

# smartFactory<sup>KL</sup><sup>®</sup>

SF Newsletter 1/2019

Dear Sir or Madam,

the final countdown has started: Less than three weeks to go until Hannover Messe will begin. SmartFactory-KL will present its Industrie 4.0 production plant together with the German Research Center for Artificial Intelligence (DFKI) and 15 participating partner companies in hall 8, booth D18. We cordially invite you to visit us and offer you [a voucher for a free entry ticket](#) for the full week at Hannover Messe. Please follow the instructions in the description.

At the world's most important industry trade fair we are demonstrating innovations in the fields of Artificial Intelligence, Infrastructure & TSN and Smart Safety.

This year, we expect increasing interest from industrial users of Industrie 4.0 technology as well as a rising number from visitors from abroad. I look forward to seeing you in Hannover.

Thank you for your continued interest in our work!

Sincerely,



Prof. Dr.-Ing. Dr. h.c. Detlef Zühlke,  
Chairman of the Board of Technologie-Initiative SmartFactory KL e. V.



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## Deutsche Telekom newest member of SmartFactory-KL



Deutsche Telekom is one of the world's leading integrated telecommunications companies, with some 168 million mobile customers, 28 million fixed-network lines, and 19 million broadband lines. "Many of the advances in the world of Industrie 4.0 demand new means of communication, such as the use of 5G technology that we are currently introducing to the SmartFactory-KL. Deutsche Telekom can provide optimal support to this effort", said Prof. Dr. Detlef Zühlke.

[> More information](#)

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## Empolis joins SmartFactory-KL



Empolis combines artificial intelligence technologies for CRM and service management in cutting-edge cloud solutions. „I am very pleased that Empolis has emerged from the environment of the local institutes, especially the DFKI, and will now work with us in the field of Artificial Intelligence," said Prof. Dr. Detlef Zühlke.

[> More information](#)

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## AI in manufacturing



Artificial intelligence as a partner for humans – that is SmartFactory-KL's motto for this year's Hannover Messe. Together with our partners, we will demonstrate new use cases on the Industrie 4.0 production plant. The technology is able to quickly and reliably evaluate large volumes of data and provide filtered, context-related results to the operators. Augmented reality (AR) has proven to be an efficient tool for visualizing this information – in an easy-to-understand way.

[> More information](#)

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## New infrastructure puts TSN to the test and facilitates AI applications

The new infrastructure concept by the partner consortium at SmartFactory-KL represents a scalable solution that is very appropriate for Industrial Intelligence applications. In addition, the use of TSN for the data exchange between infrastructure and server ensures transmission quality.

[> More information](#)

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## Safety for modular production plants at run time



The safety concept is designed to protect people from the risk associated with manufacturing jobs. Increasingly complex, modular Industrie 4.0 production plants demand a new safety concept. Thanks to Artificial Intelligence (AI), it is now possible to make modular work stations much safer. The SmartFactory-KL partner consortium shows how to use AI to minimize the safety risk for Industrie 4.0 production plants at the Hannover Messe on April 1-5, 2019.

[> More information](#)



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## User forum for members

SmartFactory-KL strives to strengthen the exchange among its members. At the first user forum, 16 participants from 13 members companies shared their experience with Industrie 4.0. The participants of the forum agreed that such a format is a great opportunity to get to know other members and to network. We will carry out a user forum two to three times per year and set a topic such as AI, retrofitting or TSN/5G for each meeting.

## Top news articles



**„We are the global leader in AI research“**  
Interview with Prof. Dr. Detlef Zühlke in atp Magazin  
(Print edition february 2019; Original text in German)

**„5G in production“**  
Article in maschine+werkzeug plus interview with Prof. Dr. Detlef Zühlke (Print edition february 2019; Original text in German)

**„AI from the DFKI point of view“**  
Interview with Prof. Dr. Martin Ruskowski with Ingenieurverstehrer  
> [Read more](#) (Original text in German)



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