

# Development of Ceramics 3D Printing and Additive Manufacturing



DOC-3D-PRINTING, Development Of Ceramics 3D Printing and Additive Manufacturing, is an innovative training network that consists of 6 academic, 1 non-profit association and 7 industry (Large companies and SME) participants focused on ceramics 3D printing or Ceramics Additive manufacturing applied on medical and aerospace fields.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 764935



## THE PROJECT

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High-value ceramics are widely utilised in high-end engineering disciplines due to their low density, outstanding mechanical strength alongside with their excellent thermal, corrosion and wear resistance for aerospace, and medical applications.

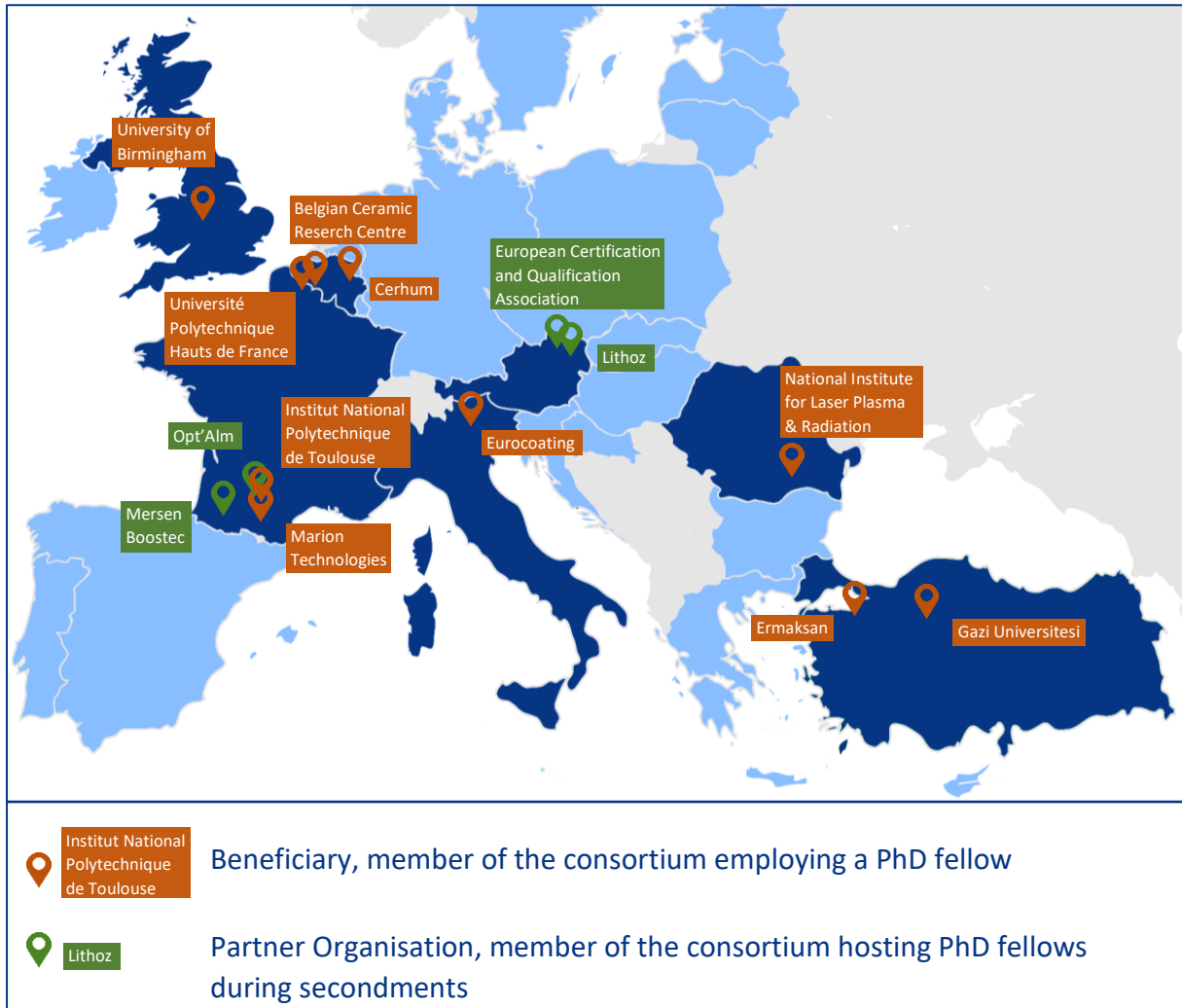
However, conventional manufacturing techniques are time-consuming and show several limitations, such as geometrical variation induced by the shrinkage during sintering and low material yield, alongside with high tool wear during milling and machining. As of today, these drawbacks impede the industrial utilisation of these ceramic materials for a growing range of engineering and medical disciplines.

To tackle this problem, DOC-3D-PRINTING will train a new generation of Early-Stage Researchers (ESRs) to develop the whole value chain of ceramics 3D printing from elaborating feedstock to testing products for commercialisation.

Receiving 3.5 million euros of funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 764935, this project has a duration of four years from 1<sup>st</sup> May 2018 until 30<sup>th</sup> April 2022 and is coordinated by Institut National Polytechnique deToulouse.

# THE PARTNERS

The consortium is made up of 14 different partners from 7 different countries.



The close interactions between academic and non-academic sectors within research activities is a key aspect of the project in order to transfer scientific knowledge to the market and strengthen the education of PhD fellows through relevant skills and an enhanced competitiveness. The DOC-3D-PRINTING network has been built to reach these objectives through complementary resources.

# DOC3D PRINTING

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