## Novozymes - Sustainable Solutions

Why sustainability is a great business strategy and how we do it in Novozymes

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#### Recognized as a sustainability-driven organization

obal Compact

#### Novozymes in the Dow Jones Sustainability Indexes (DJSI):

- Included in DJSI Biotechnology sector since 2000, and sector leader 2000-2007 and 2009-2012
- 'Gold Class' rating in 2010-2012 in Sustainable Asset Management (SAM) Sustainability Yearbook



## Founding member of the Sustainability Consortium







## **Doing more with less** Decoupling economic growth from pollution and the use of natural resources

Pollution and the use of natural resources

Business as usual

Enzymatic and microbial solutions

Economic growth

Biotechnology enables us to do more with less

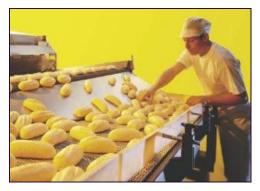
# Enzyme technology is green technology



Juice: better utilisation of raw materials



Mozarella production: better utilization of raw materials



Baking: less waste



Brewing: better utilisation of raw materials



Soy degumming: better

utilisation of raw materials



Livestock production: reduction of feed ingredients, reduction of pollution

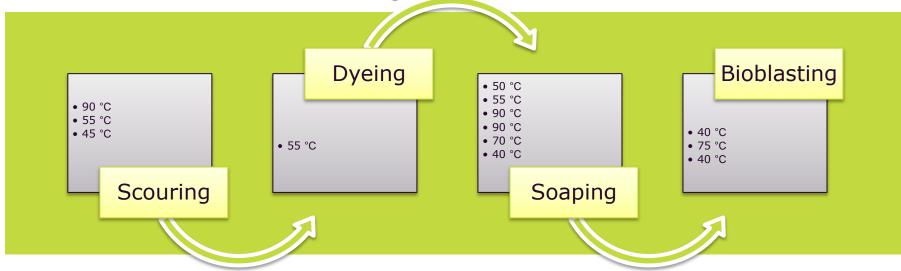


Leather production: reduction of chemicals

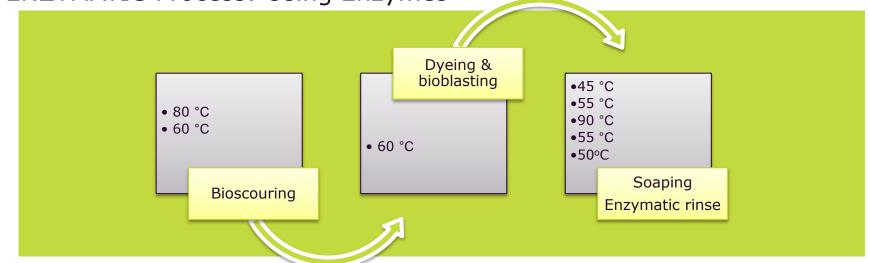
### ELEMENTAL TEXTILE: LCA Analysis



#### CONVENTIONAL Process: Using Chemical

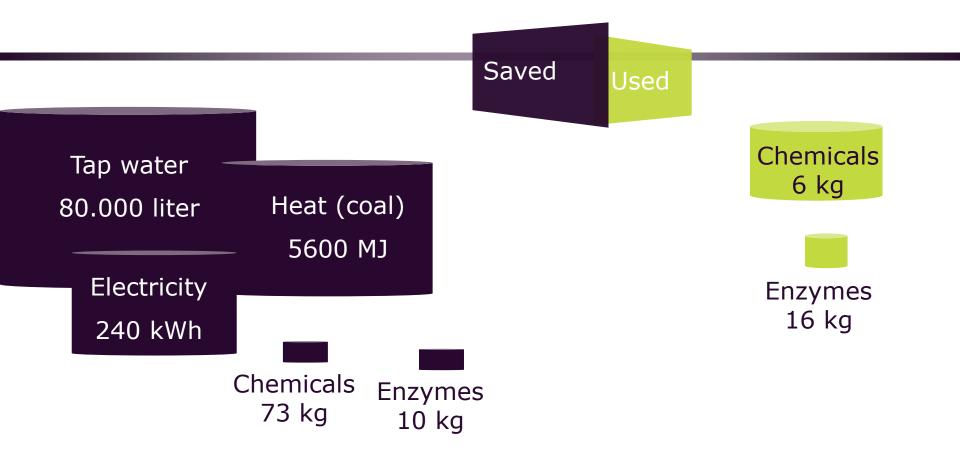


#### **ENZYMATIC Process: Using Enzymes**





#### PROCESS WITH ELEMENTAL TEXTILES - CONSUMPTION AND SAVINGS



All data refer to 1 ton of fabric



#### PERSPECTIVES

1 ton knitwear produced the with Elemental textiles saves:

• 70,000-90,000 liters of water (600-700 people daily consumption)

• 1 - 1.3 ton CO<sub>2</sub>

CO<sub>2</sub> saving corresponds to\_

100,000 ton CO<sub>2</sub> corresponds to the annual emission from Around 25,000 cars





#### OUR PRODUCTS HELP REDUCE CO<sub>2</sub> ACROSS INDUSTRIES

