



Managing noise at East Midlands Airport

South Derbyshire DC - Overview and Scrutiny Committee, 24 November 2021

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INTRODUCTION TO EAST MIDLANDS AIRPORT

Connecting the East Midlands to the world

- 4.8m passengers travelling to over 80 destinations
- 440,000 tonnes of cargo is handled at the airport each year (1,200 tonnes each day or 1 million individual items each day)

A nationally strategic cargo operation

- 92% of England and Wales is within a 4 hour truck drive

Night operations at EMA

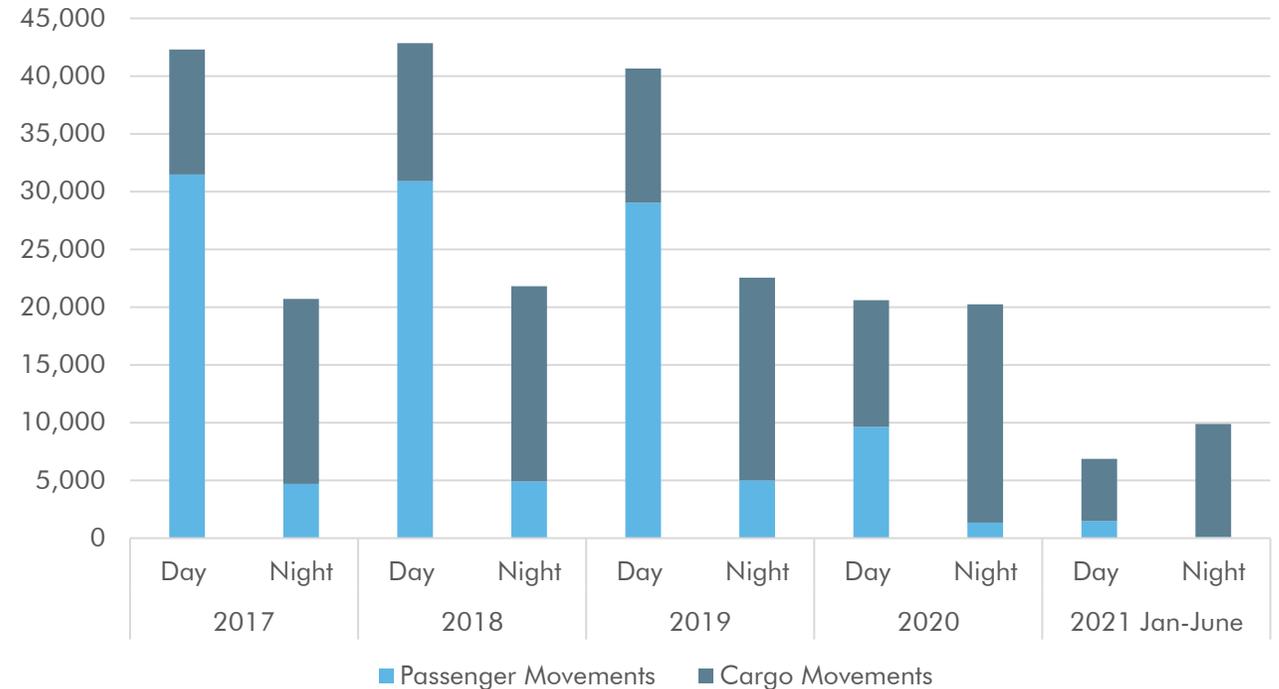
- Essential to the business case for based passenger airlines
- 60% of cargo tonnage handled at night (2300-0700)
- £135 million direct GVA and 2,850 direct jobs
- 96% of EMA's GVA contribution due to cargo operations

Employment and economic benefit for the region

- Over 9,000 people employed, more than 100 airport businesses
- £500m GVA to the regional economy
- £1bn economic uplift to regional businesses

Supporting the people of South Derbyshire

- 658 airport employees living in South Derbyshire
- 1 in every 73 employed South Derbyshire residents work at EMA



OUR APPROACH TO CORPORATE RESPONSIBILITY

Zero Carbon Airports

- First Carbon Neutral UK airport (2012)
- Targeting net zero carbon no later than 2038
- Supporting decarbonisation of entire aviation industry

Opportunity for All

- We want people to share the benefits of our airport, locally and regionally
- Support to local schools in careers fairs and employability skills
- Recent initiatives with the following schools: William Allitt, Granville and Pingle Academy (Swadlincote), Chellaston Academy and John Port School (Etwall)

Local Voices

- Noise as a key strategic priority
- EMA Community Fund has provided over £1.1m to more than 1,400 community groups since 2002
- So far this year, the Fund has supported 21 Derbyshire organisations (8 based in South Derbyshire, receiving £11.5k)



ZERO CARBON AIRPORTS

Building on our platform of carbon neutrality, we are committed to cutting any remaining reliance on fossil fuels, whilst working alongside our partners to reduce the waste and emissions of activities related to our operation. Our influence extends beyond our own business, and we commit to working in partnership with the wider aviation industry to build a more sustainable future of transport.



OPPORTUNITY FOR ALL

We commit to creating quality employment. We believe in providing opportunity for all, in a safe, inclusive and diverse environment where colleagues are able to fulfil their potential and better meet the needs of our customers. Our influence extends beyond our own business, and we commit to working with all of our partners on our airport sites to ensure high standards are upheld by all.



LOCAL VOICES

We are dedicated to addressing the local issues which matter most to the people living near us. We commit to engaging local voices, addressing noise and other local priorities, and providing opportunities for local people and businesses. We will build trust with our communities and aim to improve their quality of life.



NOISE ACTION PLAN

Noise Action Plan (NAP):

- Legal requirement (Environmental Noise Regulation)
- Developed through widespread public consultation
- Approved by the Secretary of State

Reviewed every five years, current plan for 2019-23

Key deliverables from the NAP include:

- More stringent compliance targets for operational procedures
- Phasing out noisier aircraft at night and increasing the proportion of aircraft which meet the latest noise standard
- Introducing an additional surcharge for noisier night flights
- Installation of a new noise monitor at Melbourne
- Development and publication of Quieter Flight Performance Report league tables
- Extensive sound insulation grant scheme



MEASURING AND MONITORING NOISE

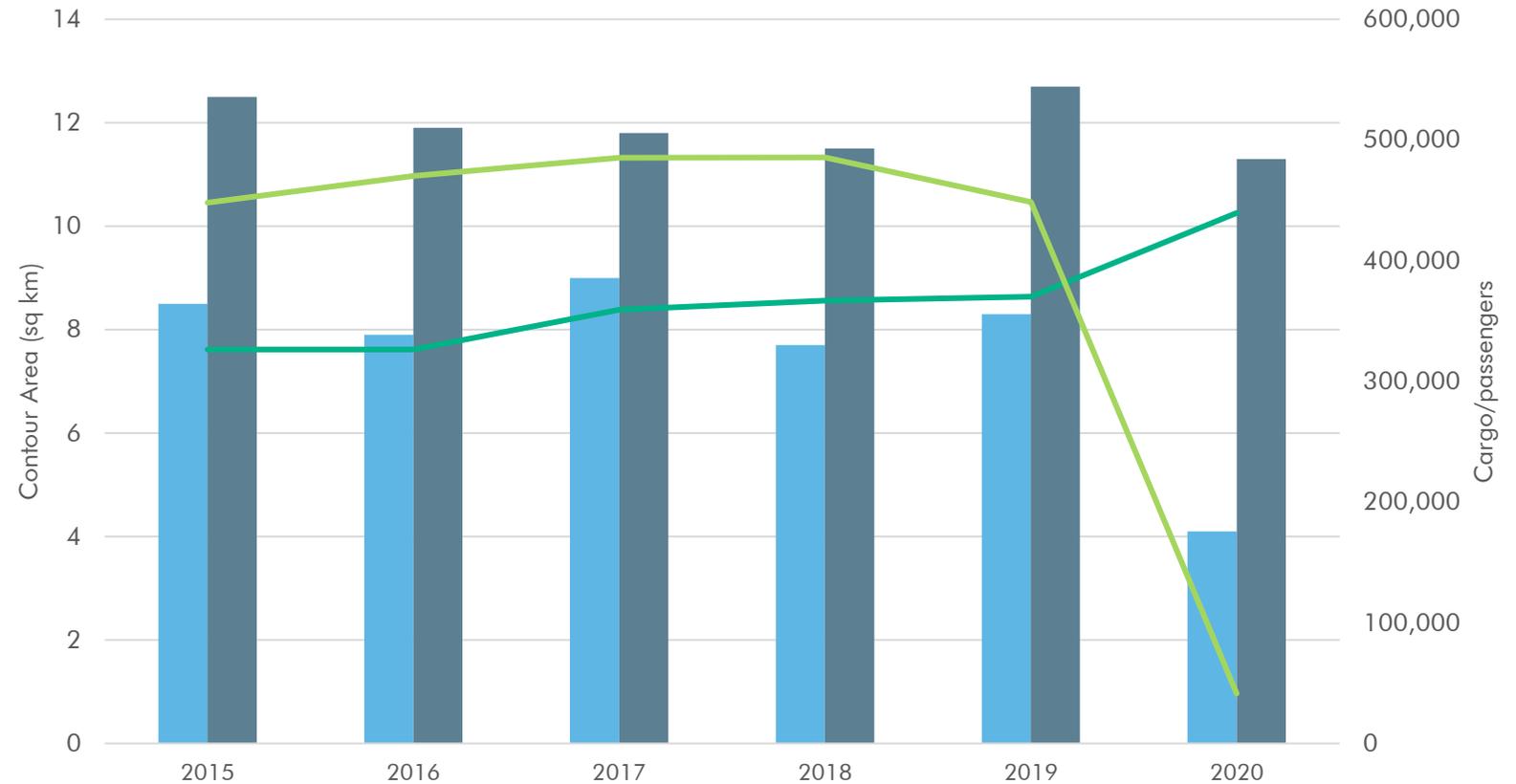
Five fixed noise monitors, including at Weston-on-Trent, providing community insight and enabling noise penalty scheme

Production of annual noise contours, providing industry and government standard assessment of noise environment

Noise contours produced at 57 decibels (dB) in the day-time and 55dB at night

- Equivalent to the sound energy of an electric toothbrush, which typically has a noise level of 50-60dB

EMA has a legally binding agreement that the area of the 55dB night contour (measured across a 92-day summer) will not exceed 16 km².



- Area of Day-time Noise Contour (57dB LAeq, 16h 92-day summer)
- Area of Night Noise Contour (55dB LAeq, 8h 92-day summer)
- Tonnes Cargo
- Number of Passengers (/10)

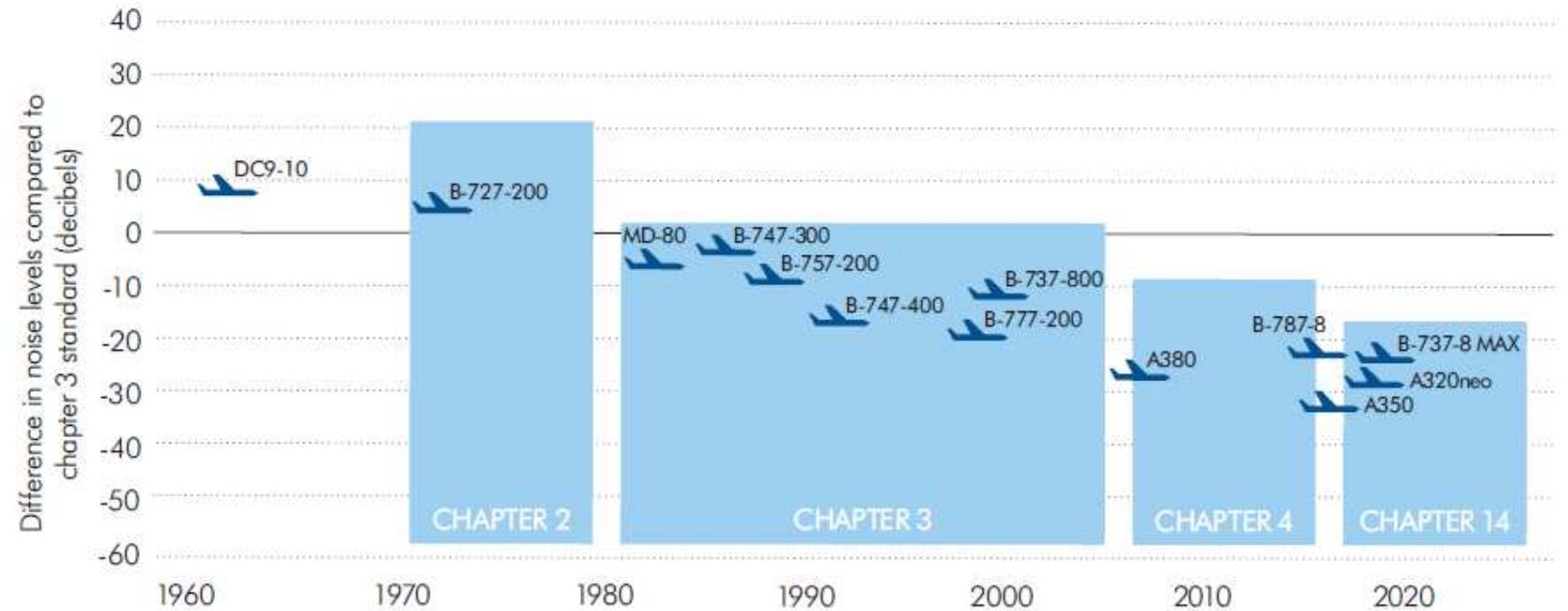
AIRCRAFT TECHNOLOGY DRIVING QUIETER OPERATIONS

EMA is committed to encouraging the use of quieter aircraft

Aircraft are required to meet noise standards when first certified. 'Chapter 14' is the most recent standard, required of all newly certified aircraft types from 2019

So far in 2021:

- 99.9% of night operations meet the 'Chapter 4' noise standard
- 25% of night operations meet the 'Chapter 14' noise standard



PROGRESSIVE AIRCRAFT NOISE CERTIFICATION STANDARDS

REDUCING NOISE AT SOURCE

Incentivising quieter aircraft

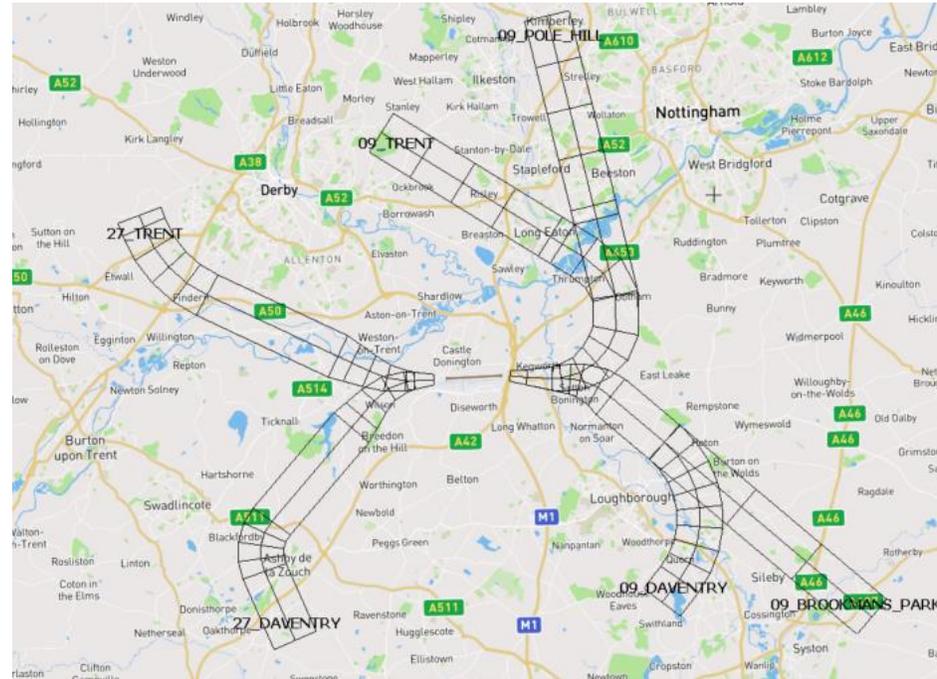
- Noise surcharges to deter use of QC16, QC8 and QC4 aircraft at night (eg. Boeing 747-400 departures)
- All charges passed to the EMA Community Fund

Reducing noise from aircraft operations

- Departing aircraft required to follow departure routes designed to reduce the population overflown
- Monitoring of performance for all flights, including training flights, supported by airline engagement to reduce noise experienced on the ground

Enforcing noise limits

- Five community noise monitors
- Three (Wilson, Weston-on-Trent and Sutton Bonington) used to levy noise penalties on flights exceeding noise limits



NOISE MONITOR LOCATIONS AROUND EAST MIDLANDS AIRPORT

OPPORTUNITIES TO ENGAGE: HELPING US TO MANAGE NOISE

Investigating and responding to all noise complaints

- Online 'WebTrak' radar replay facility
- Community feedback directly informs noise management

Ongoing community engagement

- Independent Consultative Committee, including (South Derbyshire representatives)
- Community outreach programmes, including Parish Councils

Future airspace programme

- Contributes to national and European airspace modernisation
- Unlocking the potential of modern aircraft
- Widespread public consultation
- Sign up for updates online (ADD URL)

Noise Action Plan (NAP) review

- NAP reviewed every five years
- Next consultation late 2022/early 2023 (Government guidance awaited)

