



R&D projects

- › Organization of workshops
- › Exchange of knowledge, technology, contacts and ideas
- › Development of project concepts
- › Formation of project consortia
- › Selection of suitable funding
- › Coordination with the funding agency
- › Support of ongoing projects
- › Direct access to the cluster members and partners

Marketing and PR

- › Articles about the network on the website, social media, in flyers, newsletters and in relevant media
- › Organization of trade fair booths
- › Organization of workshops, e.g. with potential users
- › Networking events with partners
- › Use of the online job market and the TechBase's very own Job Wall

CONTACT

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GET INVOLVED!

The network welcomes new project partners, who want to find innovative solutions together with other companies and research institutions. Please feel free to contact us if you need any further information.

May 2020

NETWORK SEDIPET



SECURE
DIGITAL
PERFORMANCE
TWIN

Project executing organization:
VDI/VDE Innovation & Technik GmbH

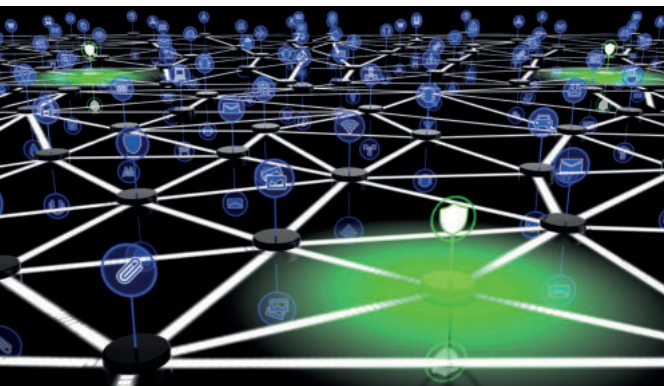


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IT-LOGISTIK-BAYERN.DE/SEDIPET



NETWORK SEDIPET GOALS

The goal of the network SeDiPeT (Secure Digital Performance Twin) is to provide secure solutions for the digital product memory - covering an important aspect of the Digital Twin technology. A digital product memory continuously collects all data, information and properties of a product. Therefore, it allows traceability of the entire product life cycle. The solutions developed in the network SeDiPeT are specifically designed for the requirements of small- and medium-sized companies from the manufacturing sector.

GOALS

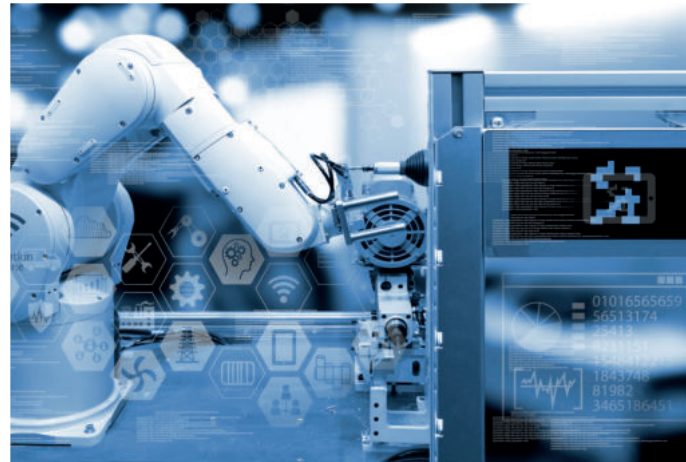
The network SeDiPeT places its emphasis on the development of secure hardware and software systems for digital twins in the context of industry 4.0. Digital twins describe virtual representations of a product (Digital Product Twin), its production (Digital Production Twin) or its performance (Digital Performance Twin). Digital twin technologies are enabled, among other things, by the increasing use of the Internet of Things (IoT) in digitized industrial production networks and through cloud-based structures that link the physical with the digital world.



Michael Strobel
Project manager
IT-Logistikcluster



NETWORK SEDIPET ACTIVITIES



KEY TOPICS AND PROJECTS

Within the network, experts from various fields come together in joint research projects to develop innovative solutions focussing on the following key topics:

Key Topic 1 | Secure Industrial Authentication & Communication

A secure communication is the foundation for the further processing of data. A large part of the R&D efforts within the network, therefore, focuses on providing secure solutions for industrial authentication and communication.

Key Topic 2 | Secure Industrial Cloud

The aggregation of more and more data from different sources requires dynamic ways of data provision and processing. Cloud-based approaches provide the necessary computing power to use data profitably. For this reason, the partners within the network will develop secure industrial cloud solutions for intelligent data processing and for building digital twins.

NETWORK SEDIPET PARTNERS

COMPANIES

- › ambos.io GmbH
- › Consolinno Energy GmbH
- › EasyLogix - Schindler & Schill GmbH
- › Hofmann Leiterplatten GmbH
- › Nexis GmbH
- › ProtectEM GmbH
- › Segusoft GmbH
- › SYSTEMA GmbH
- › XignSys GmbH

RESEARCH INSTITUTIONS

- › DIT - Deggendorf Institute of Technology
- › FZI Research Center for Information Technology, Karlsruhe Institute of Technology (KIT)
- › if(is) - Institute for Internet Security, Westphalian University of Applied Sciences
- › Technical University of Munich, Chair of Application and Middleware Systems
- › University of Regensburg, Chair of Information Systems

COOPERATION PARTNERS

- › gesinn.it GmbH & Co. KG
- › rBITech GmbH

