

CompPair is proud to work with ArianeGroup to shape the future of access to space for a faster turnover of reusable vehicles to reduce launch costs.

CompPair Technologies Ltd. joins the ArianeGroup consortium to define the 2025-2050 technology and demonstrators roadmaps for the European Space Agency (ESA) reusable space vehicles. This work is part of the New European Space Transportation Solutions (NESTS) framework and specifically for the Post Themis Reusability ITT.

CompPair's technology is a ground-breaking innovation in the field of self-healing composites reducing maintenance costs, manufacturing defects while extending the lifetime of composites. The result of 12 years of research at EPFL in Switzerland, CompPair's first product line, HealTech™, is a new type of prepreg giving composite the ability to heal matrix cracks and delamination in a few minutes and be better recycled. Made with HealTech™, composite structures can be repaired on site as the parts stay structural during healing and recuperate 100% of initial properties after healing.

CompPair's products are a perfect fit with the reusable launch system trend, offering the possibility to reduce composite repair time from hours to one minute, enabling faster launcher turnover and cost reduction with a long lasting, fast, and cheap repair keeping the fibres' integrity. Those benefits can directly impact the production and use phases of composite parts, from outstanding machinability to ultra-efficient maintenance, enabling costs efficiency at different levels. Developing healable composites in line with the industry requirements is CompPair's core knowledge. The work with ArianeGroup will enable CompPair to align its technological roadmap with the future of space!

With this work, CompPair and ArianeGroup contribute to NESTS' aim to reduce environmental impact of the space industry with reusable vehicles. The CompPair healing process can emit 129 times less CO₂ than standard composite repair and reduce material consumption.

CompPair's vision is to bring full circularity to the composites industry, and collaborating with ArianeGroup, a world leader in access to space, is an honor and start of a new era for CompPair after joining the European Space Agency Business Incubation Centre Switzerland in 2020.

About CompPair Technologies Ltd.

CompPair Technologies Ltd. developed a new composite material able to repair itself and be better recycled. HealTech™ is a ground-breaking innovation in the field of self-healing composites, enabling the production of composite structures that can heal damage on site in 1-2 minutes. The technology acts during the whole lifetime of products, helping manufacturers, consumers, and the planet. The team shares strong values of innovation, commitment and reliability and its vision is to bring full circularity to the composites market by enabling lifetime extension and efficient end-of-life management.

Communication relations

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