

skywise. The beating heart of aviation

Collaborating with and around data

Frederic SUTTER,
Airbus Digital Transformation Leader

Kuwait City, Oct 2nd 2019

Artificial Intelligence: the ubiquitous disrupter

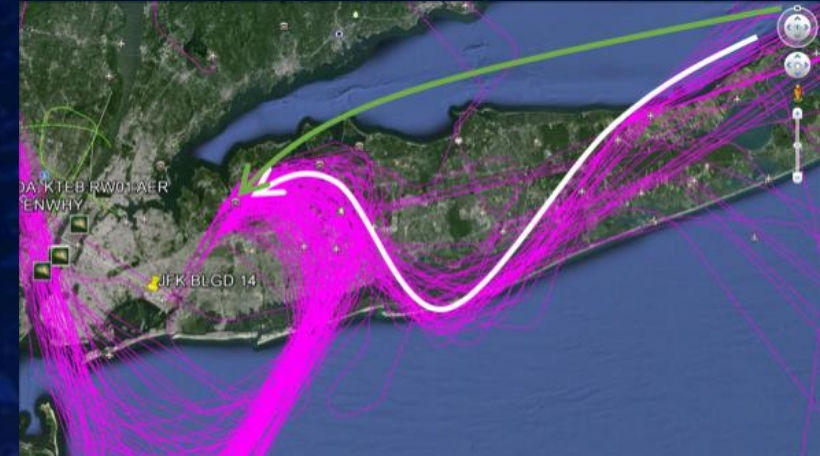


AI redefining all areas of our business: the way we work with each other, the way we build aircraft, understand, improve and certify them.

Examples:
Voice to text to reduce pilot workload

Traffic based trajectory optimization

...



The Fundamental Problem

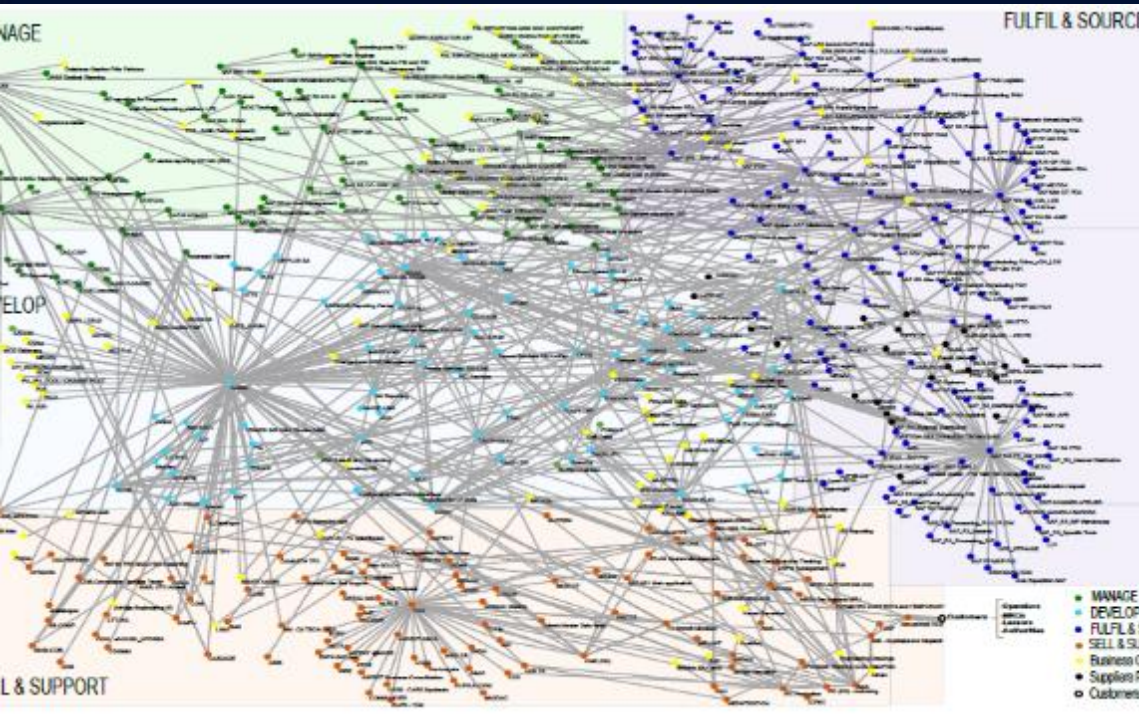


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AIRBUS

Data integration is key

From static, heterogeneous systems...

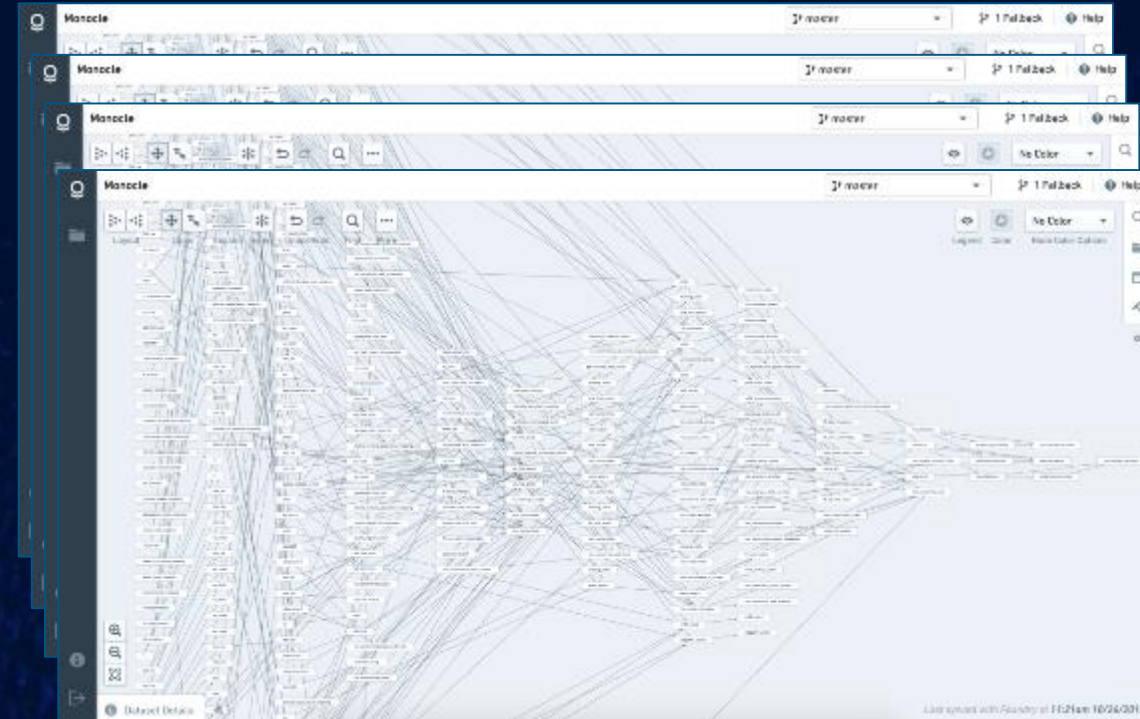


Extraction



Integration

...To extracted, curated and actionable data



Skywise, an Airbus and Palantir partnership, was born out of the A350 production ramp up challenge in 2015. The result:

33% Acceleration in A350 Production



One-time data extracts

High cost of data integration

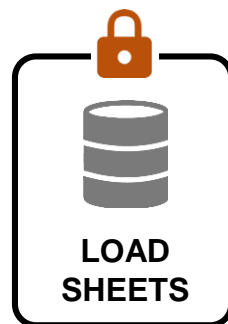
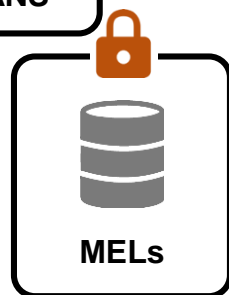
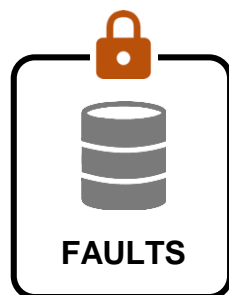
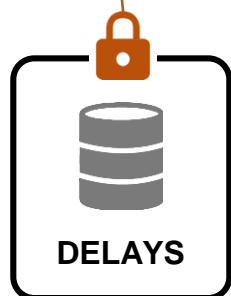
Superficial operational insights

Difficult to have an enterprise view

Time consuming manual work

Inability to monitor and improve data quality

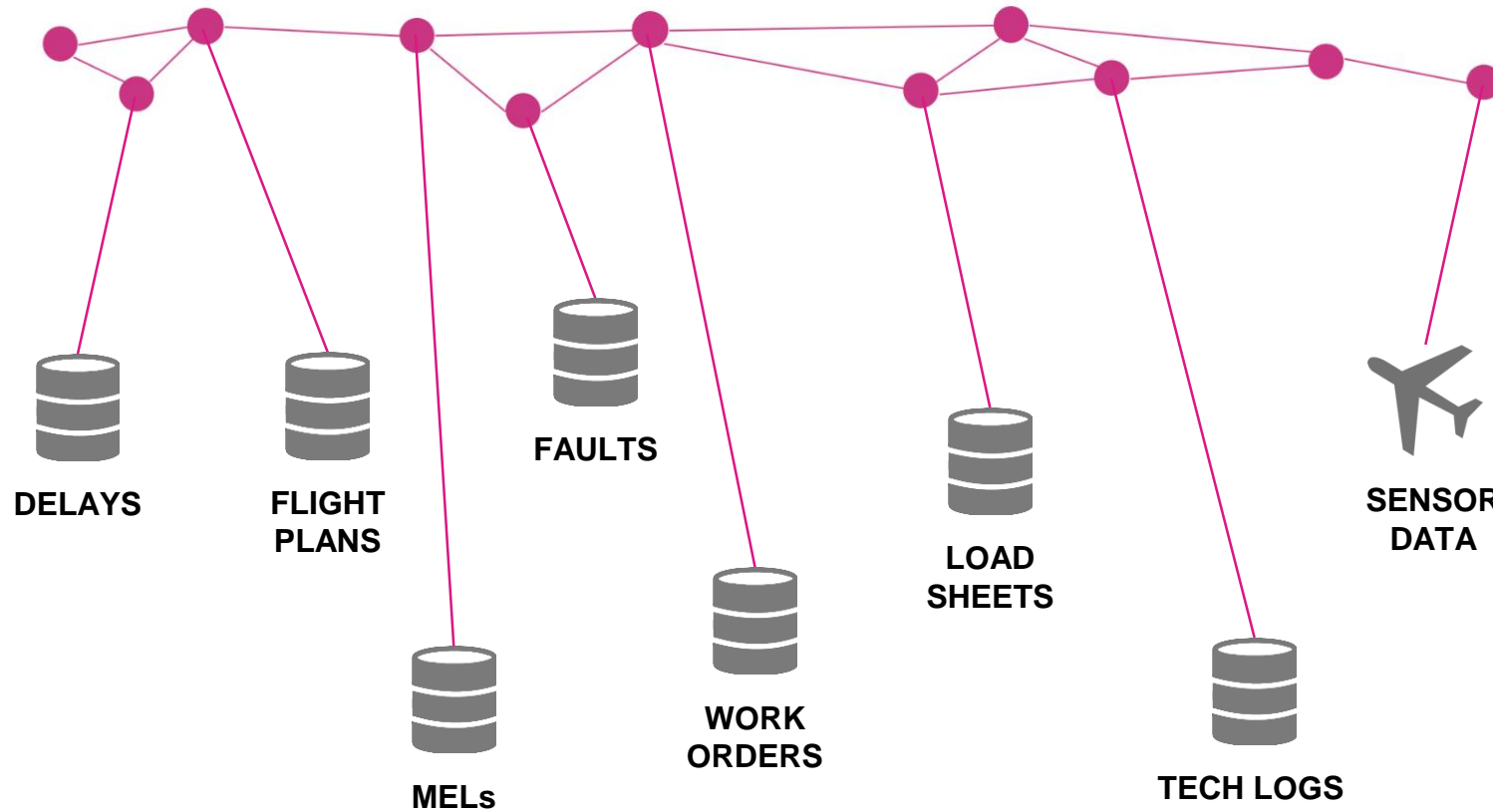
Data siloes = unexploited value



Data Silos

Airlines create massive amounts of data that have historically been siloed across departments and at service providers, preventing insights with meaningful impact on operational execution, cost efficiency and safety.

Unified **skywise** Data Model



World Class Data Integration

By linking data silos together in the Skywise platform, airlines gain cross-functional visibility into their operations to deliver value more efficiently and unlock new workflows

Digital continuity provides a real step-change in performance

INTEGRATING DATASETS TO PROVIDE DATA CONTINUITY AND VISIBILITY ACROSS FUNCTIONAL SILOS

2023
NATIVE
DIGITAL
CONTINUITY



DIGITAL
TWIN
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NOW
RE-BUILT
CONTINUITY



DIGITAL
SHADOW
€



SUPPLIERS

DESIGN

MANUFACTURE

SUPPORT

CUSTOMERS



Maintenance



Engineering &
Reliability



Automated
Reporting



Skywise Reliability
Services



Inventory
Management



Fuel Consumption
Visibility



Turnaround Time
Analysis



Warranty Claim
Management



Cabin Defect
Management



Flight Safety



Skywise is helping airlines improve **decision-making**,
increase **operational efficiency** and decrease **operating costs**.

90+

Airlines

8000+

Aircraft

35M+

Maintenance Actions

10+

Suppliers

10000+

Unique Monthly Users

120+

Systems Integrated

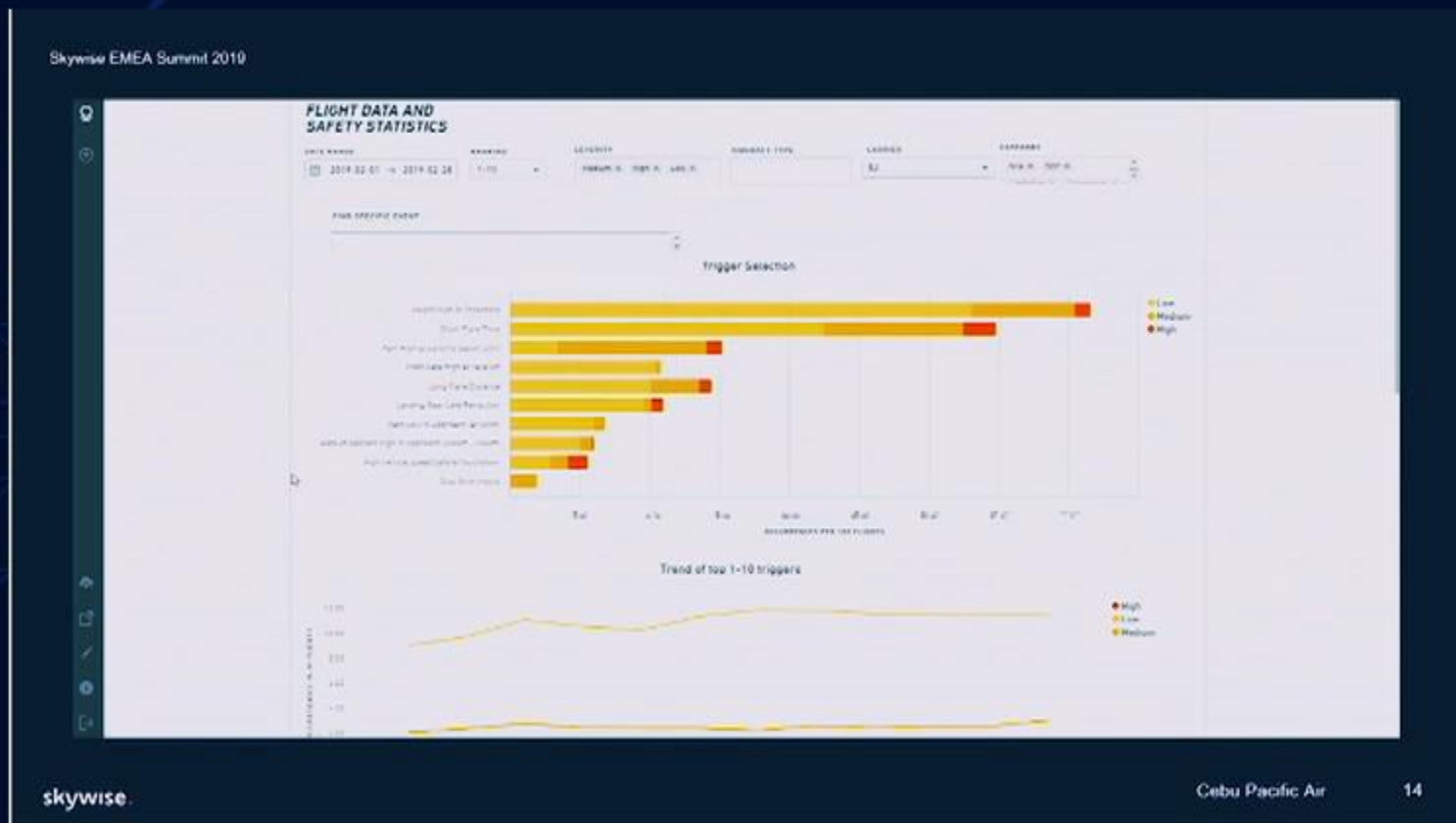




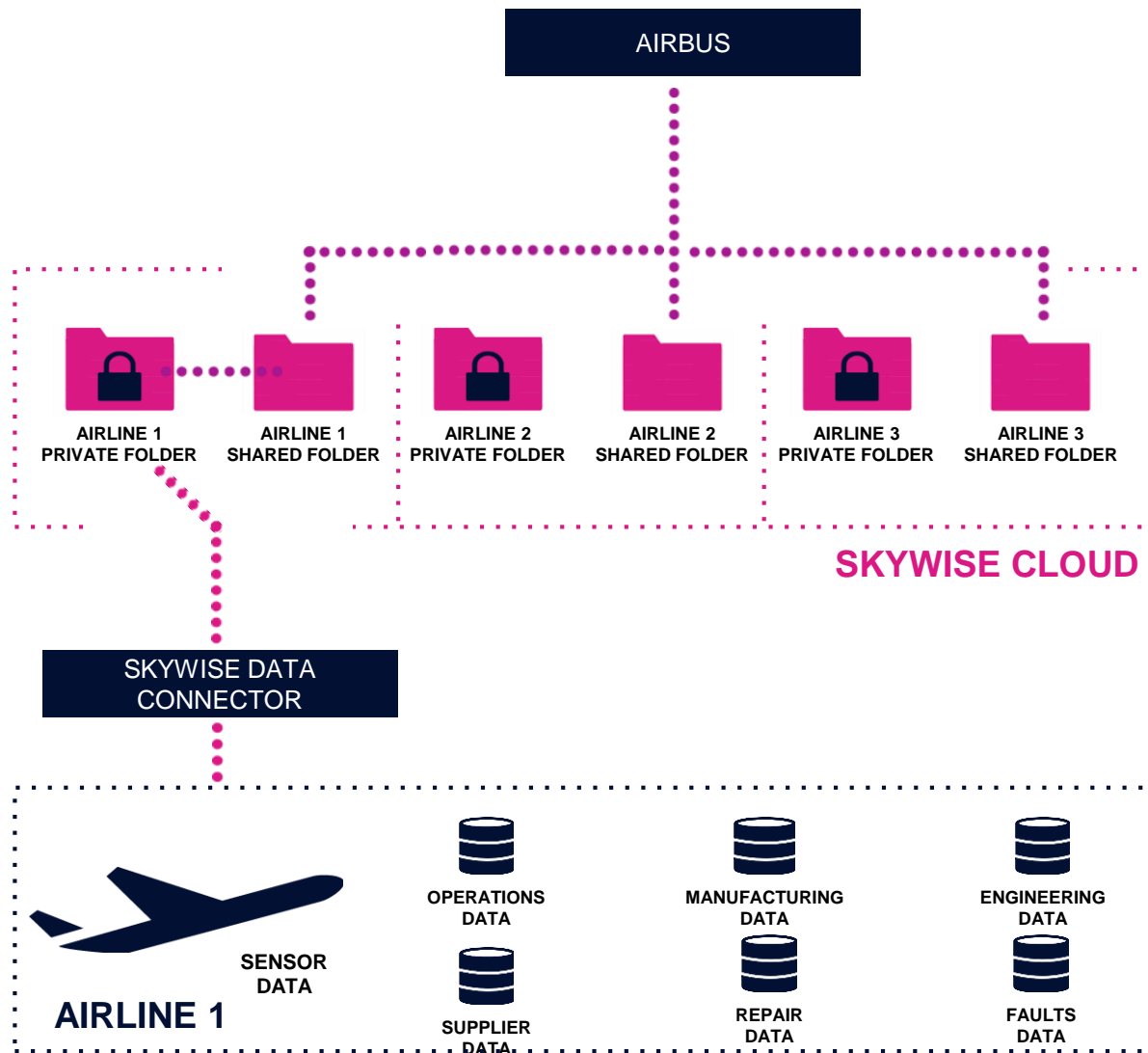
Skywise helping power flight operations and safety at Cebu Pacific

Francesc Torres

Director Operations Support, Cebu Pacific



- Airlines control their own data
- Shared value – participating in Skywise and sharing data is a choice
- Strict segmentation – each Airline has their own Skywise space
- Skywise supports the full breath of airline operations – “private area” can host sensitive commercial or non-Airbus fleet data



- Airbus can only access data the airline agrees to share (maintenance, engineering and operations data)
- Airlines can upload additional data into a private folder that Airbus cannot access (e.g., Boeing data)
- Airlines maintain ownership and administrative rights to their data at all times, and can turn off access to the platform at any point
- Airlines cannot see each others' data

Skywise Digital Services: Fleet Performance



Fleet Performance suite

Break all the silos between applications and data to excel the value bring by each of them

FOMAX

Connect your aircraft with the latest technologies and open the door of the big data

Consulting

Adapt your processes to the most efficient and modern ways of working allowed by the new technologies to improve your airline operations and revenues

Breaking the silos between Health Monitoring, Predictive Maintenance and Reliability analysis:

Fleet Performance is a 360° view on data and actions to adapt your dispatch and maintenance strategies at their best.

AIRPORTS

Services for optimized air / ground traffic mgmt.

AIRWORTHINESS

Accelerated certification process

AIRLINES

Services for improved flight operations, maintenance, asset utilization, disruption mgmt.

MROs

Optimized issue identification with in-flight data

LESSORS

Asset utilization optimization

AIRSPACE AUTHORITIES

Visibility on flight status
Capacity trends modelling and simulation

SUPPLIERS

Predictive maintenance
Improved component design

IM INTEGRATORS / APP DEVELOPERS

Market for value-added services

AIRBUS INTERNAL

Higher operations efficiency and productivity
Improved Aircraft design



<https://skywise.airbus.com/en/about-skywise.html>

Thank you