

The background of the image is a deep purple with a network of glowing, intersecting lines in shades of cyan and magenta, creating a diamond-like pattern. The text is centered in the middle of the image.

AVEVA WORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

Digital Factory

Boosting efficiency, quality, and sustainability with industrial data

Behind every vision, there's a *spark*.
Behind every achievement, a *story*.

Welcome to the *Saverglass factory*,

where ambition is shaped,
& possibilities are endless.

Dreams made of glass →

Mission

Contribute to our customers' success by elevating their products with **outstanding glass containers.**



Vision

Combine leadership, social & environmental responsibility



A Premium Partner for Premium Brands



A world expert in manufacturing, customizing
and decorating high-end glass bottles.



Global Glass network



We sell glass products to customers in 100+ countries

7
Plants

12
Furnaces

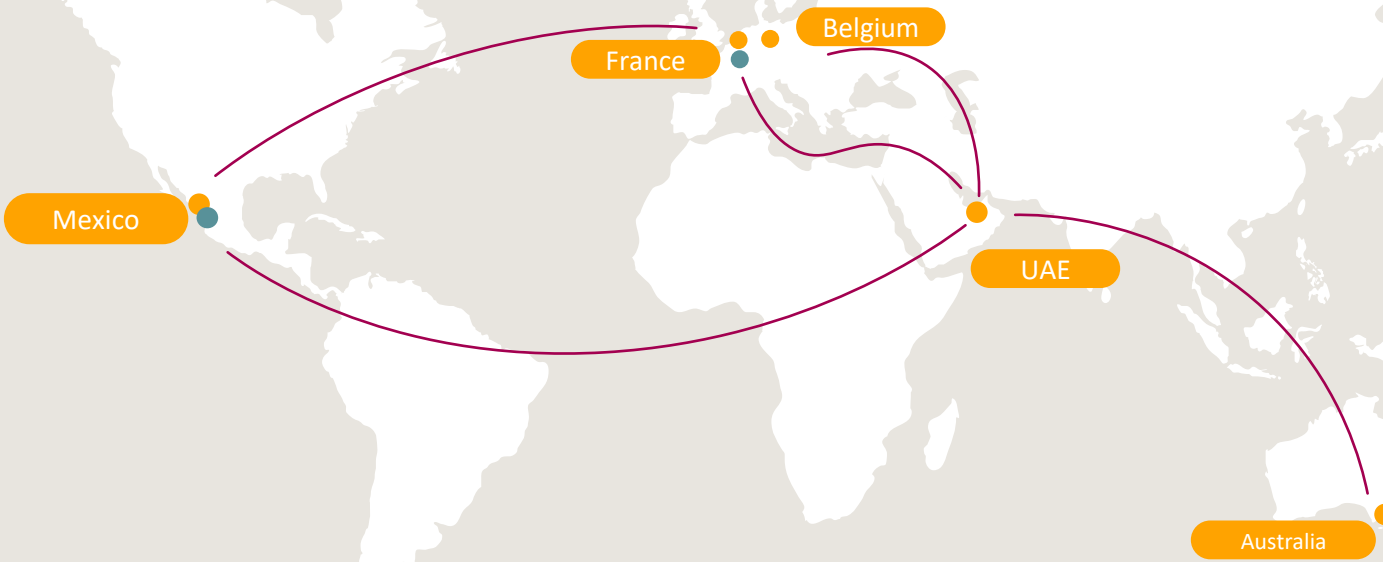
4
Decoration plants

~4,000
total employees

Global production network across four continents

200+ proprietary bottle designs

18 distribution subsidiaries worldwide



● Manufacturing sites
● Decoration plants



DIGITAL FACTORY = INDUSTRIAL PERFORMANCE

Process - Energy - Quality - Maintenance

MAXIMIZE PERFORMANCE THROUGH PROCESS DATA

- **IDENTIFY** business needs
- **COLLECT** data
- **TRANSFORM** data into Use cases
- **INTEGRATE** into the business



STRUCTURE

- Integrate our **IT STRATEGY** into the choice of tools
- Define an **ARCHITECTURE** compatible with group-wide roll-out
- Define a centralized **ORGANIZATION**
- Identify **RESOURCES** and **SKILLS**
- Identify **DATA** to be **COLLECTED**
- Establish overall **BUDGET** and **PLANNING**
- Evaluate **CHALLENGES** by Use Case

- 3 PILOT LINES
- 3 PRODUCTION SITES
- Global rollout plan



RECRUITMENT OF A CROSS SKILL DEDICATED TEAM

- Process engineers (Plant)
- Data platform manager (IT)
- Data modeling manager (R&D)
- Industrial project manager (Expertise)

PROGRESS SINCE 2023

PI deployed on 5 plants

Global ASSET FRAMEWORK

A TRAINED TEAM

+40 000 tags

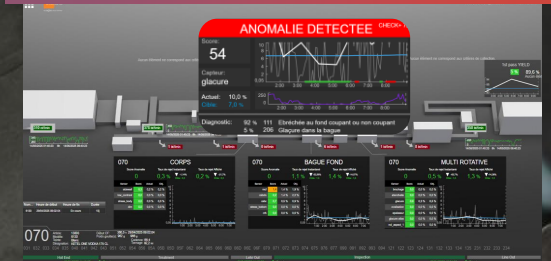
5 validated Use Cases



Gob control



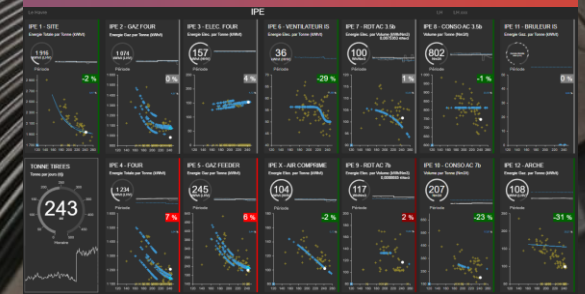
Process monitoring



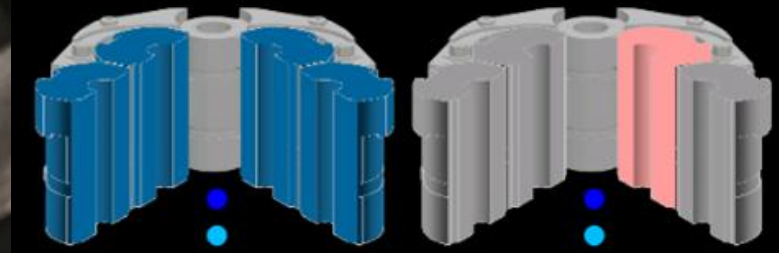
Golden batch



Energy monitoring



Mold Temperature control



USE CASE

Advanced measurements

Develop the process control

Ensure the quality

Provide data for the digital factory

« Gob control »

Automatic gob weight control

« Mold temperature control »

Automatic blank mold temperature control

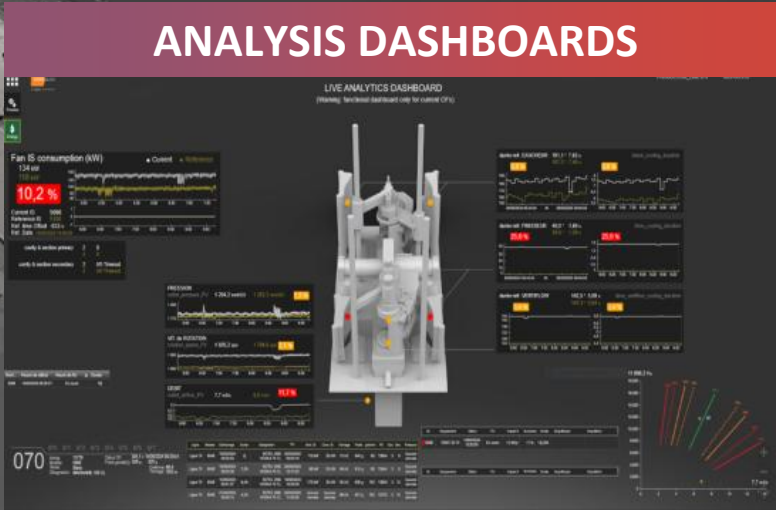
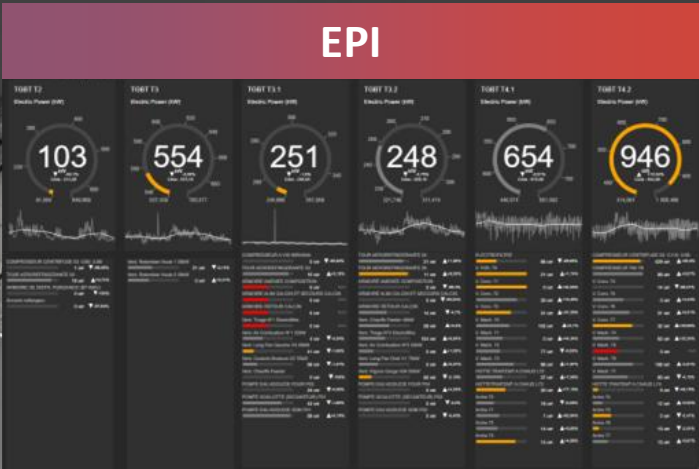
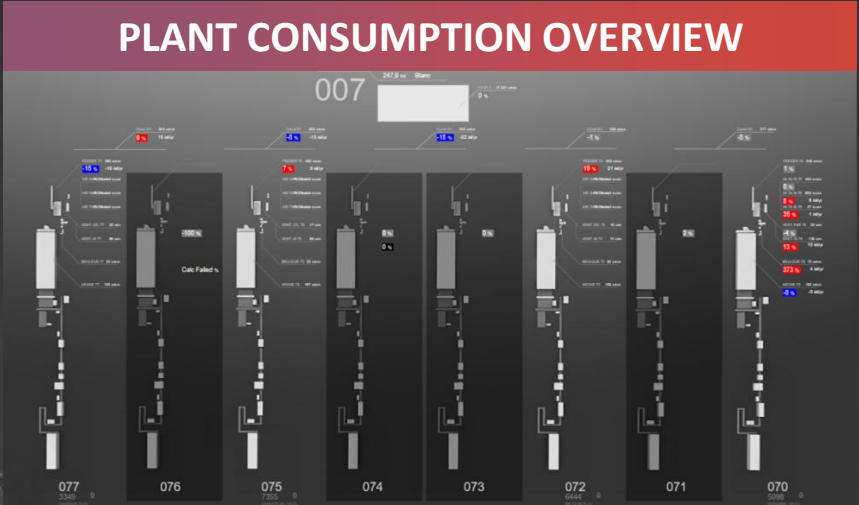
Key parameters of the glass forming process

USE CASE

Energy Monitoring

- Complete site energy monitoring
- Contextualization of consumption
- Specific analysis screen
- Automatic notifications to staff

Up to 30% savings



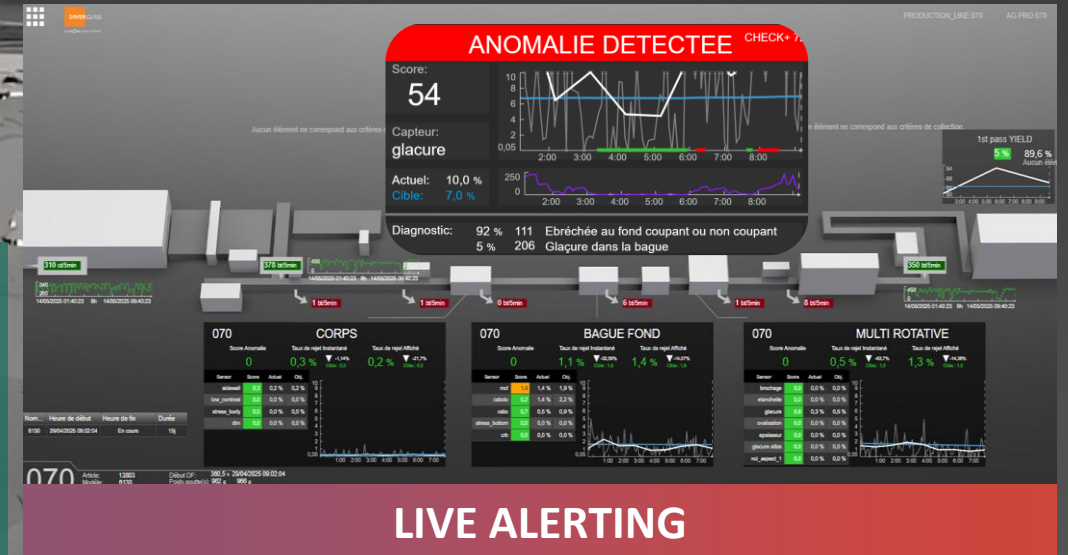
Everyday tool for teams

Maintenance Manager	Maintenance Technician	Team Leader
Operations Manager	Glass Forming Manager	Glass Cold-End Manager

USE CASE

Process monitoring

- Global performance overview
- Data contextualization
- Specific analysis screen
- Automatic notifications to operators



- Improve line performance
- Reducing reaction time
- New line management behaviour (data driven)

USE CASE

Golden Batch

RECOMMEND the best parameters to achieve the best performance

CAPITALIZE on every parameters optimization

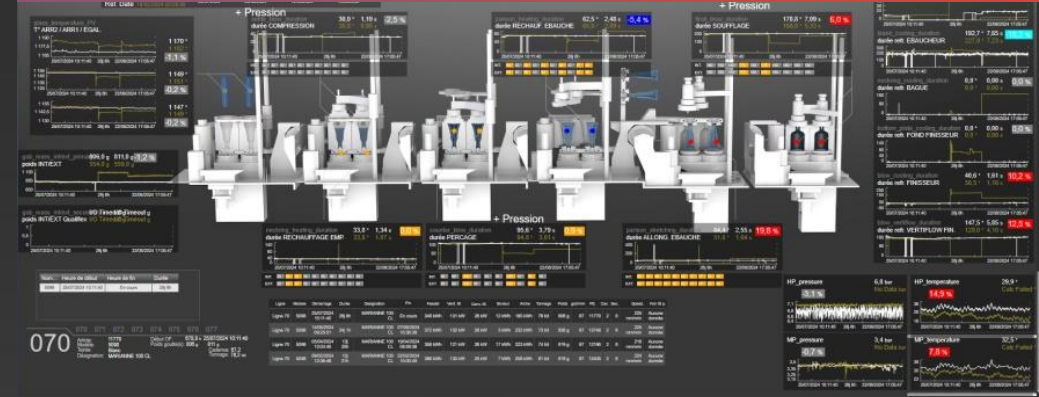
LINK Analytics to experience



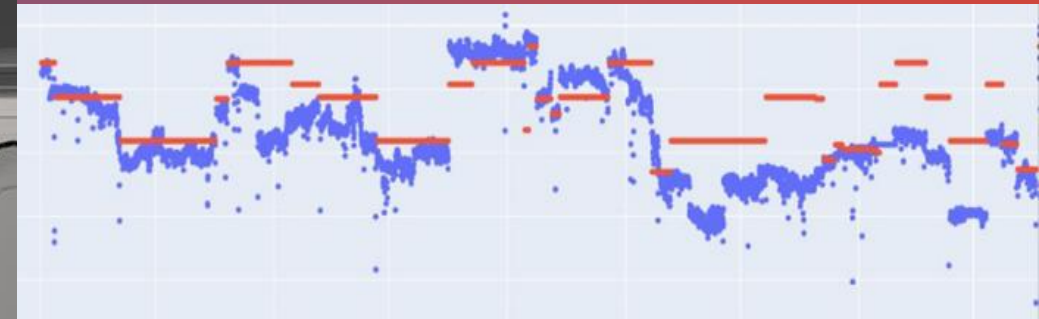
USE CASE Golden Batch

- Link between parameters and performance
- Faster ramp-up
- Avoid defect and breakdowns

Data Collection



Data Analysis



Settings Recommendations



OUTLOOK

- **DEVELOP** the digital factory with new use cases
- **PROVIDE** solutions for every stage of the process
- **DEPLOY** the project across the entire group
- **ENSURE** the solution's long-term viability



THANK YOU

For your valuable
time



Théo Rolland
Industrial Project Manager



AN ORORA GROUP COMPANY



SAVERGLASS Digital Factory: Industrial Performance



Challenge

- Limited visibility of the production process worldwide
- Lack of monitoring of process and energy across plants
- Not able to correlate between performance and process data

Solution

- AVEVA™ PI System™ to streamline data collection
- AVEVA™ Asset Framework to standardize the modeling of industrial process

Results

- Successful rollout of AVEVA PI System across all Saverglass plants
- Deployment of Energy Monitoring for the group which resulted in significant savings across Saverglass process
- Created a culture and community around the Digital Factory



AVEVA