How do we develop more sustainable inks and coatings?

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

**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.

**Collaboration**

- **Industrial partners**
  - Knowledge on sustainable materials, processes and market demands
- **Academic partners**
  - Driving innovation and scientific advancements
- **Education programme**
  - Educate the future agents of change
- **Government and policy**
  - Offer insights into resource depletion, energy consumption, emissions and policy development
- **Young researchers**
  - Fresh perspectives, innovative ideas
- **Educate young researchers**
  - Teach sustainable approaches towards new films, coatings and inks. Preparing our future scientists will help close the knowledge gap.

**Impact**

- **A more sustainable world**
  - Less waste, lower CO2 footprint, less harmful chemicals and a cleaner environment.
- **Boost Dutch industry by innovation of thin films, coatings and inks sector**
  - Help position the Netherlands as a frontrunner in the industrial transition towards sustainability.

**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.
- Create sustainable surfactants and additives with added functionality.
- 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.

**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.