

Artificial Intelligence for monitoring, predicting, and optimizing complex systems

GMV PitIA® transforms operational data into actionable insights to monitor, predict, and optimize complex systems using machine learning and explainable artificial intelligence.

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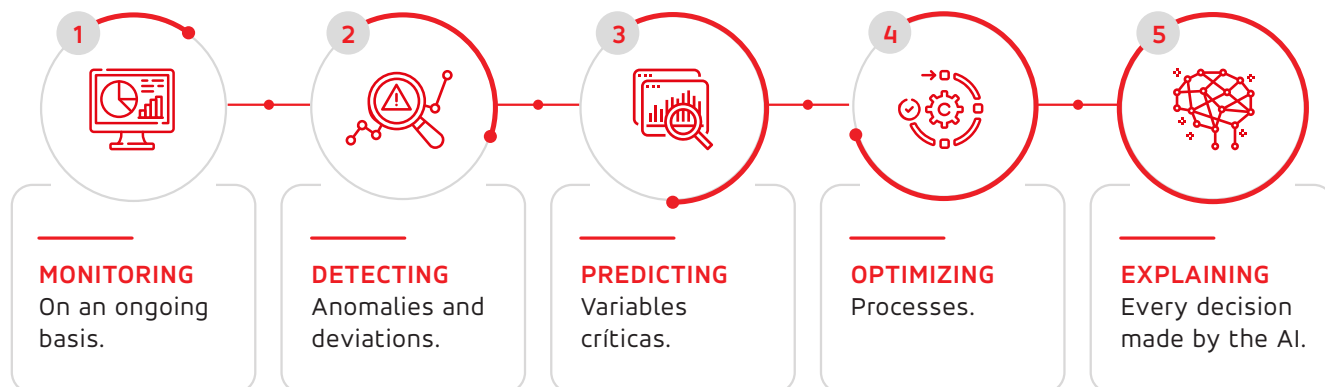
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A PLATFORM DESIGNED FOR CRITICAL OPERATIONS

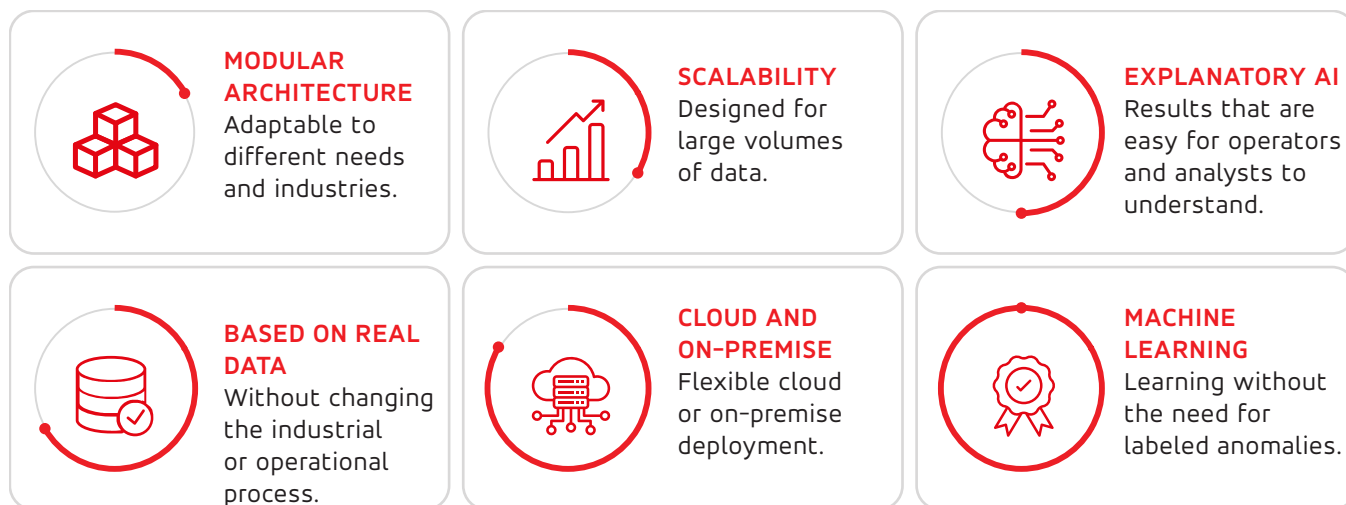
GMV PitIA® uses historical and operational data to automatically learn the normal behavior of each system and identify deviations before they become a problem, with no need for large sets of labeled failure data.

From data to **smart decisions**



EXPLAINABLE AI: Understand why the AI makes each decision and act confidently.

Why **GMV PitIA®**?



GMV PitIA® combines cutting-edge AI, flexibility, and operational intelligence to transform data into **decisions that make an impact.**



AI FOR OPTIMIZING INDUSTRIAL PROCESSES

Process analyzers are essential equipment for industrial operations. However, purchasing them can mean investing hundreds of thousands of euros, in addition to high maintenance, calibration, and operating costs. Optimizing how they're used without losing visibility into the process greatly improves efficiency and reduces costs.

GMV PitIA® uses predictive models based on historical and operational data to estimate critical variables, even when certain measurement devices are unavailable. The **PitIA** platform improves plant availability, optimizes maintenance, and reduces the use of physical analyzers without compromising monitoring capabilities.



SUCCESS STORY

Intelligent prediction of critical variables

PitIA maintains a reliable estimate of critical variables when analyzers are turned off, reducing the operating time of equipment that can cost hundreds of thousands of euros, without compromising process control.

BENEFICIOS

- Reduced operating time.
- Lower operating costs.
- Continuous monitoring even without direct measurement.
- Increased plant availability.
- Data-driven operations.
- Constantly evolving models.



Turn industrial data into operational intelligence

Algorithm	Model Performance	Scalability	Usability	Reliability & Robutness
PitIA	●	●	●	●
XGBoost	●	●	●	●
LGBM	●	●	●	●
Random Forest	●	●	●	●