



FEED & BIOFUEL

# AUTOMATION & DIGITALIZATION

FOR THOSE WHO NEVER STAND STILL

**ANDRITZ**

ENGINEERED SUCCESS

# Never stand still

At ANDRITZ, we understand the challenges the feed and biofuel industry faces today. With volatile raw material prices, emerging outbreaks, and a competitive marketplace, the need for innovative solutions has never been greater. Our Automation & Digitalization solutions, powered by the Metris Digital Platform, are designed to upgrade your operations, ensuring profitability, reducing total cost of ownership, and enhancing operational excellence.

Leveraging our 40 years of cross-sector success, our platform blends human and digital intelligence to enhance processing efficiency and support growth, while delivering 7 - 16% throughput increases.

Our solutions encompass an evolving, vendor-neutral solution supported by state-of-the-art automation and digitalization technology.

ANDRITZ will be with you every step of the way in your digitalization journey, ensuring your plant and your business **NEVER STAND STILL**.

RANKED **1st**  
SYSTEM  
INTEGRATOR  
GIANTS 2023

by CFE Media  
and Technology

over **2.200**  
automation and  
digitalization  
specialists globally

**110**  
automation  
locations  
worldwide

Over **180**  
years of industry  
knowledge





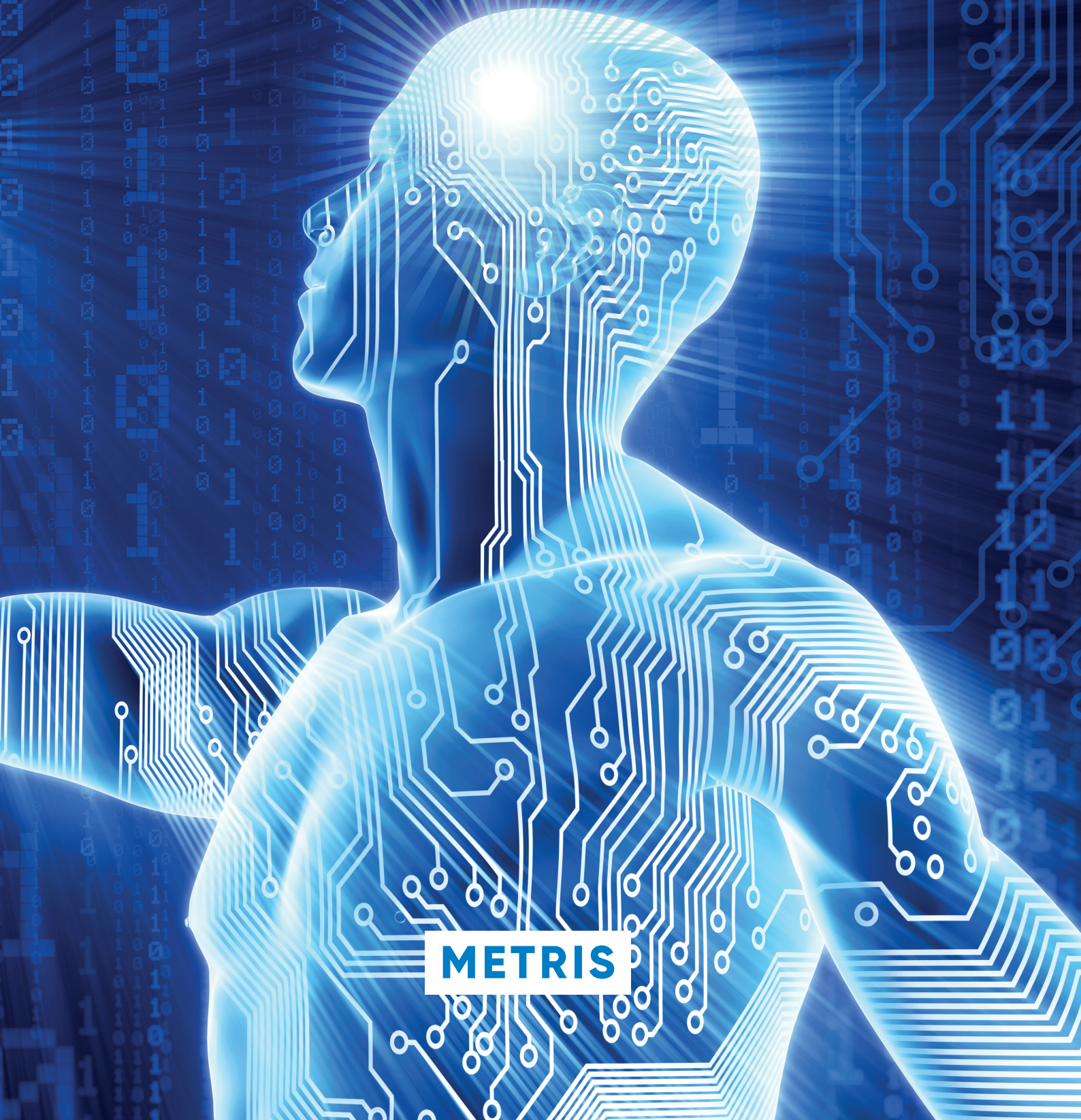
**Metris**

ANDRITZ Digital Solutions

# Meet Metris

YOUR DIGITAL GUARDIAN, PROVIDING  
THE INTELLIGENCE TO KEEP PROCESSING  
LINES MOVING, AND PEOPLE AND  
BUSINESSES THRIVING.

METRIS GIVES WINGS TO  
YOUR BUSINESS AND MAKES  
YOUR SUCCESS SOAR  
THROUGH EVERY CHALLENGE.



**METRIS**



# AUTOMATION

## The 'Muscle'

### Achieve peak performance over the entire lifetime of your lines

The automation suite encompasses a broad spectrum of control solutions ranging from basic to fully automated systems, including production management, real-time plant simulation, condition monitoring, process optimization, and life cycle management.

These components maximize plant throughput, simplify maintenance, and optimize resource use.

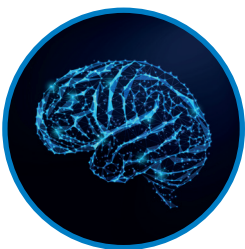
#### **Protecting your entire operation from cyber risks is paramount.**

From a single asset to your entire operation, you will have full visibility on demand.

Our dedicated, in-house provider, OTORIO, effectively enables IT-OT convergence and proactively mitigates digital risks to IEC 62443 standards.

#### **BENEFITS WITHOUT RESTRICTIONS**

- Advanced automation & digitalization solutions for existing and new installations
- Universal compatibility with all software and hardware
- Global expertise sensitive to local conditions and needs



# DIGITALIZATION

## The 'Brain'

### Maximize your plant's potential while minimizing investment risk

The digitalization suite offers a holistic digital infrastructure for process optimization, asset management, operator training and knowledge management, ensuring a turnkey approach to feed and biofuel processing operations.

Our digitalization platform transforms operational data into robust, actionable analytics. Plant managers can enhance line performance and plant insights, whilst C-level executives can plan investments from a robust, data-driven foundation.

The predictive maintenance and advanced monitoring features cut downtime and maintenance costs, while smart diagnostics ensure reliable operations.

Interactive digital training scenarios can boost staff expertise by up to 60%, retaining vital knowledge in-house. Meanwhile, advanced controls and machine learning reduce costs and downtime, driving profitability.





# DEEP INDUSTRY EXPERTISE

## The 'Heart'

Futureproof your operations with our forward-thinking solutions, which anticipate the goal of autonomous operations by 2027.

**Reduce development time and realize production gains from minute one.** We preconfigure solutions based on our deep process knowledge, giving you immediate access to our know-how, our portfolio, and our service infrastructure all in one place.

**Make confident decisions based on intelligent controls and real-time data analysis across your entire feed/biofuel plant.** Our deep plant solutions knowledge enables us to apply your valuable extrapolated data to identify and exploit opportunities that are unique to your operation.

We protect the knowledge and experience your people possess, combining it with our own and adding state-of-the-art technology.

## IS YOUR PLANT EQUIPPED FOR THE FUTURE?

SOLUTIONS FOR THE 21ST CENTURY:

OPEN UP YOUR FEED & BIOFUEL PLANT TO A WORLD OF INNOVATION AND POSSIBILITIES

“ The feed and biofuel industry is undergoing a revolution driven by the rapid adoption of automation and digitalization. But not all solutions are created equal. We find our path to never standing still in the interplay of human ingenuity and digital precision.

At ANDRITZ, we combine our deep understanding of feed and biofuel know-how with industry-tested, innovative solutions to bring fast tracked, improvement results to your operations, enabling a positive cash flow while driving progress.

It only takes one initial leap to unlock a world of possibilities, transforming not just our plants but the very essence of our work.



**Dr. Sohail Nazari**

Vice President,  
BU Automation & Digitalization,  
Feed & Biofuel



# Profit or sustainability?

## With ANDRITZ, you can have both

The ANDRITZ Automation & Digitalization solutions have proved to lead to significant reductions in specific energy consumption, ranging from 3% to 17% across various industries, directly supporting our customers' ESG initiatives.

Our innovative solutions proactively identify potential assets' risks to the operation and maintain asset integrity, effectively minimizing production disruptions and enhancing sustainability.

By analyzing and pinpointing process deviations, abnormalities, and inefficiencies, it ensures stable and improved operational outcomes. This leads to decreased energy consumption and optimized utilization of raw materials, enhancing yields and providing substantial operational benefits.

In addition, ANDRITZ's Automation & Digitalization Platform provides management, operations, and maintenance teams with the necessary tools to effectively monitor performance and quality across the plant's entire lifecycle, enabling lasting excellence and sustainability.

Lastly, our technologies allow remote monitoring and control of various facilities. This empowers executives to measure and monitor the performance between multiple plants in multiple regions, unlocking new opportunities for cross-plant improvements.



up to  
**17%**  
in energy  
savings

up to  
**16%**  
increase in  
throughput

# WITH METRIS, YOU GET IT ALL



**More Productivity:** Output increases of 7% to 16% across various industries through precise monitoring and process optimization.



**Sustainability:** Energy consumption reduced by 3% to 17%, lowering maintenance costs and supporting ESG goals.



**Operational Efficiency:** Operational efficiency enhanced, reducing variability by 60% with a holistic approach.



**Risk-free:** Risk-free technology adoption with vendor-agnostic solutions compatible with any software and hardware.



**Operational Resiliency:** Cybersecurity protection by OTORIO, ensuring full asset visibility and risk mitigation to IEC 62443 standards.



**Autonomous Future:** Aim for a fully autonomous feed plant by 2027, transforming challenges into growth opportunities.



**Operational Readiness:** Up to 20% faster ramp-up times and 90% pre-commissioning issue resolution with simulation-based engineering.



**Increased Operator Competency:** Operator competency increased by 60% with digital twin technologies and improved training efficiency.



**Over a Century of Expertise:** Over 180 years of industry expertise and a global footprint that ensure our solutions are adaptable and regionally attuned.



**Empowered Decision-Making:** Operational data transformed into actionable insights, boosting decision-making and efficiency.



## GLOBAL SUPPLIER – LOCAL PRESENCE

ANDRITZ Feed & Biofuel is truly a global organization – with local presence. We are represented all over the world. The global market is served from five main locations: Denmark, China, Netherlands, USA, and Slovakia.

In addition, ANDRITZ Feed & Biofuel operates from several strategic regional sales, engineering, and service locations in Australia, Bangladesh, Brazil, Canada, Chile, Dubai, France, Germany, India, Italy, Mexico, Poland, South Africa, Thailand, Turkey, the UK and Vietnam – and is also represented locally by agents and distributors in many other markets.

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