Case Study

Smarter air traffic management with trusted data and ESG insights

Enabling real time decision-making, scalable analytics and governed self service for a leading European aviation organization

At a glance

Atos has provided data governance, cloud migration and business insights (BI) standardization services to deliver trusted, real-time insights, enabling better air traffic management and stronger ESG decision support.

Outcomes

- Improved decision-making with trusted, well-governed enterprise data
- Enhanced real-time operational awareness and monitoring capabilities
- Reduced flight delays through better visibility and timely insights
- Stronger ESG decision support, including visibility into non-CO_2 emissions

Overview

A leading European aviation organization is responsible for managing highly complex, data-driven air traffic and network operations. Its mission requires accurate, timely insights to ensure safe, efficient and sustainable air traffic management across Europe.

Why Atos

Atos combines deep expertise across data modernization, governance and analytics to deliver end to end transformation at scale. Leveraging accelerators, cloud partnerships and proven frameworks, Atos enables organizations to build trusted data foundations, adoption of self-service analytics, and faster business outcomes to support innovation, operational excellence and sustainability ambitions.

Challenge

The client was looking to modernize its data ecosystem in endeavors to enhance real-time decision-making, operational efficiency and sustainability goals.

Legacy data centers that are near capacity and a rigid data warehouse limited its scalability and increased maintenance costs. At the same time, decentralized data and reporting and inconsistent data definitions had impacted trust in insights. Data quality issues, limited lineage and heavy manual data preparation restricted agility.

The organization aimed to establish a strong, governed data foundation, enable enterprise-wide access to trusted data, improve operational visibility, and incorporate ESG considerations like non-CO_2 emissions into decision-making.

Business benefits

- Better informed decision-making to support Air Traffic Management (ATM) outcomes
- Improved visibility with consistent, reliable reporting across the organization
- Faster operational response through enhanced real-time data monitoring
- Increased productivity by reducing manual data preparation and reporting effort
- More focus on core operations through streamlined governance and automation
- Contribution to improved network performance, including reduced flight delays
- Strengthened ESG decision-making capabilities, including non-CO_2 emissions visibility

Solution

Atos delivered a comprehensive data modernization and analytics transformation program to address these challenges. Key highlights of the solution are as follows:

- The team established **enterprise-wide data management and governance** using Collibra, ensuring **trusted, well-defined datasets** while enabling **data democratization**.
- Data engineers **supported migration** from legacy systems to Azure, **improving scalability and performance**.
- Our experts **standardized reporting** by implementing Power BI as the single enterprise BI platform, eliminating fragmented dashboards and inconsistencies.
- A governed self-service approach empowered business users to **access insights** independently while **maintaining control and data quality**.

Atos aligned stakeholders, strengthened standards, and delivered an integrated data platform enabling real-time analytics and improved operational insights.

Find out more about us

atos.net

Let's start discussion together

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