



SCALABLE TECHNOLOGY TO CREATE FIBRES AND FABRICS WITH MINIMAL ENVIRONMENTAL IMPACT

Investor Presentation - January 2020

THE TEXTILE INDUSTRY'S BEST KEPT SECRET

150 million trees are chopped down annually to make cellulose based fibres for textiles and that number is **set to double in the next decade.**

It's unsustainable;

- ◆ Commercially
- ◆ Environmentally
- ◆ Socially

CURRENT FIBRES ARE FACING ENVIRONMENTAL & COMMERCIAL PRESSURES

POLYESTER - NYLON - ACRYLIC

Non-biodegradable and made from non-renewable petroleum resources, with production processes that are energy intensive, toxic and difficult to recycle

COTTON

Requires large amounts of pesticides, water and land to grow. It is also a seasonal crop

RAYON

Wood-pulping process is energy intensive, polluting and results in deforestation. Rayon is a high growth market valued at US\$16.6B in 2019

THE NANOLLOSE SOLUTION...

A WORLD FIRST TECHNOLOGY THAT TURNS
LIQUID WASTE INTO RAYON FIBRES WITH
MINIMAL ENVIRONMENTAL IMPACT



COST-EFFECTIVE, SCALABLE & ECO-FRIENDLY PROCESS





FERMENTATION OF
ORGANIC WASTE

TREE-FREE
CELLULOSE

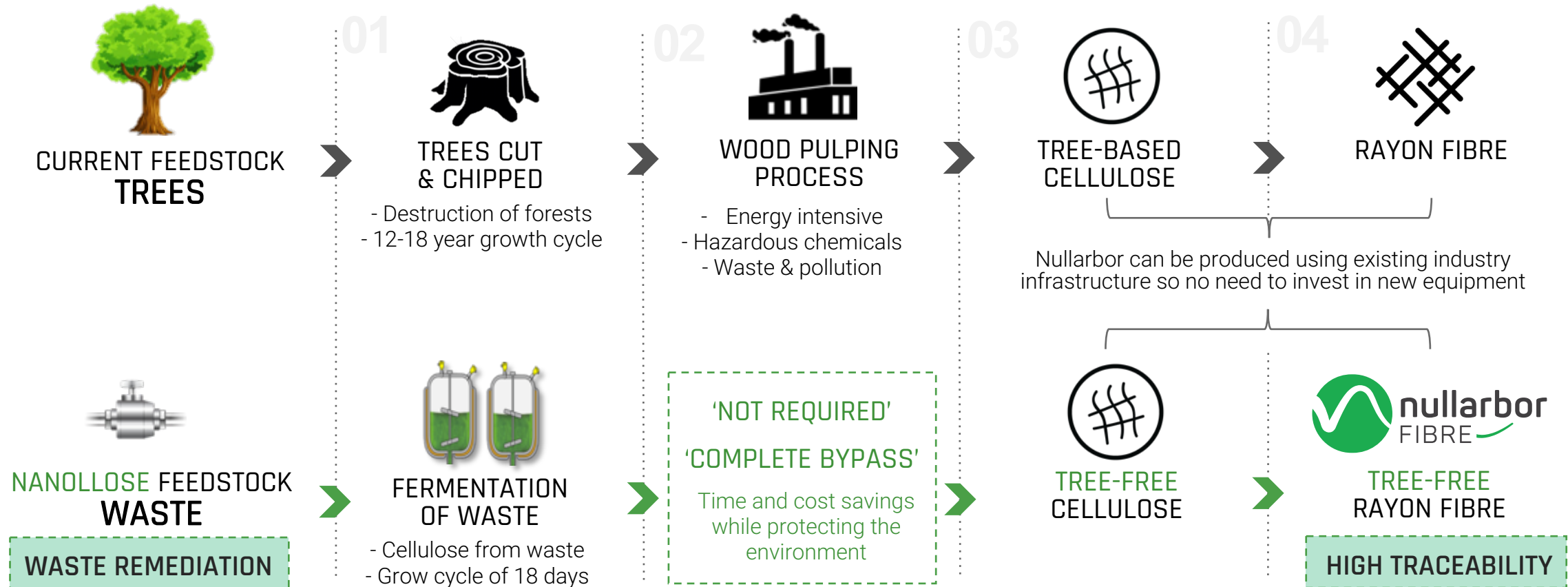
FIBRE & YARN

CLOTHING

TECHNOLOGY AND PROCESS **VALIDATED**

The first wearable garment using nullarbor™ Tree-Free rayon was manufactured using standard industrial equipment, **validating Nanollose's waste-to-wear technology.**

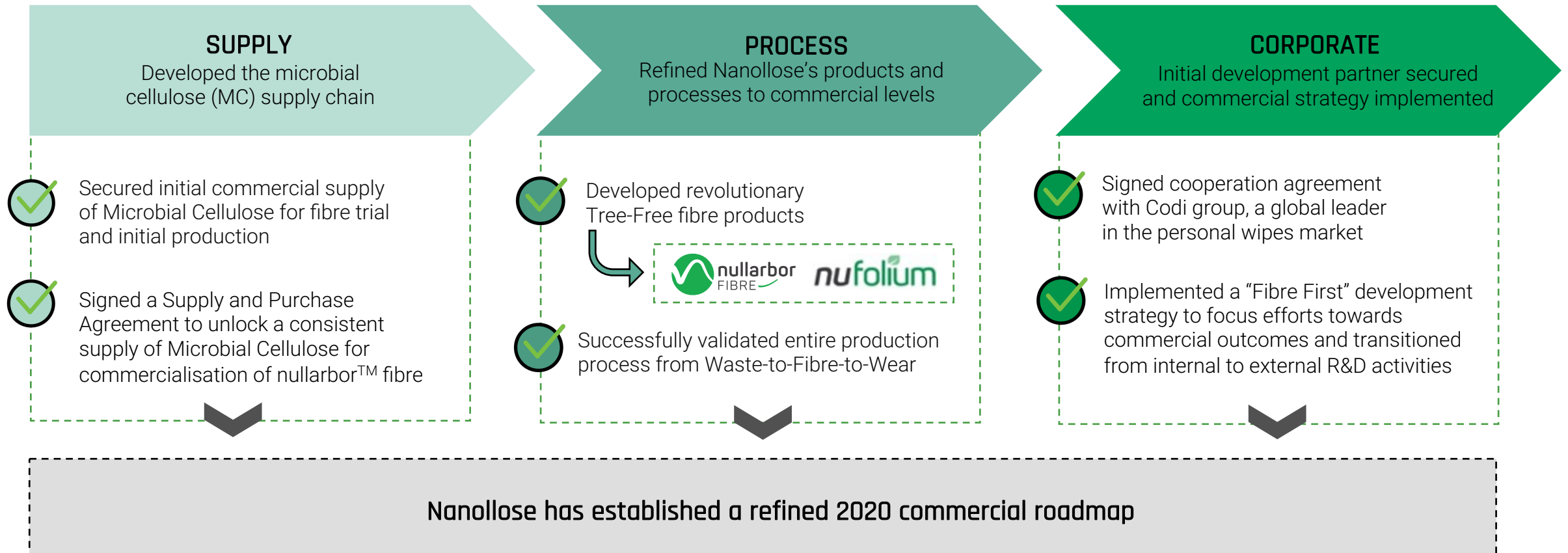
ADVANTAGES OF OUR TREE-FREE RAYON



NO DEFORESTATION - NO PULPING PROCESS - LOW ENERGY USE - NO PESTICIDES - LOW WATER USE - LOW USE OF LAND

2019 HIGHLIGHTS & OUTLOOK FOR 2020

2019 ACHIEVEMENTS

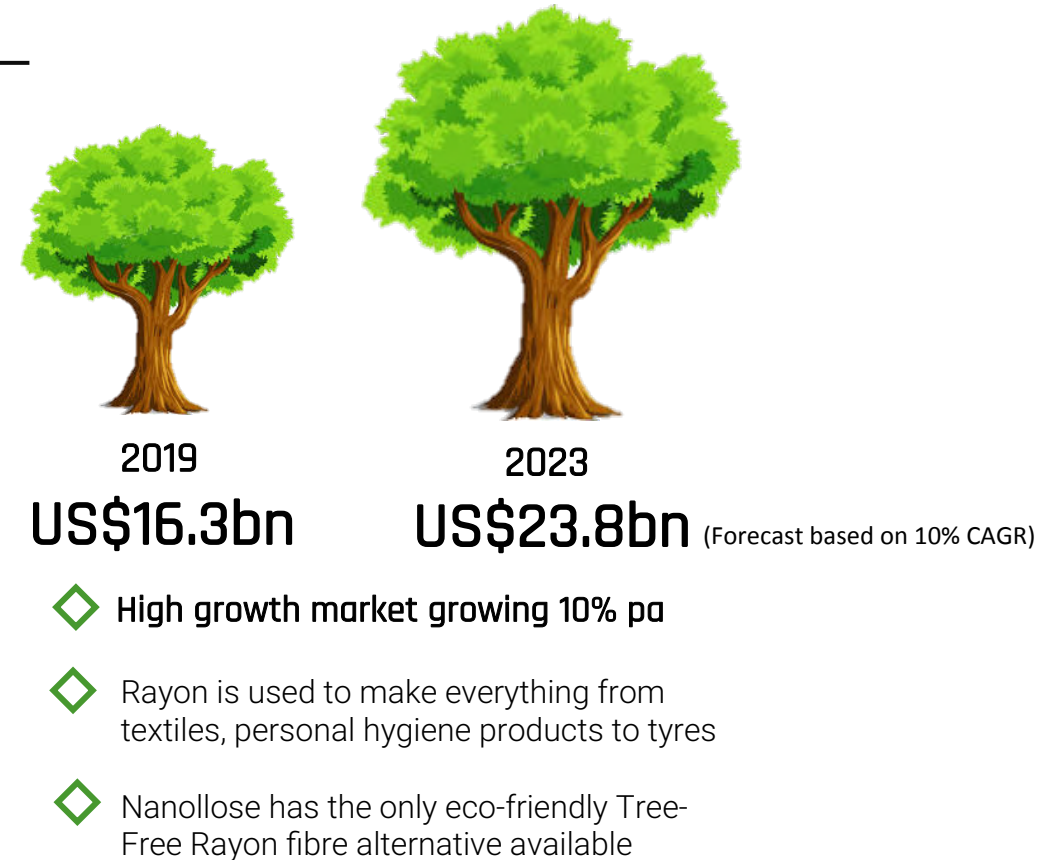
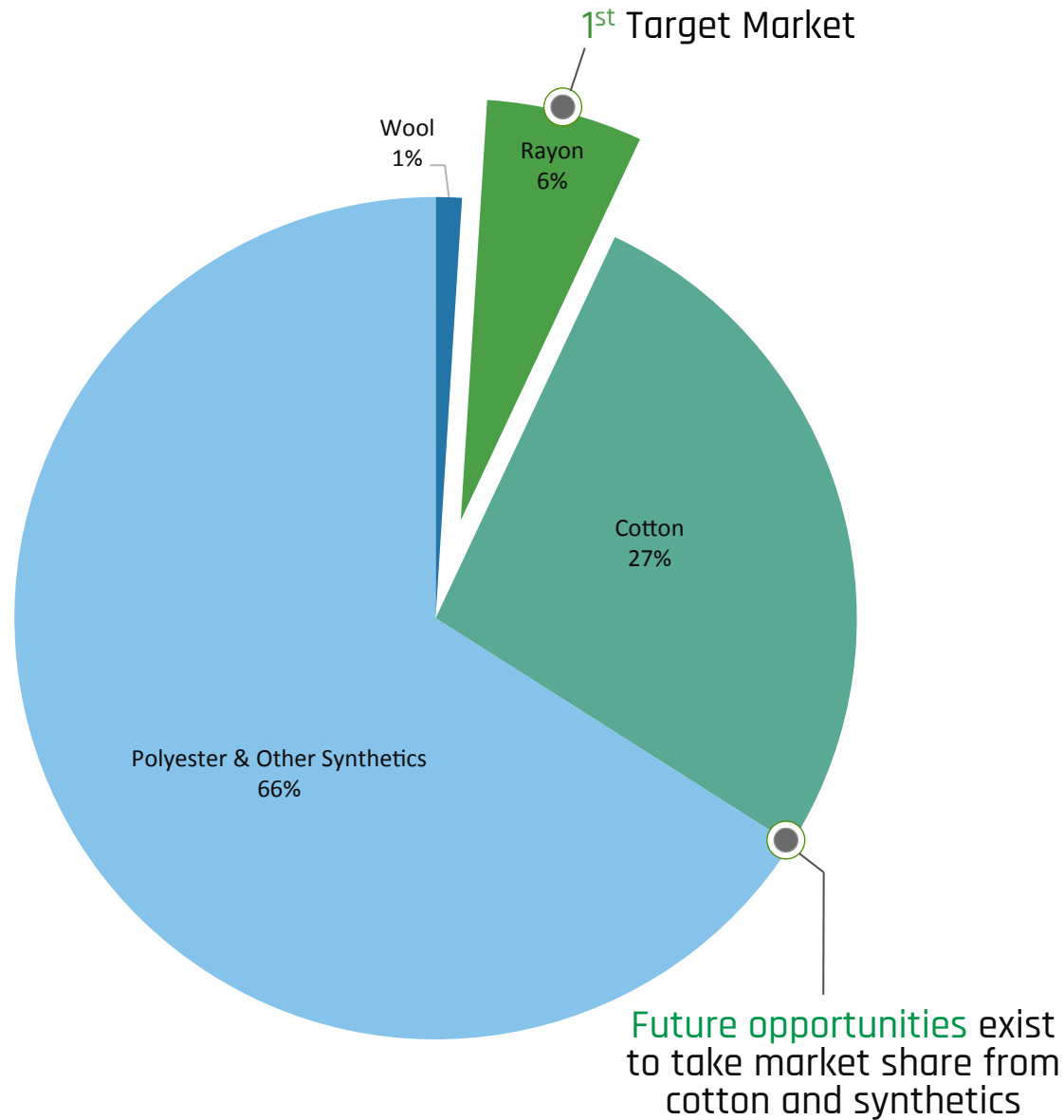


OUR **BREAKTHROUGH** RAYON PRODUCTS

- ◇ Rayon is a well established fibre currently derived from trees
- ◇ Nanollose has developed three revolutionary **TREE-FREE Rayon products**
- ◇ All nullarbor™ products are **100% biodegradable**
- ◇ Proven ability to withstand current industrial manufacturing
- ◇ Easily retrofitted into today's textile and clothing production processes
- ◇ Nanollose also developed **nufolium™** for non-woven fibre applications

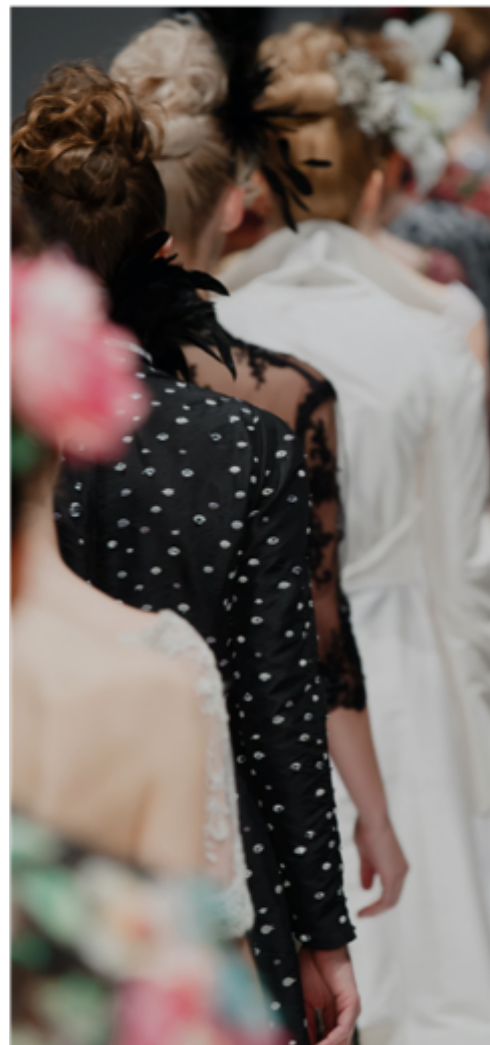


FIRST MOVER ADVANTAGE IN RAYON MARKET



STRONG INTERNATIONAL INTEREST

- ◆ Brands, retailers and manufacturers **urgently seek sustainable alternatives** to rayon and cotton
- ◆ Nanollose has **significant interest** from major international clothing brands and super users of cellulose based fibres
- ◆ The company is **currently in discussions** with a number of these groups and plans to work towards manufacturing / collaboration agreements in 2020
- ◆ The company is also working with Codi Group to establish a long-term commercialisation path for Nanollose's Non-Woven fibre for **applications in personal wipes**





THE SHIFT HAS ALREADY BEGUN

- **Thirty fashion companies**, including Chanel, Adidas and H&M have joined an initiative spearheaded by Kering Chief François-Henri Pinault, which focused on climate, biodiversity and oceans
- Zara has announced that all of its collections will be made from **100% sustainable fabrics before 2025**
- Prada signed a £42.9 million loan with banking group Crédit Agricole, with repayment terms conditional to meeting key **targets around the sustainability** of its products and operations
- Nike unveiled a comprehensive **"Move to Zero"** sustainability plan, building upon existing efforts to fight climate change

PEER LANDSCAPE

OUR CELLULOSE PEERS



Developing cellulose fibre without the use of current dissolution chemicals needed for wood base



Developing recycling tech that dissolves used cotton and rayon fibers into a pulp then into textile fibre



Orange Fiber manufactures fibre from citrus waste



Developing recycling and separation tech that turns post consumer textiles-paper and agricultural waste to new fibre



WASTE-TO-FIBRE TECHNOLOGIES

Technology that turns organic liquid waste from food and beverage industries into Microbial Cellulose (MC) that bypasses all chemical extractions



Technology that regenerates MC into fibre using current industry infrastructure that bypasses significant investment or retro fitting



SUPER LAB TECH



RECYCLE TECH



REPURPOSE TECH



SYNTHETIC TECH



ADVANCING FROM BOTH SIDES

NANOLLOSE IS THE ONLY COMPANY DEVELOPING FIBRE FROM MULTIPLE WASTE STREAMS / SOURCES

DEVELOPMENT & COMMERCIAL PARTNERS



CLOTHING & TEXTILES



PERSONAL & HYGIENE WIPES

ORGANISATION

Nanollose is in discussions with a number of industrial fibre manufacturing companies to potentially solidify a cooperation agreement in the near-term

Nanollose has signed a cooperation agreement with Codi Group, a global leader in the development, manufacturing and marketing of high-quality personal care wipes

AGREEMENT

These agreements could provide Nanollose with access to world-class expertise/facilities to further develop and commercialise nullarbor™

Both parties are working exclusively with each other for the development of Plant-Free rayon wipes using Nanollose fibre for non-woven applications

NANOLLOSE FIBRE

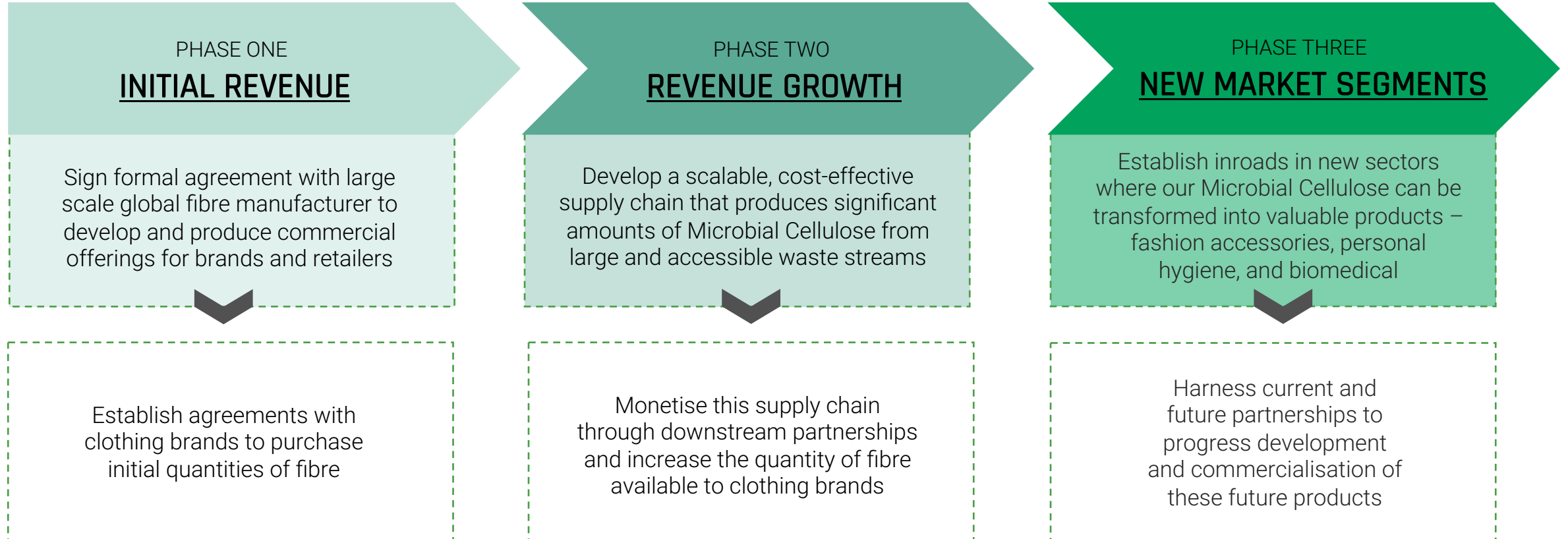


MARKET SIZE

Rayon fibre market estimated at US\$16.3 Billion in 2019 and growing to an estimated US\$23.8 billion in 2023

The wipes market estimated to be US\$13.2b in 2018 and growing to US\$17.3b by 2023

COMMERCIALISATION STRATEGY



PATHWAY TO INITIAL REVENUE



- ◇ **Produce significant amounts Microbial Cellulose** from Nanollose's Indonesian and Chinese based partners
- ◇ Provide this raw material to an industrial partner to **convert into commercial fibres**



- ◇ **Sign a JV-Partnership** with a globally recognised industrial fibre marker to;
 - Enhance technology optimisation
 - Broaden product development
 - Refine manufacturing costs
 - Accelerate commercialisation
- ◇ Commence nullarbor™ fibre offerings, sales and marketing to brands and super users

TECHNOLOGY TRANSFER LICENSE:

LICENSE OF IP
LICENSE OF PROCESS
LICENSE OF TRADEMARKS



- ◇ **Sign exclusive supply agreements** with globally renowned designer and high tier apparel Brands
- ◇ Sign exclusive development agreements with **globally renowned fabric mills**
- ◇ Commence nullarbor™ fibre offerings to other high value Textile sectors

POTENTIAL REVENUE STREAMS

PURCHASE OF NANOLLOSE FIBRE
LICENSE OF TRADEMARKS
PRODUCT COLLABORATIONS
PROFIT SHARE ON PRODUCT

MILESTONES FOR INITIAL REVENUE

**Q1
2020**

SIGN MANUFACTURING COLLABORATION

- Sign manufacturing collaboration with an industrial fibre maker
- Commence development trials with current raw material inventory - 500 kgs.

INCREASE DELIVERIES OF MC TO MANUFACTURING PARTNER

- Produce 1-2 Tonnes of MC raw material for initial commercialisation trials
- Begin steps to produce and deliver 2-5 tonnes per month for continued commercialisation

**Q2
2020**

SECURE DEVELOPMENT AGREEMENTS WITH CLOTHING BRANDS

- Sign supply agreements with 2 to 4 well-known global clothing brands
- Targeting high end European designers and outdoor/active wear brands

COMMENCE EARLY-STAGE PHASE TWO REVENUE PROGRAM

- Formalise a New Forest Partner to accelerate MC supply and scale
- Begin initial design of a plant and investigate future funding options

MILESTONES FOR INITIAL REVENUE

**Q3
2020**

COMMERCIAL PRODUCTION TRIALS

- Deliver larger commercial amounts of MC to fibre manufacturer for production trials
- Optimise and produce first commercial amounts of nullarbor™ fibre for commercial offerings
- Commence product trials with Brands from fibre produced in Q1-2
- Commence product trials in Non-Woven sector

**Q4
2020**

FIRST FIBRE PURCHASE ORDER FROM BRANDS

- Initial fibre purchase orders from brands could see Nanollose achieve first revenue
- Commence potential in-store product offerings with Brands and possible B2C E-Tail
- Further potential for revenues from royalties on clothing items sold

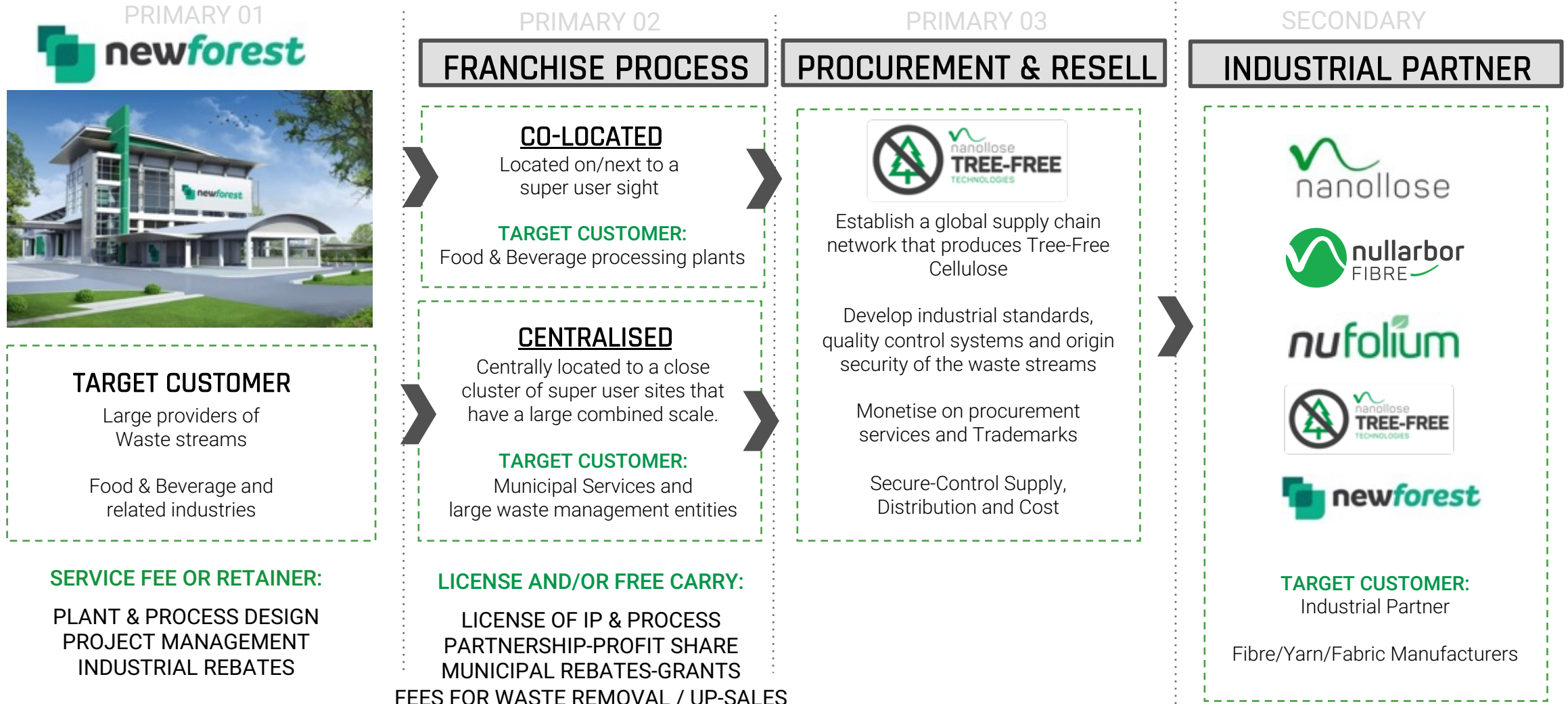
REVENUE GROWTH



- ◇ Nanollose is currently working with various entities to design a highly automated facility that will be able to **produce MC on industrial scale**
- ◇ This will allow the company to potentially produce quantities of fibre suitable for **engaging super users - 10+ tons per month**
- ◇ Nanollose has trademarked the name newforest for these facilities
- ◇ Nanollose intends to partner (JV) with large producers of waste streams to develop this new ecosystem as an alternative to wood pulp
- ◇ Benefits include the reduction of costs associated with producing Microbial Cellulose and increasing supply



SUPPLY CHAIN REVENUE



NEW MARKET SEGMENTS



PERSONAL HYGIENE

Work with Codi Group to develop a Non-Woven product roll out and a go-to-market strategy that includes internal innovation on specific product types and messaging



DIRECT TO CONSUMER

Establish a tight and simple product range using nullarbor™ fibre/yarn to be marketed direct to customer (B2C) using E-Tailer channels such as Etsy.com or via partner websites



ADDITIONAL SECTORS

Establish inroads in new sectors where our Microbial Cellulose can be transformed into valuable products

Commence the development in other related product areas – **Acetate and Cellophane (alternative to plastics)**

Horticultural Growing mediums

Biomedical and Material Science applications

INVESTMENT SUMMARY

PROVEN TECHNOLOGY

Waste-to-Wear process successfully validated

FIRST MOVER ADVANTAGE

World first TREE-FREE Rayon set to become an alternative to rayon and cotton

STRONG GLOBAL DRIVERS

Brands, retailers and manufactures are urgently seeking sustainable alternatives

LARGE ADDRESSABLE MARKETS

US\$16 billion rayon market with potential to take share from cotton and synthetics

ROADMAP TO INITIAL REVENUES

Refined 2020 commercial roadmap that could see initial revenues this year.





CAPITAL STRUCTURE

- ◇ Incorporated in September 2014
- ◇ Listed on ASX via IPO in October 2017 – ASX: NC6
- ◇ 75m shares on issue
- ◇ 42.5m options (\$0.30, 31 December 2020)
- ◇ 5 founders hold 36% of shares
- ◇ Market Capitalisation of \$4.8m (Share price \$0.065)

CONTACT DETAILS

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MANAGEMENT & BOARD



DR WAYNE BEST
EXEC CHAIRMAN

- ▶ 35 Years experience in organic chemistry & biotechnology sector
- ▶ 10 years at the Chemistry Centre (WA) and was responsible for the formation and running the Medical & Biological Chemistry section
- ▶ Founded Epichem Pty Ltd in 2003, an award winning contract research company, where he remains Chairman



ALFIE GERMANO
MANAGING DIRECTOR

- ▶ 30 years in the global textile industry sector
- ▶ 24 years in the Hong Kong garment industry as a leader of a large scale global product development, sourcing and retail operations
- ▶ Held VP and Director positions at GAP Inc, VF Corporation, Liz Claiborne Inc, Fila Inc and Carter's Inc



HEIDI BEATTY
NON-EXEC DIRECTOR

- ▶ Founder of Crown Addey Ltd and scientist who has over 20 years experience developing consumer and health care products
- ▶ After gaining a bachelors degree in Chemistry from the University of York UK, Heidi worked with Johnson & Johnson for 10 years in Europe and the US.

TERRY WALSH
NON-EXEC DIRECTOR

WINTON WILLESEE
NON-EXEC DIRECTOR

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