**Katona** USU

DATA ARE THE SWORD
OF THE 21ST CENTURY

Take advantage of your "big data"

BIG DATA ANALYTICS – TURN RAW DATA INTO PROFIT

Do you collect huge amounts of data from sensors, machine logs, customer databases or remote platforms? And do you wonder how you could generate turnover through these "big data" and cater for ever-changing service requirements? With our intelligent analyses, you can use your data to obtain important information that will help you to identify and rectify faults early on, while optimizing your processes. In four steps, we turn your big data into valuable smart data, which we then use to develop smart services – working with you and on your behalf.

REFERENCE EXAMPLE: HEIDELBERGER DRUCKMASCHINEN AG

HEIDELBERG

① Heidelberg Cloud ②

③

Print shop ⑤ ④ Heidelberg Service 24

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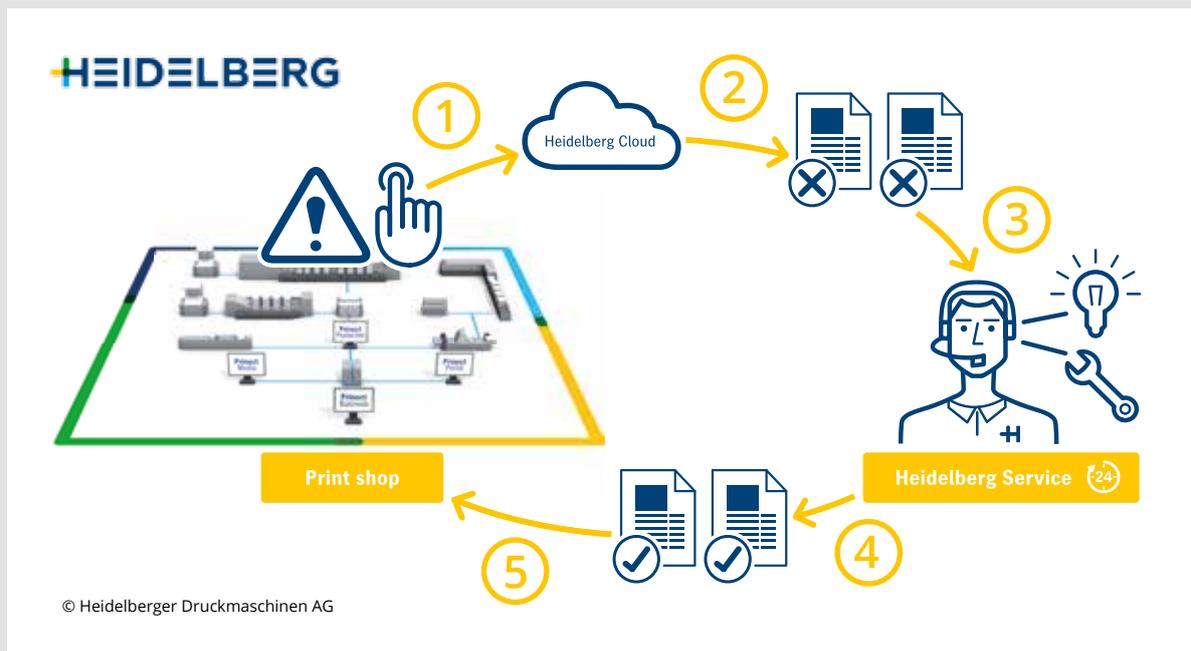
"By working with Katana, we can turn an idea into a finished solution within a few days"

Wilfried Schumacher-Wirges, Head of Remote Services, Heidelberger Druckmaschinen AG

Improved performance through planned servicing

① The machine sends data to the Heidelberg server via the Internet

② The system analyzes the data and identifies any irregularities

③ The information is relayed to the system service experts and the diagnostic tool

④ The expert produces an intelligent list of tasks (what-when-how?)

⑤ The solution is implemented via remote service or on the customer's premises

1. USE CASE

What needs to be optimized?

Working interactively with you and your experts, we come up with a use case for individual improvements. During an initial discussion, we determine which errors or faults need to be identified from a data perspective and where there is room for improvement. Our data scientists and your experts then hold further discussions, during which they develop and enhance their examination and assessment of the data. The result of this important first step is the business value definition of the use case.

2. PROTOTYPE

Does it work?

Our data scientists prepare your data specially for your use case. Our key area of expertise lies in developing an individual algorithm, e.g. from machine learning or cognitive intelligence. Patterns, irregularities and outliers can therefore be identified and previously unknown causal links are revealed. The basis for optimization is now in place.

KATANA STEPS – FOUR STEPS TO A SMART SERVICE

3. IMPLEMENTATION

Now the practical part!

Transformation to the Katana platform now takes place. In order to do this, our development experts migrate the prototype algorithm so that it can be used effectively and reliably with large quantities of data. The subsequent integration into your target environment allows permanent further development and optimization.

4. SMART SERVICE

Hit the market with a new portfolio!

With this approach, your data-driven portfolio benefits for example from two smart services. "Predictive maintenance" is used to increase productivity through proactive recommendations, while peer group comparisons result in a performance increasing consultancy approach which optimizes overall equipment effectiveness. Smart services ensure that you stay ahead of the competition.

KATANA – YOUR PARTNER FOR INDUSTRY 4.0

Katana is a USU segment specializing in big data analytics. Our portfolio addresses the entire range of data-driven digital service offerings. As a full-service provider, we generate your valuable data (smart data) and contribute it to the value chain in a pinpointed way throughout the service process (smart services). In the field of data analytics, we can provide you with cutting-edge software products. We also have the specialist know-how of our data scientists so we can find the ideal method for applying the right means of analysis. Our interactive approach is geared flexibly to your practical requirements – in all areas of industry.

The benefits you gain from that are obvious: Predictive maintenance of your machines and systems delivers significant improvements in the operating time and capacity utilization of your production plant – leading to an increase in productivity and quality.