SHIFTTOCADIRA

We Now Live In a World Where Sustainability can not be neglected

CADIRA LAUNDRY SUSTAINABLE LAUNDRY SOLUTIONS



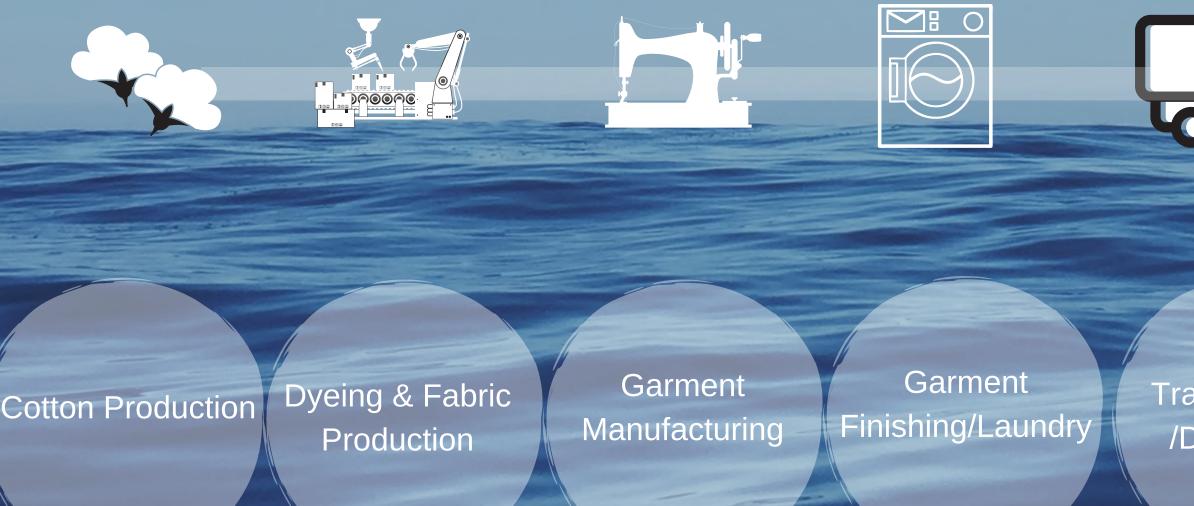




S H I F T T O C A D I R A

We are Living In a Different Era!

Life Cycle of Washing Industry



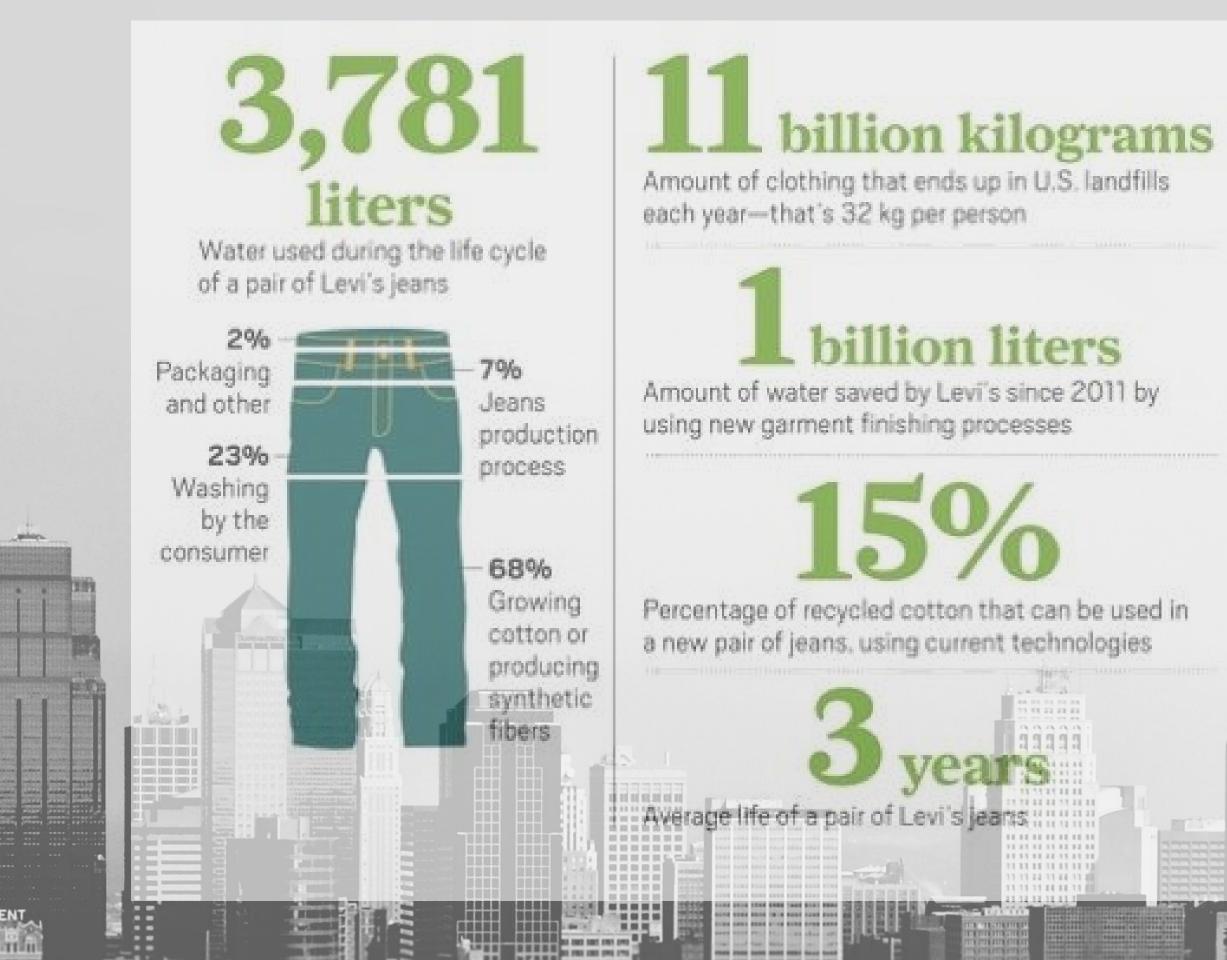


Transportation /Distribution

Consumer Use

End of Life

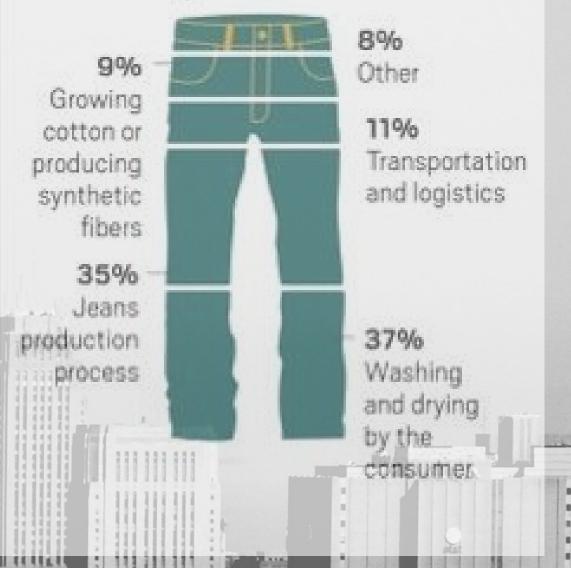
Kaiser



DyStar.

33.4kilograms

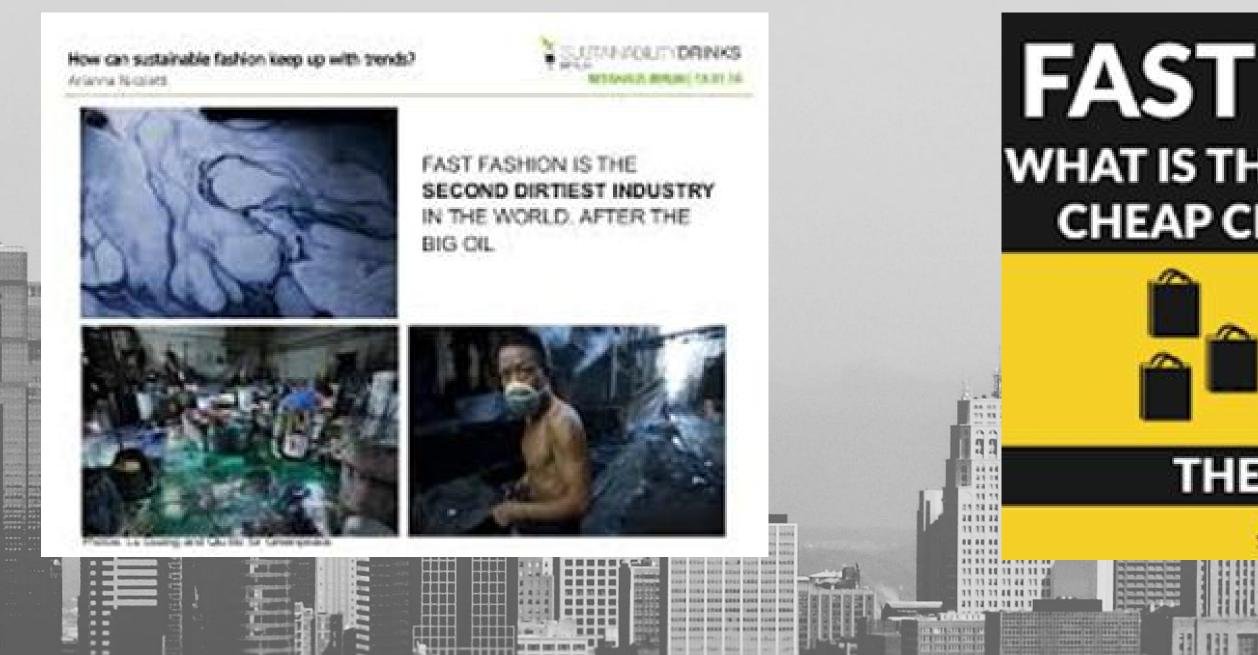
CO₂ emissions during the life cycle of a pair of Levi's jeans



11) 11111

SHIFTTOCADIRA

Fast Fashion Is the Second Dirtiest Industry in the World





FAST FASHION WHAT IS THE TRUE COST OF THE **CHEAP CLOTHING WE BUY?**

2nd MOST TOXIC INDUSTRY

world's second dirtiest industries after oil

THE TOXIC FACTS

JCooper.co.uk

#SHIFTTOCADIRA

What happens if we do not take any action?

- By 2020, H&M Group aims to source 100% sustainable cotton
- By 2030, H&M Group aims for 100% recycled or other sustainably sourced materials.
- By 2040, H&M Group aims to have a climate positive value chain
- BESTSELLER has set a goal to be powered by 100 percent renewable energy by 2021 in our owned and operated buildings globally. In 2019, we will unveil a project to get to 100 percent.
- The ZDHC Programme developed an initial work plan (the Joint Roadmap) to organise and set a path towards addressing the challenge of zero discharge by 2020..

Depleted Resources Global Warming Fast fashion is second dirtiest industry in world





SHIFTTOCADIRA

Consumer Behaviour on Sustainable Fashion

60.1 % of people said they would buy a garment which is made from recycled materials. Once • the useful life of the piece is over, it will biodegrade, instead of adding to a landfill.

67 % of people said they would buy a garment that is made by a company who follows standards of environmentalism and social policy in areas related to production of goods.

61.1 % of people said they would buy a garment produced by natural fibers that have been grown without any pesticides and other toxic materials, preserving the health of humans and the environment.

44.1 % of people said they would buy products that have been made without the use of animal tissue products

Adopting this change will likely result in highly positive future for our partners







Laser Technology

The energy provided by a laser beam has two effects on indigo dyed fabrics. On one side, the thermal effect of the laser sublimates indigo dyestuff, bleaching to a certain extent those areas of contact. From another side, this thermal effect is burning the surface of the fabric, eliminating coloured fibres and revealing the undyed yarn/fibre below.







Ozone Technology

Ozone is a strong oxidising agent which decomposes indigo and other dyestuffs. The oxidising characteristic of ozone is used to fade down denim jeans

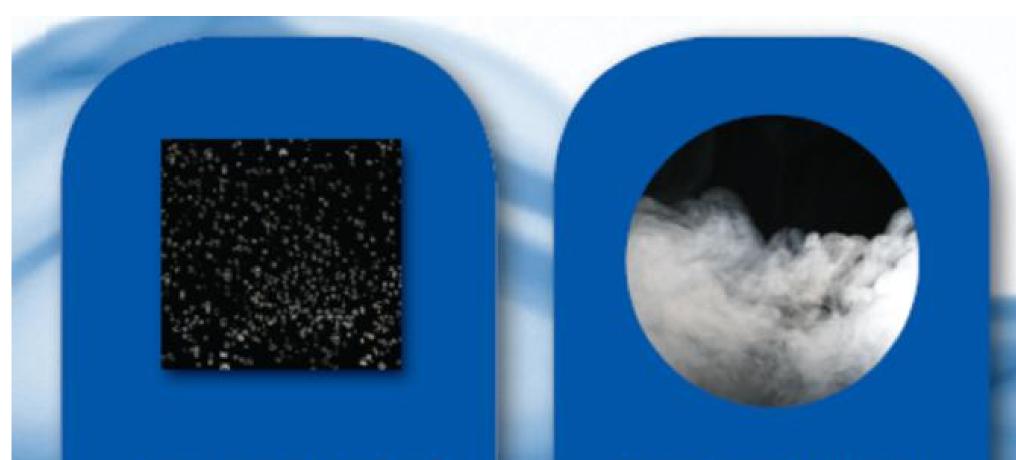








Nano bubble technology



Air, water and chemicals are introduced into the e-Flow machine, creating a mixture of nano-bubbles and moist air.

The mixture is injected into a rotating tumbler containing the denim garments.





The nano-bubbles layer transports the chemicals to the garment, creating effects in a closed system.



The conventional vehicle to convey the chemicals to the fabric is water, injection system uses air.



In new technology, air from the atmosphere is transformed into nanobubbles.





Products and water then naturally distribute themselves forming the nanobubble skin, making a perfectly homogeneus mix between water, products and air.





CURRENT APPLICATIONS WITH NANO BUBBLE TECHNOLOGY

Softening



Resins for 3D effects



Water repellence Easy care Wrinkle free finishes







#SHIFTTOCADIRA

What has changed with Dystar Cadira?





Chemical Impact Up to 60 % Less



SHIFTTOCADIRA

Enzymes are not living organisms They are proteins

Enzymes are nature's tools They speed up vital biological processes

Enzymes are fully bio-degradable and break down to harmless amino acids

What are enzymes?

Enzymes are present in all living cells



Enzymes are catalysts! We use them to catalyze chemical reactions, enabling milder processes and save time, energy and water







Water&Energy Consumption

- All applications are being done in room temperature conditions
- · Chemical solutions are applied on the garments with the usage amounts only as much as the garments needed
- Less waste water and sometimes zero discharge



Factors that put worker's health at risk during labor operations

- No hazardous chemical bleaching agents usage
- · All chemicals are applied in closed system with certified machines



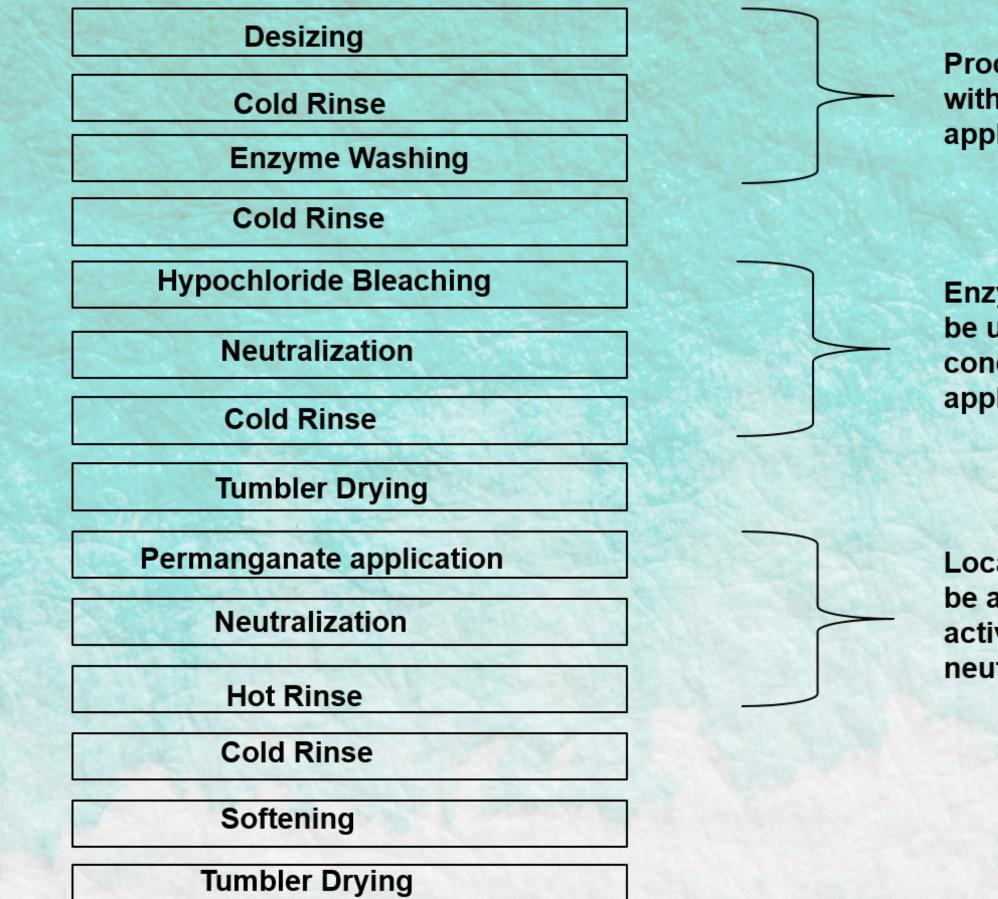
WHAT IS OUR REAL COST?





Chemicals &Dyestuffs Cost

#SHIFTTOCADIRA







Process combination is possible with Lava Cell NEF with e-Flow applications

Enzymatic bleaching system can be used in room temperature conditions with e-Flow applications

Local color fade down effect can be achieved by using laser activating system and no neutralisation needed

> Water consumption: Over 100 Liter/garment produced

#SHIFTTOCADIRA

Desizing + Enzyme Washing*

Cold Rinse

Enzymatic Bleaching*

Neutralization with Soda Ash

Cold Rinse

Tumbler Drying

Laser Pretreatment with Laser activator*

Laser

Detergent Washing

Softening*

Tumbler Drying

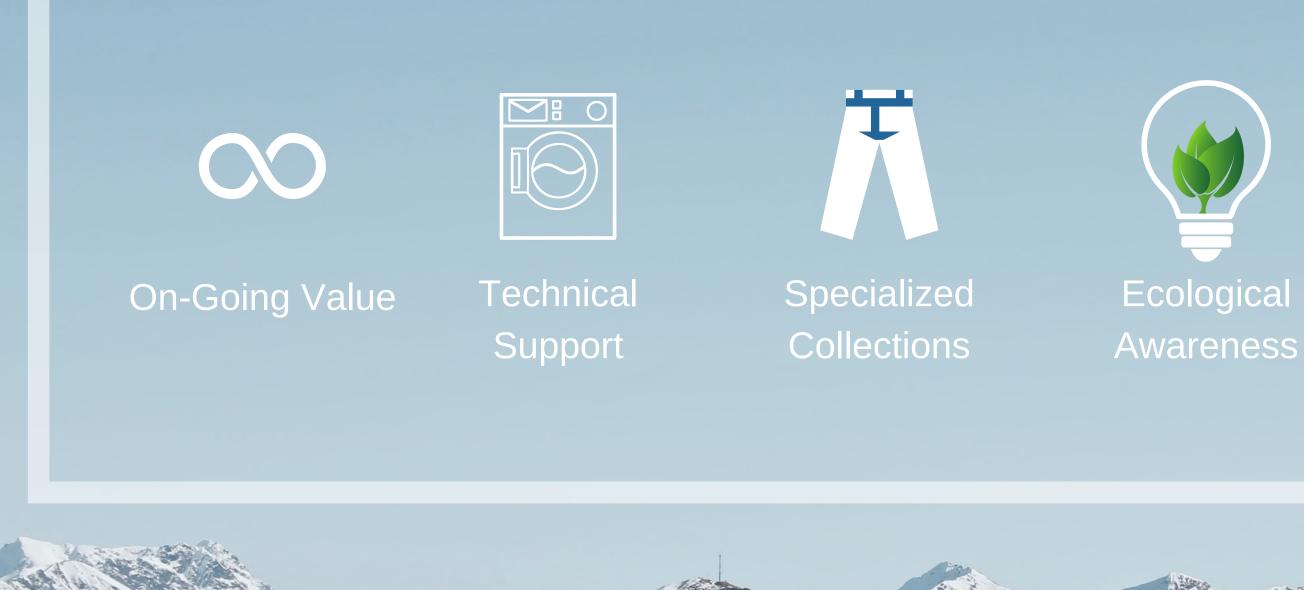


nano-bubble application



The combination of certified systems and enzymes for mist technology

SHIFTTOCADIRA Kaiser/Dystar









Laundry Academy



#SHIFTTOCADIRA

Together, we can change the world.

Follow up for more updates...







kaisertekstil



kaisertekstil.com