

SUSAAN: Development of Antimicrobial and Antiviral Nanocoatings for textile, plastic and metallic objects

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SUSAAN project aims to develop sustainable antiviral and antimicrobial coatings based on active nanomaterials, such as bio-based active materials and inorganic nanoparticles, including the development of fast active-response and durable surfaces, taking into consideration their ease of use, low toxicity, and health issues, and targeting a global sustainability concept.

Toxicological, ecotoxicological and several tests for the new active substances and resulting coatings will be performed and a full sustainability assessment, understood as environmental, economic, and social impact analysis for the required product will carry out.

Three relevant market sectors are selected to validate the results of the project, where the antiviral and antimicrobial additives according to efficiency, durability of effects/integrity of the coating and toxicity results at lab-scale will be used for each real application in the textile, plastic and metallic industries.