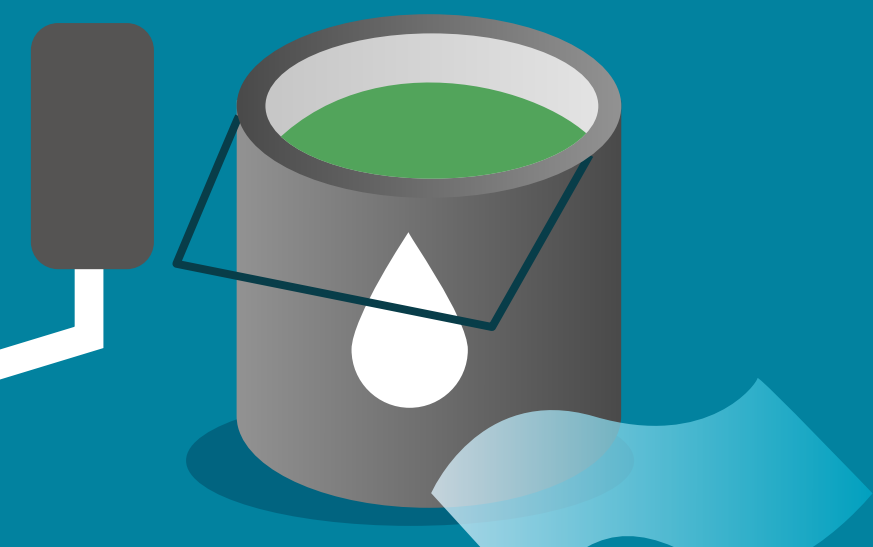


How do we develop more sustainable inks and coatings?

Reducing environmental impact by exploring new chemistries, materials and production processes

Thin films, coatings, and inks save energy, reflect heat, and enhance assets, contributing to for instance faster ships, brighter lighting and cleaner air.



They are present in many everyday products. However, the resilience of polymeric materials and additives raises environmental concerns.

Challenge

Traditional components of thin films, coatings and inks are fossil based. They raise environmental concerns. Achieving true circularity requires recycling them.

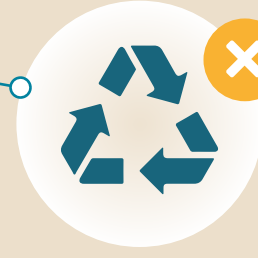


Traditional components

Contain components that are likely to be prohibited in the near future.



Have a high carbon footprint over the whole value chain.



Are currently not recycled.

Research purpose



Develop new eco-friendly and circular thin films, coatings, and inks.

Research renewable materials, recycling, reusing materials, and reducing waste.



Develop new sustainable technologies like recyclable coatings



Develop eco-friendly alternatives for common pigments



Educate young researchers



Create sustainable surfactants and additives with added functionality

Collaboration

Industrial partners

Knowledge on sustainable materials, processes and market demands

Government and policy

Offer insights into resource depletion, energy consumption, emissions and policy development

Young researchers

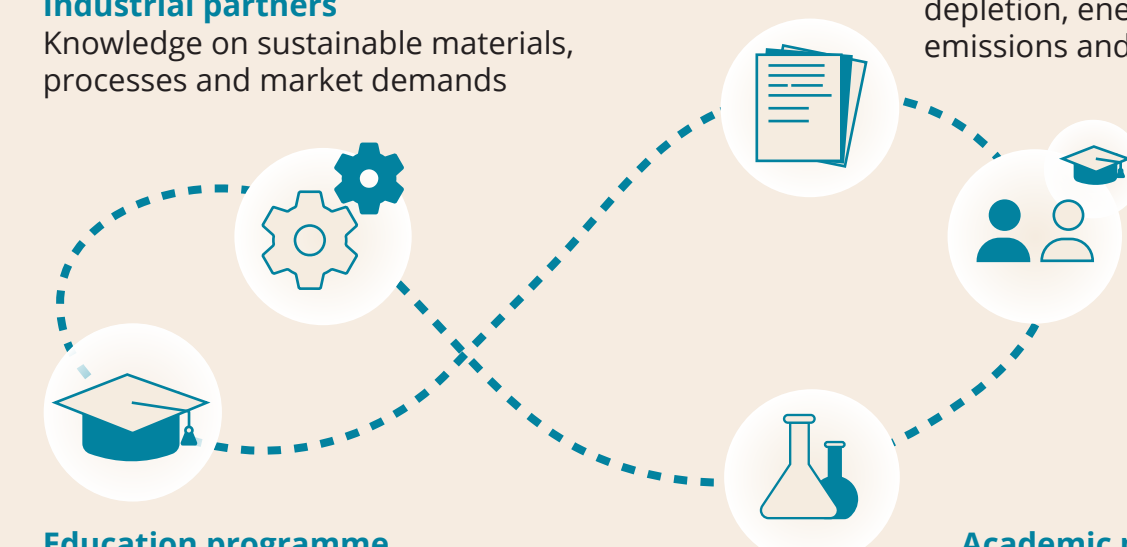
Fresh perspectives, innovative ideas

Academic partners

Driving innovation and scientific advancements

Education programme

Educate the future agents of change



Impact

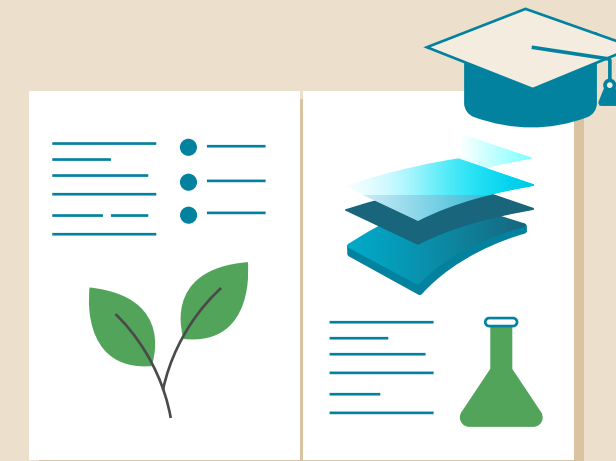
A more sustainable world

Less waste, lower CO2 footprint, less harmful chemicals and a cleaner environment.



Educate young researchers

Teach sustainable approaches towards new films, coatings and inks. Preparing our future scientists will help close the knowledge gap.



Boost Dutch industry by innovation of thin films, coatings and inks sector

Help position the Netherlands as a front runner in the industrial transition towards sustainability.



About this programme

This project received Perspectief funding in 2023. Perspectief promotes collaboration between researchers, businesses, and societal organisations, focusing on technological innovations with economic and societal impact.



Ministry of Economic Affairs and Climate Policy