

KIMERATEX – Development of a vibe-coding platform for creating model-based extended reality applications

Problem / Motivation

- Extended Reality (ER) technologies are technologies used to augment reality with digital content, for example, via smartphones, tablets, smart glasses, or mixed reality headsets
- Within the scope of the project, Extended Reality encompasses assisted reality, augmented reality and mixed reality
- The project focuses on cross-machine and location-independent processes within dynamic manufacturing environments characterized by fluctuating workforces
- It addresses processes requiring mobile displays that provide information tailored to the specific user, language, context and proficiency level
- Textile companies are calling for a tool to create ER applications that is cost-effective, vendor-independent, easy to learn, streamlined, lightweight and versatile

Solution

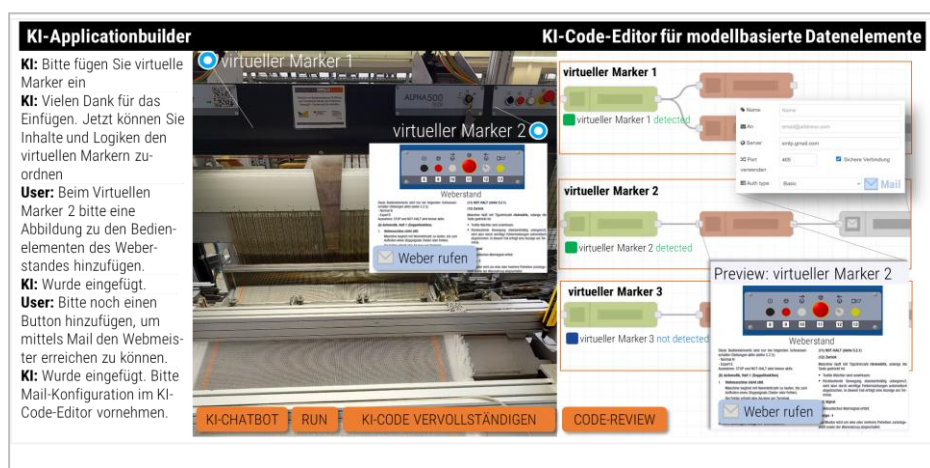
- Development of a specialized, generative "vibe-coding" AI platform based on open technologies for creating Extended Reality web applications for diverse textile production environments
- Empowering production-floor staff – without IT expertise – to independently design Extended Reality applications through the use of generative AI and model-based data workflows

Project Launch

04/2026

Project Partner

Available for inquiries



Outlined user perspective of the KIMERATEX platform based on an example scenario

Acknowledgement

We would like to thank the Federal Ministry for Economic Affairs and Energy for funding the research project KIMERATEX (Reg.-Nr. 49MF250093) within the funding program "Förderung der Innovationskompetenz mit gemeinnützigen Industrieforschungseinrichtungen – INNO-KOM 2023 Modul – Marktorientierte Forschung und Entwicklung (MF)".

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Supported by:



on the basis of a decision
by the German Bundestag