

## RUBIO2value – Process development, scale-up for nonwoven and textile manufacturing

### Problem / Motivation

- Building on the research results at TRL6 in former project RUBIO, the goal is now to achieve commercial implementation in application areas such as agricultural textiles and geotextiles
- Main aim is the processing of PBS materials (granules, film, spunbond nonwovens, ribbons) into finished textile products up to TRL8



### Solution

- Integration and testing of scaled-up processes into the value chain
- Further developing straw bale netting, planting mats, filter media, and headliners to make them market-ready on an industrial scale
- Conducting studies on biodegradability and testing for usability and functionality in field trials
- The transfer objectives are to impart the necessary theoretical and practical know-how, to stimulate market interest, and thereby to promote the interdisciplinary exchange of experience

### Project Launch

12/2025

### Project Partner

Fraunhofer IMWS, Halle

Exipnos GmbH und Polykum e.V.,  
Merseburg

Technitex Sachsen GmbH,  
Hohenstein-Ernstthal



*A Vision for the Future of Polybutylene Succinate Production and Use*

### Acknowledgement

We would like to thank the Federal Ministry for Economic Affairs and Energy for funding the research project „RUBIO2value“ (Reg. No. 13BDC90021) within the funding programme „Industrielle Bioökonomie“.

Supported by:



on the basis of a decision  
by the German Bundestag