Welcome to the High Rate Aerostructures Fabrication IACMI Working Group

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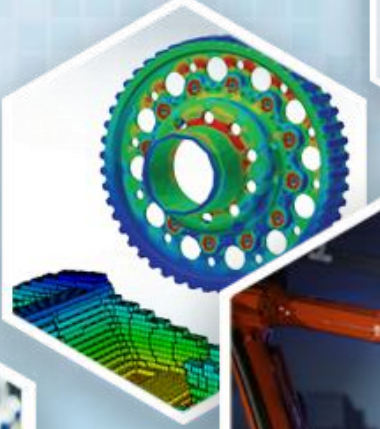
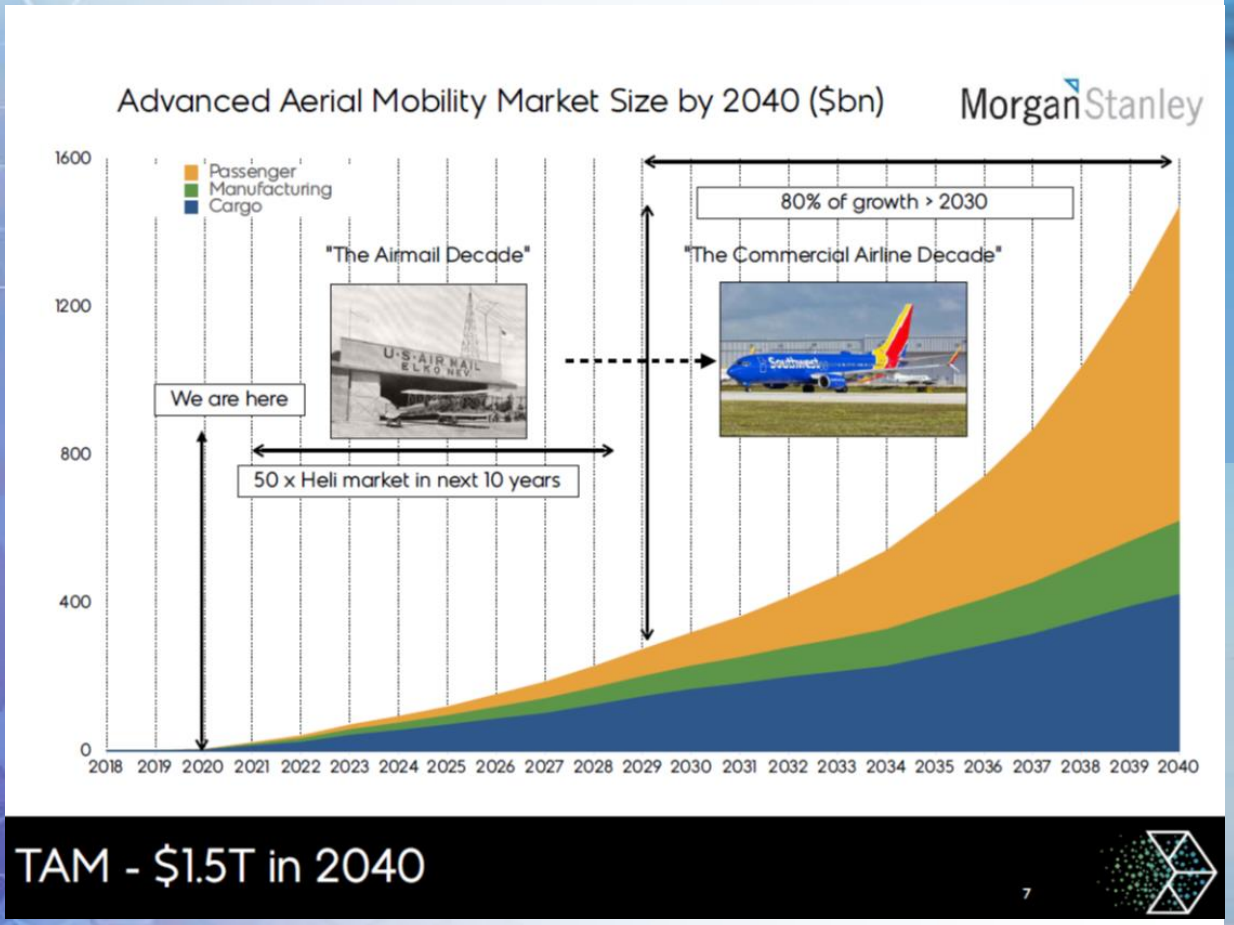
October 5, 2021



High Rate Aerostructures Fabrication Working Group Objectives

- Facilitate communications regarding issues and opportunities
- Maintain a technology development roadmap
- Communicate manufacturing R&D projects for funding opportunities
- Formulate and conduct directed manufacturing R&D
- Support technology transition through conferences and workshops

Growing Commercial and Military Applications



TAM - $1.5T in 2040

Panel Discussion – 5 October 2021

Panel: High Rate Aerostructures Manufacturing Challenges and Opportunities

Craig Neslen	(Air Force, LCAAT Manufacturing Lead)	(Low cost composite structures)
Timothy Luchini	(Boeing, Manager-Next Generation Composites)	(UAM composite structures)
Greg Gemeinhardt	(GE Aviation, Consulting Engineer-Composites)	(Jet engine composite structures)
Stephen Heinz	(Solvay, Research Head of Composites)	(Trans. of new materials)
Dominic Bloom	(iCOMAT, Senior Applications Engineer)	(Trans. of new preforming technology)
Tom Margraf	(Hawthorn, President)	(Part manufacture, new methods)

Format: Present 10-15 minutes, 5 minutes for Q&A, then after all panelists have spoken open Q&A for the full panel.

Panel Questions

- In aerospace composites, what are disruptive technologies that will enable advanced manufacturing (increased throughput, performance, complexity , reduce cost). Which of these technologies do you think could be implemented in the next 5 years and what may take longer to adopt?
- What traditionally non-aerospace technology is ripe for adoption by aerospace markets?
- What disruptive role does e-VTOL, UAM, attritable aircraft play in the manufacturing development?
- Where might IACMI projects have the greatest benefit?