



# SITA

## VIVA AEROBUS

Viva Aerobus Reduces Climb-Out Fuel Burn by 72kg with SITA OptiFlight®

# Overview

Viva Aerobus, Mexico's most affordable airline, is not only known for low fares but also operates the second youngest fleet in Latin America. With 78 Airbus A320/A321 aircraft, many in the fuel-efficient NEO configuration, Viva Aerobus is among the fastest-growing airlines globally.



# The Challenge

In an increasingly competitive market, Viva Aerobus needed to maintain its position as Mexico's leader in affordable air travel while facing mounting industry-wide financial pressures. One of their top priorities was cutting fuel costs—a significant expense—without altering their existing or future fleet composition.



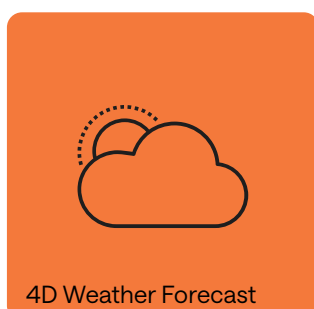
# The Approach


To meet this challenge, Viva Aerobus partnered with SITA to implement a cutting-edge solution aimed at reducing fuel consumption: SITA OptiFlight®. First, the SITA team analyzed Viva Aerobus' historical flight data to build tail-specific performance models which enable to predict the vertical profile and fuel burn of the climb-out phase.

SITA OptiFlight®'s predictive capabilities evaluated tens of thousands of climb-out scenarios alongside 4D weather forecasts, simulating each one to predict fuel consumption and identify optimal strategies for fuel efficiency.

The system then delivered precise, tailored recommendations to pilots through detailed briefing packages, focusing on the critical climb-out phase, where the greatest fuel-saving opportunities were identified.

Finally, the process was supplemented by a collection of flight data after each flight for each aircraft. As new data flowed in, SITA OptiFlight® continually refined these tail-specific models, tracking fuel savings and enhancing accuracy.





**OPTI FLIGHT**  
More savings, less CO<sub>2</sub>

Flight nbr.	3110	Date	2022-07-13	OFP Version	65877
A/C	XAVIE	From	MMGL	To	MMTJ
TOW	66306	Block off	22:20	Block in	01:20

**Recommended best practices for this flight**

**OPTI CLIMB**

- OPTICLIMB SPEEDS FOR PLANNED TOW 66306KG AND TOC FL370
- DO NOT USE IF TOW > 68306KG

➔ In FMS VERT REV page enter: 245kt/FL210

➔ At FL210, select 281kt through the FCU

➔ At FL315, press SPD/MACH push-button and adjust to M.77

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SWITCH BACK TO ECON ABOVE FL370.  
USE FMC ECON SPD DURING LEVEL-OFF AND REVERT TO OPTICLIMB ON FURTHER CLIMB.

# The Results

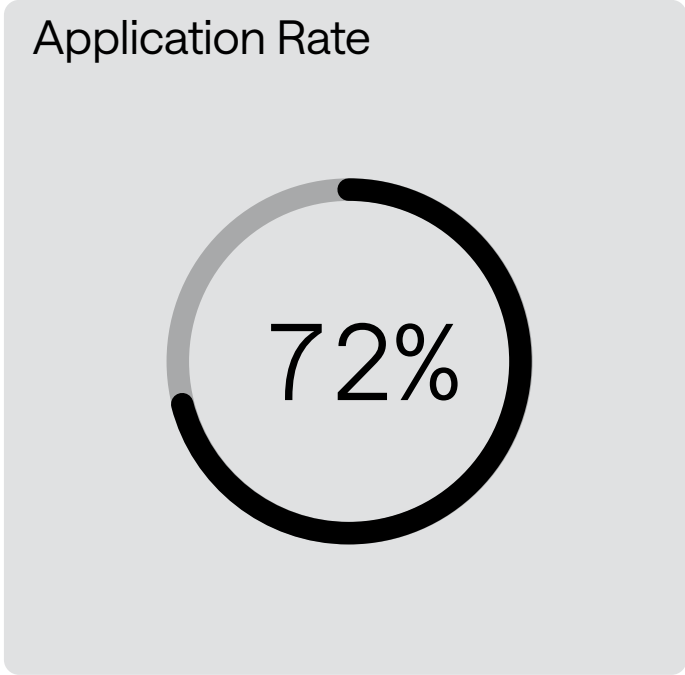
On January 1st, 2021, Viva Aerobus took a significant step forward in its fuel efficiency journey by integrating OptiClimb®, a core component of SITA OptiFlight®, into its standard operating procedures. This move delivered impressive results:

Average Saving per Climb



72 kg

Application Rate



72%

Total CO2 Footprint reduction

15,700t

Total fuel saved



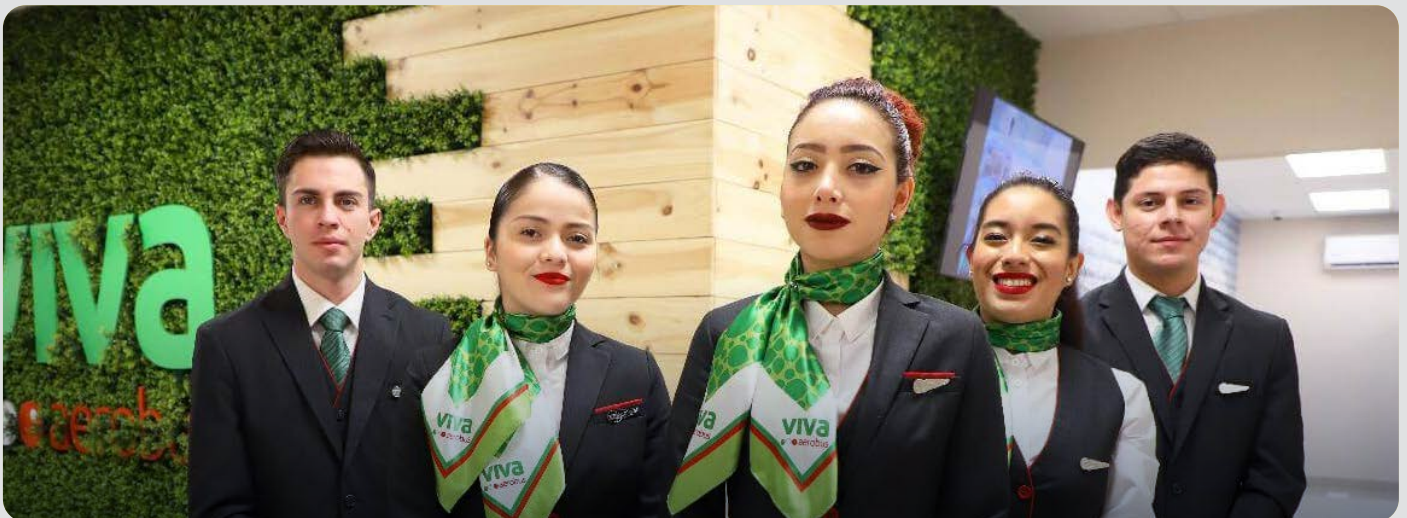
5,000t

By implementing OptiClimb®, Viva Aerobus was able to immediately reduce its fuel consumption while contributing to its environmental goals through significant CO2 reductions.

# Conclusion

Through its partnership with SITA, Viva Aerobus has not only reinforced its leadership in affordable air travel but also demonstrated a commitment to sustainability and operational efficiency. The integration of OptiClimb® into daily operations helped the airline save 72 kg of fuel per climb-out phase on average, while cutting 15,700 tons of CO2 emissions. For airlines seeking to reduce fuel costs and decarbonize operations, Viva Aerobus' success offers a compelling example of how flight optimization can deliver measurable savings and environmental benefits today without fleet or fuel changes.

For North American airlines looking to reduce costs while maintaining operational efficiency, Viva Aerobus' story is a testament to how collaborative data-driven strategies can lead to substantial, sustainable improvements.



"Viva Aerobus is fully committed to a Green Future, through innovation and the latest technology available. We were pleasantly surprised to experience how SITA was able to deploy such advanced predictive technology in such a simple, straightforward and user-friendly manner, allowing pilots to save fuel and reduce emissions at the beginning of every flight."

**Humberto Flores**  
Flight Operations Executive Director  
Viva Aerobus



# Contact

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