

smartFactory^{KL}[®]

Newsletter 1/2020

Dear Mustermann,

Best wishes to you and your loved ones at the start of this new year!

At SmartFactory-KL, we have a number of goals for 2020 that we want to accomplish in time for the Hannover Messe (Trade Fair):

- Whitepaper about *Production Level 4*
- Assembly and completion of a second demonstrator
- Documentation for the demonstrator and contribution of those involved in its construction

That should all be achievable. However, a lot of work is associated with each point. After all, we are breaking new ground with our demonstrator and also with our concept of production in the future – *Production Level 4*.

We are providing a summary of some of our activities in this newsletter.

Enjoy reading this first edition of 2020.



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

A look back: Press Conference for *Production Level 4*



We introduced the term *Production Level 4* for the first time to the public. *Production Level 4* is the name given to describe a new stage in the development of Industry 4.0 – a new concept that does not envision deserted robotic factories. In contrast, Prof. Ruskowski said: "Humans will and must be able to change every decision made by a machine. What happens in production will remain our responsibility. This responsibility can and should not be delegated to any machine or form of artificial intelligence!" Andreas Huhmann from Harting GmbH and member of the board of SmartFactory-KL said, "The new demonstrator is built on the knowledge gained in recent years and the next step promises even greater flexibility." Prof. Hans Dieter Schotten, science director at DFKI, views 5G as a key enabling technology: "AI methods cannot be used expediently if lacking fast and secure data links." In this respect, 5G is crucial for the realization of Production Level 4.

Information about *Production Level 4*

We made short videos about the subject. In the clips, Prof. Ruskowski answers the following questions:

**Production
Level 4**

- What does the new vision for SmartFactory 2025 look like? ([LINK](#))
- How does *Production Level 4* differ from Industrie 4.0? ([LINK](#))
- How do German Industrie 4.0 enterprises rank in global competition? ([LINK](#))
- Why don't we use the term autonomous production? ([LINK](#))

Here are some links to selected publications about *Production Level 4* (German only):

uk.dfki.de/DFKI_NEWS_ePaper/epaper-DFKI_News_44_d/#24

www.elektrotechnik.vogel.de/neues-konzept-production-level-4-stellt-menschen-in-den-mittelpunkt-a-877361/

www.elektroniknet.de/markt-technik/industrie-40-iot/smartfactory-kl-verkuendet-production-level-4-170544.html

www.computer-automation.de/steuerungsebene/steuern-regeln/artikel/170436/

Online Interactive Presentation of *Production Level 4* & our 2020 exhibit stand

If you visited us at SPS - Smart Production Solutions in Nuremberg, you may have already tried the interactive presentation of our new demonstrator to be setup at the Hannover Trade Fair 2020. Every year until 2025, we will continuously develop the demonstrator in the context of *Production Level 4*. The focus in 2020 is on a new software architecture and exchanging components.

The interactive presentation also includes a chapter on *Production Level 4*, where we have compiled documents and film clips for you.

In addition, the SPS exhibit also featured the topics of 5G and intelligent worker support. We had numerous conversations and made many new contacts at the stand.

We also made it a point to schedule and visit other exhibitors and to participate in the panel discussions and lectures. For example, Andreas Huhmann, member of the Executive Board, moderated the "Industrie 4.0: On the path to a real smart factory" lecture.



Of the over 50 SmartFactory-KL member companies, roughly 20 provided exhibits at Nuremberg in 2019. Attracting more than 60,000 visitors, SPS is considered an important industry gathering for automation companies in Europe.

Interactive demonstrator (German only)
smartfactory.pageflow.io/production-level-4

Film about the demonstrator (German only)
www.youtube.com/watch?v=g-x19duz6E0

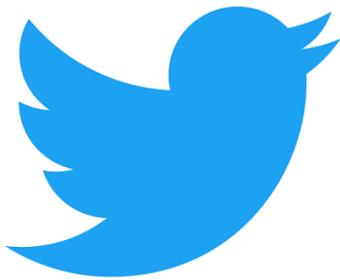
Changes to the Board



Dr. Thomas Bürger, because of a change in employer, has resigned from the Executive Board with an effective date of 31.12.2019. "My work on the Executive Board was very rewarding. SmartFactory-KL has big plans that I will continue to monitor with my best wishes for their success," said Bürger. "In any case, I'm going to take a look at the new demonstrator at the Hannover Messe 2020." Prof. Martin Ruskowski expressed his appreciation to his fellow board member: "I regret that Thomas is leaving us, but fully understand his reason. We will miss the good cooperation and his constructive ideas."

Dr. Thomas Bürger has been an active member of the board since his election on May 20, 2015. His successor will be voted on at the next general meeting.

Twitter @SmartFactoryKL



We have been more active on Twitter for several months. The number of "Impressions" has risen from ~16,000 (Nov. 2018) to the current ~120,000 (Nov. 2019). The numbers of followers and profile visits are also steadily increasing. We would love for you to "follow" us too. Via this channel, we can provide you with news and information on the latest interesting topics concerning AI, *Production Level 4*, and the production of the future. [@SmartFactoryKL](#)



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