



# Safe Touch

## The Consortium



## What if surfaces could disinfect themselves?

SafeTouch is developing smart microfilms that eliminate pathogens on contact — no chemicals, no manual cleaning, in milliseconds.

**Read more inside**



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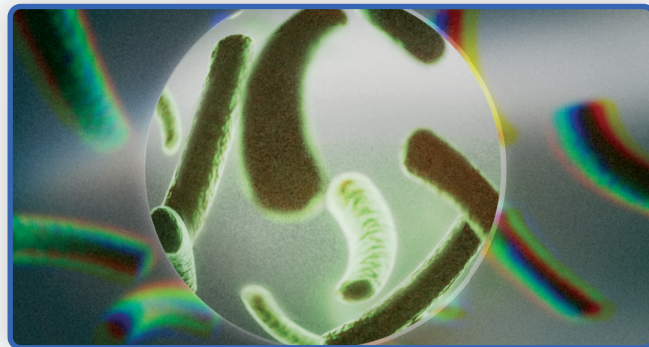
# The Problem

Healthcare-associated infections affect over 4 million patients in Europe every year, causing an estimated 40,000 deaths and costing healthcare systems €7 billion annually. Surfaces like door handles, bed rails, and light switches are key transmission points — and current disinfection methods can't keep up.



# The SafeTouch Solution

SafeTouch is developing **iSafeTouch (iST) microfilms** — ultra-thin, flexible surfaces that integrate microscale heaters and touch sensors.



# How It Works

1. **Touch** — Integrated sensors detect when a hand makes contact.
2. **Release** — When the hand lifts, the microfilm activates automatically.
3. **Decontaminate** — A rapid thermal pulse eliminates pathogens on the surface.

The surface is ready for the next person — clean, safe, and without any intervention.



# Why It Matters

## Instant pathogen elimination

Ultrafast thermal activation kills harmful microbes in milliseconds. No waiting. No human intervention required.

## Chemical-free and sustainable

No disinfectant chemicals, no water waste, minimal energy consumption. Environmental impact is assessed from day one through Life Cycle Assessment.