With fewer new aircraft programs, rising operational costs and increased scrutiny around program efficiency, A&D companies need to optimize MRO operations to reduce costs and generate revenue.

By 2028, the global fleet and maintenance, repair and overhaul (MRO) market is expected to increase by nearly 50%.

A&D companies need to optimize MRO operations to reduce costs and generate additional revenue.

The prevalence of low-cost sensors, connectivity and analytics is enabling the digital transformation of operations.

A U.S.-based aircraft engine manufacturer has over 5,000 SENSORS installed on the aircraft, powered by its next-generation engines.

These sensors are connected using IoT and can generate UP TO 10 GB of data per second.

Simulation accelerates condition-based maintenance and maximizes cost savings through digital transformation.

Companies who invest in digital twins will experience a 30% IMPROVEMENT in cycle times of critical processes, including maintenance.

A well-structured digital twin of an aircraft enables performance tracking with 147% MORE ACCURACY and can track the aircraft at longer ranges.

Sources: Airlines.org, ANSYS.com, Aviation-Technology.me, Challenge.com, EY.com, MRO-Network.com, OliverWyman.com, PTC.com