

## Food&Feed – Textile-based cultivation concepts for food and feed in urban and maritime areas (Phase 1)

### Problem / Motivation

Global developments such as population growth, climate change, the reduction of arable land, and overfishing are motivating the formation of the network. Innovative ideas and solutions for novel production systems to supply the population with food on a regional basis are being developed. The network focuses on two UN sustainability goals: 1. Combating hunger by cultivating food using optimized concepts, and 2. Sustainable cities and communities through regional production of food and feed.



### Solution

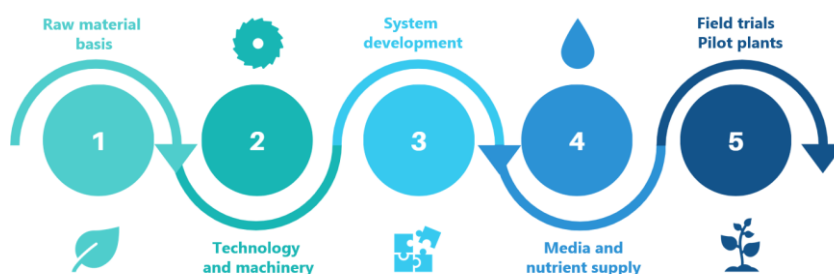
The aim of the network and the projects to be initiated is to develop sustainable production of food and feed on bio-based textile growth media under industrial conditions. Space-saving concepts are to be developed. Urban, indoor, and vertical farming technologies based on plant carriers in the terrestrial sector (salads, herbs, vegetables) as well as in aquaculture for algae and mussels will be implemented on the basis of an ecological recycling management. Climate-neutral cultivation and processing methods are being investigated for the agricultural production of fibre plants and their further processing into textile raw materials. The "Food&Feed" network will be established in Phase 1 with the participation of various network partners assigned to the development pillars shown below, and project ideas will be developed.

### Project Duration Phase 1

07/2025 - 06/2026

### Project Partners

11 SME from the mechanical engineering, agriculture, and biotechnology industries, 7 R&D institutions



Pillars of development within the network



Supported by:



on the basis of a decision by the German Bundestag

### Acknowledgement

We would like to thank the Federal Ministry for Economic Affairs and Energy for funding the research project Food&Feed (Reg. No. 16KN130101) within the funding programme "Zentrales Innovationsprogramm Mittelstand (ZIM)".

Contact: Sandra Döhler  
Romy Naumann  
Kareen Pfab  
Dr. Anna Große

Phone: +49 371 5274-286  
Phone: +49 371 5274-186  
Phone: +49 371 5274-197  
Phone: +49 371 5274-282

Email: [sandra.doehler@stfi.de](mailto:sandra.doehler@stfi.de)  
Email: [romy.naumann@stfi.de](mailto:romy.naumann@stfi.de)  
Email: [kareen.pfab@stfi.de](mailto:kareen.pfab@stfi.de)  
Email: [anna.grosse@stfi.de](mailto:anna.grosse@stfi.de)

[www.stfi.de](http://www.stfi.de)