



RELIANCE

**Sustainable Device for SARS-CoV-2
Detection on Surface using Paper-based
Electrochemical Biosensor**

**Enabling sustainable
verification of the
effectiveness of surface
disinfection against
SARS-CoV-2 to improve public
health safety**



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The Challenge

After the COVID-19 pandemic, ensuring surface safety against pathogens remains a public health priority. Yet, verifying real disinfection effectiveness is still challenging.



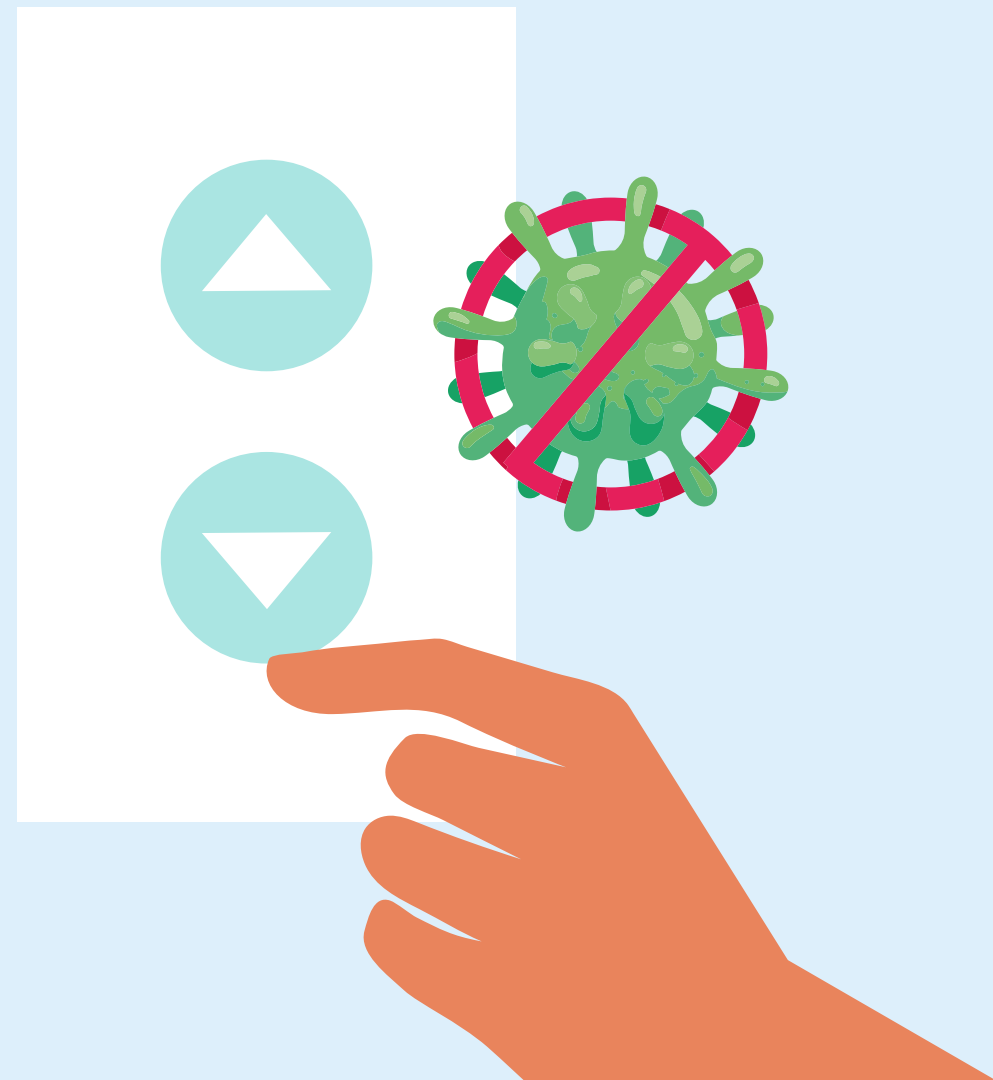
The Achievements

- A portable device to detect SARS-CoV-2 traces on surfaces.
- A rapid solution to confirm surface safety in real time.



Key Conclusions

- **Rapid surface testing improves confidence in hygiene and safety measures.**
- **On-site detection enables faster response to potential contamination risks.**
- **Natural antimicrobial treatments can be supported by measurable validation tools.**



Recommendations



Industry: Test and integrate portable surface detection devices in hygiene-critical settings such as hospitals, food processing, and public transport.



Researchers: Test the device across different surface types and environmental conditions



Policymakers: Create regulatory guidelines and validation protocols for rapid surface testing technologies to ensure safe public spaces.

Who is this result for?

- **Hospitals and clinics** to ensure safe surfaces for patients and staff
- **Schools, offices and public transport** to support safe shared spaces
- **Regulators and safety inspectors** to verify compliance with hygiene and health standards



Long-term Impact



The device promotes safer shared spaces and supports public health through sustainable and routine monitoring of antimicrobial treatments effectiveness.



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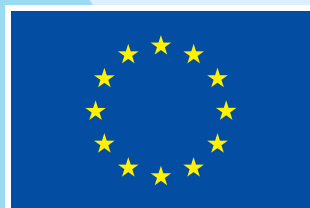
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