

The background of the image is a deep purple with a network of glowing, intersecting diagonal lines in shades of cyan and magenta, creating a sense of digital connectivity and data flow.

AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

AVEVAWORLD

ALLIANZ MICO | MILAN, ITALY

May 19-21, 2026



Standing on the Shoulders of Giants

«...If I have seen further, it is by standing on the shoulders of Giants...» Isaac Newton, 1675

20+ Years of Building Success «upon» AVEVA Technology.

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Fabio Interlenghi

CTO @ Ematica

25+ experience in:

- Bridging Enterprise IT and Real Time Data
- Immersive Platforms for Asset Management and Asset Virtualization
- Converging AI and Spatial Intelligence to turn complex data into actionable insights for predictive maintenance and operation safety

Connect on
LinkedIn





AVEVA
Partner Ecosystem

System
Integrator

ENDORSED



AVEVA
Sustainability
Impact Partner





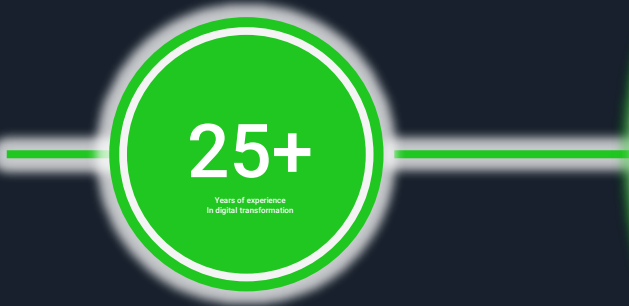
ENDORSED



25+

Years of experience
in digital transformation

Ematica: Experience and Innovation



Ematica: Experience and Innovation



ematica
Intelligence At Work



AVEVA
Partner Ecosystem

System
Integrator





AVEVA
Sustainability
Impact Partner



 **ematica**
Intelligence At Work

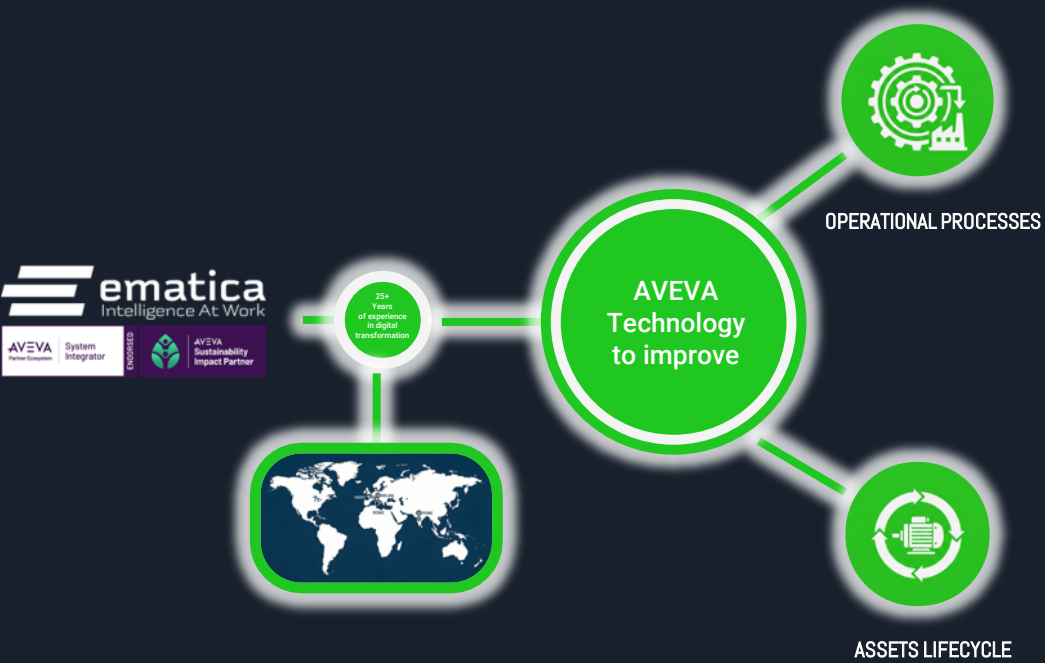
 **AVEVA**
Partner Ecosystem

 **System Integrator**

 **ENDORSED**

 **AVEVA Sustainability Impact Partner**





200+

Projects worldwide

AI for Industrial Performance & Sustainability

120+

WORLDWIDE CLIENTS

5

CONTINENTS

75%

LARGE-SCALE CLIENTS

50+

PROFESSIONALS & ENGINEERS

100M+

REAL-TIME TAGS MANAGED DAILY

3B€+

IN ANNUAL CLIENT SAVINGS

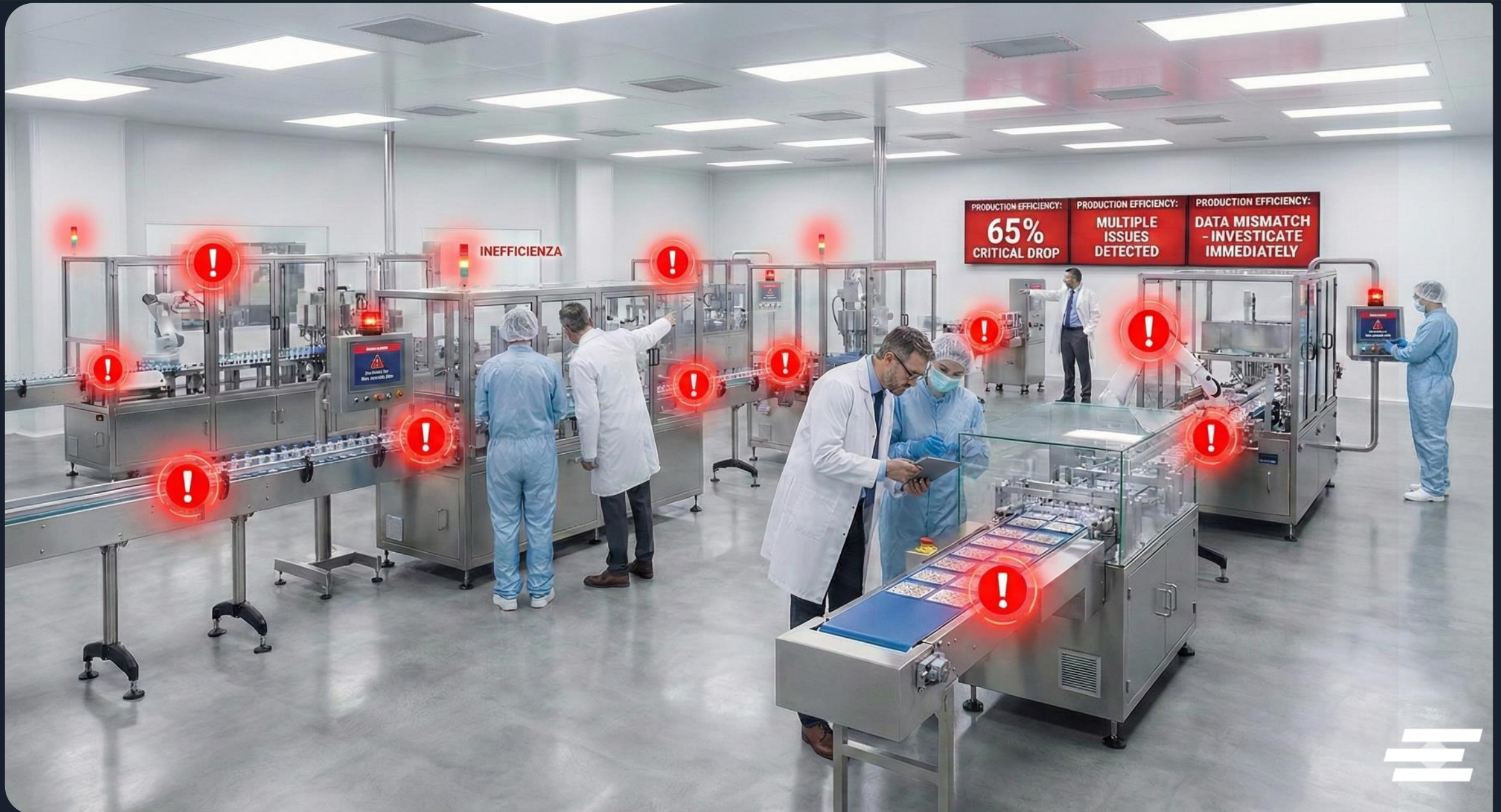
90%+

REDUCTION IN CLIENT DOWNTIME

Our daily work: smooth running



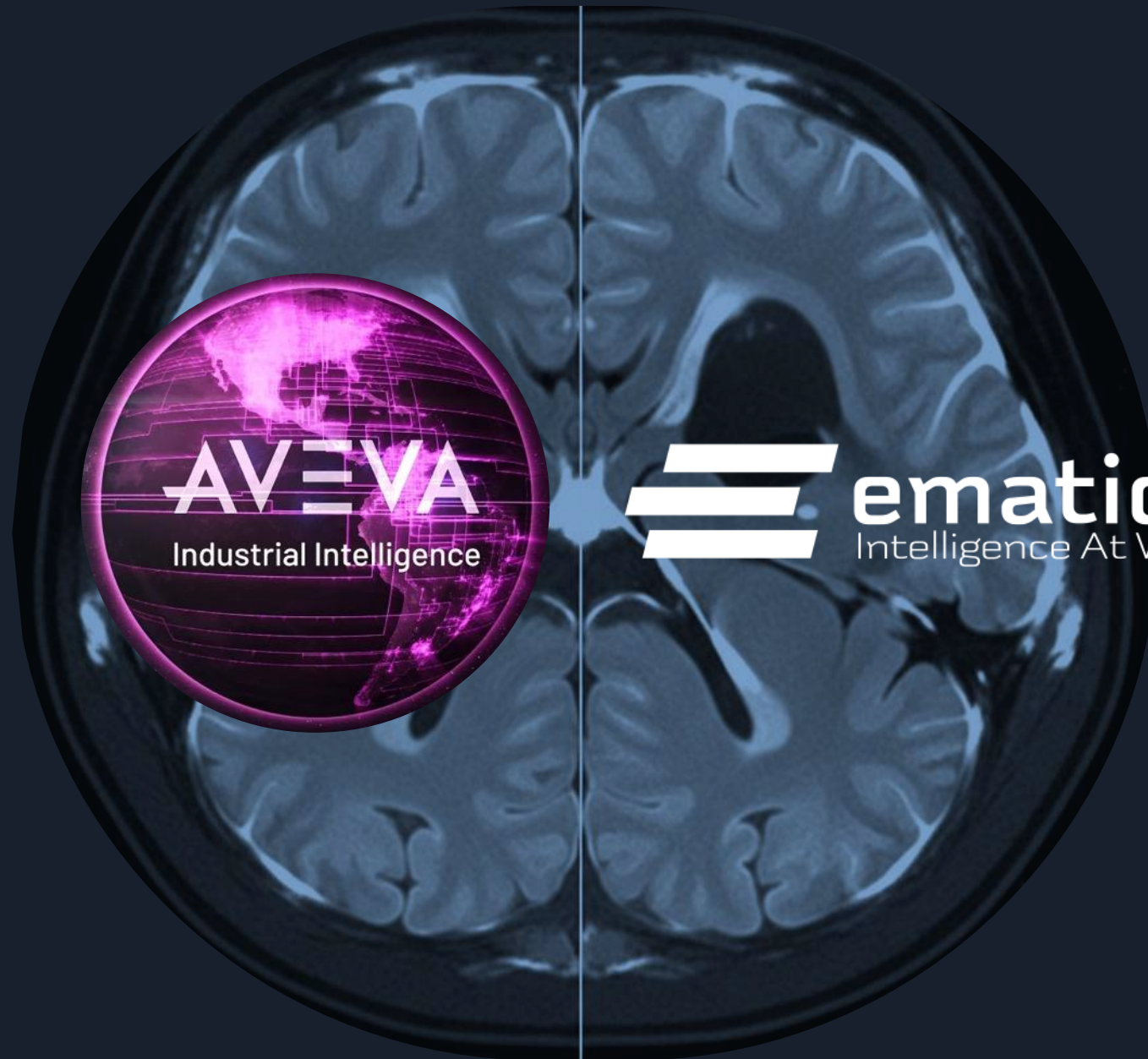
Our daily work



The right team



The right team



AVEVA
PRODUCTS

CONNECT
PI System
Asset Framework
System Platform
⋮

 **ematica**
Intelligence At Work

Human Expertise
and Skills
Machine Learning
Advanced Analytics
Advanced Viz Tech

Case studies



- ✓ **Golden Batch Mastery:** Match the ideal standard every time to slash waste and maximize cycle efficiency
- ✓ **Energy-Carbon Intelligence:** Real-time batch-level precision for instant visibility of costs and CO2 footprint
- ✓ **Precision Asset Tuning:** Fine-tuning energy-heavy assets to balance minimal consumption with premium quality

FOR A SINGLE PRODUCT

BEFORE

421 kWh

-18%

AFTER

347 kWh



DATA FOUNDATION

AVEVA PI System (Data Archive, Asset Framework, Event Frames) as the central historian and modeling engine.



EXPERTISE

Implementing plant-wide and unit-specific mass and energy balances to reveal unmeasured field data, successfully validated in real-time operations.



VISUALIZATION

PI Vision for real-time dashboards and AVEVA Reports for Operations for standardized reporting.



SKILLS

Designing intuitive, user-friendly reporting through PI Vision and AVEVA Reports, featuring secure digital signatures for every single batch.



- ✓ **Data Integrity:** Moving from manual entry to automated collection ensures data reliability for maintenance plan and reporting.
- ✓ **Reduce Energy Consumption:** AVEVA PI System will improve energy monitoring and analysis to ultimately reduce energy waste.
- ✓ **Scalability:** The architecture acts as a standard template, allowing rapid extension to other production sites for a unified corporate process and plant view.

MOVING FROM PAPER

BEFORE
UNKNOWN!

+100%

AFTER
EFFICIENCY



DATA FOUNDATION

Exploitation of AVEVA PI System capabilities combined with advanced Data Science for rigorous data cleaning and processing.



MACHINE LEARNING



ENERGY KPIs

Analysis of electrical consumption per plant, correlating energy usage directly with treated water volume.



PUMP EFFICIENCY

Weekly calculation of efficiency indices based on absorbed current, flow rate, pressure, and groundwater level.



CHEMICAL DOSAGE

Optimization of reagent usage (e.g., FESO₄) by crossing flow rates with laboratory analysis to find the ideal operating point.



- ✓ **Virtual models:** Use of industrial analytical models and thermodynamic balance applied to mining systems, creation of a virtual model of dryers .
- ✓ **Reduce Energy Consumption:** exploitation of these models to identify the most impactful elements for the reduction of energy consumption
- ✓ **Energy-Carbon Intelligence:** Better understanding of plant behaviour and the relationships between process variables to achieve a drastic reduction in costs and CO2 footprint

A SPECIFIC REAL CASE OF ANOMALY PROMPTLY MANAGED ON A DRYER

BEFORE

20,000 kWh

-30%

AFTER

14,000 kWh



AVEVA

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DATA FOUNDATION

Data Archive + Asset
Framework + Event Frames



ADVANCED ANALYTICS

ML to optimize data
cleaning (fundamental for
data analysis)



EXPERTISE

The application of
industrial analytics models
to mining systems

AVEVA +  **ematica**
Intelligence At Work



Operational Excellence



Smart Asset Lifecycle

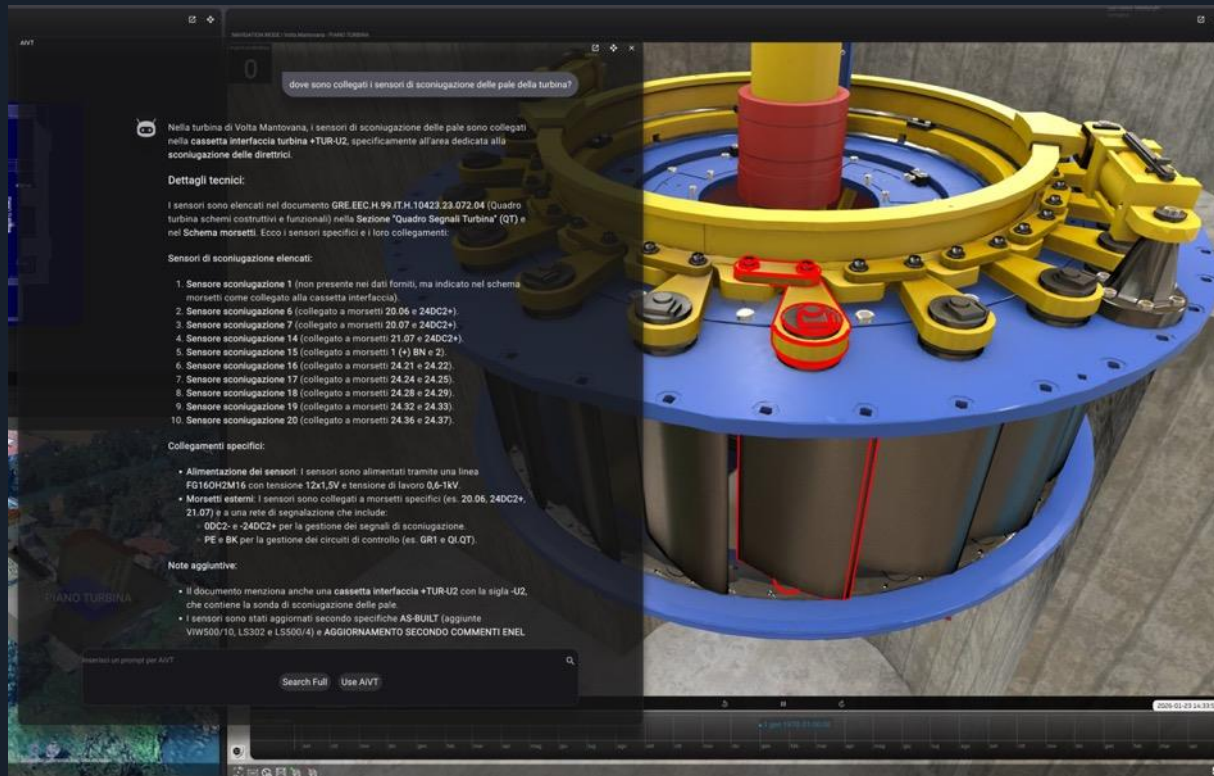


Production Efficiency



Sustainability & Energy

AVEVA + **ematica**
Intelligence At Work



«The future isn't about removing the human from the loop; it's about giving them "superpowers." We are moving from data analysis in the control room to immersive, actionable intelligence everywhere.»

Visit us at our booth

Let's keep the conversation going! Drop by our **S6 Booth** for a complimentary Strategy Lab Session and a Custom Assessment.





Thank you!

www.e-matica.com