Greeting

Dear participants of the CDO Aachen 2024,

Welcome to the CDO Aachen 2024 – Convention on Digital Opportunities. Under the motto "Building the AI-driven Enterprise", we are pleased to welcome you to an exciting journey into the world of artificial intelligence.

Digital transformation is no longer just a trend, but essential for the success of modern companies. Today, companies are faced with the challenge of continuously adapting their business models and processes in order to remain competitive in the long term. The CDO Aachen 2024 now offers you the opportunity to start and accelerate your journey to becoming an AI-driven company.

Once again, we have invited renowned experts from industry to share their knowledge and experience with you and to join in the discussion. Together, we want to answer the question of how companies can strategically integrate AI technologies and thus ensure long-term success. Join us in looking forward to exciting presentations and discussions on the latest trends and best practices in AI integration.

Our experts will be highlighting the central topics:

▮ **AI as a key technology for digital transformation:**
How companies use artificial intelligence to achieve efficiency gains and automate processes.

▮ **AI technologies and value creation:**
The added value that AI already offers today for the manufacturing industry.

▮ *Accelerating AI processes:*
Success factors for implementing and scaling AI solutions in different industries and company sizes.

You can look forward to in-depth insights and new ideas on a groundbreaking topic and be inspired by best practices. On the following pages of our program brochure, you can find out more about the details the schedule, the presentations and content of the day, the participating companies and the topics from FIR and the Industrie 4.0 Maturity Center.

It remains for us to wish you an informative and insightful day. We are delighted that you are here today and look forward to continuing the dialogue with you beyond CDO 2024 in order to tap into the potential of artificial intelligence.

Yours

Max-Ferdinand Stroh, Christian Hocken and Gerrit Hoeborn

At a Glance

CDO
Aachen
2024

Program

10:00   Welcome & Moderation of the Day
Christian Hocken, Industrie 4.0 Maturity Center
Gerrit Hoeborn, FIR e. V. an der RWTH Aachen
Max-Ferdinand Stroh, FIR e. V. an der RWTH Aachen

10:15   Keynote Speech 'Building the AI-driven Enterprise'
Christian Hocken, Industrie 4.0 Maturity Center
Gerrit Hoeborn, FIR e. V. an der RWTH Aachen
Max-Ferdinand Stroh, FIR e. V. an der RWTH Aachen

» Long-term Success with an AI Strategy «

10:30   Exploring AI Opportunities and Use-Cases in the Semiconductor Industry
Derrick Wan, Elmos Semiconductor SE

10:55   How to Anchor AI in Your Organization
Felix Schlenther, AI FIRST

11:20   AI & HR – How Artificial Intelligence and HR are Support Each Other
Dr. Roscoe Araujo, Covestro AG

11:45   AI @ Tax Department
Patrick Stasch, Viega GmbH & Co. KG

12:15   Lunch Break

» AI Technologies for Value Creation «

12:45   Bringing ChatGPT to Your Workforce – an Inside Perspective
Roland Cernat, Miba AG

13:10   Closing the Gap Between Manufacturing and AI
Deniz Saner, ENLYZE GmbH

13:15   AI @ Shopfloor – Requirements, Challenges and Solutions
Dr.-Ing. Tobias Schlagenhauf, Bosch

13:40   AI's Transformative Impact on the Industrial Enterprise:
From Product Lifecycle to Strategic Value
Dr. Alexander Lemken, PTC Inc

14:05   From Bottom-up Exploration to Top-down Efficient Strategy
Use Cases in AI at Continental
Dubravko Dolic, Continental Reifen GmbH

» Processes to Accelarate AI «

14:30   Cognitive Robots in AI driven Enterprises
Jens Fabrowsky, Neura Robotics GmbH

14:50   Uncovering the Impact of AI in Manufacturing
Sebastian Kress, Tulip Interfaces

15:15   Spreading the Word – AI Literacy & Adoption at Siemens
Robert Lohmeyer, Siemens AG

15:40   Kickstart AI – Transforming Ideas to Real Breakthroughs!
Tim R. Schleicher, One Thousand GmbH

16:00   AI – Game Changer in the Upgrate Circular Economy
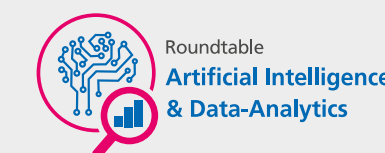Gerrit Hoeborn, FIR e. V. an der RWTH Aachen

16:25   Virtual Live Tour Through DFA Demonstrationsfabrik Aachen

16:45   Wrap-up
Christian Hocken, Industrie 4.0 Maturity Center
Gerrit Hoeborn, FIR e. V. an der RWTH Aachen
Max-Ferdinand Stroh, FIR e. V. an der RWTH Aachen

17:00   End of Event

Stand: 20.11.2024 I Subject to change.

Our Roundtables

Roundtable **Artificial Intelligence & Data-Analytics**

Roundtable "Artificial Intelligence & Data-Analytics"
» To the German Roundtable [rt-aid.net]

Roundtable **Information Technologies**

Roundtable "Information-Technologies"
» To the German Roundtable [rt-it.net]

Roundtable **Information Manager**

Roundtable "Information-Manager"
» To the German Roundtable [rt-im.net]

Expert Circle Business Transformation

Expert Circle "Business Transformation"
» To the German Expert Circle [ec-bt.fir.de]

Further Roundtables & Working Groups

CDO Aachen 2024

CDO Partners

EXCLUSIVE Partner

>> Get to know us!

We are *One Thousand.* Because we've set out to co-create 1,000 Artificial Intelligence breakthroughs with our clients.

Using AI, we leverage your data and build a tailored solution within weeks. There's really no limit to what we can do, or whom we can help. Where there is data and a problem that needs fixing, we'll together find a way to come up with the good stuff: turning pain into pain au chocolat.

To you it's business value creation. To us it's that, plus an irresistible adventure that we want to do 1,000 times over. It's the high score for a game we just made up.

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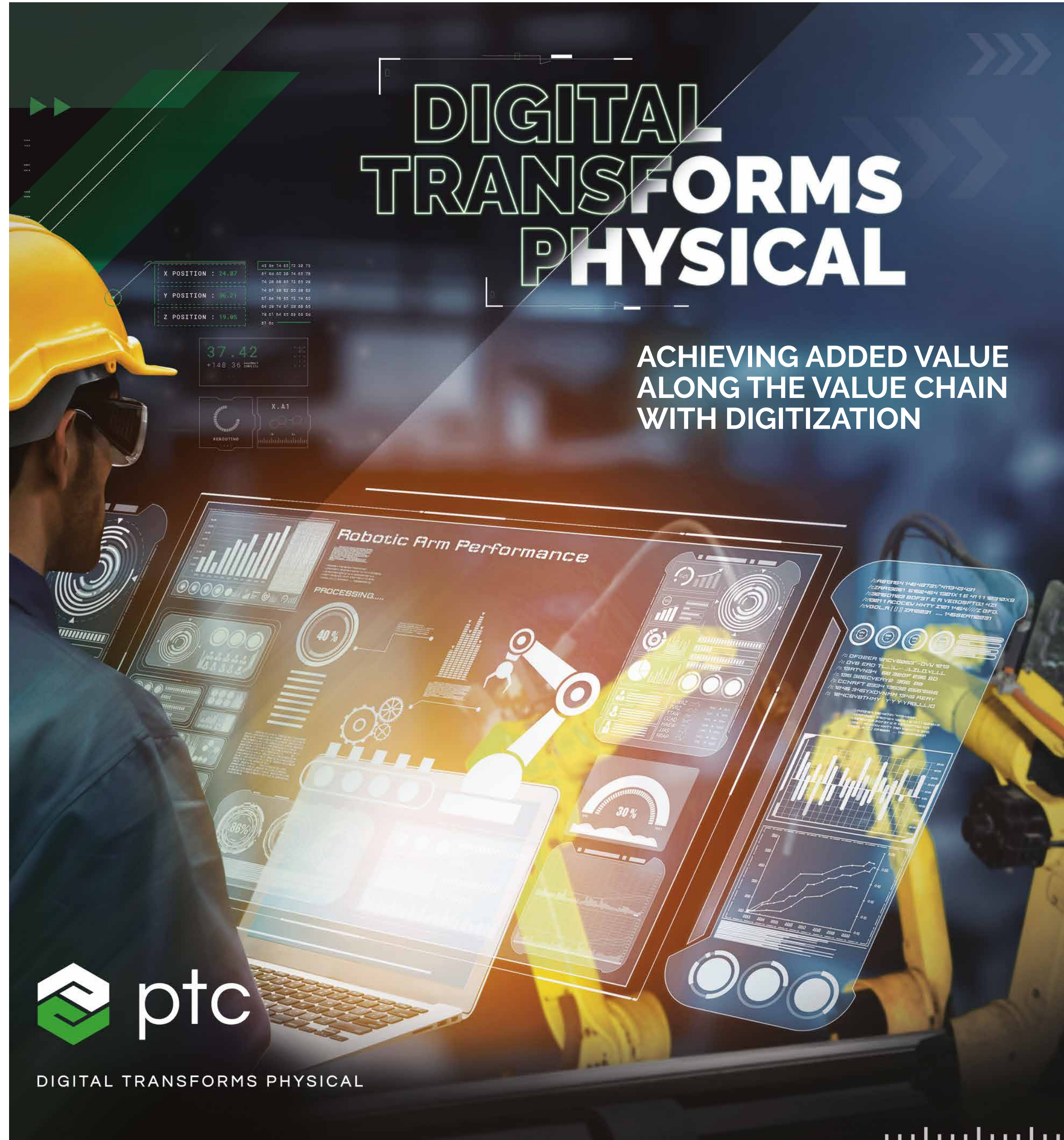
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PTC (NASDAQ: PTC) is a global software company that enables industrial and manufacturing companies to digitally transform how they engineer, manufacture, and service the physical products that the world relies on.

>> Rely on PTC

EXCLUSIVE Partner

Tulip, a leader in frontline operations, is helping companies of all sizes and across industries, including complex manufacturing, pharmaceuticals, and medical devices, equip their workforce with connected apps – leading to higher quality work, improved efficiency, and end-to-end traceability across operations. A spinoff out of MIT, the company is headquartered in Somerville, MA, with offices in Germany and Hungary.

>> Take a Virtual Tour

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Read Our Free Bilingual FIR Journal "UdZ – The Data-driven Enterprise!"

All Issues can be Found at:
unternehmen-der-zukunft.de
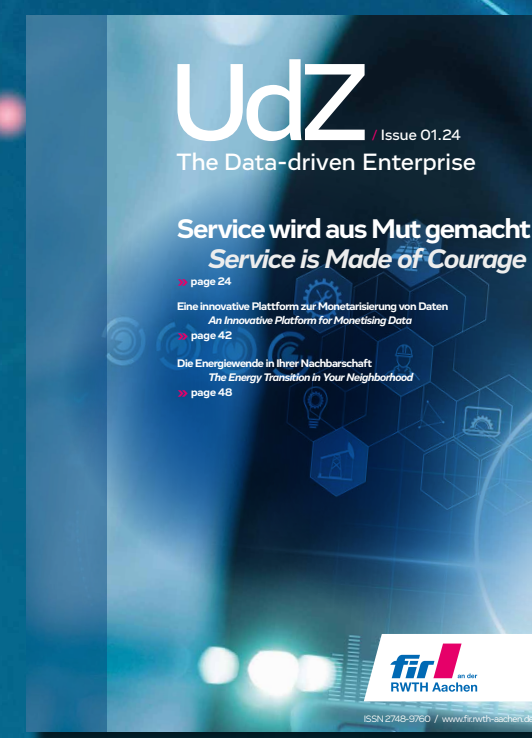
PREMIUM Partner

∇ ENLYZE

>> Visit our website

ENLYZE is building a fully integrated IIoT Manufacturing Data Platform that allows for rapid connectivity of IT and OT systems. This unified data foundation can than be leveraged to define an consume KPIs, synthetic data points and reports based on the manufactured reality instead of a brittle data foundation based on manual worker entry. By distributing data into the tools organizations use today *ENLYZE* enables better and aligned decision making across the org based on the same data. At the same time, this data foundation is a prerequisite to train and operate AI on.

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University

INDUSTRIE 4.0
MATURITY CENTER

fir at
RWTH Aachen
University

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Welcome & Moderation of the Day
Keynote Speech

10:00 – 10:30 Uhr

Keynote Speech 'The AI-Driven Enterprise: Redefining Value Creation'

An AI-Driven Enterprise requires not only technological adaptations but also a radical rethinking of how resources, culture, IT-systems and organization are interconnected. The paradigm shift toward AI compels companies to reasess their value creation, focusing on data-driven approaches and automation to achieve greater efficiency, flexibility, and innovation in their operations.

Christian Hocken
Managing Partner,
Industrie 4.0
Maturity Center

INDUSTRIE 4.0 MATURITY CENTER

Gerrit Hoeborn
Head of Department
Business Transformation,
FIR e. V.
at RWTH Aachen University

fir at RWTH Aachen University

Max-Ferdinand Stroh
Head of Department
Information Management,
FIR e. V.
at RWTH Aachen University

fir at RWTH Aachen University

Presentations in Detail
» Long-term Success with an AI Strategy «

10:30 – 10:55

Exploring AI Opportunities and Use-Cases in the Semiconductor Industry

Derrick Wan
Senior Manager Strategy,
M&A and AI
Elmos Semiconductor SE

elmos

10:55 – 11:20

How to Anchor AI in Your Organization

Felix spearheaded the development and implementation of an AI-First strategy that successfully transformed a company from significant losses to profitability. He experienced first-hand the transformation into an AI-driven business.

He will present his insights on effectively integrating AI within an organization, engaging teams to embrace AI, and leveraging this transformative technology as a catalyst for future success.

Felix Schlenther
Founder & CEO
AI FIRST

AI FIRST

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Presentations in Detail
» Long-term Success with an AI Strategy «

11:20 – 11:45

**AI & HR – How Artificial Intelligence and
HR Support Each Other**

Artificial intelligence has the potential to revolutionize HR in a dual role: On the one hand, AI is transforming HR itself; on the other hand, HR is jointly responsible for AI transformation in other areas of the company.

What exactly might this look like if AI is used at the interface between HR and employees? Our answer from Covestro is the vision of an employee experience tailored to the needs of employees through intelligent systems.

Join us to discuss the opportunities and challenges of such a personalized, AI-supported HR service approach of the future. Be inspired by how HR is becoming the driving force for companies in the AI age.

Dr. Roscoe Araujo
*HR Senior Project Manager
for Transformation*
Covestro AG
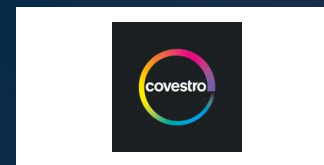
11:45 – 12:15

AI @ Tax Department

The presentation will be about the use of AI tools at a company's tax department. We will have a look at the current status and how AI supports the daily work already today. The presentation will further cover challenges that need to be known when introducing AI because tax is very data sensitive. We will also talk about potential use cases in the future.

Patrick Stasch
*Global Head of Tax
& Customs*
Viega GmbH & Co. KG

» AI Technologies for Value Creation «

12:45 – 13:10

**Bringing ChatGPT to Your Workforce –
an Inside Perspective**

- Discover the practical steps and insights from Miba's experience in integrating ChatGPT and Generative AI for their employees.
- Join me as I share our journey from forming an AI task force, to the development process of a prototype to MVP, and launching a company-wide AI solution.
- Learn about our collaborative approach, workshops, addressing data protection concerns and the dos and dont's.
- This session will offer a comprehensive view of implementing Generative AI innovation within an organization.

Roland Cernat
*GenAI & Digital
Business Expert*
Miba AG

13:10 – 13:15

Closing the Gap Between Manufacturing and AI

Now more than ever, the term AI and the hype around it is omnipresent. While companies like Meta, Google et al. have been training and deploying models for more than a decade now, adoption in the industry has been rather slow. In this talk, I will share our view why that is and present a way forward.

Deniz Saner
Co-Founder
ENLYZE GmbH

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Presentations in Detail

13:15 – 13:40

AI @ Shopfloor – Requirements, Challenges and Solutions

AI on the shop floor has the potential to enhance machine availability, improve quality, and reduce downtimes by analyzing raw data. However, practical implementation faces challenges, especially in Brownfield environments.

With this presentation, we will:
1. Outline the requirements for an effective AI system in manufacturing environments.
2. Highlight common challenges SMEs encounter during AI implementation.
3. Propose solutions to bridge the gap between theory and practice.

Dr.-Ing.
Tobias Schlagenhauf
Project Lead: Federated Learning for Production
Bosch

13:40 – 14:05

AI's Transformative Impact on the Industrial Enterprise:
From Product Lifecycle to Strategic Value

In this presentation, we'll explore practical AI use cases across the entire product lifecycle, including Application Lifecycle Management (ALM), Product Lifecycle Management (PLM), and Service Lifecycle Management (SLM). We'll also dive into critical considerations for a successful AI strategy, such as ethical AI, risk management, and ensuring business value. Finally, we'll provide an outlook on how AI will reshape engineering processes and workflows in the near future, driving innovation and efficiency.

Dr. Alexander Lemken
Director of AI and Applied Analytics
PTC Inc

ptc

14:05 – 14:30

From Bottom-up Exploration to Top-down Efficient Strategy
Use Cases in AI at Continental

For years Conti lived a bottom up strategy where AI enablement was at the core of exploring the possibilities. This now has changed. With the advent of mature AI applications the company tries to get out most of this new technology and fosters a top-down approach.

Dubravko Dolic
*Global Team Lead
Applied Analytics & AI*
Continental Reifen GmbH

Continental
The Future in Motion

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CDO Aachen 2025
Convention on Digital Opportunities
November 19, 2025

CDO Aachen 2024

Presentations in Detail
» Processes to Accelarate AI «

14:30 – 14:50

Cognitive Robots in AI driven Enterprises

Jens Fabrowsky
COO / CTO
Neura Robotics GmbH

NEURA ROBOTICS

14:50 – 15:15

Uncovering the Impact of AI in Manufacturing

Discover how AI is transforming manufacturing. Learn how engineers and frontline workers can leverage generative AI to streamline operations, build no-code apps, and unlock realtime insights. With Tulip's native AI tools, companies like Outset Medical and DMG MORI are driving efficiency and innovation. See how AI is empowering the workforce, improving productivity, and ensuring secure, human-centric solutions for the future of manufacturing.

Sebastian Kress
Enterprise Sales Executive and Lead
for General Manufacturing in DACH
Tulip Interfaces

TULIP

15:15 – 15:40

Spreading the Word – AI Literacy & Adoption at Siemens

You know it, your boss knows it, your company knows it: AI matters. But what do employees really need to understand about AI to effectively use it or identify potential applications? Let's talk about creating literacy, demystifying buzzwords, and why constraints are as important as capabilities.

Robert Lohmeyer
Technology Lead
@ AI Lab

SIEMENS

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2024

Presentations in Detail
» Processes to Accelarate AI «

15:40 – 16:00

Kickstart AI – Transforming Ideas to
Real Breakthroughs!

Tim R. Schleicher
Founder & CEO
One Thousand GmbH

16:00 – 16:25

AI – Game Changer in the Upgrade Circular Economy

Gerrit Hoeborn
Head of Department
Business Transformation,
FIR e. V.
at RWTH Aachen University

16:25 – 16:45

Virtual Live Tour Through
DFA Demonstrationsfabrik Aachen

16:45 – 17:00

Wrap-up

Christian Hocken
Managing Partner,
Industrie 4.0
Maturity Center

Gerrit Hoeborn
Head of Department
Business Transformation,
FIR e. V.
at RWTH Aachen University

Max-Ferdinand Stroh
Head of Department
Information Management,
FIR e. V.
at RWTH Aachen University

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INDUSTRIE 4.0 MATURITY CENTER

The Industrie 4.0 Maturity Center is aimed at manufacturing companies that are on the verge of digitally transforming their value-creation processes, and at partners who support this transformation. The core of the center is formed by a strong community of experts who use the 'acatech Industrie 4.0 Maturity Index' for the digital transformation. The center's services include consulting and training on Industry 4.0 and the digital transformation, as well as the further development of the 'acatech Industrie 4.0 Maturity Index'.

» i40mc.de

More information:
i40mc.de

fir at RWTH Aachen University

The FIR is a non-profit, intersectoral research institute at the research institution at RWTH Aachen University in the field of business organization, information logistics and corporate IT. The institute researches, qualifies, teaches and accompanies in the areas of service management, business transformation, information management and production management. With the research, development and transfer of innovative solutions, the FIR contributes to increasing the competitiveness of companies. This is done in the appropriate infrastructure of the Smart Logistics Cluster for experimental organizational research in a methodolo-gically sound, scientifically rigorous manner and with the direct participation of experts from industry. Concrete industrial use cases are at the center of our consideration.

» fir.rwth-aachen.de
» knowledge-base.fir.de
» imagefilm.fir-mediathek.de [YouTube Link]

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Publications
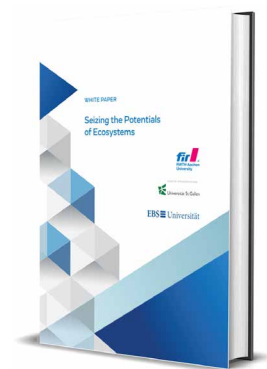
Seizing the Potentials of Ecosystems
» **To Download [German PDF]**

Industrial Sustainability
Das integrierte Management für eine nachhaltige Organisation
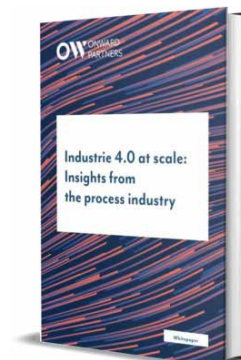» **To Download [German PDF]**

Whitepaper "How to Transform Manufacturing Companies"
» **To Download [PDF]**

Whitepaper "Realizing Open IIoT Architectures to Scale Industrie 4.0"
» **To Download [PDF]**

Whitepaper "Industrie 4.0 at scale – Insights from the process industry"
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FIR-Edition "Aachen Digital Architecture Management (ADAM). Your Guide to the Digitally Connected Enterprise"
» **To Download [English PDF]**
» **To Download [German PDF]**

Position Paper "Aachener Digital-Architecture-Management (ADAM) – Wegweiser zum digital vernetzten Unternehmen"
» **To Download [German PDF]**

VoBaKI – Procedure for the evaluation and selection of AI competences in SMEs

How can SMEs be empowered to independently identify the necessary processes and competencies in the life cycle of an AI use case and develop appropriate sourcing strategies?

» ,VoBAKI'-Vorgehensmodell – Download now free of charge [German PDF]
» ,VoBAKI'-Vorgehensmodell: Erklärvideo [To German YouTube Video]
» ,VoBAKI'-KI-Aufgaben-Kompetenzen-Tool – Download now free of charge [German XLSX]

Take Part: Our Working Groups and More
» Our Roundtables and More

Further Whitepapers / Positions Papers
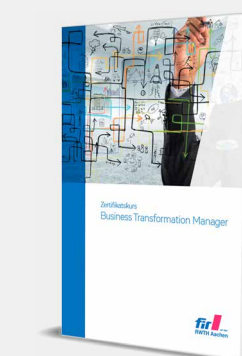» Industrie 4.0 Maturity Center
» FIR an der RWTH Aachen

For Further Training: Our Qualification Offer

Certificate Course "Digital Transformation Expert"
Implementing the digital transformation strategically

» **To the English Course**
» **To the German Course**

Certificate Course "Business Transformation Manager"
Successfully Transforming Companies

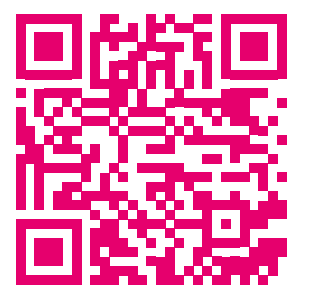» **To the German Course**

CDO Aachen 2024

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28. Aachener Dienstleistungs-forum 19.03.2025

„Service-Transformation –
erfolgreich vom Produkt- zum Lösungsanbieter
So gelingt die Twin-Transition im Service!"

Register now:
anmeldung.dienstleistungsforum.de

dienstleistungsforum.de

fir at RWTH Aachen University | SERVICE PERFORMANCE CENTER

Save Your Ticket

Congress on Business Applications Aachen 25.06.2025

Mit digitalisierten Prozessen und den richtigen Systemen die Zukunft der industriellen Auftragsabwicklung gestalten

Am 25. Juni 2025 steht alles im Zeichen innovativer Lösungen für eine zukunftsfähige IT-Systemlandschaft. Entdecken Sie beim CBA Aachen 2025 und dem vorgelagerten Praxistag, wie sich ERP, MES, APS, IoT-Plattformen und das Supply-Chain-Management verändern.

Diskutieren Sie mit Vertreter*innen der Industrie und Softwareanbietern über die praktischen Herausforderungen und Potenziale einer modularen, zukunftsfähigen Auftragsabwicklung.
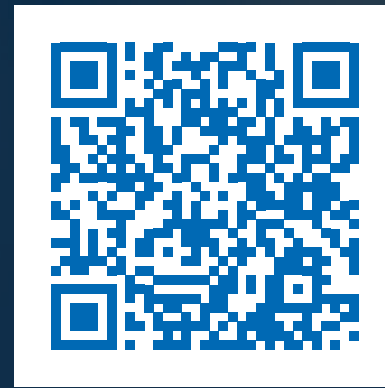
Freuen Sie sich auf:

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▌ Interaktive Workshopse

tickets.cba-aachen.de

fir at RWTH Aachen University

INTEGRATED BUSINESS APPLICATIONS

Your feedback is important to us!

To make the next CDO Aachen even better for you, we ask you to fill out the feedback form for the event online.

We welcome constructive criticism as well as praise and suggestions.
You can find the feedback form at:
feedback-participants.cdo-aachen.de

Register now!

CDO Aachen 2025

Convention on Digital Opportunities
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Register now!
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