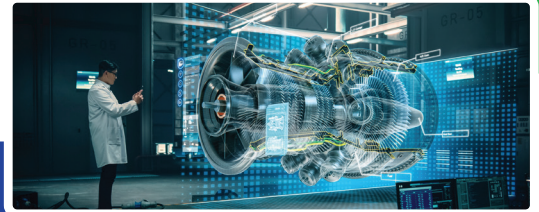


Aircraft downtime costs **\$10,000–150,000** per hour. Quantiphi's Root Cause Analysis Agent solves this by reducing troubleshooting time by **15–20%** and cutting maintenance costs by **12–18%**, ensuring your fleet stays mission-ready.



Problem Statement

Modern aircraft generate vast sensor data, yet maintenance teams face delays in pinpointing root causes, leading to extended downtimes, higher maintenance costs, and reduced mission readiness.

Mitigating financially risky Aircraft On Ground (AOG) events expose the business to severe financial risk, costing **\$10,000–150,000** per hour and collectively resulting in up to **\$60 billion** annually in lost revenue. This inefficiency directly jeopardizes mission availability and operational readiness.

Data Deluge

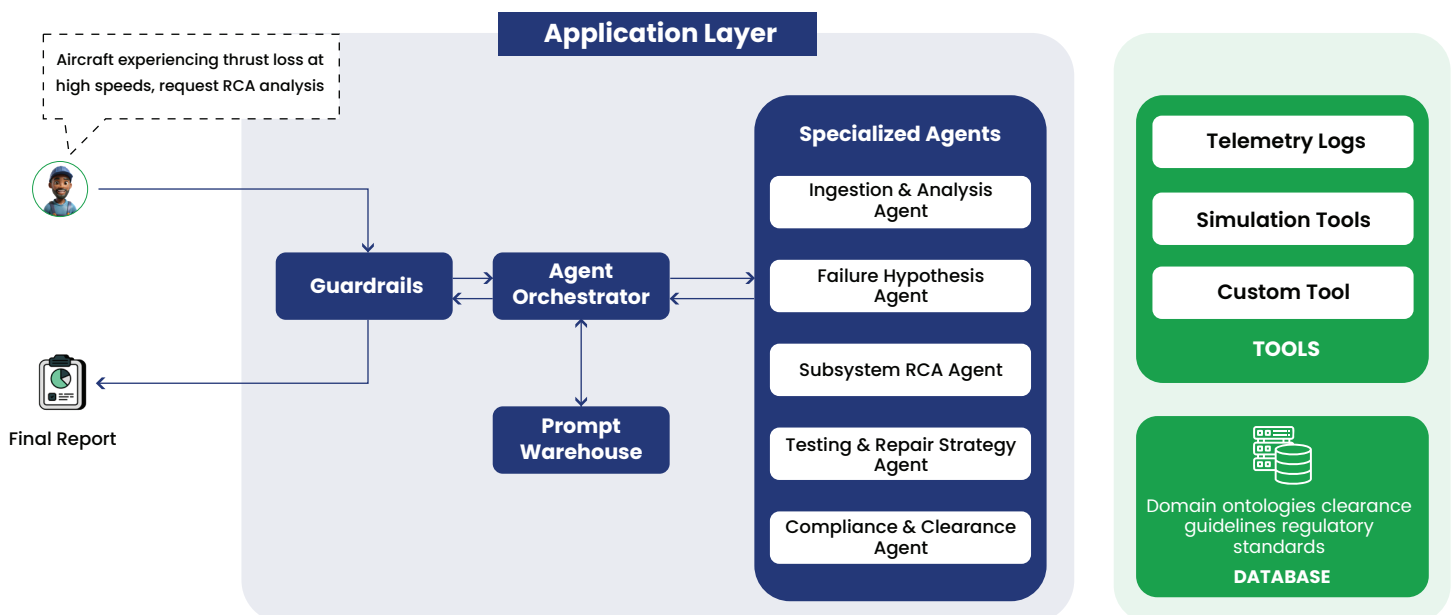
Aircraft generate terabytes of data. The volume makes it exceptionally difficult for teams to filter and **identify high-risk failure signals**, increasing the chance of missing a critical precursor event.

Manual Fault Isolation

Time-consuming, manual fault isolation processes delay critical decision-making, requiring extensive human investigation across complex systems. This lack of precision leads to repeated maintenance cycles and **higher operational expenditure**.

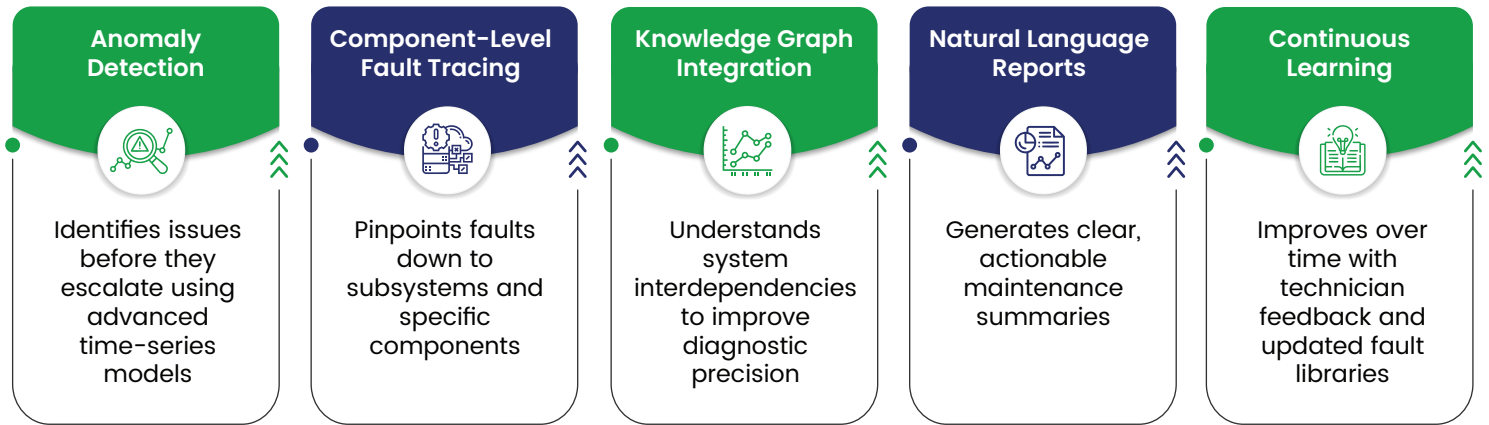
Solution

The Aircraft Anomaly Root Cause Analysis Agent is a strategic asset that accelerates fault detection and root cause identification. It is designed to empower maintenance teams to troubleshoot with unprecedented speed and precision, ensuring maximum operational availability.

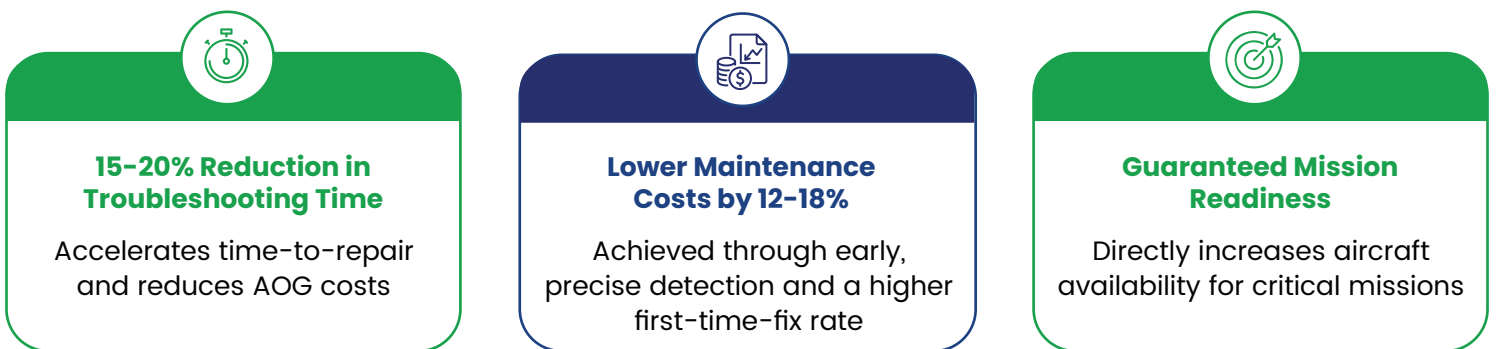


The system accelerates aircraft troubleshooting by analyzing data streams, pinpointing root causes, and suggesting mission-critical maintenance steps validated by technicians.

Key Features



Strategic ROI: Delivering Measurable Operational Advantage



**varies case by case*

Why Quantiphi?

Quantiphi provides end-to-end Multi-Agent Systems (MAS) tailored for aerospace. We blend AI, aerospace, and systems engineering expertise to build production-grade, compliant solutions with Human-in-the-Loop design. Leveraging NVIDIA AI Enterprise, we ensure seamless integration, coordination, and measurable outcomes.



Enhance aircraft efficiency and reliability with RCA Agentic capabilities

Schedule a 30-Minute Consultation

