A COLLABORATIVE APPROACH
Cross-functional MTC team making use of a wide range of technology and industry knowledge
A collaborative approach, integrating with other work packages and project partners
Prioritised ranking of digital technologies based on Dowty requirements
Collaboration with a wide range of technology providers to select and configure the most appropriate solutions and plan adoption

INDUSTRY 4.0 TECHNOLOGIES FOR COMPOSITE AEROSPACE PROPELLER MANUFACTURING
The DigiProp consortium, led by Dowty Propellers (GE Aviation), is a collaborative research project that has developed technologies within a new digital infrastructure, delivering benefits in propulsion performance and cost efficiency. Through work package 4 of DigiProp, Dowty and the MTC have developed and demonstrated new smart factory concepts for more efficient production of propellers systems.

THE CHALLENGE
- Develop and validate new factory concepts for more efficient production of composite blades and propellers utilising digital manufacturing technologies
- Realise improvements in operational metrics such as Overall Equipment Effectiveness and production lead time
- Assess hardware, software and systems architectures that can support the production of the next generation of Dowty Propellers products

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"The MTC have given a real boost to our intellectual capabilities, helping us to understand how to get the best out of our factory, highlighting the tools that are available to us and identifying suitable technology partners."

Simon Peckham, Manufacturing and Training Leader, Dowty Propellers
The DigiProp project has allowed us to consider what the Digital Thread looks like for propeller systems, from initial customer requirements, through design and manufacture and into service.

Jonathan Chestney, Engineering Leader, Dowty Propellers