

# An irreplicable forestry business model

At the cutting edge of the forest industry sustainability agenda



- + 2 million hectares of land
- 960 thousand hectares of which are conservation areas
- Mosaic plantations that support biodiversity conservation
- + 600 thousand eucalyptus seedlings planted every day
- 15 million tons of carbon net positive in 2020
- Commitment to SBTi

Continue being a benchmark in the sector in efficiency, profitability and sustainability, from the forest to the client

Be a transformational agent in the expansion into new markets for our biomass

Be a reference in sustainable and innovative solutions for the bioeconomy and environmental services, based on planted trees



## Avenues



Be **"Best-in-Class"** in the Total Pulp Cost vision



Maintain relevance in Pulp, through good projects



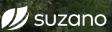
Advance in the links of the chain, always with competitive advantage



Expand boldly into New Markets



Play a leading role in sustainability



## Bold Sustainability Goals for 2030

Be even more

climate positive

To remove 40 million tons of carbon (CO<sub>2</sub>) from the atmosphere.

Offer products from

renewable sources

To offer 10+ million tons of products from renewable sources that can replace plastic and other petroleum-based products.

Mitigate the problem of

income distribution

To lift 200,000 people from poverty in our areas of operation.

Preserve

biodiversity

To connect half a million hectares of priority areas for biodiversity conservation in the Cerrado, Atlantic Forest and Amazon biomes



### Impactful Initiatives in Biobusiness

Replicating our business model success...



Exploring focused technologies and partnerships

Biofuels Biochemicals Biomaterials

Sustainable Textiles
SPINNOVA®

To address new multiple large markets





#### **Business strategy**

Joint Ventures









Multiple options







#### Fibre technology platform

- · Own and develop the technology
- Technology concept provider
- Technology fee

#### Fibre production and sales

- Joint venture (JV) partner
- Multiple other options

#### **Fabric sales**

 Spinnova's own sales and marketing organization









H&M Group



marimekko

**BESTSELLER** 

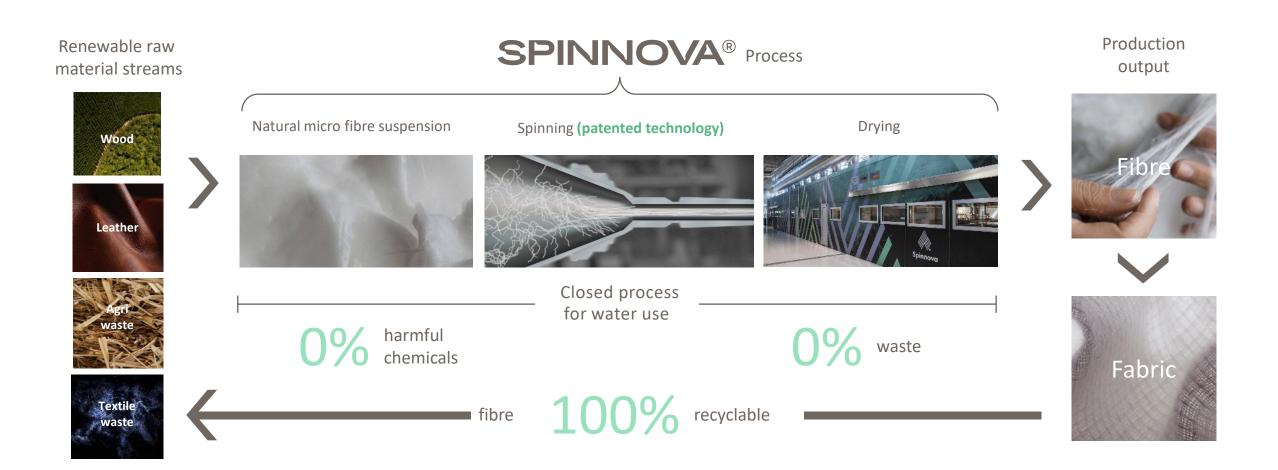
Apparel & Footwear

Interior textiles

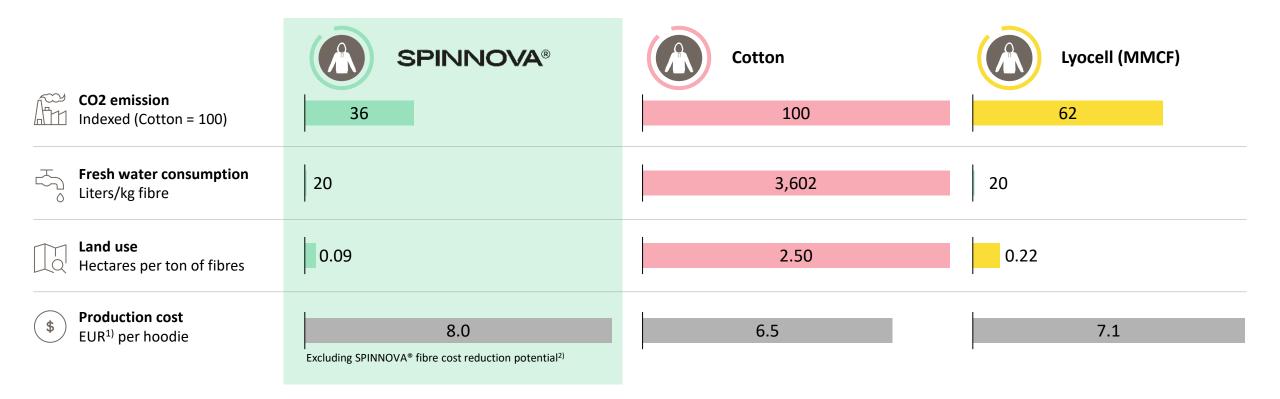
Healthcare

Composites

#### Disruptive technology innovation



#### SPINNOVA® hoodie saves ~40-65% of CO<sub>2</sub> emissions



<sup>2)</sup> Future cost reduction potential likely driven by decrease in price of raw material, optimized energy efficiency and price, optimized process, and economies of scale; 3) Calculated based on index value of water usage where cotton = 100 and Spinnova = 0.5. 99.5% smaller footprint is based on calculation where artificial irrigation of cotton is included to the water usage and eucalyptus uses no artificial irrigation. Source: ICAC, Hasan et al. 2020 "Addressing Social Issues in Commodity Markets", Environmental impact comparison by 3rd party Simreka 2020 (ordered by Spinnova), Shen and Patel " Life Cycle Assessment of man-made cellulose fibres" (2010), Emerging textiles



<sup>1)</sup> Estimated based on the t-shirt production cost calculation logic from Hasan et al. 2020, assuming that production of a cotton t-shirt costs 2.15 EUR and requires ~200g undyed fabric, a hoodie requires ~600g undyed fabric (excluding zippers etc.). Cost of yarn production and all other costs assumed to remain constant for the same weight of fabric used (~86% of cost of cotton hoodie). FX: USD to EUR, 2019 = 0.893.

## WOODSPIN

#### Woodspin Joint Venture

- A 50/50 joint venture between Spinnova and Suzano
- 1st commercial facility built in Finland
- Encompasses a micro-fibrillated cellulose refining (Suzano) and a fibre production (Spinnova) facility
- Estimated to be completed at the end of 2022
- Spinnova is the exclusive technology provider for the 1st and all future Woodspin facilities



#### Joint Scaling Ambition

- To ensure the positive environmental impact it was created for, sustainable SPINNOVA® fibre should be produced in big volumes
- Spinnova and Suzano are committed to a joint industrial capacity scaling of the Woodspin production volumes:

1 million tonnes of SPINNOVA® fibre per year within 10-12 years



