

DATE: 20-04-23

WHAT WE DO

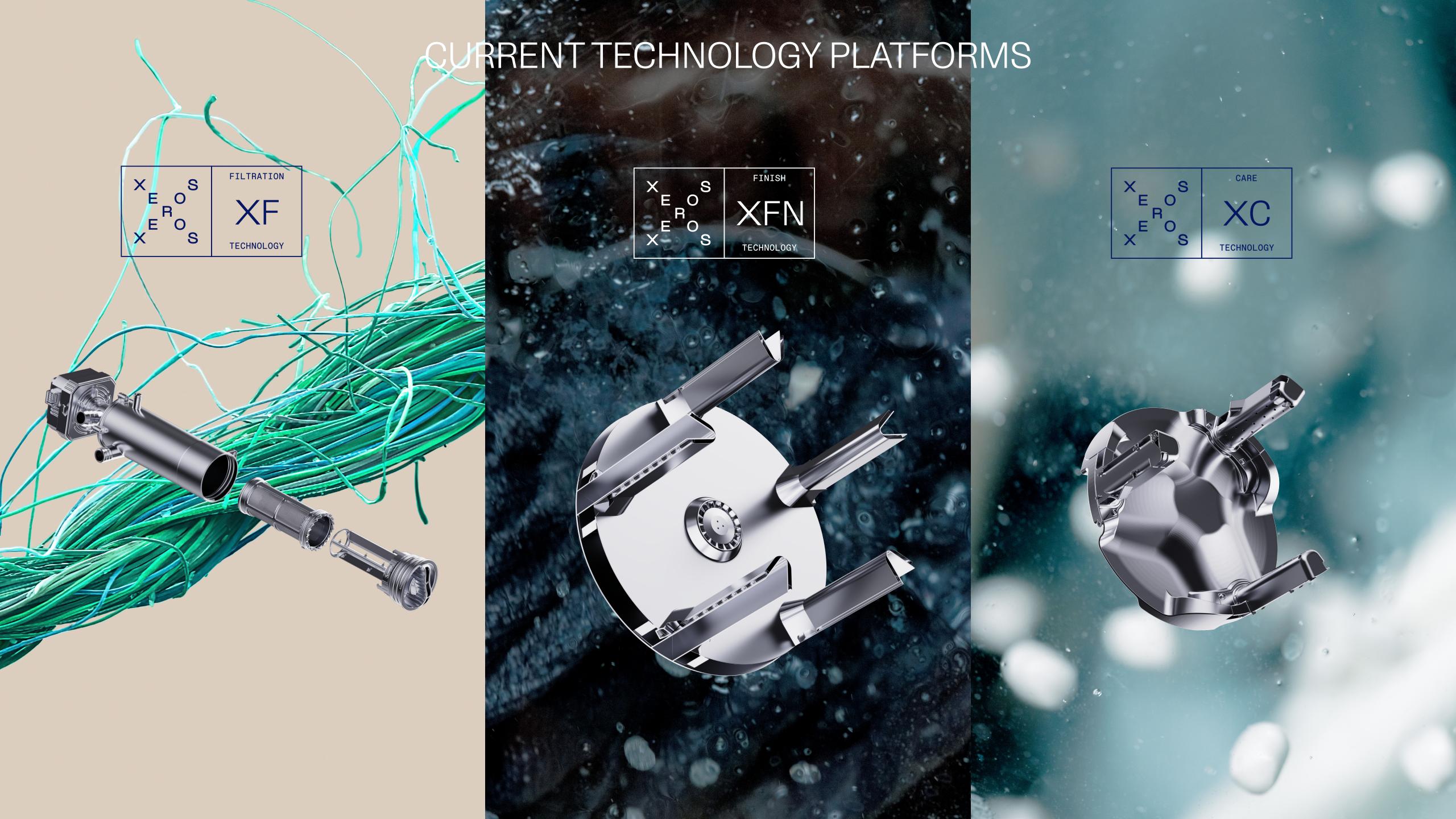


We license sustainable proprietary technology solutions for the laundry and apparel industries.

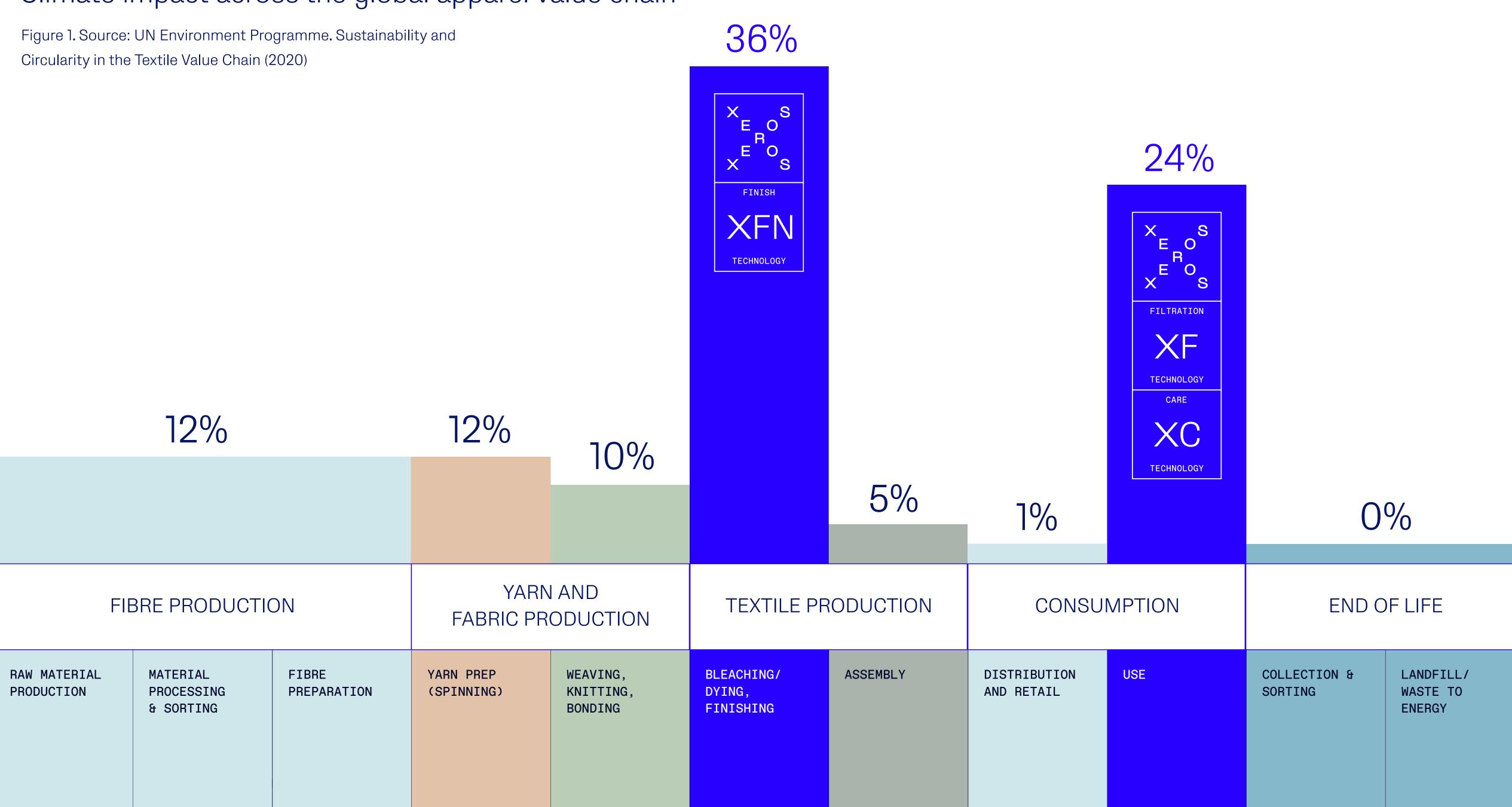
These deliver energy, water and pollution reductions in the production and care phase of clothing manufacture and consumer use, revolutionising how we make and care for our clothes.

Our textile technologies have been developed as part of our ongoing mission to innovate new solutions to reduce waste wherever possible.

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Climate impact across the global apparel value chain



HIGHLIGHTS

01.

FILTRATION

Post-period end, licensing agreements were signed in March 2023 with two major European component manufacturers.

Global legislative agenda moving forward positively, with France mandating inmachine filtration from 2025.

02.

FINISH

In 2023, brand endorsed trials
began for a major European retailer
with a Xeros enabled machine
installed at a manufacturing partner
for their denim production.

In 2022, first revenues from Qualus using Xeros leather processing technology were received

03.

CARE

In December 2022 Xeros launched its commercial/consumer cross-over machines in India.

In December 2022 trials began with Indian Railways on a 90kg platform machine.

04.

NEW CEO

Neil Austin joined the Company as Chief Executive Officer in August 2022.

INVESTMENT CASE

01.

PROPRIETARY TECHNOLOGY

Compelling commercial advantages in the form of reduced water consumption (50%) power (50%) and chemistry (50%+) offering substantial savings.

38 patent families created to enable the licensing of intellectual property to global partners.

02.

LICENSING MODEL

High-margin licensing business model.

Key licence agreements to date include IFB and Ramsons with more in the pipeline.

Hanning, 10-year licence agreement for XFilter technology. Two further major European component manufacturers signed 2023.

03.

GLOBAL MARKET SOLUTION

Environmental drivers Xeros technology can save more than 50% of water used in apparel washing process.

Growing awareness of microfibre pollution. Legislation in France comes into force in 2025. Similar legislative considerations currently in the UK, EU and California.

Water stress problems in the countries where garments are processed.

04.

FINANCIALS

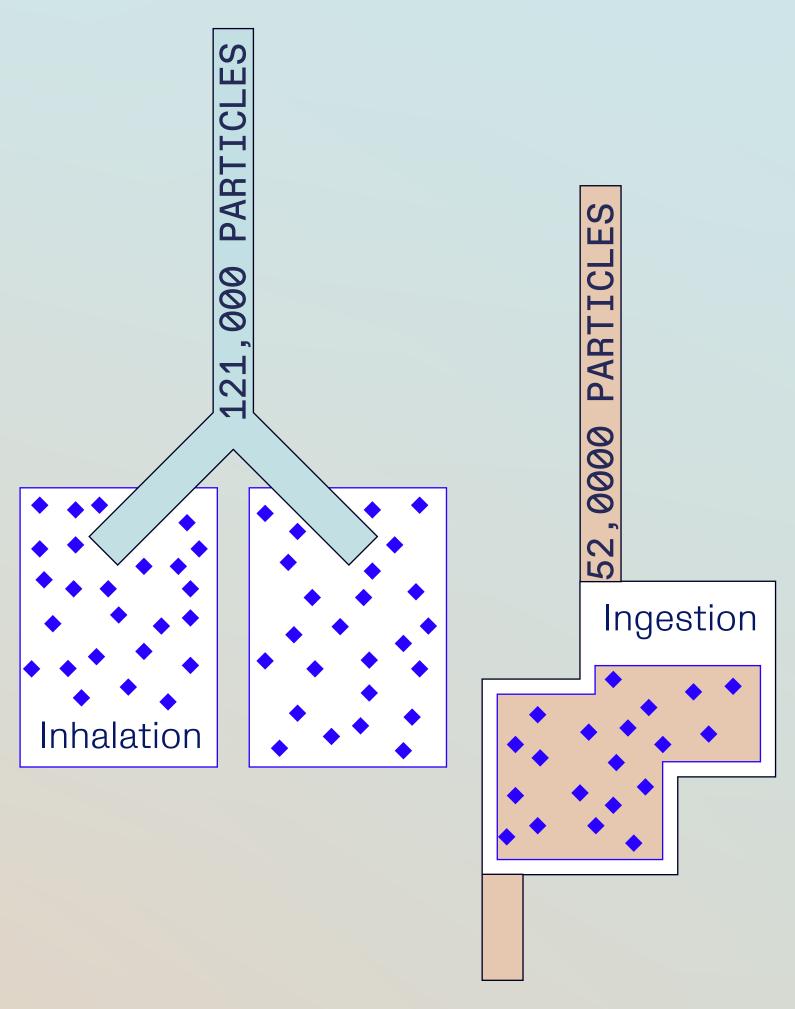
September 2022 fundraise c. £6m

Cash burn £0.5m per month in 2022.

Expecting to breakeven in 2024 with current portfolio of licensing agreements.

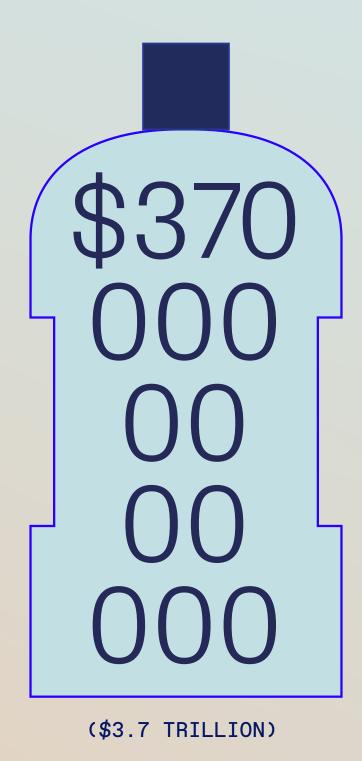


HUMAN IMPACT



Microplastic exposure for a single person every year¹.

BUSINESS IMPACT



The minimum cost that the plastic produced in 2019 will incur over its lifetime is estimated at US\$3.7 trillion (+/-US\$1 trillion), with more than 90% of that cost not included in the market price of plastics²

PLANET IMPACT



TRILLION MICROPLASTICS

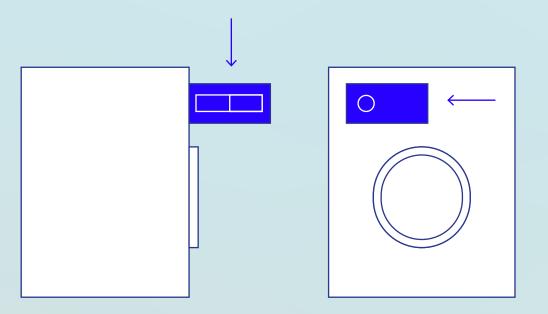
2005

It is reported that microplastic pollution has increased 10-fold since 2005, with over 171 trillion microplastic particles now floating in our oceans.

Scientists predict this figure will increase a further 2.6-fold from 2016–2040³.



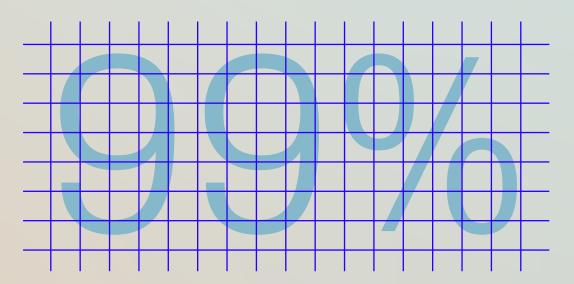
WHAT IT IS



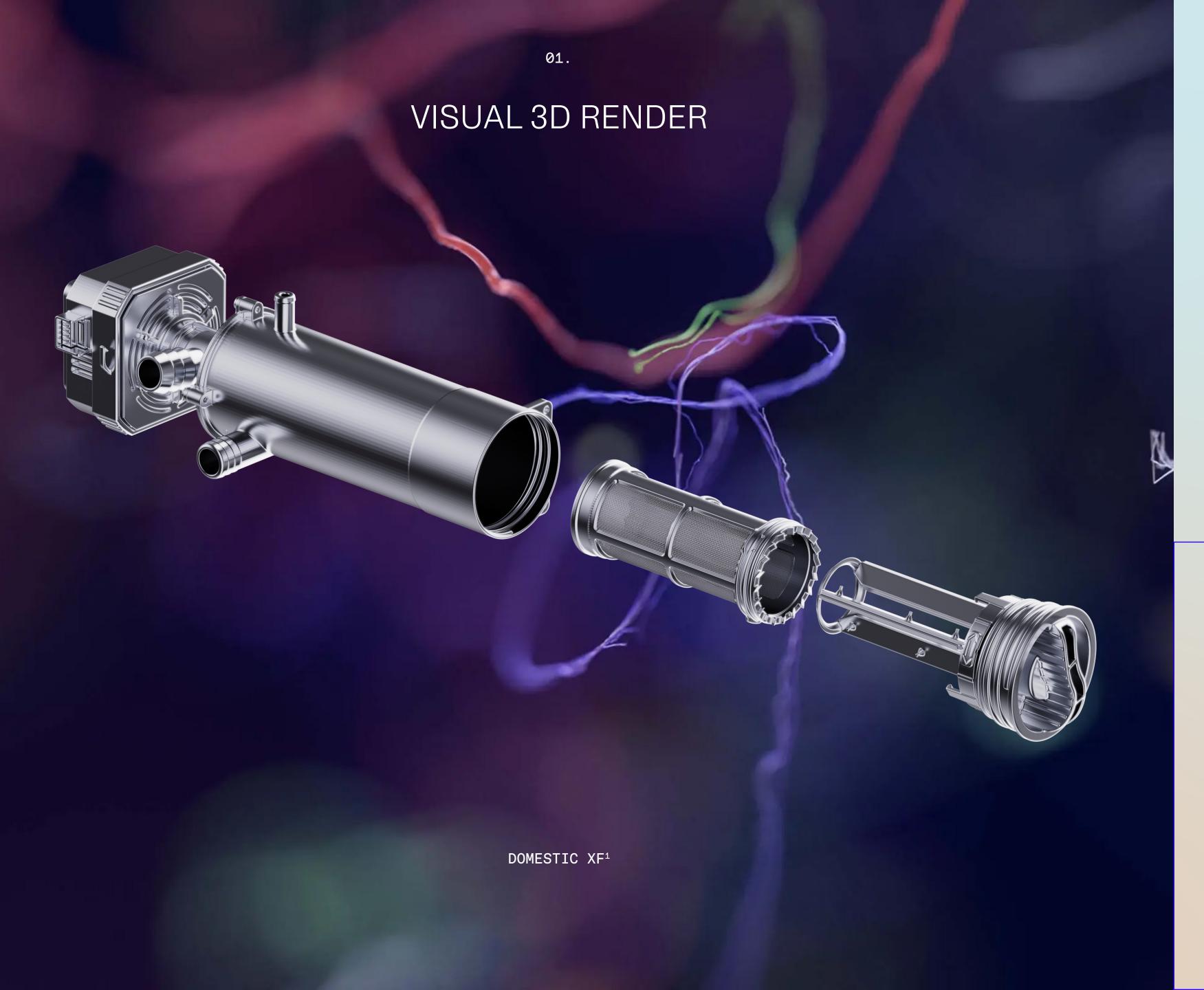
Our filtration technology, XFilter, can be integrated into a washing machine for the home, or built at a large scale for industry.

03.

WHAT IT DOES



Able to capture over 99% of microplastics.



THE OPPORTUNITY TODAY

01.

DRIVING CHANGE THROUGH PARTNERSHIPS















































Working in partnership with NGO's, experts, industry and scientists Xeros are keeping the microplastic topic firmly on the political and media agenda.

02.

PRESS

'Move quickly and make small changes: how to reduce the impact of your polyester clothes' - Guardian

'Companies race to stem flood of microplastic fibres into the oceans' - Guardian

'The Company Behind the Fight Against Microplastics' - WWD

'Microplastics: Laundry filters 'dramatically' reduce fibres' - Science Focus

THE OPPORTUNITY TOMORROW

01.

FUTURE GROWTH

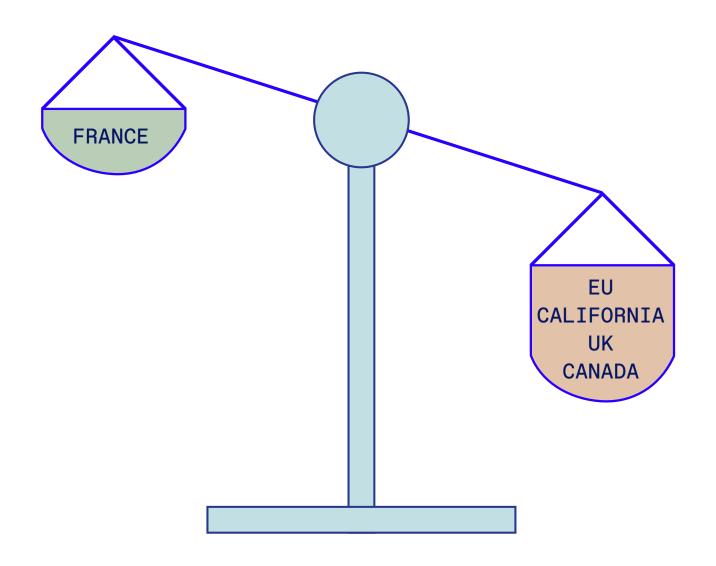


660,000 POTENTIAL FOR FILTRATION

An estimated 1.3 million factories around the world are involved in garment supply chains⁴, of which approximately half are involved in the garment-making stage of the supply chain with a potential requirement for filtration.

02.

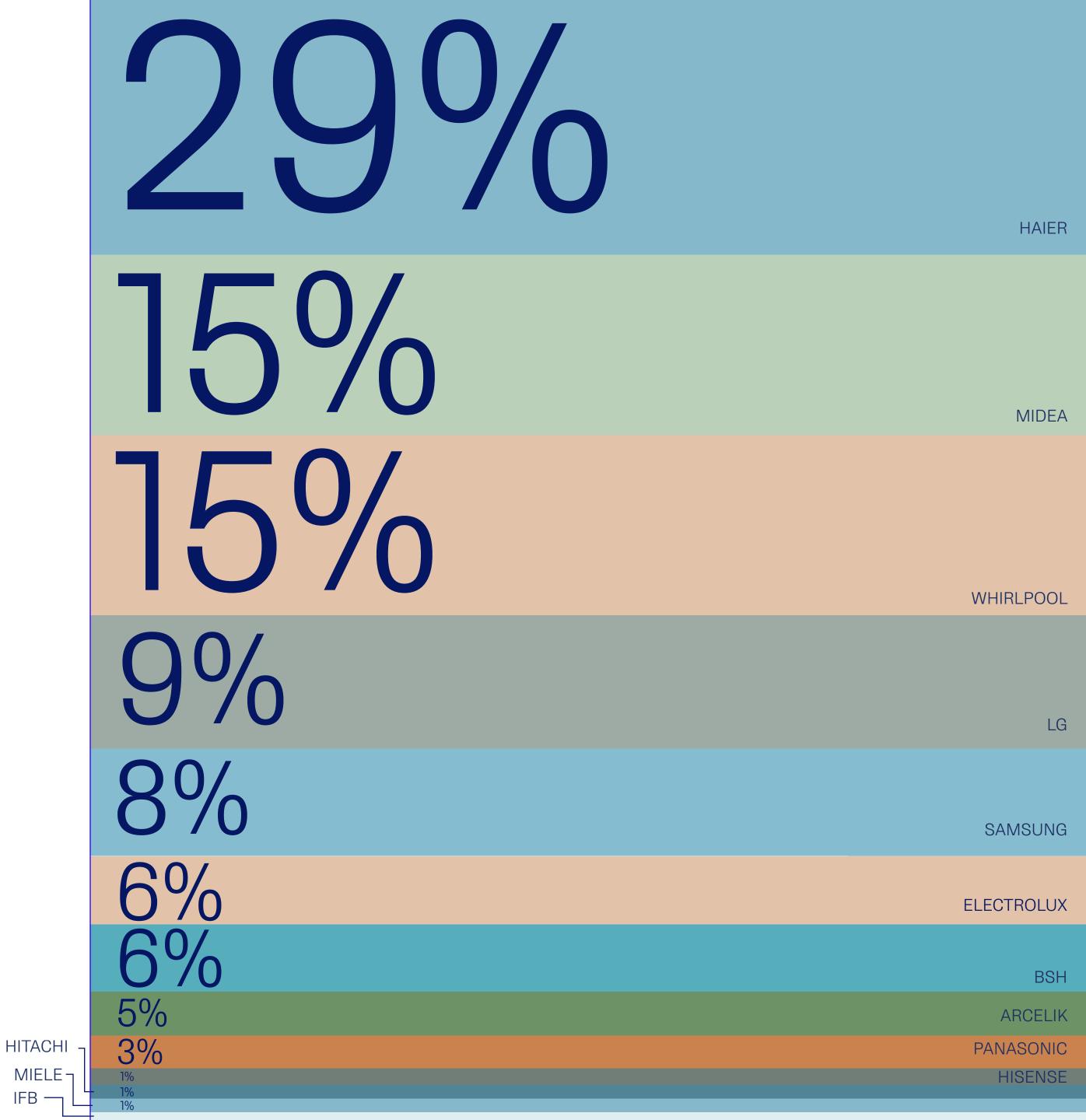
LEGISLATION



WASHING MACHINE FILTRATION IS ON THE POLITICAL AGENDA

In order to deal with unintended microplastic pollution governments are facing growing pressure to mandate for solutions. France has led the way with washing machine filtration a legal requirement in new machines from January 2025. Similar laws are now being considered in the EU, California, the UK, and Canada.

WE HAVE ACCESS
TO 99M UNITS⁵
OF WASHING
MACHINES PER
YEAR VIA THREE
OF THE MAJOR
COMPONENT
MANUFACTURERS





03.

HUMAN IMPACT

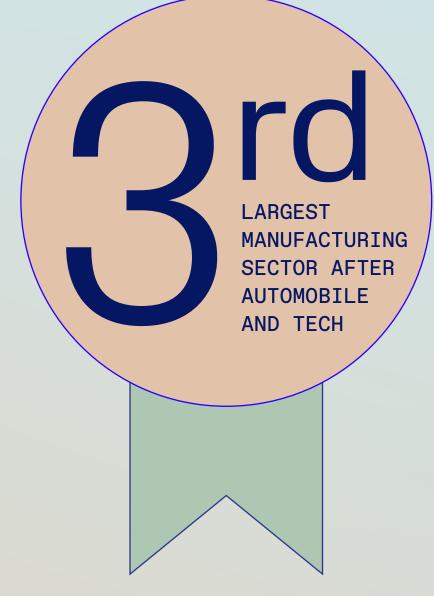


Substances used at all stages of the production process often remain in textiles, both intentionally and unintentionally. This raises concerns due to the adverse effects they can have on people and the environment. Reported impacts range from allergic reactions, to respiratory diseases and increased instances of cancer in humans⁶.

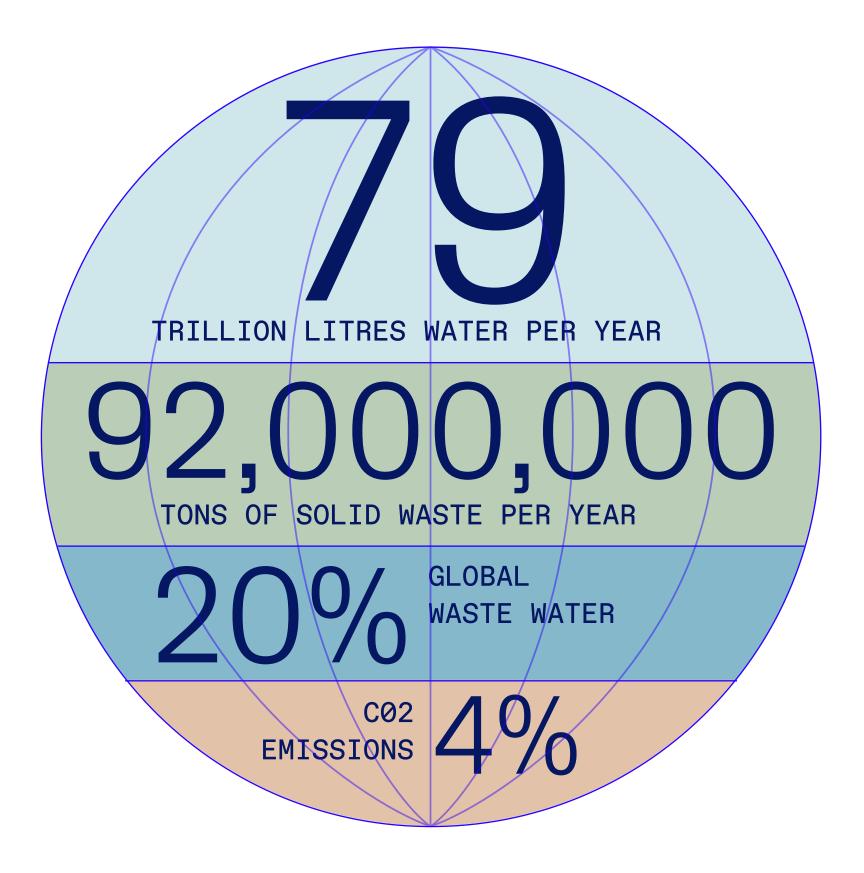
02.

BUSINESS IMPACT

The fashion industry is valued at around USD 2.4 billion globally and directly employees 75 million people throughout its value chain. It is the world's third-largest manufacturing sector⁷ after the automobile and technology industries. 2 billion pairs of jeans are made every year.⁸



PLANET IMPACT

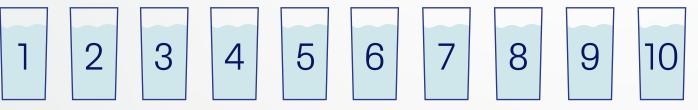


The fashion industry as a whole is reported to be responsible for consuming 79 trillion litres of water per year, producing over 92 million tons of solid waste per year, and contributing up to an estimated 20% of global wastewater⁹ and 4% of CO2 emissions¹⁰.

02.

WHAT IT IS

1 PAIR OF JEANS IS

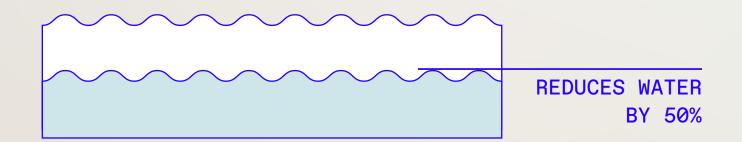


10 YEARS OF DRINKING WATER PER PERSON

Chemicals used in the process escape with wastewater polluting our planet. Today, jeans are still made using pumice stones, which constantly need replacing and create chemically contaminated sludge.

03.

WHAT IT DOES



Our XFN¹ technology uses patented reusable XOrbs to replace pumice, and reduces water and chemistry use by up to 50%.



THE OPPORTUNITY TODAY

01.

DENIM STRATEGY AND LEATHER BUSINESS EVIDENCE

In 2021-2022 Xeros focused on providing proof of concept in a live production environment working with a number of manufacturers.

Current work is now focused on partnerships with a number of major retailers to provide them with personalised results in order to endorse and specify Xeros XFN technology into their supply chain.

In 2019 Xeros licensed its leather finishing technology to Qualus, together with the first contract at a tannery in Mexico. The technology is now live and Qualus are processing leather in Mexico, Brazil, India and Vietnam.

02.

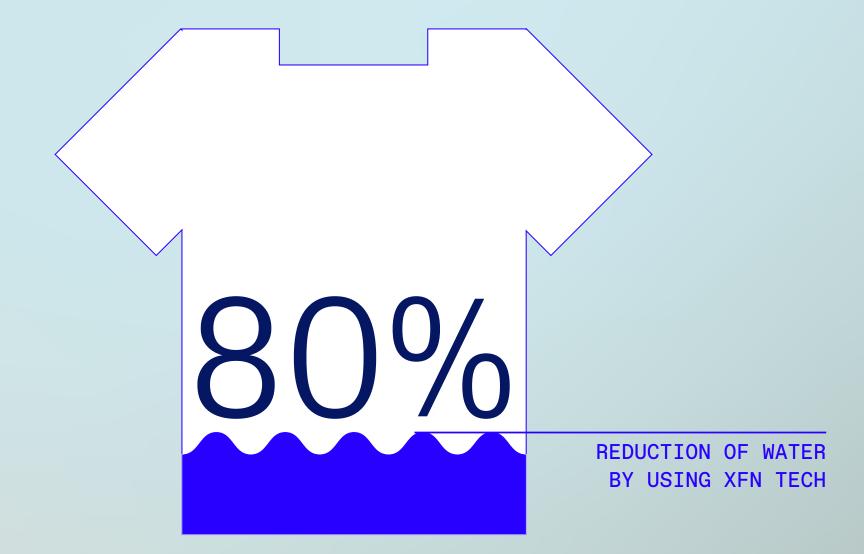
PRESS

'ABA group adopts Xeros denim finishing technology'
– Fibre 2 Fashion

'No-Stone Future - XOrbs distribute enzymes and chemicals evenly to achieve a consistent and reproducible finish' - Inside Denim

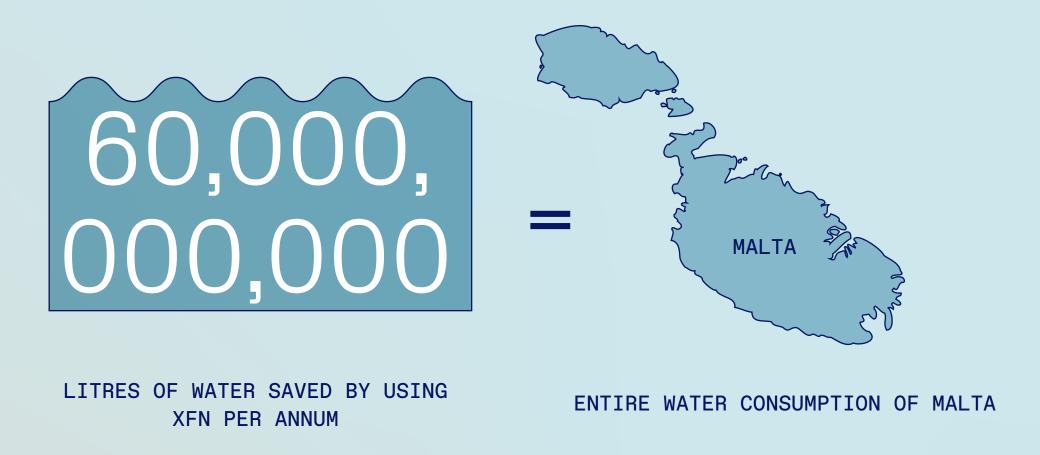
THE OPPORTUNITY TOMORROW

FUTURE PARTNERSHIP BENEFITS



Nearly all garments are washed at the end of the manufacturing process where Xeros technology can cut water consumption by up to 80%. Over 100 billion items of clothing are produced each year.¹¹

XEROS POTENTIAL SAVINGS

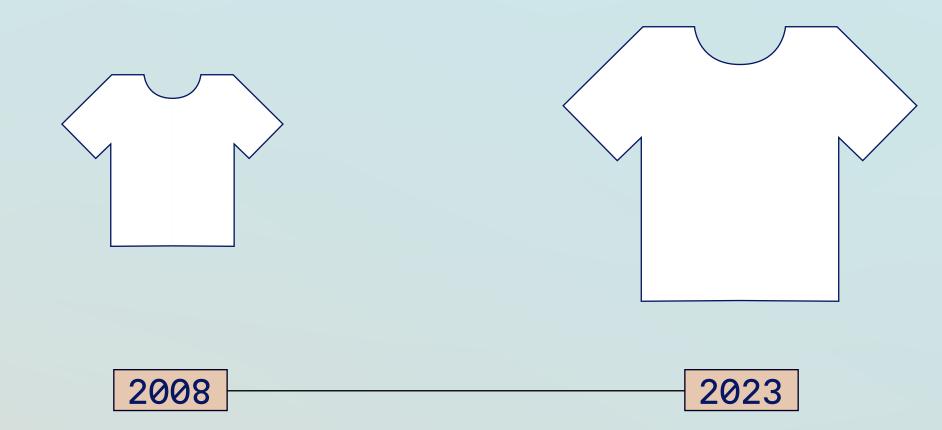


XOrbs can save 50 litres of water for every pair of jeans made, or 60,000,000,000 litres in the jeans manufacturing industry per annum alone. This is equivalent to the entire water consumption of Malta.



01.

HUMAN IMPACT



We are buying 60% more clothing than 15 years ago. 12

02.

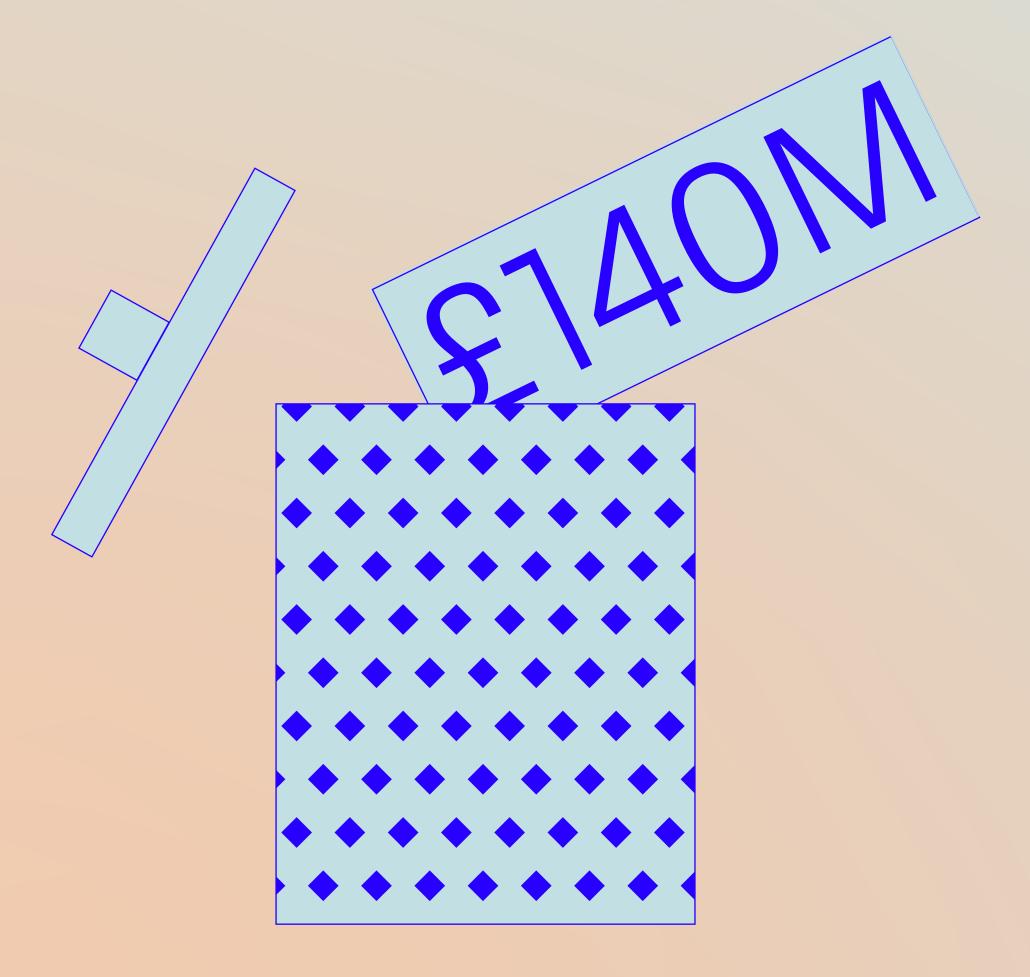
PLANET IMPACT

IN LANDFILL

73% of waste clothing is directly landfilled or incinerated. 13

BUSINESS IMPACT

03.



The estimated cost to the UK economy of land-filling clothing and household textiles each year is approximately £82 million. Around 350,000 tonnes of clothes, with an estimated value of £140 million, go to landfill every year in the UK.

WHATITIS

01.



Our Care technology uses XOrbs, reusable polymer spheres, to wash and care for clothes. It's scalable from domestic washes to heavy industrial use, and it's designed to save 10s of millions of litres of water everyday.

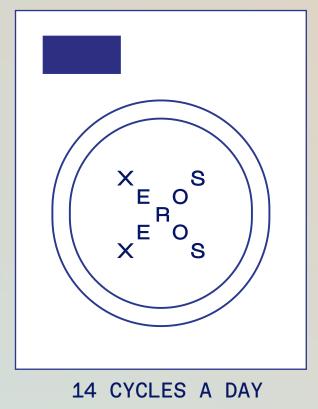
WHAT IT DOES

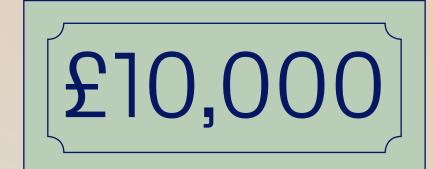


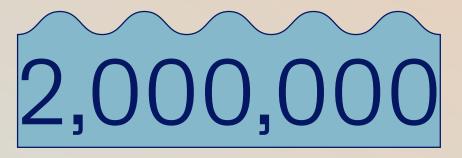
01.

COMMERCIAL + DOMESTIC PARTNERSHIPS

25KG WASHING MACHINE

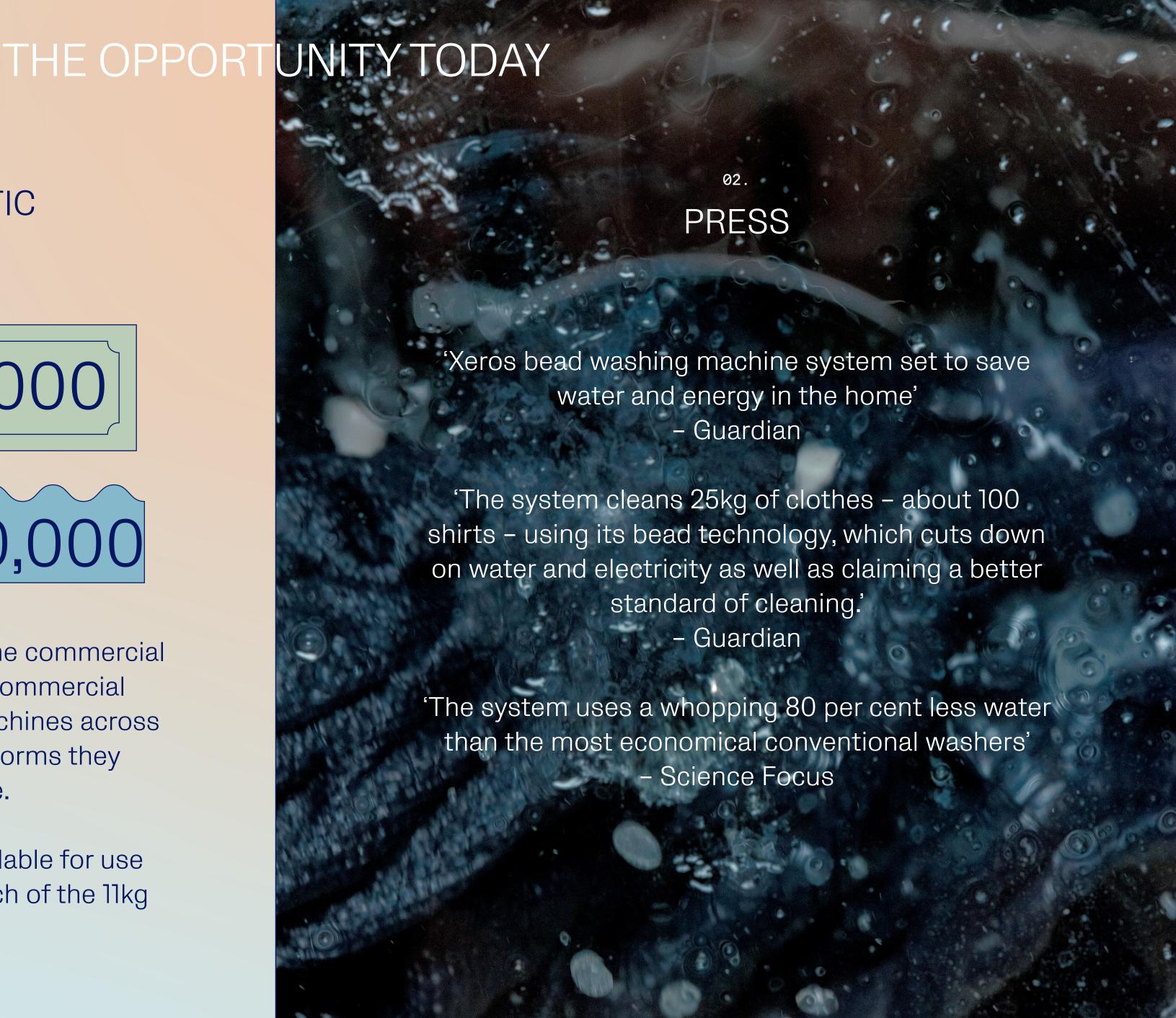






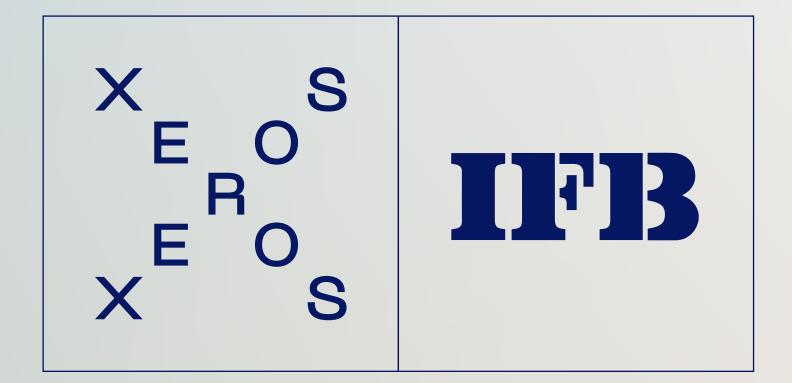
Xeros Care technology has been proven in the commercial laundry sector evidenced by Georges, a commercial laundry in France, with 18 Xeros enabled machines across 8 laundry sites caring for the 55,000 uniforms they process for SNCF and Airfrance.

In India, Xeros Care technology is now available for use by consumers in homes following the launch of the 11kg semi-professional machine.



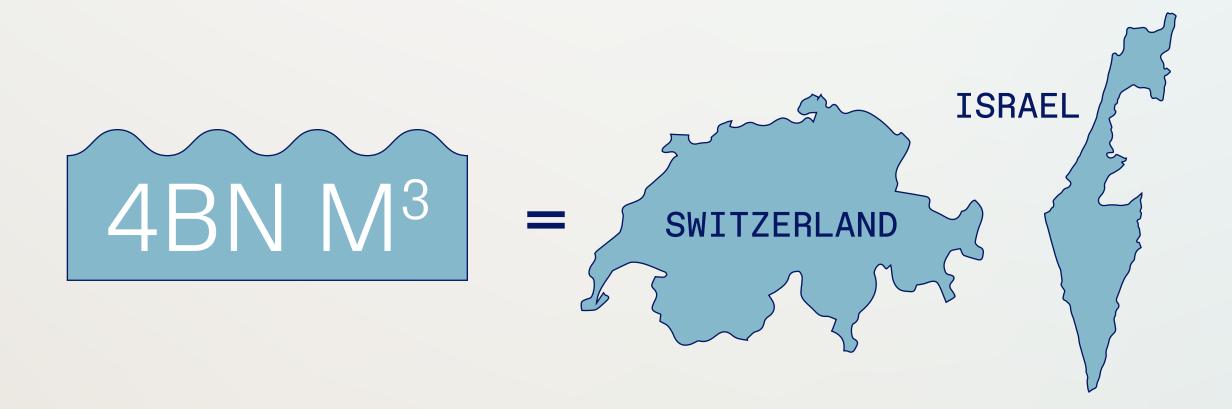
THE OPPORTUNITY TOMORROW

TECHNOLOGY VALIDATION



Xeros' launch partner for domestic laundry, IFB, is based in India – the world's largest user of water ranking 13th in the world in terms of baseline water stress. Almost all of the country suffers from "high" or "extremely high" levels of water stress.

FUTURE PROCESSES



If all domestic washing machines were Xerosequipped, we estimate that global water savings could reach 4bn m3 per year, or the total annual water usage of Switzerland and Israel combined.





FINANCIAL SUMMARY

Revenue of £0.2m (2021: £0.5m).

Adjusted EBITDA loss of £7.4m (2021: loss £6.3m).

Administrative expenses of £7.5m (2021: £7.2m).

Net cash outflow from operations increased by 19.7% to £7.0m (2021: £5.8m). Cash at 31 March 2023 £4.5m.

Cash burn expected to be below £450k per month in 2023.

Month on month EBITDA profitability and cash break-even expected in 2024.

FY23 and FY24 guidance cut with revenue expected to be lower than previously forecast.

Key changes through Q1 2023:

Continued delay in domestic care launch (9 Kg machine).

Signing of 2 further XFilter licences providing better clarity into scope and timing of license partner programmes.

PROFIT AND LOSS

CASHFLOW STATEMENT

PROFIT AND LOSS

Revenue		
Cost of sales		
Gross profit		
Administrative expenses		
Adjusted ABITDA		
Share based payment expense		
Depreciation of tangible fixed assets		
Operating loss		
Net finance income		
Loss before taxation		
Other comprehensive expense		
Total comprehensive expense		

Loss per share (p)

2022

164	
(80)	
84	
(7,518)	
(7,368)	
79	
(145)	
7,434	
(14)	
(7,448)	
515	
(6,933)	

(14.29)

CASHFLOW AND FINANCING

Loss before tax		
Adjustment for non-cash items		
Depreciation of tangible fixed assets		
Share based payment		
Increase in inventories		
Decrease in trade and other receivables		
Decrease in trade and other payables		
Finance income		
Finance expense		
Cash used in operations		
Tax receipts		
Net cash outflow from operations		

2022

(7,448)	
145	
(79)	
(56)	
(15)	
(46)	
(16)	
30	
(7,485)	
515	
(6,970)	

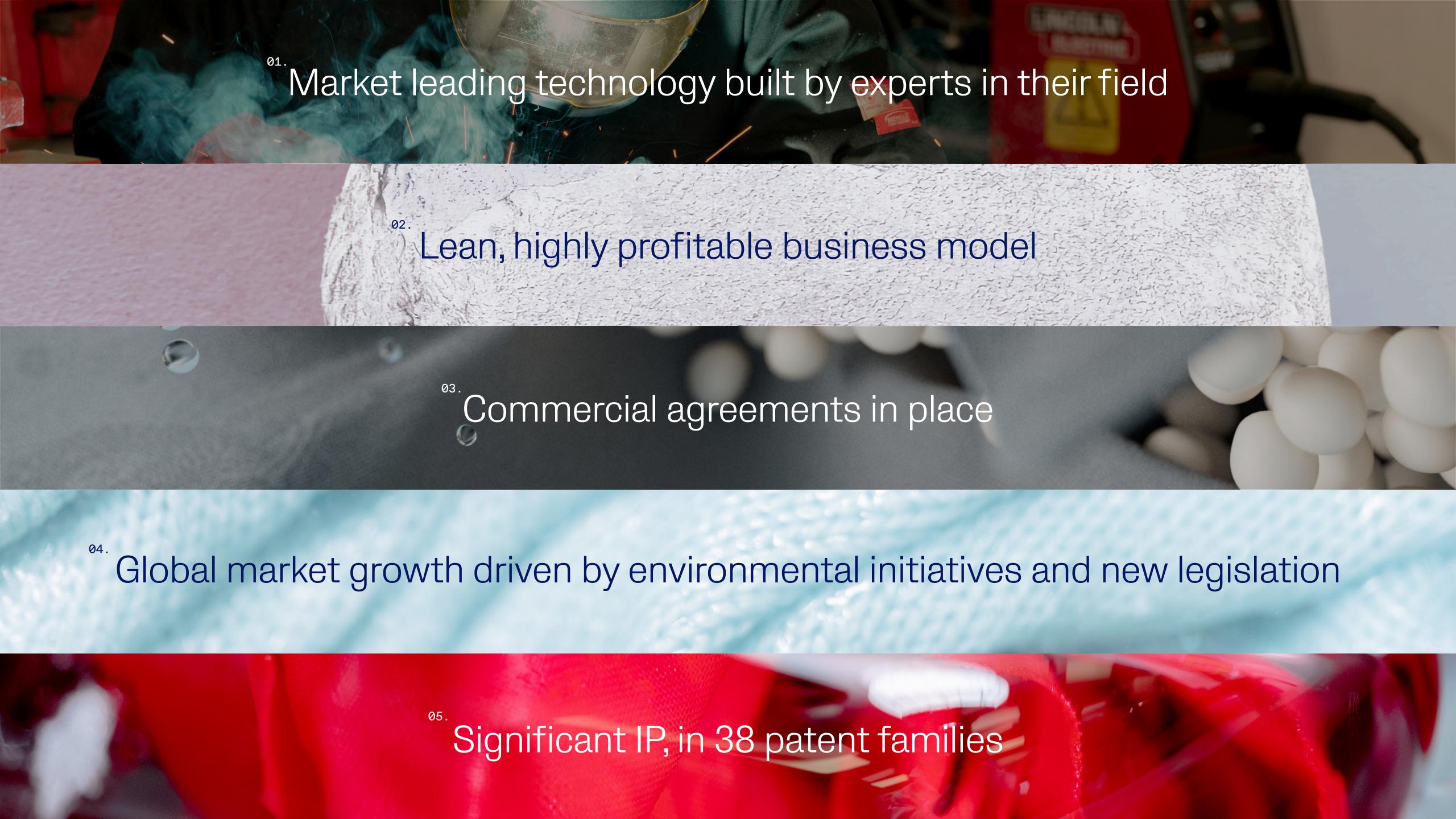
CASHFLOW STATEMENT

SHARE REGISTER

CASH FLOW + FINANCING	2022
INVESTING ACTIVITIES	
Finance income	15
Finance expense	(30)
Purchase of property, plant + equipment	(63)
Cash place on/(removed from) deposit	5,319
Net Cash inflow/(outflow) from investing activities	5,241
FINANCING ACTIVITIES	
Proceeds from issue of share capital, net of costs	5821
Payment of lease liabilities	(113)
Net cash inflow from investing activities	5,708
Increase/(decrease) in cash and cash equivalents	3,979
Cash and cash equivalents at start of year	2483
Effect of exchange rate fluctuation on cash held	3
Cash and cash equivalents at end of year	6,465

FUND	% VOTING RIGHTS	NUMBER OF SHARES			
Entrepreneurs fund LP	23.7%	35,767,534			
Cannacord Genuity Wealth Management	14.3%	21,598,119			
Dowgate Capital	10.03%	15,846,250			
Lombard Odier Investment Managers	8.5%	12,893,266			
Spreadex	6.0%	10,093,834			
Hargreaves Lansdown	5.2%	6,834,668			
W H Salomon Esq	4.3%	6,548,631			
Richard Griffiths	3.2%	5,009,137			







SOURCES

- 1. United Nations Environment Programme (UNEP). From pollution to solution a global assessment of marine litter and plastic pollution (2021).
- 2. A report for WWF by Dalberg. Plastics: The cost to society, the environment and the economy (2021).
- 3. Erikson, M. et al. A growing plastic smog, now estimated to be over 170 trillion plastic particles afloat in the world's oceans— Urgent solutions required. Plos One. (2023).
- 4. Common Objective. Global Garment Manufacturing: Turning Fabric into Fashion (2018).
- 5. Euromonitor data
- 6. Ellen MacArthur Foundation. A new textiles economy: redesigning fashion's future (2017).
- 7. The World Bank. How much do our wardrobes cost to the environment (2019).

- 8. Ellen MacArthur Foundation. How redesigning jeans could change the way we think about the fashion industry (2021).
- 9. Fashion on climate: How the fashion industry can urgently act to reduce its greenhouse-gas emissions, McKinsey 2020.
- 10. Niinimaki et al. UN Climate Change (2020).
- 11. McKinsey & Company. Style that's sustainable: A new fast-fashion formula (2016).
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