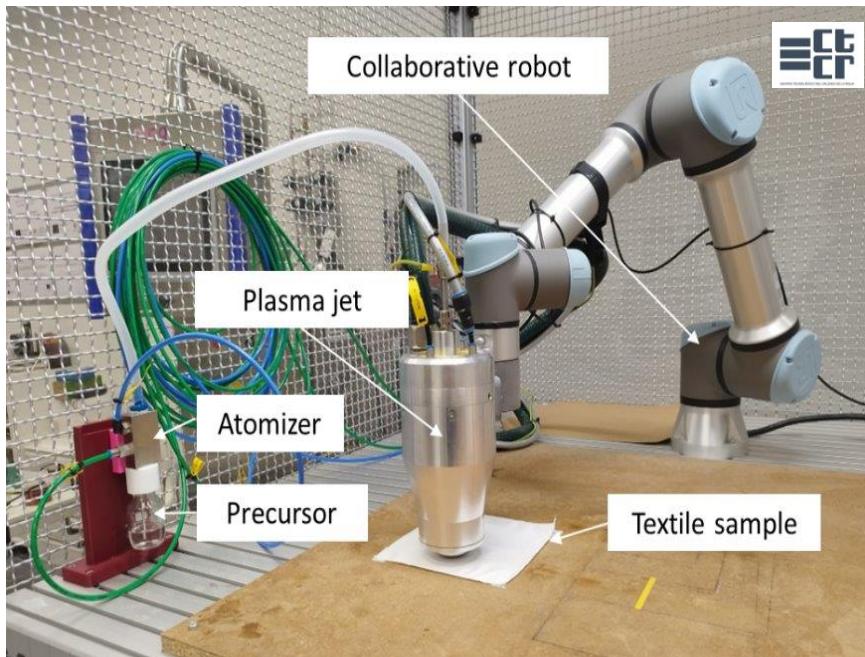




SSbD4CheM demonstrator: Bio-based self-cleaning / water repellent & antimicrobial coating for apparel textiles

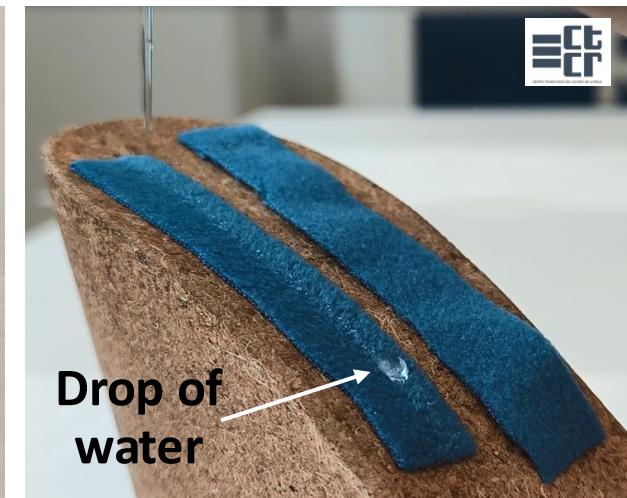
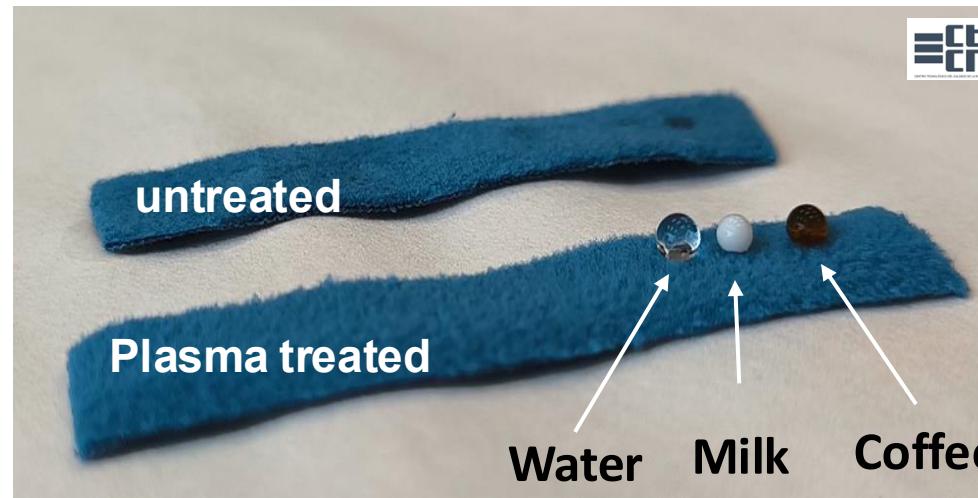
Atmospheric Plasma Polymerization and Deposition System Setup for Fabric Treatment



Antimicrobial behaviour: Plasma coating based on Citric Acid
Efficient against *Staphylococcus aureus*: Bacterial reduction $R = 99.99\%$
(adapted Standard ISO 20743 – Transfer method)

Hydrophobic behaviour: Plasma coating based on Soybean Oil
Repellency to Water and Common Liquids

Self-Cleaning Performance



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