

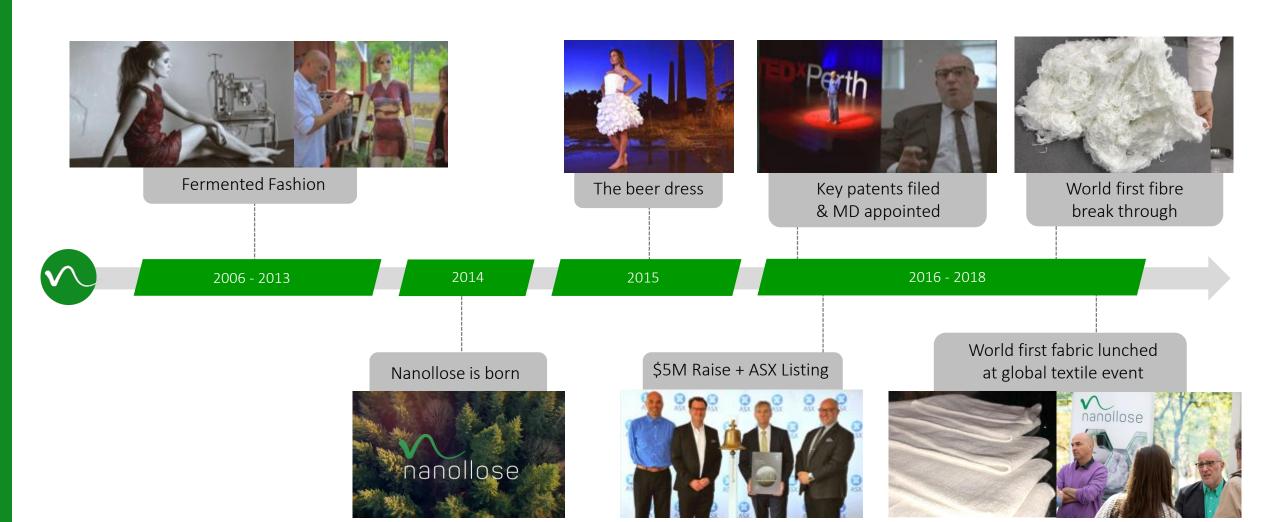


JULY 2018



MILESTONES & ACHIEVEMENTS

https://www.youtube.com/watch?v=gfVPgMJY5vo



INVESTMENT HIGHLIGHTS

EXPERIENCED TEAM:

Unique scalable process which transforms **PLANT FREE microbial cellulose PROVEN TECHNOLOGY:** into eco-friendly fibres for textiles and other industrial applications HIGHLY DIFFERENTIATED PRODUCT: **World first Plant-Free Rayon fibre** set to become an alternative to rayon and cotton fibres Initially targeting the US\$500 billion textile industry with immediate focus on the LARGE ADDRESSABLE MARKETS: **US\$16 billion rayon market.** R&D program underway to penetrate additional markets Brands, retailers and manufactures are **urgently seeking sustainable alternatives STRONG INTERNATIONAL DRIVERS:** to rayon and cotton fibers, both of which cause significant environmental issues No trees or plants are impacted no further chemical production needed for Nanollose **COMPETITIVE ADVANTAGE:** fibres. Easily retrofitted into current textile and clothing production methods

Managing Director Alfie Germano has over **30 years experience** in large scale textile product

development, and has held VP and director positions at GAP Inc, VF Corporation, & Liz Claiborne.

COMPANY STRATEGY

SUPPLY

Develop the Microbial Cellulose 'MC' supply chain

- Immediate developmental supply secured: MOU with Indonesian coconut industry partner (announced April 2018)
- Utilize supplier's existing infrastructure
- Other sources of liquid organic waste as feedstock (e.g. beer, sugar)

PROCESS

Refine Nanollose Technology

- Nanollose Technology converts waste naturally by bacteria – (Acetobacter xylinum) to produce microbial cellulose (MC)
- Achieved world first sustainable rayon fibre (Nullarbor TM) at pilot scale.
- Refine and scale further

DEMAND

Textile production & commercial partners

- Initial focus on textile industry
 - Limited eco-friendly options to date
 - Current textile procurement methods are environmentally challenged
- Minimal retrofitting costs (if any) for textile and apparel partners
- Pilot scale production achieved May 2018: Significant interest from major internationals
- Sign up revenue generating commercial partners











WHAT IS CELLULOSE?

Cellulose is one of the most common raw material building blocks



Cellulose is currently plant-based







Current Rayon fibres

- Well established fibre made from cellulose **derived from trees**
- Rayon is **used to make everything** from clothing to tyres
- High growth market valued at **US\$10b in 2014** growing to US\$16.3b in 2019/20
- Significant environmental concerns
- Consumers and industry are **demanding alternatives**







Nanollose fibres

- Uses liquid waste to create microbial cellulose (MC)
- Unique technology converts MC into eco-friendly fibres
- World first sustainable and plant-free cellulose rayon fibre (Nullarbor TM) achieved
 - Initially targeting the **US\$500bn textile industry**
 - Other industries: Hygiene, food, horticulture, paper, plastics & polymers, medical

TEXTILE MARKET DYNAMICS

Consumers and the industry are seeking, demanding feasible & sustainable, longterm alternatives

adidas

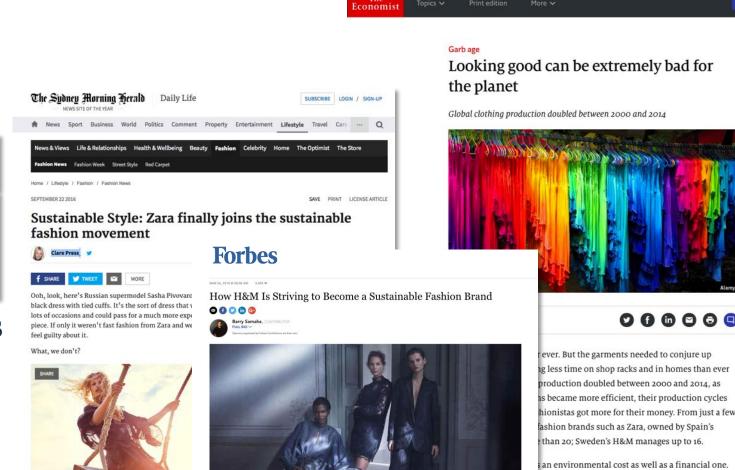
Fashion for Good and adidas partner to accelerate and scale sustainable innovation in the apparel industry

THE H&M GROUP RELEASES NEW GOALS IN SUSTAINABILITY REPORT 2016

The H&M group Sustainability Report 2016 is published today, outlining several new goals including a commitment to use 100% recycled or other sustainably sourced materials by 2030 and to become climate positive throughout its entire value chain by 2040.

4 APR, 2017

Millennials are making it luxe to be more ethical and environmentally aware. They're on pace to hit 45% of total spend by 2025.



As one of the most visible fashion retailers in the world, with vast resources at its disposal, the H&M Group (H&M, COS, & Other Stories, Weekday and Monki) has the capability to truly sway commerce. The Swedish firm, which was founded in 1947, grew immensely in the '90s by offering runway-ready pieces at bargain price points, altering how clothes were purchased by the masses. Indeed, along with Inditex (which owns Zara), Gap Inc. and others, the H&M Group—particularly H&M—made looking stylish ccessible to those couldn't afford the astronomical sums presented by designer labels.

nanollose 6

ired on cotton fields to the washes in which denim of fabric generates 23kg of greenhouse gases on timates by McKinsey, a consultancy. Because

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GROW CYCLE AND ISSUES

tps://www.youtube.com/watch?v=BiVdOspI9PE

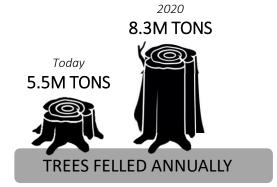
PETROLEUM

180 million years to form



8 months to grow

WOODPULP 18 years to grow





70b barrels PA to make synthetic fabrics



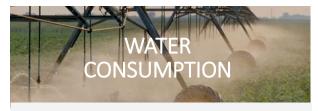
33 million tonnes annually



40% of all industrial wood harvest



Toxic process



8,000L water to make 1 pair of jeans



Toxic process

NANOLLOSE FIBRES

18 Days

- + FASTER GROW CYCLE
- + SUSTAINABLE
- + WASTE REMEDIATION AND REPURPOSING

https://www.youtube.com/watch?v=P3bXclXWOTw

RAYON PROCESS COMPARISON





Trees are cut down, barked and chipped



Wood chips are treated with hazardous chemicals using energy and creating hazardous waste



Cellulose converted to rayon by viscose process

RAYON FIBRE



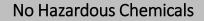








Non-hazardous bacteria, converts organic waste into microbial cellulose





Nanollose technology converts Plant-Free Cellulose into rayon

RAYON FIBRE

Nanollose advantages **NO DEFORESTATION**

NO PESTICIDES

NO KRAFT PULPING PROCESS

LOW WATER CONSUMPTION

LOW ENERGY USE

LOW USE OF LAND

THE NANOLLOSE PROCESS

Actual product produced in an industrial setting









Fermentation with acetobacter xylinum to produce MC



Spinning process using standard industrial equipment



Raw MC

World first plant-free viscose rayon fibre: Launched at Planet Textile Summit in Vancouver



Fabric created

NEAR-TERM MILESTONES

SEPTEMBER 2018 JUNE 2019 DECEMBER 2018 MARCH 2019 Supply Scale up Indonesian MC supply Seek to convert MOUs to binding agreements Identify additional feedstock from beer, sugar, other industry in Australia and Asia **Process** Nanollose to continue to refine process and scale up Nullarbor fibre production Further R&D e.g. new fibre development Demand MOUs sought with partners: Top fashion designers, global athleisure, sportswear labels and high street fashion Seek to convert MOUs to binding agreements **Commercial pilot**

LONGER TERM STRATEY

- Assist in the procurement of MC feedstock
- Refine-Produce Nullarbor fibre with industry partners
- Commercial agreements
 - Use of fibre (licensing)
 - Textiles and fabric production
- Revenue opportunity to remove, reduce and reuse waste
- Other industries



HYGIENE



FOOD



HORTICULTURE



PAPER, PLASTICS & POLYMERS



MEDICAL

CONTACT



ALFIE GERMANO

MD - Nanollose Ltd M: 0411 244 477 alfie.germano@nanollose.com

www.nanollose.com

MICHAEL WILLS

Investor Engagement M: 0468 308 208 michael.wills@nanollose.com