



EUROPEAN 4.0 TRANSFORMATION CENTER



3rd Practice Forum

Realize Digital Transformation

Aachen, October 10/11, 2018

Including plant tour
through the new e.GO Life
series production

Welcome to the 3rd Practice Forum



Prof. Dr. Günther Schuh,
CEO, e.GO Mobile AG



Dr. Rupert Deger,
Managing Director, European 4.0 Transformation Center

Realize Digital Transformation

Since establishing e.GO Mobile in 2015, we have shown its leaps of progress, enabled by digital and agile business processes, at our annual Practice Forum taking place at RWTH Aachen Campus.

After test-driving the e.GO Life in autumn 2017, in October 2018 you are going to get deep insights into e.GO's Industrie 4.0 series production in Aachen Rothe Erde. This is how we fulfill the disruptive aspiration of electrical cars that are both affordable and inspiring.

Key means to this end is an agile and digital process culture throughout the entire enterprise. That is how we have accelerated e.GO's organizational and technical development enormously, and have reduced investment barriers to entry in a game changing way.

The Aachen-originated framework called Internet of Production constitutes your compass to digital renewal. The European 4.0 Transformation Center will show you at this year's Practice Forum, how to apply the levers pivotal to rapid realization of your own 4.0 Transformation.

We are looking forward to supporting you in this endeavour, and to welcoming you in Aachen to the 3rd Practice Forum – Realize Digital Transformation.

Sincerely yours

Prof. Dr. Günther Schuh

Dr. Rupert Deger

The Practice Forum Event

“Realize Digital Transformation”:

Visit our new Industrie 4.0 series factory and experience the Internet of Production for engineering, manufacturing and customer processes.



3rd Practice Forum Agenda

October 10		Location
From 17.30	Registration	Atrium Cluster Smart Logistik Campus-Boulevard 55 Aachen
18.30	Official Opening of Industry Exhibition	
19.30	Dinner and Networking Opportunity	

The 3rd Practice Forum offers you:

-  Keynote presentations about the Internet of Production, and the Mobility of the Future
-  Deep dives into our practical 4.0 Transformation experiences related to
 - User Cycle
 - Development Cycle
 - Production Cycle
 - Digital Enterprise Architecture
-  Tour through our new Industrie 4.0 factory for e.GO Life series production
-  Cross-discipline industry exhibition of our co-hosting Members of RWTH Aachen Campus

Co-hosting Members of RWTH Aachen Campus:



3rd Practice Forum Agenda

October 11		Location
From 08.00	Registration and Industry Exhibition	Atrium Cluster Smart Logistik Campus-Boulevard 55 Aachen
08.30	Welcome	
Plenary Keynote Presentations		
08.45	Keynote European 4.0 Transformation Center The Internet of Production and its disruptive impact on manufacturers	Atrium
09.15	Keynote e.GO Mobile AG The electrical and digital renewal of urban mobility	
10.00	Coffee Break and Industry Exhibition	Bus
10.30 Choice of Breakout Sessions:		e.GO Mobile Showroom Demonstration Factory eLAB Atrium Atrium
4.0 Transformation of the User Cycle		
4.0 Transformation of the Development Cycle		
4.0 Transformation of the Production Cycle		
Holistic Digital Enterprise Architecture		
12.30	Lunch and Industry Exhibition	Atrium
13.30	Transfer to e.GO Series Factory	Bus
14.00	Presentation of e.GO Series Factory	e.GO Series Factory Lilienthalstr. 1, Aachen
15.00	Tour of final assembly and intralogistics facility	
15.45	Concluding Discussion	
16.00	Transfer back to RWTH Aachen Campus	Bus

Contributors



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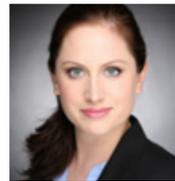
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PTC



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European 4.0 Transformation Center GmbH

Your choice of Breakout Sessions

4.0 Transformation of the User Cycle

Join us at the e.GO Showroom at RWTH Aachen Campus to explore our digital customer processes and business models. Together with our members Ad Ultima and justSelling, we dive into the internal and external customer journey before the purchase decision, supported by webshop, configurator, and CRM. During product usage, the e.GO driver app and e.GO workshop app come into play, both benefitting from our consistent and flexible services architecture, which starts with the vehicle connectivity of the e.GO Life.

4.0 Transformation of the Development Cycle

Agile product development is driven by feedback from various sources: Partial and complete prototypes in the early phase, comparison with more and more detailed requirements and test criteria in the industrialization process, target value management, and eventually field usage data from vehicle connectivity. Join the discussion together with our member PTC, in order to understand how technical authoring systems, data management, requirements management, system modeling, and IoT technologies interact. This includes the early-on integration of assembly process engineering with in the process and IT domain of product development.

4.0 Transformation of the Production Cycle

e.GO's series production relies on a continuous digital flow starting during product development. This domain includes order management, warehouse management, manufacturing execution, as well as quality management, all closely linked and with a high degree of visibility and monitoring. Our greenfield situation allows for an ideal set-up that helps us achieve low cost levels despite low economies of scale. Our members PSI Automotive & Industry, Atlas Copco and Lorch substantiate this with automated interaction examples between the digital and physical processes.

Holistic Digital Enterprise Architecture

Transparency, traceability, and analytics form the core of each 4.0 Transformation, especially when they are applied in a closed loop moving upstream, contrary to the usual process flows. This implies overarching guidelines for implementing and using the classic major software applications within their process domains framing data structures, nomenclatures, and data administration. This is the fundamental requirement to allow for access and establishment of overarching context in any direction. Modern Internet of Things technologies are needed to implement this within our Internet of Production architecture in a flexible and lean manner. Together with our members elisa and PTC, we will share examples of specific apps managing content and processes from several sources across domains, and how they are developed rapidly in the spirit of a continuous improvement approach.

Event Locations



Cluster Smart Logistics / Demonstration Factory Aachen

The Cluster Smart Logistics on RWTH Aachen Campus explores the complex digital interrelation between logistics, production and services. The Demonstration Factory is a core element of the Cluster Smart Logistics, and allows for prototype and pre-series production, as well as Industrie 4.0 applications in action.



Cluster Production Engineering / e.GO Showroom

The Cluster Production Engineering on RWTH Aachen Campus was opened in May 2017. e.GO is located there with its offices, ramp-up factory for pre-series production, and product showroom.



eLAB

eLAB is the laboratory for electrical mobility featuring an open research infrastructure. The range available for industry clients includes technology development, testing and prototyping. eLAB resources can be rented and used flexibly. The European 4.0 Transformation Center is headquartered there since June 2018. Together with PTC, HPE, OSISoft and elisa, the E4TC digital shadow project equipped the eLAB battery cell production line with IoT and Augmented Reality technologies.



e.GO Series Factory

Construction of the e.GO Series Factory in Aachen Rothe Erde was started in spring 2017 and completed about 12 months later. After being equipped and ramped up, it will host the series production of the e.GO Life.

This initial e.GO factory employs Industrie 4.0 processes and methods, serving as a template for future potential sites.

Practice Forum Hosts



Cluster Smart Logistics on RWTH Aachen Campus

More than 350 individuals from science and industry are currently engaged in research projects in the Smart Logistics Cluster, focusing on solutions for the flow of information and goods in the cyber-physical and real-time connected world. Industrie 4.0 and Industrial Internet are the main themes.

www.rwth-campus.com



European 4.0 Transformation Center

The European 4.0 Transformation Center is a unique platform to realize and experience holistic process and solution architectures for Industrie 4.0 use cases. Under the heading "Realize Digital Transformation", the Center bundles digital enterprise process knowledge of its research, technology and industry partners.

www.e4tc.rwth-campus.com



e.GO Mobile AG

e.GO is a dynamic electrical car start-up company residing on RWTH Aachen Campus. e.GO's mission is to develop affordable electrical cars that are fun and practical. This ambitious objective is supported by state-of-the-art digital and manufacturing processes.

www.e-go-mobile.com

Co-hosting Campus entities



Co-hosting Members of RWTH Aachen Campus

AD ULTIMA GROUP



Ad Ultima

Ad Ultima was founded in 2000 and is based in Kortrijk, Belgium. Ad Ultima Group provides IT solutions in the areas of ERP, CRM, PLM and CAD to industry customers aiming at process efficiency improvements. www.adultimagroup.com

Atlas Copco

Atlas Copco Tools Central Europe

Atlas Copco Tools Central Europe GmbH is part of the Industrial Technique business area of the Atlas Copco Group. Being a pioneer in the field of Smart Connected Assembly they supply intelligent solutions towards economic, secure and ergonomic manufacturing processes to a widest variety of industries. Committed to sustainable productivity. www.atlascopco.com



Elisa

Elisa from Helsinki is Finland's market leading provider of telecommunications, IT and online services with 2.3 million private and business customers. Elisa Smart Factory offers solutions for the Internet of Things, including predictive maintenance, M2M, and virtual monitoring. www.elisa.com/iot



justSelling

justSelling offers E-Commerce consulting, strategy and processes, brand and CI, user interface and design, digital transformation, search engine based marketing, advertisement, training, webshop implementations, and hosting services. www.justselling.de



Lorch Schweißtechnik

Lorch Schweißtechnik GmbH is a leading manufacturer of electric arc welding systems for industrial applications, metalworking, partially automated solutions and robot automation systems. For 60 years, Lorch's premium quality systems have been manufactured in Germany at one of the world's most cutting-edge manufacturing plants for welding equipment and exported to more than 60 countries. The welding equipment engineered by Lorch merges first-rate suitability for real-world applications with superior ease of use and outstanding efficiency, setting new technological standards in the marketplace. www.lorch.eu



PSI Automotive & Industry GmbH

Headquartered in Berlin, PSI Automotive & Industry is a leading international provider of software solutions for the machinery, automotive and supplier industries. The company develops and delivers modular integrated solutions for production management (incl. ERP, MES, SCM, APS) under the product brand PSIpenta. www.psipenta.de



PTC

PTC is a global technology provider of the leading IoT and AR platform and field-proven solutions (CAD, PLM, Requirements Management, Service Lifecycle Management) that transform how companies create, operate and service products. PTC has over 28,000 customers world-wide. www.ptc.com

Further Members at the European 4.0 Transformation Center:



Organization

Date

October 10/11, 2018

Primary Event Location

RWTH Aachen Campus
Cluster Smart Logistik
Campus-Boulevard 55
52074 Aachen

Dinner Event

Get together in the Atrium of Cluster Smart Logistik on October 10, 2018

Your contact

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Conference Fee

€180 plus VAT

The Conference Fee includes admission, materials, lunches, breaks and dinner event. Please pay the fee only after receiving an invoice. In case of cancellation until one week before the event, an administration charge of 100 Euros will be invoiced. In case of later cancellation or no show, the full amount will be invoiced.

Registration

Please register with Campus Forum, Aachen, no later than October 4, 2018 using the form on the next page or our online registration at www.campusforum.de. You can also make a preliminary reservation over the phone which we will guarantee based on your full registration by October 4, 2018. The number of seats is limited. We confirm registrations according to the order in which we receive them.

Accommodation

You can make hotel room reservations through

aachen tourist service e.v.
Postfach 10 22 51
52022 Aachen
Phone +49 241 18029-50
Fax +49 241 18029-30
E-Mail booking@aachen-tourist.de
Internet www.aachen-tourist.de/hotels

**Further information is available at:
www.campusforum.de**

Registration

3rd Practice Forum | Realize Digital Transformation | October 10-11, 2018 | Aachen

This is my binding registration to attend the 3rd Practice Forum "Realize Digital Transformation" (Conference Fee 180 Euros)

Second name*	First name*	Title
Company*	Department	
Street / P.O. Box*	Zip code / Location*	Country
Phone*	Fax	Email*
Signature	Date	

*Required fields

Please send the form to Campus Forum GmbH, Steinbachstr. 25, 52074 Aachen, Germany or send it by fax to +49 241 80225 75. In case of several registrations please copy the reply card. In addition there is an option to register online at www.campusforum.de. I hereby agree that my name and my business address will be registered exclusively for the purpose of the organisation of the seminar, and that my name and address will be electronically processed and saved. Information on data privacy protection: your data will be used for postal submission of similar offers (see GTC).

We would be pleased to send you event information: also per email only per email

We may use your data for purposes of advertising per post or per email unless you request not to.