

# CONVERT THE TEXTILE VALUE CHAIN FROM PETROLEUM-BASED TO BIO-BASED

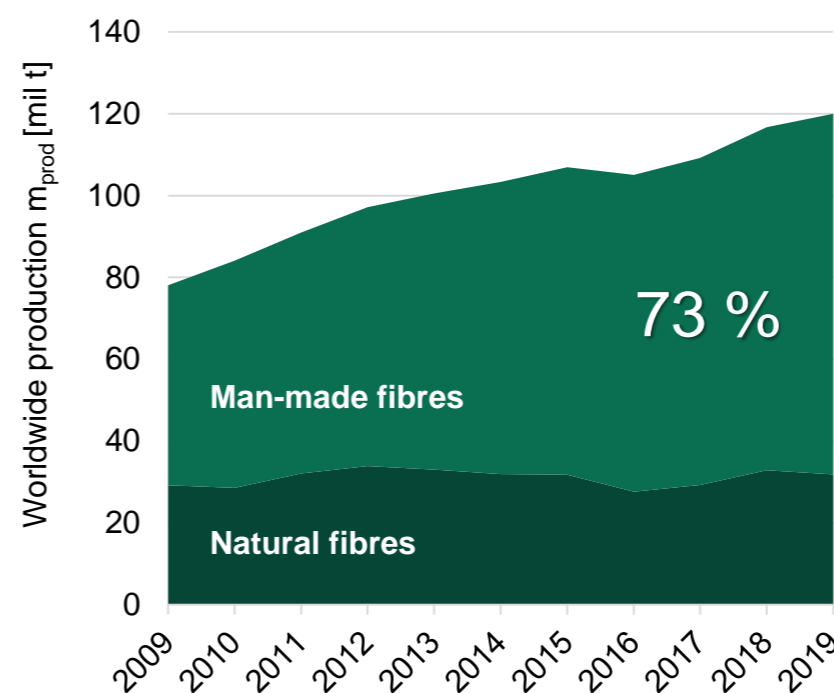
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## About

BIOTEXFUTURE is one of four innovation programs supported by the (German) Federal Ministry of Education and Research (BMBF) within the framework of the "Nationalen Forschungsstrategie BioÖkonomie 2030" through the funding measure "Innovationsräume Bioökonomie".

The Institute for Textile Technology at RWTH Aachen University, heads BIOTEXFUTURE together with the Institute for Sociology from a research perspective. adidas AG manages BIOTEXFUTURE from an industry perspective.

## Motivation



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

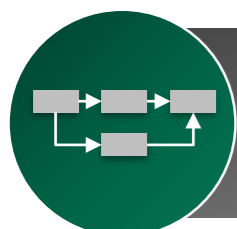


**91 %**  
of man-made fibres  
are petroleum-based

## Aim and Approach



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

## Contact

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## Scope

The BIOTEXFUTURE innovation program is a publicly funded research program consisting of several independent research projects that work together to achieve the overarching vision. The first projects cover the areas of substrate and material development, product and process development, textile finishing and recycling management. In addition, new projects – and thus also new partners – can be added during the term of BIOTEXFUTURE. Right from the start, the project portfolio also includes a transfer project to ensure the transfer of project results to society (e.g. by real laboratories) and a project management office to ensure professional programme management.



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

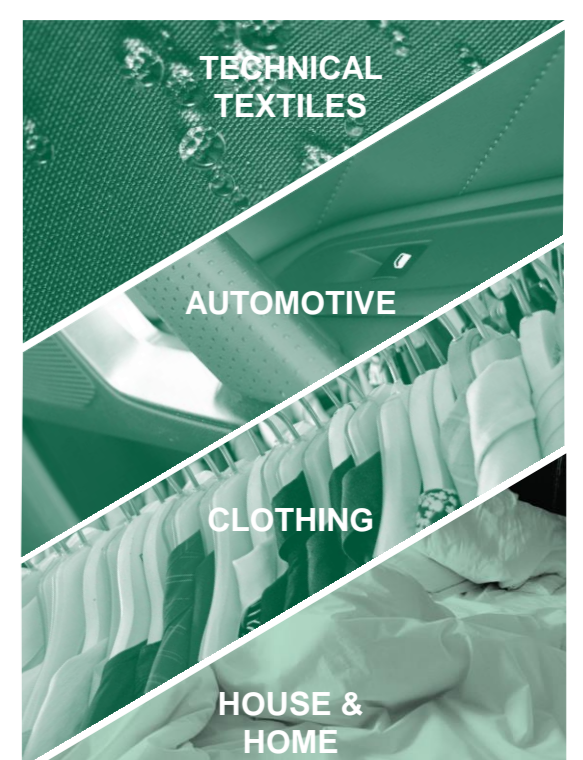


**Gen. 2:**  
Synthesized polymers  
(i.e. PLA)



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

Sustainable Resources



Novel Applications

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