

## **Green chemistry and textile innovation: the environmental product assessment**

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The textile industry is one of the world's largest industry sectors. In 2014, the share of textiles and clothing in the world merchandise trade was 4.3%, and in 2016, the textile world market surpassed 100 million tonnes. These figures give an indication of the potential magnitude of the environmental impacts of the textile sector, for which climate change, energy use, land use and water consumption are highly relevant environmental aspects. Another major environmental concern for the textile industry is the use of large amounts of chemicals in textile production processes and subsequent emissions of toxic substances. The focus of this speech is the inclusion of chemical products used in and chemical substances emitted from textile production processes in life cycle assessment (LCA).