





WasteDrive

Development of a fiberreinforced electric scooter
based on high-performance
natural fibers from
agricultural waste products

Our Network

Institut für Textiltechnik of RWTH Aachen University, Germany Prof. Dr. Thomas Gries | Ben Vollbrecht, M. Sc.

University of Dar es Salaam, Tanzania University of Mauritius, Mauritius

circular economy

Challenges

Unlike the glass fiber industry, where the basic raw material is equally distributed worldwide, Africa has the decisive advantage of having a highly innovative raw material at its disposal, which until now has been regarded as a waste product.

→ The leaves of pineapple plants

Project Objectives

- Development of new natural fiber material from agricultural waste products
- Unlocking a resource that is not yet in use
- Curriculum and teaching material for a seminar series about natural fiberreinforced composites





Good practices

- Regular online meetings
- Joint student supervision
- Practical training and hands-on experience for composite production
- Connecting people from research and industry to find further applications for new fiber material

Activities

Joint material development in which all partners can contribute their respective research focus and learn from each other

- Summer schools with theoretical and practical training (lecture and exercises)
- Research stays
- Networking and mediation of contacts in industry and business
- Joint supervision of student theses
- Joint publications
- Promotion of cross-divisional cooperation and expansion to include further research topics