

NANOLLOSE CREATES THE FIRST WEARABLE GARMENT MADE FROM NULLARBOR™ FIBRE

Highlights

- Nanollose completes the transformation of waste to wearable garment
- Nullarbor fibre moves closer to becoming a sustainable raw material alternative

Nanollose Limited (ASX:NC6) (“Nanollose” or the “Company”) is pleased to announce it has created the world’s first wearable garment using the Company’s eco-friendly Tree-Free Rayon fibre (Nullarbor™), sourced from sustainable coconut waste.

The knitted sweater is the first of its kind and marks a breakthrough for an industry that is urgently seeking sustainable alternatives to clothing made from traditional rayon and cotton, both of which cause significant environmental issues.



World's first item of clothing made from Tree-Free Nullarbor Rayon fibre

Nanollose Managing Director Alfie Germano said; “We have successfully taken waste and created clothing, and we have done it following industrial protocol. Our fibre was spun into yarn and made into fabric, then manufactured into this garment using standard industrial equipment. It validates our entire process.”

Similar to the test garment created in October, this full sized example was manufactured with the latest industrial 3D sweater-knit technology, with the fibre performing extremely well and successfully withstanding the industrial manufacturing process.



150 million trees are cut down each year, then chipped and treated with hazardous chemicals in the pulping process to extract the raw material used to make Rayon fibres for clothing. By contrast, Nanollose's Nullarbor fibre is made from waste without harming a single tree.

“We didn't have to cut down any trees to create this sweater, and we have now demonstrated that our Tree-Free Rayon fibre can be used in the same way as other commonly-used fibres to make clothing and textiles, without the hefty environmental footprint.” Mr Germano said.

Nanollose's innovative waste-to-wearable-garment process begins in a facility where microbes naturally ferment liquid waste products from food industries into cellulose, a cotton-like raw material that is then transformed into its Nullarbor fibre.

BACTERIA FEEDING
ON COCONUT WASTE

01


 DRIED PRODUCT CREATES
TREE-FREE CELLULOSE

02


 nullarbor
FIBRE

03


 nullarbor
YARN

04


 nullarbor
FABRIC

05


 nullarbor
GARMENT

06


The six steps from taking waste and creating an item of clothing

To ensure Nanollose can supply future partners with significant qualities of fibre, the Company is developing a supply chain within an ecosystem around waste from the Indonesian coconut industry (along with waste streams from other industries), and aims to increase fibre production over the next 3-6 months.

“We are a technology company that has also become a steward in facilitating a new raw material supply chain. The goal is to work with key partners who will simply take waste (instead of trees), produce our Nullarbor fibre, and seamlessly integrate it into their clothing supply chain with no retrofitting to existing machinery or processes required” Mr Germano said.

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For further information, please contact:

Alfie Germano

CEO & Managing Director

Email: alfie.germano@nanollose.com

Phone: 0411 244 477

Michael Wills

Media and Investor Relations

Email: michael.wills@nanollose.com

Phone: 0468 385 208

ABOUT NANOLLOSE

Nanollose Limited (ASX: NC6) is an innovative Australian company that uses an eco-friendly fermentation process to grow fibres that could become a sustainable alternative to conventional plant-derived cellulose fibres. The Company's process, which uses streams from various large-scale industries like sugar, wine and food, has the ability to produce 'Plant-Free' Cellulose. Cellulose is the hidden polymer building block most consumers know nothing about, but forms a huge part of items used in their everyday life such as clothing, paper and hygiene products.