**USE CASE**

**VISUAL PREDICTIVE MAINTENANCE FOR AIRCRAFTS**

Optimize maintenance costs and maximize asset availability with Computer Vision.

**Anticipate and address aircraft system issues before they interrupt operations**

**HOW IT WORKS**

Visual predictive maintenance systems can detect failures earlier and more effectively than human inspection. Using multi-spectral Computer Vision and AI, organizations can automate visual aircraft analysis, reduce mean-time-to-know and accelerate corrective action.

**BENEFITS**

**Minimize risk and reduce costs and with AI-driven predictive maintenance**

Using AI to analyze tip-to-tail image and video data for component part anomalies prevents failures before they occur resulting in:

- 35% reduction in aircraft maintenance costs
- 25% increase for time-in-air
- Reduction of manual inspection efforts and maintenance periods
- Prevention of costly maintenance-caused disruption

**Anomaly detection**

Detect corrosion, paint peeling, blade deterioration and rivet rash in aircrafts. Address specific maintenance concerns related to non-composite and composite material aircraft. Understand when new parts, components and overhauls will be required to keep equipment in use longer. Identify anomalies and faults in equipment and proactively warn personnel about possible issues.

**What sets Clarifai apart**

We pioneer comprehensive end-to-end AI solutions for the world’s airlines and governments that help reduce operating costs while maintaining high levels of service.

- Highest accuracy computer vision models for multi-spectrum sensors at the edge
- Automated data labeling and continuous learning for complex tasks and dynamic conditions
- 8 years of AI and research expertise with the world’s most innovation organizations

**FACILITY CLEARANCE & SECURITY POSTURE**

- [NIST 800-171](https://csrc.nist.gov/publications/detail/sp/800-171/rev-1)
- [HIPAA](https://www.hhs.gov/hipaa/)
- [C2C](https://www.c2council.org/)
- [SOC](https://www.soc2007.org/)
- [FISMA](https://www.fisma.gov/)

Contact us to learn more.

We can help you advance your AI projects. [Contact us](#) to learn about our platform.