

The ZeroF project aims to develop safe and sustainable coating alternatives that remove harming per- and polyfluoroalkyl substances (PFAS) from the **packaging and upholstery industries.** The project, co-funded by the European Union and the Swiss State Secretariat for Education, Research and Innovation, is driven by the urgent need to address the **alarming persistence of PFAS in the environment and their negative impact on human health.**



Tackling "forever chemicals"

ZeroF will develop coating alternatives with limited water absorption and high oil resistance for packaging, as well as high water and oil repellency for textiles.

Bringing experts together

Coordinated by VTT, Finland's leading research centre, 12 research and industry partners from 9 countries will innovate during a 36-month project period as of 2023.

Developing a regulatory roadmap

A Safe-and-Sustainable-by-Design framework will guide material design, optimise coating formulations, assess safety and performance and evaluate economic and environmental impact.

12 partners, 9 countries, 0 PFAS





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Eliminating PFAS: The ZeroF Solution

ZeroF aims to prevent further pollution from PFAS by developing new coating technologies for the packaging and textile industries. The aim is to replace PFAS with renewable feedstocks and non-toxic compounds. The materials developed are expected to meet the required performance while eliminating the need for fluorochemicals.

In this process, a safe and sustainable design framework will be developed to guide material design. In addition, ZeroF solutions are expected to cost no more than 20% more than current alternatives and reduce environmental impact by more than 25%. To monitor this progress, several analyses will be carried out, including life cycle analysis, life cycle costs and an environmental footprint assessment.





Scan the QR code and stay up to date on the latest project news, progress and achievements.





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