

DREAM

Objective

The aim of DREAM is to significantly improve the performance of laser **Powder Bed Fusion (PBF)** of titanium, aluminium, and steel components in terms of speed, costs, material use and reliability, also using a Life Cycle approach, whilst producing work pieces with controlled and significantly increased fatigue life, as well with higher strength-to-weight ratios.

The motivation for the project is to go far beyond the state of the art in laser-based Powder Bed Fusion, by mastering of all stages of the process chain; among the numerous industrial applications, the project is focused on components for prosthetic, automotive and moulding applications to optimize the procedure respectively for titanium, aluminium and steel.

DREAM targets the development of a competitive supply chain to increase the productivity of laser-based Additive Manufacturing and to bring it a significant step further towards larger scale industrial use.

Project

Title: Driving up Reliability and Efficiency of Additive Manufacturing

Acronym: DREAM

Call identifier: H2020-FOF-2016

Topic: FOF-13-2016: Photonics Laser-based production

Funding scheme: Research and Innovation Action

Grant Management number: 723699

Duration: 36 months

Start Date: 01 Oct 2016

Estimated Project Cost and EU Contribution: € 3,242,435.00

Project Website: www.dream-euproject.eu

Project Contacts:

Project Coordinator: Elena Bassoli, elena.bassoli@unimore.it

Project Manager: Isella Vicini, isella.vicini@warrantgroup.it

Dissemination Manager: Massimo Rinaldi, massimo.rinaldi@warrantgroup.it



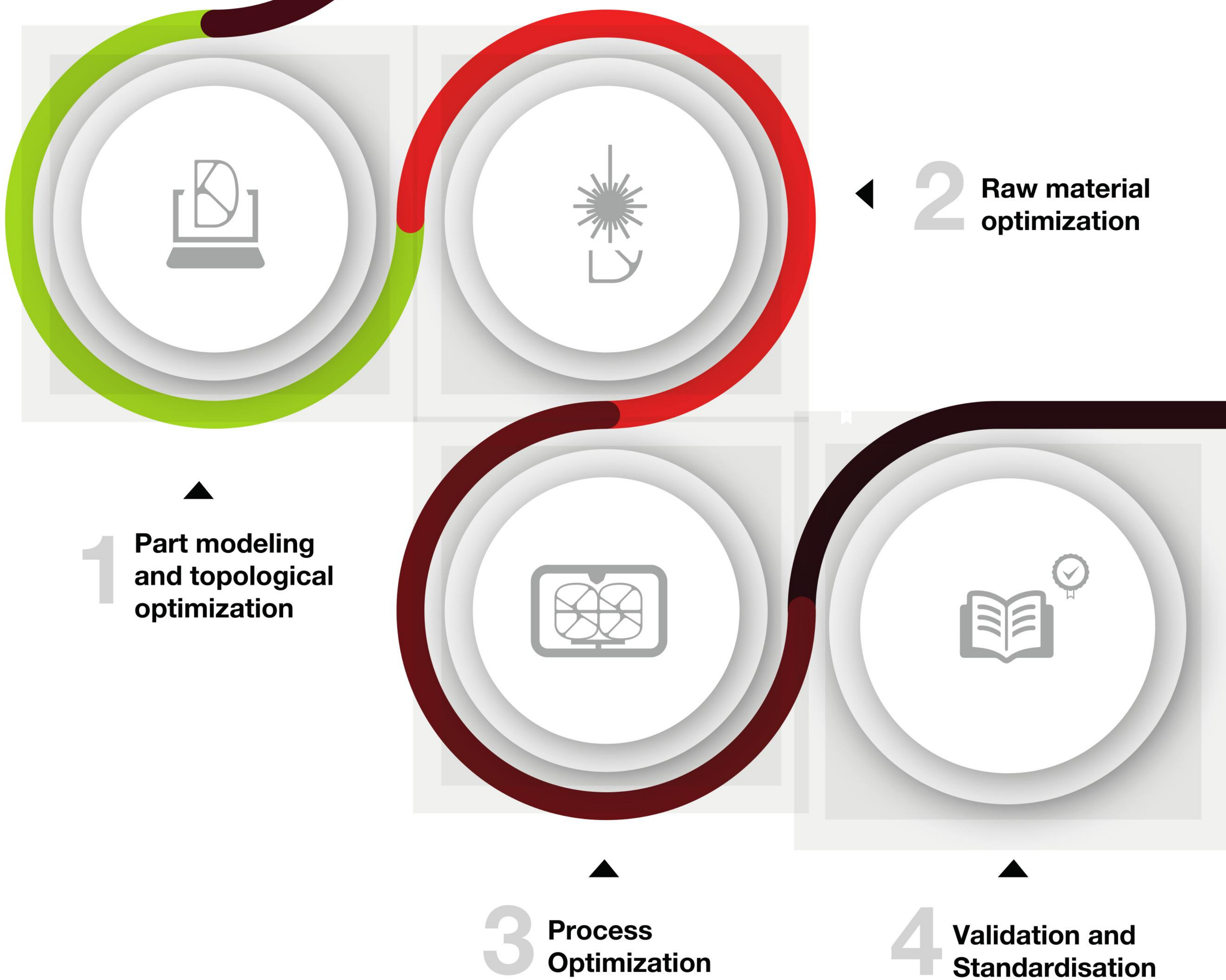
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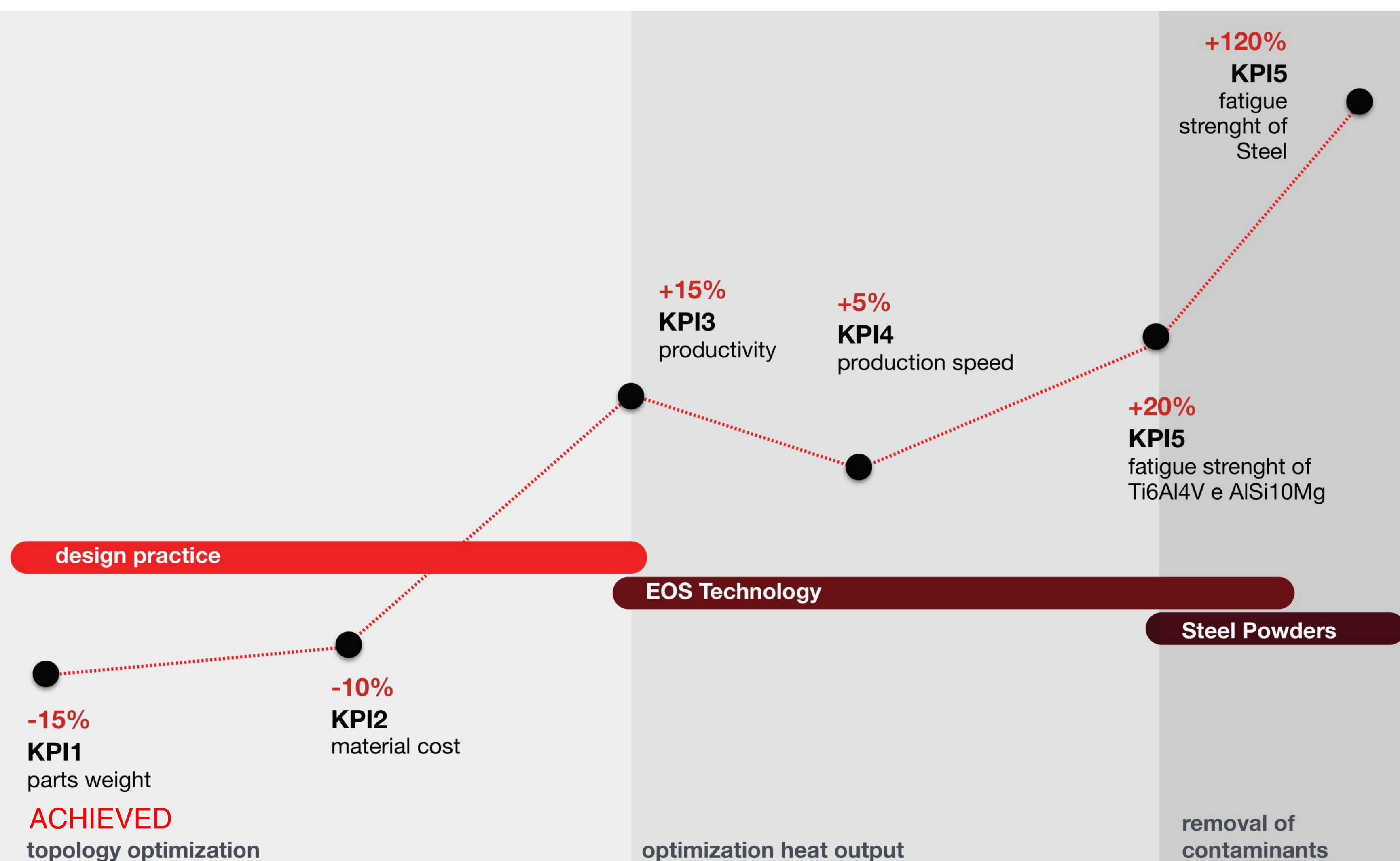
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The Challenges



Innovation Target

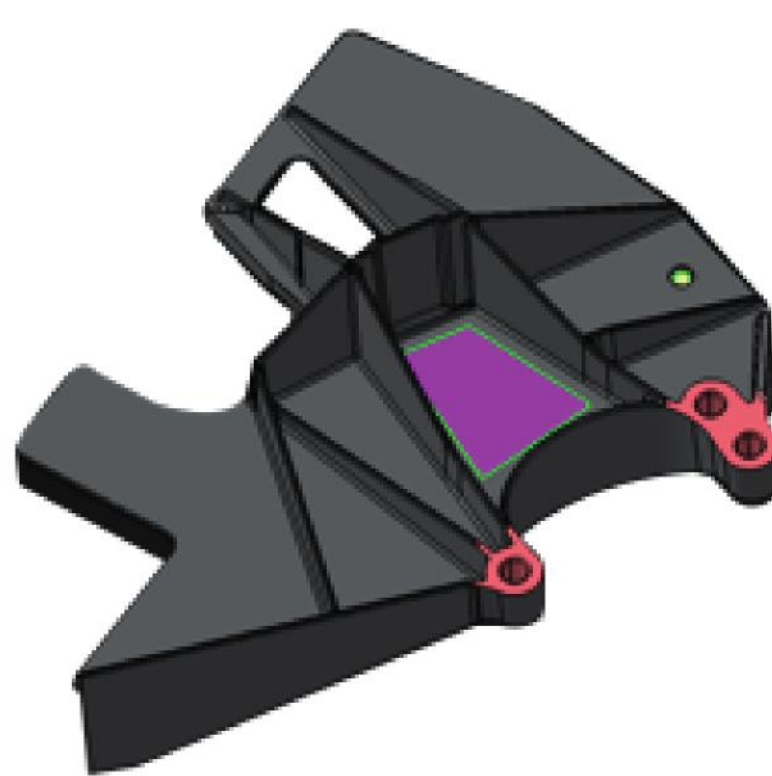


Business Cases

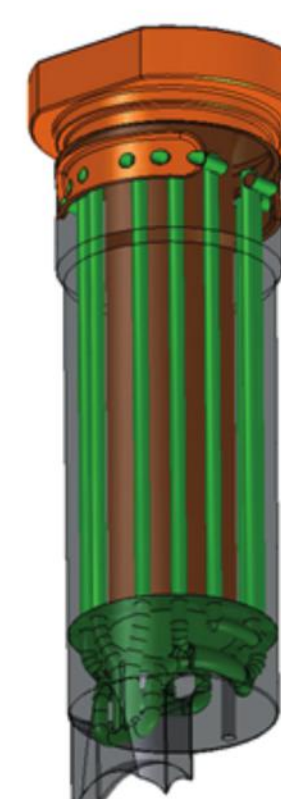
1 Medium size prosthetic titanium components



2 Lightweight automotive Aluminium components



3 Mould inserts



PHOTONICS²¹
PHOTONICS PUBLIC PRIVATE PARTNERSHIP



Factories of the Future
Public Private Partnership

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HORIZON2020