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## Luton Stack & Flight Paths

aircraft noise and disturbance

## agenda

- background
- impact analysis
- activities & progress
- complaint guidance & key takeaways
- guest speakers
- closing summary and Q&A

# background what's the issue?

#### as a direct consequence of Swanwick Airspace Improvement Programme - AD6

- 57,000+ new [disruptive] aircraft overflying our area since february 2022
- causing significant distress and disturbance to many
- our rural, peaceful countryside has been spoilt by this [imposed] blight
- the consultation process was deeply flawed and the design poor
- AD6 was never about safety simply the expansion of Luton & Stansted
- airbraking and engine noise are deeply upsetting to residents

# background the flawed consultation process...

- run during the covid lockdown
- key stakeholders excluded and scrutiny process inadequate
- lacked thorough environmental impact analysis

- poor design the options presented were not options
- inadequate consultation process with impenetrable materials
- data provided inaccurate and misleading
- https://www.nats.aero/vr/ ad6/

- impact & disturbance much worse than indicated
- whole communities unaware of AD6 yet are detrimentally affected
- important feedback disregarded

## background

#### the flawed implementation process...

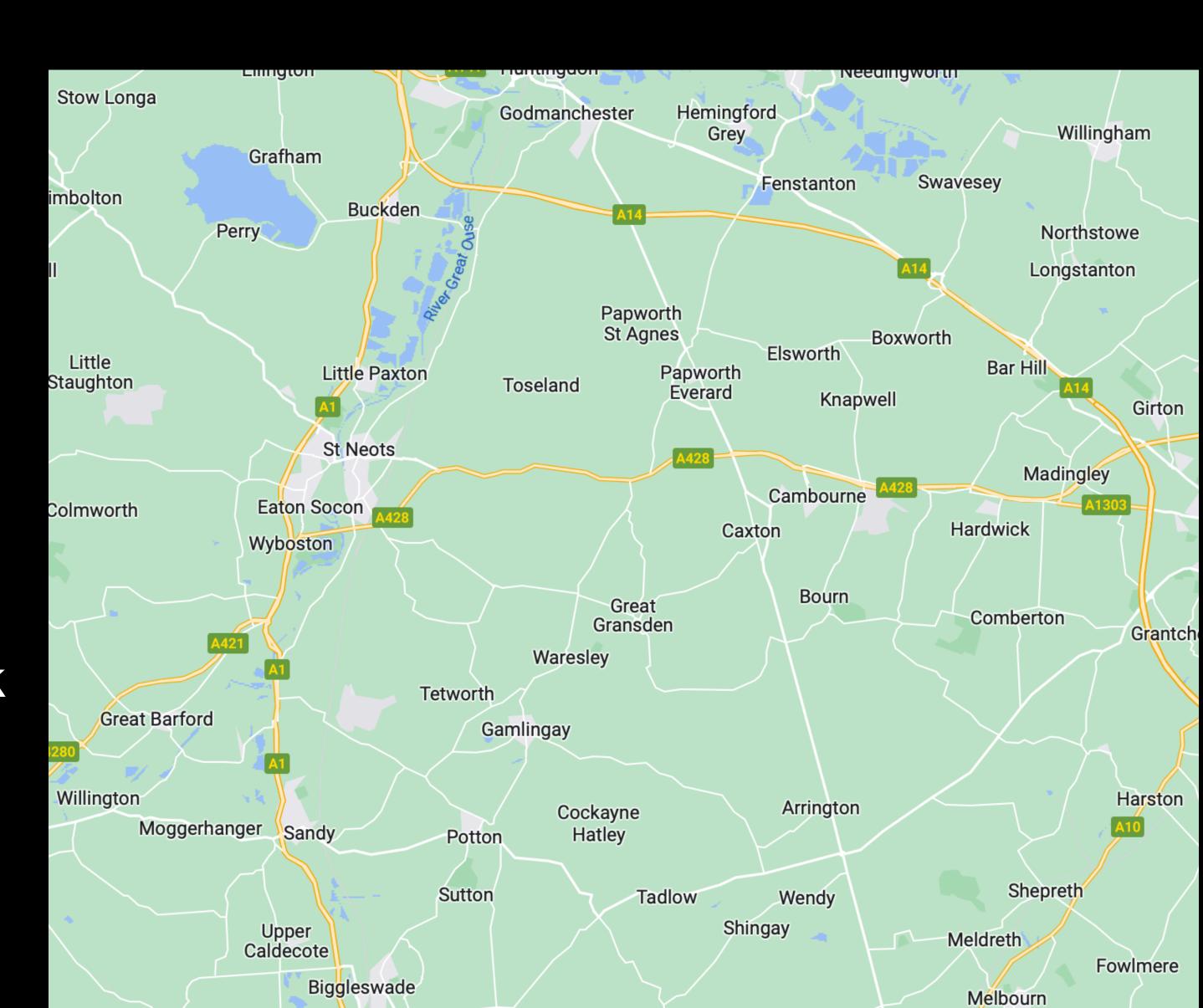
- 7 stage process for implementing airspace changes and ad6 is currently at stage 7
- data on complaints, tracks & aircraft altitude are collected and (allegedly) provided to the CAA (as regulators of the airspace) who decide if the route can be made permanent or if changes are required
- this process is run by the programme sponsors london luton airport (LLA) and NATS
- LLA are "marking their own homework" by handling complaints themselves
  - complaints rarely responded to and are dismissive when they are even when evidence provided
  - complaints not dealt with transparently or weighted as to impact on those adversely affected
  - it appears there is skewing and massaging of complaints data in LLA quarterly reporting
- engagement meetings are unconstructive and nothing more than a PR exercise with agreed actions never happening or later refused

## impact analysis

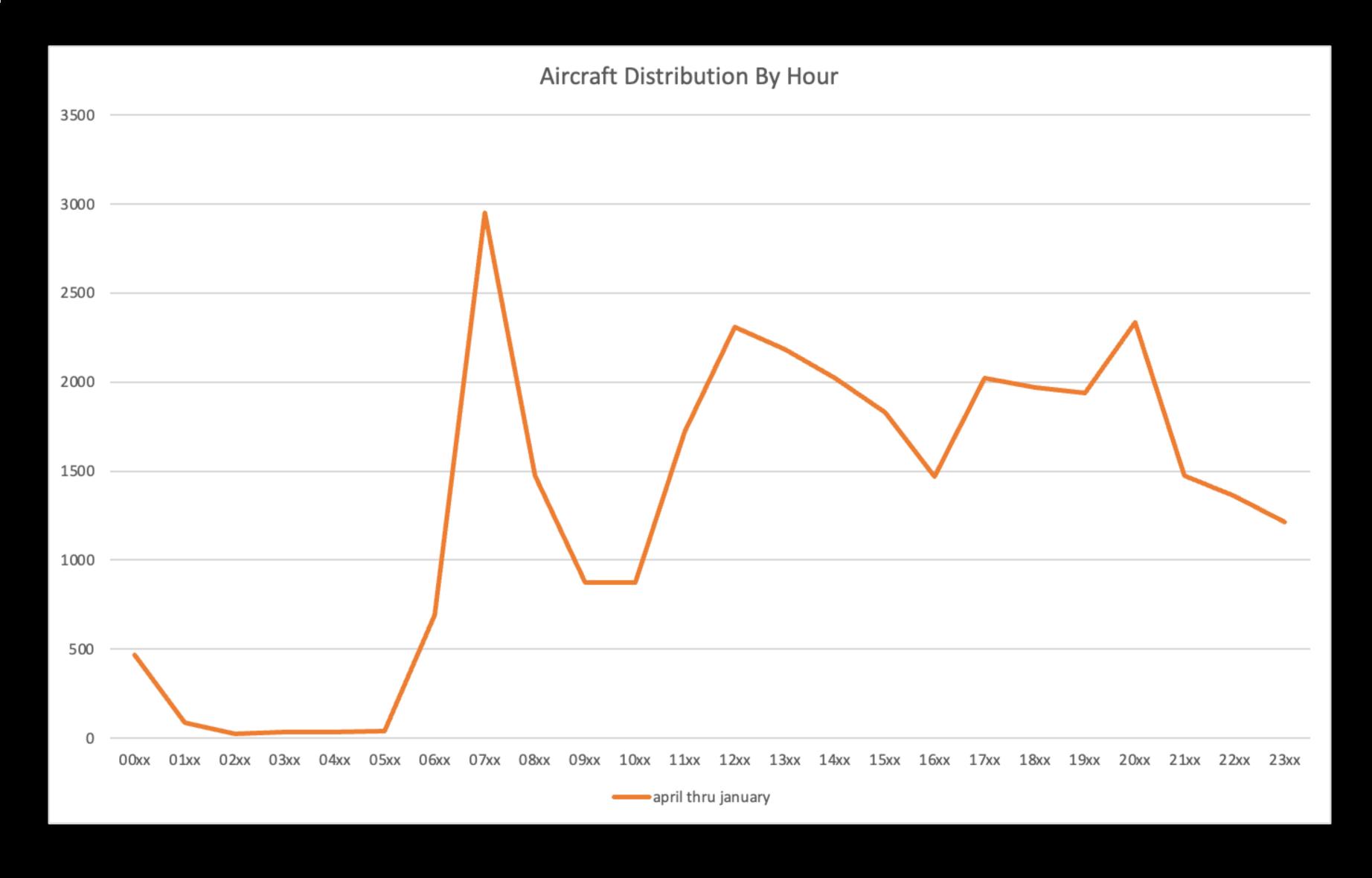
- RELAS have been capturing real time flight data since April 2022
- we have provided analysis reports to parish, district, county councils & MPs
- various studies conducted
  - flight patterns / airspace utilisation
  - noise data study
  - airbraking / noise profiling study
  - pollution / environmental impact

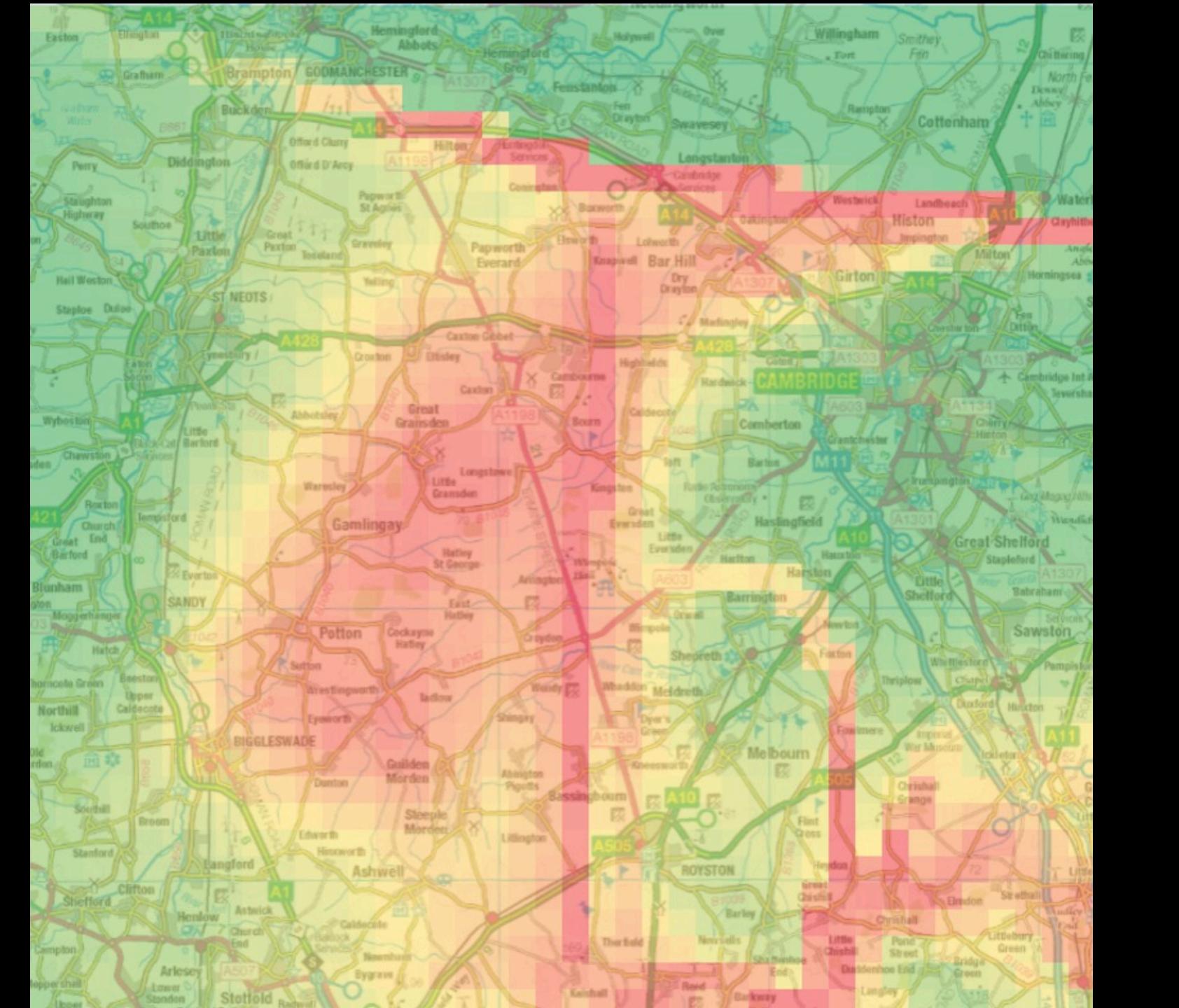
## detailed study area

- study period april 2022 through june 2023
- covers a 40km x 40km area
- 57,000 new jet aircraft operating between 5k and 20k feet
- 44,000 between 5k and 12k feet
- 101 / day @ 12k, 130 / day @ 20k
- equates to 4,400 hours of pollution / emissions



## temporal distribution



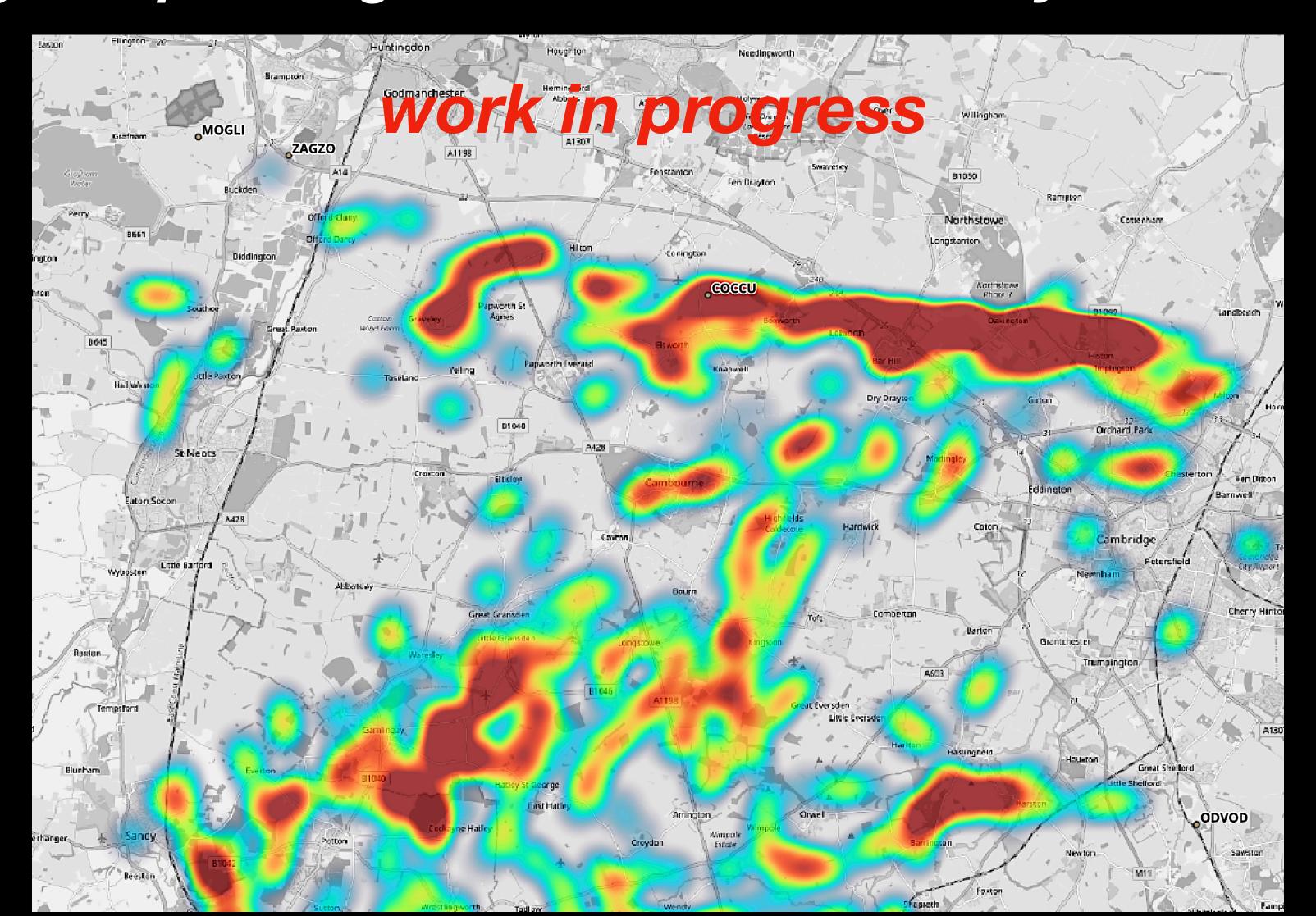


## noise data study

- conducted independently by RELAS and funded by LGPC
  - LLA equipment does not work in the rural locations that complained
  - LLA would not share data
- ambient nighttime sound levels average around 18dB
- ambient daytime sound levels average around 33db
- confirms aircraft within 3km of monitor routinely exceed 51dB
- the incremental uplift is very significant often peaking above 62dB
- study shows the consultation materials are inconsistent with sampled data

## noise profiling study

identifying and profiling the use of airbrakes by inbound aircraft



## pollution study

green house gas (GHG) emission

presented by Sam Rostami PhD consultant scientist

## Green House Gas (GHG) Emission

- Global GHG Emitted in 2019
- GHG per Capita
- GHG from Aviation industry
  - AD6

#### Sources:

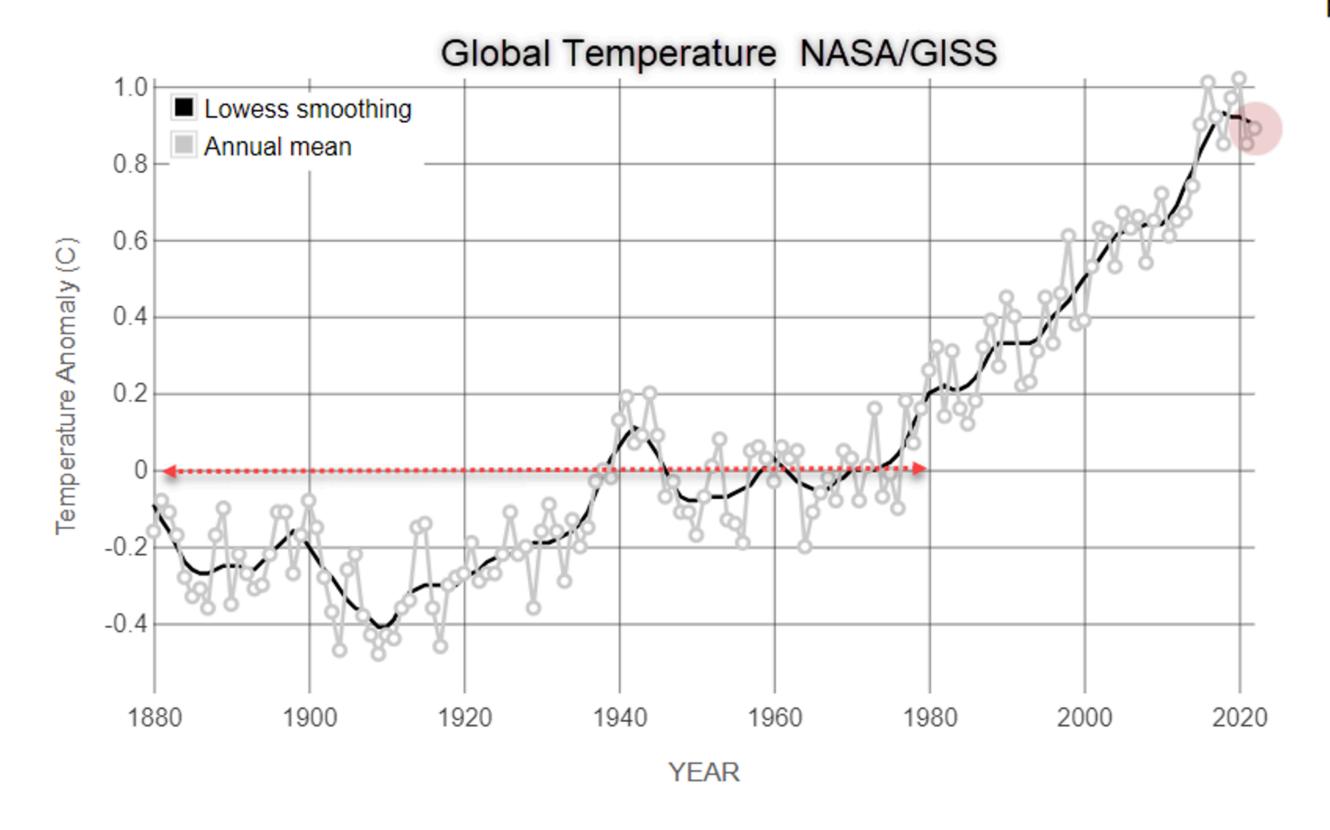
- 1. Intergovernmental Panel of Climate Change Report 2022 IPCC Ar6 WGIII 2022
- 2. Carbon dioxide now more than 50% higher than pre-industrial levels | National Oceanic and Atmospheric Administration (noaa.gov)
- 3. https://www.eesi.org/papers/view/fact-sheet-the-growth-in-greenhouse-gas-emissions-from-commercial-aviation

## Aviation Impacts

- Noise
  - Sleep disturbance,
  - Stress, Anxiety
  - Hearing damage
- Air Pollution (NOx, PM, VOC)
  - Respiratory
  - Cardiovascular
  - Lung cancer
  - Meningitis

- Quality of Life
  - Property devaluation
  - Disruption of Daily Activities (work, study, relaxation...)
  - Environmental Impact
    - Sense of helplessness
    - Frustration
    - Wild life
- 99% of global population breathe polluted air that exceeds WHO guideline limits.
- Annually 7 million die prematurely as result of all sources of air pollution (WHO)
- 90% of children breath PM2.5 and 16% die from pollution (BMJ May2023)

#### Global Change in Temperature



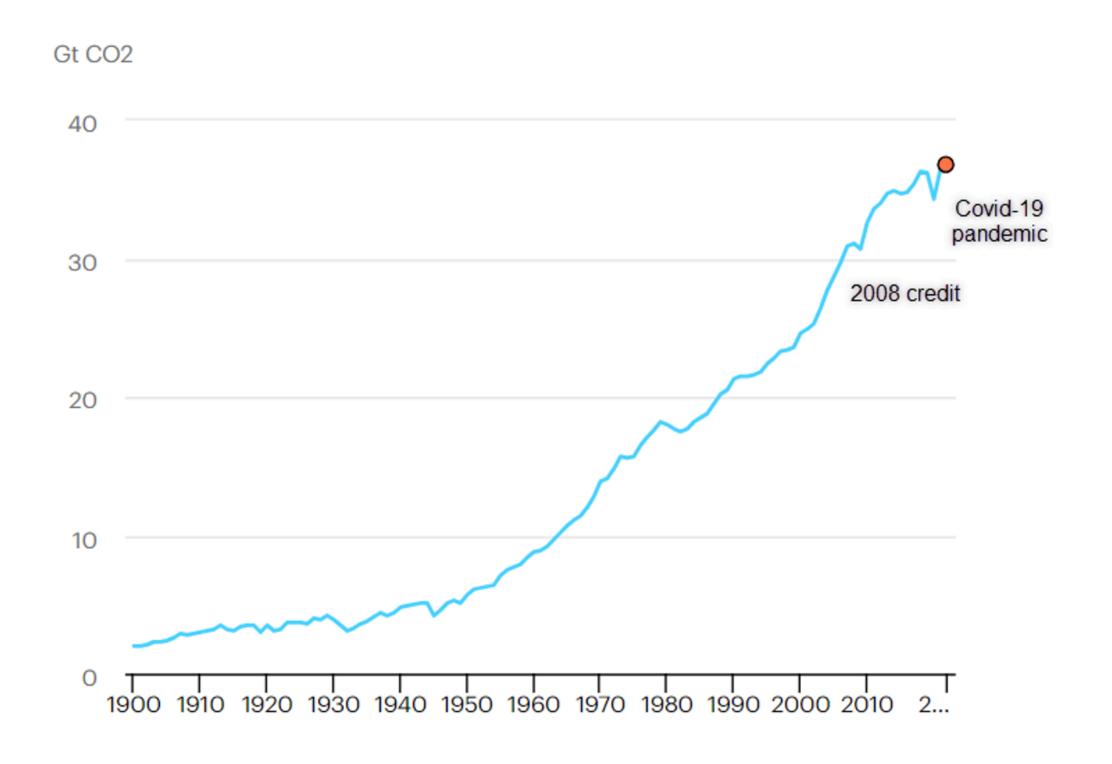
Number of World Disasters

Years	Number	Killed
1900-1909	28	-
1997-2006	6866	1,200,000

Global CO2 emissions from energy combustion and industrial processes, 1900-2022



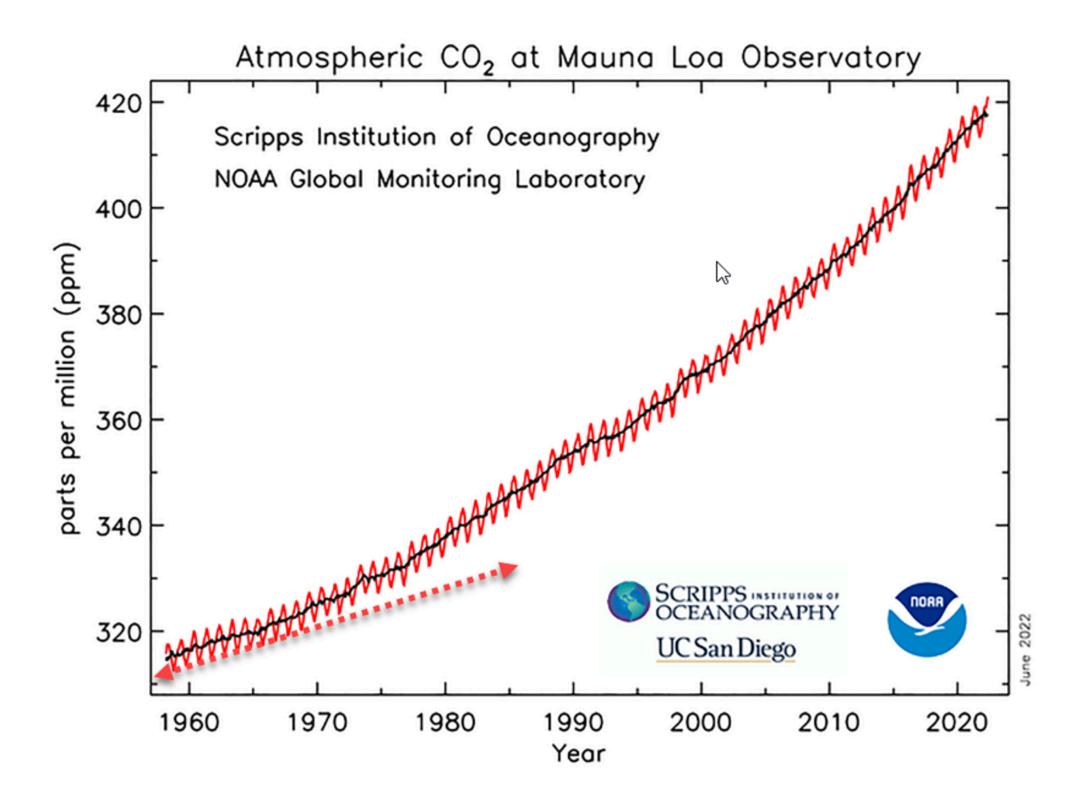




#### Some Facts About Carbon Dioxide

- Has no smell or colour.
- Stays in the atmosphere for 300 to a few 1000 years
- Prior to industrial revolution atmospheric carbon dioxide levels were around 280 ppm.
- The rate of increase accelerated since 1980.
- So changes are coming faster, and they're becoming more significant.





### 2019 GHG Emitted Globally

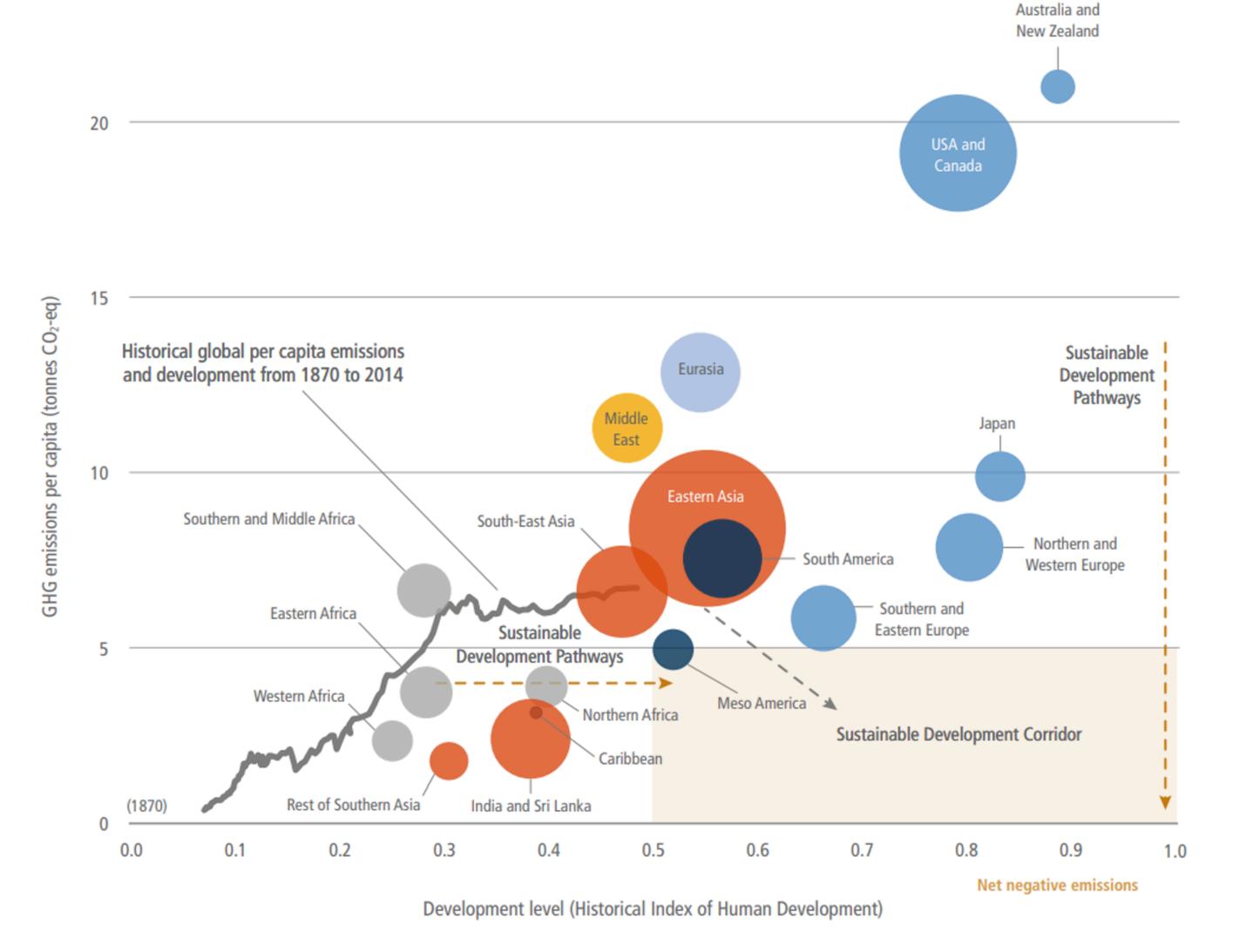
GHG Emitted in 2019	Giga Tons (10 <sup>9</sup> Tons)		
Carbon dioxide	45 ± 5.5		
Methane	11 ± 3.2		
Nitrous oxide	2.7 ± 1.6		
Fluorinated gases	$1.4 \pm 0.41$		
Total	59 ± 6.6		

2019 Source of Emissions	%
Transport	15
Buildings	16
Industry	34
Agriculture	22
Others	12

- 59 Gt of GHG emitted in 2019
- Only 2 Gt is absorbed naturally.
- The rest of CO2 stays in the atmosphere.

From Intergovernmental Panel of Climate Change Report 2022 IPCC\_Ar6\_WGIII 2022

## Global GHG Emission Per Capita

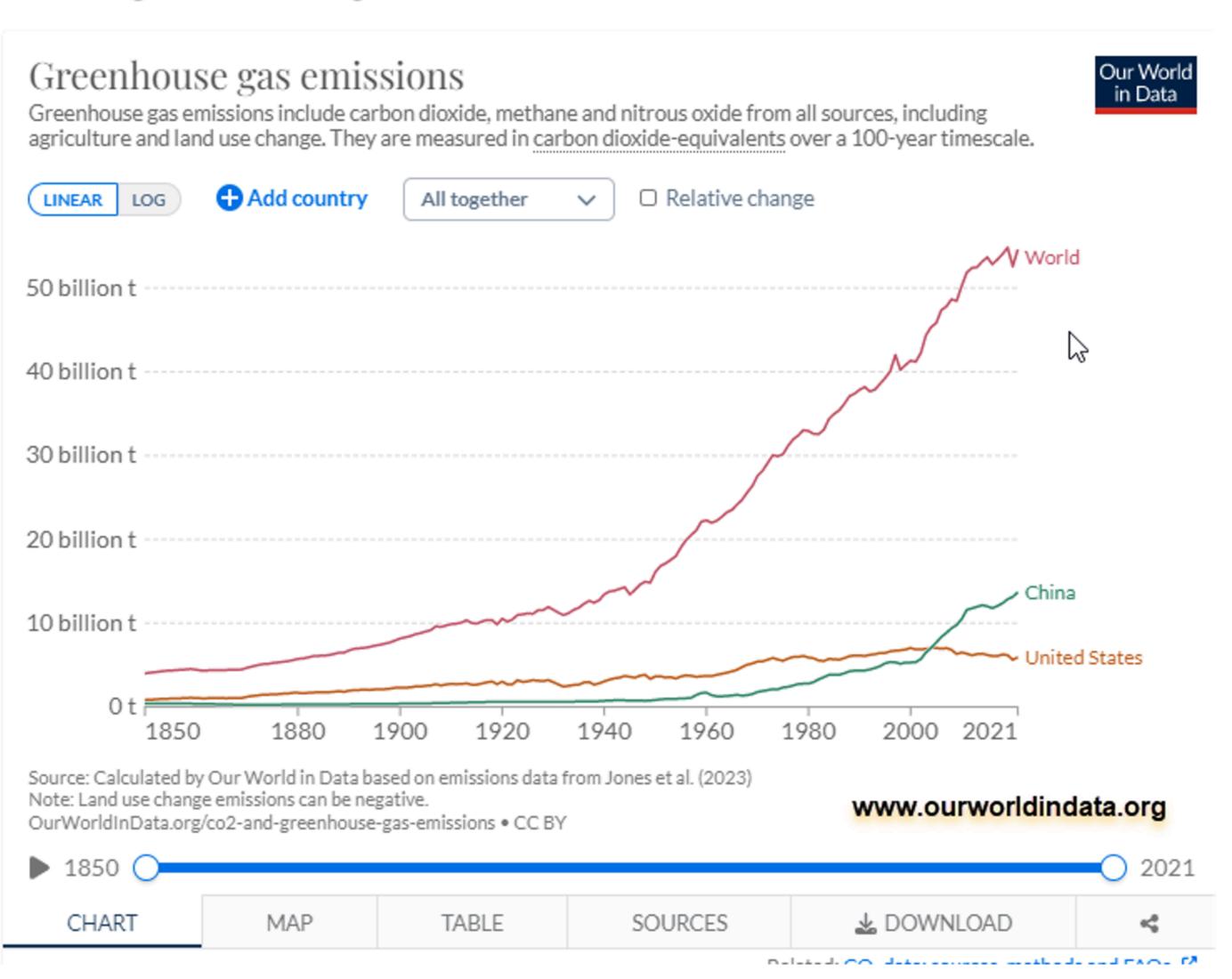




To be sustainable the earth needs below 5GtCO2e per annum. Excluding any carbon capture technology.

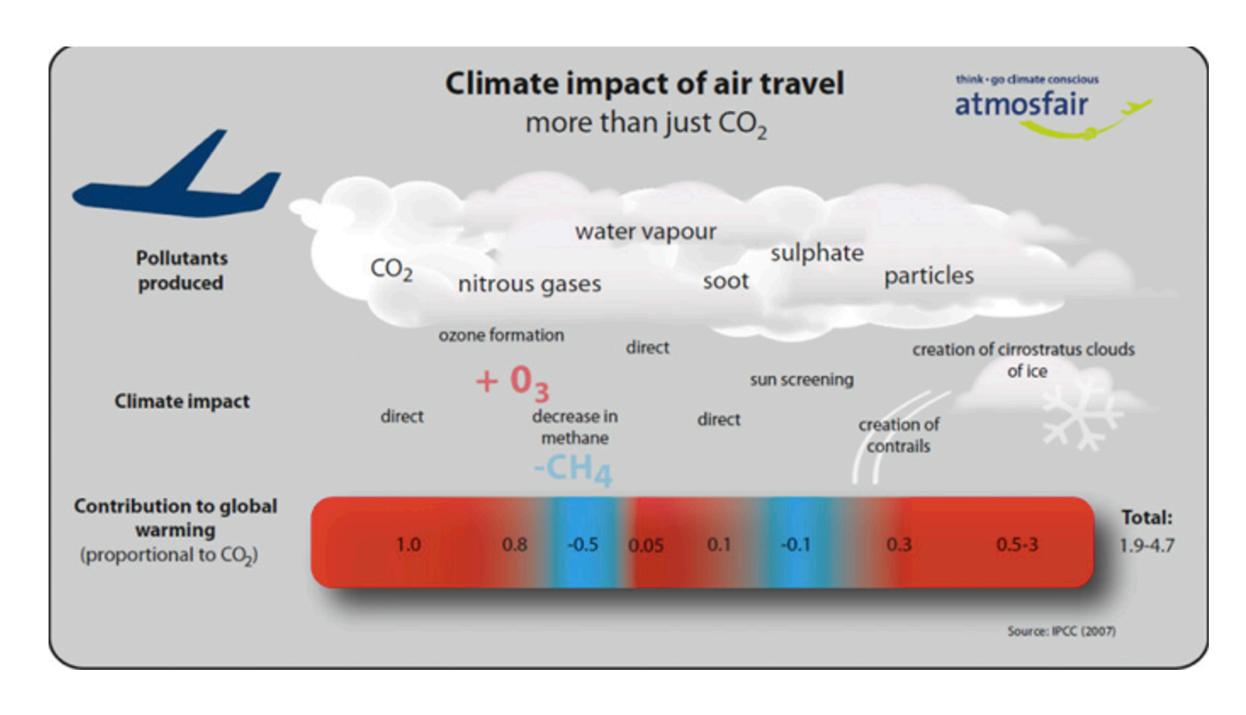
### World GHG Emission with time

#### Global greenhouse gas emissions



### **GHG Emission From Aviation Industry**





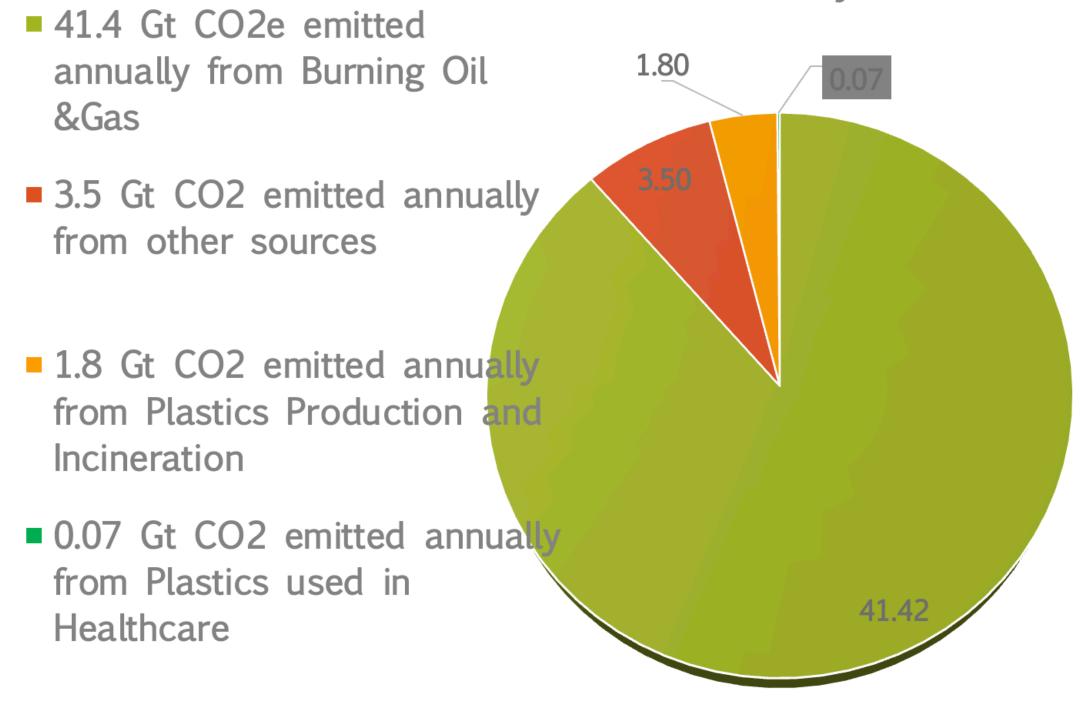
PM2.5 and UFP role on cancer and meningitis is well established.

- 70% GHG emission from jet fuel is carbon dioxide.
- Boeing 737 or Airbus A321 uses 3 to 5 tons of jet fuel per hour producing 9 to 15 tons of CO2e per hour.
- 30% of CO2 emitted absorbed naturally over 30 years.
- 50% of CO2 disperses over a few 100 years.
- 20% of CO2 emitted stays in the atmosphere for 1000 of years.
- If global commercial aviation had been a country, in 2019 its national GHG emissions would rank number six in the world.
   Equivalent to the UK and Germany combined

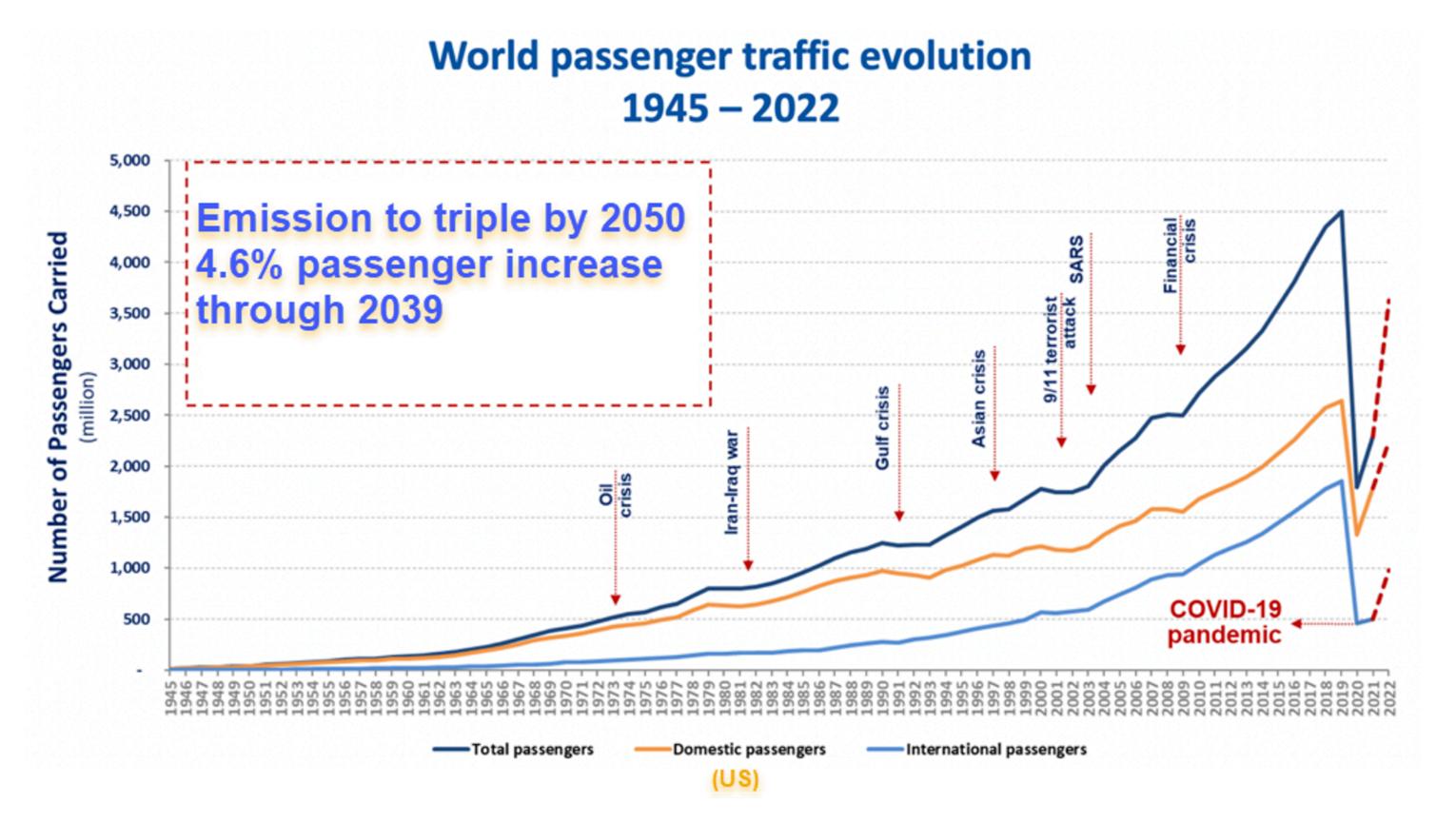
## CO2 Emission from Flying and Driving

- About 100m barrels of oil extracted daily.
- 4m to 6m barrels of oil is used in plastic industry.
- 400m tons of plastic produced in 2021
- 4 1.4 Gt of CO2e is produced from burning fossil fuels
- Plastics contributes 2 to 4 % to the global CO2 emission.
- A PET bottle weights 10g and 54g of CO2 is produced for making and shaping it.
- If you fly on Airbus321 with 230 passenger on board for 1 hr on air the pane emits equivalent of 742 PET bottles per passenger.
- Burning a 46Liters tank fuel of my car, I will produce CO2 equivalvant to 2444 PET bottles.

#### 45 Gt of CO2e Emmited Globally in 2019



- 99% of global population breathe polluted air that exceeds WHO guideline limits.
- Annually 7 million die prematurely as result of all sources of air pollution (WHO)
- 90% of children breath PM2.5 and 16% die from pollution (BMJ May2023)



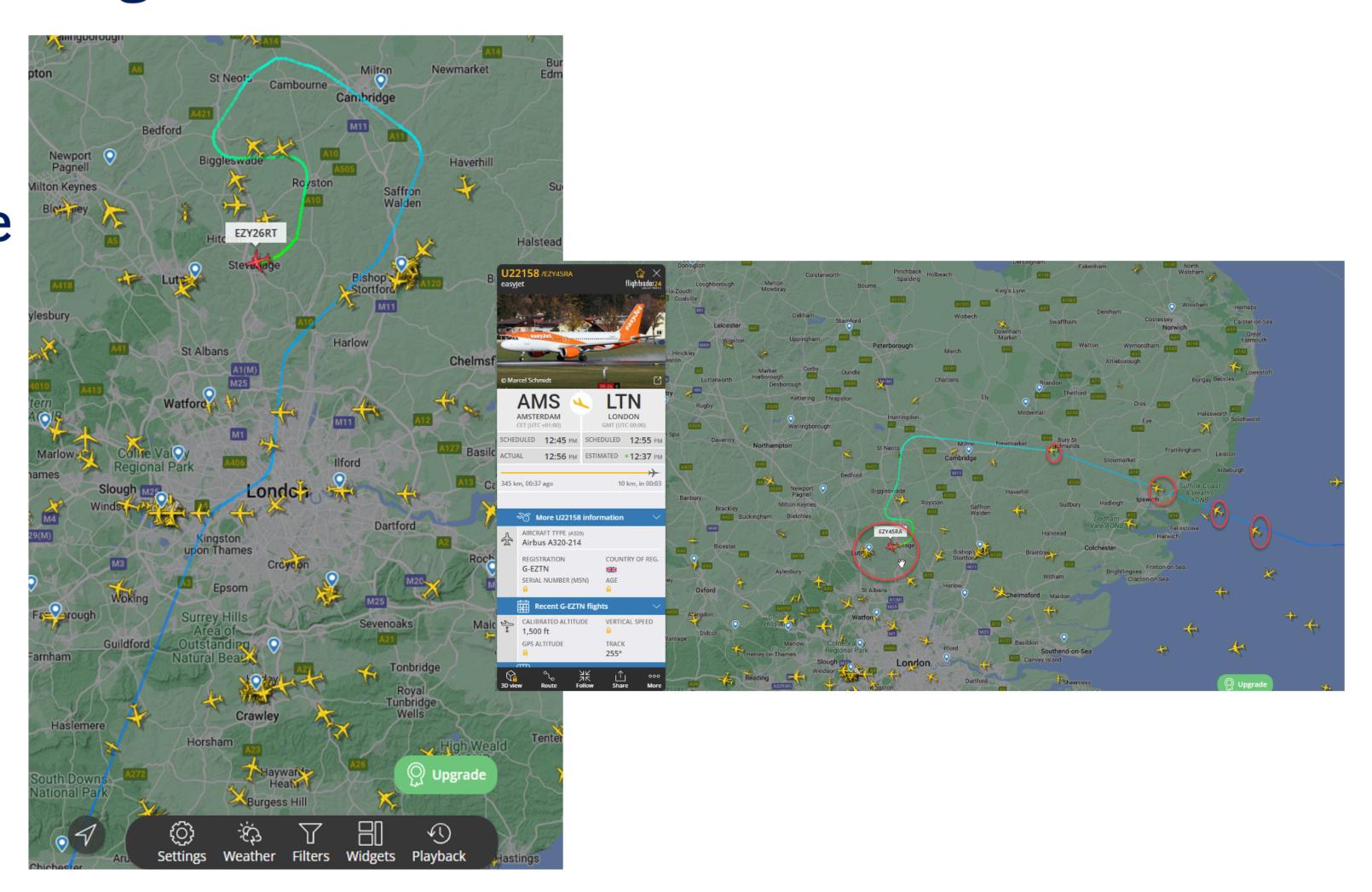


13 July2023

Air travel to double every 15 years" (Air Transport Action Group, ATAG).

### CO2 Pollution from AD6 Design

- 900 tons of CO2 emitted over Cambridgeshire between 5 May to 22<sup>nd</sup> June 2022 (43 days).
- 30% of it is extra emission due extra distances the planes take.
- Bad AD6 design.



## Q3 2022 vs Q3 2021 LLA

- Number of passengers roughly doubled
- Night flight also doubled
- Noise complaints reduced x3 times
- Other complaints related to AD6 increased.

Total Passenger Number         ↑         4,252,586         1,850,214           Total Aircraft Movements         ↑         34,990         21,725           Night Movements (23.00 − 06.59)         ↑         5,005         2,320           Early Morning Movements (06.00 − 06.59)         ↑         1,276         947           Aircraft Movement and Quota Count limits (per rolling 12-month period)         1,276         947           Night Quota Movements (9,650 limit)         ↑         8,287         2,988           Night Quota Count (3,500 limit)         ↑         2,703.625         1208.00           Early Morning Shoulder (7,000 movements)         ↑         4,535         1,825           24hr CDA (% achievement)         ↑         94%         93%           Day CDA (% achievement)         ↑         94%         93%           Night CDA (% achievement)         ↑         94%         93%           Track Violations         ↑         19         7           Departure Noise Infringements (Day)         ↑         0         3           Departure Noise Infringements (Night)         ↑         1         0           No. Day (Night) > 80 dB(A)         ↑         1,199 (211)         408 (12)           No. Day (Night) > 70 dB(A)         ↑ </th <th>Parameter</th> <th></th> <th>3<sup>rd</sup> Quarter 2022</th> <th>3<sup>rd</sup> Quarter 2021</th>	Parameter		3 <sup>rd</sup> Quarter 2022	3 <sup>rd</sup> Quarter 2021
Night Movements (23.00 - 06.59)	Total Passenger Number	<b>^</b>	4,252,586	1,850,214
Early Morning Movements (06.00 − 06.59)  Aircraft Movement and Quota Count limits (per rolling 12-month period)  Night Quota Movements (9,650 limit)  Night Quota Count (3,500 limit)  Early Morning Shoulder (7,000 movements)  24hr CDA (% achievement)  Day CDA (% achievement)  Night CDA (% achievement)  Track Violations  Departure Noise Infringements (Day)  Departure Noise Infringements (Night)  No. Day (Night) > 80 dB(A)  No. Day (Night) > 70 dB(A)  Night Noise Contour Area (48 dB L <sub>Aeq.8h</sub> )  Norigin of Concerns  (>5 Complainants)  Taking Movements (06.00 − 06.59)  ↑ 1,276  947  1,276  947  1,276  947  1,276  947  4,828  2,988  1208.00  1208.0	Total Aircraft Movements	<b>1</b>	34,990	21,725
Aircraft Movement and Quota Count limits (per rolling 12-month period)  Night Quota Movements (9,650 limit)  Aight Quota Count (3,500 limit)  Early Morning Shoulder (7,000 movements)  24hr CDA (% achievement)  Day CDA (% achievement)  Night CDA (% achievement)  Track Violations  Departure Noise Infringements (Day)  Departure Noise Infringements (Night)  No. Day (Night) > 80 dB(A)  No. Day (Night) > 75 dB(A)  No. Day (Night) > 70 dB(A)  Noise Complaints  Noise Complaints  Complainants  Number of New Complainants  Largest Source of Lompiaints  (>5 Complainants)  Aight Noise Complainants  Cambridge  Page 8  R287  R2,988  R2,87  R2,988  R2,988  R2,703.625  1208.00  R4,948  93%  Page 93%  Pag	Night Movements (23.00 – 06.59)	<b>1</b>	5,005	2,320
(per rolling 12-month period)       Night Quota Movements (9,650 limit)       ↑ 8,287       2,988         Night Quota Count (3,500 limit)       ↑ 2,703.625       1208.00         Early Morning Shoulder (7,000 movements)       ↑ 4,535       1,825         24hr CDA (% achievement)       ↑ 94%       93%         Day CDA (% achievement)       ↑ 94%       93%         Night CDA (% achievement)       ↑ 94%       93%         Night CDA (% achievement)       ↑ 94%       93%         Track Violations       ↑ 19       7         Departure Noise Infringements (Day)       - 0       3         Departure Noise Infringements (Night)       ↑ 1       0         Noise Monitor Results*       No. Day (Night) > 80 (B(A)       - 0 (0)       3 (0)         No. Day (Night) > 80 (B(A)       ↑ 1,199 (211)       408 (12)         No. Day (Night) > 70 dB(A)       ↑ 1,199 (211)       408 (12)         No. Day (Night) > 70 dB(A)       ↑ 9,845 (1,544)       4,809 (823)         Night Noise Contour Area (48 dB LAGG, 8h)       ↑ 32.8 km²       25.6 km²         Noise Complainats       ↑ 6,179       1,858         Number of New Complainants       ↑ 6,179       1,858         Origin of Concerns       - Arrivais. West       Deps. West	Early Morning Movements (06.00 – 06.59)	<b>1</b>	1,276	947
Night Quota Movements (9,650 limit)         ↑         8,287         2,988           Night Quota Count (3,500 limit)         ↑         2,703.625         1208.00           Early Morning Shoulder (7,000 movements)         ↑         4,535         1,825           24hr CDA (% achievement)         ↑         94%         93%           Day CDA (% achievement)         ↑         94%         93%           Night CDA (% achievement)         ↑         94%         93%           Night CDA (% achievement)         ↑         94%         93%           Track Violations         ↑         19         7           Departure Noise Infringements (Day)         -         0         3           Departure Noise Infringements (Night)         ↑         1         0           Noise Monitor Results*         *         0         0         3           No. Day (Night) > 80 (B(A)         -         0 (0)         3 (0)           No. Day (Night) > 75 &B(A)         ↑         1,199 (211)         408 (12)           No. Day (Night) > 70 dB(A)         ↑         9,845 (1,544)         4,809 (823)           Night Noise Complaints         ↑         6,179         1,858           Complainants         ↑         395         196	Aircraft Movement and Quota Count limits			
Night Quota Count (3,500 limit) Early Morning Shoulder (7,000 movements)  24hr CDA (% achievement)				
Early Morning Shoulder (7,000 movements)  24hr CDA (% achievement)  Day CDA (% achievement)  Night CDA (% achievement)  Track Violations  Departure Noise Infringements (Day)  Departure Noise Infringements (Night)  Noise Monitor Results*  No. Day (Night) > 80 dB(A)  No. Day (Night) > 75 dB(A)  No. Day (Night) > 70 dB(A)  Noise Complainats  Noise Complainats  Complainants  Origin of Concerns  (>5 Complainants)  A 4,535  4,535  1,825  4,835  1,825  4,835  1,825	Night Quota Movements (9,650 limit)	<b>1</b>	8,287	2,988
24hr CDA (% achievement) Day CDA (% achievement) Night CDA (% achievement)  Track Violations Departure Noise Infringements (Day) Departure Noise Infringements (Night)  Noise Monitor Results* No. Day (Night) > 80 dB(A) No. Day (Night) > 75 dB(A) No. Day (Night) > 70 dB(A) Night Noise Contour Area (48 dB LAEQ. 8h)  Noise Complainants Complainants Complainants Complainants Origin of Concerns (>5 Complainants)  ↑ 9,845 (1,544) 1,199 (211) 1,858 1,85		<b>1</b>	2,703.625	1208.00
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Track Violations Track Violations  Departure Noise Infringements (Day) Departure Noise Infringements (Night)  Noise Monitor Results*  No. Day (Night) > 80 dB(A) No. Day (Night) > 75 dB(A) No. Day (Night) > 70 dB(A) No. Day (Night) > 70 dB(A) Night Noise Contour Area (48 dB LAEG. 8h)  Noise Complainants  Noise Complainants  The Arrivals west Origin of Concerns (>5 Complainants)  The Age of the Argentian Breachwood Green (South Harpenden)  The Arrivals of the Argentian Breachwood Green (South Harpenden)	24hr CDA (% achievement)	<b>^</b>	94%	93%
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Departure Noise Infringements (Day) Departure Noise Infringements (Night)  Noise Monitor Results*  No. Day (Night) > 80 dB(A) No. Day (Night) > 75 dB(A) No. Day (Night) > 70 dB(A) No. Day (Night) > 70 dB(A) Night Noise Contour Area (48 dB L <sub>Aeq. 8h</sub> )  Noise Complaints Complainants Number of New Complainants  Largest Source or Complaints Origin of Concerns (>5 Complainants)  Cambridge  Departure Noise Infringements (Day)  1 0  3 0  1 0  3 (0) 1 1,199 (211) 1 408 (12) 1	Night CDA (% achievement)	<b>1</b>	94%	93%
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No. Day (Night) > 75 dB(A)  No. Day (Night) > 70 dB(A)  Night Noise Contour Area (48 dB L <sub>Aeq.8h</sub> )  Noise Complaints  Complainants  Number of New Complainants  Corigin of Concerns  (>5 Complainants)  Noise Complainants		-	0 (0)	3 (0)
No. Day (Night) > 70 dB(A) Night Noise Contour Area (48 dB L <sub>Aeg. 8h</sub> )  Noise Complaints Complainants Number of New Complainants  Largest Source of Complaints Origin of Concerns (>5 Complainants)  No. Day (Night) > 70 dB(A)  9,845 (1,544) 4,809 (823)  4,809 (823)  4,809 (823)  6,179 1,858  78 217 78  - Arrivals. West Deps. West Origin of Concerns (>5 Complainants)  St Albans Cambridge Harpenden		<b>1</b>		
Noise Complaints Complainants Number of New Complainants  Corigin of Concerns (>5 Complainants)  Night Noise Contour Area (48 dB L <sub>Aeq. 8h</sub> )  ↑ 6,179 1,858 ↑ 395 196 ↑ 217 78  - Arrivals. West Origin of Concerns (>5 Complainants)  ↑ St Albans Cambridge  ↑ Reachwood Greens Flamstead Cambridge				
Complainants Number of New Complainants  Largest Source of Complaints Origin of Concerns (>5 Complainants)  Arrivals. west - Harpenden St Albans Cambridge Harpenden	Night Noise Contour Area (48 dB L <sub>Aeg. 8h</sub> )	<b>^</b>		25.6 km <sup>2</sup>
Complainants Number of New Complainants  Largest Source of Complaints Origin of Concerns (>5 Complainants)  Arrivals. west - Harpenden St Albans Cambridge Harpenden	Noise Complaints	<b>1</b>	6,179	1,858
Number of New Complainants  Largest Source of Complaints  Origin of Concerns (>5 Complainants)  Arrivals. west  Harpenden  St Albans Cambridge  Harpenden	·		·	·
Origin of Concerns - Harpenden Breachwood Gree (>5 Complainants) - St Albans Flamstead Cambridge Harpenden	Number of New Complainants		217	78
(>5 Complainants) St Albans Flamstead Cambridge Harpenden	Largest Source of Complaints	-	Arrivais. West	Deps. west
Cambridge Harpenden	Origin of Concerns	-	Harpenden	Breachwood Green
	(>5 Complainants)		St Albans	Flamstead
Luton Hitchin			Cambridge	Harpenden
			Luton	Hitchin
Sandy Luton			Sandy	Luton
Knebworth St Albans				St Albans
Wheathampstead Stevenage			Wheathampstead	Stevenage
Potton Tring				_
Leighton Buzzard Wheathampstea Hitchin				Wheathampstead
Flamstead				
Gamlingay				
Abbotsley				
Caddington				

## activities



- RELAS formed in early 2022 data gathering started
- public meetings held in july 2022 and february 2023 to raise awareness
- guidance was provided on how to, and who to, complain to
- the Facebook group has been growing steadily
- some engagement with councils, MPs and potentially with ministers
- attended meetings with LLA, NATS, CAA, MPs and councils

## progress

- adjournment debate held on 9th january to raise AD6 with the aviation minister
  - revise guidance to reflect differing ambient noise levels urban vs rural
  - request CAA to extend the review by a further 3 months
  - request review of CAP1616 process for airspace change for AD6 and future consultations to ensure there is independent analysis once a flight path design is implemented
  - ensure NATS hold to their word and provide the flight movements data as promised at the Arrington meeting on 6th october
  - <a href="https://www.anthonybrowne.org/news/anthony-fights-residents-impacted-flight-path-changes">https://www.anthonybrowne.org/news/anthony-fights-residents-impacted-flight-path-changes</a>
- PIR stage 7 has been further extended to september 2023
- CAP1616 to be (potentially) reviewed and upgraded

# guidance what can you do...

- residents must complain whenever affected
- complain to your councillors and your MP
- attend public surgeries make your views known
- call for AD6 to be re-consulted and re-designed or ideally abandoned

- use social media to highlight this creeping menace
- if you have expertise please help

- don't just accept this because
  - you feel you won't be listened to
  - somewhere has to suffer this blight

# guidance how to complain

- guidance can be found on the website and the Facebook group
- do either or both of the following...
  - use the LLA complaints portal at <a href="https://travisltn.topsonic.aero">https://travisltn.topsonic.aero</a>
  - email noise@ltn.aero include full name, address, postcode
- we recommend always emailing your councillors AND particularly your MP
- copy emails to CAA and NATS
- explain how the incident has affected you
- use tools such as FlightRadar24 to identify the offending aircraft

## guidance how you can help



- join RELAS Facebook group (<a href="https://www.facebook.com/groups/relas.ad6">https://www.facebook.com/groups/relas.ad6</a>)
- see the RELAS website for information (www.relas.uk)
- sign the petition at <a href="https://www.change.org/p/stop-luton-airport-aircraft-noise">https://www.change.org/p/stop-luton-airport-aircraft-noise</a>
- register for updates with the CAA
- spread the word family, friends, neighbours
- complain, complain and complain again

## key takeaways

- review process runs to september 2023
- current flight volumes are "just the tip of the iceberg"
- growth via under-utilised airspace (time) windows and addition of night flights
- we could be subject to 2 aircraft per minute for 21 hours per day
- AD6 is "apparently not a done deal"

- complain and keep complaining don't assume others are doing this
- this matter rests squarely in the hands of our MPs
  - but they must be encouraged at every opportunity

## next steps

#### actions & desired outcomes

- crowdfunded legal challenge at the end of PIR Stage 7
- impress upon our MPs to seek re-consultation or abandonment
- if reconsulted
  - sponsors must do it properly, fully & completely including ALL those affected
  - materials that can be consumed by the average resident
  - options that are in fact [meaningful] options
  - consultation to be conducted post CAP1616 revisions
  - abandoned until a better design is proposed, tested and accepted or not at all

## guest speakers

#### Councillor Bridget Smith

District Councillor for Gamlingay & Leader of South Cambridgeshire District Council

#### Councillor Stephen Ferguson

Independent County Councillor for St Neots East & Gransden Chair of Cambridgeshire County Council

#### Councillor Dr Tumi Hawkins

Lead Cabinet Member for Planning, South Cambridgeshire District Council

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## questions & answers