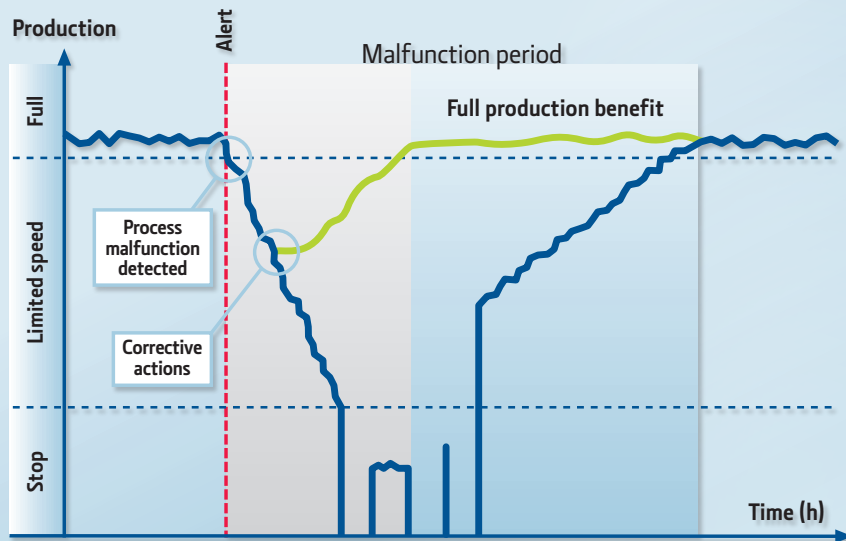




ANDI™ – ANALYTIC AND DIAGNOSTIC TOOL FOR ACTIVE PROCESSES

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Corrective measures should be implemented before the fault leads to quality defects or, in a worst-case scenario, an unscheduled shutdown of production line.

ANDI™ – Analytic and Diagnostic Tool for Active Processes

ANDI™ is a solution for managing and making use of information generated in industrial production processes. It compiles data from the plant's various systems and converts them into information on the performance of the process itself and the equipment involved. This information can then be used as a basis for decision-making and planning in production and maintenance.

ANDI™ makes use of existing databases, such as programmable logic controllers, automation systems, quality control systems, imaging and monitoring systems, various information systems and laboratory databases.

ANDI™ is a tool for:

- Supervising and monitoring processes
- Managing and diagnosing faults
- Improving process performance.

Most importantly, ANDI™ records all the events and therefore generates valuable capital for the client. The information is available for all user groups to view and use in real time, all the time.

What? Where? When? Why?

In order to be able to ensure and improve the performance of the plant's machinery and the usability of the process as well as to optimize efficiency and quality, the production system and the performance of its critical components in particular must be analyzed on a regular basis. Moreover, faults that have occurred

in the processes or that could potentially occur in the future must be controlled and prevented. Corrective measures should be implemented before the fault leads to quality defects or, in a worst-case scenario, a shutdown.

It is important to recognize what, where, when and why something happened or could potentially happen. Once the knowledge is there, similar events can be prevented from taking place in the future. The aim is to avoid ending up with a shutdown or a quality defect for the same reason twice and, above all, to eliminate unplanned shutdowns altogether.

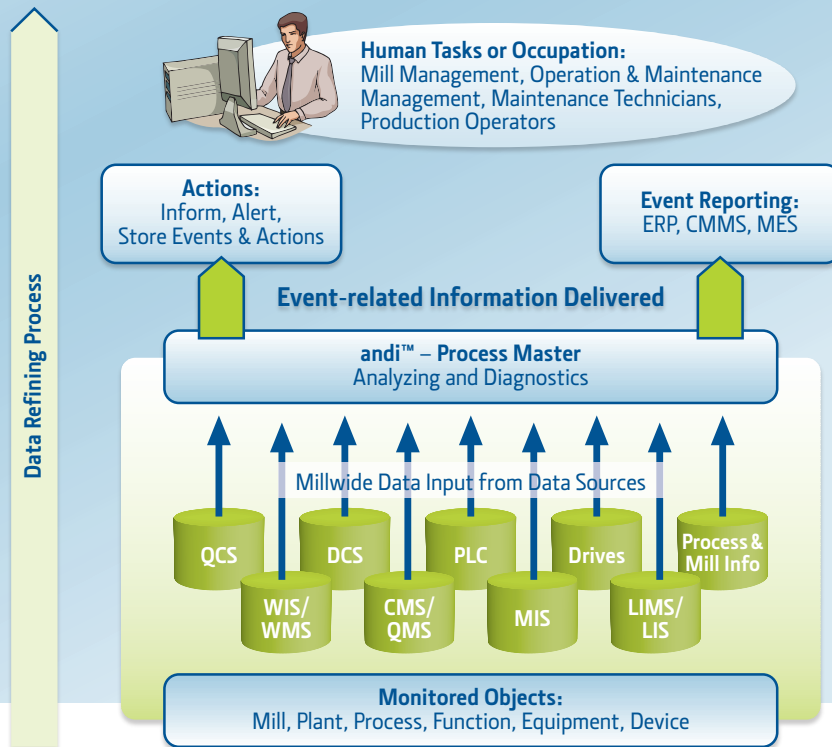
ANDI™ helps to target maintenance where it is really needed, which allows maintenance costs to be optimized.

Independent

ANDI™ is an independent system in more ways than one. It can be linked to the plant's metering, control and data collection systems regardless of their make. Connectivity is based on open interface standards, such as OPC and ODBC*.

The system is also independent of time and place: ANDI™ is a fully browser-based system, which can be accessed from any allowed network to view the status and event log of the process. Configuration also takes place in the browser window, which means that the system can be easily configured from almost anywhere.

Alarms and notifications can be issued to selected target groups or individuals using text messages or e-mail – from mobile devices as well.

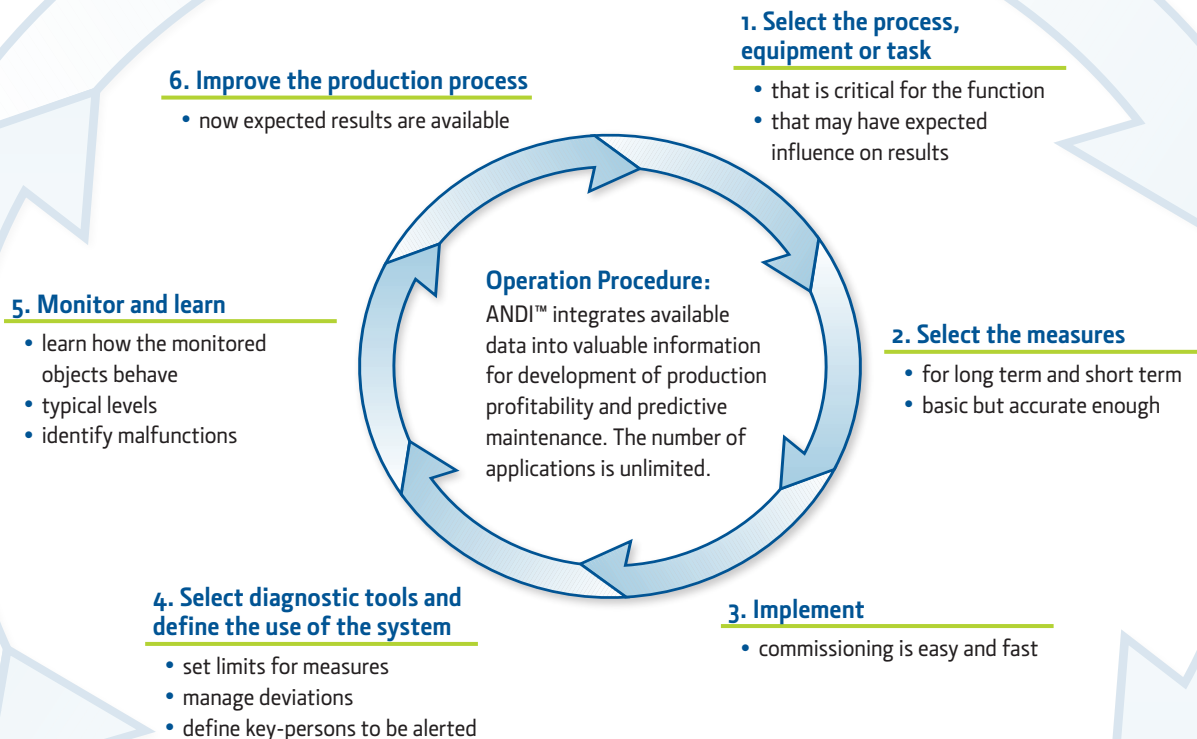


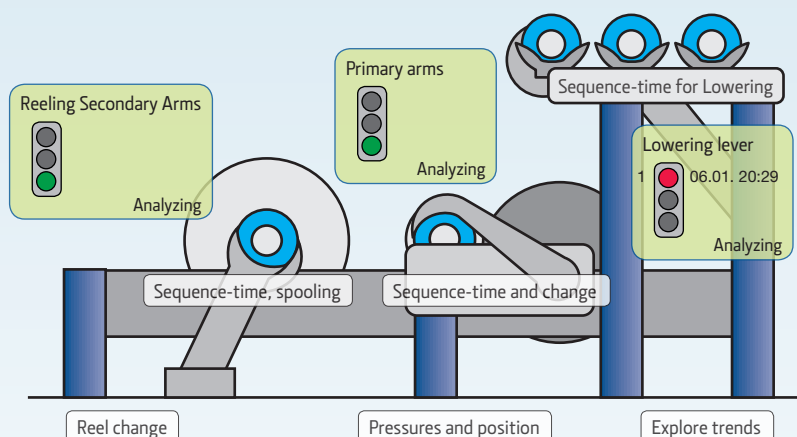
* *Conceptual Description and Abbreviation:*
ERP Enterprise Resource Planning, CMMS Computerized Maintenance Management System, MES Manufacturing Execution System, DCS Distributed Control System, QCS Quality Control System, PLC Programmable Logic Controller, WIS/WMS Web Inspection System/ Web Monitoring System, CMS Condition Monitoring System, MIS Mill Information System, LIMS/ LIS Laboratory Information Management System/ Laboratory Information System, QMS Quality Monitoring System

OPC Object linking and embedding for Process Control, ODBC Open Data Base Connectivity

The data refining process: Data refining from available data sources for delivery of value-added information to operation and decision making.

Higher Production Line Efficiency over Continuous Improvement!





An ANDI™ Application Example – Paper Machine Reel Operation

A paper machine reeler is an example of how the flawless operation of each section of a production line is vital for efficient and high-quality production. The slightest malfunction of the reeler can lead to poor quality of paper, defected reels or even worse, to production line losses.

Typically, operators only become alerted in the causes of malfunctions when the effects are clearly visible. By this time, significant economic consequences may already have ensued. The retrievable data in order to isolate the problem may be located in several different places, making it harder to see the big picture. It may also be the case that the data and information required in connection to the malfunction is lost because the event has not been stored.

In the example, the ANDI™ reeler module continuously monitors the functions of the reeler. It is combining data from various sources, which include typically hydraulic pressure and pulsation, mechanical vibrations, sequence times and the use of functions in connection to the quality of the finished paper product.

ANDI™ reports abnormal events numerically and graphically directly to the responsible persons for the operation and

maintenance of the selected process area. All abnormal events are documented the moment they happen. This helps to tackle occurring malfunctions when they are just beginning to emerge, before they may cause any economic losses.

Adjusting to Needs

ANDI™ is a solution that expands along with the production plant's needs. It can easily be expanded from controlling an individual process to analyzing and diagnosing an entire product line or even the whole plant. The system can also be supplemented with extra-efficient sensors that measure every millisecond of the critical parts of the process where a normal data collection speed would be insufficient.

Strategic Investments, Little by Little

ANDI™ helps to identify the problems and bottlenecks that are stopping a production line from reaching its full capacity. Often a small adjustment is all it takes to get rid of the bottlenecks that may be holding back quality or productivity, and there is no need to resort to major investments.

→ CONTACTS

SESCA Solutions

Korsholmanpuistikko 42
FI-65100 Vaasa
Finland

Tel. +358 29 003 9110

SESCA Group is an internationally operating group of companies that provide technology and services to the telecommunication, process industry and energy production sectors. SESCO Group's expert and customer service organization operate in several locations across Finland, Sweden, Estonia, the UK, Germany and the Czech Republic. The Group employs 340 people. SESCO Group helps to improve the competitiveness of clients by developing systems that combine expertise in ICT and automation. The Group offers services over two divisional sectors:

- *SESCA Technologies – Telecommunications services and solutions*
- *SESCA Solutions – Automation solutions and services to the process industry and energy production*

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