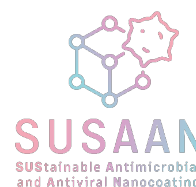


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3rd PRESS RELEASE

SUSAAN

SUSustainable Antimicrobial and Antiviral Nanocoating

The SUSAAN project, initiated in June 2022, is dedicated to the synthesis of innovative Active Nanomaterials (ANMs). Over the initial 18 months, our research partners diligently conducted experiments on various nanomaterials at the laboratory scale. This encompassed inorganic nanoparticles, bio-based nanofibers, bio-active extracts, and composite materials, notably biobased-inorganic and organic–inorganic hybrid nanomaterials and nanocapsules.

At present, the consortium is actively engaged in evaluating the most promising ANMs. This assessment is based on crucial factors such as antimicrobial and antiviral efficacy, toxicity, and eco-toxicity results, in addition to preliminary Life Cycle Assessment (LCA) sustainability indicators. The LCA considers environmental, economic, and social aspects in its evaluation.

These activities have paved the way for the subsequent phases of the project. Our focus now shifts towards formulating nanocoatings using selected ANMs. Following this, the integration of nanocoatings into the sustainable design of high-traffic industrial objects—ranging from plastics and metallics to textiles—will be undertaken. Furthermore, our industrial partners will validate the sustainability and technical advantages of these solutions in comparison to existing market alternatives, adhering to the evaluation criteria of the Biocidal Products Regulation (BPR).

The SUSAAN consortium, characterized by outstanding teamwork and unwavering commitment, has actively explored potential synergies with other European-funded projects. This collaborative approach not only strengthens working relationships but also contributes to the advancement of safer and more sustainable antiviral and antibacterial nanocoating solutions.

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