



# **IATA Turbulence Program**

## **Introduction and update**

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# Costs of Turbulence to the Industry

## Aircraft Operators:

- Injury compensation
- Damaged cabin interiors
- Diversions
- Aircraft inspections / out-of-service time
- Extra fuel burn
- Increased insurance premiums after serious accidents
- Legal fees
- Cost of brand damage

## National Air Space:

- 2nd leading cause of impact to NAS capacity (FAA)

# Dealing with Clear Air Turbulence: brand damage

#turbulence





# Present Day Challenges

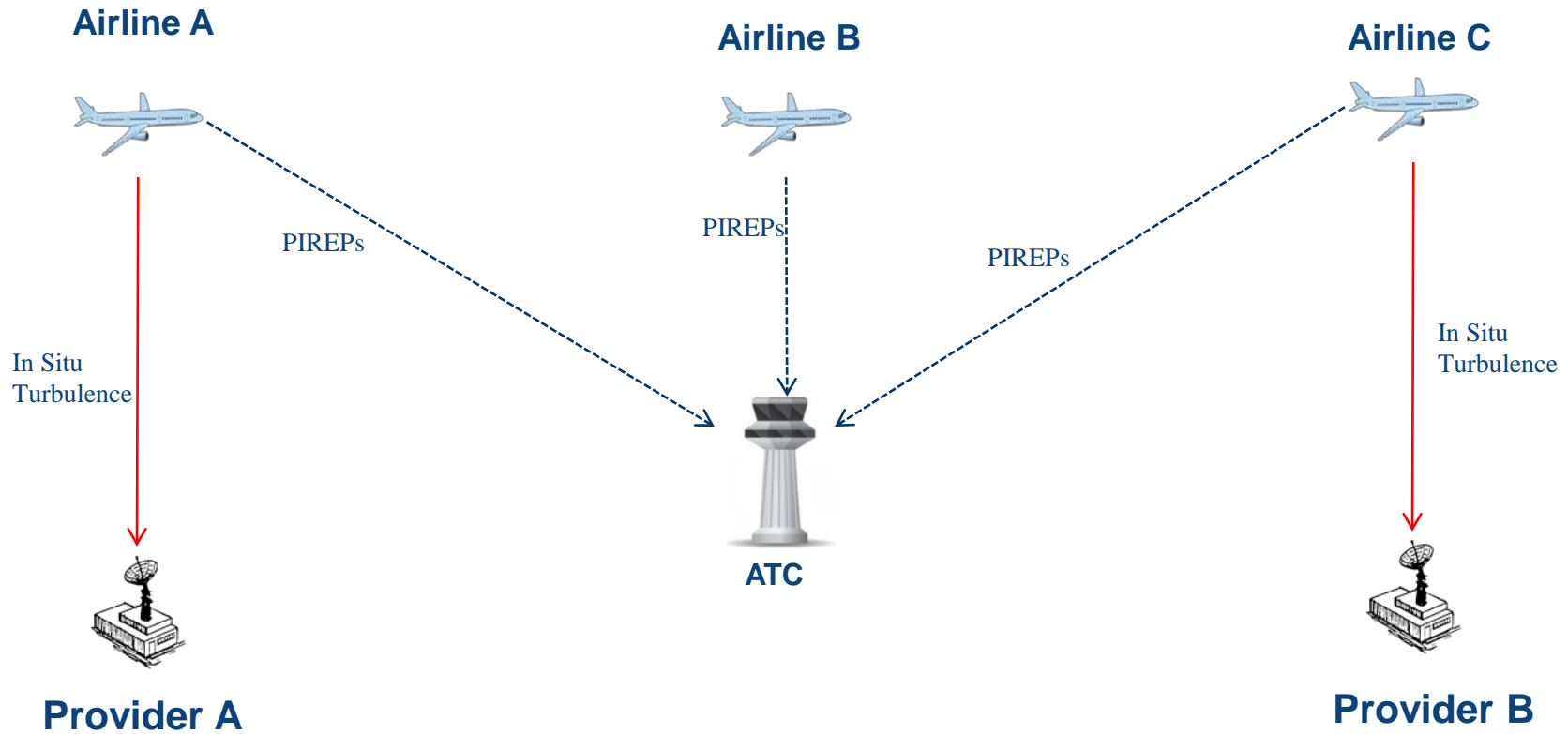
Turbulence costs are on the rise

Pilot Reports (PIREP) remain the standard way to report turbulence

Current industry efforts to collect automated turbulence reports are fragmented and the data is kept proprietary



# Example



Aircraft flying through moderate-to-severe turbulence

What is the problem with the current situation?

Limited critical mass  
Limited forecast improvement  
Limited understanding of the turbulence phenomenon  
Limited room for innovation

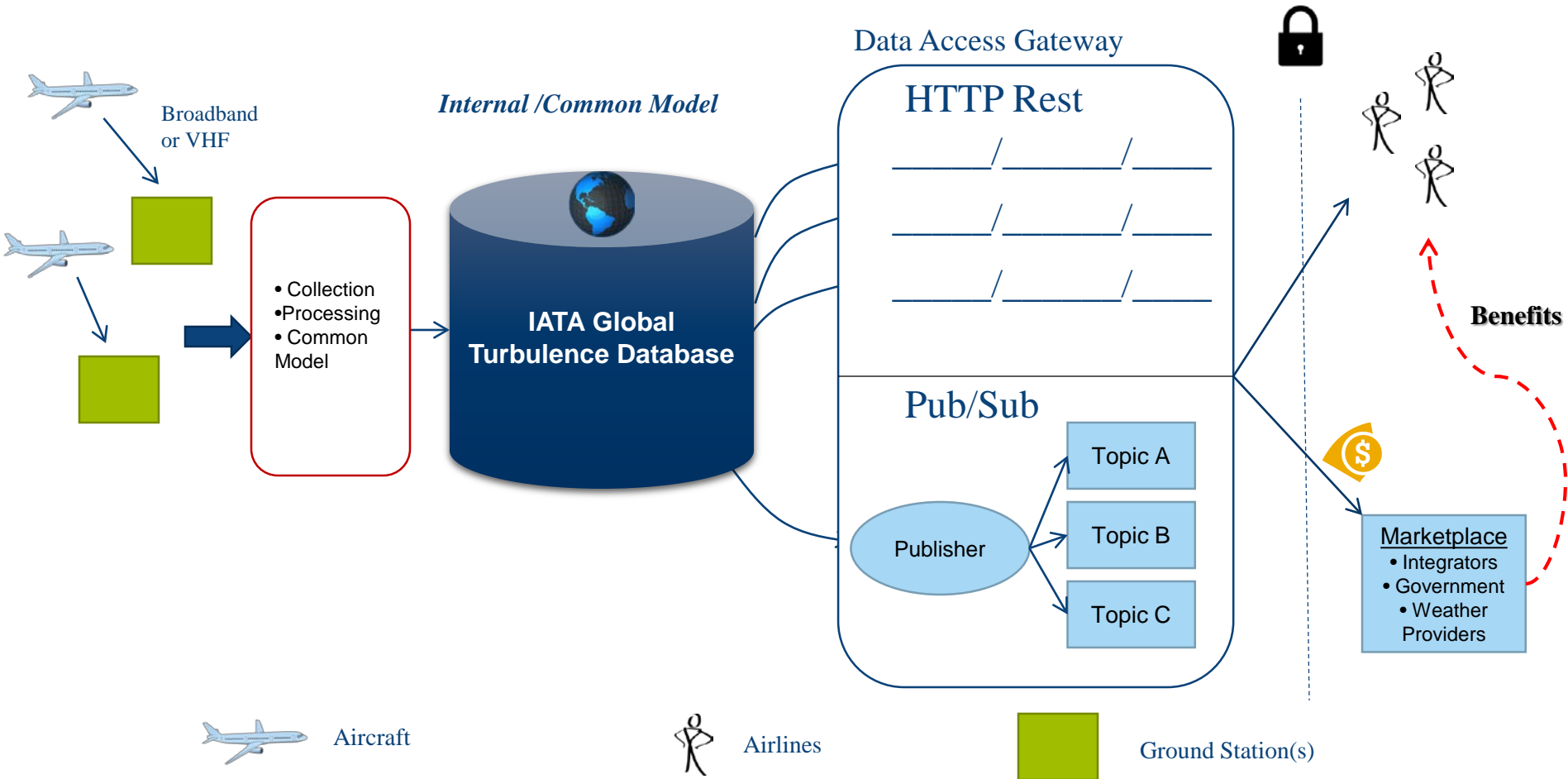
**Benefits associated with data-driven turbulence management cannot be fully realized**



# Airline request to IATA

Develop a **global, real-time, objective** aircraft-sensed **turbulence data exchange** to improve safety and operational efficiencies

# Solution







# Potential benefits to operators

Improved safety and cost-savings (fewer crew and passenger injuries)

Better customer service

Flight operational efficiencies (flight planning based on accurate data and improved forecasts)

# Progress to date



- Global Turbulence Study to validate the need
- Regional workshops in DOH, BJS, SIN, MIA, LON to validate the concept and collect requirements
- Conceptualized the technical and governance framework of the Platform
- Engaged in situ turbulence technical SMEs to collect best practices to share with the industry

# Next steps

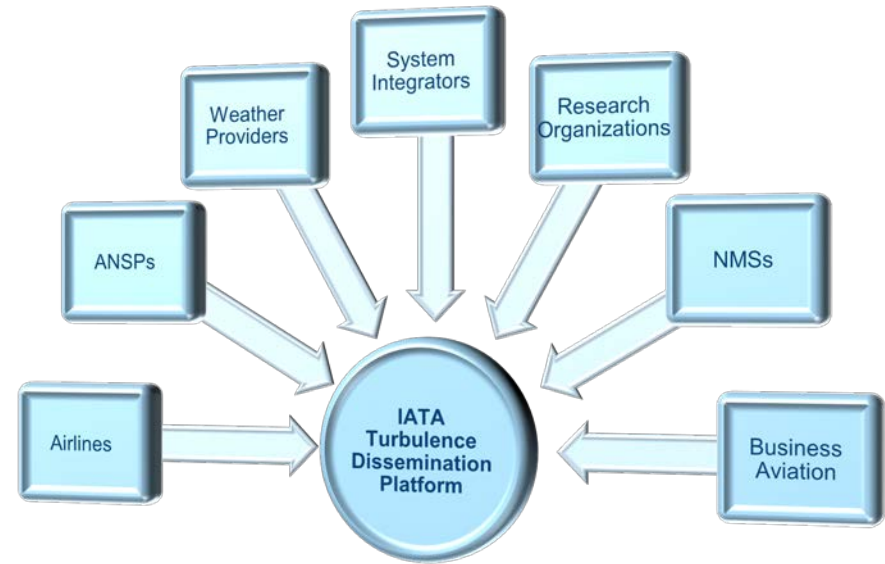
Pilot Project with live data exchange to be launched in early 2018

Operational platform to be available as of 2019

# Potential data users

Equitable and fair access  
to the data

Protecting airlines'  
interests as data owners



# Thank you!

For more information, please contact  
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