

Transitory paths to a more sustainable textile value chain

The STS resulted from a cooperation.

Gherzi and two chairs from Chemnitz University of Technology worked together.



Dr. Andre Matthes

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Head of the chair Corporate
Environmental Management



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Head of the chair Textile
Technologies

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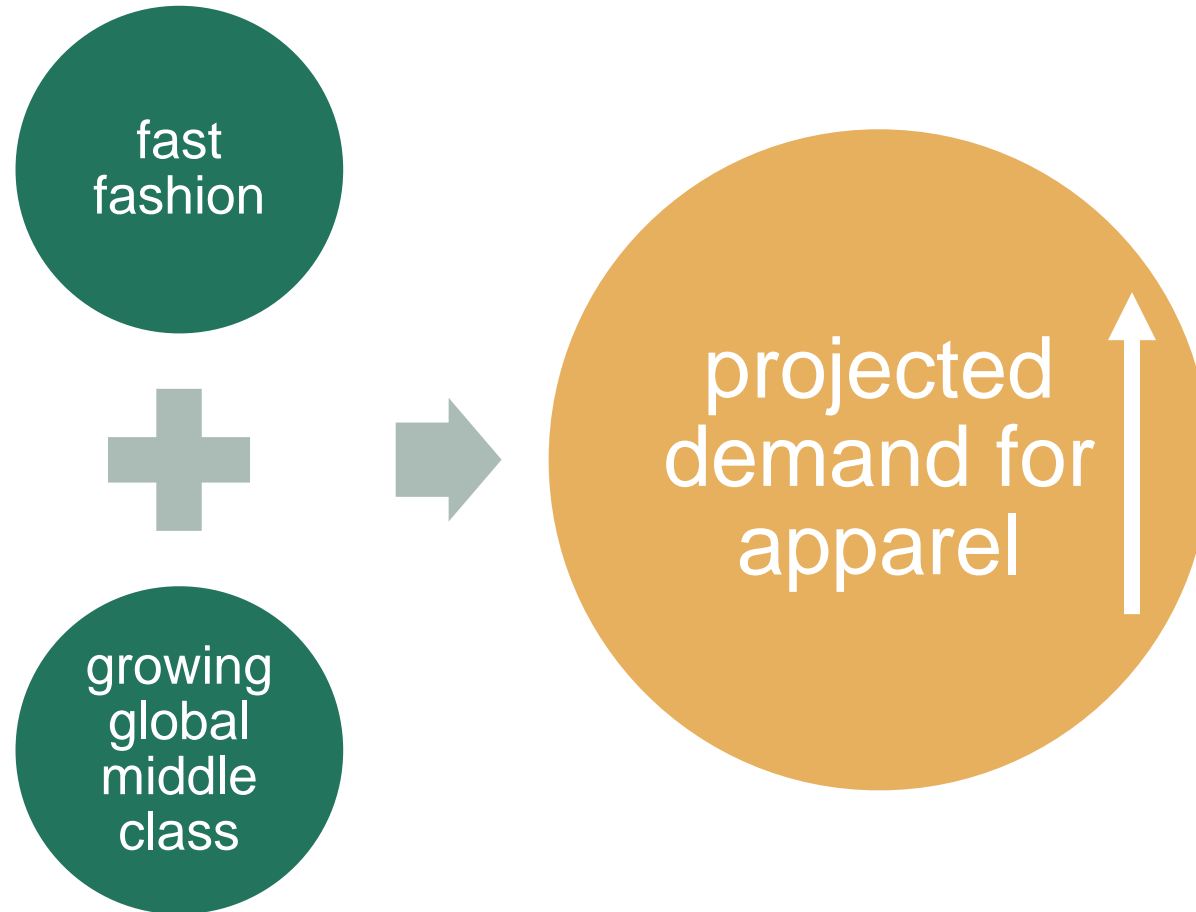
1. What we knew
2. What we did
3. What we learned
4. What we will do



What we knew.



The global demand for textiles will grow.



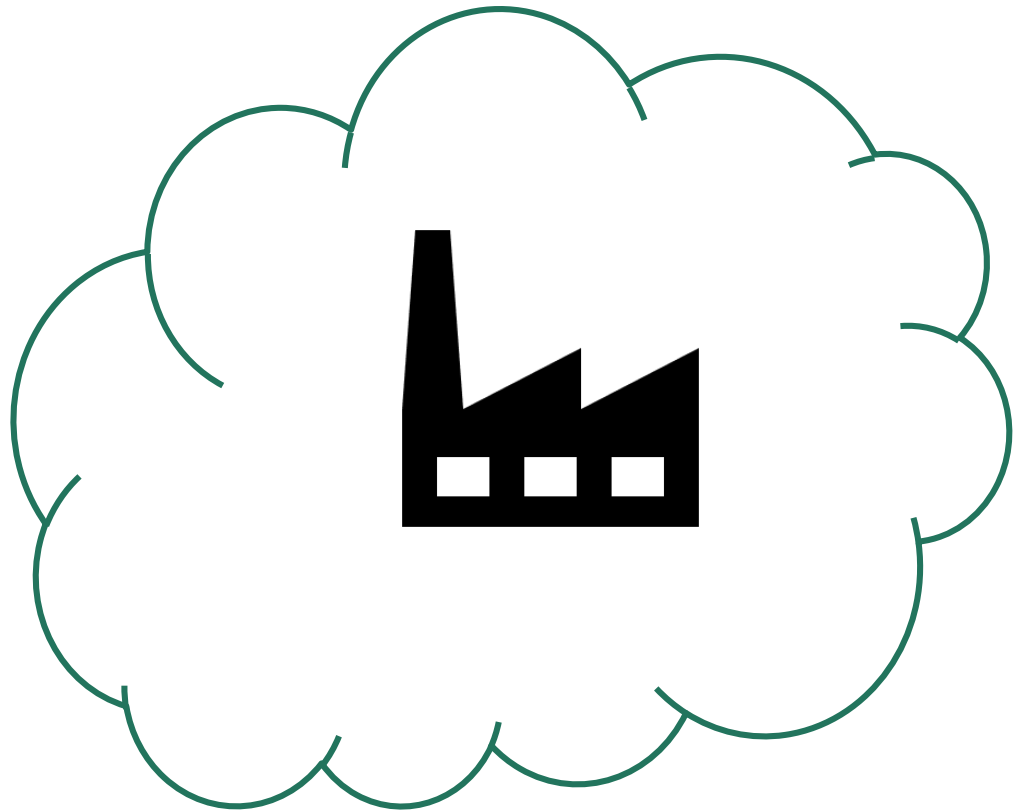
Problem I

The environmental and social impact of the textile industry often is disastrous.



Problem II

There is too little exchange between research institutes and the textile production industry.



Problem III

NGO's and consumers make a claim for more sustainable textiles and transparency.

Greenpeace publishes „Dirty Laundry” report

Greenpeace focusses on kids wear

Greenpeace focusses on kids wear

Greenpeace focusses on sports wear

Greenpeace focusses on cash and carry

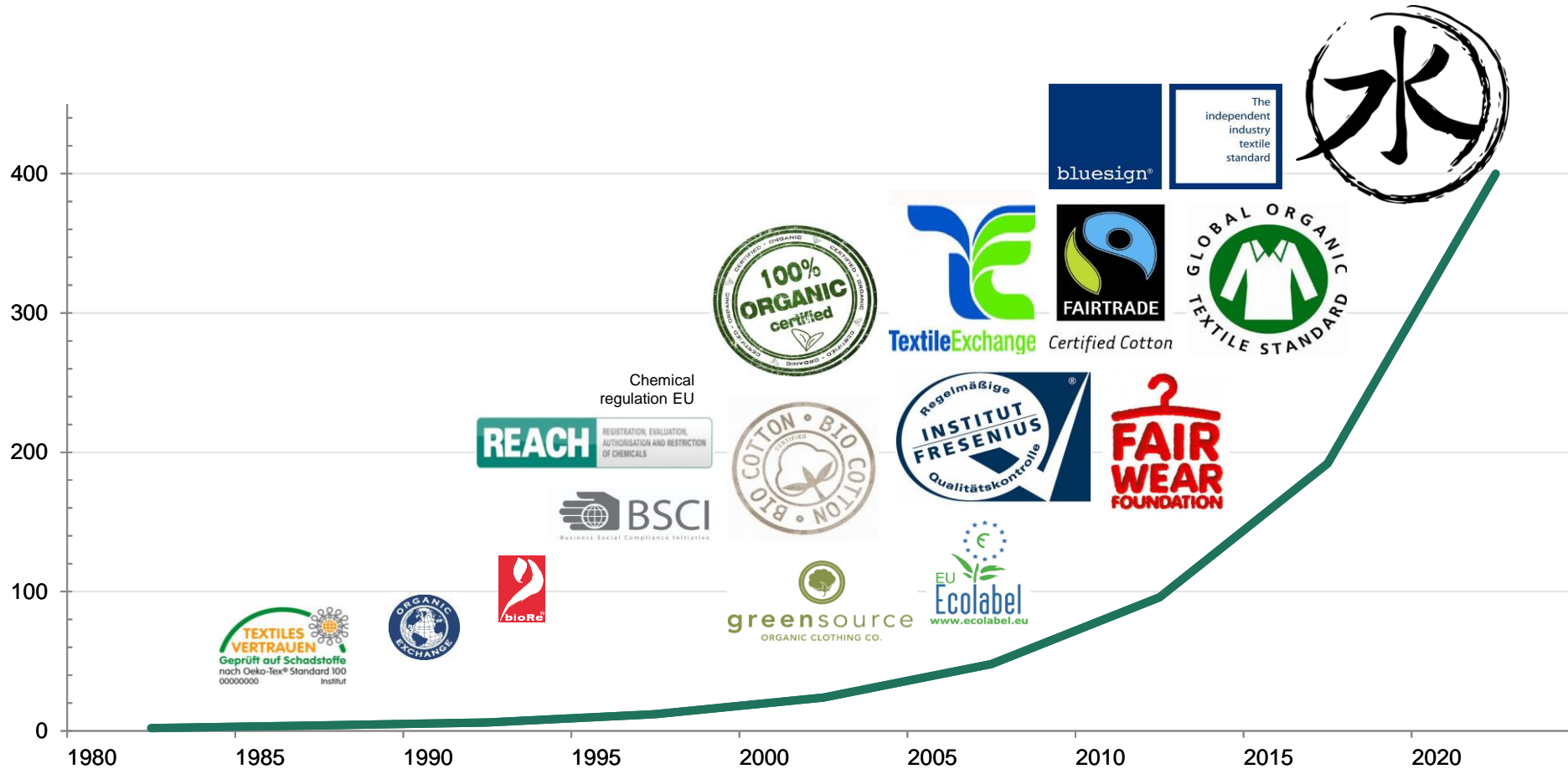
Greenpeace focusses weather-proof clothing

Next ...

Next ...

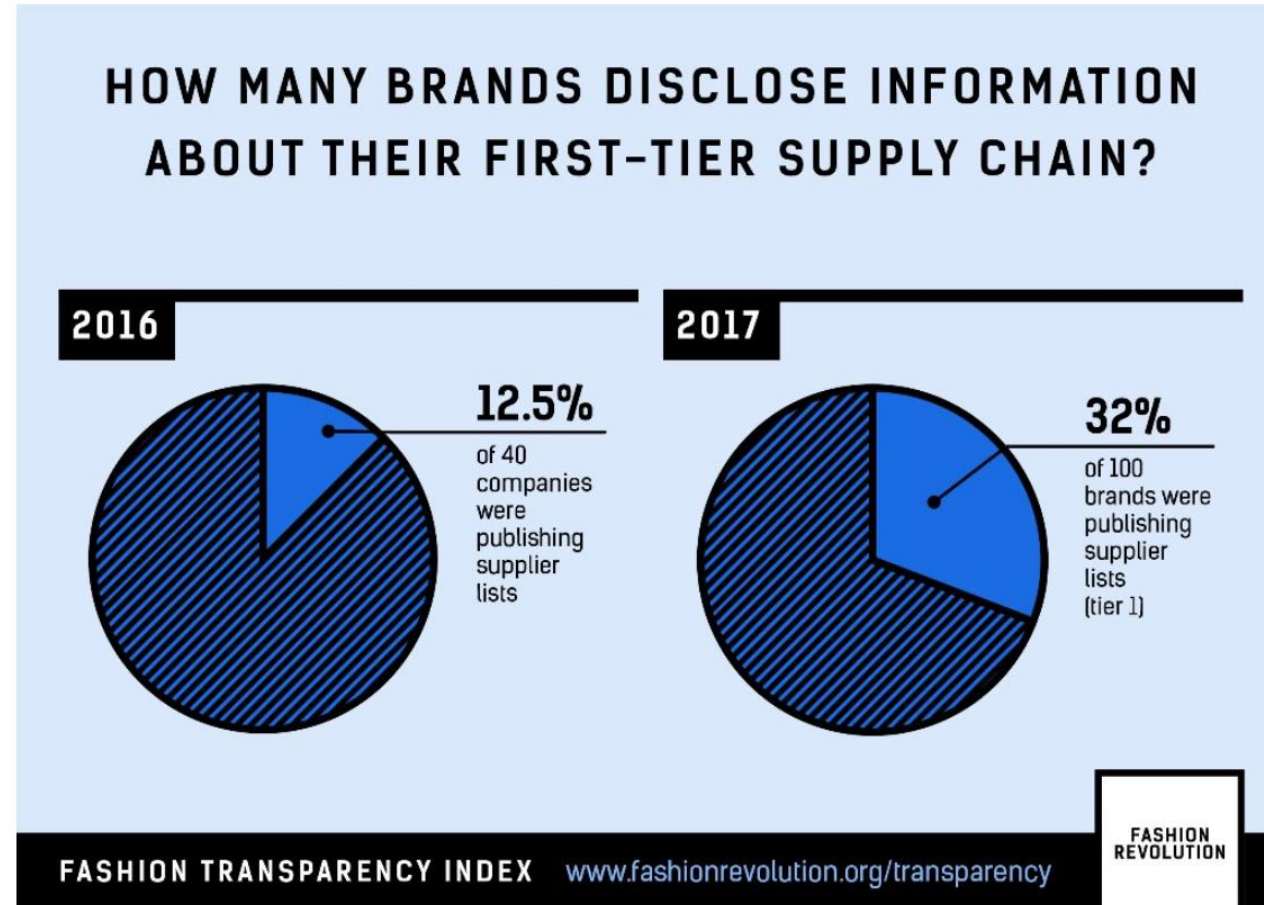
Problem III

NGO's and consumers make a claim for more sustainable textiles and transparency.



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NGO's and consumers make a claim for more sustainable textiles and transparency.



Conclusion I

Future business models must also focus on environmental and social aspects besides economical considerations.

Sustainable education for all players in global textile supply chain is needed.

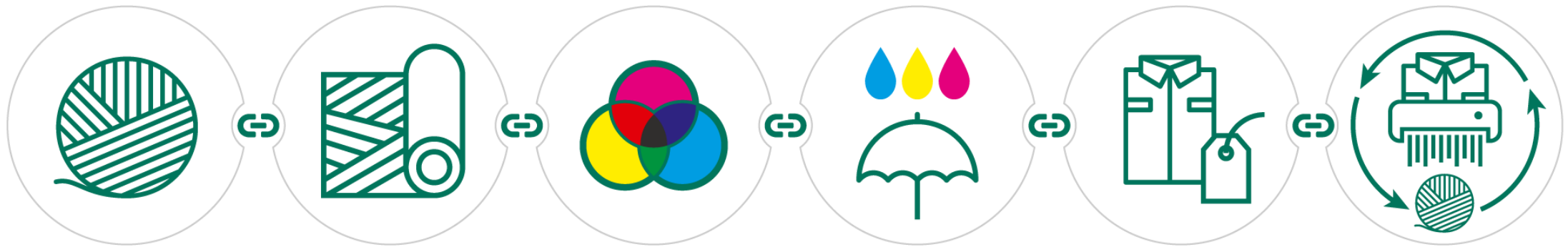


What we did.

Sustainable Textile School 2017 and 2018 in Chemnitz, Germany



Objective of Sustainable Textile School



Global textile engineering platform

Sustainability aspects from fiber to garment

Impressions of Sustainable Textile School



Impressions of Sustainable Textile School

Special event for the international students

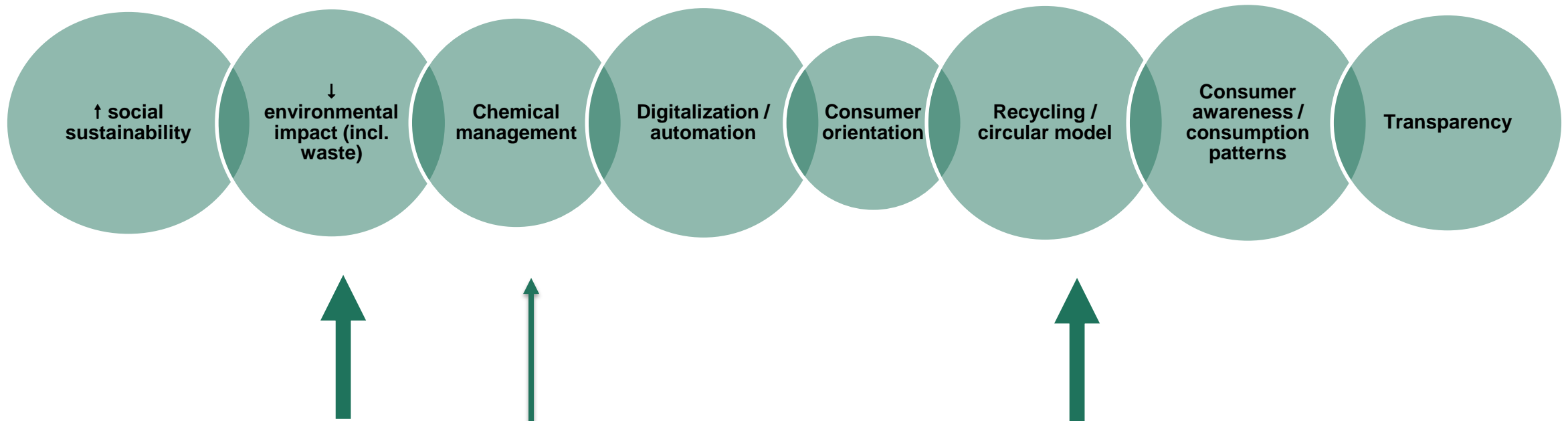


What we learned.



The textile industry of the future

... as predicted by our experts and participants



Chemical treatment is one of the main issues.

Sustainability issues have a game-changing impact on the industry.



Several speaker introduced ideas tackling the waste problem.

The textile chain doesn't end with the consumer's purchase.

- Recycling of PET waste (e.g. water bottles and marine litter):
Karla Magruder from Textile Exchange and
Markus Reichwein from oerlikon
- Recycling of textile waste:
Hélène Smits from Recover and
Traci Kinden from Circle Economy
- Cradle to cradle by Prof. Michael Braungart

Recycling leads to environmental benefits.

Recycling 1 kg of textiles can save ...

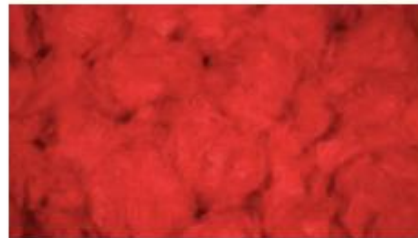


Source: Bureau of International Recycling

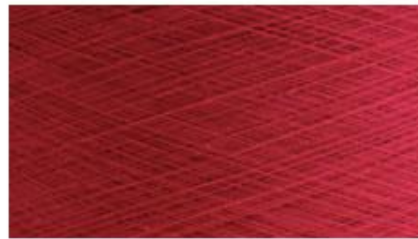


When it comes to upcycling innovative processes are needed.

recover[®] Fiber Upcycling.



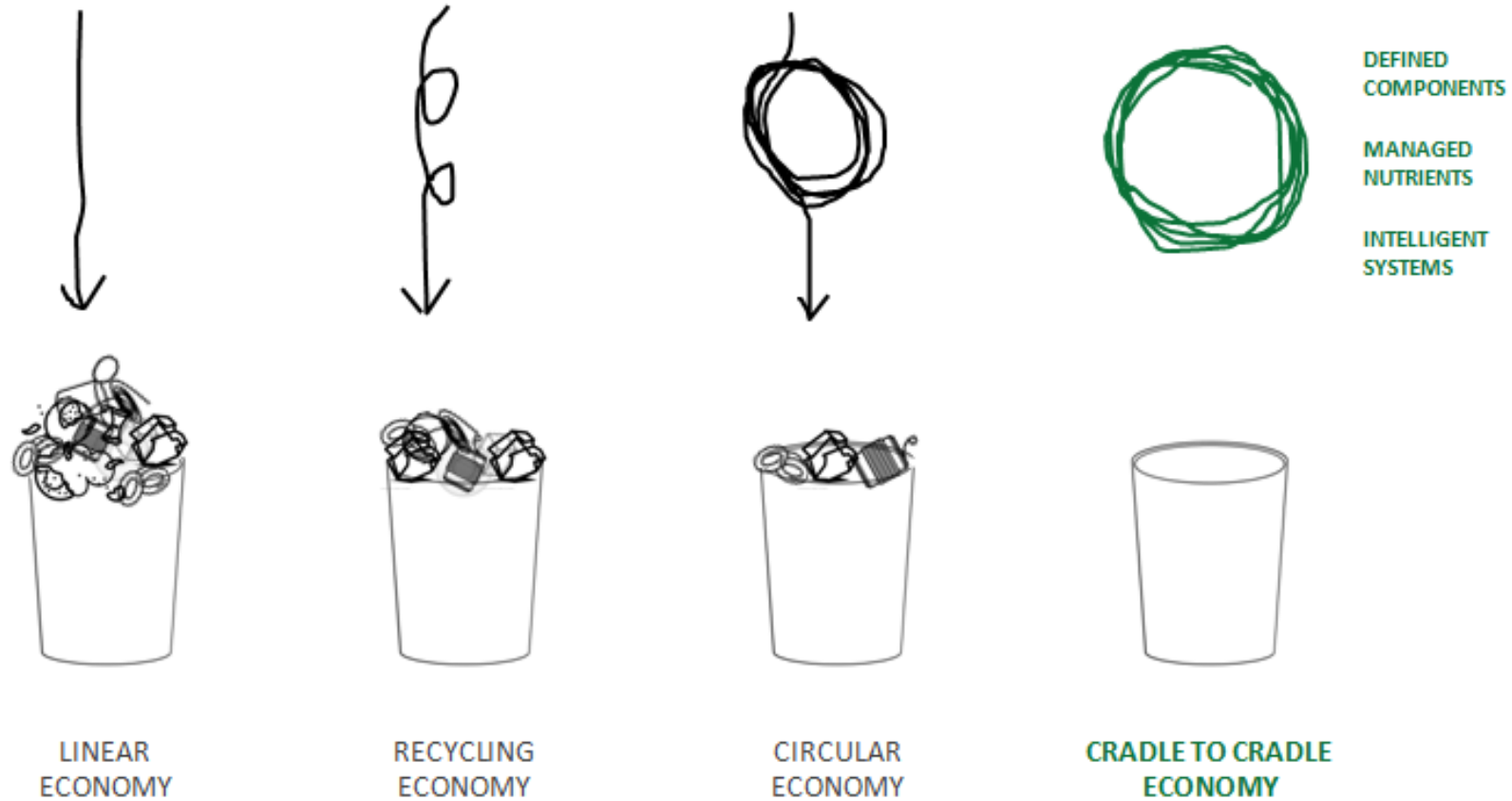
ColorBlend[®] Process.



2 resource-efficient processes combined to create accurate and unique colors with no dye or water applied to recover[®] upcycled cotton fibers.



Cradle to Cradle eliminates the concept of waste.



© Büro Braungart



Conclusion II

Sustainability is the new quality.



What we will do.

TEXTILE UNIVERSITY 4.0



In Zurich will be the next Sustainable Textile School.



 Sustainable Textile
School 2018

 GHERZI

**Thank you for
joining us.
See you all in
Zürich 2019!**





TEXTILE UNIVERSITY 4.0

Sustainable Engineering of the Circular Textile Chain.
Working Together to Promote Sustainability.

General

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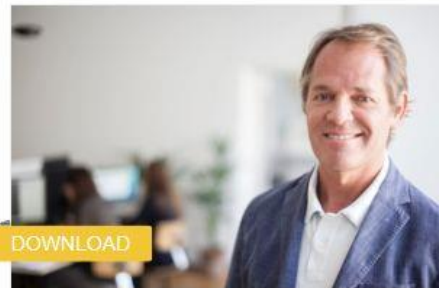
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Fabric & Transformation Day 1

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LAST DAY: KEY NOTE LORENZ WIED

LET US DESIGN THE FUTURE!!

PDF	PDF
Final Note Chair L...extile School 2017	CV Mag Lorenz Wied MBA 2016

0 5

Join us to be the architects of the textile future.



Join us to be the architects of the textile future.



THERE IS NO PLAN_{ET} B



Thank you!

Questions & Answers

Holger Cebulla

for direct communication please via
cebulla@sustainable-textile-school.com



Cradle to cradle design follows three principles.

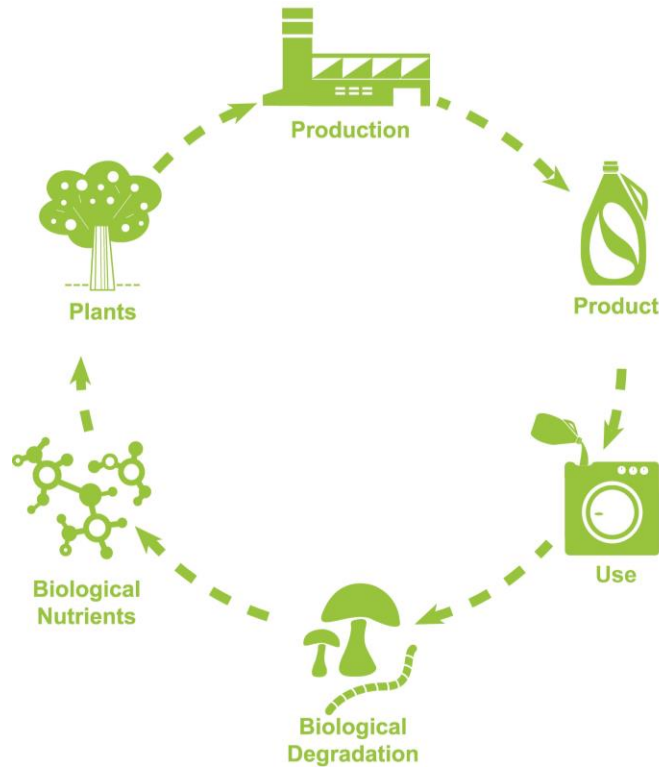
The principles derived from nature.

1. Waste is food.
2. Use renewable energy.
3. Celebrate diversity.

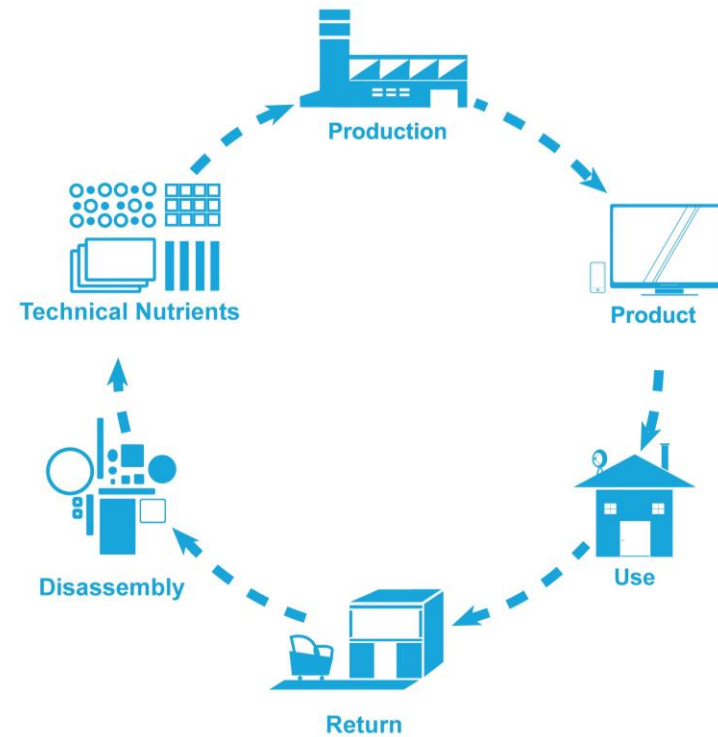


Nutrients circulate in closed-loop cycles.

Waste = food



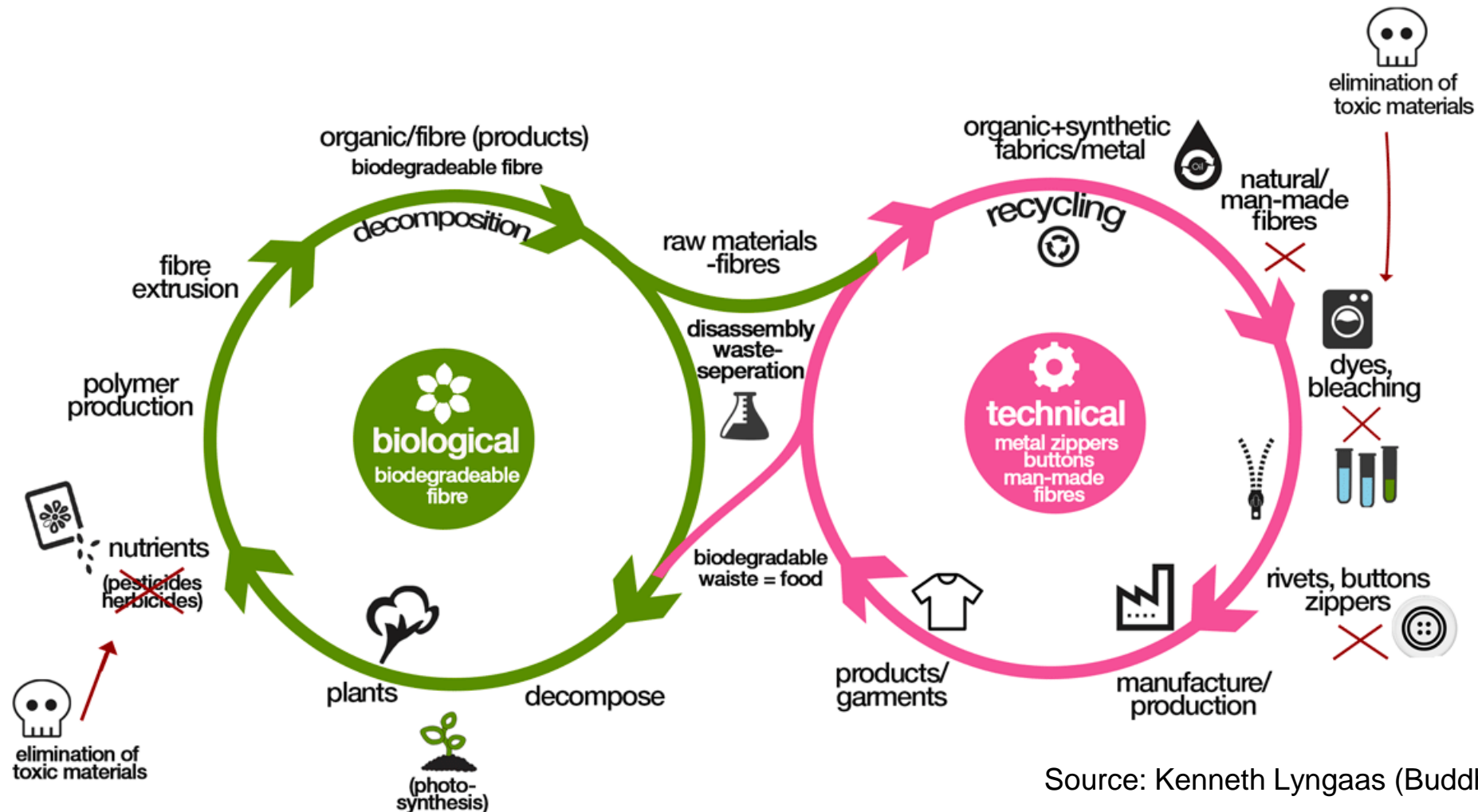
Biological Cycle
Consumption Products



Technical Cycle
Service Products

Source: www.c2cplatform.tw

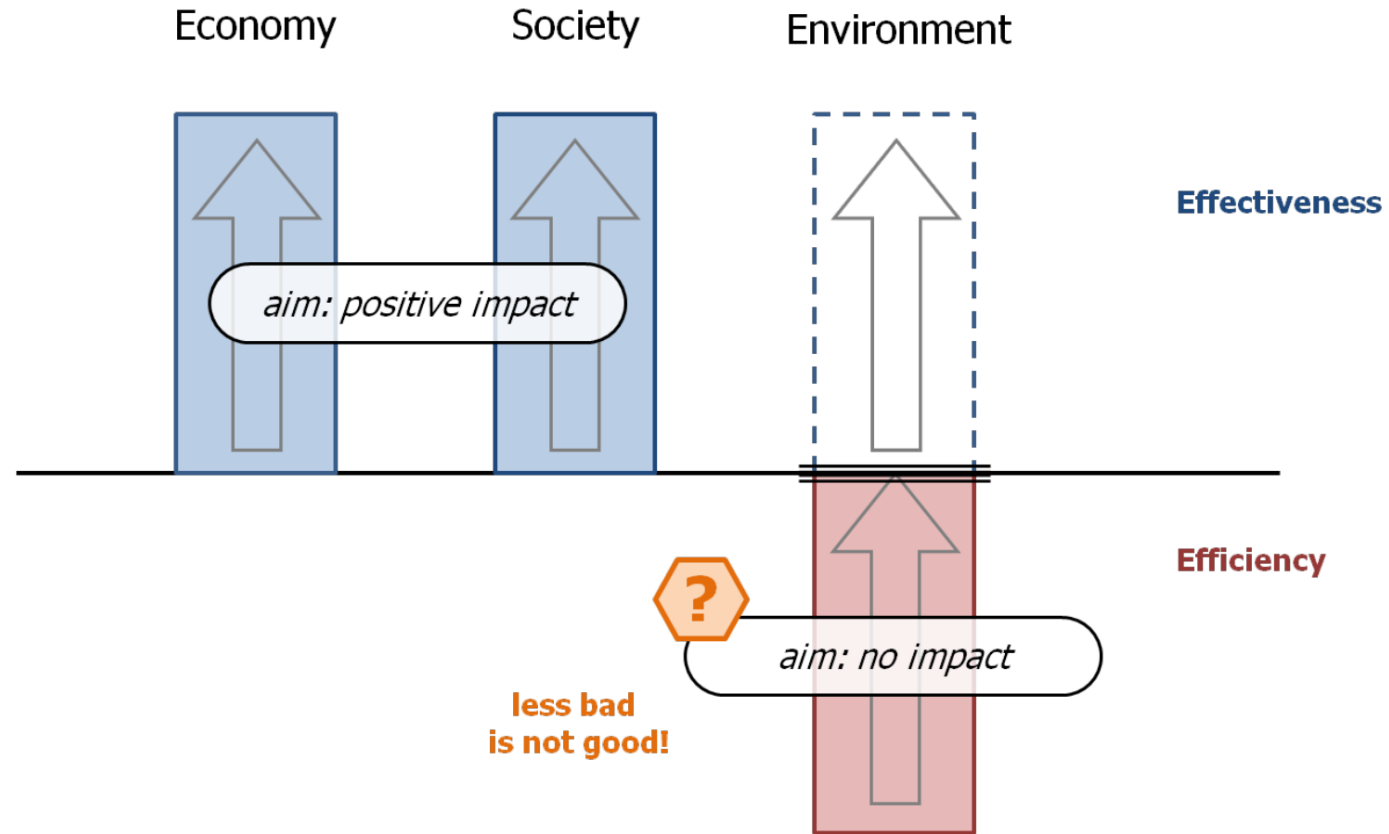
The idea can also be applied to the textile industry.



Source: Kenneth Lyngaas (Buddha Jeans)

Products shouldn't have no impact, but a positive impact.

The Tripple Bottom Line becomes a Tripple Top Line



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