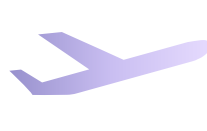


# Enhancing Operational Performance with Multi-orbit Inflight Connectivity

## A better future through inflight connectivity

Pre-flight



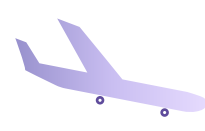
- Gate-to-gate operational connectivity for pre-flight planning on electronic flight bags (EFBs), logbooks, and digital manuals
- Maintenance personnel can connect their tools seamlessly

In-flight



- Enable real-time airplane health monitoring and predictive maintenance by wirelessly offloading data
- Real-time weather provides flight route optimization to save fuel, lower emissions, and improve situational awareness

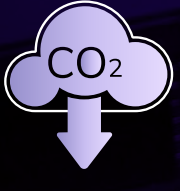
Post-flight



- Offload aircraft big data for Flight Operations Quality Analysis without manual intervention

## Create a competitive edge and minimize delays with real-time data for your crews

Flight operations:  
Enhance your EFB applications



Reduce CO<sub>2</sub> emissions with optimized routing



Reduce injuries due to turbulence with smoother flights



Mitigate lightning risks with live weather updates



Lower fuel consumption with real-time wind data

## Weather related events are costly for airlines



### Turbulence

Estimating savings of **900-1,300 minutes** annually per aircraft and **8,000-12,000 gallons of fuel**

2017 global cost of turbulence related injuries was **U.S. \$367 million**, and could reach **U.S. \$1 billion** by 2035

### Lightning Strikes

Average cost per inspection for a narrow body aircraft after a lightning strike is **U.S. \$19,000**

Around **2/3 of lightning related damage** is outside of allowable limits which drives extensive repairs

## Ground Operations: Reduce aircraft turnaround times with real-time data

- Increase awareness of inflight concerns
- Proactively resolve maintenance issues
- Accurately refill catering and other supplies



## Gain cost-effective access to operational data in near real-time

SES's secure IP network enables airlines to gain powerful insights and make better decisions

- Aircraft performance testing
- Pilot performance testing
- Pilot score carding
- Predictive maintenance

Routing non-safety data over SES's network



A/C Data



SES



Cost per MB

Routing data over ACARS network



A/C Data



ACARS



Cost per MB

## Bring your operations online to save time and money



Reduce cost



Generate revenue



### In-cabin

Enable flight crews with tools to enhance the passenger journey



### Flight operations

Empower pilots with access to real-time data



### Aircraft operations

Minimize delays due to unexpected maintenance



Learn more about our purpose-built satellite and connectivity solutions at [ses.com](https://ses.com)

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