

smartFactory^{KL}[®]

Newsletter 3/2019

Dear Mustermann,

During the last few months, our definition of autonomous production has made great progress. After discussions with our membership, we have put our theoretical research results to the test. Our listeners were enthusiastic and expressed the expected benefits from practical application. We are scientists and researchers and as such we are firmly grounded in reality. The industry's requirements are reflected in our assessments of the production systems of the future. This process of reflection is very important to us and confirms that we are on the right path. Only then do we begin to put our ideas into practice.

On October 24, 2019, we have scheduled an exclusive press conference where we will announce our definition of autonomous production and the plans for our new demonstrator. The next Newsletter (December) will provide more details.

We have been building the new demonstrator in partnership with our members for several weeks. Our goal is to show a technical implementation of our theories. We are on a tight time schedule leading up to the Hannover Messe 2020, where we hope to present our initial results. Our confidence levels remain high. At SmartFactory-KL, we can rely on a very highly motivated team of professionals, technicians, and researchers, who work well together across multiple departments. In addition, we are fortunate to have strong support from our membership.

Sincerely,

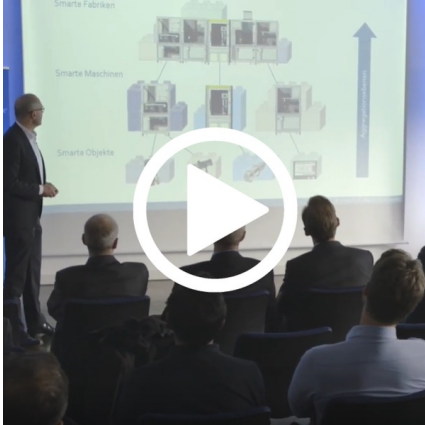


Prof. Dr.-Ing. Martin Ruskowski, Chairman of the Executive Board of Technologie-Initiative SmartFactory KL e.V.

Successful 11th Innovation Day

The topic of 5G is of interest both to the city of Kaiserslautern as a pilot region as well as to the region's strong agricultural and industrial manufacturing sectors. Accordingly, the title for the 11th Innovation Day at SmartFactory-KL is **"5G: Networking for Business, Wine, and Science"**.

5G is considered a key technology for digital communication. Industry, car manufacturers, cities, and rural areas all rely on fast and stable data transmission. **Prof Martin Ruskowski** Chairman of the Executive Board of the Technology Initiative presented a lecture on "The Importance of 5G in Production". **Dr. Martin Verlage**, managing director of KL.digital, explained the challenges of implementing 5G in the city in his presentation "5G, Smart City, Digital City - Pilot Region Kaiserslautern". **Dr. Hermann Buitkamp**, expert for agricultural technologies at VDMA, spoke about "The importance of local, cellular networks in agriculture". The final speaker was oenologist **Prof. Dominik Durner** from the Neustadt Wine Campus.



All speakers, regardless of the subject of their expertise, stressed the need for reliable and secure data connections everywhere in Germany. In particular, the future viability of our rural areas depends on digital radio networks.

[The Innovation Day video is available here](#)
(External link YouTube, German language).

SmartFactory-EU established



Three renowned institutes signed an agreement establishing the **SmartFactory-EU EWIV** on September 26, 2019 in Eindhoven/The Netherlands. The new European association will have its headquarters in Kaiserslautern, with Prof. Dr. Dr. h.c. Detlef Zühlke to serve as the founding managing director.

The desire has been expressed since 2017 within the EU to place the numerous ongoing activities in the member states under one roof with the aim of strengthening Europe's position in the global marketplace. Under the leadership of **Flanders Make/Belgium, Brainpoort Industries/The Netherlands and SmartFactory-KL/Germany**, this has now been achieved – in the form of SmartFactory-EU EWIV. The extension EWIV indicates the association is based on EU law.

[Read the press release here](#)

SmartFactory-KL Working Groups

Three newly constituted working groups are up and running at SmartFactory-KL! The WGs are focused on the following topic areas:

WG1 – Cyber-physical production systems: *Design and operate cyber-physical production systems for sustainable factory floors in the future.*

WG2 – Connect & Control: *Create a manufacturer-independent platform for autonomous process controls in the production environment.*

WG3 – Cognitive factory: *Develop a cognitive factory that dynamically makes decisions to improve production.*



With broad participation by member companies, all WGs held an initial kick-off meeting in Kaiserslautern during the month of August and work is now proceeding at full swing.

Are you interested in joining us?

The working groups are open to all regular members of SmartFactory-KL.

Project leader Jesko Hermann

(jesko.hermann@smartfactory.de) is glad to help with all your questions.

Trade Conference "Artificial Intelligence (AI) in Production" at the Economics Ministry in Mainz



Under the sponsorship of State Secretary Daniela Schmitt, regularly scheduled trade talks have become an established institution. On September 5, the major theme was "AI in Production". Members of SmartFactory-KL staff clearly dominated the list of speakers. Prof. Martin Ruskowski, Chairman of the Executive Board presented a lecture on **"Industrie 4.0 and AI"**, where he reviewed the history of Industrie 4.0 as well as the possibilities and boundaries of AI. The sentence most often quoted by the press reads: "Artificial Intelligence must respect human rules." Ralph Traphöner from Empolis spoke about **"Production Data Analytics"**, Dr. Tina Hardt (Arend Process Automation) addressed **"AI in Project ProData"** and Dr. Marius Orfgen (MiniTec Smart Solutions) presented the topic of **"Data Glasses in Service"**. Only one speaker came from a company that is not yet a member of SmartFactory-KL: Dr. Johannes Weiser from EWM reported his experiences with **"AI in welding processes"**. An audience of around 50 members listened to the exciting presentations given by the speakers from Rhineland-Palatinate and participation was high in the subsequent workshops. Overall, the participants were very pleased with the meeting. In closing, Dr. Heinz Kolz, from the Industrial Affairs Section at the Ministry of Economics, emphasized that he was already starting to prepare the next conference.

Press Conference, October 24, 2019.



On October 24, 2019, SmartFactory-KL has scheduled a **Press Conference**. The subject is the announcement of our definition of autonomous production. For the first time, we will present our declaration and our plans for the new demonstrator to the public. In addition to Prof. Martin Ruskowski, Chairman of the Executive Board of SmartFactory-KL, Andreas Huhmann, Strategy Consultant for Connectivity + Networks at Harting and Member of the Executive Board of SmartFactory-KL and Prof. Hans Dieter Schotten, Science Director at DFKI, head of the Intelligent Networks research and Chair of the Department of Radio Communications and Navigation at the Kaiserslautern University of Technology.

If you would like to join us, you are welcome to register at the SmartFactory-KL press office:
ingo.herbst@smartfactory.de

Top 3 media publications



Elektroniknet.de: SmartFactory-KL jetzt auf EU-Ebene gegründet (German language only)

> [Read here](#)

Süddeutsche.de: Künstliche Intelligenz muss menschlichen Regeln folgen (German language only)

> [Read here](#)

Industry-of-things.de: Daten in der Industrie und wie man sie schützt (German language only)

> [Read here](#)



Technologie-Initiative SmartFactory KL e.V.
Trippstadter Straße 122
67663 Kaiserslautern

T +49 (0) 631 20575-3400
F +49 (0) 631 20575-3402

info@smartfactory.de
www.smartfactory.de

Please [click here](#) to unsubscribe from our mailing list.