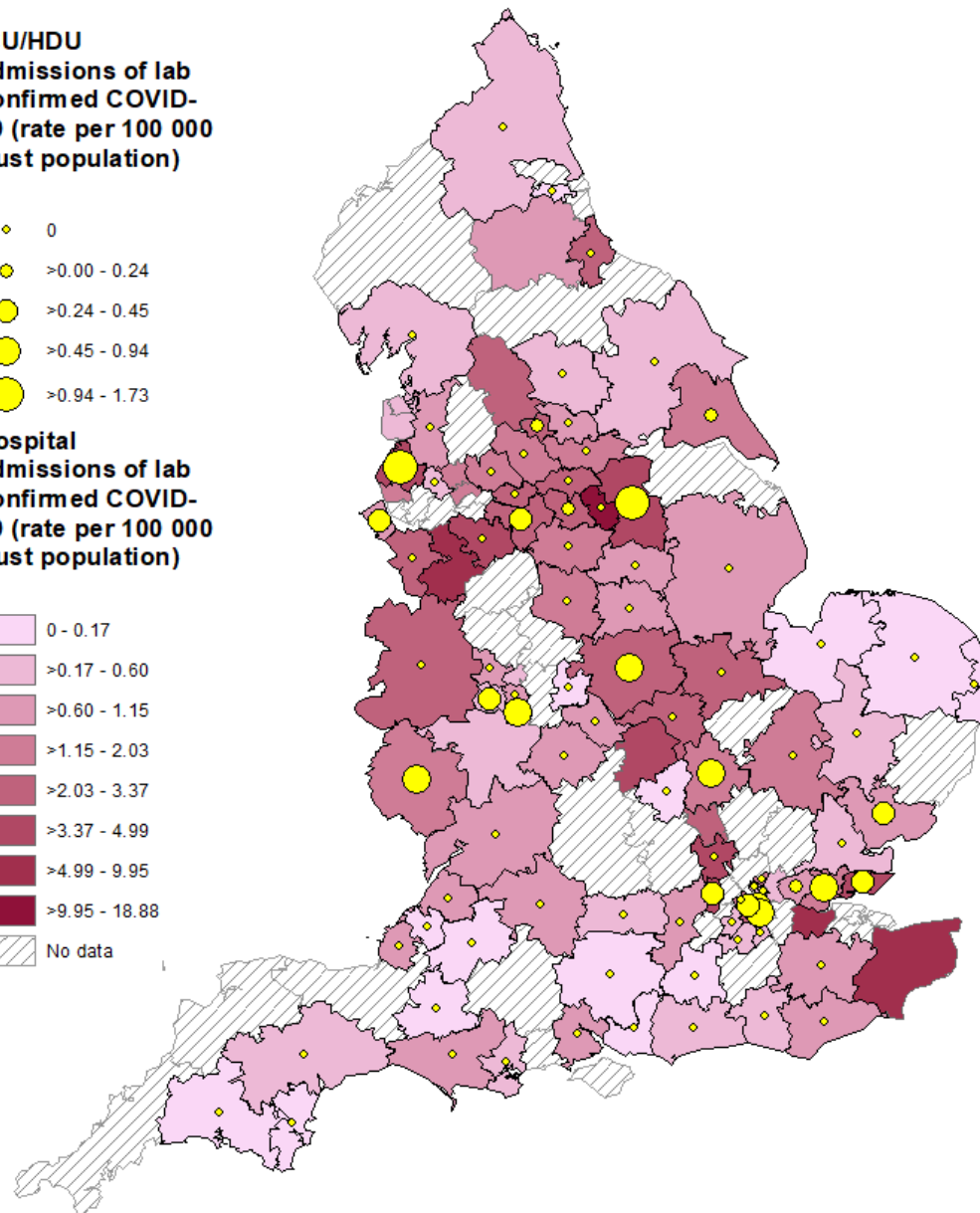
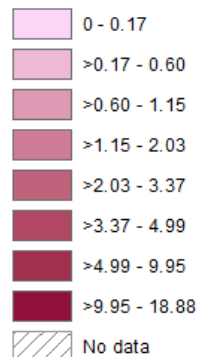
NHS Trusts with highest COVID-19 hospitalisation rates

NHS Trust	Rate (per 100,000 trust population)
THE ROTHERHAM NHS FOUNDATION TRUST	18.88
CHELSEA AND WESTMINSTER HOSPITAL NHS FOUNDATION TRUST	9.95
DARTFORD AND GRAVESHAM NHS TRUST	7.03
EAST KENT HOSPITALS UNIVERSITY NHS FOUNDATION TRUST	6.94
MID CHESHIRE HOSPITALS NHS FOUNDATION TRUST	6.09

ICU/HDU admissions of lab confirmed COVID-19 (rate per 100 000 trust population)



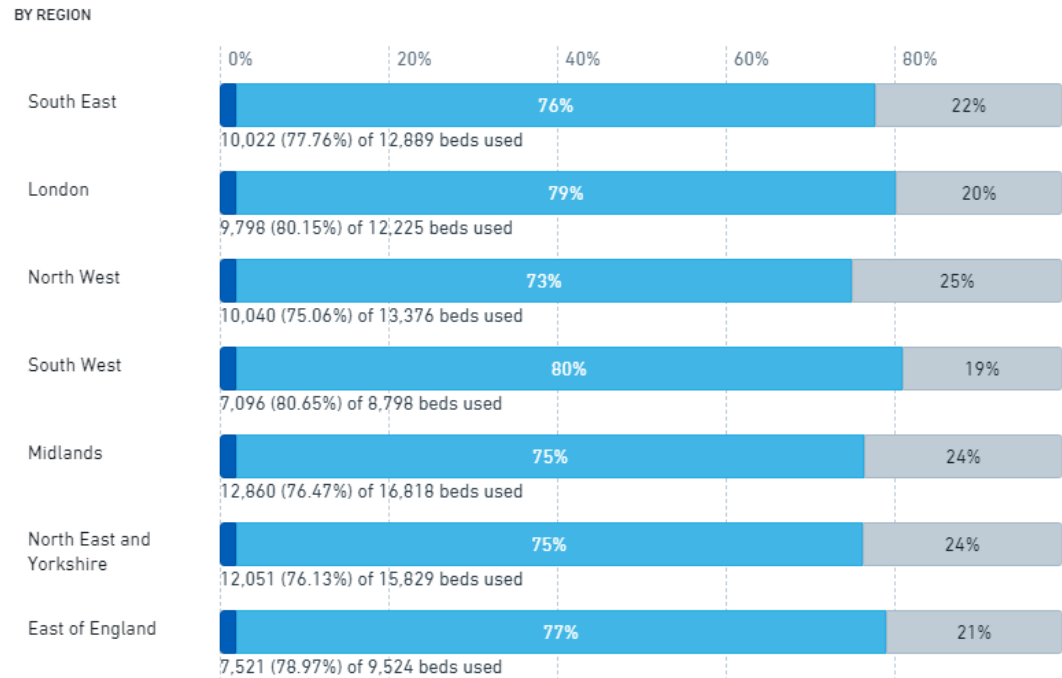
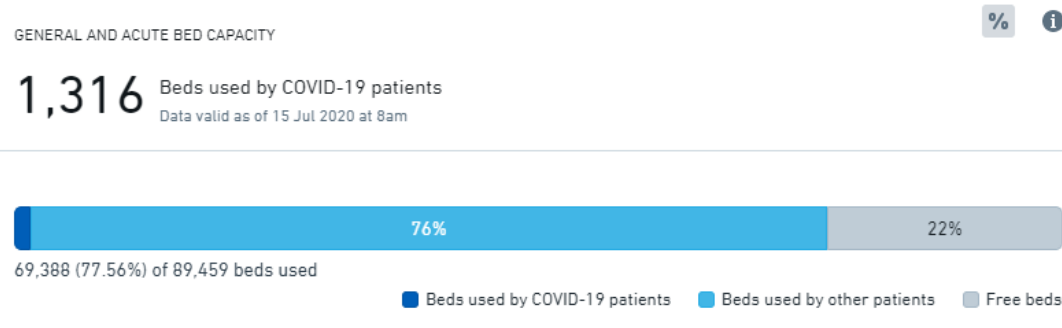
Hospital admissions of lab confirmed COVID-19 (rate per 100 000 trust population)



Source: PHE COVID-19 Hospitalisations in England Surveillance Syst

NHS hospital admission indicators

General and acute bed capacity by Region



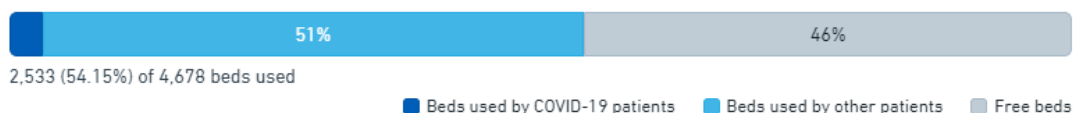
NHS hospital admission indicators

HDU/ITU bed occupancy by Region

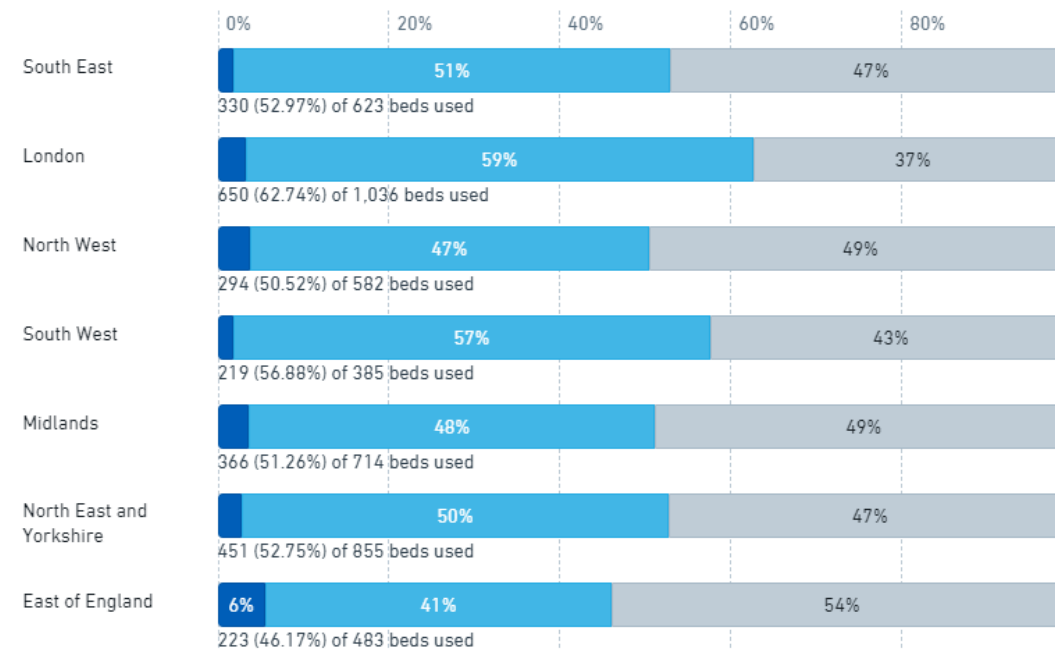
PATIENTS AND CAPACITY FOR HDU/ITU

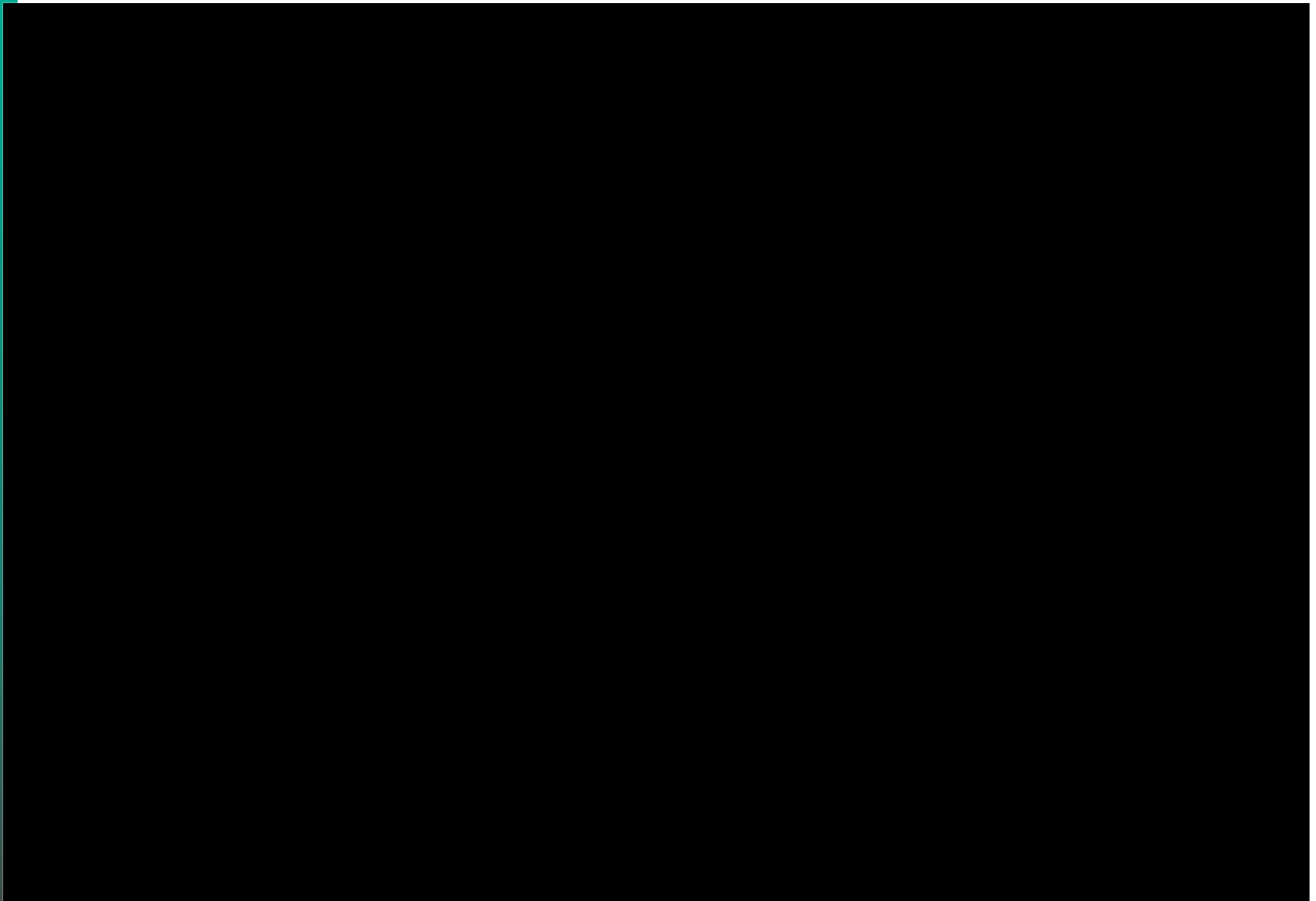
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147 Beds used by COVID-19 patients
Data valid as of 15 Jul 2020 at 8am



BY REGION





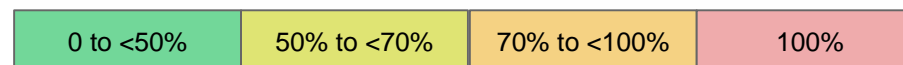
NHS hospital admission indicators

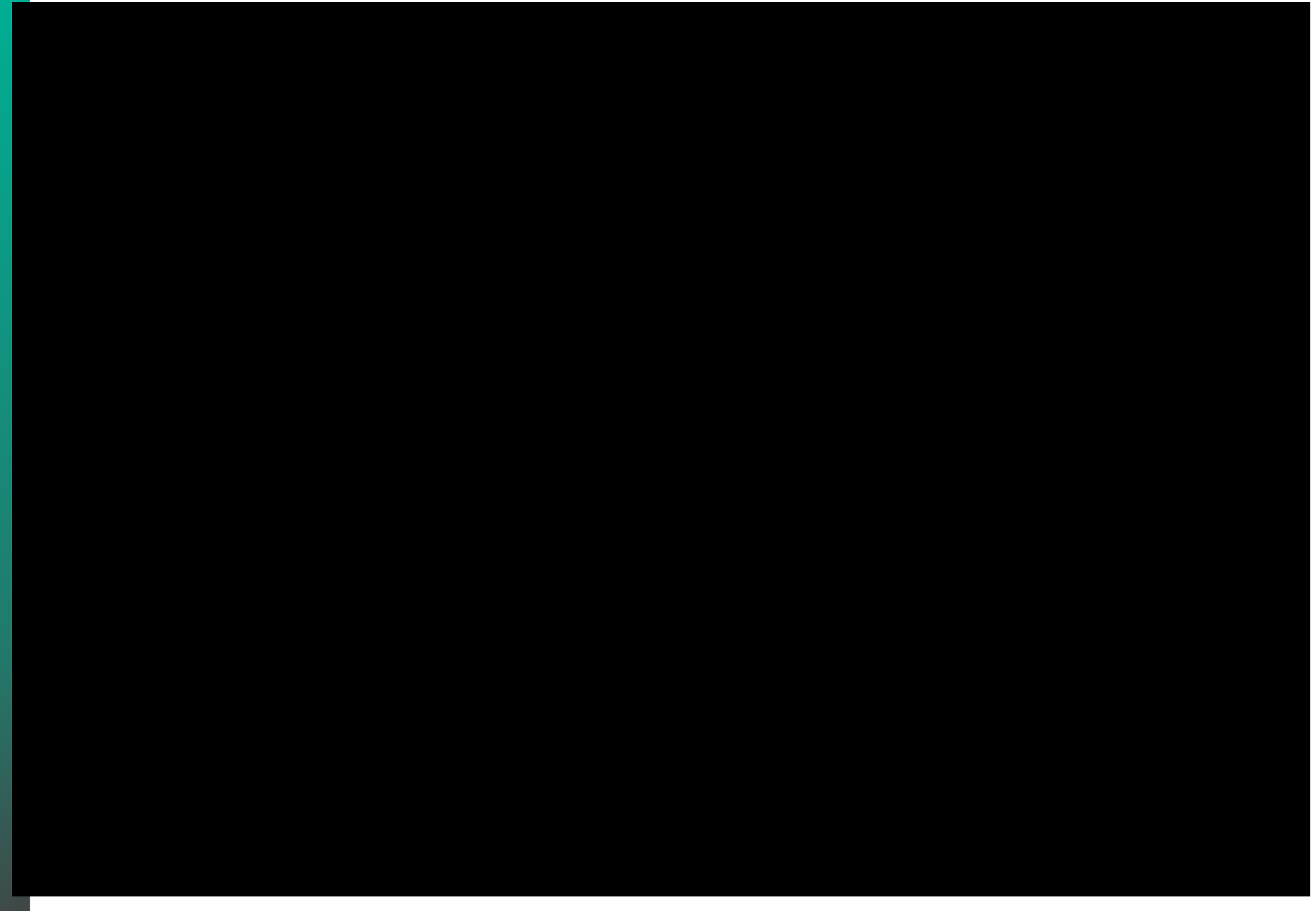
Top 10 NHS Trusts with highest number of active COVID-19 cases

Trusts

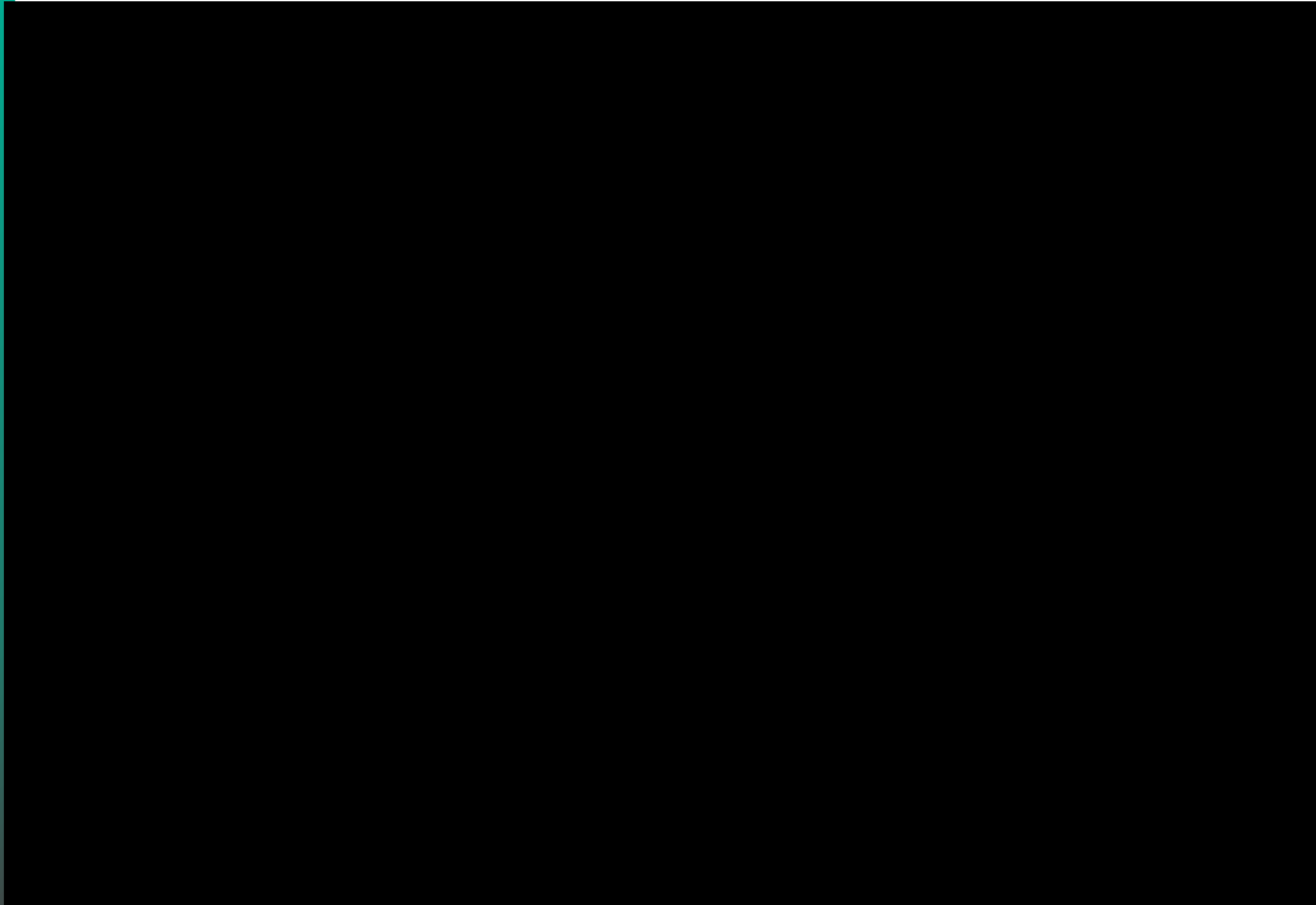
Trust	Active COVID-19 Cases	Total Deaths	V Beds Used (%)	O+ Beds Used (%)	O Beds Used (%)
Uni Hosps Birmingham FT	78	-	61.6%	24.6%	84.5%
East Kent Hosps Uni FT	64	-	72.7%	3.7%	28.1%
Manchester Uni FT	54	-	48.2%	90.4%	90.8%
Leeds Teaching Hosps	51	-	49.6%	45.8%	47.1%
Luton & Dunstable Uni Hosp FT	48	-	46.8%	35.1%	86.0%
Uni Hosps of Leicester	45	-	56.3%	25.6%	83.5%
Imperial College HC	38	-	26.2%	100.0%	74.4%
Uni Hosps of Derby & Burton FT	36	-	35.6%	31.0%	70.0%
King's College Hosp FT	34	-	56.8%	100.0%	91.3%
Salford Royal FT	31	-	75.0%	?	?

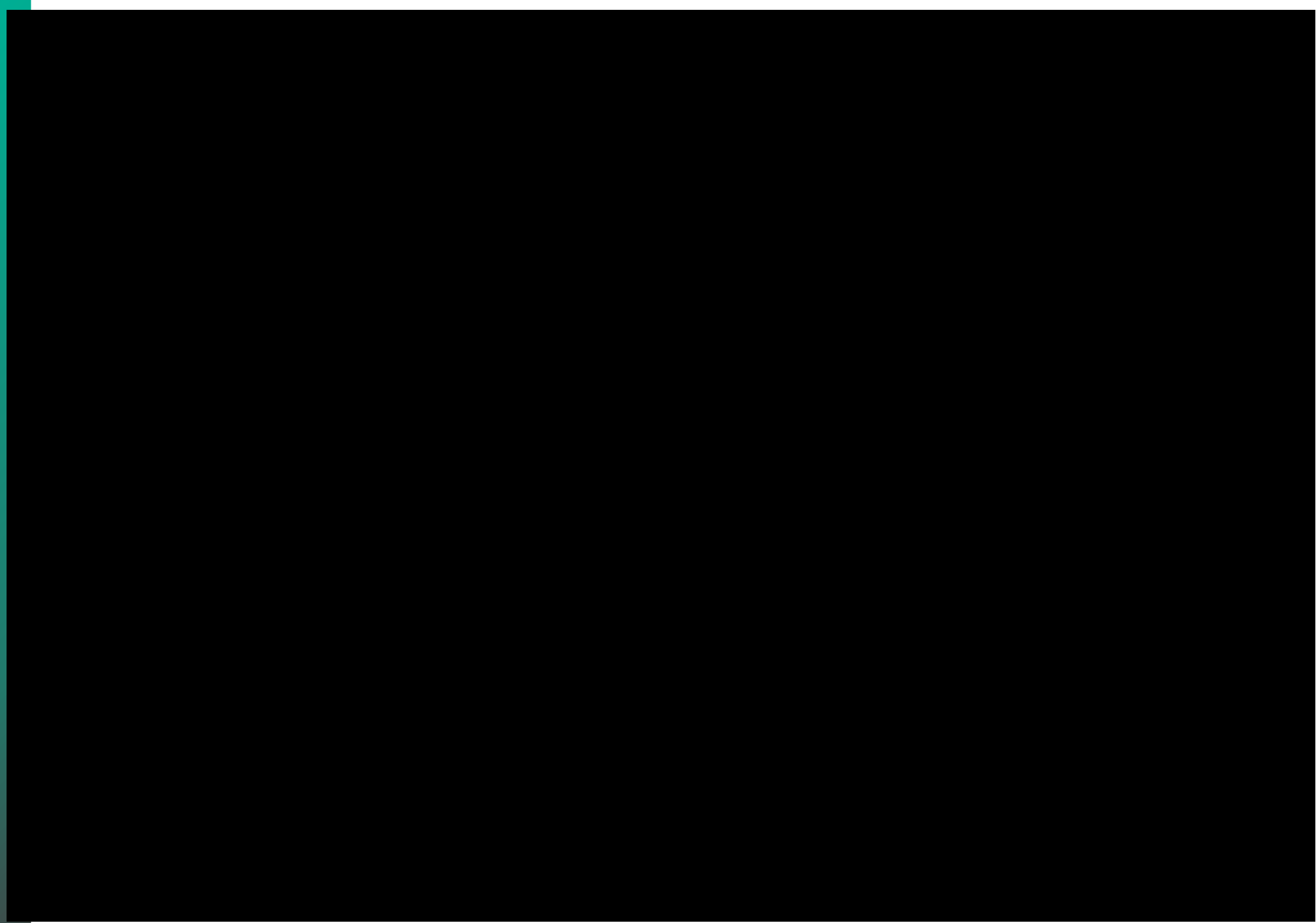
Key:

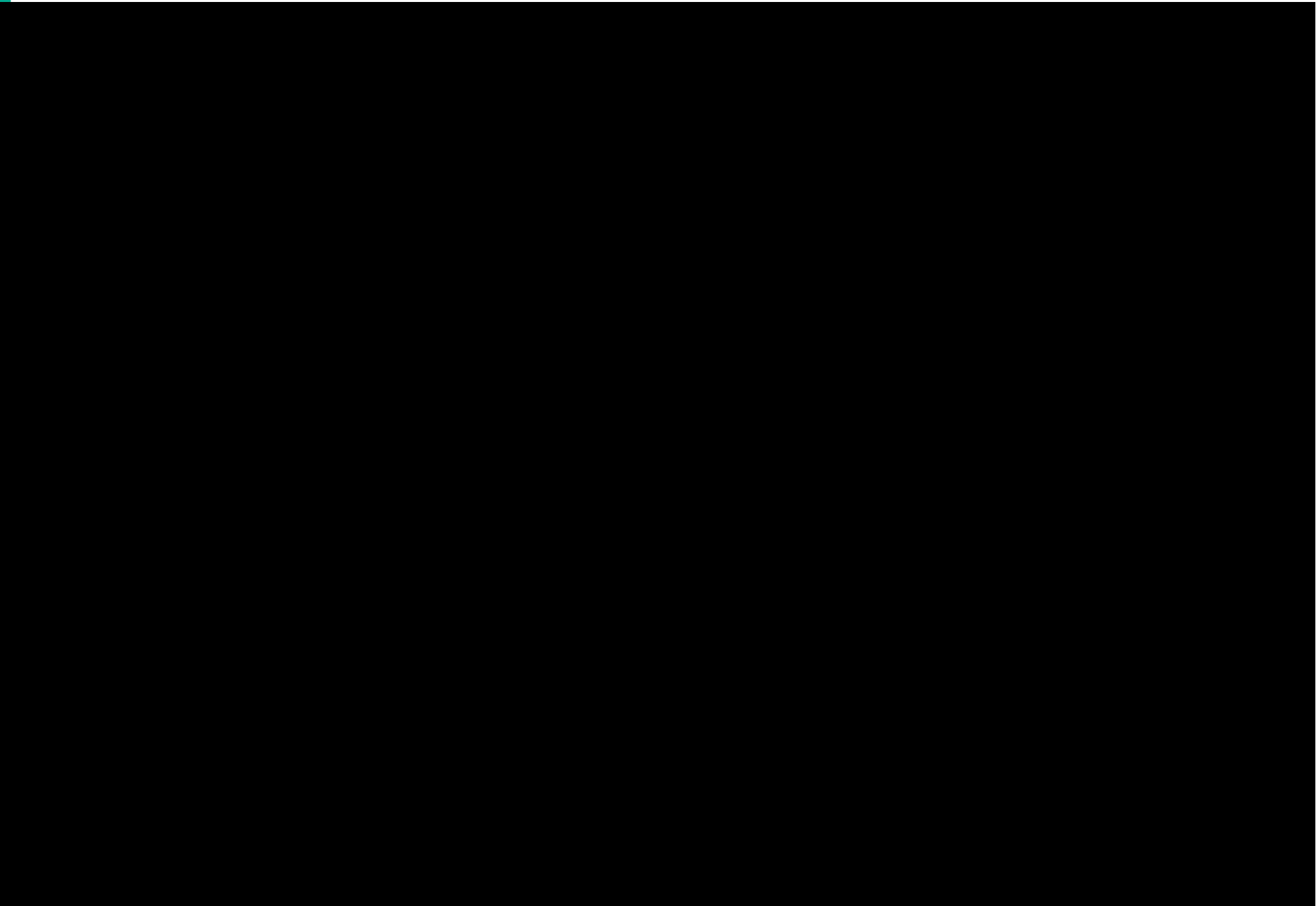












Outbreak reports

Notes: Information on outbreaks is collated from the health protection team case management system and from their reports to the PHE IMT.

Definitions:

Situation: a generic term for linking cases on the HPT case management platform (HPZone)

Outbreak:

‘Two or more confirmed cases of COVID-19 among individuals associated with a workplace/care home/educational setting with onset dates within 14 days.’ In certain settings ‘an overall increase in sickness absence reporting where e.g. parents report illness with suspected COVID-19 is classified as an outbreak.

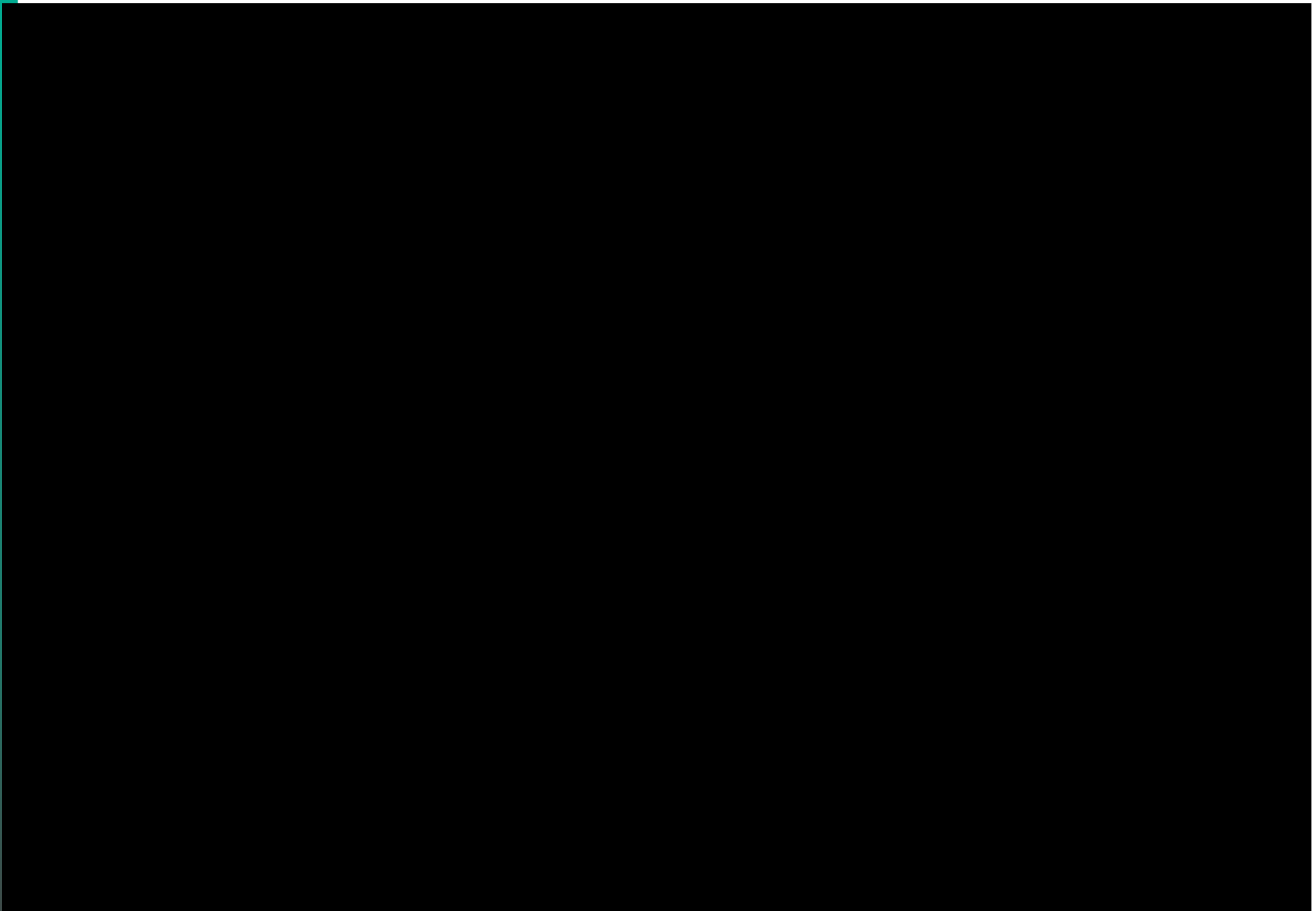
Incident:

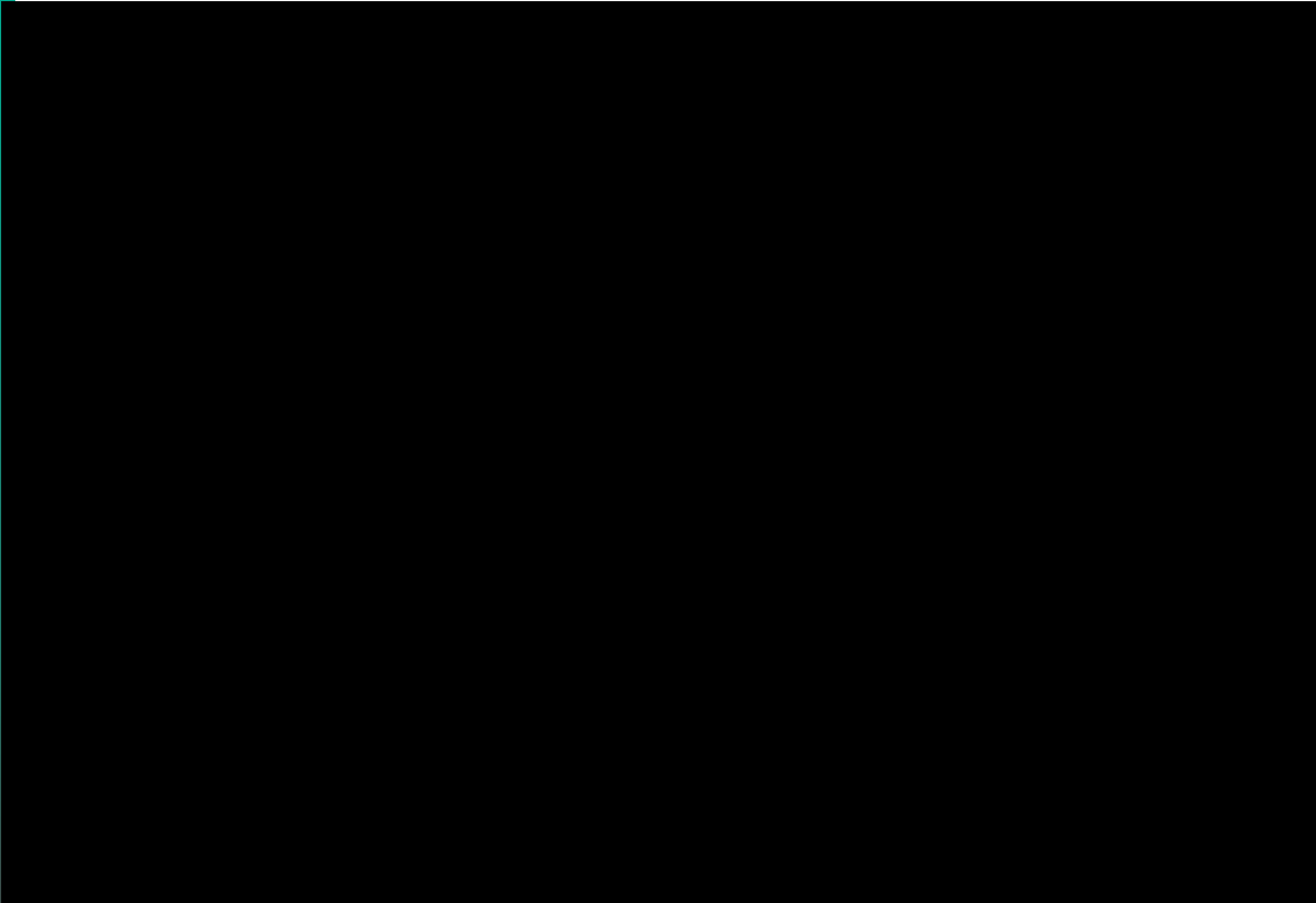
Used by GIS / Dashboard are **Outbreaks** reported in the last 24 hours.

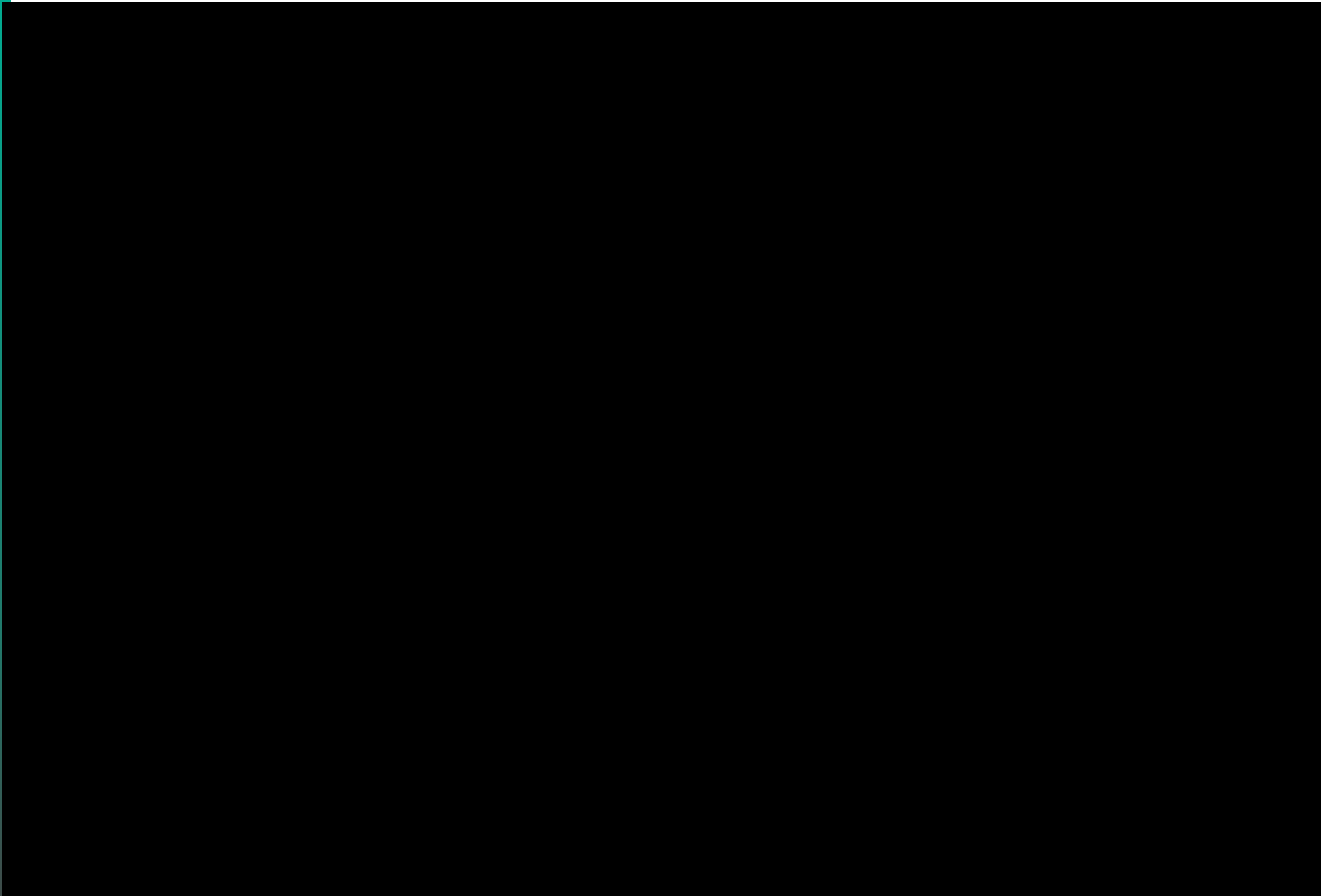
‘**Situations of Interest**’ are outbreaks that are reported by local HPTs to the daily national ROC T/C due to aspects that may be of interest, including but not limited to:

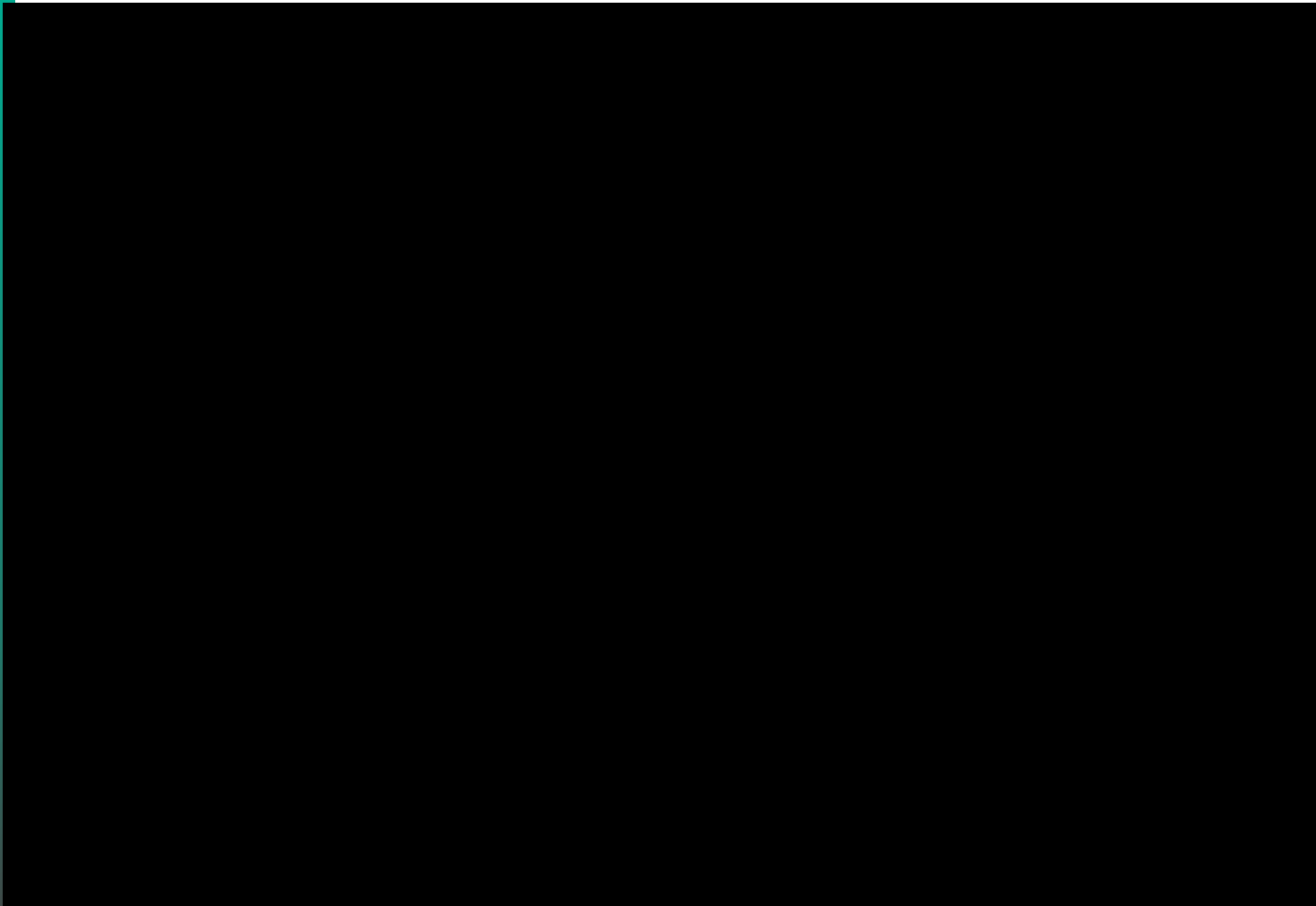
- Scale: large numbers.
- Sensitivity: either because of local political interest, or national political interest.
- Situations where control measures are particularly challenging or are not being immediately effective.
- Settings of interest, care homes, NHS establishments, educational settings, food businesses etc.

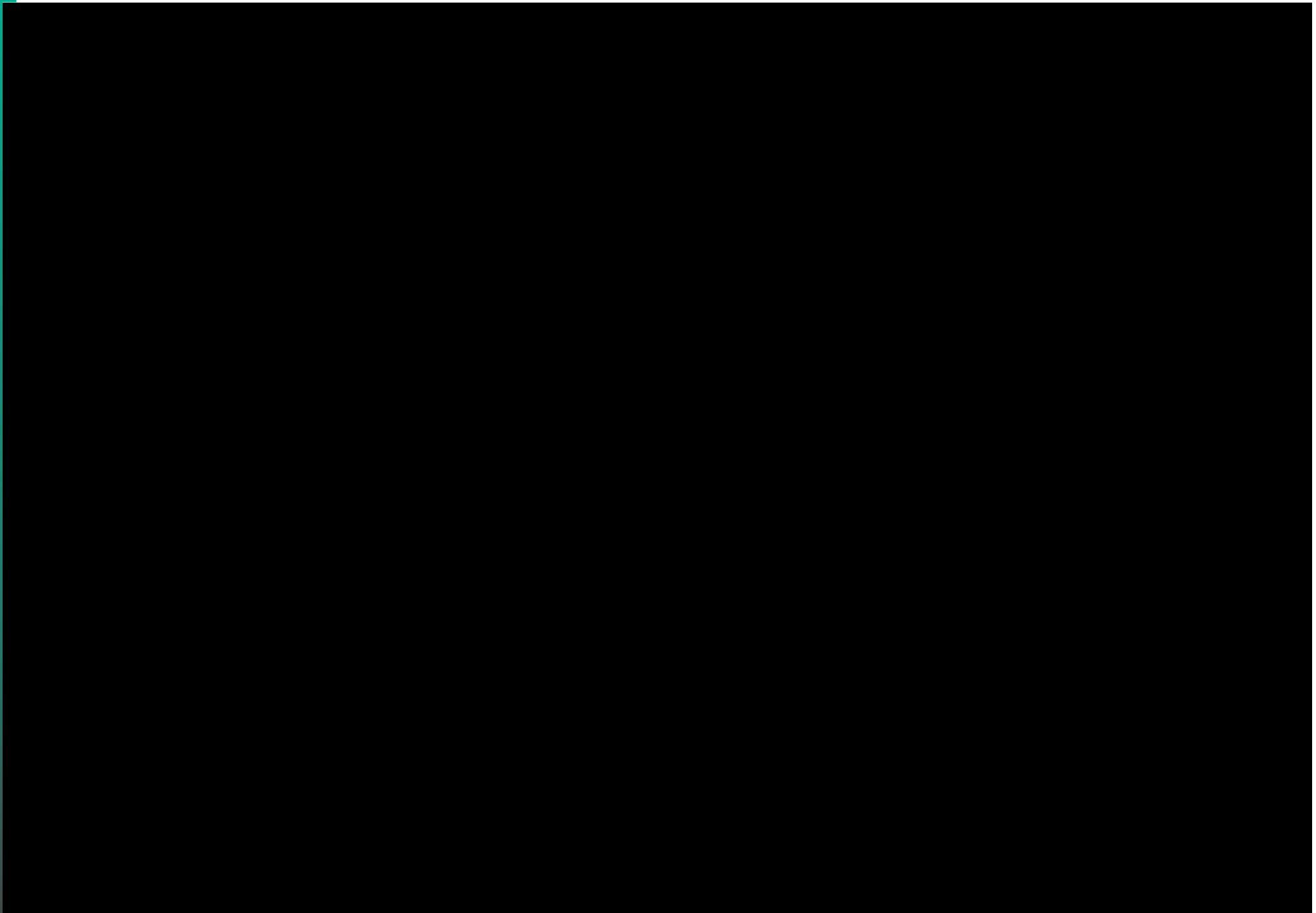
All Situations of Interest (SOI) are outbreaks. Not all outbreaks are SOI.





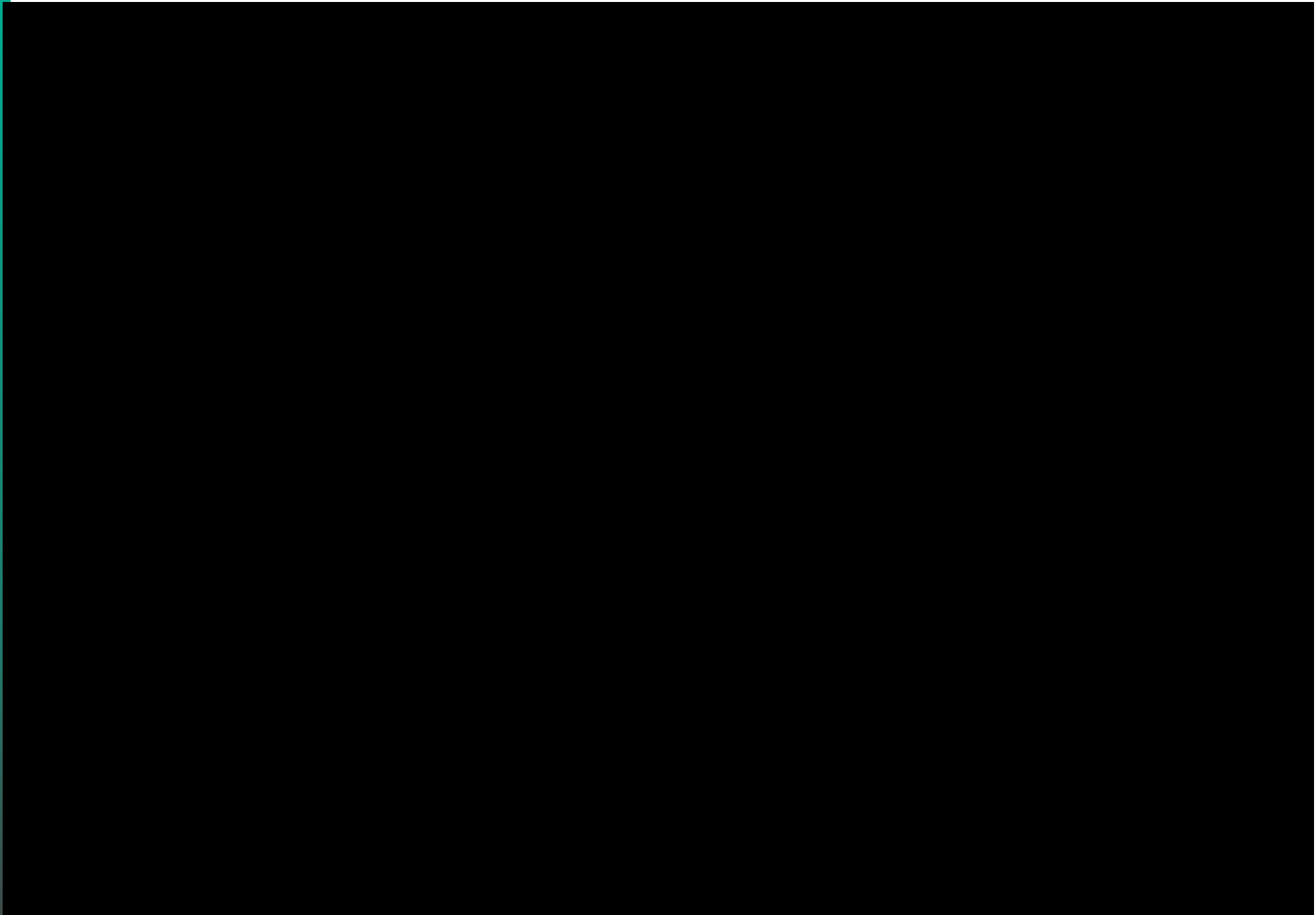












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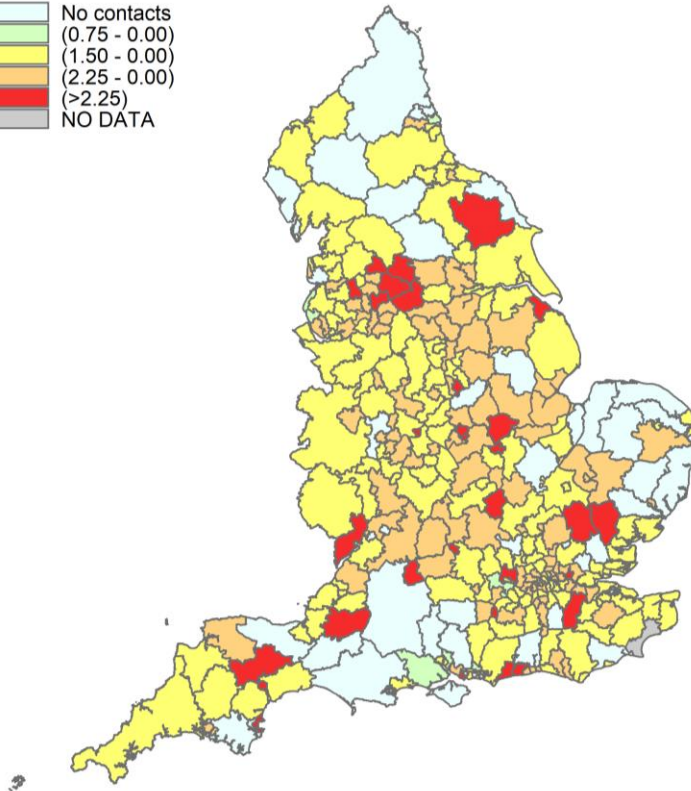
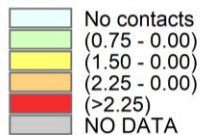




Contact tracing

Median number of individual contacts per case by lower-tier local authority, England, overall from 28 Jun 2020 to 04 Jul 2020 (NHS Test and Trace).

Median contacts per case



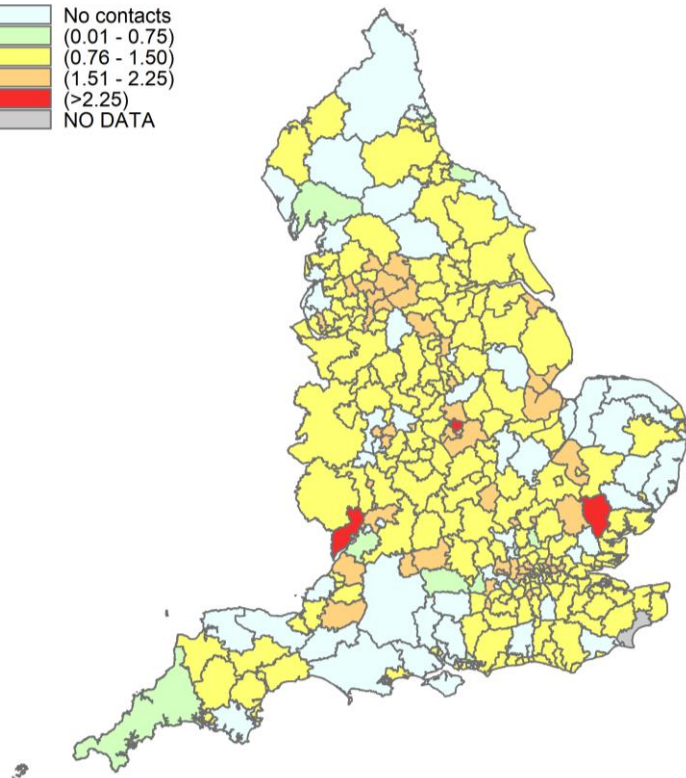
Note this excludes contacts identified as part of complex situations managed by Level 1.

All data as at 10 July 2020

Contact tracing

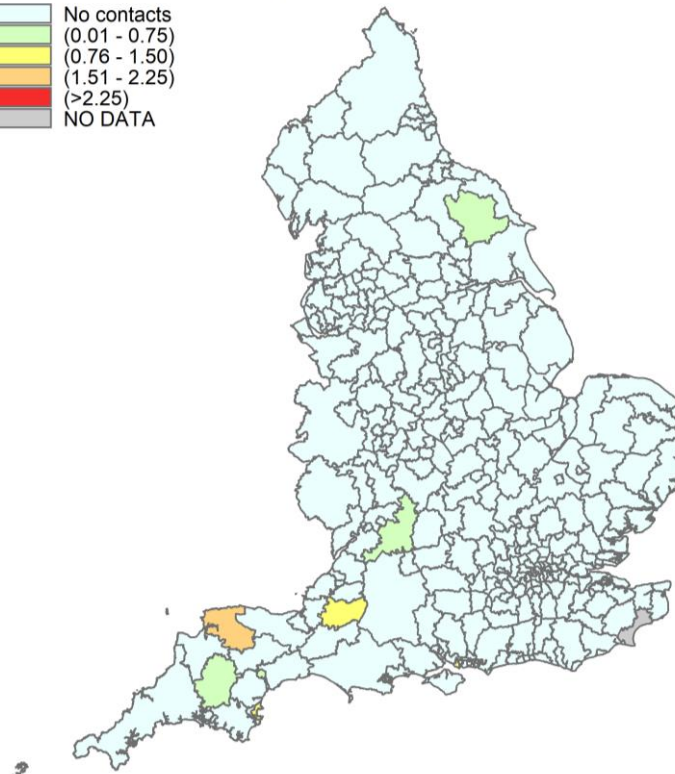
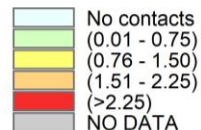
Median number of contacts per case by setting (household or other) by lower-tier local authority, England, overall from 28 Jun 2020 to 04 Jul 2020 (NHS Test and Trace).

Contacts by household



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Contacts by other setting



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Contains National Statistics data © Crown copyright and database right 2020

Please note maps have changed to show the median so cannot be compared to previous maps.

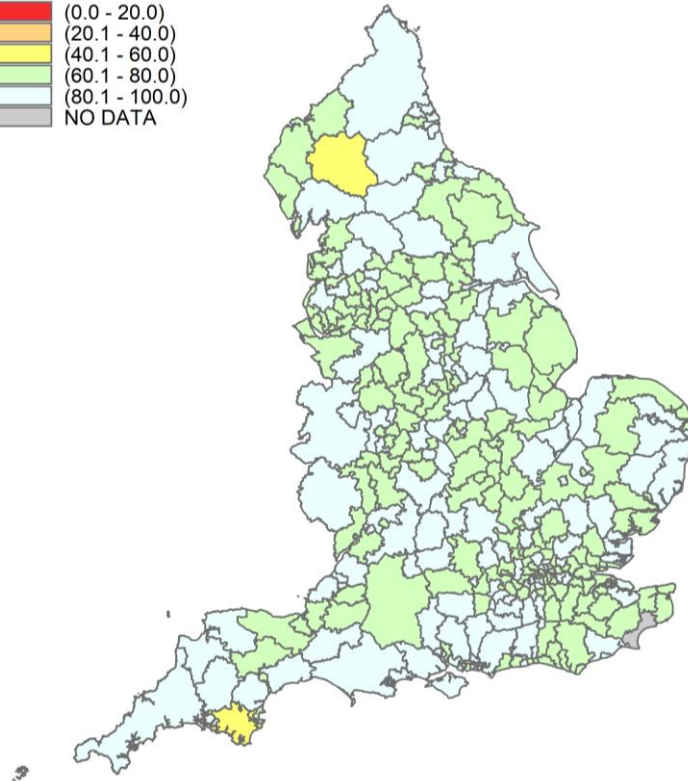
Note that contacts with unknown geography are assigned to the lower-tier local authority of the case that identified them.

All data as at 10 July 2020

Contact tracing

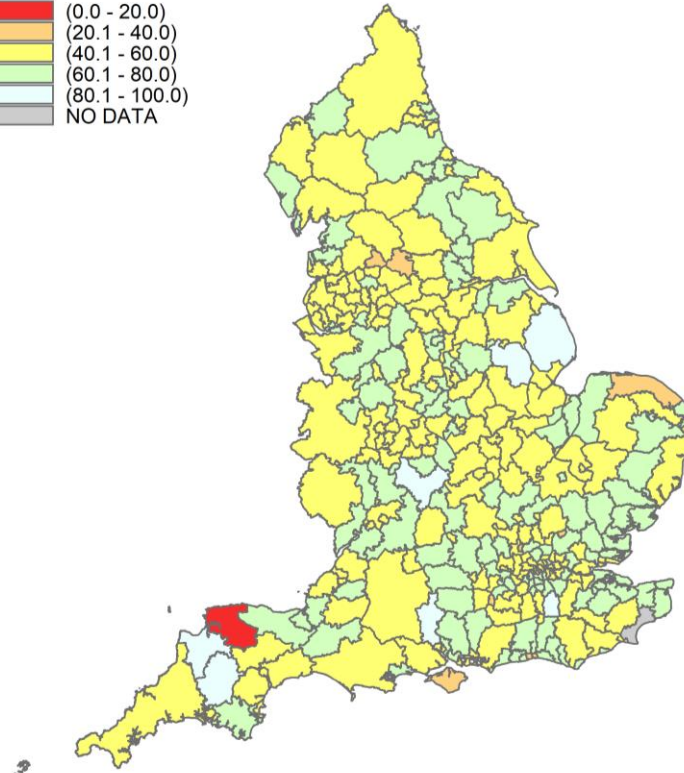
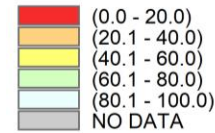
Proportion of cases and contacts completing contact tracing by lower-tier local authority, England, overall from 28 Jun 2020 to 04 Jul 2020 (NHS Test and Trace).

Completion by case



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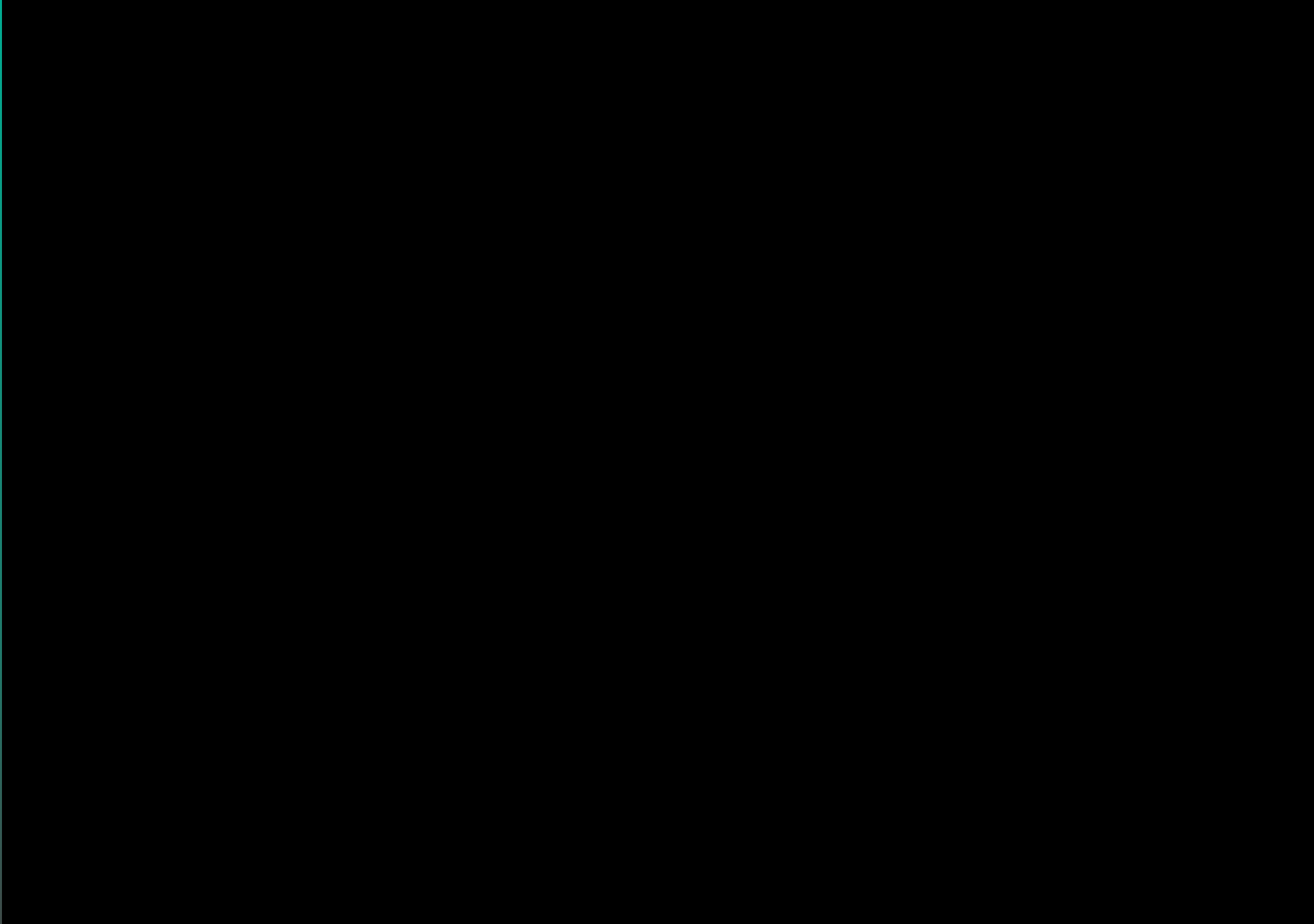
Completion by contact

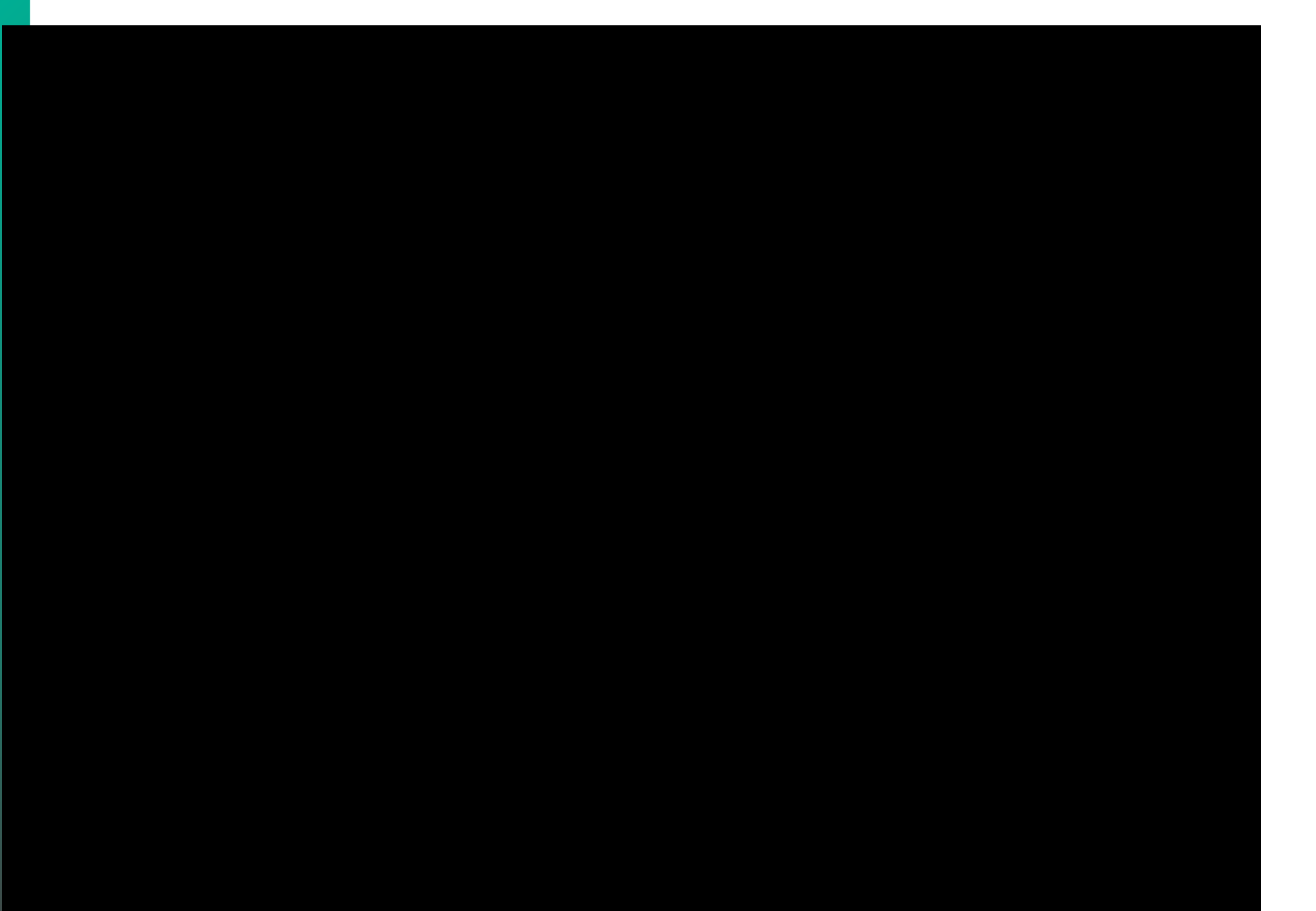


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Note that contacts with unknown geography are assigned to the lower-tier local authority of the case that identified them.

All data as at 10 July 2020





COVID-19: nowcast and forecast

Updated findings 13/07/2020

- We have revised last week's estimate of the number of infections arising each day across England from 5,300 (3,000–9,000, 95% credible interval) to 3,600 (2,400–5,400, 95% credible interval). Over the last week there is no evidence of any further change in the number of daily new infections with the current estimate being 3,300 (1,900–5,700, 95% credible interval).
- We predict that the number of deaths each day is likely to be between 45 and 85 by the end of July.
- We estimate it is very likely that R_t is below 1 in all regions of England.
- The East of England and the North East & Yorkshire have the highest probabilities (33% and 32% respectively) that R_t is above 1. This probability is $\leq 5\%$ for the North West and the Midlands.
- The data used are only weakly informative on R_t over the last two weeks. Therefore, the now-cast for current incidence and the forecast of deaths are quite uncertain.

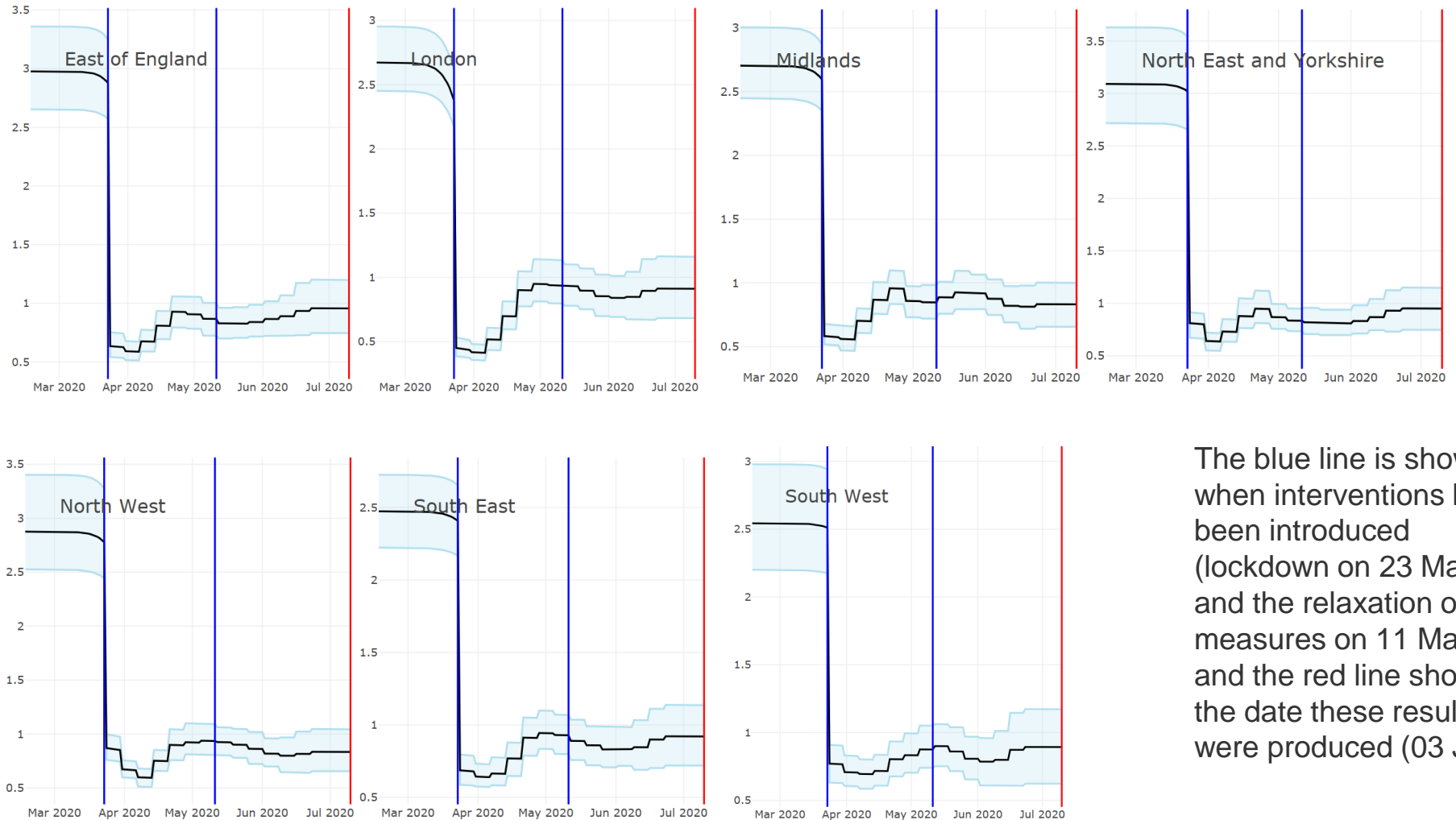
Source: <https://www.mrc-bsu.cam.ac.uk/now-casting/>

Current Rt

- Updated findings 13/07/2020
- Value of Rt, the average number of secondary infections due to a typical infection today.

Region	Median	95% CrI (lower)	95% CrI (upper)
East of England	0.96	0.75	1.20
London	0.91	0.68	1.16
Midlands	0.83	0.66	1.00
North East and Yorkshire	0.95	0.75	1.15
North West	0.83	0.65	1.04
South East	0.92	0.72	1.14
South West	0.89	0.62	1.17

Rt over time



The blue line is show when interventions have been introduced (lockdown on 23 Mar and the relaxation of measures on 11 May), and the red line shows the date these results were produced (03 Jul).

Change in infections incidence

- Updated findings 13/07/2020
- negative growth rates are rates of decline. Values are daily changes.

Region	Median	95% CrI (lower)	95% CrI (upper)
England	-0.01	-0.03	0.02
East of England	-0.01	-0.06	0.04
London	-0.02	-0.08	0.03
Midlands	-0.04	-0.09	0.01
North East and Yorkshire	-0.01	-0.06	0.03
North West	-0.04	-0.09	0.01
South East	-0.02	-0.07	0.03
South West	-0.02	-0.10	0.04

Sources of data and signposting

Internal reports/updates

- Weekly COVID19_Epidemiological Internal Update report
- COVID-19 Exceedance Daily Review
- All regions PHE Situations of Interest daily update
- PHE NHS Test and Trace: Weekly Contact Tracing Report
- PHE Daily Care Home Report
- PHE Educational settings weekly report for NERVTAG
- [COVID-19: nowcast and forecast](#)

Published reports

- [Weekly Coronavirus Disease 2019 \(COVID-19\) Surveillance Report](#)
- [COVID-19: number of outbreaks in care homes – management information](#)

Data sources

Second Generation Surveillance System (SGSS)

Data as of 14/07/2020 00:00hrs

Laboratory-confirmed cases reported to PHE. SGSS data is further deduplicated and cleaned by the PHE ICC Epidemiology Cell. The dataset includes all positive COVID-19 cases reported through both Pillar 1 and Pillar 2 testing. Numbers in most recent days may rise due to potential delays to data reporting and validation. The number of confirmed cases reflects both the incidence of infection and testing rates.

PHE Unified Sample Dataset (USD)

Data as of 15/07/2020 00:00hrs

Data on individuals testing negative for SARS-CoV2 in both Pillar 1 and 2. This data is deduplicated to only include one record for any individual who has had only negative samples

HPZone case and incident management system

Data as of 15/07/2020 08:00hrs

Only outbreaks reported to PHE are included. Absolute numbers should be interpreted with caution. Reporting practice is known to vary with time and geography. Community outbreaks exclude outbreaks reported from secondary care and care home settings.