

# Textile Manufacturing

# Aracne Textile Solutions: Eurecat Partnership with Industry



**A precedent in the textile predictive industry:** Aracne Textile Solutions introduces an **innovative production method for circular knitting machines**, featuring a quality control system that predicts and/or detects defects and reports them non-intrusively while the machine is running



**RTO – Industry collaboration:** Born from a partnership between Eurecat and CANMARTEX, this technology has been jointly developed for **commercialisation through a newly created spin-off**



**An Industry 4.0 innovation:** This advancement contributes to an increasingly sustainable industry, **improving production and reducing costs** at the same time. This system allows **saving water, colourants, gas, electricity, and raw materials**

## Textile Industry

# 3rd

Most polluting industry

20%

Global wastewater

10%

Global carbon emissions

92M

Tones of cloth waste

3\$

Trillions of annual waste

*"Nowadays, innovation is an obligation; we must innovate, we have no choice. Our clients ask us for different things to continue in this ever-changing market which is more demanding every day."*

**Enric Marti, CANMARTEX CEO**



# eurecat

# CANMARTEX

An RTO – Industry  
Collaboration

Leading to  
Spin-off Creation



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## Tech Development

## 3 Patents applications & Technology presentation

## 2024 Market Deployment

5  
Years



**TRL4:** Characterisation of the knitting inspection yarn by multispectral & development of platen wear sensor for knitting machine  
**TRL6:** Detection of defects in circular knitting needles by optical and photonic inspection



Eurecat innovation presented at ITMA (International Textile Machinery) 2023 in Milan

"[...] helps drive the industry's sustainability, boost production and cut costs while enhancing the innovative positioning of businesses."

Xavier Plantà, director of Eurecat's Industrial Technologies Division



- A contract signed in Colombia.
- Engaged in commercial activities and fairs in Germany, Portugal, Spain, Mexico, and Peru
- Patent application in Taiwan



EU  
& Worldwide  
Market  
Expansion

## Idea Start

## Collaboration advancements

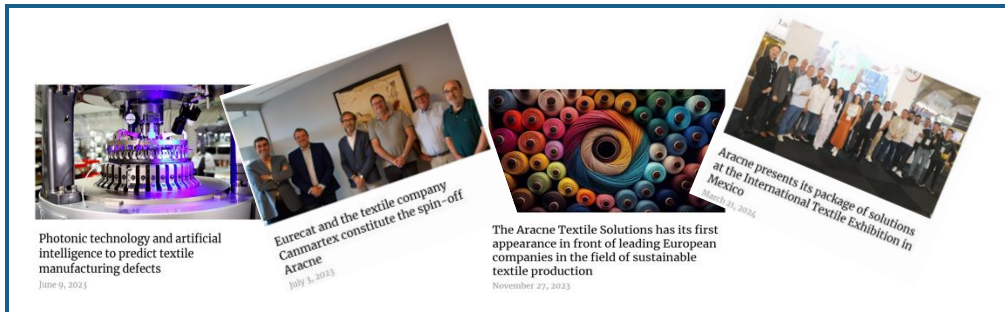
## Spin-off creation



**Start of the Spanish PRECATEX project** supported by Catalan for predictive quality control of the fabric.

Co-ownership and joint exploitation agreement for the **4 technological assets**

Eurecat and Canmartex founded **the spin-off ARACNE in June 2023** launching the first product modules on the market in the second half of 2023



## 4 Sustainable Development Goals supported

