



METRIS OPP FOR METALS BUSINESS

OPTIMIZATION OF
PROCESS PERFORMANCE

ANDRITZ

ENGINEERED SUCCESS

Metris is built on know-how and expertise

ANDRITZ combines technology, innovation, and know-how in digitalization under the brand name Metris – ANDRITZ Digital Solutions. The latest developments in the areas of technology covered by the Industrial Internet of Things are constantly being integrated into result-oriented solutions like Metris OPP (Optimization of Process Performance). The main focus lies on smart sensors, big data, and augmented reality. The Smart Service initiative complements the beneficial offering provided under the umbrella brand Metris.

Editorial

“Creating new value by embracing digitalization through new technologies and combining them with ANDRITZ know-how”

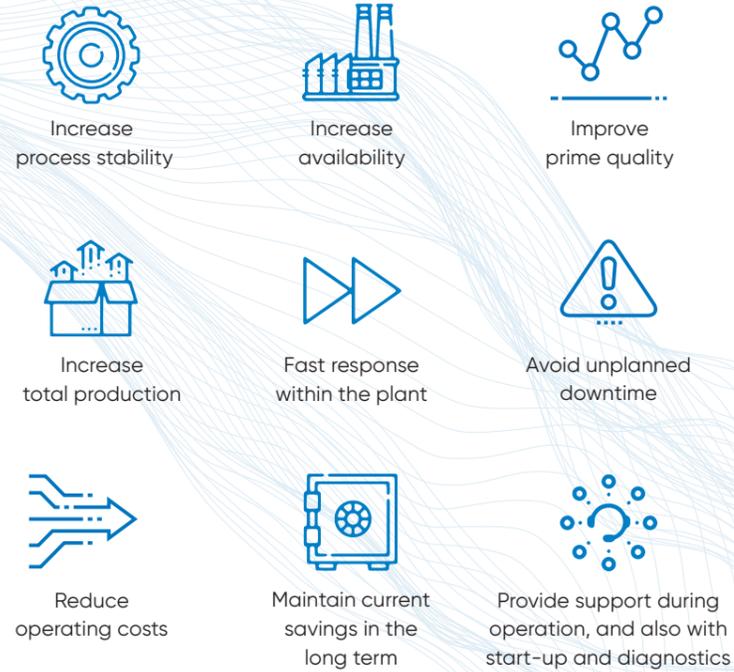


HEINZ AUTISCHER
Global Head of ANDRITZ Metals

For the steel industry, digitalization is the opportunity to make use of slumbering potentials. This means that significant benefits can be gained by linking the relevant data from all of the machinery in the mill. That is why ANDRITZ started developing suitable solutions for our customers in 2007. Now Metris OPP can build on over ten years of experience gathered in numerous projects worldwide. Combining the latest state-of-the-art sensor technology with data analytic

methods and the knowledge and experience of ANDRITZ experts has succeeded in saving our customers over 50 million euros per year. In order to guarantee optimized production processes in different types of plants, Metris is undergoing constant further development to meet the challenges confronting us today. Encompassing big data, deep learning, and preventive maintenance, digitalization creates a unique competitive advantage for our business partners.

Metris OPP goals



STRENGTHEN YOUR TEAM WITH THE EXPERIENCE OF MORE THAN 200 EXPERTS

INCREASE YOUR PERFORMANCE BY USING THE LATEST TECHNOLOGIES

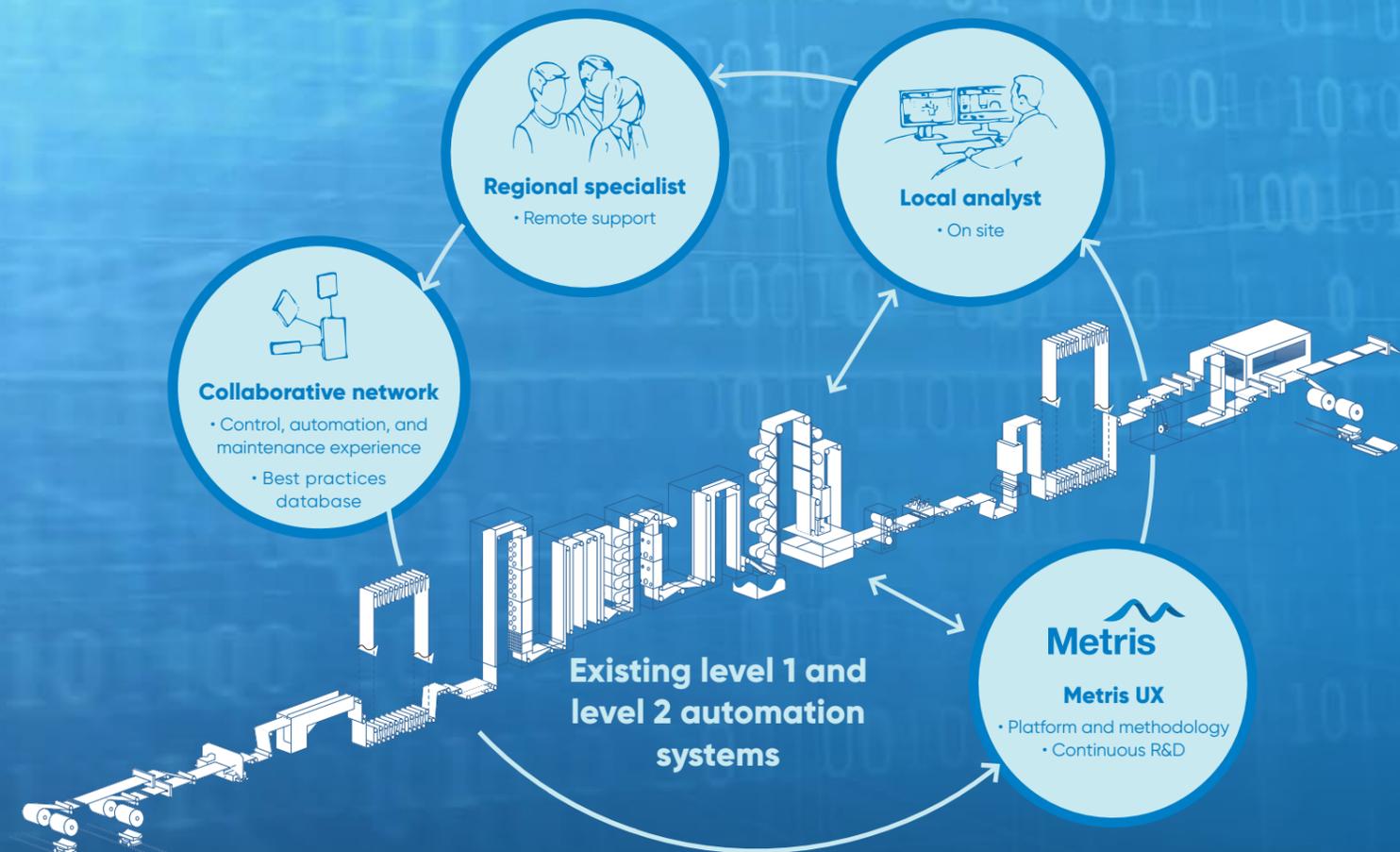
TRANSFORM PROCESS KNOW-HOW AND ARTIFICIAL INTELLIGENCE INTO BUSINESS RESULTS

How Metris OPP enhances your business targets

ANDRITZ offers significant advantages with Metris OPP by combining the latest technological insights in digitalization with in-house process experience gathered over decades. This is achieved with a highly capable

platform, Metris UX, which can be adjusted and customized to meet the needs of each individual customer and combined with a service concept that delivers both on-site and remote assistance services by specialists. New

algorithms for process improvement are collected every day in a world-wide network of experience and can be implemented in Metris OPP systems that are up and running whenever needed.



CUSTOMER BENEFITS*

UP TO 15% PRODUCTION INCREASE

21% COST REDUCTION

79% PERFORMANCE GAINS

*VDMA STUDY 2017

10 years of experience with Metris OPP

The intelligent Metris UX analyzes available plant data, compares it with data already gathered, and then provides valuable output for business intelligence, big data analytics, quality management, augmented reality applications, and process information. These

results play a vital role in increasing the efficiency and performance of systems already installed and thus secure competitive advantages on the international market. But Metris UX is not just a platform – it offers Metris OPP service contracts for both on-site and remote

assistance services by specialists. These support services are performed by a network of various experts, for example by process engineers, chemical experts, or mechatronics engineers, depending on the customer's requirements.

OVER
50
CONTRACTS
IN 14 COUNTRIES

OVER
50
MILLION EUROS
SAVINGS PER YEAR

OVER
200
EXPERTS

0
CAPITAL
INVESTMENT

Note: Results up to the end of 2018

Capacity increased by 15%



ANDRITZ has successfully improved performance of the annealing and pickling line for stainless steel strip at Fuxin Special Steel Co., Ltd, Fujian Province, China.

Based on proven software and algorithms developed by ANDRITZ, the operating and process data of the plant were analyzed, and some bottlenecks were identified. After implementation of the necessary changes, the capacity of the line was increased by 15%, with virtually no additional capital investment. This extraordinary improvement once again demonstrates the expertise and know-how of ANDRITZ in optimizing the production performance of plants in the metals industry, based on digital products and software developed by ANDRITZ.

Metris encompasses innovative IIoT products largely relating to optimization of plants and processes by combining sensors, complex data analysis, and augmented reality. Smart service offerings, such as an online spare part catalog, as well as research and development work on digital solutions that provide added value to the customer complete the comprehensive ANDRITZ product offerings in the digitalization sector. Fuxin Special Steel Co., Ltd. is an integrated stainless steel manufacturer that covers steel making, casting, and hot rolling, as well as hot strip annealing and pickling.

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THE METRIS COMPETENCE

ANDRITZ offers a broad and constantly growing range of innovative products and services in the industrial digitalization sector under the brand name Metris, helping customers to

- enhance plant efficiency and profitability
- optimize the use of resources
- achieve constant and highest product quality
- reduce production downtime
- maximize user-friendliness

ANDRITZ AG

Eibesbrunnengasse 20
1120 Vienna, Austria

metris.metals@andritz.com

[ANDRITZ.COM/METALS](https://www.andritz.com/metals)

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