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STRENGTHENING MAZOVIAN MULTIFUNCTIONAL COMPOSITE ECOSYSTEM THROUGH STRATEGIC ALLIANCE WITH EUROPEAN LEADERS

Press release: Launch of the COMP-ECO project
Location: Mazovian region of Poland
When: From now until December 2025
Project website: https://www.comp-eco.eu/

A new Widening project funded by the European Commission under Horizon Europe has just been launched.

The COMP-ECO project – an abbreviation for 'Strengthening Mazovian multifunctional composite ecosystem through holistic approach and strategic alliance with European leaders'– is aiming at improving the research excellence of the Polish Mazovia region-based ecosystem in the field of Fibre-Reinforced Polymer (FRP) multifunctional composites and smart structures. The ecosystem is formed by 3 organizations: Technology Partners Foundation (TPF), Air Force Institute of Technology (AFIT) and Warsaw University of Technology (WUT). These 3 Polish partners will be supported by two leading EU universities: Delft University of Technology from the Netherlands and Technische Universität Dresden from Germany.

Project aim

The COMP-ECO aim is to improve the research excellence and raise the research profile of the participating institutions and to create a sustainable network for scientific and technological co-operation in the field of Fibre-Reinforced Polymer (FRP) multifunctional composites and smart structures.

Activities planned

During the next 3 years the COMP-ECO partners will jointly implement exploratory research work to develop a technology for a permanent on-line non-destructive quality assessment of composite structures. For this purpose 2 possible innovative sensing capabilities will be developed: (1) self-diagnostics capabilities through the introduction of electroconductive carbon nano tubes in the composite's matrix during the manufacturing process and (2) self-sensing capability through embedding PZT sensors, encapsulated in a thermoplastic fibrous material (veils), in the composite structure.

The project will organize technical workshops, networking and training activities for researchers, aimed on raising the research profile of Mazovian composite community and enhancing their scientific and technological capacity in the filed of multifunctional composites and smart structures.

In addition to the scientific and technological aspects, the Twinning scheme puts a strong focus on strengthening research management capacities and administrative skills of the Polish partners' administrative staff, which will be realized via a series of workshops delivered by the Advanced Partners' experts.

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Expected impact

The COMP-ECO activities will establish and strengthen a regional competence hub formed by TPF, AFIT and WUT, whose increased science and innovation capacities will lead to more ambitious collaboration with top EU research organisations and industry, higher participation in Horizon Europe, and a more attractive educational offer for students and young researchers.

The Project it is expected to allow the widening Partners increase the no. of publications in high impact journals, increase of the number of M.Sc. and/or B.Sc. theses in the Project's field of research and lead to joint project applications (Horizon Europe or other),

More intensive participation of the Polish partners in EU competitive research will in turn contribute to the dynamic regional composites market development in line with Polish National Smart Specialisations, the Made in Europe Partnership objectives and the Green Deal assumptions.

For more information on the project and the Polish partners, please visit www.comp-eco.eu

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