



RLA/06/901 – Sexta Reunión del Grupo de Estudio e Implantación del Espacio Aéreo SAM – GESEA/6 (Virtual, 1 al 3 de marzo del 2023)

Beneficios estimados de la implantación EDE



*“ Lo que no se define no se puede medir.
Lo que no se mide , no se puede mejorar.
Lo que no se mejora, se degrada siempre.”*

William Thomson

Lord Kelvin



STRATEGIC DIRECT ROUTING ESTIMATED BENEFITS IN 8 FIRs

FIR PANAM	1 WEEK	1 YEAR
DIST NM	357.1	18,569.2
FUEL KG	1,607.0	83,561.4
CO2 KG	5,078.0	264,054.0

FIR MAIQUETIA	1 WEEK	1 YEAR
DIST NM	103	5,366
FUEL KG	464	24,149
CO2 KG	1,468	76,310

FIR GUAYAQUIL	1 WEEK	1 YEAR
DIST NM	41.1	2,137.2
FUEL KG	185.0	9,617.4
CO2 KG	584.4	30,391.0

FIR BRASILIA & CURITIBA	1 WEEK	1 YEAR
DIST NM	525.58	27,330.3
FUEL KG	2,298.3	119,510.7
CO2 KG	7,262.6	337,653.8

ESTIMATION OF 1 YEAR SAVINGS BASED ON 1 WEEK DATA		
SAVINGS	1 WEEK	1 YEAR
FLIGHT DIST.	1,926 NM	100,177 NM
FUEL	8.6 Tons.	447.3 Tons.
CO 2	27.2 Tons.	1,413.5 Tons.

FIR BARRANQUILLA	1 WEEK	1 YEAR
DIST NM	189.0	9,828.0
FUEL KG	850.5	44,226.0
CO2 KG	2,687.6	139,754.2

FIR BOGOTA	1 WEEK	1 YEAR
DIST NM	96.0	4,992.0
FUEL KG	432.0	22,464.0
CO2 KG	1,365.1	70,986.2

FIR LIMA	1 WEEK	1 YEAR
DIST NM	614.5	31,954.0
FUEL KG	2,765.2	143,793.0
CO2 KG	8,738.2	454,385.9

- *SAMPLE: 322 SCHEDULED FLIGHTS (20-26 NOVEMBER 2022)*
- *ESTIMATION FOR BRAZIL, DATA REPORTED BY GOL (JULY 2022) AND AZUL (APRIL -JUNE 2022)*
- *SOURCES: FLIGHTRADAR24, FLIGHTAWARE, NAVIGRAPH*

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4.6 trips around the world

Flight distance savings per year equivalent to 4.6 trips around the world.



9'800,000 Km

CO2 savings per year equivalent to emissions from driving 9.8 Million KM in a medium-sized gasoline car.

Gracias, comentarios?



West Airspace Deployment Benefits

Deployment is a key part UK CAA Airspace Modernisation Strategy (AMS) and part of our roadmap to a simpler, safer and more fuel efficient future for air travel.

Capacity	Fuel Burn Change 2023 (T)	CO ₂ Change 2023 (T)
13% Improvement	-3,808	-12,111

- Systemised ATS Routes means more predictability, less complexity, less tactical intervention
- FRA FL245+
- File It Fly It

NATS

43m miles



Savings equivalent to the total CO₂ emissions from driving 43 million miles in an average petrol car



150,000

nautical miles of flying saved per year for aircraft using this airspace – equivalent to 7 trips around the world



2+

hours cumulative reduction in flying time per day for aircraft using this airspace



12,000+

tonnes of CO₂ reduction per year within UK airspace

Por su parte, un **coche de gasolina** de tamaño mediano emite de media 143 gramos de CO2 por kilómetro; y uno eléctrico similar (recargado con el actual mix eléctrico de producción de la UE) entre un 47% y un 58% menos.

En un **híbrido enchufable**, esta reducción es del 36%. Y en un **diesel**, a pesar de la notoriedad negativa que ha adquirido durante los últimos años, las emisiones de CO2 son inferiores a las de los coches de gasolina.

<https://www.lavanguardia.com/motor/actualidad/20200204/473287321242/guia-definitiva-entender-contaminan-coches.html>