## **Power sustainable aerospace innovation** with virtual prototyping technology



**Establish virtual testing for acoustic performance** and gain qualification from the outset



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Get new designs right 1st time



Emission friendly testing



Physical prototypes



Achieve desired comfort levels with lower noise emissions



Fewer processes, lower costs for tooling and scrap material

Superior sound performance



Get acoustic qualification right first time



**Record-breaking** acoustic performance **Joby Aviation** 



**Tooling development** time halved Shenyang Aircraft



Create your own metaverse to experience physical interactions with yet-to-be realized designs



Push engineering workflows months ahead of production



Power collaborative workflows



Double on-time



Gain hands-on experience of

product delivery

processes, virtually



**10-minute co-design** simulation locates 97% potential casting issues **Rolls Royce** 

caelestis

15% saving on tooling **budget & shortened design** timeframe by 18 months Caelestis



Leverage virtual manufacturing of high precision parts for a deeper understanding of material physics





Save natural resources



Leverage unlimited analyses and experiences



**Reduce seat weight by** an average of 4kg and **50% fewer parts Expliseat** 



**Automate detection of** critical size defects in nickel-based superalloys with 85% accuracy **MTU Aero Engine** 

## Ready to ramp up your transformation journey?

Discover how ESI's solutions empower you to innovate without compromise.

Find out more:

www.esi-group.com/industries/aerospace-defense



