

DAKOFA textile network study trip to Holland



DAKOFA textile network study trip to Holland

Arranged by DAKOFA and Rijkswaterstaat (the Dutch EPA)

- **Texperium** – technologies for sorting, shredding and spinning
- **Frankenhuis** – produce fibres for spinning mills and nonwoven industry
- **Saxion University** (SaXcell) – research & product development
- **Wieland** (Fibersort) – sorting
- Zaanstad Municipality & Amsterdam Municipality

A study trip to Holland - Texperium

Why do we need recycling in The Netherlands?

In the Netherlands we have

- an Annual consumption of 400,000 tons of textiles
- <80,000 tonnes (<20%) is collected.
- 40,000 tons recycled and re-wearable clothing.
- 40,000 tons is recycled, mostly abroad, to cloths, blankets, carpet underlay, insulation.
- 320,000 tonnes landfilled or incinerated.

New technologies make more reusability possible.



Towels and workwear for the Dutch Armed Forces
Recycling of old KLM uniforms

A study trip to Holland - Frankenhuis

What is our mission?

1. Find new product-market-combinations
2. Working together with partners

With creativity and dedication we want to bring Frankenhuis to the next level. To be able to produce the highest quality of fibres for spinning mills and the nonwoven industry, we will innovate our production lines and adjust our procedures to the highest standards. To come to new products we have to work together!

Our values:

- An **honest** and friendly approach to our business partners
- **Open**, direct and loyal
- A **clean** and **safe** working environment
- Creative and surprisingly clear, unusual, **inspiring** and exceeding expectations
- ... and above all a **fun** place to work!



A study trip to Holland - Saxion University

Solution

Collectors/municipalities/government

Sorters/Fiberizing companies

Mechanical recycling

Chemical recycling

take initiative,
collaborate, be
innovative

Make
money



The SaXcell-process, an economic and sustainable process to:

- Transfer domestic and industrial waste in high quality regenerated cellulose fibers
- Large scale transfer from waste to valuable raw materials
- Produce a cellulose fiber (SaXcell) with outstanding properties compared to existing products

SAXCELL®

A study trip to Holland - Wieland



A study trip to Holland - Fibersort



Present maximum capacity: 1 pcs/second
= 27.000 pcs/7½ hrs. shift = approx. 10 tons/shift
This equals a capacity of 250 tons original/week

(on the condition of 20% recycling and 1 shift/day in 5 days)

<https://www.youtube.com/watch?v=Ye9Q-jzSEuQ>

DAKOFA textile network study trip to Holland

Main conclusions

- There is not yet a clear / main direction
- Secure your sales market !