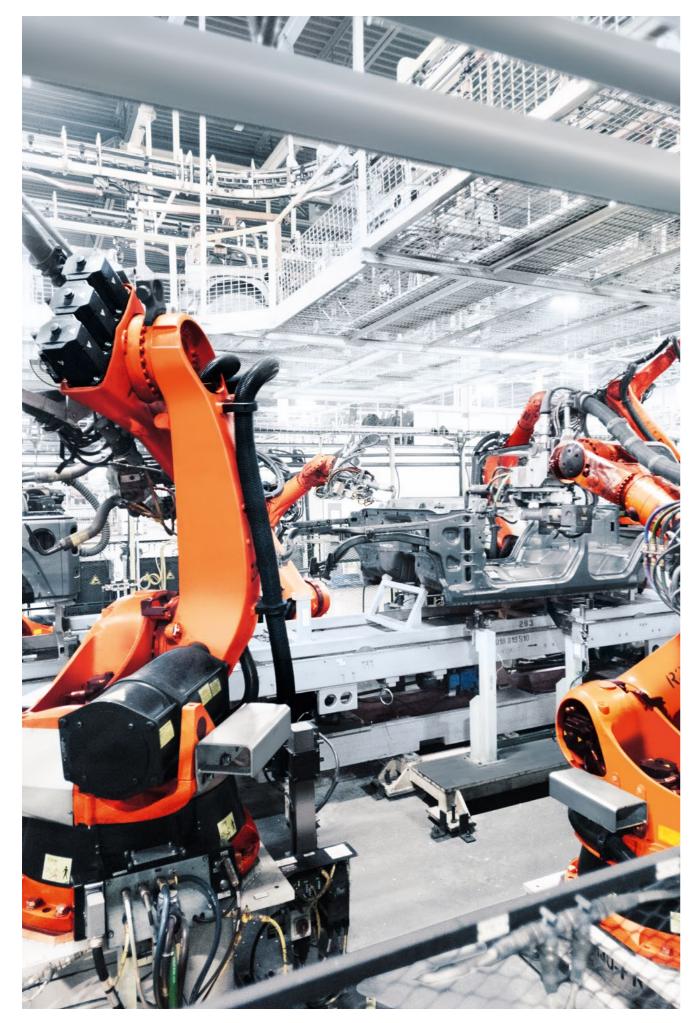
KUKA



KUKA Industrial IoT offering

_your way forward to IIoT





KUKA Consulting

Keeping an eye on the big picture

With our Industrial IoT solution, we raise your factory to the next level of productivity and operational excellence.

We offer you a tailored end-to-end IIoT solution featuring a modular framework comprised of proven standard components. These can then be customized and applied to meet your specific requirements. Powered by online analysis of shop-floor data, we quickly deliver significant operational impact.



Overall equipment effectiveness

Boost the performance of your operations to achieve operational excellence as well as to increase equipment lifetime and minimize unscheduled downtime.



Sales & growth

Generate new revenue streams by increasing the flexibility and scalability of your operations. Avoid high investments through new service-based business models.



The KUKA proven toolbox

The KUKA software range optimizes your complete supply chain. Intelligent combination of software tools and machines creates tailored services for your Industrial IoT solution. Our platform offers software tools such as KUKA Connect, KUKA Xpert, KUKA SmartProduction_monitoring, SynQ.



Data-driven improvements for your processes

Learn and analyze your production performance in order to gain precise process insights and thus facilitate data-driven decisions and better allocate your human resources.



Achieve excellence through performance benchmarking

Gain transparency and awareness across your internal operational processes. Compare and improve production sites all over the world.



Maximize returns on your IIoT investment

With our IIoT pilot, you can evaluate the usability of the application and the connectivity performance, assess data quality and understand the basis for setting up a business case.

Five steps to measurable results

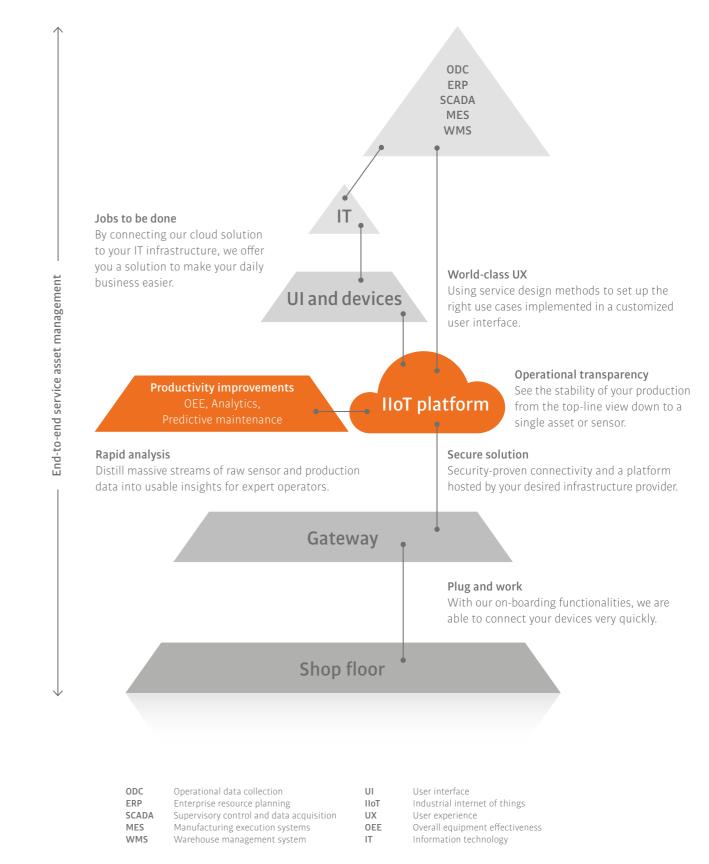
High five on Industrie 4.0

Improve Together, we increase the value of your processes on a data-driven basis through the use of our advanced analytics and machine learning toolkit to interpret Improve the collected data. Design Design We reduce complexity by designing a clear and user-friendly workflow with you. Dashboards, reports, export functionalities and alarm management are tailored to your application. Analyze We apply our process knowledge to Analyze use machine learning and artificial intelligence for the purpose of analyzing and organizing your data. Together, we maximize your window for decision making – by increasing the transparency Connect of your assets, predicting future main-Connect and manage the full variety of tenance and preventing downtime. data from your assets, production lines or entire plants. Intelligent edge processing allows for secure and optimized assets and factory data for streaming to the cloud. Co-create Co-create The entire project is based on collaborative co-creation. Fully involving stakeholders in a co-creative process brings diverse perspectives, increases the quality of ideas and instills ownership. Co-creation is the driver

for change innovation.

Continuously from the shop floor to the cloud

Get the ultimate overview – quickly and comprehensively



Fast entry into Industrie 4.0 Pick your individual solution



Stage 1

Stage 2

Stage 3

KUKA IIoT Cell Insights

Getting started Workshops set

Getting insights

Getting improvements Data analysis set

Pilots set



5 DAYS Proof of impact

Following the workshops, it will be clear whether continued investment in I4.0 is appropriate or further preparation and/or resources are required.

You will also understand the use case to initially focus on in order to create an impact for your customers and stakeholders, and to obtain a list of features and an application description.

6 MONTHS Line insights

After the set of use cases and connectivity, you will be able to begin the pilot phase.

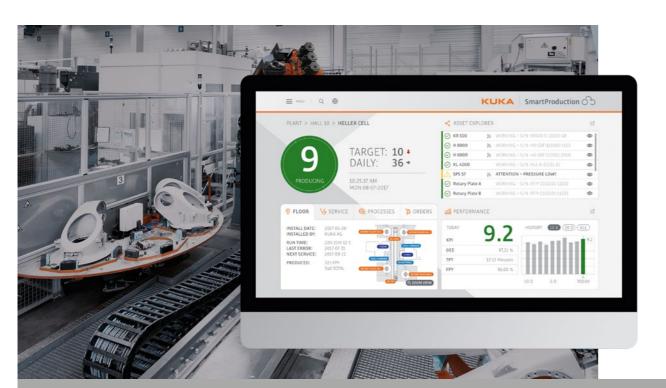
During this phase, you can evaluate the usability of the application and the performance of the connectivity. At the same time, you can assess the data quality, understand the basis for setting up a business case and learn about storage volume and IIoT architecture.

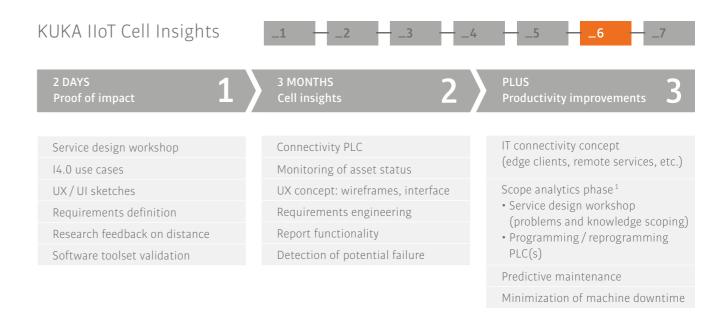
PREMIUM **Process improvements**

Based on the experiences and the data transparency during execution of the pilot phase, the improvement of the cell or line is the logical next

The opportunities which are obvious and easy to implement are leveraged in the light version while the full version includes data analytics.

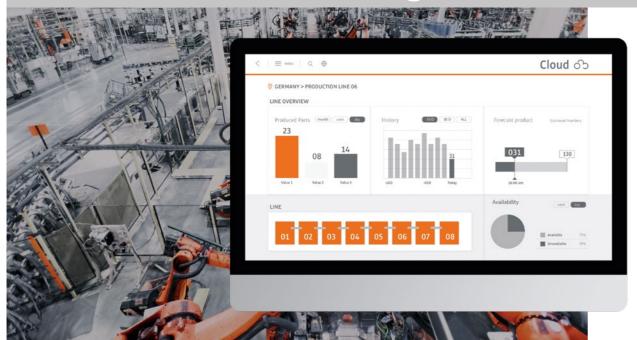
Every detail on the screenThe KUKA offering in details

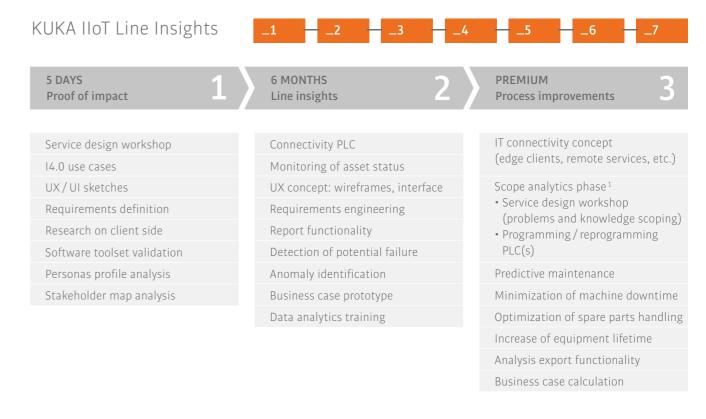




KUKA IIoT Cell Insights

KUKA IIoT Line Insights

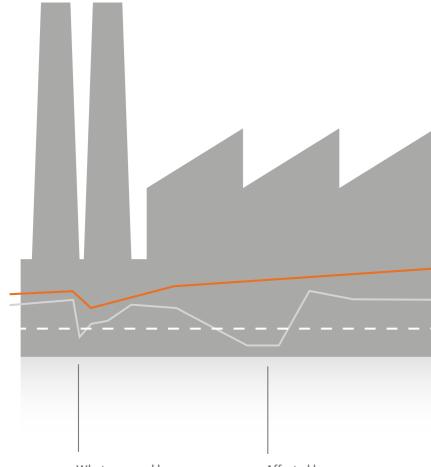




¹ Integrator presence and cooperation is required (approx. 2–3 weeks)

Implement IIoT on a new line

Or upgrade your existing facility



Machine availability

With the anomaly detection of our IIoT solutions, this would never have happened.

Improve your availability. Enhance process performance.

What occurred here An undetected leak in a

an undetected leak in a pneumatic line causes minor irregularities in clamping of workpieces.

Affected here

The leaking pneumatic line bursts, causing the machine break down completely.

Comprehensive application set

Our digital application allows you to access data points and data frequency as well as to manage data analytics. Thanks to the live evaluation of data and historical storage you can lower the machine downtime in the individual manufacturing process.



"Quality without results is pointless. Results without quality is boring."

Johan Cruyff (Dutch football coach and manager)



Interest? Check out here:

www.kuka.com/industrial-iot-offering

For further information, please contact us at I4.0Accelerator@kuka.com

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