

SITA OptiClimb®

Take the smarter trajectory to lower costs and emissions

SITA OptiClimb® is the industry's only machine-learning solution providing customized climb schedule recommendations for every flight. In the face of challenging economic and environmental targets, leading airlines around the world are relying on SITA OptiClimb® to optimize fuel consumption in the climb phase.

5%



Off your climb-out
fuel costs and
carbon emissions

Easy and safe travel every step of the way.

SITA

FOR AIRCRAFT

The future is customized

The ECON climb-out profile is not the most fuel efficient. SITA OptiClimb® is the only solution offering fully customized, tail- and flight-specific recommendations. These recommendations identify the best trade-off between horizontal and vertical speeds to save fuel during climb-out.

Using quick access recorder (QAR) data from previous flights, the solution builds a predictive performance model for each aircraft. 4D weather forecasts and operational flight plans (OFPs) are fed into the model, which computes and selects optimum climb speeds and acceleration Flight Level to maximize fuel burn reduction without compromising flight duration.

— Solution

Annual savings for an airline with a fleet of 20 jet aircraft*



1,600+ tons of fuel



5,000+ tons of CO2



US\$1M net

*BASED ON APPLYING 75% OF SITA OPTICLIMB RECOMMENDATIONS.

Nothing needs to change, except your fuel costs

Implement SITA OptiClimb[®], with no impact on your operations and systems:



Compatible with all flight planning systems



Integrates with most Electronic Flight Bags (EFBs)



No need to purchase new hardware - pay as a service



Intuitive and easy-to-use for pilots

Making life easier, right across the airline



The sustainability office

SITA OptiClimb[®] supports airlines' goals of achieving **net-zero carbon emissions by 2050**. Over 5,000 tons of CO2 can be saved annually per 20 aircraft.



The finance team

Fuel accounts for up to **40%** of an airline's direct operating costs. SITA OptiClimb[®] lowers climb-out fuel costs by **5%** on average and the system offers an ROI of at least **300%**.



The IT team

The system is compatible with all **OFF sources**. It integrates with most Electronic Flight Folders (EFFs), weather awareness and navigation apps.



Pilots and flight operations

Speeds and acceleration Flight level recommendations are received via existing EFBs or paper briefing documents, **with no additional workload for pilots**.

Trusted by leading airlines since 2017

VIVA 

AIRFRANCE 

SKY

 transavia

airasia

 TUI

SINGAPORE AIRLINES 

AeroLogic

Annual savings per tail

AirAsia

82 tons fuel
259 tons carbon

Transavia France

70 tons fuel
223 tons carbon

AeroLogic

133 tons fuel
418 tons carbon

Viva Aerobus

131 tons fuel
413 tons carbon

— Testimonial

Within AeroLogic, sustainable operations are a priority for all. We are excited to innovate with **SITA OptiClimb®**, a unique solution that empowers our pilots to further contribute to more efficient and greener operations.

**Joe Moser, Managing Director
Boeing 777 Captain, AeroLogic**



Designed by pilots, loved by CFOs and sustainability officers

SITA OptiClimb® was designed to reduce aircraft climb-out fuel consumption by a team of aviation experts, including professionals with experience as airline pilots, aerospace engineers, software engineers and data scientists.



6 weeks

Technical set-up



2 weeks

Functional test
(with technical/
management pilots)



8 weeks

Launch (with all pilots)

Up and running within 16 weeks

Typical implementation timeframes

— Solution

Never stop optimizing

After the flight, actual fuel consumed is compared with predictions to report on savings and update the machine-learning model.





The most advanced solution in the market

SITA OptiClimb® is the only solution on the market providing customized climb speeds, climb Mach and acceleration Flight Level to fully maximize your fuel savings.

— Solution

Be part of something big

Around 5.6m tons of carbon dioxide emissions will be cut each year, if every airline worldwide uses SITA OptiClimb®.



5.6m tons

Carbon dioxide emissions will be cut each year.



CONTACT

— Get in touch

Take the next step to smarter climb-outs

To discuss how much your airline could save,
or to see the solution in action, get in touch.



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