

fashionsort.ai

fashionsort.ai automates textile sorting with AI – for a sustainable circular economy.

Project description

fashionsort.ai is developing an innovative automated sorting solution aimed at maximising efficiency and value creation within the textile sorting process. The planned solution involves a fundamental switch from manual to automated textile sorting and thus lays the groundwork for circular economy in the textile sector. Sorting capacity in Europe has thus far been minimal, with sorting processes for wearable clothing only conducted manually. The project aims to digitalise these processes using AI, a process which makes use of multiple technologies.

The fashionsort.ai system uses image recognition and RFID chip integration to automatically and efficiently record and track textiles. Discarded textiles are laid out on a conveyor belt, where a top-of-the-line scanner system is used for the recognition and analysis of the textiles. The system uses artificial intelligence (AI) for textile recognition and a software framework for sorting optimisation to sort each item into the most suitable category – whether for reuse or recycling.

Expected results and use

The used textile sorting sector in Europe needs to expand its today's capacity of 1.4 million tonnes annually up to five to seven million tonnes, if all textiles collected in Europe are to also be sorted in the internal market. The technologies that need to be developed, which are to be brought to market by spinning off a startup, offer enormous potential to support this change long term.

By recognising multiple properties in a way that goes beyond the limits of manual recognition, this solution will be able to allocate products to existing and new branches of the second-hand industry. The technology is targeted towards second-hand retailers, repair services, re-commerce, upcycling and recycling companies, and enables these to maximise value across different sectors. fashionsort.ai facilitates efficient sorting and also supports European and global sustainability targets by upholding EU regulations, promoting a greener future and improving global competitiveness.

FIELD

Automation in the textile industry

PROJECT PARTICIPANTS

- 1. Circular.fashion UG*
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- 3. Remondis Recycling GmbH & Co. KG*

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TERM

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HOMEPAGE

[*www.fashionsort.ai*](http://www.fashionsort.ai)

MORE INFO

