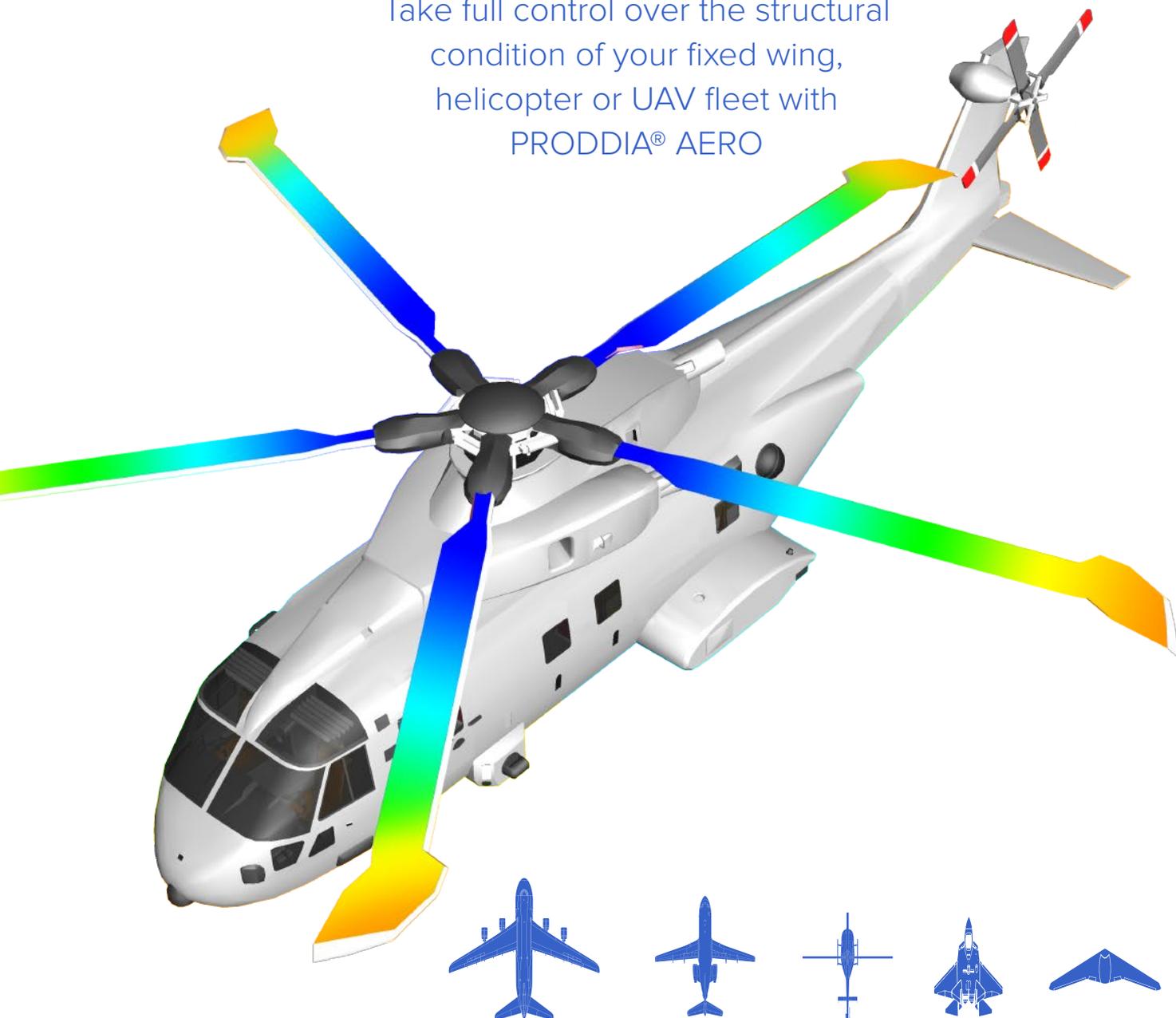


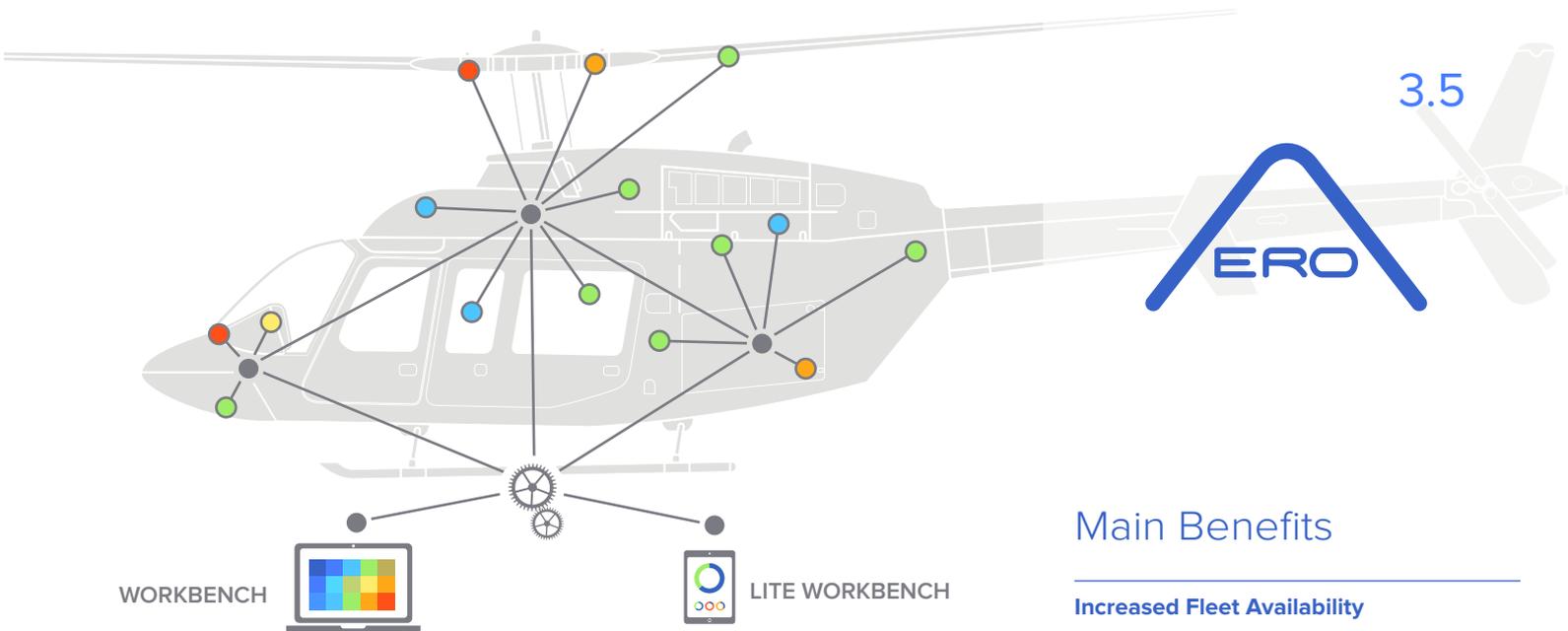
PRODDIA[®] AERO^{3.5}

Aerospace Structural Health Management Solutions

Take full control over the structural condition of your fixed wing, helicopter or UAV fleet with PRODDIA[®] AERO



PRODDIA[®] AERO is an integrated Structural Health Management system that provides key information on the structural condition of aircraft to O&M decision makers. With in-service visibility of structural integrity at fleet, system and component level, it increases availability, decreases O&M expenditure and reduces operating costs. PRODDIA[®] AERO is the most advanced platform for Structural Health Monitoring, Operational Loads Monitoring and Damage Tolerance Analysis of in-service aircraft.



PRODDIA® AERO effectively combines model and experimental data from your aircraft through a patented technology and uses the appropriate number of sensors to achieve an accurate diagnosis and prognosis of its structural status with an extremely high degree of reliability.

Using standard hardware, PRODDIA® AERO works with a wide spectrum of sensor technologies and data acquisition systems. Additionally, the system continuously tracks the quality and consistency of raw data from physical sensors. With PRODDIA® AERO, you get the ability to monitor both complex metallic and composite structures and locate failure modes such as cracks, deformation, debonding, delaminations.

PRODDIA® is a valuable tool to support life-extension programs in older fleets as it can be easily retrofitted into older aircraft.

Additionally, PRODDIA® AERO can be integrated with existing Integrated Vehicle Health Monitoring systems and Health and Usage Monitoring systems.

Within the platform, relevant information can be visualized and explored effectively and intuitively providing different customized versions for different usage scenarios, whether for control rooms or field operations.

The whole framework is easily deployable in terms of hardware and software.

Main Benefits

Increased Fleet Availability

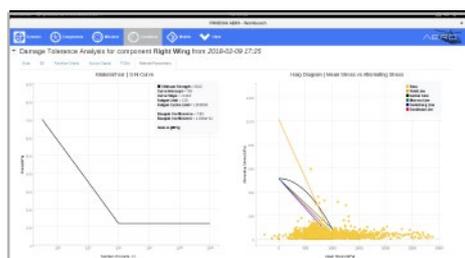
PRODDIA® AERO enables more operational hours as a result of the continuous analysis of monitored components/substructures.

Significant Reduction in O&M Expenditure

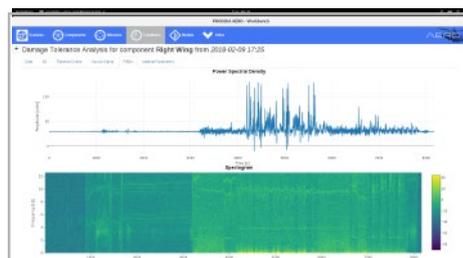
PRODDIA® AERO provides more cost-effective O&M operations stemming from the in-depth analysis of monitored components/substructures. The system detects, localizes and estimates the severity of structural malfunction, and assesses its remaining useful life. The results are easily integrated with most standard maintenance management systems, significantly improving the efficiency of O&M planning (scheduled interventions, spare part management, etc.).

Extend Asset Life

PRODDIA® AERO provides the analytical platform for data driven Damage Tolerance Analysis and Operational Loads Monitoring.



New integrated stress analysis of load points



Get more insight of your how flight affects critical structures by inspecting the spectral plot of loads

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