

Cost reduction of advanced aerospace helmet and display



Expertise and domain knowledge

- Cost reduction
- Robust design
- System concepts
- Product life
- Manufacture



Our client asked:

Our client needed to reduce the costs of their advanced helmet and display whilst minimising weight and maintaining robustness.

The project story:

Sagentia Innovation proposed a range of cost reduction solutions, all maintaining what pilots like in the helmet:

- Novel processes, e.g. thixoforming metals for near net shape parts, resin transfer moulding composites
- Devised complete system concepts
- Considered the through-life costs of the system, including manufacture, alignment, tailoring to pilots

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Results: deliverables and outcomes

- The product now incorporates process improvements with system-level proposals fed into the future product plan.
- A cost reduction of 50% has been achieved, with maintained 'feel' and robustness.