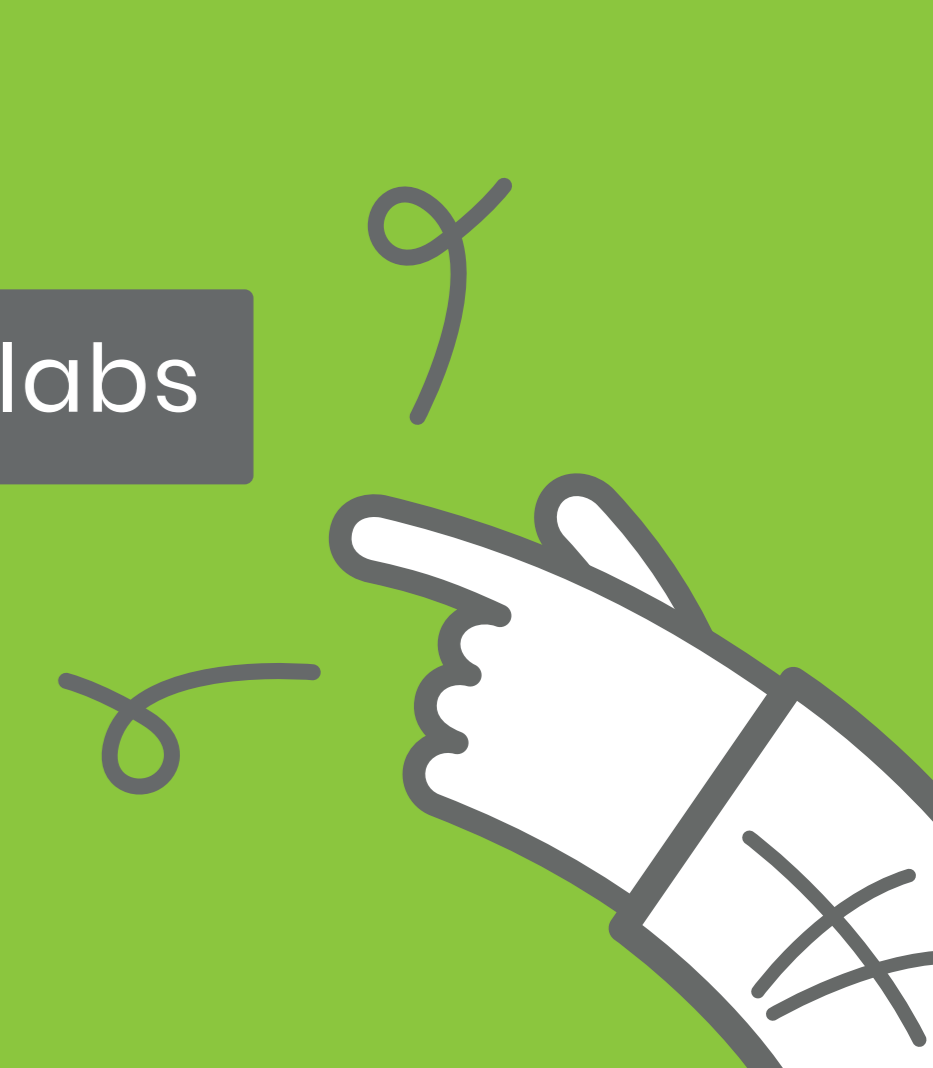




Sustainable nanoPaRticles Enabled antiMicrobial surfaceE coatings

- Textiles
- Metal
- Alloys
- Ceramics
- Tiles
- Marble
- Stone slabs
- Paper
- Cardboard
- Plastics



THE PROJECT

The catastrophic ongoing pandemic caused by SARS-CoV-2 in 2020 has attracted our the attention of the general public towards the spread of harmful pathogens facilitated by high traffic surfaces, highlighting the importance and urgency of an economically and environmentally sustainable solution for antimicrobial surface as a potential strategy to mitigate the spread of disease outbreaks.

Nanoparticle (NP) filled coatings, with recognised effectiveness against bacteria, viruses, and fungi, are could be valuable candidates for developing antimicrobial surface and minimising the surface adhesion of pathogens. However, due to the many technical challenges, including difficulty to develop nanocoatings with a long-term antimicrobial capability, durability under real conditions, and safety assurance, their application at industrial level is stillremains limited.



€ 4.737.523 budget



48 months






19 partners



8 countries




- BELGIUM**
 - KU LEUVEN
 - BioTec
- THE NETHERLANDS**
 - WAGENINGEN UNIVERSITY & RESEARCH
- NORWAY**
 - Norwegian University of Science and Technology (NTNU)
- UNITED KINGDOM**
 - AkzoNobel
 - DuPont Teijin Films
 - FiberLean Technologies
 - UNIVERSITY OF BIRMINGHAM
- ITALY**
 - CRF
 - NEXT TECHNOLOGY
 - INNOVATION ENGINEERING
 - TRAFI
- PORTUGAL**
 - PNO
- SPAIN**
 - tecnal@a
- GREECE**
 - PCN nano materials
 - HELENIC REPUBLIC National and Kapodistrian University of Athens
 - ORYKTON
 - isomat

 #supreme-coating
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