

Weight & Cost Savings of Military Aircrafts



Source of information: Ball D, 2016: Paper REF 304115th
International Conference on Experimental Mechanics



Challenges

Reduce unnecessary thickness of components whilst maintaining safety.



How can I-SEC help?

Detailed characterisation of the location, magnitude and profile of residual stresses for reliable lifetime assessments.



Benefits

10-15% weight savings
26% potential cost reduction over lifetime, incl. £9 million fuel saving