

Early detection of anomalies

At GMV we are working to improve the processes, services and products of our customers, developing technologies that increase the efficiency of their processes and allow them to deliver the best results to the end user. With the **GMV PitIA** solution we place at the disposal of the industrial sector:

- A modular system for the monitoring and early warning of anomalies in production processes and critical equipment.
- A flexible solution which can adapt to the specific needs of the customer and can be integrated with operational data recording platforms.
- A tool to support the operation of continuous and batch processes and their optimisation.

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MAIN FEATURES

Architecture

- Scalable and modular.
- Solution encapsulated in Docker containers.

Data acquisition

- Historical operational data capture, maintenance or planning based on connectors.
- Preparation of data via transformation (ETL process: Extract, Transform and Load).
- Real-time prediction.

Processing

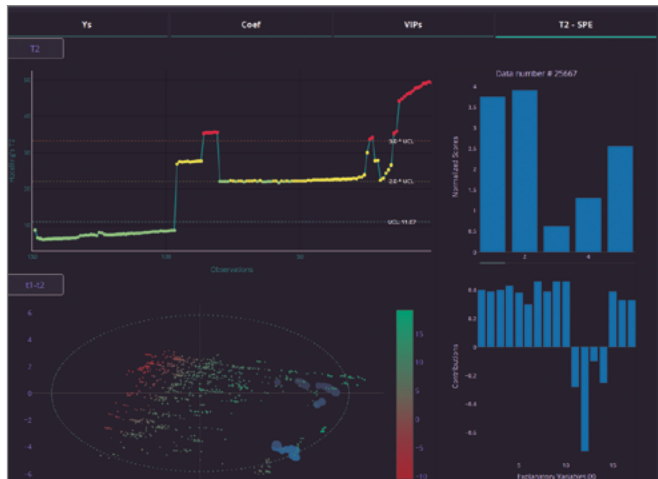
- Modelling via multivariate statistical methods.
- PCA and PLS models based on Latent Variables.
- Interactive tool for preparing models.
- Also applicable to multi-product plants.
- Custom metrics for the early detection of anomalies in the operation and in the model itself.

Model maintenance

- Simple tools for readjusting models.

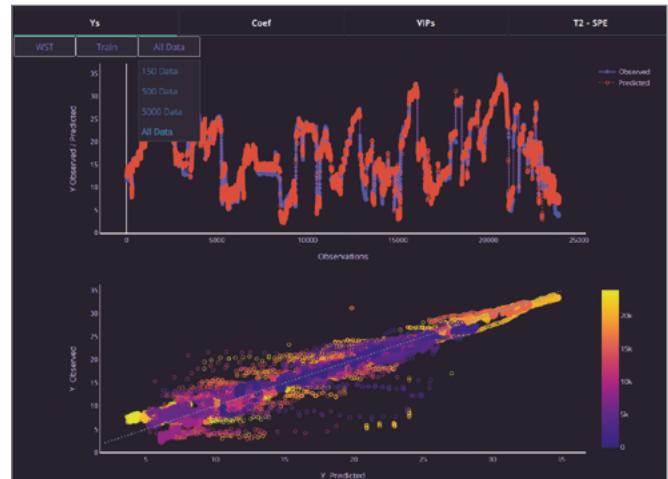
Start-up

- Only representative operational data are required.



Commercialisation

- On-premise installation within the customer's infrastructures or cloud installation.
- Self-contained solution which requires no additional third-party licences.
- Adaptation to a wide variety of environments via connectors with external systems.



Scalable modular system

Easy to use for operators

Simple model development and maintenance

Only operational data required (no tests)

Connection and integration with historians /SCADAs,

WHO IS IT AIMED AT?

GMV Pitia is applicable to any continuous, discontinuous or batch industrial process for which improvements to the operation are sought, in addition to care regarding the safety of people and equipment, thus increasing the quality of the end product and reducing costs through preventing unexpected stoppages. In addition, it can be used to design new processes and products, and even as a predictive maintenance technique.