



OPTI FLIGHT

In-flight guidance

Leveraging Predictive Analytics to Reduce Aircraft Emissions

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SAFETY LINE

Big Data applied to Aviation

Predictive Digital
Solutions

For the safety
and efficiency of
aviation operations

SDGs
**GLOBAL
STARTUP
COMPETITION**

WINNER

Powered by:  UNWTO

13 CLIMATE
ACTION





V1
Spreadsheets



V2
Fuel Dashboard



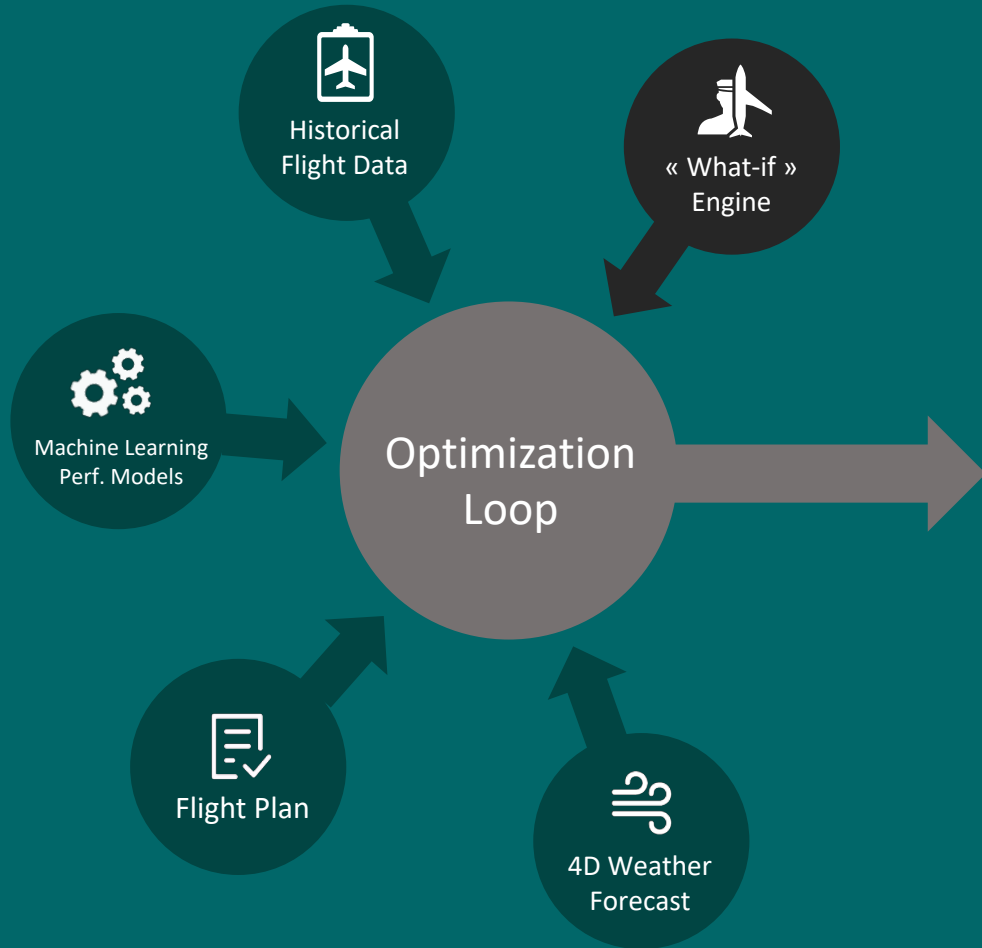
V3
Machine Learning



OPTI FLIGHT
In-flight guidance

Taking Fuel Efficiency to the Next Level

Data Science in the Cockpit



OPTIFLIGHT BRIEFING

OPTI FLIGHT
In-flight guidance

Flight Number : ABC123 From : ORY To : TUN
OFP Version 1 Date : 03/07/2019
A/C : F-OPTI TOW : 69285 kg

Item	Value
Pass info	Fuel efficiency: 2.12 / 1000kg
Additional Fuel	In case of 100% fuel change 200 + 2000 kg = 2200 kg of fuel 200 + 2000 kg = 2200 kg of fuel
Warning	Oil weight above 10 kg
EDTD	Average fuel flow: 1000 kg/h
OptiClimb	Optimizations to be applied + 2000 kg - 10 min + 2000 kg - 10 min + 2000 kg - 10 min
OptiDirect	Request direct routing clearance + 2000 kg - 10 min + 2000 kg - 10 min + 2000 kg - 10 min
OptiSpeed	Adjust Mach speed at 10000 ft + 2000 kg - 10 min + 2000 kg - 10 min + 2000 kg - 10 min
OptiLevel	Request level clearance to ATC + 2000 kg - 10 min + 2000 kg - 10 min + 2000 kg - 10 min
OptiDescent	Request descent clearance to ATC + 2000 kg - 10 min + 2000 kg - 10 min + 2000 kg - 10 min
EDTD	Average fuel flow: 1000 kg/h
GPU	On arrival request GPU on 100% fuel change

The tablet displays a flight optimization interface with a map of Europe and a flight path. A pop-up window titled "OptiDirect" shows a request for direct routing clearance to ATC for the route BTA - GIANO, noting a 35kg weight and 1-minute time saving. The interface includes various controls and a timeline at the bottom.

Climb-out phase

Default Climb

250 kts

up to

10,000 ft

NOT OPTIMAL

Regulation

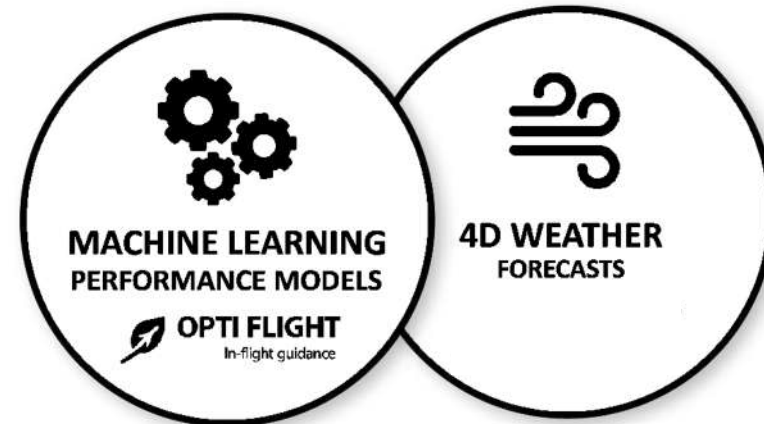
250 kts max

up to

min 10,000 ft



Customized Speeds





 **OPTI FLIGHT**
In-flight guidance

 **eWAS**
Solution

OptiFlight Customers



OPTI FLIGHT

In-flight guidance



21 Airlines

857 a/c



3.8%

Global Market Share
Captured Already!

857

Aircraft

\$38,2 M

Yearly Savings

190 k tonnes

**Reduction of CO2
Footprint**



CURRENT CUSTOMERS



22,680

Global Fleet

\$1.1 B

**Global
Yearly Savings**

5,6 M tonnes

**Global Reduction
of CO2 Footprint**



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