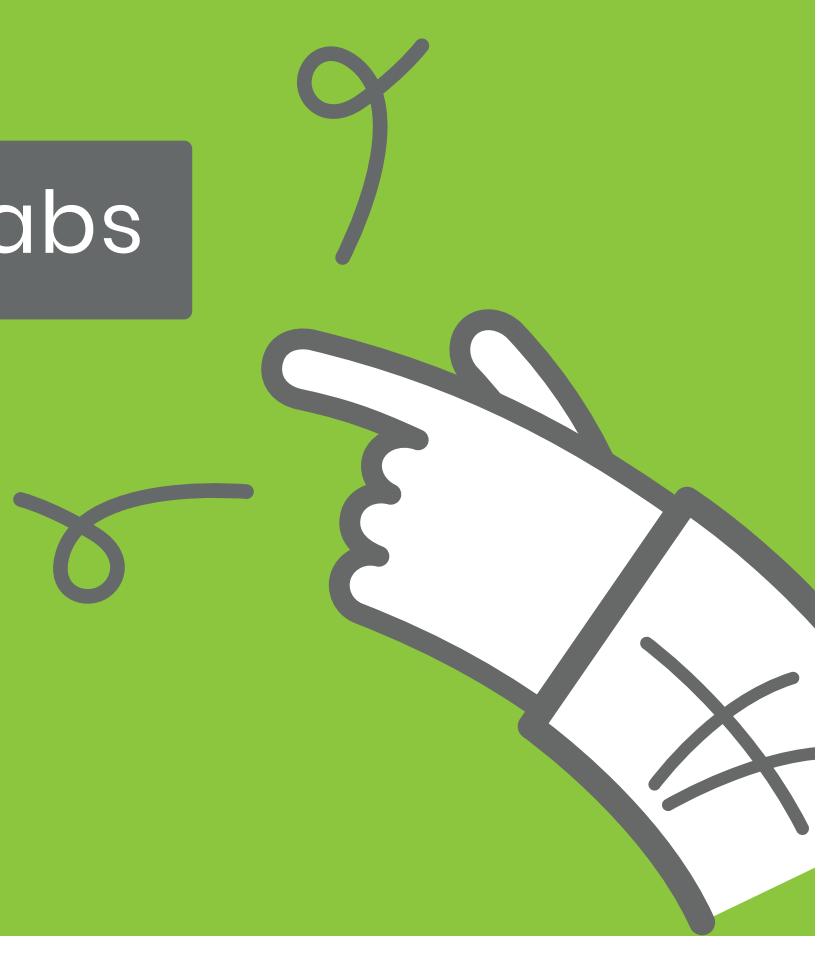
SUPREME

SUstainable nanoPaRticles Enabled antiMicrobial surfacE 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
National Institute for Public Health and the Environment
Ministry of Health, Welfare and Sport

● NORWAY
NTNU
Norwegian University of Science and Technology

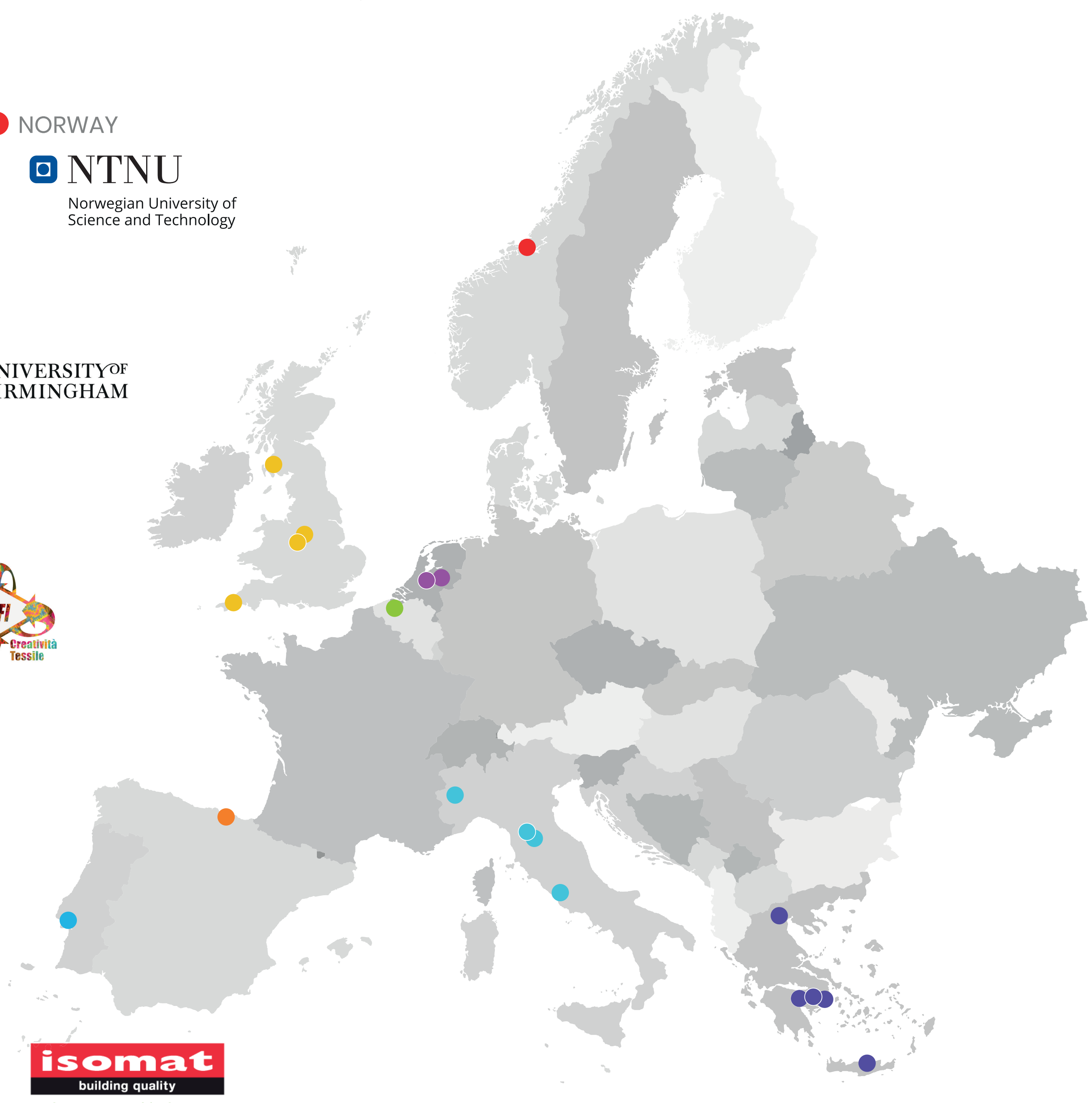
● UNITED KINGDOM
AkzoNobel
DuPont Teijin Films™ Innovation | Partnerships | Sustainability
FiberLean Technologies Innovative by nature
UNIVERSITY OF BIRMINGHAM

● ITALY
CRF
NEXT TECHNOLOGY TECNOTESSILE SOCIETA' NAZIONALE DI RICERCA R. L.
PNO INNOVATION
TRAFI Creatività Tessile

● PORTUGAL
PNO INNOVATION

● SPAIN
tecnalia
MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

● GREECE
PCNano materials
HELLENIC REPUBLIC National and Kapodistrian University of Athens
ORYKTON Exploring Growth Oceans
isomat building quality for a sustainable future



#supreme-coating

@supreme_eu_proj

www.supreme-project.eu

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