

# SITA OptiDirect

## Your sustainable route to more fuel-efficient flights

Save fuel, reduce emissions and cut flight times right across your fleet. **SITA OptiDirect** is the only shortcut recommendation solution based on tail- and flight-specific machine learning models and historical track data.

With fuel costs high, and sustainability concerns increasing, leading airlines are adopting **SITA OptiDirect** to support their economic and environmental goals.



Easy and safe travel every step of the way.

**SITA**

FOR AIRCRAFT

## Take a smarter track

Pilots can request shortcuts that deviate from standard routes to save time and fuel, but currently, they lack appropriate tools in the cockpit to help in their decision-making.

SITA OptiDirect builds an airline-specific database of waypoint-to-waypoint tracks flown, using machine learning which draws on historical flight data and aviation waypoint databases. In tandem, it builds tail-specific predictive performance models and feeds them with 4D weather forecasts, operational flight plan (OFP) inputs and the airline-specific waypoint route database.

The result? Recommendations of the optimum shortcuts for fuel burn and time-savings, customized to each flight and aircraft.

### — Solution

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



160+ tons of fuel



500+ tons of CO2



US\$100k net\*

\*BASED ON A FUEL PRICE OF US\$0.8 PER KG.



# Nothing needs to change, except your fuel costs

With SITA OptiDirect, nothing needs to change in an airline's core operations:



Compatible with all flight planning systems



Integrates with most Electronic Flight Bags (EFBs)



Intuitive and easy-to-use for pilots



No need to purchase new hardware - pay as a service

## Making life easier, right across the airline



### The finance team

Fuel accounts for up to **40%** of an airline's direct operating costs. SITA OptiDirect lowers annual cruise phase fuel consumption by 8 tons per tail, on average. The typical ROI is over **300%**.



### The sustainability office

SITA OptiDirect supports airlines' goals of achieving **net-zero carbon emissions by 2050**. Over 500 tons of CO2 can be saved annually per 20 aircraft.



### 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

Pilots receive information on potential time and fuel savings per shortcut, as well as how many times it's been flown before: giving them more confidence to request the route from air traffic control (ATC).

# Trusted by leading airlines since 2017

SITA OptiDirect helps airlines like Air France, Transavia France, Condor and AeroLogic to cut costs and reduce emissions.

**AIRFRANCE**  **transavia**  **AeroLogic**  **Condor** 

## Annual average savings

### AeroLogic

28 hours of flying time  
226 tons of fuel  
712 tons of carbon

### Transavia France

20 hours of flying time  
46 tons of fuel  
145 tons of carbon

### — Testimonial

OptiDirect, which our pilots have been using since January 2020, aligns perfectly with our continued efforts towards implementing more eco-flying solutions and contributes to our sustainability commitments.

**Jean Fernandez,**  
VP Flight Operations, Air France

# Designed by pilots, loved by CFOs and sustainability officers

SITA OptiDirect 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

### Share your successes

Data is analyzed after each flight to calculate fuel, carbon and time saved. Meaning it's easy to report against financial and environmental goals for your senior team, shareholders, partners or customers.





# How does SITA OptiDirect compare to other options?

## SITA OptiDirect versus the status quo

Right now, pilots may not feel confident asking ATC to approve a more direct route because they lack evidence of the potential savings and clearance history. This solution empowers them to request shortcuts that will save fuel, emissions and time.

### — Solution

## Be part of something big

The airline industry has pledged to Fly Net Zero: the commitment to achieve net zero carbon by 2050. If every airline flew more fuel-efficient routes with SITA OptiDirect, this goal could be more easily achieved.

## SITA OptiDirect versus alternative solutions

SITA OptiDirect is the only solution to use predictive aircraft performance models, 4D weather forecasts and a database containing your airline's previous waypoint-to-waypoint routes, to generate fully customized shortcuts in the cruise phase.



# CONTACT



— Get in touch

## Take the next step to a smarter cruise phase

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



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