

Worn Again Technologies' Polymer Recycling Solution for Poly/Cotton Textiles

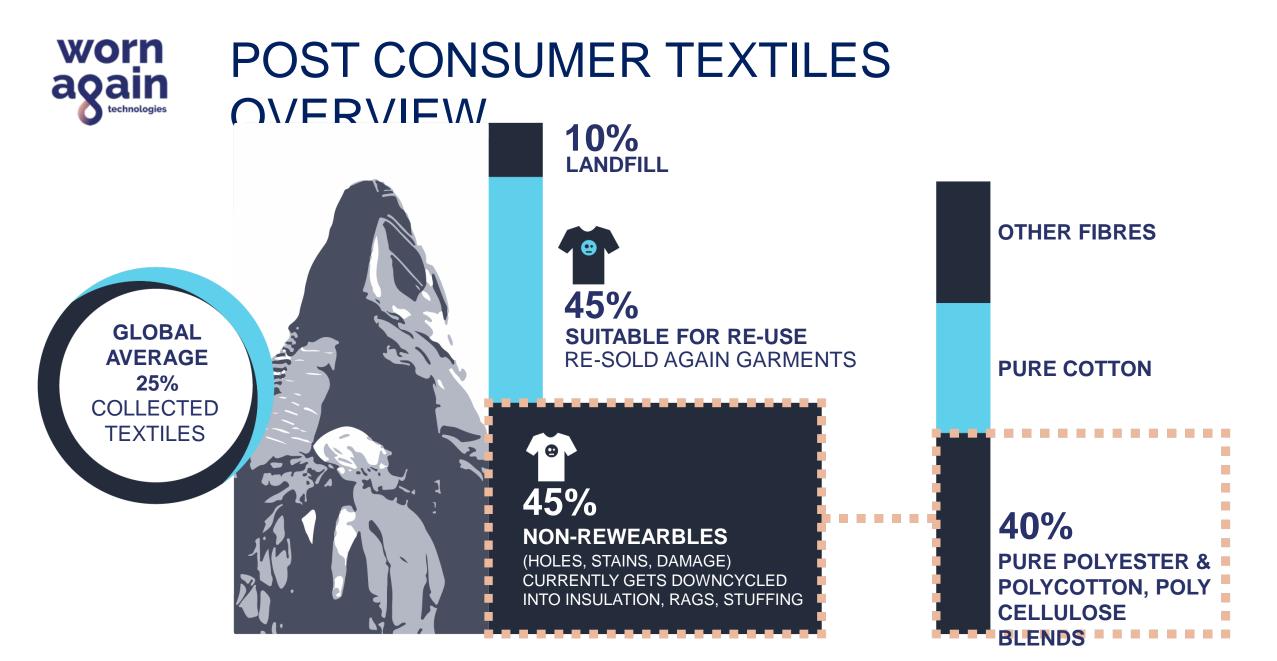
Industrialization 'lift off' with demo plant launch in Winterthur, Switzerland

Torsten Wintergerste President, Sulzer Chemtech Chairman, Worn Again Technologies



LINEAR IS UNSUSTAINABLE

<1% **92m** 45% IN 2020 ALONE 109m TONNES **OF MATERIALS WERE USED** PROJECTED TONNES OF TEXTILES **TEXTILES RECYCLED TO MAKE FIBERS FOR** INCREASE **BACK INTO TEXTILES** (incl. manufacturing waste) **TEXTILES** IN DEMAND BY 2030 **END UP IN LANDFILL** EVERY YEAR 52% BY 2030 IT IS EXPECTED THAT THERE WILL BE POLYESTER **NEARLY 150m TONNES OF** 23% **FASHION WASTE** COTTON 7% CELLULOSIC



¹ Approximately 40% of collected non-wearables are pure poly & poly/cotton blends Source:Fibersort experiment



CIRCULARITY HIERARCHY

PYROLYSIS

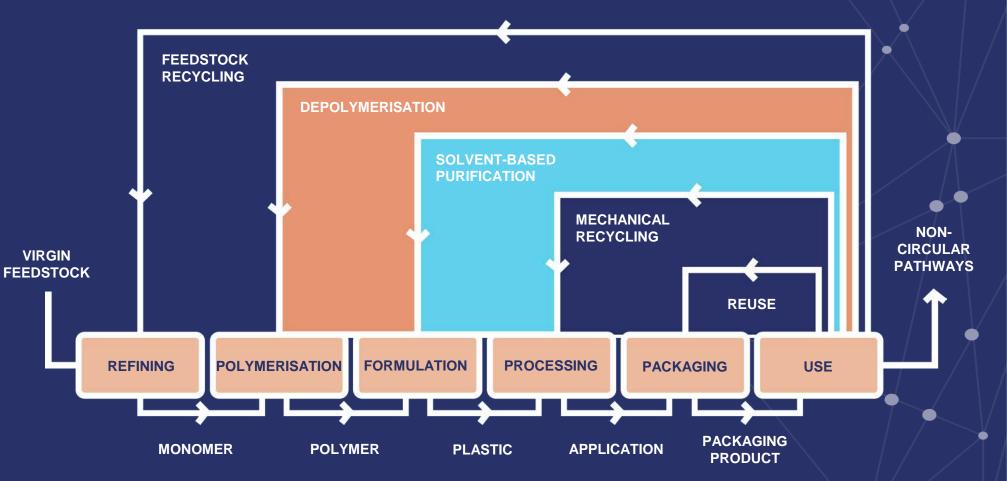
- Heating product under the absence of oxygen
- Production of hydrocarbon oils
 (feedstock for refining processes)

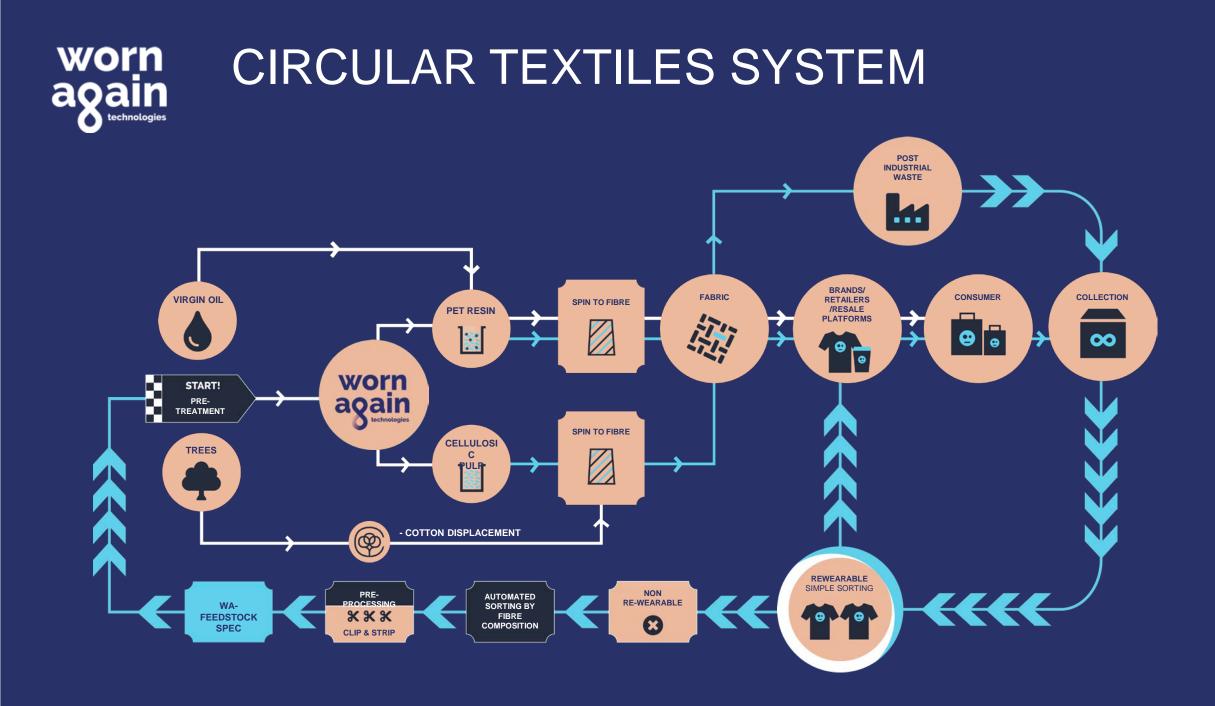
DEPOLYMERISATION

- Converting a fibre feedstock into monomers
- Limited to the recycling of one input

SOLVENT-BASED RECYCLING

- Selectively recovering on polymer using very specific solvents
- Extraction of impurities
- Simple post-processing
- Re-creating fibers

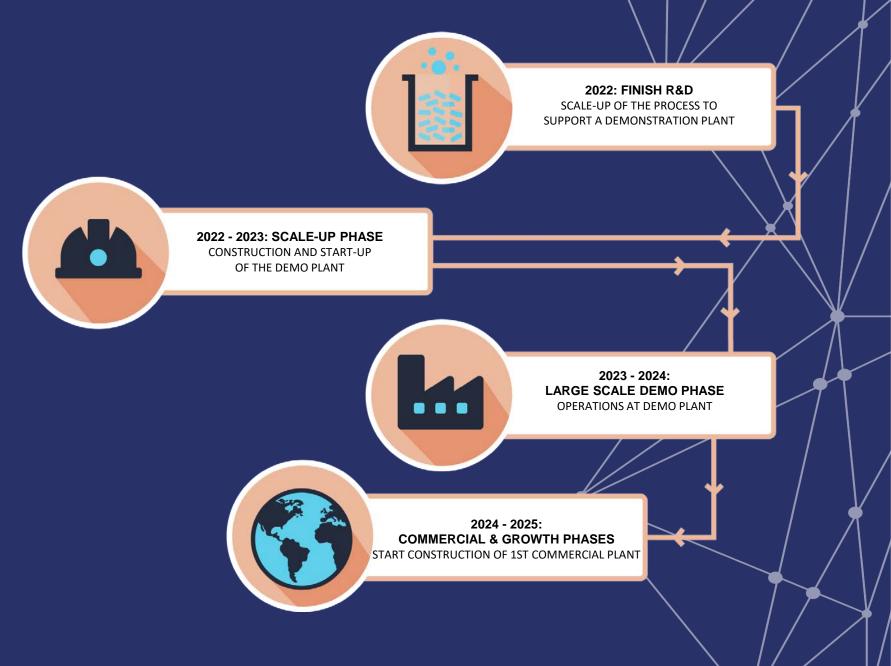






WHERE WE'RE AT:

THE ROAD AHEAD

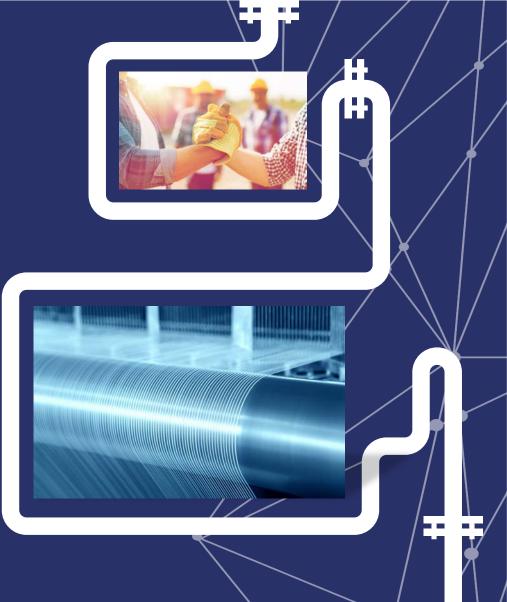




WORN AGAIN'S BUSINESS MODEL

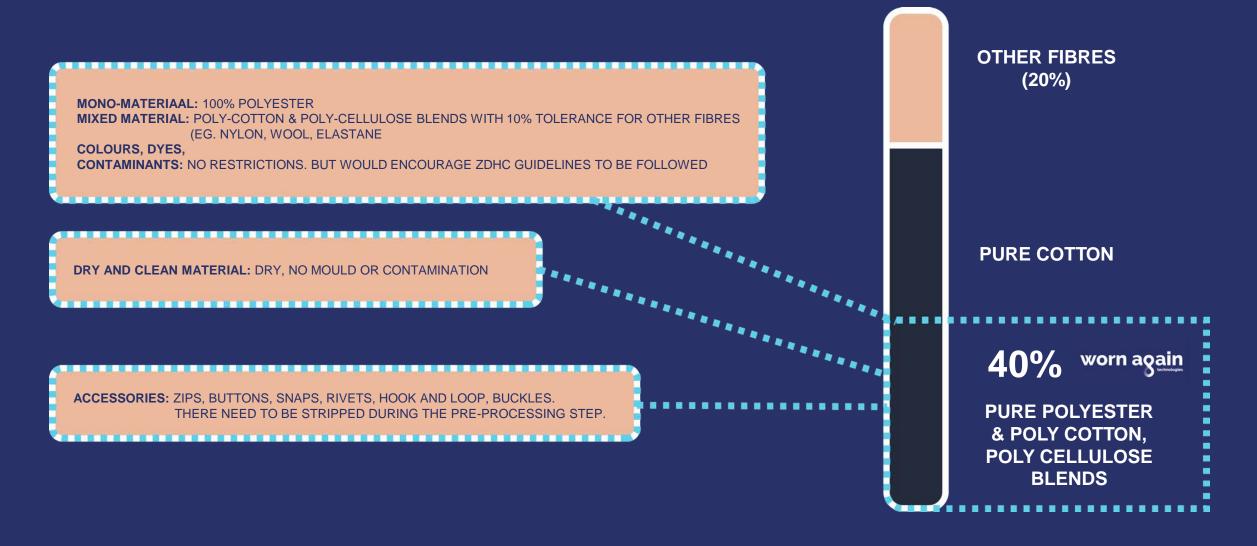
Our goal is to build 40 plants by 2040 and we can't do it alone

- Changing the current paradigm requires collaborative efforts from everyone in the textile value network
- If you are a potential plant operator, equipment provider, development partner or brand/retailer interested in playing a part, get in touch with us



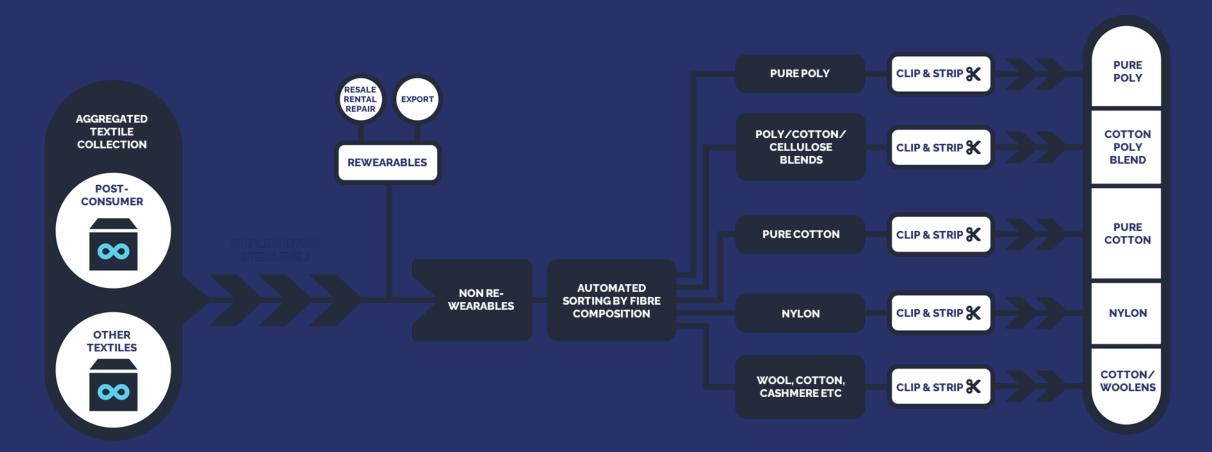


FEEDSTOCK SPECIFICATIONS





FUTURE: ADVANCED TEXTILE SORTING FACILITY





FEEDSTOCK SUPPLY

Demonstration Plant

- 65/35 Polyester : Cotton Blend
- Single Sourced
- Clip and Strip
- Shredding
- Delivery in bales to Demonstration Plant via Box Truck

Commercial Plant

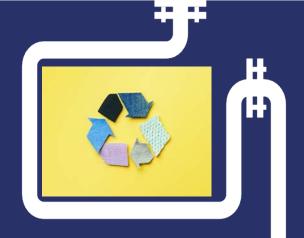
- Post-Consumer or Post-Industrial Textile Waste
- Automated Sorting by Material (Near-Infared)
- Sorting/Clip and Strip/Shredding/Baling at Sorting Facility
- EU subsidies, End of Use taxes
- Delivery to Commercial Plant via Box Truck







GOALS OF THE TECH



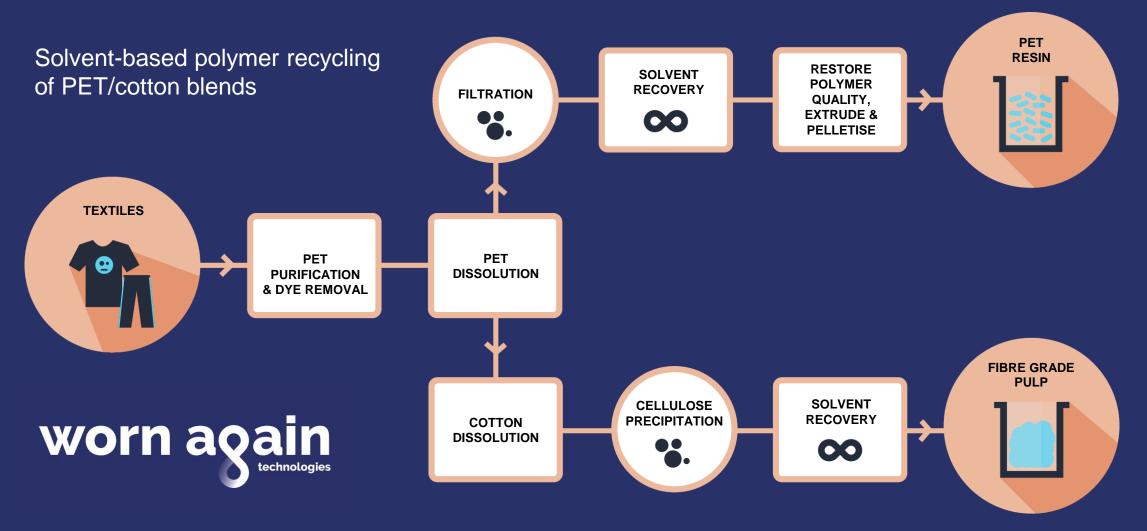
Our goals

- To produce virgin-equivalent, high-quality materials
- Cost-competitive processing
- Environmentally beneficial process
- Ultimately, to replace the use of virgin resources





WORN AGAIN'S RECYCLING PROCESS





SWISS TEXTILE RECYCLING ECOSYSTEM

The first WAT plant will be built in Switzerland where we have developed strategic partnerships throughout the supply chain.





	2020			2021				2022				2023				2024				2025				2026				
Q	ιc	22 0	23	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	a	2 Q3	Q4
	Scale				Lab Scale							Demo Scale							Commercial Scale									
	Objective				Define WA - FS							Validate WA - FS							WA - FS									
	Facility					SPL							Demonstration Plant							Commercial Plant								
	Amount					< 1 Ton							1.000 Tons p.a.							50.000 Tons p.a.								
	Туре				Experimental Swatches							WA - FS Campaigns							WA - FS									
	Terms				Collaborators on Project Level							Provision of Selective Test Batches & Industrial Trials								Long-Term Supplier Contracts								
	Pa	artn	ers		Swiss Ecosyst							em Partners							Operator Defined									