Hannover Messe 2019
Hessian joint company booths
1.-5. April 2019 | Hannover, Germany
Hall 5, Booth G18 + Hall 6, Booth A24
HANNOVER MESSE regarded as the showcase of innovative industry worldwide. It shows how digital technologies are revolutionizing the industry and how forward-looking business models are emerging. Digitization is the opportunity of our time to strengthen Hessen as an industrial and technological location at the highest level and to expand it with completely new processes.

For this reason, the Hessian state government supports in particular science and technology transfer, entrepreneurial research and development and above all small and medium-sized enterprises in the digital transformation with tailor-made funding offers.

Due to the increased interest in HANNOVER MESSE, Hessen will be present this year with two booths. Hessian companies, institutions and start-ups in the area of Industry 4.0 impressively demonstrate the capabilities of Hessen as a technology and business location. Details can be found on the following pages.

Visit us in Hall 6 A24 and Hall 5 G18.
We look forward to seeing you.

Prof. Dr. Kristina Sinemus
Hessian Minister for
Digital Strategy and Development
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Hessen Trade & Invest GmbH (HTAI) is the economic development company of the State of Hessen. Its central task is to secure and increase the competitiveness of Hessen as a business and technology location. The HTAI offers a unique strategic combination of technology and innovation promotion, location marketing and investor support, foreign trade as well as advice on EU funding programmes. It is the central point of contact for companies as well as for scientific, political and social institutions.

Under the Technologieland Hessen brand, HTAI bundles measures for technological innovations on behalf of the State of Hesse and supports the Hessian economy in the development, application and marketing of relevant future and key technologies.

www.htai.de
www.invest-in-hessen.com
www.technologieland-hessen.de
THE DIGITAL HESSEN STRATEGY

Digitization networks people and machines and generates a cosmos of data, the automated evaluation of which enables completely new applications. These include a climate-friendly energy system, sustainable mobility, more efficient production and much more.

Hessen sees digitization as a design task and an opportunity. The Digital Hessen Strategy therefore aims to expand Hessen’s position as a leading European digital region and thus sustainably strengthen the state’s prosperity, quality of life and economic development.

On behalf of the State of Hessen, the Digitales Hessen office supports the implementation of the Digitales Hessen Strategy in the operational area. It is part of the Digitization competence area of Hessen Trade & Invest GmbH, the economic development company of the state of Hessen.

Important tasks in this context are:

- Coordination and control activities for the Digital Hessen Strategy
- Stakeholder networking
- Advice and support for institutions and companies
- Support and supervision of innovation projects
- Technology transfer and thematic scouting
- Preparation of studies and guidelines
- Event organization
- Communication and public relations work
- Monitoring

You can find further information at www.digitalstrategie-hessen.de
NETWORKS AND FUNDING

DIGI — Check

DIGI — Beratung

DIGI — Zuschuss

https://www.digitalstrategie-hessen.de/foerderung
DIGITIZATION AND RESOURCE EFFICIENCY

Digitization offers considerable opportunities for more resource efficiency. Companies that intelligently control and network their processes can save raw materials and costs. Digitization also enables completely new resource-efficient production processes and business models. It is therefore worth thinking about resource efficiency and digitization together from the outset.

In Hessen, the topic of resource efficiency is part of the Digital Hessen Strategy. Companies can use Digi-Check to determine where they stand in terms of digitization and resource efficiency (www.digitalstrategie-hessen.de/digicheck).

The state and EU-funded PIUS Consulting and PIUS Invest programmes promote measures for resource efficiency and production-integrated environmental protection (PIUS). Small and medium-sized enterprises receive grants for consultancy and investments which help them to permanently reduce their consumption of energy, water, raw materials and supplies.

www.technologieland-hessen.de/ressourcen-umwelt
IT IN BIOTECHNOLOGY AND MEDICAL TECHNOLOGY

Personalized Medicine - Information Technology as the Key

With personalized medicine, a new segment in the pharmaceutical market is becoming increasingly important. This new generation of medicine enables increasingly targeted treatment of patients. Information technology (IT) plays a decisive role here: data must be stored from a wide variety of sources and contexts, sorted in a targeted manner and made available to the right person in the right context at the right time and in the right place so that this person can make individual decisions. Data mining and IT-supported knowledge management, which enable archiving, thematic structuring and targeted consolidation of knowledge about the patient and his illness, are of great importance. IT, which was initially used almost exclusively as an administrative tool, is increasingly penetrating and influencing medical processes. Examples of this are the integration of mobile applications and personalized medicine.

www.technologieland-hessen.de/life-sciences-biooekonomie
ADDITIVE MANUFACTURING - GETTING A HEAD START WITH 3D-PRINTING

Sometimes referred to as 3D-printing, additive manufacturing processes offer improved flexibility in construction and production. They create new business models and change production processes. Combining innovative production methods with modern information technology opens great potential for companies in global competition. Especially in application and research, Hessian companies are well established in this innovative market. In production, additive manufacturing already plays an important role: Printing lampshades or parts for the automotive or building industry is everyday business. Even complex components for industrial machines are being printed. Moreover, large-scale production is possible using metals or plastics as printing materials. The competitive edges of such miniaturized plants are at hand:

- Additive manufacturing qualifies for constructing prototypes and individualized products as well as for series-production.
- Customization of the construction data is possible anytime.
- New designs can be realised fast; therefore, the automotive industry uses additive manufacturing for new prototypes and tools.

The competence fields for production and for material technologies of “Technologieland Hessen” offer networking, consulting, informative events and brochures to make this topic easily accessible and connect suppliers with users.

www.technologieland-hessen.de/produktion
www.technologieland-hessen.de/materialtechnologien
The National Research Center for Applied Cybersecurity CRISP is an institution of the Fraunhofer-Gesellschaft for its two Darmstadt-based institutes SIT and IGD, in cooperation with Technische Universität Darmstadt and the Darmstadt University of Applied Sciences. Already today, CRISP is the largest cybersecurity research center in Europe. The hitherto unique cooperation between universities and non-university research facilitates cutting-edge research to the benefit of society, business and government. The highly application-oriented profile of CRISP includes technological transfers and startups as well.

CRISP is being funded by the Federal Ministry for Education and Research (Bundesministerium für Bildung und Forschung (BMBF)) and the Hessian Ministry for Science and Art (Hessisches Ministerium für Wissenschaft und Kunst (HMWK)). The construction of CRISP is an outstanding success for the Darmstadt site and the state of Hesse. More than 10 years ago, the Hessian state government set the strategic course for this successful development with its LOEWE initiative.

www.crisp-da.de
DIGITAL SME COMPETENCE CENTER DARMSTADT

We support small and medium-sized enterprises (SMEs) in the digitization of their production and business processes. The spectrum ranges from orientation and qualification to individual support in the implementation of tangible solutions.

We combine expert knowledge in five core areas:

- **Work** – Ascertainment and use of the effects of digital transformation on the working environment
- **Efficiency** – Improvement of processes using digital technologies
- **Energy** – Detection and implementation of energy-saving potential due to digitization
- **Ideas** – Identification of business opportunities arising with digital transformation and development of new business models
- **IT-Security** – Tackling IT risks coming along with digital interconnectedness

We focus on questions that are of particular interest to SMEs in the context of digitization. The “CiP” and “ETA” learning factories are central components of our knowledge transfer. Our approach contains practice-oriented and work-related learning.

The Digital SME Competence Center Darmstadt consists of seven partners: the Institute of Production Management, Technology and Machine Tools at Technische Universität Darmstadt, the Institutes of Ergonomics & Human Factors, Production Engineering and Forming Machines and Computer Integrated Design as well as the Fraunhofer Institute for Structural Durability and System Reliability, the Fraunhofer Institute for Secure Information Technology and the Darmstadt Chamber of Commerce and Industry.

**Visit us here at HANNOVER MESSE at the BMWi booth in Hall 2 C28.**

www.kompetenzzentrum-darmstadt.digital
The SEF Smart Electronic Factory e.V. is an association founded in 2015 that develops Industrie 4.0-capable solutions – with a focus on the requirements of the SME sector.

The association designs, tests and validates Industry 4.0 applications in the real electronics factory of Limtronik GmbH in Limburg a.d. Lahn – from practice for practice. Similarly, in the summer of 2017, another research and development platform went into operation: at the Lenze SE factory in Aerzen. Thus, the association can validate and realize multiple proof of concepts (PoCs) in parallel.

Currently, the SEF shows how microservice-based IIoT solutions can be brought together in a cross-supply chain hybrid cloud scenario and used by a supply chain management platform. The scenario will be demonstrated on the basis of worker assistance systems at an assembly site. The application shown on the occasion of the Hannover Messe shows the complete tracking of a customer order - from the order of the individual components to the use of the goods by the customer and the resulting product changes in the product life cycle of a product and its manufacture.

On the basis of capacity information, a complete tracking of a production order from the order to the delivery of the goods for the customer in near-real-time is possible. The result is a consistent history - a comprehensive data record - of a sales order, which can be evaluated in any way.

For example, by: Query on the production status of a job, early display of bottlenecks, cross-supply chain inventory, quality data and much more. Also, the rapid identification of parts in case of error is possible, as well as the plagiarism.

Visit us here at HANNOVER MESSE in Hall 7 D26.

www.smartelectronicfactory.de
INNOVATIVE TECHNOLOGY TRANSFER

Satellite navigation and earth observation create new markets

cesah, the centre for satellite navigation Hesse, is a competence centre for the application of space technologies. It is seated in close proximity to the European Space Operations Centre ESOC in Darmstadt. Next to the state of Hesse, Darmstadt City of Science, the Technical University of Darmstadt and the University of Applied Sciences Darmstadt, cesah is funded by two private shareholders, T-Systems International GmbH and Telespazio VEGA Deutschland GmbH. cesah was founded thanks to a joint initiative of the European Space Agency ESA and the state of Hesse.

cesah is, together with EurA Consult, the official “Technology Broker“ for Germany commissioned by ESA. In this function it supports the technology transfer from space. Core areas are satellite navigation and communication, earth observation, hard- and software, sensor and measurement technologies, robotics and automotion as well as new materials.

On behalf of ESA, cesah also manages the ESA Business Incubation Centre (BIC) Hessen & Baden-Württemberg and supports young enterprises and start-ups with the technical development, realisation and launch of new products and services.

cesah organises subject-specific and application-oriented events and is the regional contact point for the Hessian participation of the Galileo Masters. In addition, cesah runs the FabSpace 2.0 and the Astropreneurs program, both part of Horizon 2020.

www.cesah.com
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After-sales service is not only the most profitable phase in the entire product life cycle, but also an important instrument for customer loyalty. An optimized service strategy that is aligned with the overall strategy offers excellent opportunities to secure primary business and open up new business areas. Thanks to the high margins in customer service, economic fluctuations can also be successfully cushioned, which in turn leads to a long-term improvement in the competitive position. However, there are numerous hurdles, such as increasing digitalization and its sluggish implementation within companies, the increasing shortage of skilled personnel and the high complexity of the entire service area, which regularly pose problems for managers.
But how can companies master these challenges confidently and how can customer service be sustainably strengthened and optimized?

Adtance is a fast-growing, global software and infrastructure company specializing in the digitization and optimization of after-sales services.

Adtance offers a variety of solutions, such as Adtance Support, a leading remote assistance solution, which enables companies to provide an optimized service worldwide using smartglasses and mobile devices.

Further solutions are, on the one hand, Adtance Workflow, the innovative solution for mapping work processes and checklists with the help of wearables, smartphones and tablets or also the Adtance Smart Service Platform, which enable managers to find and use any tools for the after-sales service they need on a single platform, from resource planning and machine management to predictive maintenance solutions.

Furthermore, Adtance also offers individual developments in all areas of the value chain.

The customers come from a wide variety of industries and company sizes. The solutions are used by small local special machine manufacturers but also by international automotive manufacturers, so that the solutions are optimized and installed according to the requirements.

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www.adtance.com

Contact:
Nils Arnold
CEO & Co-Founder
n.arnold@adtance.com
Together with us, get ahead of 86% of German businesses! Digital innovations such as mobile communication, cloud, internet of things and artificial intelligence are radically transforming society and economy. New, “digital” business models are turning whole industries upside down or even challenging them altogether.

In the business-to-business field (B2B) DigiTS supports your company to develop digital business models and to align your people and your organization to successfully sell in digital business models. We analyze your digital maturity and expertise and identify together the areas for action to make you strategically, organizationally, and culturally fit for your digital transformation.
Your people are at the center of action: It is your people who have the know-how about your products, solutions, and customers. Many of your people are already very “digital” in their private life. We use creativity and coaching methods to turn your managers into “digital leaders” and to motivate and engage your employees as key success factors for a successful digital transformation.

Your benefits:
- business development for the digital transformation
- utilization and further development of your existing digital competencies
- engagement of your employees with proactive change management
- direct know-how transfer into your organization
- strengthening of your business' resilience
- you decide scope and speed

Our value-add:
- expertise from own professional experience in digital business models, sales, leadership and change management
- PSA® (personality structure analysis) and ILP® coaching expertise
- access to networks with additional expertise

In the business-to-consumer field (B2C) we support you in the implementation of customer relationship management, customer communication, and e-commerce.

TECHNOLOGIES ARE THE BASE FOR THE DIGITAL TRANSFORMATION.
IT IS THE PEOPLE WHO MAKE IT A SUCCESS.
Transforming data into strategic knowledge – this goal drives us every day anew. We are convinced that Data Science lays the foundation for success in the age of digitalization.

An interdisciplinary team has been formed around the two founders, Oliver Bracht and Heiko Miertzsch, which generates competitive advantages for its customers ranging from medium-sized companies to DAX corporations. The key to this lies in the data. We support you in recognizing your data potential and developing it optimally for you.
CONDITION MONITORING AND PREDICTIVE MAINTENANCE FOR DIGITAL PIONEERS

When condition monitoring, i.e. the permanent monitoring of machine data, meets our know-how in the field of data science, maintenance work can be proactively coordinated, availability increased and workflows optimized. Through the use of Advanced Analytics, we recognize patterns in historical data and develop predictive models for you that help you to identify defective components before damages occur to the machine.

We are your holistic partner for analytics in industry:

- **Knowledge transfer**: Make data science the building block of your business model – we support you in building analytical know-how.
- **Project realization**: From forecasting future machine failures to optimizing service operations – we create strategic advantages for you on the basis of data and algorithms.
- **Software development**: We develop your collaborative portal solution for controlling your machine data and optimizing your maintenance.

Benefit from our support, as the technology leader TRUMPF does:

“The eoda | data science environment enables us to solve problems before they actually occur. Thanks to the data evaluation in real time, we reduce downtimes, optimize processes and increase machine availability at the same time.”

*Marco Holzer, Head of Product Management & Logistics Services | TRUMPF*

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Product development is undergoing a fundamental change. This change is influenced by the increasing integration of digital technologies in development processes as well as in the products themselves.

At FD/METHCON, we see it as our duty to make product development processes as efficient and future-oriented as possible. We accompany our customers with clever products and expert advice. Our company utilizes a multidisciplinary, networked, intelligent approach to process management in order to facilitate appealing innovations in future smart products.

With Smart Engineering and Smart Production we ensure the creation of digital value and a completely distinct transformation.
ENTERPRISES ON THE JOINT COMPANY BOOTHS

PRODUCT OPTIMIZATION

- Transparent and independent CAx and PDM/PLM consulting
- Methods for optimization and standardization of workflows
- Adaptive development and protection of the company’s know-how

DIGITALIZATION

- Consulting for process optimization in the fields of smart engineering and smart production
- Integration of digital technologies such as 3D digitalization/initial and volume production sampling
- Interfaces and workflows from the data model to the machining center

PROJECT MANAGEMENT

- Digital TaskBoards
- Team and project management
- Change management and requirements management

YOUR ADVANTAGES

- You are well-prepared for current and future requirements in the field of smart engineering and smart production.
- You have at your disposal an intelligent, adaptive engineering.
- You are able to protect your company’s know-how by storing it within a process-specific data model.

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CEO Sales
Marcel Drexler
CEO Service
PARK SAFE!

41 million registered vehicles meet approx. 4.8 million parking spaces: The SmartParking portal Book-n-Park enables users to find and book individual parking spaces securely and thus forms the basis for the introduction of sharing models for more efficient use of parking spaces.

Book-n-Park developed an “intelligent parking lot“ that blocks a parking space until the driver activates the parking space via a web app on the smartphone.

Parking spaces can be prebooked with a smartphone or PC. The parking spaces are unblocked either using a special app or a link sent by e-mail.
A smartphone or car infotainment system works like a remote control in the blocked parking area; the driver does not need to disembark the vehicle.

Alternatively, a receptionist, secretary or hotline can remotely unblock individual parking spaces simply using their computer at any time without having to be physically close to the parking spaces.

No additional infrastructure elements such as transmitters, cameras, RFID readers, etc. installed on the vehicle are required!

The parking lot barriers connect to the internet using a newly developed, very energy-efficient, long-range IoT radio protocol. LAN or power cables are not needed. A gateway, which is more than 400 meters away, can easily be reached.

Target groups are parking lot owners who want to use their parking spaces more efficiently. These are e.g. municipalities, companies, housing associations, hotels, doctor’s offices, multi-storey car parks with VIP areas, airports and bus stations or event organizers.

Companies can use **Book-n-Park** to make available parking space they don’t need on weekends to third parties and thus earn a few extra money. Furthermore this technology can be used to book charge columns space for e-cars.

**Book-n-Park** is designed to be as comfortable as possible, neither drivers nor car park operators have to install software or apps, an Internet-capable browser is sufficient. The booking and administration system runs on servers located in Germany providing the utmost data protection.

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**GMS Green Mobility Solutions UG**

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Portal: www.book-n-park.de

**Contact:**

Michael Schaab
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schaab@green-mobility-solutions.de
The House of IT is an innovation cluster organized as a nonprofit funded jointly by the government, business and research sectors. Its mission is to further the digital transformation. This is where visionaries, decision-makers and users come together to form a network of experts and collaborate on digital transformation issues.

The broader “Houses of” innovation strategy of the state of Hesse is designed to enhance Hesse’s attractiveness as a location through member cooperation and to promote projects across sectors.
Shaping the future, continuing education

At the House of IT, future issues in digital competence are shaped and promoted for technical professionals and managers. The House of IT has joined the Goethe Business School in offering the Master of Digital Transformation Management (MBA) program and organizes both member-exclusive and public continuing education offerings. These include knowledge transfer events for technical and management professionals, such as #Digiforum, a digital policy breakfast event with representatives of the Hesse state government, and further events on current digital transformation issues in business, research and society.

Become a member!

House of IT is a nonprofit organization funded by membership fees and a grant from the European Regional Development Fund (ERDF). In addition to the state of Hesse, members include prominent IT firms, research institutes, public-sector organizations, universities and SMEs. Join the House of IT!

The House of IT’s Mission

- Assisting in knowledge transfer from research and practice to technical and management professionals
- Promoting and offering high-quality continuing education and degree programs
- Shaping the digital transformation while further enhancing the attractiveness of Hesse as a business and tech location
- Integrating startups, research institutes and other innovation sources into the cluster
- Forming networks of digitization experts
Intelligent Data Analytics designs, develops and operates worldwide innovative software and system solutions in the fields of real-time data analysis as well as process digitization and optimization. Only companies that are able to generate real benefits from their data will be successful in the future. We support you in this!

Our software Moira combines different data sources, analog as well as digital, in one Analytic-Hub to give you a complete overview of your company’s data. Moira can be dynamically adapted to the changing challenges of your company thanks to the wide range of different software modules in our portfolio.
Moira is data-driven and can therefore be used across all industries. We not only offer modules for different data sources, but also for format or data transformations, machine learning (ML) and artificial intelligence. We implement a solution tailored to your needs into your existing IT landscape or set it up in a completely new environment for you.

Our maxim for industry 4.0: the optimal production process

Moira supports you in the digitalization of business processes and in their analysis and optimization. Moira complements your company’s experience with ML and enables a continuous optimization process. For example, predictions can be made to improve your production.

An interactively designed user interface allows you, in addition to pure data visualization, a flexible and immediate adaptation of the digital processes of your company, as well as data input via individual forms.

Especially in times of Smart Data and the constantly growing amount of data, the solutions created by Moira are easy to use, logical and intelligent - no matter how complex your field of application is.

THEREFORE WE ARE YOUR PERFECT PARTNER ON YOUR WAY TO INDUSTRY 4.0!

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Infraforce GmbH is an acknowledged specialist in the IT security field. Since the beginning of 2018, as an investment company, Infraforce has become an integral part of the TÜV Hessen enterprise group.

In this context Infraforce operates the modern cloud platform “LION” of TÜV Hessen.

The LION platform provides the technical basis for the intelligent and automated Security Operation Services (SOS) of TÜV Hessen. The “Proactive Breach Defense“ (PBD) category includes the CAT simulation and the COBRA service.
The **CAT simulation** continuously checks the resilience of dedicated IT assets using real attack vectors. Every day, throughout the year, a multitude of attack waves are simulated through CATs to proactively detect existing vulnerabilities within IT infrastructures before hackers or other criminals do.

The **COBRA service** basically works like CATs. However, this one-time comprehensive security assessment only lasts several days.

Infraforce supports medium-sized companies and authorities in obtaining the **TÜV Hessen seal of quality “Validated IT Security”**.

The seal of quality attests the proper condition of one’s own IT security infrastructure. At the same time a neutral and independent quality review always sends a positive signal to customers and business partners, because the seal owner shows that the achievement of a high IT security standard plays a particularly important role for him.

In times of great uncertainty and a growing loss of confidence in the manufacturers of IT security technologies a proof of quality by a renowned German certification company can also be a clear competitive advantage.

The seal for the following six core areas will be awarded by the assessment office of TÜV Hessen upon successful examination:

- Endpoint-Security
- Datenschutz
- Firewall
- Backup-System
- Notfallspläne
- Wiederherstellung

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Le Bihan is a leading Consultancy in international project management. For over 30 years Le Bihan has successfully supported international businesses with the evaluation, conception and implementation of project and portfolio management solutions.

Le Bihan offers combined project management expertise for a comprehensive consultancy service – from project initialization to process and method consulting and from demand analysis and software selection to technical and organizational realization.
Our unique selling propositions are:

- the unique market expertise and the experience from the most extensive evaluation of project management software in Europe – the PM Toolreport,
- this knowledge in combination with the data and the organized approach of the most comprehensive evaluation platform for project management software in Europe – the PM Toolfinder,
- the long-term experience from the introduction and optimization of project management solutions in numerous enterprises and medium-sized companies,
- the ability, to view software solutions in context of proven project management methods and organizational development.

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LEAD GENERATION AT YOUR CORPORATE SITE

We at MySiteChat offer complete live communication as outsourcing at a fixed price. Hundreds of Chat-Agents with multiple language profiles are ready to welcome the visitors of your website.

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WE CONVERT UNCONTROLLABLE INBOUND INTO ORGANIZED OUTBOUND COMMUNICATION!
THE BEST SOLUTION FOR

- Lead Generation
- First-Level-Support
- Brand Awareness

Live communication today is a must have. The average website visitor leaves a site within less than 60 seconds. To convert your paid visitors into leads you have to pro actively interact using real chat-agents!

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- No software installation required
- No installation/configuration fee
- No base fee

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Scan me …
The digital 4.0 education solutions developed by the Provadis E-Technologies team come from practical experience and meet operational requirements to the point.

- **Document trainer - AWARD winner**  
  Interactive training quite simple

The FIT² document trainer convinces in particular by its simple and fast handling. In just 15 minutes, even beginners can use this product to transform a document into a digital, interactive, legally compliant training course.

The number of documents that need to be legally compliant trained or distributed to employees is constantly increasing. And all this against the background of reduced budgets and personnel. We have solved this problem with the FIT² Document Trainer.
“Active Training 4.0” – AWARD winner
The virtual plant trainer

With this product, entire plant components or production plants are “digitized”. The system is not only virtually walkable, but also equipped with different training scenarios: E-Learnings, interactive training videos, service instructions, operating instructions, safety instructions etc.

“Active Training 4.0” can be used anywhere - with or without VR glasses - on a PC, tablet, laptop or smartphone.

Provadis PowerClicker®
The new dimension of interactive training

Efficient, interactive, sustainable and fun is also included - this is how users describe the Provadis PowerClicker®, which they can also test live at the stand. The Provadis PowerClicker® is a wireless training system that playfully promotes knowledge transfer at the touch of a button and is much more than just a voting system. It was specially developed for the training and education sector. A new app completes the solution.

Our claims

We take the overwhelmingly positive feedback on our digital education solutions as an incentive to drive our developments forward. The direct dialogue with interested parties from all operational areas provides us with important information for expanding our practical solutions for practical use.

Visit us at ours location in Frankfurt.

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QGroup transfers pragmatic military security strategies to non-military customers in order to better meet today’s security requirements. The QGroup was founded in 1993 and operates as a company in the field of IT security and IT high availability. The company is headquartered in Frankfurt am Main and has employees in the USA and Canada.

For General Dynamics, QGroup is the Center of Excellence Multi-level IT Security and has many years of experience with customers in the field of military IT security as well as for the official and commercial sector.

The QGroup advises companies on security issues, supports them with penetration tests and forensics, maintaining a 24/7 Security Incident Response Team for customers.

The efficiency of QGroup’s solutions made the State of Hesse investing in 2013.
To gain a first insight into the IT security of your company, we advise you to have a Check4Hack performed. This way, you will learn about our service and expertise and find out to what extent your system is vulnerable or has already been attacked, and if so, which solutions are available.

The Check4Hack consists of the following modules:

- Attack vector analysis
- Network forensics
- Vulnerability analysis

We also offer further measures:
Password audit, IoT analysis, penetration test, social hacking ...
racksnet® automates IT networks. We rely on a comprehensive, flexible integration of our applications into the cloud. On this basis and with the possibilities of SDN, our customers can be sure to manage and deploy all their network relevant infrastructures easily, securely and quickly from anywhere in the world. Thus racksnet® provides a stable technological foundation around enterprise networks and driving innovations and developments globally.

racksnet® focuses on the fast growing market segment of software-based-network (SDN). Our products offer a wide range of automation, control and management functions to large enterprises, mid-sized companies and organizations as well as service providers. We combined these functions in an intuitive user interface that is the same for all devices, regardless of manufacturer. This also eliminates the need to learning complicated command lines to operate network devices from different manufacturers, such as Cisco, HP, Huawei and others.
Standardized interfaces (NETCONF, REST, SNMP, OPENFLOW, PYTHON, etc.) offer a great flexibility in planning, configuring and deploying high-performance network infrastructures and they provide sufficient buffers for future requirements.

PRODUCT-HIGHLIGHTS

- Network status control and status of individual network devices
- Display of the respective operating status of your network devices
- Network scan at the push of a button (import of existing networks)
- Fast cloning of projects and networks
- Migration from one vendor to another vendor
- Zero Touch Deployment
- Global inventory list at the push of a button
- Clear presentation of your “Racks & Networks”
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- Intuitive navigation and innovative user guidance
- Management of all network relevant information and alerts
- Intelligent search functions
- Access from any location and at any time – 24/7
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- Simple and clear license management

Start your network automation today!

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Jorg Junghans
VP Marketing & PR
Based on our many years of experience in the industrial production of SMEs, we specialize in the implementation of digital transformation in manufacturing SMEs. We are aware of the importance of the concept of “Industry 4.0” for industrial production. Our approach is now to realize this important concept economically, together with you.

- **efficient, sustainable and future viability**

We realize the following goals together with our customers

1. **efficient**: lead time, quality, flexibility, information flow
2. **sustainable**: use of resources (energy, water, material)
3. **future viability**: company, organization, offer
**concrete implementation with our customers**

We implement the digital transformation in three phases

**Phase 1 “initiate”:** start workshop(s), set goals, analysis of the production-/value creation-process

**Phase 2 “design”:** process flow, infrastructure and software; involve managers, employees, possibly customers

**Phase 3 “realize”:** Build a concept (hardware and software), train employees, attend optimization

**Implementation examples from our work**

**digital infrastructure:** hardware and software for media-disruptive information transfer in the complete value-added process

**Procurement:** Minimization of storage costs and tied capital through appropriate purchasing of goods

**Production Planning:** economic production capacity by optimizing regarding order, retooling etc.

**Robust Process Quality:** historical data and/or evaluate tests and find quality-determining parameters

**Monitoring:** Qualitative, robust and economical production by collecting all relevant data in real time

**Maintenance:** Prevent unplanned downtime by continuously recording machine conditions

**Digital Assistant:** operator information for device/machine settings

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SIMULATION SOLUTIONS FOR PRODUCTION AND LOGISTICS PROCESSES

From simulation to virtual commissioning to the digital twin of your production process

SimPlan supports you with

- the planning of production systems: Using a simulation model, the throughput and other key figures of the future system can be determined. This provides you with an objective basis for decision-making, e.g. when it comes to selecting the conveyor technology or designing buffers. You can compare solutions with each other and recognize possible optimization potentials. For example, you can check and compare the offers of different plant manufacturers in the simulation.
the commissioning of the plant: The control logic contained in the simulation model can be replaced by the coupling with the real control. This technology is also referred to as virtual commissioning or emulation. This can be done on different levels of the controller. It is possible to couple the model on PLC, MFR or PPS level. The biggest advantage is the fast commissioning of the real software even before the physical plant exists. There is no need for time-consuming test runs on the construction site. This has a significant effect on the commissioning time of a plant. Therewith 20-50% of the time can be saved.

the running operation of your production: By coupling the simulation model with real operative data, the model becomes the digital twin of your production. This primarily concerns order data as well as dynamic parameters of your process such as the availability of machines, plants and personnel. By integrating the simulation model into the operative IT, the model enables forecasts, e.g. of the order throughput times of one day - when is which order ready for dispatch? In addition, the effects of short-term changes on the overall process can be determined - such as the scheduling of urgent production orders.

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Marketing
SKILL SOFTWARE GMBH (Frankfurt/Main) specializes in radically simplifying complex business processes and making them accessible on smartphones and tablets - digital documentation for industry, technology, energy, construction, real estate, customer/visitor routing plus location, measuring and navigating the Internet of Things (IoT).

TechDoc
- Documents industrial plants or machines with malfunctions or service needs directly on construction plans. Descriptions, certificates, data sheets and services are recorded in reports with time, material and customer’s signature.
- With ticketing, help desk, knowledge databases, hotline, service assistance, dispatching, mobile warehouse.
- Sensors check operating conditions and initiate preventive maintenance in case of malfunctions before production stops. (IoT)
- Fault predictions and problem history.
EnergyDoc
- Checks with sensors target and actual energy consumption and alerts the technical service before faults occur. Avoids high energy costs and finances itself. The purchase can be supported by funds. The use of EnergyDoc, among other things, made it possible to develop a 50 % more economical freezer.

Guide
- Locates staff and resources (indoor + outdoor) to quickly find people or resources, e.g. urgently needed mobile ECGs in a clinic.

BauDoc
- Telecom Innovation Award Winner, represents all construction processes from the digital CAD plan assumption (Graphisoft) to the change feedback (usable BIM) or facility software. All construction, defects, notifications or acceptance processes, certificates, reports or services are provided with text and pictures for documentation purposes. The digital construction management includes communication with subcontractors.

PropertyDoc
- Documentation suite of all the mentioned applications for construction, real estate, public authorities, clinics, shopping malls, universities, business parks and industrial facilities.

Risk Check
- The software for risk assessment according to §5 Working Conditions Act. Easily record, describe and evaluate hazards – legally safe for companies, organizations and construction sites.

The applications avoid production downtime through preventive maintenance and increase your productivity significantly.

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HUMAN-MACHINE INTERFACE
FROM BIG DATA INFORMATION OVERLOAD TO ABILITY TO ACT

Industry 4.0 makes our processes faster, more intelligent, more efficient. However, this advantage is often lost when transferring machine data to the human decision-maker, because the information overload needs to be managed and those responsible must first be identified.

tetronik’s alarm server DAKS transfers the digitalization advantage into communication: Relevant data is attributed and distributed specifically to those responsible. This accelerates the decision-making processes and enables rapid action.

EXTENSIVE DATA ➔ RELEVANT DATA ➔ ENRICHED DATA ➔ TARGET PERSONS ➔ DECISION ➔ ACTION
ENTERPRISES ON THE JOINT COMPANY BOOTHS

PREDICTIVE MAINTENANCE / FAULT MESSAGES
React faster and minimize downtime costs through targeted, automated technician requests

SKILL GROUPS
Easily and quickly request and deploy the exact number of specialists required for the job

CONFERENCES
Accelerate decision-making processes through automated conferences in daily business and in crisis situations

CONTROL CENTER
More secure processes through a better overview, intuitive process activation and audit-proof process logs

AUTOMATED ALARM PROCESSES
Alleviate stress situations, avoid mistakes and delays, mobilize necessary helpers

STAFF PROTECTION / LONE WORKERS
Legally compliant protection of lone workers: personal alarms with localization even if the affected person can no longer call for help

DAKS AS A HUMAN–MACHINE INTERFACE

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CITY OF DARMSTADT
HOME OF INNOVATION, ENGINEERING, IOT AND INDUSTRY 4.0

Three industrial revolutions have lead to nowadays standard. The next technology revolution, Industrial 4.0, merged together completely all aspects, of what has been created and invented before. All processes will be connected to each other and enables not only a smart production, which will become standard for all branches and sizes of companies. More than this, the capacity and possibilities of intelligent digitization, will serve humans in all aspects in the day-to-day-life.

It is no secret, that Germany as one of the most successful technology locations of the world, delivers the highest attainable standard, regarding intelligent ICT-based machines, processes, and systems. Our high performance is based on a high concentration in science and the transfer of innovations. Two core strengths of the City of Science, Darmstadt.
With over 47,000 students and over 30 research facilities, an excellent quality of education at our universities and over 162,000 citizens, the City of Science Darmstadt belongs to one of the most important Industrial 4.0 and IoT-locations and counts to the few, real growing cities in Germany.

The given conditions and our infrastructures of formation, economy and research facilities, match perfectly the high demanding requirements of our dynamic and strong concentration of economical industries and scientifical key actors. The City of Science Darmstadt is well known, as the city of short ways, not only from a physically point of view, as much more for being capable of acting fast, to enable quick decisions and the transfer from science-to-business. One of the reasons, why the City of Science Darmstadt counts the second strongest economic core in the State of Hesse.

Another core competence is the great variety of branches. The five clusters in automotive, chemistry, electromobility, ICT and space, combining the great portfolio of our universities, made the City of Science Darmstadt lead to the first place ranking as the city with the most prospering future in Germany.

To give you a small insight of our Industrial 4.0 key players in Darmstadt, we invite you to take a view at our site www.darmstadt.de

For more information, simply get in touch with us.

You are warmly welcome to consider the City of Science Darmstadt in any manner. We are pleased to assist you in getting to know one of the most important key locations of the ICT / IoT and Industry 4.0 branch in Europe.

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YOUR SHORTCUT TO KNOWLEDGE

Quick, easy and reliable: WTI-Frankfurt-digital brings Structure into Companies and Knowledge.

WTI stands for Wissenschaftliche Technische Informationen (scientific technological information).

As a company WTI-Frankfurt-digital GmbH emerged from the cooperative that was founded by employees of the former FIZ Technik. Now as a newly founded company in January 2019 we build on the new and innovative ideas of a startup combined with the many years of experience of our industry-versed employees.

WTI-KNOW-HOW

WTI-Frankfurt-digital GmbH stands for application-oriented knowledge and practice-relevant research results. We do not belong to any publishing house and thus can work completely independent to offer a total palette of verified and absolutely reliable content.
Our services include database usage, subscribed information services for defined topics and research services, analyzing tools and terminologies.

Thematically our services cover all engineering disciplines as well as management and company organization. Furthermore, we include current political and economic relevant cross-cutting themes like Industry 4.0, IT security and electric mobility.

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We offer targeted consulting to a variety of topics and thus bring structure in companies and knowledge. We help you build your company own database or knowledge management or will bring structure into your IT department as external consultant.

**WTI-GAME**

Playfully our TecGame tests your customers’ or employees’ knowledge and fills undesirable knowledge gaps. The game can be completely tailored to the needs of your company and is usable as a quiz at an event or as a part of your blended learning method.

**WTI-ANALYSIS**

Data and patent analysis made simple. Through our cooperation with Innventia Technologies in Mexico we combine our data with their analysis software Kanna. The data is automatically analyzed while you search and your search results are displayed already sorted in comprehensive categories.
DIGITAL CONGRESS 2019

May 15th, 2019
Palmengarten
Frankfurt, Germany

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