

SYNTECS

SUSTAINABLY AND DIGITALLY DRIVEN HIERARCHICAL LASER TEXTURING FOR COMPLEX SURFACES



NEWSLETTER #1



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SYNTECS | Training Session

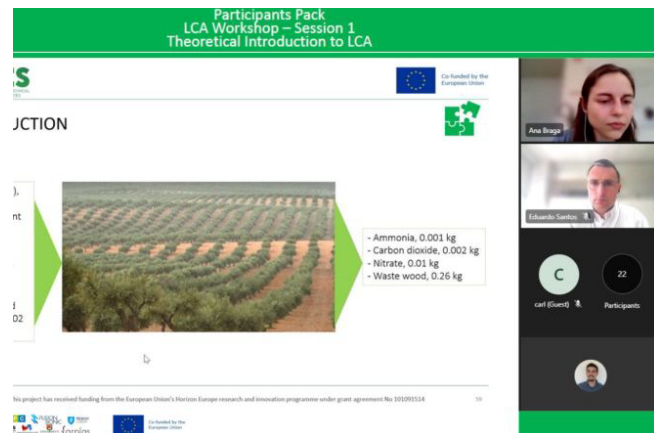
3drivers, partner of the SYNTECS Project consortium, organised on 4th May a training session on Life Cycle Assessment (LCA).

The session focused on the SYNTECS consortium with the objectives of:

- Understanding what LCA is and how it is conducted
- Understanding the type of data needed to conduct an LCA
- Getting to know existing tools to conduct an LCA
- Gathering initial insights into of each use case to demonstrate what the LCA work would be for the project

See the session in SYNTECS youtube: <https://www.youtube.com/@SyntecsProject>

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SYNTECS | Project Meeting (M6)

After 6 months of work and activities, the consortium met in an online meeting on 11 May to discuss the status of the project!

During the meeting, several discussions were held on the implementation of the project and the guidelines set for the coming months, focusing on the SYNTECS specification.

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SYNTECS | LASER World of PHOTONICS

Taking advantage of the opportunity for partners to be present at the **LASER World of PHOTONICS** fair, held in Munich during June 27-30, SYNTECS Project was also present.

There were 3 days of knowledge exchanges and collaborations where our team of experts shell interact with other pioneers in the field.

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SYNTECS | Project Meeting (M12)

The SYNTECS Consortium met on 22nd and 23rd of November, at European Federation for Welding, Joining And Cutting (EFW) facilities in Oeiras, Portugal for the 12th Month Meeting.

In a near future our end-users, STELLANTIS, DePuy Synthes, FARPLAS and European Thermodynamics Limited will have the chance to start seeing their products textured! Isn't it amazing?

The consortium has defined the strategy for 2024 and strengthened the relations between the partners. Bear with us and get to know the latest news on SYNTECS!

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SYNTECS | Bionic Laser Forum in 2023

Fusion Bionic organized the first Forum of its kind dealing with nature-inspired innovation for surface treatments, allowing prominent experts in biomimicry to share their insights.

In the first segment, we delved into expert presentations covering bionic surfaces, laser functionalization, and cutting-edge product development. The depth of insights shared was truly remarkable!

The second part was even more immersive as we conducted lab tours and demonstrations on surface functionalization using laser interference technology. Participants engaged in small group sessions, exploring the SYNTECS module's functionalities and its pivotal role. With attendees from 6 different countries, totaling 42 participants, the international collaboration and knowledge exchange were exceptionally fruitful.

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SYNTECS IN 2024

During this year, the focus will be on participating in various events, such as conferences, webinars and joint events with other clusters and projects. Training events will also be a priority for the project in 2024!

Stay tuned for more news on SYNTECS developments.

PARTNERS

The consortium consists of world class research organisations including Fraunhofer IWS and Fraunhofer IML (Germany), the University of Birmingham (UK), Centre Technique Industriel de la Plasturgie et des Composites – IPC (France), IST-ID (Portugal), Manufacturing Technology Center (UK) and the European Federation for Welding, Joining and Cutting (Belgium). Bringing their technology expertise are Laser Engineering Applications SA - LASEA (Belgium), Fusion Bionic (Germany), 3 Drivers (Portugal) and Iconiq Innovation Ltd (UK). End users providing application case studies in the automotive, medical, and electronics sectors are Centro Ricerche Fiat - CRF (Italy), Farplas Otomotiv Anonim Sirketi (Türkiye), DePuy Synthes (Ireland), and European Thermodynamics Limited (UK).

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