

DIGITAL TWINS

How to Become a Digital Champion

by Tim Schojohann, Cryptar CEO and Plattform Industrie 4.0 member and co-author

In this talk, Tim Schojohann will give an outlook on the upcoming Plattform Industrie 4.0 publication: Becoming a digital champion - Digital transformation towards data economy. This upcoming publication has been written by the CCM working group, focusing on underlying requirements to enable minimum viable collaboration in a multilateral context.

A Bicycle Ride: The Digital Product Passport 4.0

by Rüdiger Fritz, SAP

A bicycle ride: The Digital Product Passport 4.0: Rüdiger Fritz will explain the 'positive' OI4 approach to DPP burden by illustrating the current state and roadmap of OI4 DPP-Working Group. He further will give some insights of the current DPP legacy.

Consortial Project Component Suppliers: All about Phase II & Follow the Twin Challenge - HMI edition

by Britta Waligora & Christian Günther, complement

Britta Waligora and Christian Günther will provide insights about the formation of an OI4-internal consortial project leading to an AAS platform. As Phase 1 is closed they will also draw an outline for activities of and roadmap of Phase 2.

digiz - Innovation Center

by Dr. Arnd Menschig, Zeiss

The presentation introduces digital twin building during asset production at the manufacturer and initial asset operation at the customer using standard communication protocols, micro service software architecture and innovative deployment technologies. For the digital twin usage a harmonized data delivery within various sensor pipelines utilizing well-established protocols and uniform semantics is discussed.

Getting a Head Start in the World of AAS Dataspaces with AAS Dataspace for Everybody & Eclipse BaSyx

by Frank Schnicke, Fraunhofer IESE

AAS dataspaces promise a wealth of benefits for participating organisations. However, building and maintaining your own AAS infrastructure to join a dataspace is a complex task. Existing solutions such as Eclipse BaSyx and the AAS Dataspace for Everybody project allow organisations to get started immediately - without having to worry about every detail.

February 28th afternoon

IT / OT

DEXPI – the Entry into Asset Lifecycle Information Management in Process Industry

by Wilhelm Otten, DEXPI

The current information management in the asset lifecycle of the process industry based on drawings/diagram (analog) and Excel lists requires high effort, is complex and error prone. The solution for this problem is a consistent information management along the asset lifecycle, from process development till operation and demolition of the plant, covering the essential disciplines, process engineering, machine/apparatus, piping, and automation.

Application Management

By Sam Greising, Flecs

The content of the presentation is to reflect the current status of the Application Management Working Group. We will also take a look at the OKRs for 2024. At the end of the presentation, I will give an overview of the World Café, which the working group is organizing the next day for all interested parties.

Development Kit for OI4 Compliant Edge Applications

by Armin Beck, Hilscher

The OI4 Core Library simplifies and standardizes the development of Open Industry 4.0 Alliance compliant apps. According to the OI4 Development Guideline, developers can model a complete app using the powerful API of the SDK.

New Reference Architectures

by Rüdiger Fritz, SAP & Michael Riester, Endress + Hauser

Rüdiger and Michael (OI4 WG Leads of CCC and OOC) will present the current developments in the approach to Use Case oriented Architectural Guardrails.

Panel Discussion: From Integrated Engineering to Integrated Operations

Moderated by Ricardo Dunkel, OI4

From Integrated Engineering to Integrated Operations
The presentations of the IT/OT block will be wrapped up by this panel discussion.

Guests:

Frank Maurer, Boehringer Ingelheim *
Franz Durmeier, Endress+ Hauser
Wilhelm Otten, DEXPI

February 29th morning

Morning Run

by Christian Heinrich, XITASO



Kickstart your day with an energizing morning run with Christian.
Meeting point: 7 a.m. at das flax allgäu, Schlosserstr. 4, Dietmannsried

Manufacturing-X / Factory-X / SMEs

About the Manufacturing-X and Factory-X Initiative

by Gerorg Kube, SAP & Dominik Rohrmus, SIEMENS

What are the goals of Manufacturing-X, what flagship projects and use cases, as well as organizations and committees, are hidden behind these collaborative projects and supported initiatives? Explanation using the example of FX - Open Industry 4.0 Alliance companies, and Open Industry 4.0 Alliance is itself active within the consortium

Factory-X - How Service-oriented Business Models are Paving the Way for Value Creation in Ecosystems

by Jonas Wirth, Trumpf & Dr. Andreas Graf Gatterburg

How to make Factory-X Use Cases accessible to the entire industry and ensuring added value for all? Only the efficient merging and utilization of existing business model development approaches in combination with the development of the right operating principles will enable successful future value creation for large and small companies in ecosystems

Internationalization - How Communities Can Benefit

by Ingo Sawilla, Trumpf & Dr. Sebastian Schneider DMG Mori

Digitalization transcends national borders, which is why the initiative is being introduced early on to the Federal Ministry for Economic Affairs and Energy (BMWK), industrial companies, as well as associations and multipliers on an international scale

Factory-X: An Opportunity for SMEs – Potential of Digital Data Exchange in the Industry

by Rica Holzmann, Soffico

Rica Holzmann is a member of the management board of the software company soffico GmbH. In her opinion, the Factory-X funding project has great potential, especially for SMEs, to drive digital innovation in order to strengthen their sustainability, resilience and competitiveness on the basis of their own data, which has been used little or not at all to date.

Navigating Challenges in Industrial Manufacturing

by Matthias Ordibina, PwC

Companies in industrial manufacturing currently face a variety of challenges that require different solutions. Innovative technologies and software solutions promise to be key drivers for efficiency improvements or cost savings within their own organizations. However, they typically address only specific aspects of a strategy and compete with large transformation projects for budgets. With a market survey, we, as PwC Holdings, aim to provide transparency and demonstrate where needs and opportunities lie, which can provide important impulses for both the current and the next generation of "Hidden Champions."

Next Level of Knowledge Sharing

by Belizar Pakic, Pakic GmbH & Ekrem Yigitdöl, OI4

Belizar and Ekrem will be talking about the expectations SME have and how knowledge can be shared among companies.

February 29th afternoon

From Connectivity to Artificial Intelligence?

AI in Production – Potentials of AI and Neural Modeling for Industry 4.0

by Prof. Dr. Marcus Grum, Uni Potsdam

The potential of AI is diverse and exciting. The context of Industry 4.0 in particular is predestined to clarify this potential through AI-based application systems, and progress it.

AI – Real World Use Cases

by Adrian Kostrz, NTT Data

Adrian will show real Use Cases in which AI is being used – with many examples

What If: Imagine Crafting a Narrative Where Everything Turns Out Just Right, and How Technologies Like IIoT and AI can Help You Rewrite It

by Francesca Margherita Chifari, 40factory

Interactive presentation

How AI can Improve ROI in Your Industry 4.0 Projects

by Vikas Goel, Tvarit

The presentation tackles the pressing concern of suboptimal Return on Investment (ROI) within Industry 4.0 projects, offering actionable insights to double its effectiveness. We navigate through the obstacles that impede success - extended implementation times, challenges in adoption, less-than-optimal results, and constraints related to data availability and volume. By delving into practical strategies to overcome these challenges, the presentation provides organizations with a roadmap to attain more substantial outcomes, fostering a transformative impact on their Industry 4.0 initiatives.