

ANDRITZ OPP

Improve process performance with guaranteed results through a risk-free service model

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Identify hidden losses and maximize process potential

Modern pulp and paper operations face increasing pressure to improve production efficiency, reduce operating costs, and maintain consistent product quality while managing increasingly complex processes. At the same time, process variability, inefficient control loops, and hidden operational losses can limit production performance and affect overall mill profitability.

Many mills still face challenges identifying process inefficiencies and translating large volumes of operational data into actionable improvements. Without continuous monitoring and systematic optimization, opportunities to reduce energy and chemical consumption, improve process stability, and increase production capacity can go unnoticed.

ANDRITZ Optimization of Process Performance (OPP) combines advanced analytical software, process data, and ANDRITZ's extensive process expertise to identify inefficiencies and uncover opportunities for improvement across the entire production process. By continuously analyzing control loops, equipment performance, and process variables, OPP helps mills make more informed operational decisions, implement targeted improvements, and sustain measurable performance gains over time.



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How can we make a difference in your mill?

This is the question that guides the development of every ANDRITZ automation and digitalization solution for the pulp and paper industries. More than delivering technology, our commitment is to generate real and measurable impact on our customers' operations. We believe that true value lies in results you can measure. That's why we focus on outcomes that are tangible, trackable, and aligned with our customers' goals. In practice, this means connecting solutions that can act on:



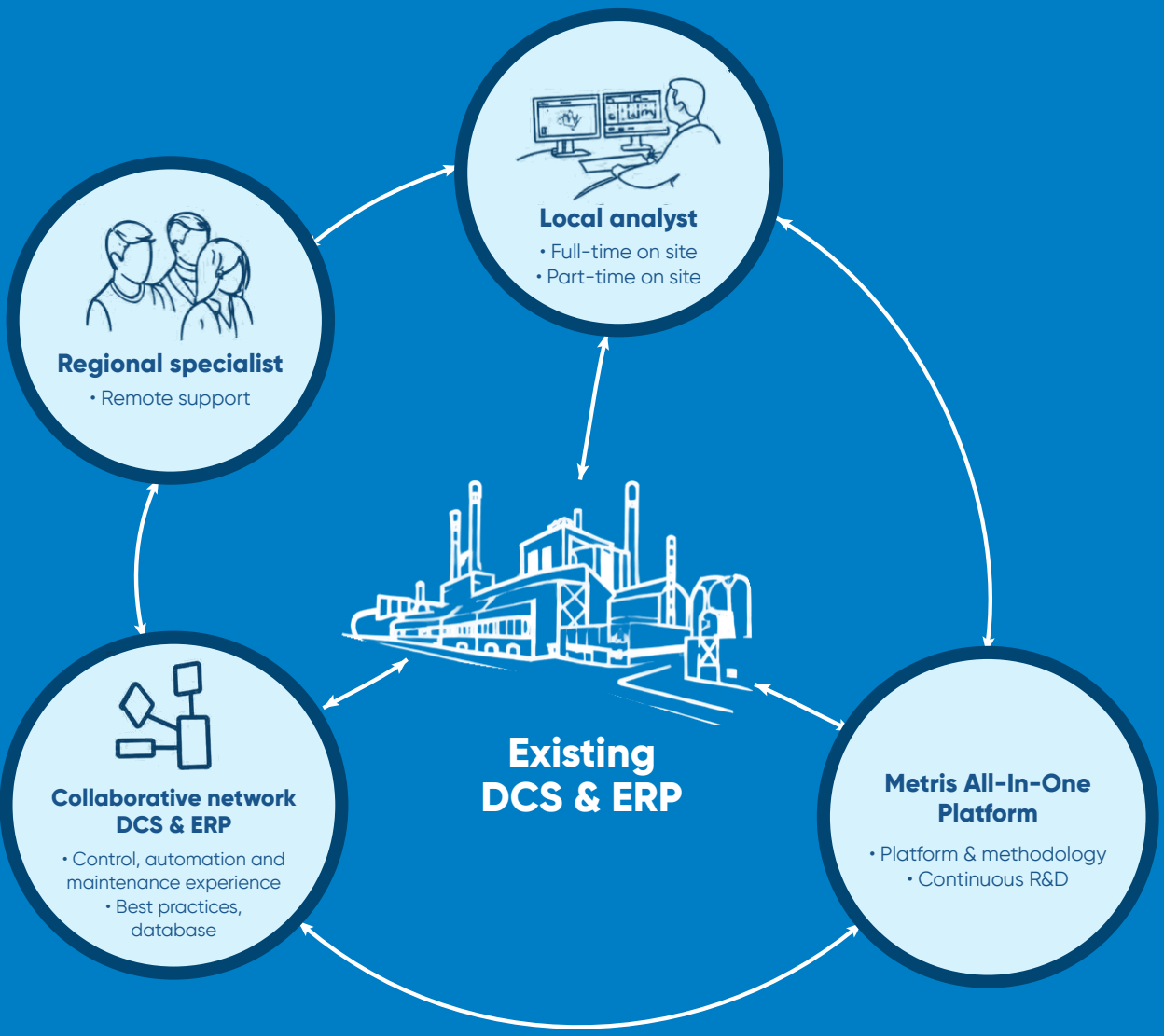
These are real gains, connected to each pillar, transforming technology into tangible results. By connecting solutions designed to solve specific industry challenges, we deliver new ways to make a difference and contribute to results. This is how we transform technology into real value.

ANDRITZ Optimization of Process Performance (OPP)

How OPP helps to achieve existing business targets

ANDRITZ OPP is a contract-based, continuous optimization service that helps industrial plants identify, prioritize, and implement performance improvements. As part of the ANDRITZ Pulp and Paper Digital Solutions portfolio, OPP delivers measurable operational gains without requiring upfront capital investment, making optimization both low-risk and results-oriented.

Using both big data and advanced analytics the solution quickly identifies inefficiencies, bottlenecks, and optimization opportunities. ANDRITZ experts then work closely with the customer's team to define priorities and implement targeted improvements that deliver tangible results.



A risk-free investment with guaranteed results

How does OPP work?

ANDRITZ OPP collects and analyzes large volumes of process data from control loops, valves, drives, and key variables using advanced analytics methods and big data analytics. The software quickly detects inefficiencies, bottlenecks, and optimization opportunities, predicting their economic impact. ANDRITZ experts then collaborate with your team to prioritize actions and implement targeted improvements ranging from simple fixes to strategic process adjustments. The result: greater operational stability, reduced variability, and measurable cost savings.



With this solution, mills can support continuous process optimization through designing and improving control strategies, implementing automatic production slow-down systems to avoid interlocks, tuning control loops, resolving instrumentation challenges, deploying advanced process controls, developing virtual sensors, diagnosing control-related issues, and identifying the best operating ranges to maximize process performance and reliability.

Our flexible business models are designed to align with each mill's operational goals and performance priorities. We can work on a project basis, developing targeted initiatives that deliver measurable values such as increased production, reduced chemical consumption, and fewer sheet breaks. We also offer KPI-based engagement models, focusing on key plant performance indicators such as overall production, cost per ton, and other critical business metrics to drive sustainable operational improvements.

KEY BENEFITS

- Identifies opportunities for savings and efficiency enhancement;
- Increase the process stability;
- Better quality product – less variation;
- Reduces off-spec product or wasted raw materials;
- Reduce the energy or chemical cost;
- Increases production by enhancing process stability;
- De bottleneck production, increasing total production;
- Increase the mill availability;
- Fast response to move from area to area or production to cost;
- Keep existing savings in the long term;
- Support to Operation: in diagnostics, start-up, mill-balance;
- No capital investment is required; flexible payment can be based on savings achieved.

Measurable values to customers

Digitalization is not just about technology, it's about measurable results. ANDRITZ OPP delivers tangible improvements across key performance areas, helping mills operate more efficiently, reliably, and profitably.

What can you achieve:



UP TO 3%
PRODUCTION INCREASE



UP TO 10%
COST REDUCTION



UP TO 50%
QUALITY LOSSES REDUCTION



UP TO 1%
MILL AVAILABILITY INCREASE



UP TO 2%
MAINTENANCE COST REDUCTION



UP TO 3% REDUCTION IN EMISSIONS



UP TO 3% REDUCTION IN WATER USAGE



UP TO 3% INCREASE ENERGY EFFICIENCY

UP TO 10%
PRODUCTIVITY INCREASE



UP TO 3%
OPERATOR ACTIONS REDUCTION

CONTACT US FOR MORE INFORMATION

Advancing autonomous operations is our vision and is becoming an integral part of industrial processes. ANDRITZ is at the forefront of this transformation, leveraging digital innovations along with deep operational and technical expertise to improve process efficiency, quality management and production reliability and availability.

We focus on developing autonomous pulp mills and process optimization, to support efficient and sustainable operations by combining automation, electrification, intelligent instrumentation and digitalization to create measurable value throughout the full lifecycle and the entire value stream.

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