

SIMULATION DRIVEN MISSION READINESS



EM Simulation for Defense

STRENGTHEN SURVIVABILITY AND RESILIENCE

Support low observability, E3 protection, hardening and resistance to threats such as EMP, HPM, lightning and RADHAZ.

VALIDATE EARLIER, MOVE FASTER

Reduce reliance on late physical testing by assessing electromagnetic performance earlier in the development process.

REDUCE PROGRAM RISK

Identify signature, interference and resilience issues sooner.

IMPROVE INTEGRATION ACROSS COMPLEX PLATFORMS

Optimize antennas, communications, EMC behavior and overall electromagnetic compatibility.

INCREASE MISSION READINESS

Connect electromagnetic performance with validation and operational needs.

Fluid Simulations for Defense Industry



PowerFLOW® is capable of simulating complex geometries in conditions at the edges of the flight envelope.



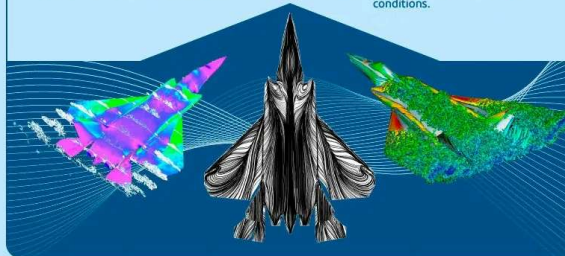
Provides a better understanding of the flow physics, allowing more efficient designs.



Optimizes and extends wind tunnel test campaigns, while extracting more value out of the results.



Reduces the risk of flight test campaigns, supporting the assessment of extreme flight conditions.



3 Key MODSIM Pillars for Defense



Application of 3DEXPERIENCE MODSIM for managing simulation model build, simulation driven design and non-conformance compliance procedures related to Engineering Analysis and Simulation best practices.



Complementary opportunities afforded by a 'test' management data structure to enhance the governing context behind 'what' is being simulated as well as affording capture of the additional contexts behind 'why, when, who and how' a particular simulation or simulation study is performed.



Workflow opportunities to organize, capture, relate & attribute data consumed or generated when executing a simulation activity, workflow or study, irrespective of data and 'tool' diversity.