



PERFORMANCE STUDY AND IMPLEMENTATION

MAINTENANCE KNOW-HOW
BEYOND JUST CONSULTANCY



ANDRITZ

ENGINEERED SUCCESS

Do you need to improve your maintenance performance?

The **Performance Study and Implementation (PSI)** approach is much more than just consultancy. With PSI, together we identify gaps and opportunities to improve then, while the mill maintenance team works on a routine basis, ANDRITZ works with a small team of specialists on improvement projects.

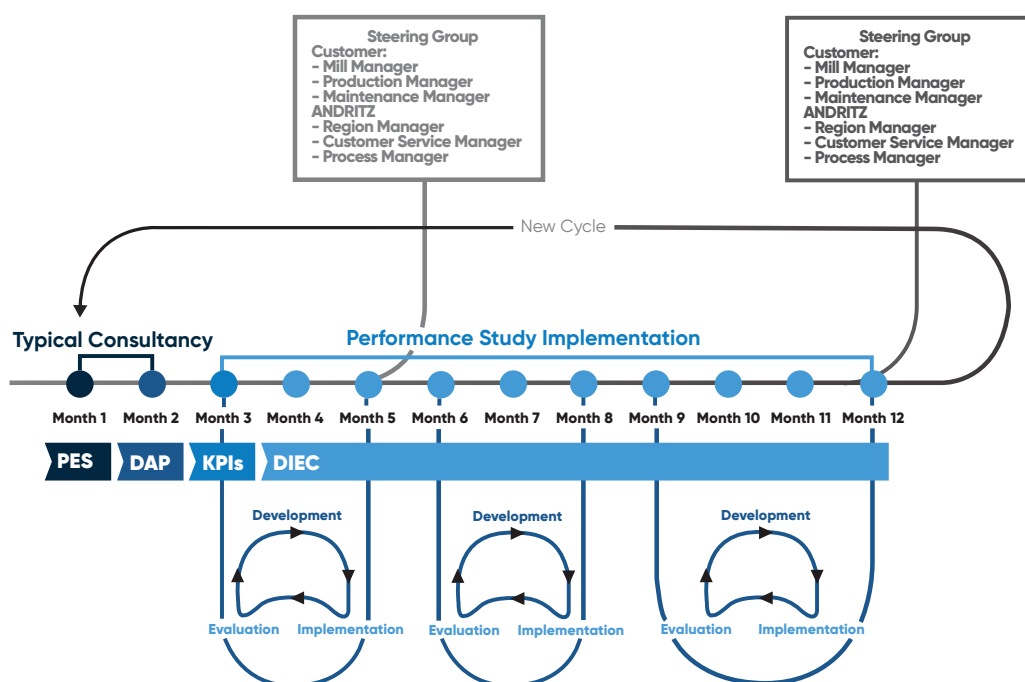
What is the Performance Study and Implementation approach?

PSI is neither a consultancy nor maintenance outsourcing. It starts with an assessment of the mill's maintenance and reliability program to identify gaps that need to be improved to deliver the required equipment reliability to meet the mill's goals for performance. This Performance Study identifies and prioritizes the opportunities based on data and cost justification. Together we agree on the defined actions and priorities, developing a phased plan for improvement. Key Performance Indicators are established and tracked.

While the mill's maintenance team can stay focused on the day-to-day routine, ANDRITZ starts the Implementation

with a small team of experts using ANDRITZ methodology based on proven best practices while supporting the mill in improving maintenance effectiveness and efficiency. This includes supporting the daily routines around work management and bad actor management.

Unlike a consultancy, we don't just deliver a report with recommended improvements, we work together with the mill team in a partnership with aligned goals. Our professionals stay at the mill, working with the customer's maintenance team, guiding the implementation of the necessary measures to transform the maintenance performance.



With PSI we offer:

- Transforming maintenance to world-class performance level
- Easy and fast implementation, not promoting major structural changes
- Use of online asset monitoring technologies aimed at diagnosing the condition and anticipating possible failures, thus increasing reliability
- Access to proven work methodologies tested in the field with effective results
- Benchmarks and solution bank for existing problems, through ANDRITZ's global network
- Experience in manufacturing processes and maintenance requirements as a manufacturer of process equipment
- Performance based agreements linked to the increase in maintenance and production performance

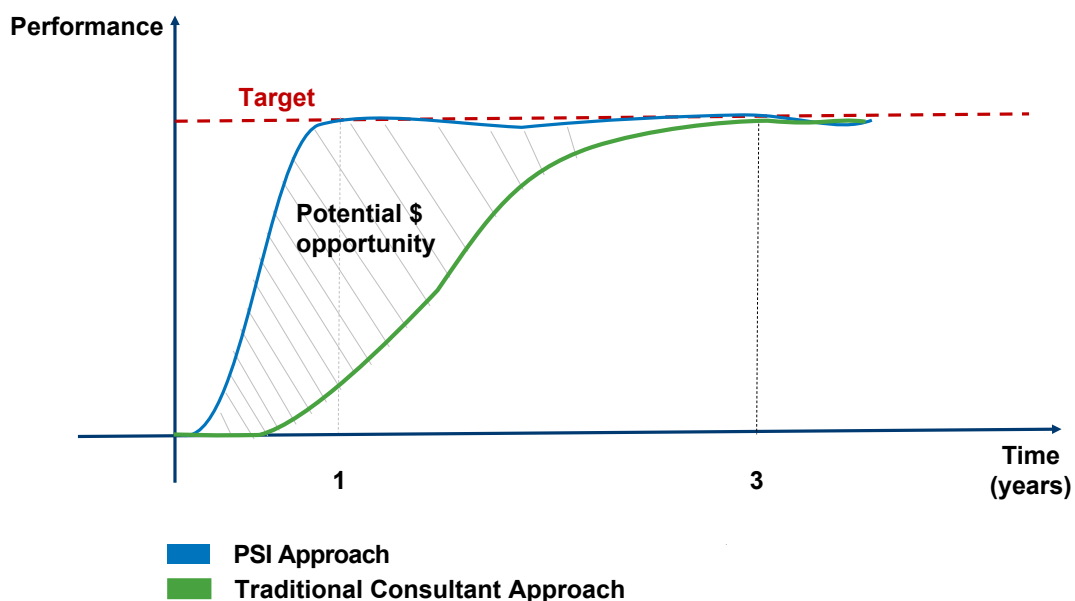
ANDRITZ PSI DIFFERENTIALS

- Know-how developed in field from "doing", not just consulting
- Working on site allows us to be fully engaged to identify bottlenecks, problems and opportunities
- Commitment to delivering results, far beyond consulting, it guarantees improved performance and reduced unplanned events
- ANDRITZ knowledge on maintenance backed by knowledge on the process, process equipment and automation
- Collaborative approach

BENEFITS

- Increased MTBF / Reduced MTTR
- Reduce unscheduled shutdowns
- Increase the mill availability
- Increase assets and mill reliability
- Reduce maintenance costs
- Improve outage performance
- Debottleneck production
- Improved utilization of resources
- Increased safety

We can help you to reach your goals faster and this can represent significant financial results



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