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ENVIRONMENT



ICAO Environmental
Symposium 2019

DESTINATION GREEN: THE NEXT CHAPTER



The ICAO Basket of Measures on CO₂ Emissions Mitigation – Focus on Operations

Ian Jopson

Head of Environmental and Community Affairs

NATS, UK





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2.45 million flights.



Over 250 million passengers



13 of the busiest UK airports



World's first:
environmental targets



NATS



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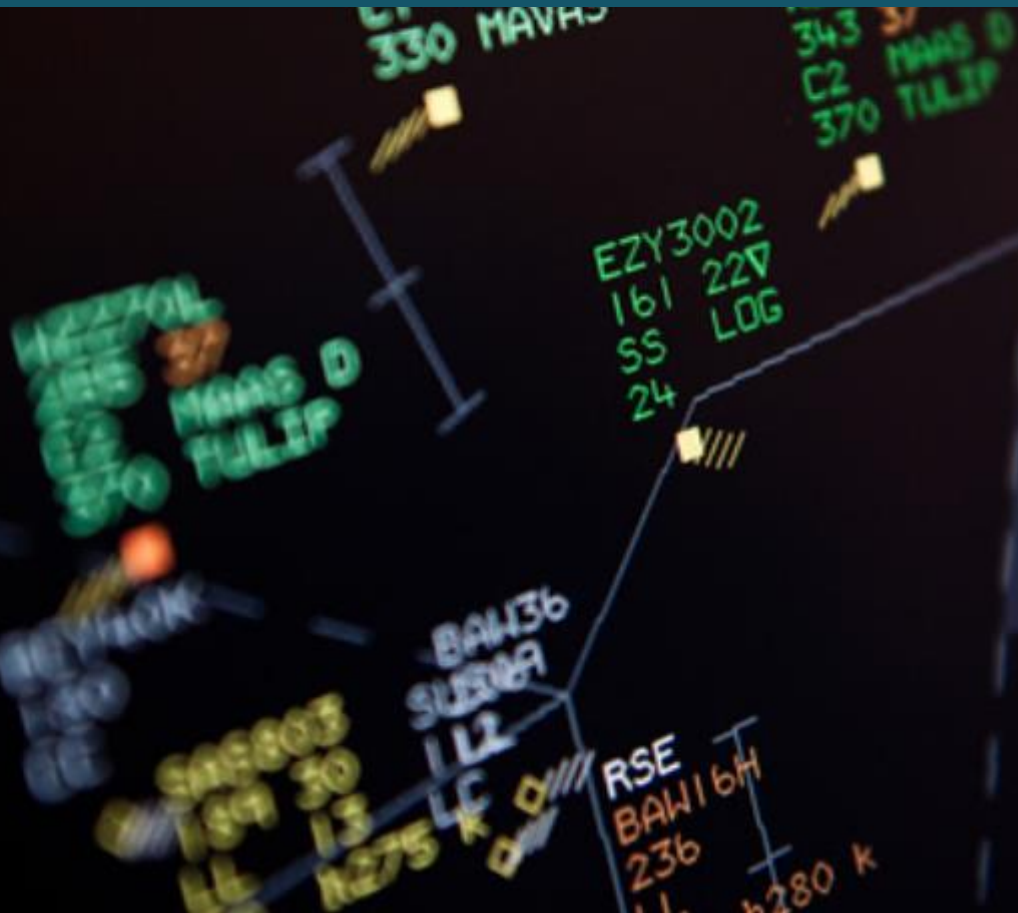


“Without a complete modernisation of the airspace structures above us delays are set to soar to fifty times their current levels, costing over £1bn a year, some of which is passed on to customers. Basically, we have the equivalent of a road network in the sky that’s fast losing the ability to keep pace with demand. Think of what would happen if you tried to put a million more vehicles on our existing roads!”

Martin Rolfe, CEO



iFACTS





World's first virtual control facility



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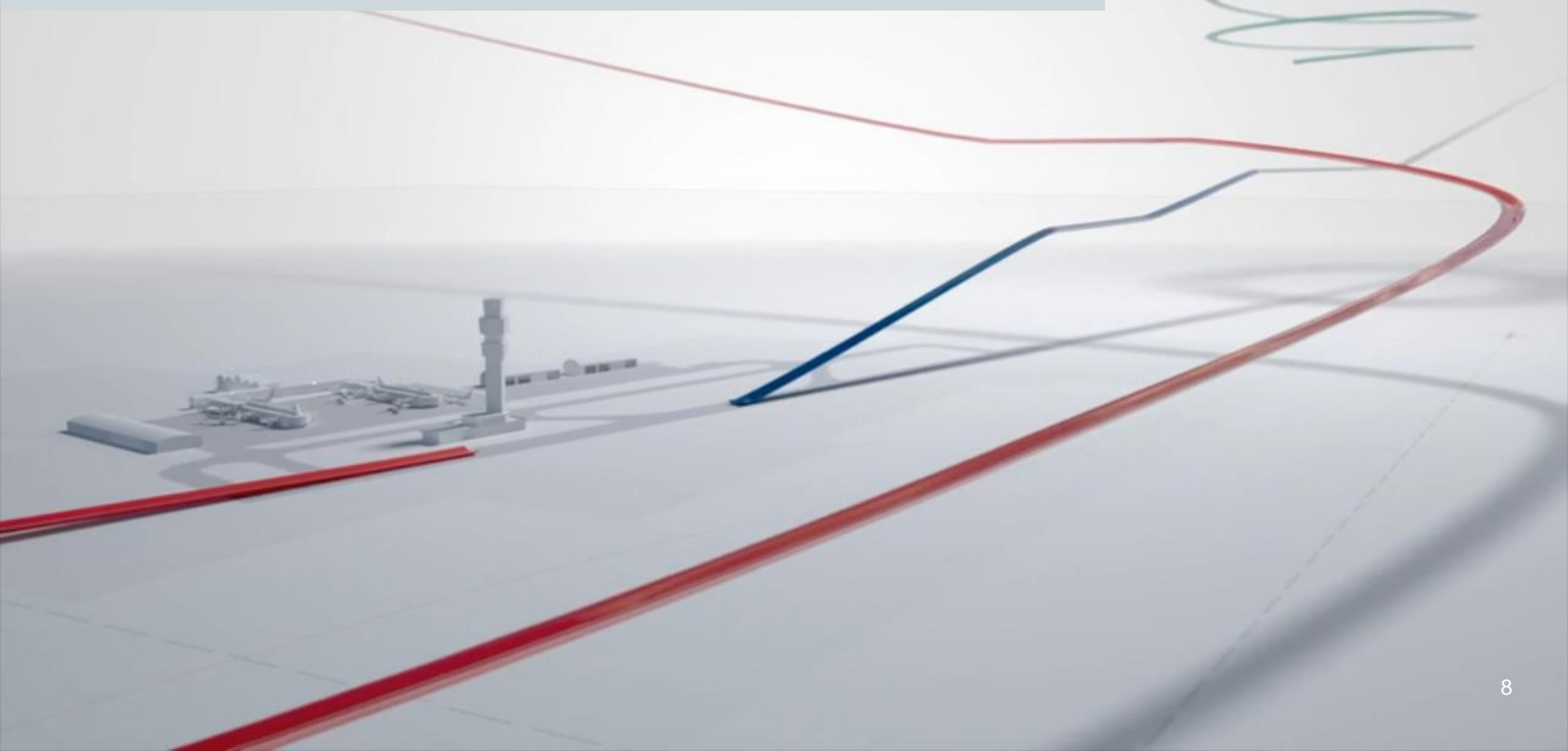


Digital Towers





Sat Nav for aircraft





XMAN Cross Border Efficiency

XMAN



Reduced holding

115,000 minutes
less holding every
year



Reduced fuel

4,500 tonnes of fuel
per year

Reduced CO₂

15,000 tonnes of
CO₂ per year



FloSys - Flight Optimisation System



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This is a prototype tool to provide representations of flight profiles and approximations of 3Di scores. It must not be used as an input to operational decision making.

flosys

LIV

📍 Swanwick

📅 From 18 Nov 2014 00:00z to 18 Nov 2014 23:59z

🔄 Last updated at 17:18z

DASHBOARD LOG82WR Swanwick



22% 🛩️ 18% 🛩️ 0% 🛩️ 61% 🛩️

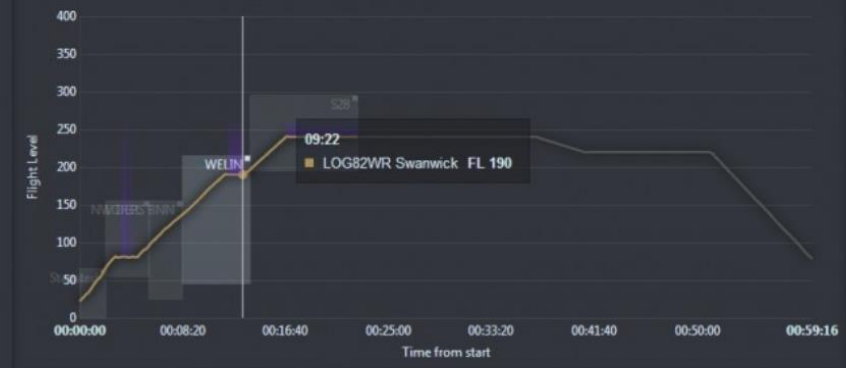
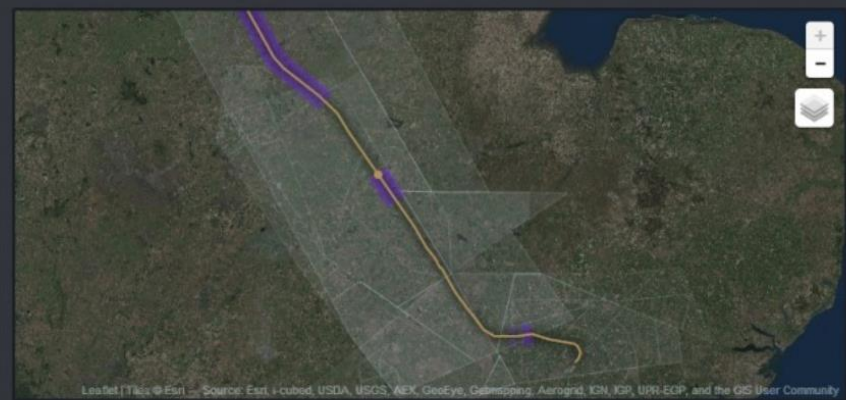
Filter flights by callsign, airfield, route or sector 🔍

DELTA	FLIGHT	3Di	AVG	DEP	DES	ENTRY
	LOG82WR	11.0	8.7	EGSS	EGPN	18 Nov 09:09
SSR 7732 TYPE D328 RFL 260 EXIT 09:31						
ROUTE EGSS:T420..UN57.POL.UN601.EGPN						
AIRSPACE	DELTA	3Di	AVG	ENTRY		
TC		14.3	15.4	09:09		
- TC Approach		39.6	30.4	09:09		
-- Stansted		39.6	30.4	09:09		
- TC North		13.6	9.4	09:11		
-- LOREL		11.4	11.5	09:11		
- NW DEPS BNN		0.12	3.8	09:14		
- TC Midlands		5.1	1.7	09:17		
-- WELIN		5.1	1.7	09:17		
AC		6.2	1.2	09:23		

« 1 50 51 52 53 54 65 » 3202 flights

BEST

LOG65KL	3.3	8.7	EGSS	EGPN	22 Aug 17:43
SSR 6333 TYPE D328 RFL 260 EXIT 18:11					
ROUTE EGSS:T420..UN57.POL.UN601.EGPN					





Oceanic Surveillance Improvements



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North American
Central American
and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima

ICAO
Headquarters
Montréal

Western and
Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok



THANK YOU