Sächsisches Textilforschungsinstitut e.V.

Affiliated institute of the University of Technology Chemnitz

Managing Director: Dr. Heike Illing-Günther

Annaberger Straße 240 | 09125 Chemnitz | Germany | Phone: +49 371 5274-0 | Email: stfi@stfi.de | www.stfi.de

RoboKidz – Robotics and camera technology in data-centric systems for applications in the textile industry

Problem / Motivation

- Smaller batch sizes and increasing variety of textile products are creating a need to increase the efficiency of production processes
- Market demand for robotics, AI, and image processing applications in the textile industry
- Lack of time or personnel capacity, as well as lack of knowledge or expertise

Solution

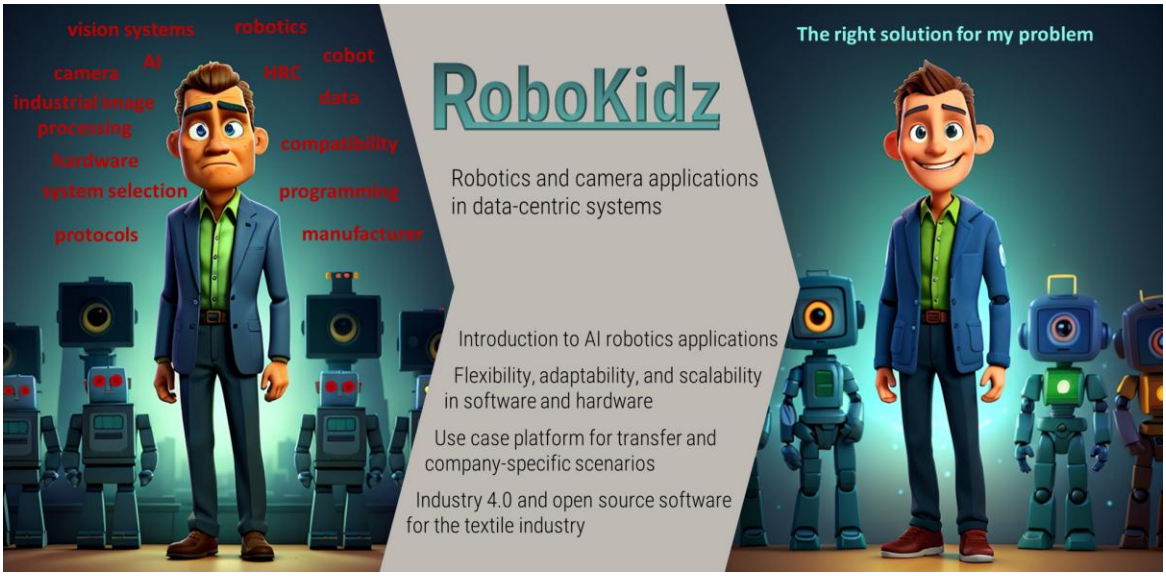
- Use of robotics, industrial image processing, artificial intelligence, and open source combined with the reduction of barriers to entry
- Open source basis (open source and freely accessible) as a sustainable solution
- Use case platform for transfer and specific scenarios for applications in the textile industry

Project Launch

07/2025

Project Partner

Available for inquiries



Overview diagram of the research project RoboKidz, Photo: AI-generated

Acknowledgement

We would like to thank the Federal Ministry for Economic Affairs and Energy for funding the research project RoboKidz (Reg. No. 49MF250018) within the funding program "Förderung der Innovationskompetenz mit gemeinnützigen Industrieforschungseinrichtungen – INNO-KOM 2023 Modul – Marktorientierte Forschung und Entwicklung (MF)"

INNO-KOM

Supported by:

Federal Ministry for Economic Affairs and Energy

on the basis of a decision by the German Bundestag

Contact: Dipl.-Ing. Falko Schubert Phone: +49 371 5274-292 Email: falko.schubert@stfi.de

Dipl.-Wirtsch.-Ing. Andreas Böhm Phone: +49 371 5274-283 Email: andreas.boehm@stfi.de