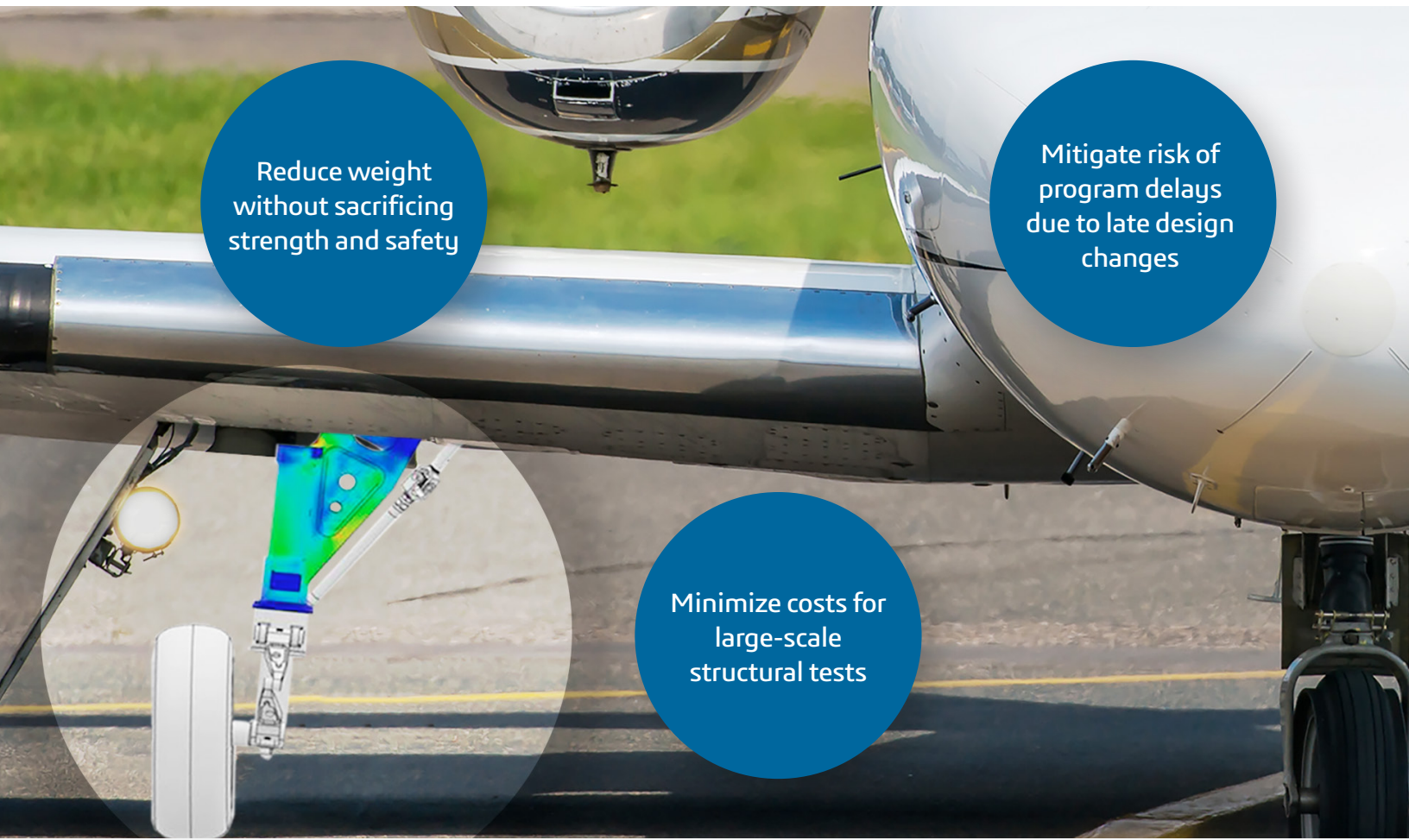


SUB-SYSTEM LEVEL STRUCTURAL VALIDATION

Achieve optimal lightweight design of aerospace structures by using highly accurate simulation tools for structural validation in all program phases

Weight reduction is a key challenge in the aerospace industry, addressed by lightweight design. Accurately predicting strength and deformation as well as fatigue and damage tolerance behavior of structures made from advanced lightweight materials ensures that

lightweight design principles are applied successfully. Fully integrated with design, SIMULIA solutions enable the consideration of structural certification requirements in all design phases.



Reduce weight without sacrificing strength and safety

Mitigate risk of program delays due to late design changes

Minimize costs for large-scale structural tests

Meeting weight targets is crucial for optimal flight performance

0.75% reduction in fuel from 1% reduction in weight¹

1 year/200 workers for a static full-scale airframe test²

50% of airframes made of advanced lightweight composites³

\$2720 per KG launch costs for low earth orbit⁴

Learn more >