

## DEVELOP AND DEMONSTRATE A DIGITAL AND GREEN LASER TEXTURING APPROACH TO GENERATING COMPLEX MULTIFUNCTIONAL SURFACES







## ABOUT SYNTECS

SYNTECS aims to develop and demonstrate a digital and green laser texturing approach to generating complex multifunctional surfaces.

A machine platform will be developed (TRL6), that enables interchangeable Direct Laser Writing (DLW), Direct Laser Interference Patterning (DLIP) and Laser Induced Periodic Surface Structuring (LIPSS), with a multi-axis motion stage for processing complex geometries and an inline monitoring and control system. SYNTECS demonstrators will be designed using a Design for Surface Engineering software module, which will incorporate LCA guidance combined with predictive performance modelling to enable sustainable-by-design decision making.

## Meet OUR Consortium

































