

PRESS RELEASE

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Shaping the Digital Transformation Sustainably

»Open Digitization Alliance Palatinate« Enters Second Round

The successful collaboration continues: The joint project »Open Digitalization Alliance Palatinate« (ODPfalz) of the Fraunhofer Institute for Industrial Mathematics ITWM, the Kaiserslautern University of Applied Sciences and the Technical University of Kaiserslautern is entering its second funding phase. During this period, the researchers will focus in particular on the societal challenges of digitalization. The federal-state initiative »Innovative University« will fund the OD Pfalz with 15 million euros over the next five years.

The OD Pfalz joint project is shaping the digital transformation in an interdisciplinary manner for specialist areas of high economic and social relevance, thereby creating a distinctive culture of innovation. The central goal of the project: to support digitization in the innovation areas of education, health, vehicles, products, and creativity and cooperation.

Making Kaiserslautern Mobile

Fraunhofer ITWM is also back in the second funding phase and has exciting new plans and ideas. »We see the approval of the follow-up application as further confirmation of our long-standing and successful cooperation with Kaiserslautern University of Applied Sciences,« says a pleased Dr. Klaus Dreßler, head of the department »Mathematics for Vehicle Development.« »Above all, our technical center, where we work closely with users, is a key success factor here.«

The institute contributes knowledge and experience in the transportation and mobility segment: The researchers develop sustainable solutions based on digital images of the environment, vehicles and complex processes. The experts are striving to optimize transportation systems, such as public transportation, and to improve the distribution of charging stations for electric cars. The researchers are also looking at the energy efficiency of the vehicles themselves. The ITWM employees see exciting new possibilities for improvement in the inclusion of a 5G infrastructure.

The concrete implementation scenarios, including traffic flow planning and the optimization of the public transport networks in Kaiserslautern, will be identified and selected by the start of the project in 2023.

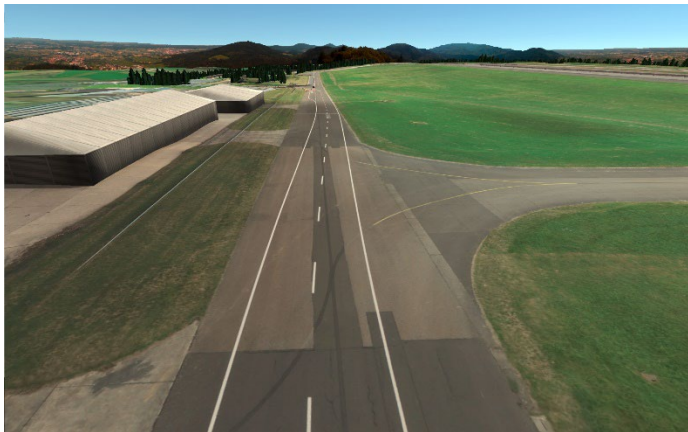
Visuals

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Digitization of environmental data: Automotive Test Center Pferdsfeld. Real photo. © Fraunhofer ITWM



Digitization of environmental data: Automotive Test Center Pferdsfeld. Digital mapping of the environment. © Fraunhofer ITWM

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About the Fraunhofer Institute for Industrial Mathematics ITWM

The Fraunhofer Institute for Industrial Mathematics ITWM in Kaiserslautern is one of the largest research institutes for industrial mathematics worldwide. We see our task in further developing mathematics as a key technology and providing innovative impetus. Our focus is on the implementation of mathematical methods and technology in application projects and their further development in research projects. The close cooperation with partners from industry guarantees the high practical relevance of our work.

Their integral components are consulting, implementation and support in the application of high-performance computer technology and the provision of tailor-made software solutions. Our various competencies address a wide range of customers: automotive industry, mechanical engineering, textile industry, energy and finance. This also benefits from our good networking, for example in the High performance center "Simulation- and software-based innovation".