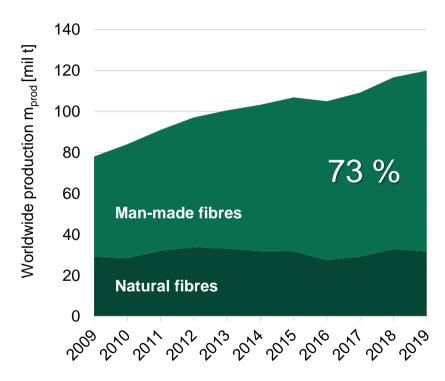


MOTIVATION

THE TEXTILE INDUSTRY IS CURRENTLY NOT SUSTAINABLE





Source: The Fiber Year 2020: World Survey on Textiles & Nonwovens



91 % of man-made fibres are petroleum-based



CONVERSION OF THE TEXTILE VALUE CHAIN FROM PETROLEUM-BASED TO BIO-BASED



Requires a bio-based raw material basis for plastics that is holistically sustainable



Requires the application in the textile industry from the biopolymer to the manufacturer of the complete textile

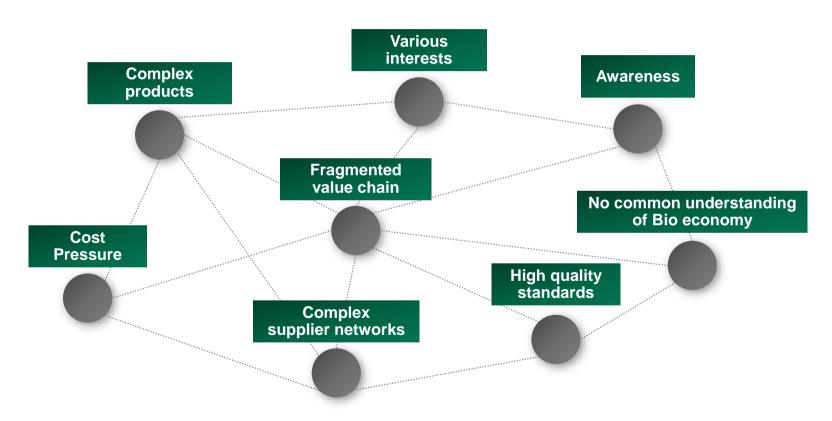


Requires the overall societal transformation towards bio economy from a social and economic perspective

CHALLENGES

THE TEXTILE INDUSTRY FACES MANY ENTRY BARRIERS





AIMS & APPROACH

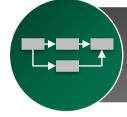


TO CHANGE THE TEXTILE INDUSTRY WE FOCUS ON THREE MAIN GOALS



Develop sustainable biobased feedstocks and raw materials

by funding basic research and improvements of existing sources



Develop holistically sustainable value chains

by facilitating a strong interaction between research project partners and stakeholders



Changing the textile economy towards bioeconomy

by creating awareness in society and industry

SCOPE OF BIOTEXFUTURE



THE INNOVATION SPACE IS ADDRESSING THE COMPLETE TEXTILE VALUE CHAIN



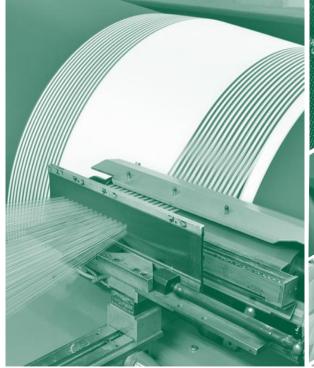
Gen. 3: Polymers from waste (i.e. PHB)



Gen. 2: Synthesized polymers (i.e. PLA)



Gen.1: Natural polymers (i.e. cellulose, starch)



Innovative Processes



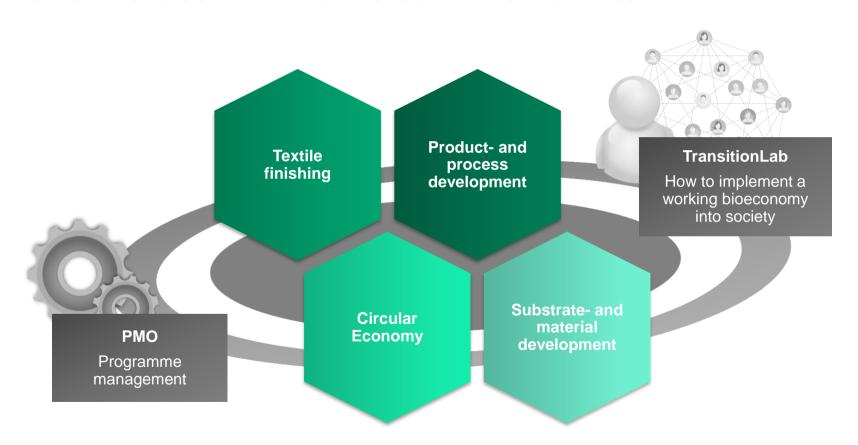
Novel Applications

Sustainable Resources

STRUCTURE OF BIOTEXFUTURE



THE TECHNICAL PROJECTS CAN BE ATTRIBUTED TO FOUR MAIN RESEARCH TOPICS







CONTACT THE PMO FOR FURTHER INFORMATION ON BIOTEXFUTURE

adidas AG

Future Team

Dr. Timm Wagner Adi-Dassler-Str.1 91074 Herzogenaurach timm.wagner@adidas.com RWTH Aachen University

Institut für Textiltechnik (ITA)

Thomas Köhler Otto-Blumenthal-Str. 1 52074 Aachen thomas.köhler@ita.rwth-aachen.de **RWTH Aachen University**

Lehrstuhl für Technik- und Organisationssoziologie (STO) Dr. Marco Schmitt Eilfschornsteinstr. 7 52062 Aachen mschmitt@soziologie.rwth-aachen.de The innovation space BIOTEXFUTURE is funded by the BMBF.

Further information can be found here: www.biotexfuture.de