The Broadcast Myth: A comfortable proximity.

The Operational Reality: An ultraperiferic frontier

The broadcast map is a geographic illusion that masks our important operational vulnerability

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The Tenerife Diversion Cascade: Weather, holdings and deviations

⚠ Systemic Challenge Text Box

The incidence of missed approaches at Tenerife airports is the highest among all airports where ENAIRE provides control services.

Case Study

Unable to assume more delays, the flight aborts TFN landing and executes a tactical diversion looking for better conditions at Tenerife South (TFS).

The Hidden Catch

Tenerife South (TFS): During 2017, **655 hours** of wind shear were recorded (7.5% of the time).

Saharan Dust (Calima): Archipelago-Wide Visibility & Aircraft Performance Limits

VISIBILITY REDUCTION

Macro-Scale: Archipelago Inundation

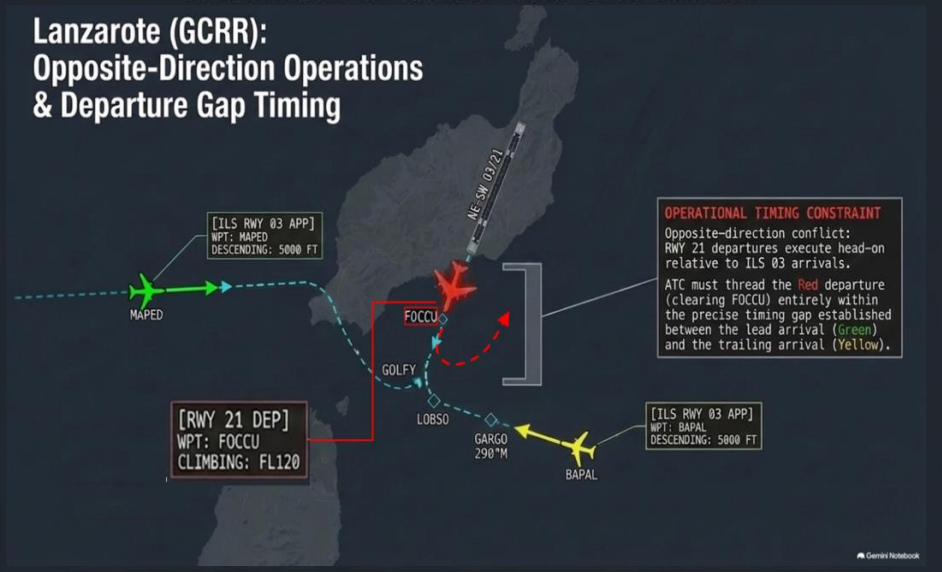
Regional satellite view showing dense particulate plumes severely degrading VFR conditions across the entire archipelago.

Micro-Scale: Airfield-Level Degradation

Airfield-level visibility drop at GCRR. Suppended dust creates severe sepia haze, impacting approach minimums and ground operations.

PERFORMANCE LIMITS

Heat Waves & Operational Constraints



Calima events introduce extreme temperature spikes. The resulting high density altitude reduces MTOW and degrades climb gradients.

These aerodynamic performance limits exacerbate complex ATC timing constraints, leaving virtually zero margin for error during complex opposite-direction operations.

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NETWORK RESILIENCE & MASSIVE DIVERSION MANAGEMENT IN THE CANARY ISLANDS

THE CAPACITY CRUNCH (CONTEXT & THREAT)

Continuous Growth vs. Static Infrastructure

Traffic has surged far beyond 2019 levels across a fixed physical footprint. All five major hubs are experiencing double-digit expansion.

THE TIPPING POINT

Steady pressure pushes capacity to its limits, fracturing during severe meteorological phenomena.

- CALIMA
- LOW VISIBILITY PROCEDURES (LVP)
- WIND SHEAR

MASS DIVERSION PROCEDURE

A specialized operational protocol triggered to ensure service continuity, uncompromised safety, and total network resilience in the Canary Air Region.

ACTION A: GROUND HOLDING

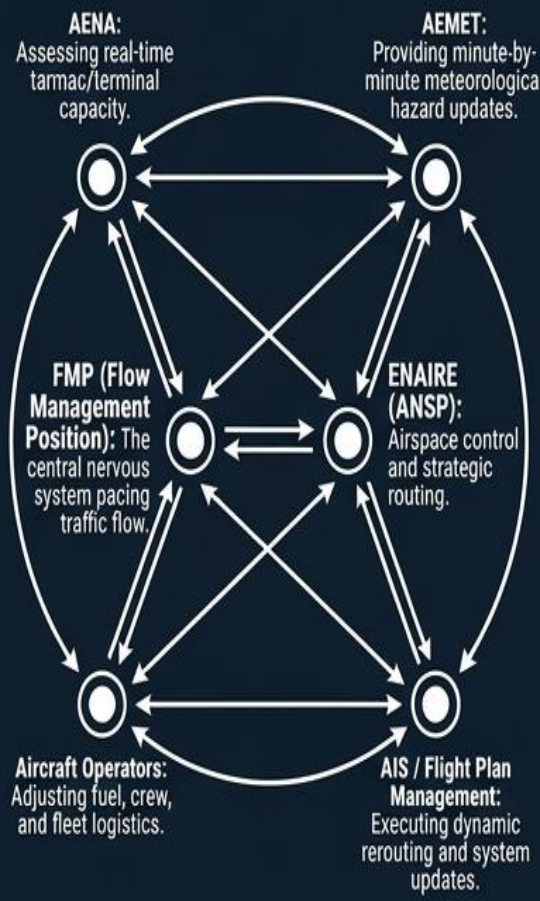
Delaying European departures on the tarmac before they take off toward the Canaries to prevent airborne saturation.

ACTION B: AIRBORNE MANAGEMENT

Safely executing massive airborne diversions to alternate receiving airports within the islands for flights already in the final phases of their journey.

THE ENGINE OF INTEROPERABILITY

Managing massive diversions requires instantaneous, synchronized decision-making across six critical actors.



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Thank you!

> Wish you safe flights, direct routes, and clear skies ahead!

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