The leading analytics platform that enables dozens of airlines to improve operational efficiency, on-time performance, and aircraft utilization.

Product Overview
WHAT HONEYWELL FORGE DOES FOR YOUR AIRLINE

Meet aviation’s most sophisticated analytics platform that delivers solutions, drives higher profits, and increases aircraft availability.

Honeywell Forge is our new data analytics platform combines critical data from your airline systems with flight data from the aircraft. It transforms raw data into actionable insights delivered automatically to different roles within your organization: from fuel efficiency to pilots to maintenance professionals. This real-time information enables your team to act quickly to enhance the well-being of passengers and maximize profits for your airline.

Honeywell Forge also enables you to store, access, manage, and serve events and policies that root out waste and drive more profitable behaviors. The platform also enables you to set thresholds, alerting conditions, and upload your own and/or third-party analytics. The unique feature set will instantly unlock value by enabling your airline to make improvements in fuel and flight efficiency, maintenance, safety, block time analysis, and ground turn optimization.

Currently, Honeywell Forge is being used to process data from more than 10,000 aircraft. Major airline groups like Lufthansa, IAG, Etihad, KLM, Japan Airlines have publicly acknowledged using the platform to improve operational efficiency. Please reach out for available case studies and video presentations from customer airlines.

PROVIDES ALL YOUR DATA IN ONE PLACE
- Built as an expandable platform
- APIs to interact with your existing systems

WE DO THE HEAVY LIFTING FOR YOU
- We integrate and clean your data
- Get build-in analyses so you can generate actionable insights right out of the box
- Take advantage of dashboards to meet the needs of multiple stakeholders and departments at your organization

OUR DOMAIN KNOWLEDGE IS INFUSED IN THE TOOL
- Utilize guided queries from Honeywell
- Use algorithms that detect efficiency opportunities
- Leverage artificial intelligence and over 100 years’ experience as an aviation component and system provider to recognize patterns and generate predictive alerts

BECOMES A FORCE MULTIPLIER FOR YOUR TEAM
- A tool for data innovation – multiple data sources in one place; intuitive querying tools; access to analysts with domain expertise
- The tool can find savings opportunities for you and provide ongoing monitoring
- Enables analysts to focus on higher value-add activities

ENABLES YOU TO BREAK DOWN DATA SILOS
- Enable permission levels and data access categories you choose
- Share cross-domain analytics
- Examine tradeoffs for maximum savings and efficiency
- Stay secure and firewall sensitive data

PUSH THE RIGHT DATA OUT TO PEOPLE IN THE FIELD
- Give your team the information they need to do their jobs effectively at the moment they need it
- Get pilot briefing and debriefing
- APIs to interact with your existing systems
- Receive technician alerts and instructions on repairs needed
UP TO $200,000 IN SAVINGS PER AIRCRAFT, PER YEAR

Expect to increase aircraft availability by 5%, reduce fuel spend by 2%, reduce unscheduled removals by 30% and increase on-time performance by 3% using this new technology.

EXPANDABLE PLATFORM THAT INTEGRATES WITH YOUR EXISTING SYSTEM

Honeywell Forge for Airlines is set apart from all other point solutions because it was designed to be infinitely expandable for you, using your data to meet your needs. Honeywell Forge consultants and data analysts are committed to teaching your team how to expand your capabilities and find greater savings. Honeywell Forge can take smaller airlines that could not imagine expansive analytics departments and deliver greater capability at a small fraction of the cost of their larger competitors “home grown” solutions. Meanwhile, the platform can also enable large airlines, more sophisticated with data science, to utilize its own in-house analytics, deployed on the platform at a fraction of the cost.

ACTIONABLE INSIGHTS FROM FORGE

- Predictive maintenance
- Lower fuel use
- Optimized block times
- Improved flight plans

KEY MAINTENANCE INSIGHTS EQUALS INCREASED AIRCRAFT AVAILABILITY

The connected maintenance module alerts your maintenance personnel of issues before they become an aircraft on ground (AOG), drastically decreasing costs and increasing aircraft availability. Our algorithms sift through nuisance fault messages coming off your aircraft and only alert you when there is a 98% probability that a failure is imminent. Not only can Honeywell alert you before a failure occurs, it is prescriptive about exactly what corrective actions are required to fix the imminent failure.

BRING ALL YOUR DATA INTO ONE PLACE

Honeywell pulls together aircraft information from a variety of systems including power, propulsion, mechanical, avionics, and electrical. Your data is securely cleaned, organized and stored exclusively for use, and is served through aviation’s most powerful analytics engine. Tap into Honeywell Forge and see fuel and flight efficiency, maintenance and ground operation performance through a single sign-on. Users in multiple departments can take advantage of our custom query capabilities to run analysis on thousands of data fields, maintenance and flight events for deep insights into operations. Our solutions are built on top of our world-class IoT platform, which features the latest in cybersecurity. It can also interface with other third-party platforms.

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ACTIONABLE INSIGHTS DELIVERED TO THOUSANDS

FLIGHT EFFICIENCY

Our Flight Efficiency module brings together all your flight variables in one single platform for a comprehensive look at fleet and environment data. The analytics team can discover and monitor savings opportunities by fleet, tail, airport, city pair, and more. All insights are provided to the pilots in the form of briefings and debriefings, including a new interactive mobile app.

CONNECTED MAINTENANCE

Our Connected Maintenance module is a nose-to-tail solution that analyzes aircraft data to deliver diagnostics and predictive, prescriptive alerts. It takes the surprises out of aircraft maintenance in order to decrease operational disruptions. It will deliver predictive and prescriptive insights directly to the maintenance team, so they could address issues promptly, while ensuring full digital history for every alert.