

Additive Manufactured BLISK To Sky

Enabling Industries Through Implementation of Additive Manufacturing in Aerospace



Motivation and Relevance

- Sustainable production of complex geometry engine components to increase efficiency and fuel efficiency is limited by the constraints of conventional manufacturing processes.

Approach

- Development of a process chain for engine components based on **Additive Manufacturing (PBF-LB/M): Interaction of process steps** to achieve maximum shape, dimensional stability and homogeneous material properties, taking into account **Aerospace Standards**.

Results

- Investigation of the intercorrelations between different players of the engine component supply chain
- Reduced material consumption through PBF-LB/M and usage of necessary support structure to avoid vibrations during the subtractive finishing process

The project underlying this publication was funded by the Federal Ministry for Economic Affairs and Climate Action under grant number 20T1925. The author is responsible for the content of this publication.

Research Area

- Aerospace industry
- Energy

Partners



Supported by

Supported by:



on the basis of a decision
by the German Bundestag

Picture



Contact



Jonas Boseila
jonas.boseila@
dap.rwth-aachen.de
www.dap-aachen.de