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Cold atmospheric plasma deposition

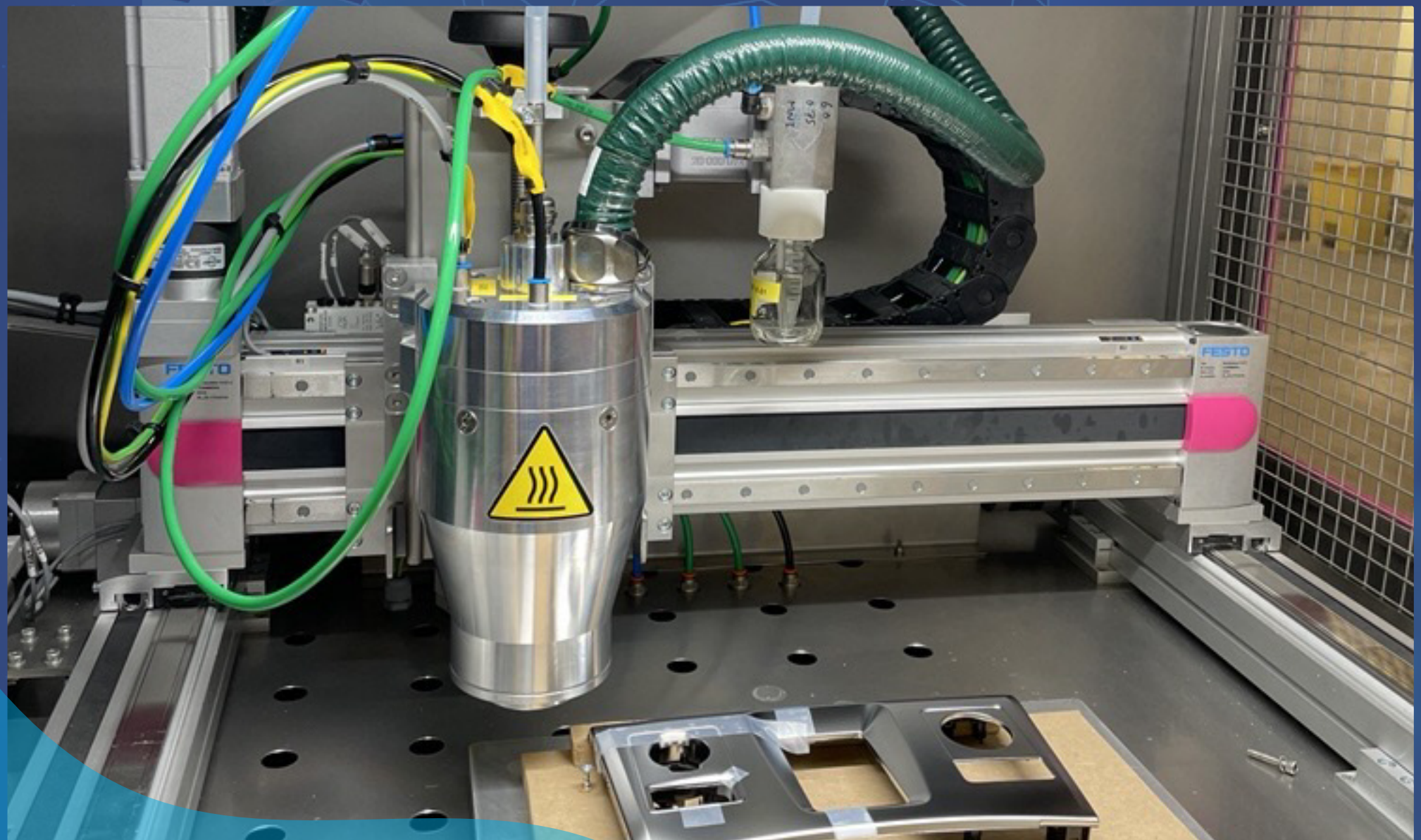
**Instant, efficient and
sustainable application of
antimicrobial coatings on
surfaces**

mpg.
molecular plasma group

Molecular Plasma Group

The Challenge

Traditional coating methods require complex formulation and a larger amount of active ingredients, increasing environmental impact.



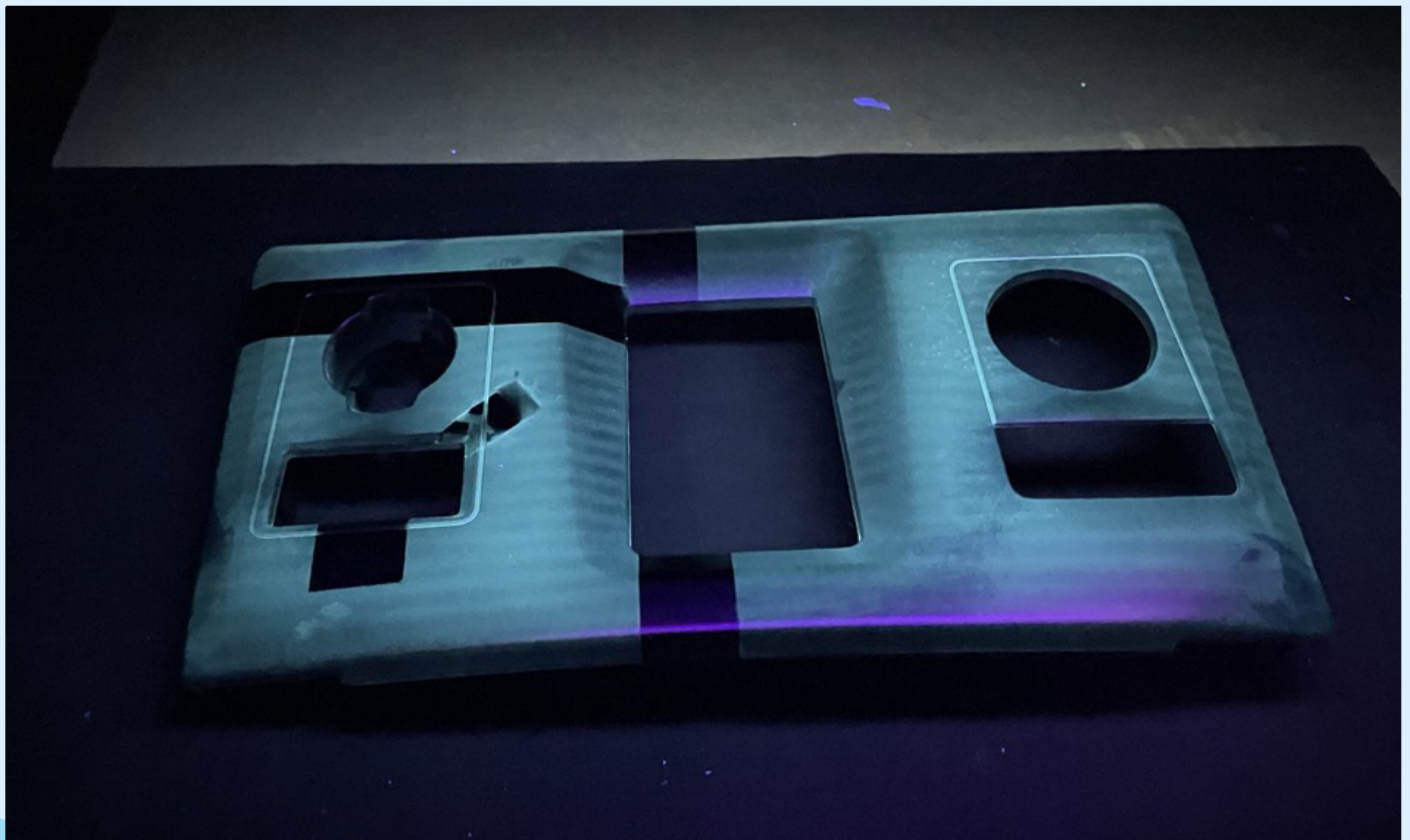
The Achievements

- Effective antimicrobial coating applied by cold atmospheric plasma
- In a sustainable way
- On 3D parts



Key Conclusions

Bio-based antimicrobials can achieve good performance at low concentrations. Parts can be treated without wetting and drying them.



Recommendations



Continue development to apply to suitable commercial parts.



Who is this result for?

- Manufacturers of products where an antimicrobial surface is desired.



Long-term Impact



Lower use of antimicrobial active ingredients.



Lower consumption of water and energy.



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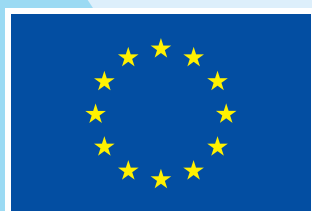
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