

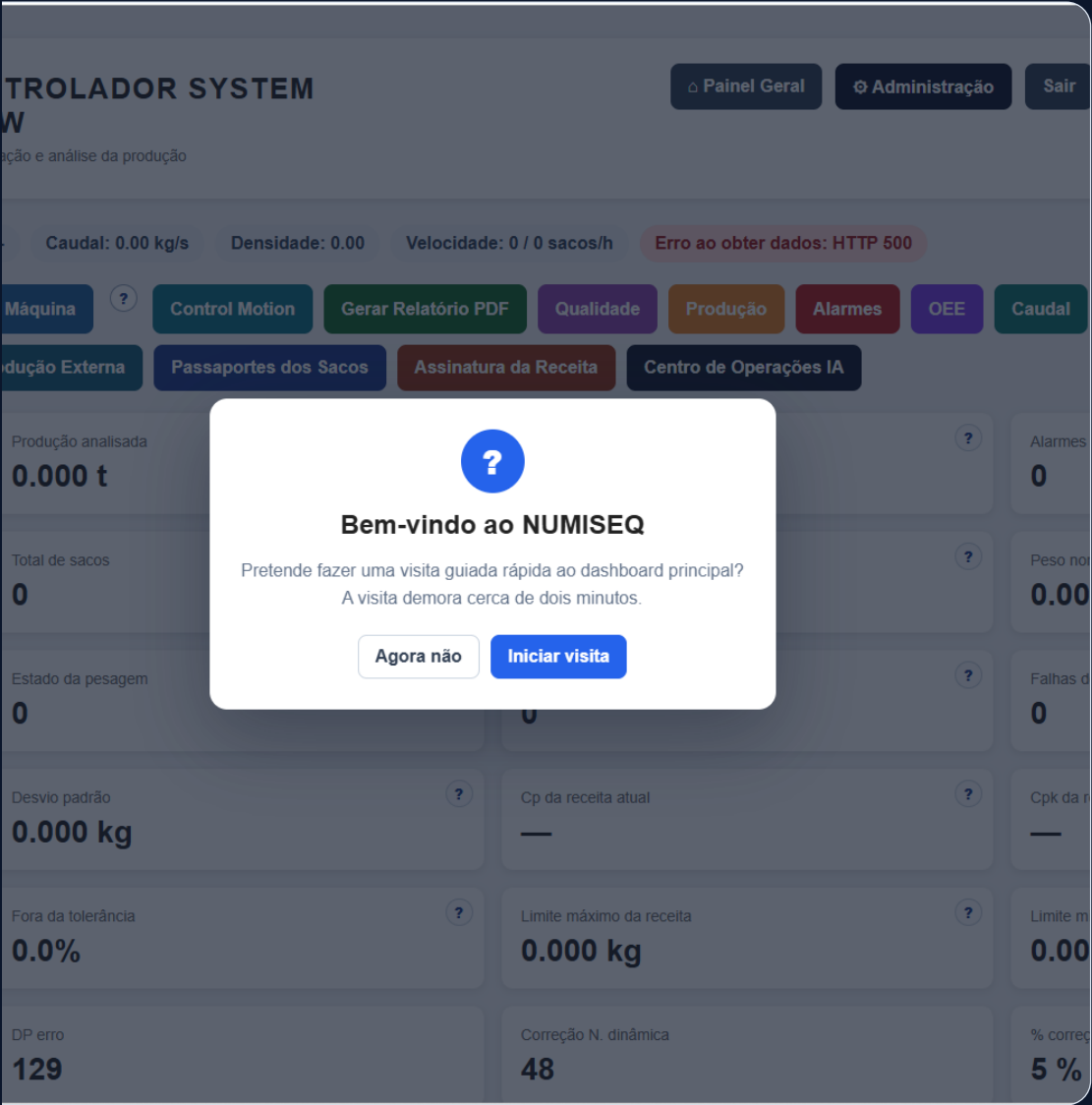
SYSTEM FLOW

Presentation manual

This section consolidates the operational indicators required to understand the industrial process.

DO PLC AO CONHECIMENTO OPERACIONAL

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.



Operational view and technical decision support.

This section consolidates the operational indicators required to understand the industrial process.

1

Operational view and technical decision support.
Operational view and technical decision support.

2

Operational view and technical decision support.
Operational view and technical decision support.

3

Operational view and technical decision support.
This section consolidates the operational indicators required to understand the industrial process.

4

Operational view and technical decision support.
Operational view and technical decision support.

Operational view and technical decision support.
This section consolidates the operational indicators required to understand the industrial process.

OPERATIONAL VIEW AND TECHNICAL DECISION SUPPORT.

Operational view and technical decision support.

This section consolidates the operational indicators required to understand the industrial process.



Operational view and technical decision support.

Operational view and technical decision support.



Operational view and technical decision support.

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Operational view and technical decision support.

Operational view and technical decision support.



Operational view and technical decision support.

Operational view and technical decision support.

Initial configuration

Operational view and technical decision support.

Initial NUMISEQ Configuration

Complete this setup to enable SYSTEM FLOW and create the first administrator.

Company or facility

DEMONSTRATION COMPANY

PLC IP address

Ex.: 192.168.0.10

It can be left empty and configured later.

Language

English

Administrator's name

System Administrator

User

admin

Password

Minimum 10 characters, including uppercase, lowercase, and numbers.

Confirm password

Important:

This account will have full access to administration, backups, users, and updates.

Complete setup and activate.

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO READ AND USE

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Installation licensing

Operational view and technical decision support.

NUMISEQ
Ativação do SYSTEM FLOW

Esta instalação necessita de uma nova licença NUMISEQ. Copie o código de pedido REQ3 e envie-o à NUMISEQ. A NUMISEQ poderá emitir uma licença de TESTE por 30 dias ou uma licença VITALÍCIA.

EMPRESA / INSTALAÇÃO
DEMONSTRATION COMPANY

IDENTIFICADOR DA INSTALAÇÃO
0244-F1C2-6734-3564-44AE-C059

CÓDIGO DE PEDIDO DE ATIVAÇÃO
REQ3-ey1IbXByZXNhIjoiREVNT0STVFjBVElPTIiB0T01QQUSZiwiaw5zdGFsYWNhb19pZCI6IjAyNDQtrjFD
Mi02Nm0LTm1nJQtNDRBRSlDM0USiIw1cHJvZHV0byI6Ik5VTU1TRVEgU1lTVEVNIIEZMT1ciLCJ2Ijozfq

Copiar código REQ3

Chave de licença
Cole aqui a chave fornecida pela NUMISEQ

Ativar licença

Tipos disponíveis: TESTE por 30 dias ou VITALÍCIA. A licença fica associada a este computador. As chaves antigas NSF2 deixam de ser aceites.

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO READ AND USE

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Operational access

Operational view and technical decision support.

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO READ AND USE

This section consolidates the operational indicators required to understand the industrial process.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

NUMISEQ

Acesso Operacional

Autentique-se para abrir o centro de operações.

Utilizador

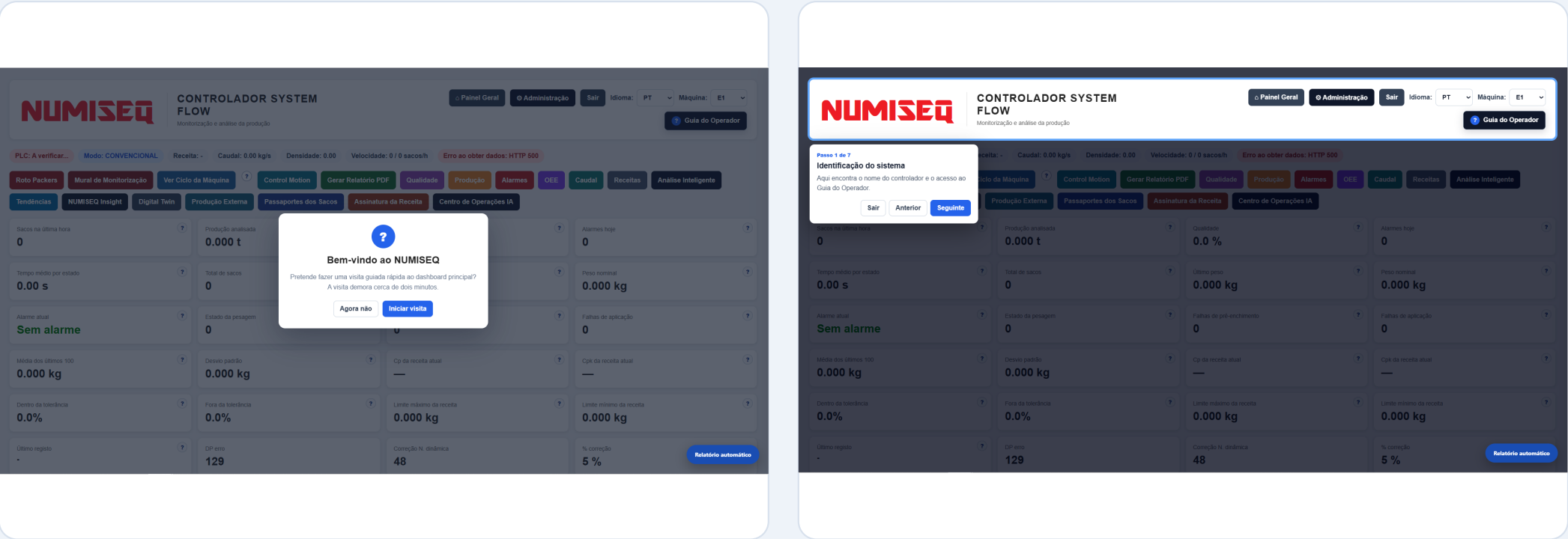
Palavra-passe

Entrar

Utilize as credenciais criadas durante a configuração inicial.
Em caso de bloqueio, contacte o administrador responsável pela instalação.

First opening and guided tour

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

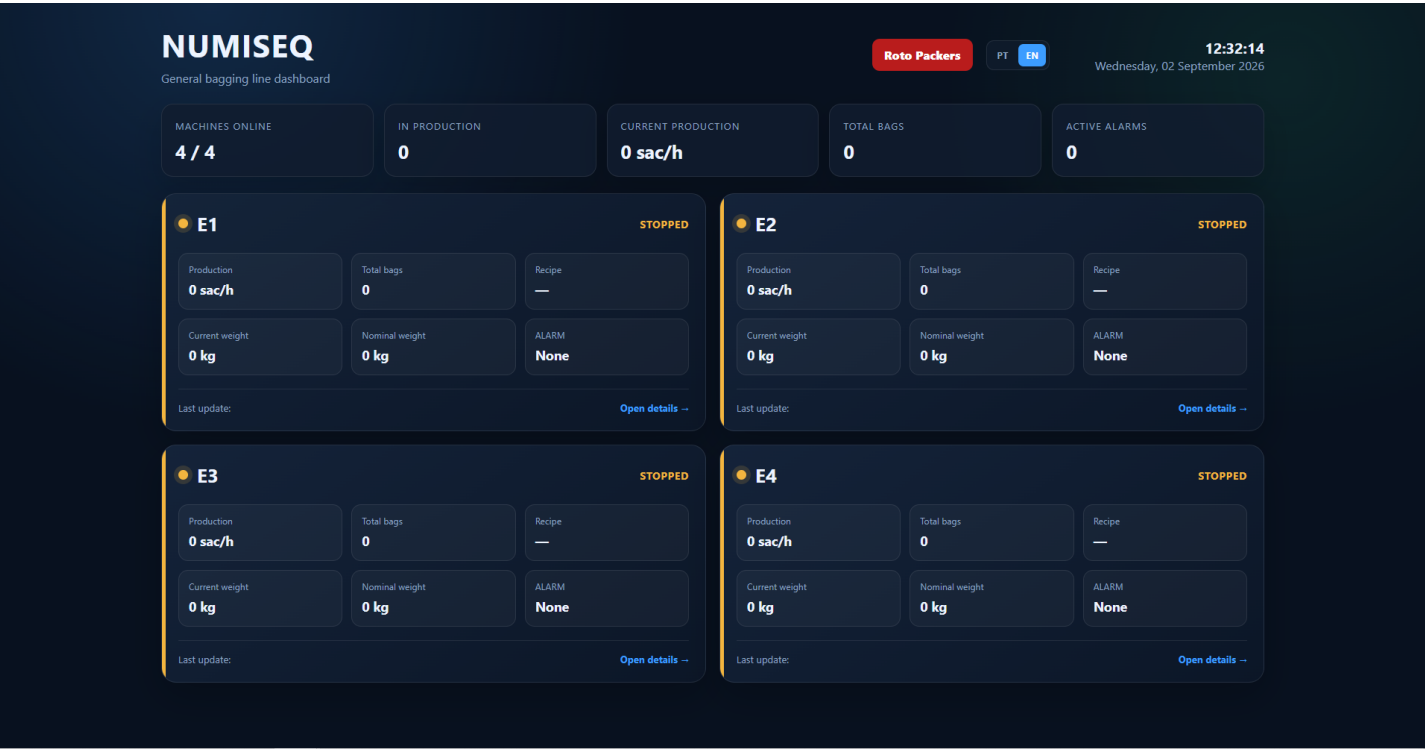
Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

This section consolidates the operational indicators required to understand the industrial process.

Plant general dashboard

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

VALUE OF INTELLIGENCE

This section consolidates the operational indicators required to understand the industrial process.

Machine main dashboard

This section consolidates the operational indicators required to understand the industrial process.

NUMISEQ

CONTROLADOR SYSTEM FLOW
Production monitoring and analysis

Main Dashboard

Administration

Log out

Language: EN

Machine: E1

Operator Guide

PLC: Checking...

Mode: CONVENTIONAL

Recipe: -

Flow rate: 0.00 kg/s

Density: 0.00

Speed: 0 / 0 bags/h

Error retrieving data: HTTP 500

Roto Packers

Monitoring Wall

View Machine Cycle

Control Motion

Generate PDF Report

Quality

Production

Alarms

OEE

Flow rate

Recipes

Intelligent Analysis

Trends

NUMISEQ Insight

Digital Twin

External Production

Bag Passports

Recipe Signature

AI Operations Centre

Bags in the last hour

0

Analysed production

0.000 t

Quality

0.0 %

Alarms today

0

Average time per state

0.00 s

Total bags

0

Latest weight

0.000 kg

Nominal weight

0.000 kg

Current alarm

No alarm

Weighing state

0

Pre-filling failures

0

Bag application failures

0

Average of last 100

0.000 kg

Standard deviation

0.000 kg

Current recipe Cp

—

Current recipe Cpk

—

Within tolerance

0.0%

Outside tolerance

0.0%

Recipe upper limit

0.000 kg

Recipe lower limit

0.000 kg

Latest record

-

DIP error

129

N. dynamic correction

48

% correction

5 %

Automatic report

Latest cycle stages

Waiting for state changes...

Latest alarms

Date	Time	Code	State	Weight
------	------	------	-------	--------

Latest saved bags

ID	Date	Time	Total	Weight	Nominal	Alarm	State
----	------	------	-------	--------	---------	-------	-------

Industrial Events Timeline

Persistent events for the selected machine

Events updated at 14:46:10

There are no industrial events for this machine yet.

Automatic report

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

This section consolidates the operational indicators required to understand the industrial process.

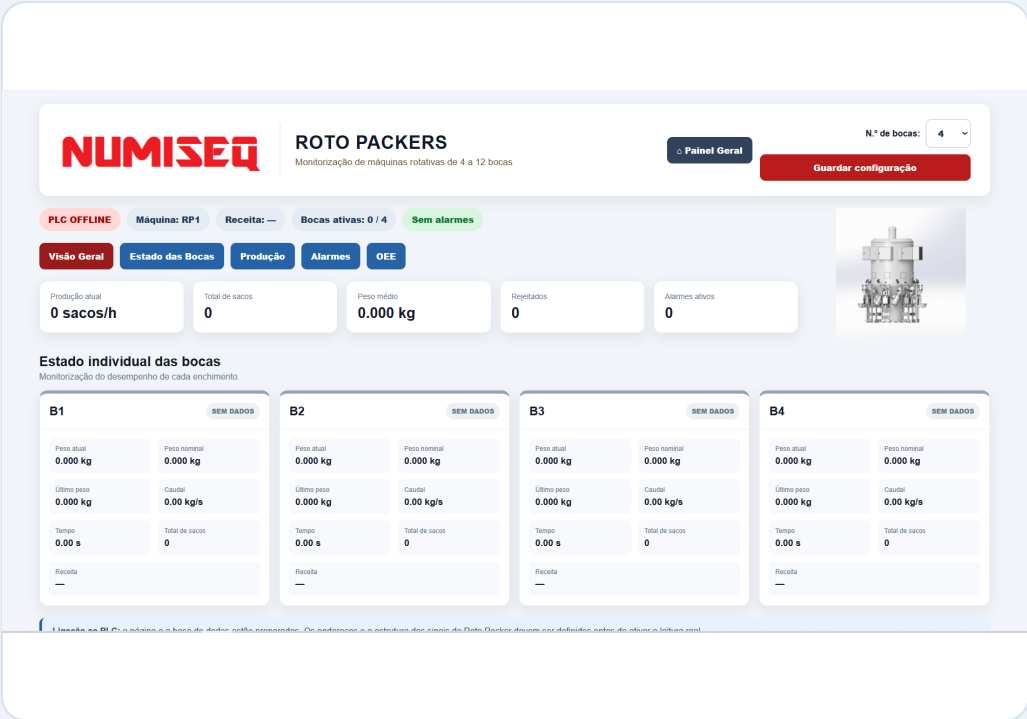
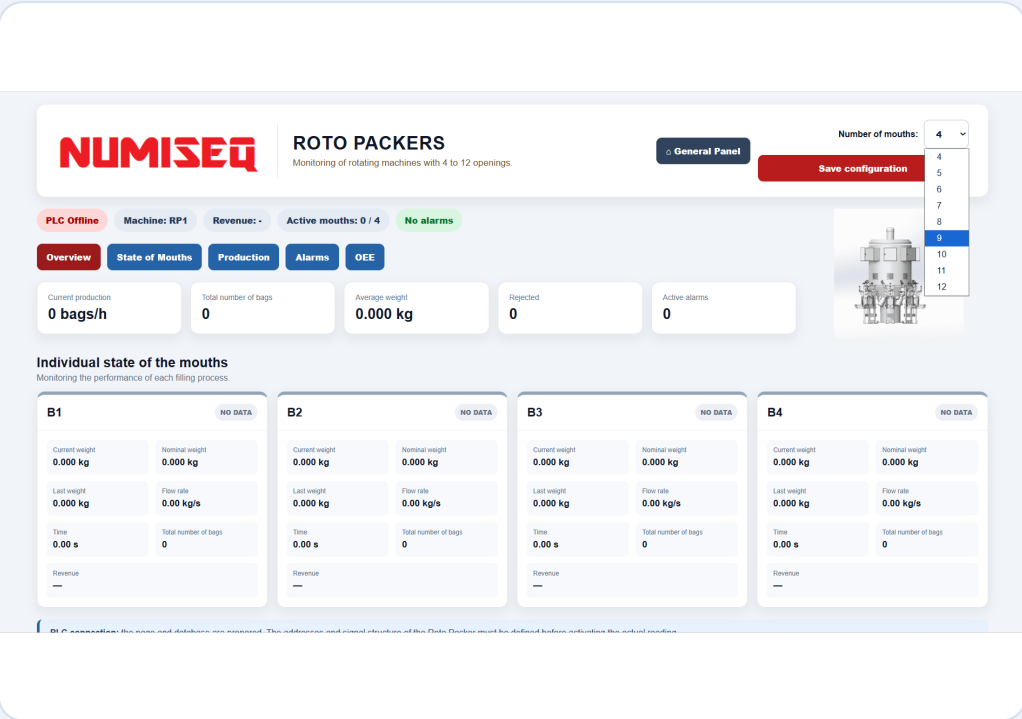
AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

OPERATIONAL VIEW AND TECHNICAL DECISION SUPPORT.

Roto Packers - filling spout overview

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

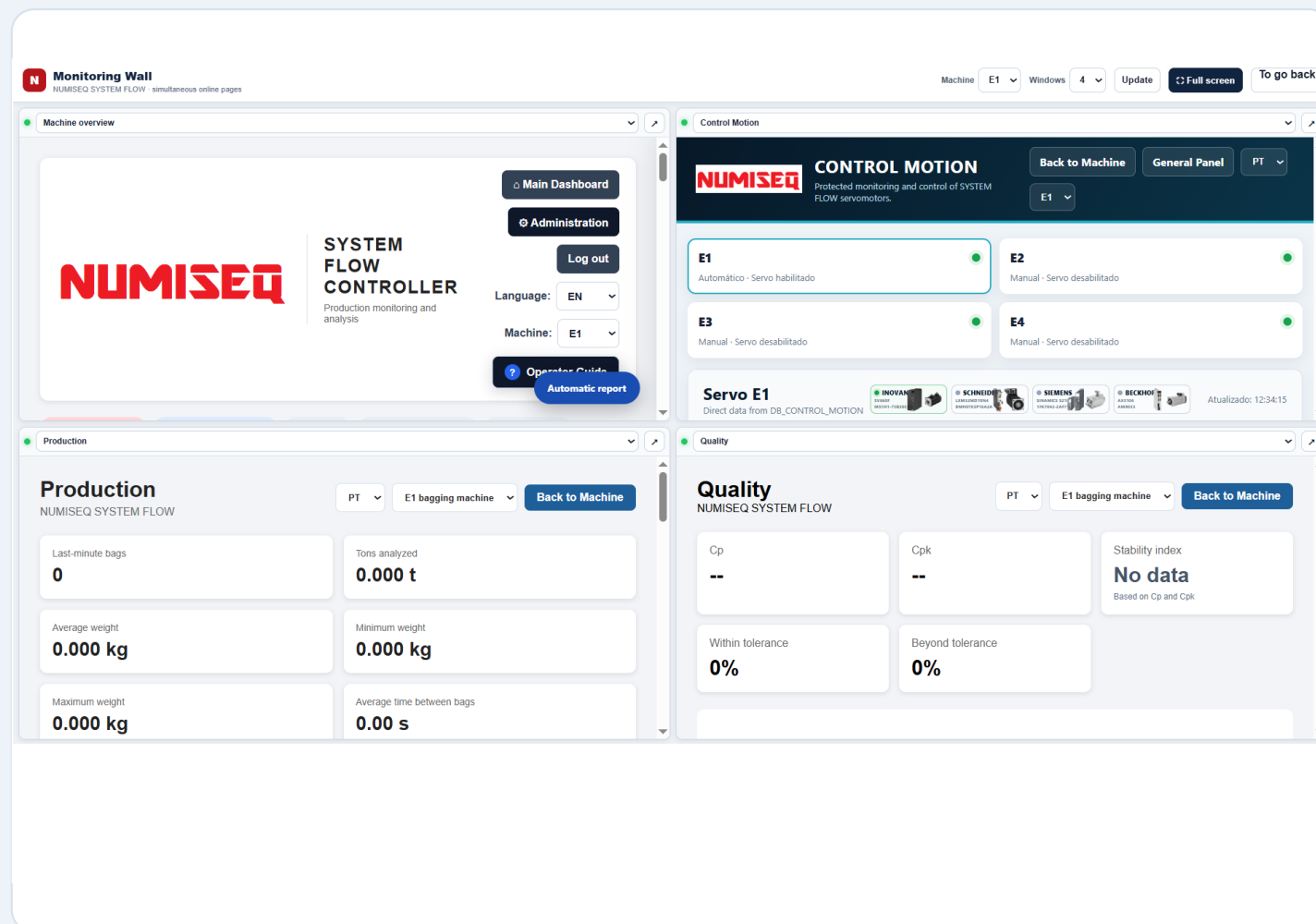
Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Production wallboard

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

This section consolidates the operational indicators required to understand the industrial process.

VALUE OF INTELLIGENCE

This section consolidates the operational indicators required to understand the industrial process.

Bagging cycle analyzer

Operational view and technical decision support.

Bag Cycle Analyzer

NUMISEQ SYSTEM FLOW - state times, final weight and filling stability

PT

EN

E1 bagging machine

Back to Machine

Error retrieving data from E1: HTTP 500

Current state

Communication error

Selected bag

—

Bag weight

0.000 kg

Total time of the selected cycle

0.00 s

longer state

—

Greatest deviation from the reference

No reference

Current cycle sequence

Sack cycle times

Each blue bar shows the actual duration of the state, in milliseconds, from ST_PRE_ENCHIMENTO to ST_FINAL_PESAGEM.

Active time per state (ms)

Intelligent diagnosis of the cycle

Awaiting sufficient data to analyze the bag.

Comparison with reference times

The reference uses only completed bags from the same machine, recipe, nominal weight, and weighing method. The value shown is the median of equivalent cycles.

Not enough cycles to calculate a reference.

Bag history available

Click on a bag to view its status times.

Awaiting complete cycles...

Latest status changes

Date	Time	Bag	Total time	Real-time filling (6–10)	Weight
------	------	-----	------------	--------------------------	--------

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

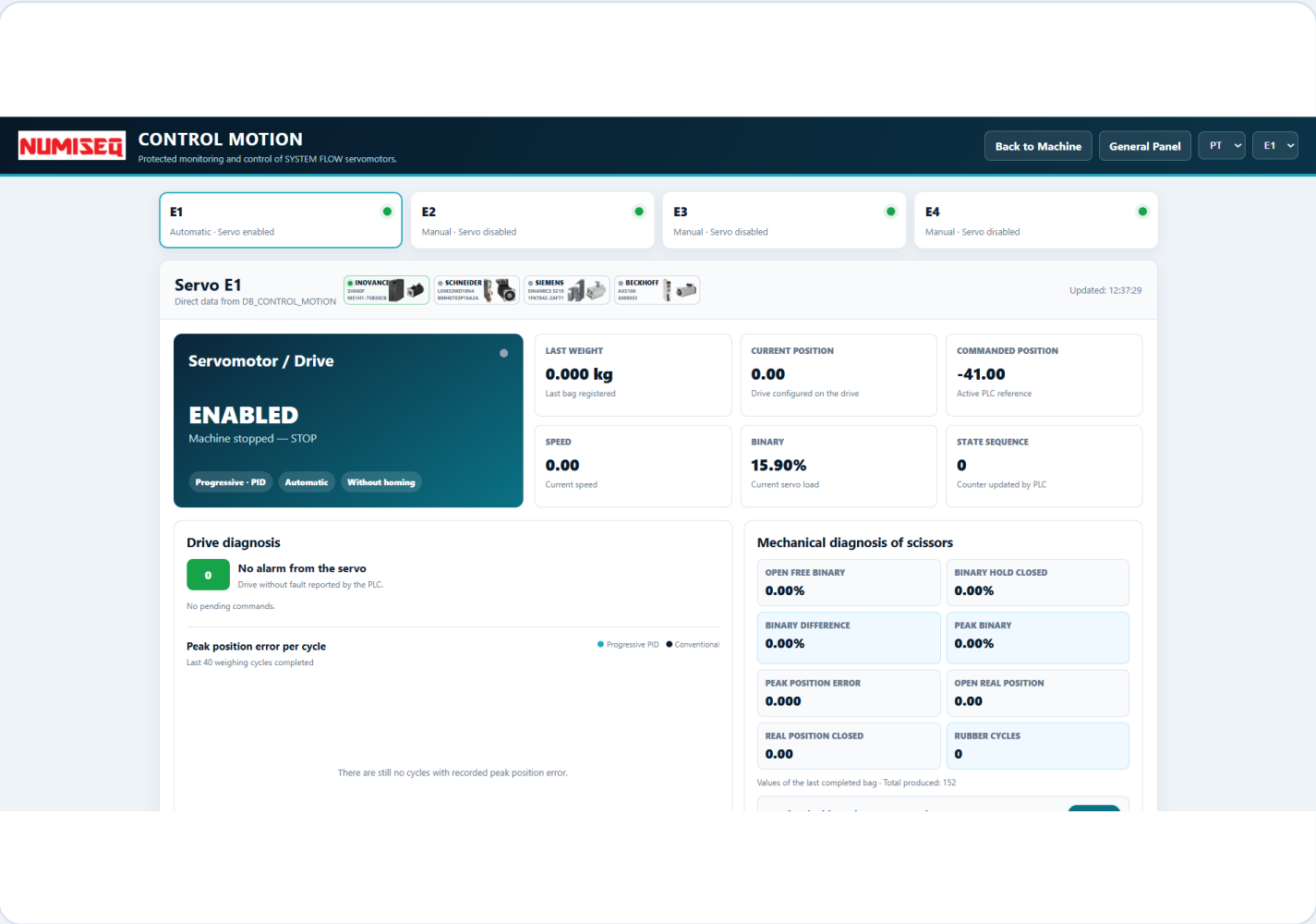
Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Servomotor and process status

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Parameters and corrections

Operational view and technical decision support.

There are still no cycles with recorded peak position error.

REAL POSITION CLOSED
0.00

RUBBER CYCLES
0

Values of the last completed bag - Total produced: 152

Mechanical learning - Progressive

Reference

Reference Progressive: 0/100 valid bags. Current block: 0/100 - Progressive: 0/100 - Conventional: 0/100

The Progressive comparison begins when this reference reaches 100 bags.

Control Motion parameters and corrections

Current values received directly from the DB_REPORTING of the selected machine.

Estimated servo consumption

Estimated V1: 750 W in motion - 50 W enabled stationary

LAST CYCLE
-- Wh

AVERAGE / CYCLE
-- Wh

LAST 24 HOURS
-- Wh

TOTAL ENERGY
0.000 kWh

PRICE / KWH
0,2€

CURRENT COST
0.00 €

HELP



DP ERROR
129

DYNAMIC CORRECTION
(dynamic correction mode)
3
Mode 2 = no correction - Mode 3 = active dynamic correction

% PID
75.00%

GAIN I
0

MINIMUM OUTPUT
0.00%

CORR. N DIN
48

% CORRECTION
5%

GAIN P
4000

GAIN D
0

MAXIMUM OUTPUT
100.00%

AI NUMISEQ Mechanical Co-pilot

Automatic interpretation of real servo and scissor data.

ALARM ACTIVE

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

This section consolidates the operational indicators required to understand the industrial process.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Operational view and technical decision support.

CONTROL MOTION

14

Evidence-based diagnosis

Operational view and technical decision support.

AI

NUMISEQ Mechanical Co-pilot

Automatic interpretation of real servo and scissor data.

ALARM ACTIVE

Equipment in alarm #5 — Weighing Controller in STOP

The filling cycle was interrupted because a condition of the current state was not met, such as a lack of material during pre-filling, coarse filling, or fine filling. Consequently, the controller entered STOP mode.

Check the state in which the cycle stopped and correct the corresponding process condition. Then, press the fill button again to restart the cycle. If the cycle does not restart or the controller does not respond, check the power supply, communication with the PLC, and the safety circuit.

The actual PLC alarm takes priority over preventive analysis of the servo and rubber.

Zero control and tare weight

Analysis of the value converted into grams, stability, and compensation applied before each filling.

ATTENTION

TARE CYCLE

181

Identifier updated by PLC.

ZERO BEFORE STABILIZATION.

-167 g

Oscillation left by the previous cycle.

START OF TARING

-129 g

Value after stabilization time

AVERAGE TARING

-112 g

Compensation calculated over the period

MINIMUM / MAXIMUM

-129 / -103 g

Extremes measured during taring.

FLUCTUATION DURING TARING

+26 g

Slight fluctuation

COMPENSATION APPLIED

-112 g

Calculated: -112 g - ACCEPT

TARA BEFORE / AFTER

-288 / -400 g

Evolution of dynamic tare

ZERO AFTER CORRECTION

0 g

Zero within the normal range

LIMIT FOR CORRECTION

±666 g

Equivalent to tar_devs = 3

DIVERSION OF THE LAST BAG

+129 g

Final weight minus nominal weight

DIAGNOSIS

Track cycles

Compare the final zero with the deviation of the bag.

HELP

EXPULSION STRUCTURE INSTALLED

Expulsion integrated into the balance

The weighing chair and the ejection cylinder are attached to the scale frame. Vibration between bags is naturally greater, and the graphs may be less linear.

INSTALLED - ACTIVE

Independent expulsion from the balance

The bag is ejected from the weighing structure. This transmits less vibration to the scale and tends to produce more linear results.

ALTERNATIVE STRUCTURE

Afterflow from the last bag

Ciclo 152

VÁLIDO

Residual material from the last cycle

Ciclo 181

VÁLIDO

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

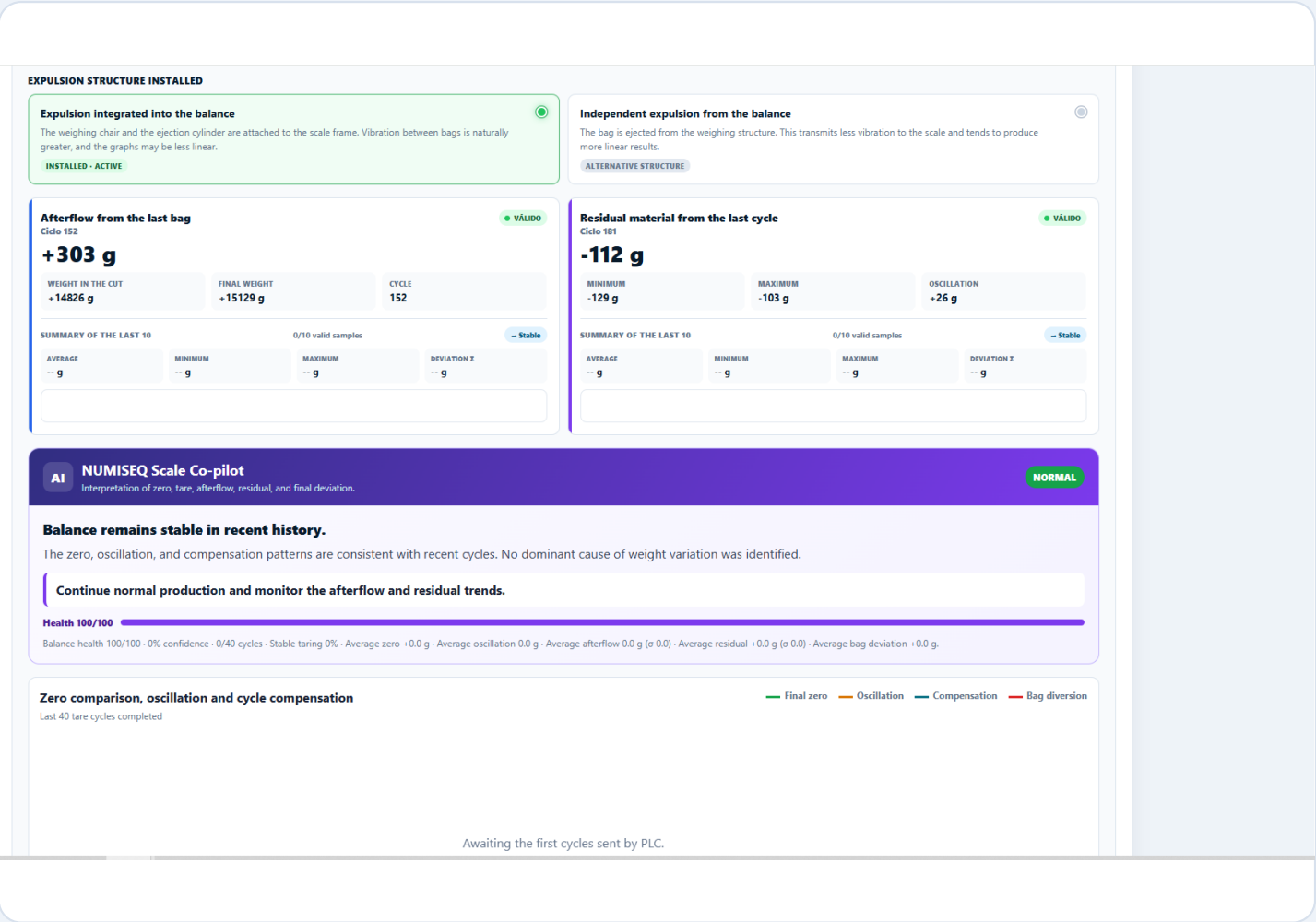
This section consolidates the operational indicators required to understand the industrial process.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Scale and cycle performance

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

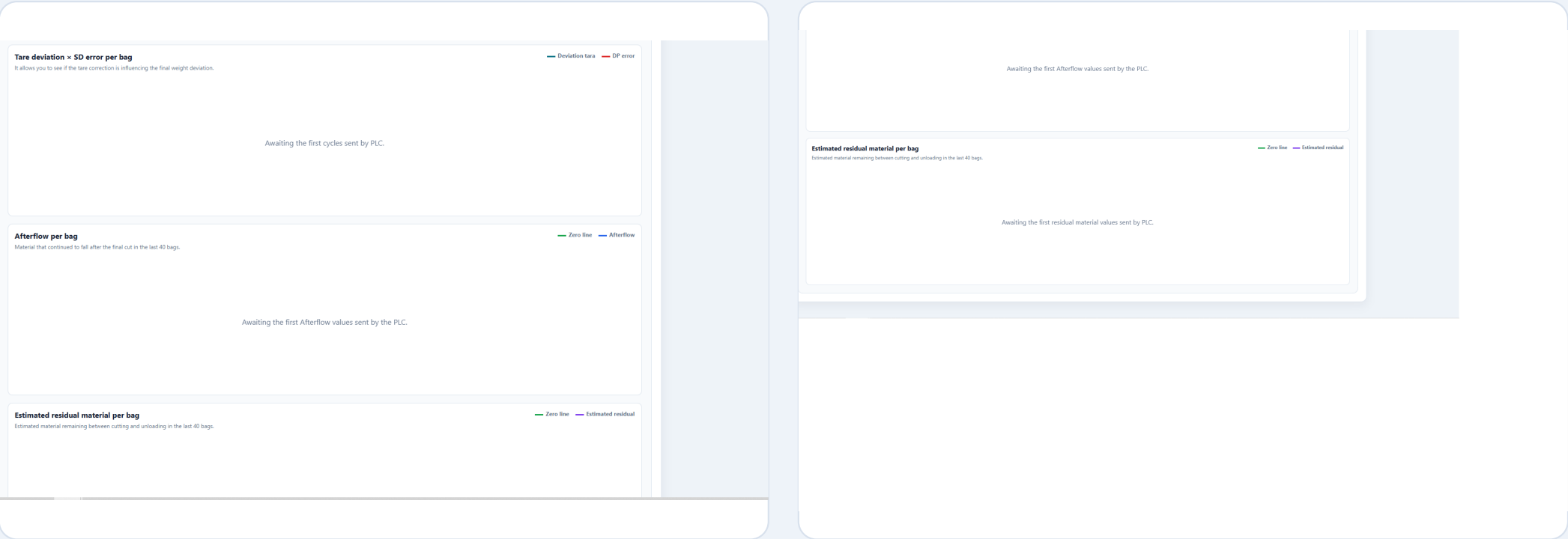
Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Position, tare and residual material charts

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

This section consolidates the operational indicators required to understand the industrial process.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Quality and tolerances

Operational view and technical decision support.

Quality

NUMISEQ SYSTEM FLOW

PT

E1 bagging machine

Back to Machine

Cp

--

Cpk

--

Stability index

No data

Based on Cp and Cpk

Within tolerance

0%

Beyond tolerance

0%

Bags outside the tolerance range

Bag	Date	Time	Weight	Nominal	Detour
-----	------	------	--------	---------	--------

PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

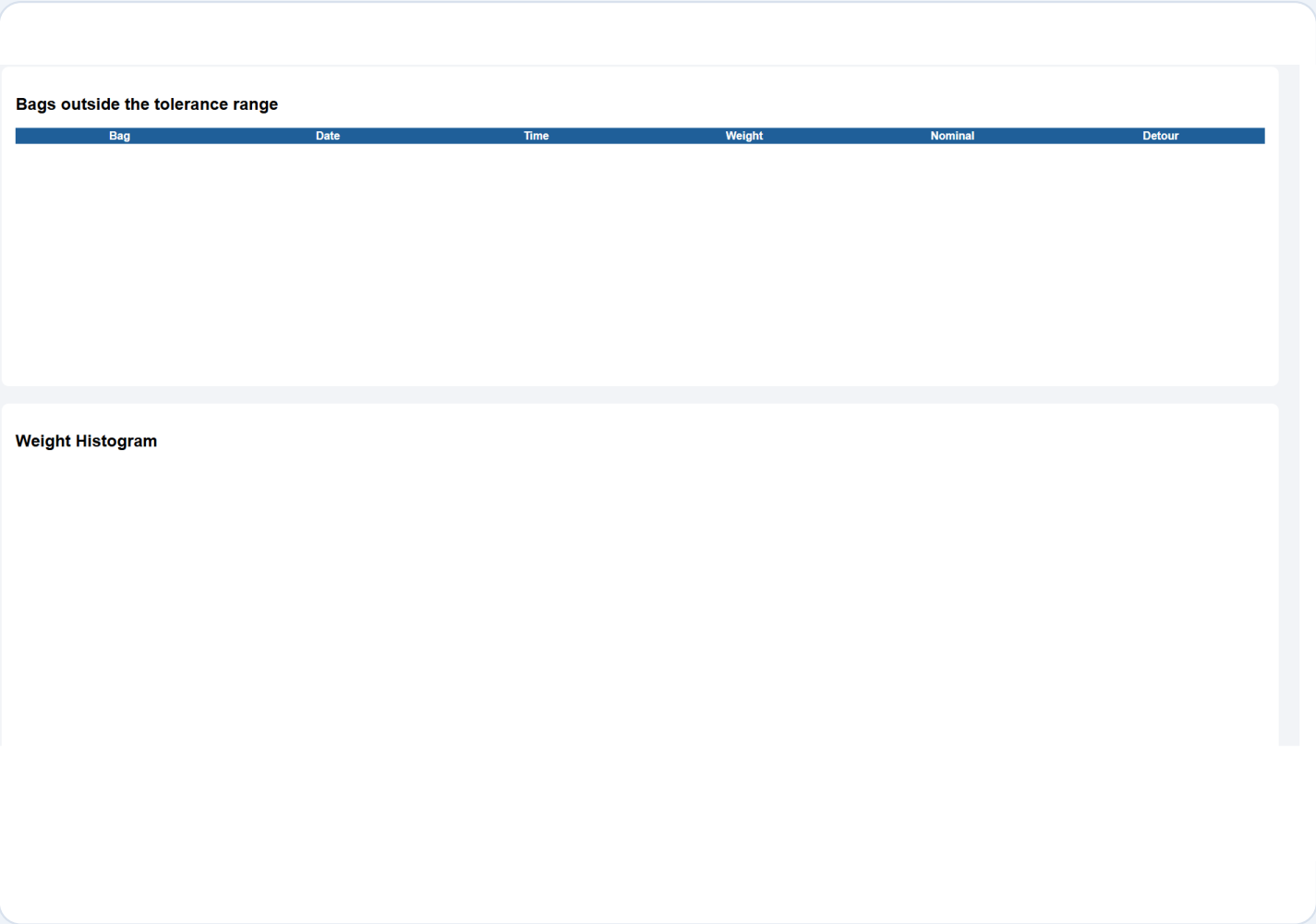
This section consolidates the operational indicators required to understand the industrial process.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Histogram and distribution analysis

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

This section consolidates the operational indicators required to understand the industrial process.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Real-time production

Operational view and technical decision support.

Production

NUMISEQ SYSTEM FLOW

PT

E1 bagging machine

Back to Machine

Last-minute bags

0

Tons analyzed

0.000 t

Average weight

0.000 kg

Minimum weight

0.000 kg

Maximum weight

0.000 kg

Average time between bags

0.00 s

Estimated production

0 bags/h

Total number of records analyzed

0

Machine analyzed

E1

Current revenue

—

Current weighing mode

—

Within tolerance

0.0%

Mean absolute deviation

0 g

Bags above / below

0 / 0

Recipes identified

0

Last bag registered

—

Production per hour

Production per hour

Real-time production - Copilot + Knowledge Engine

Analysis focused exclusively on machine productivity, production rate, waiting times between bags, and the impact of quality

State of production

Estimated performance

Similar cases

AI Trust

—

0.0%

0

0.0%

The analysis will be updated when new production data becomes available.

Last bags produced

Machine	Bag	Date	Time	Revenue	Mode	Weight	Nominal	Detour	Result
---------	-----	------	------	---------	------	--------	---------	--------	--------

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

OPERATIONAL VIEW AND TECHNICAL DECISION SUPPORT.

Alarm center and history

Operational view and technical decision support.

Alarm Centre

NUMISEQ SYSTEM FLOW

EN

Bagging Machine E1

Back to Machine

Alarms today

0

Total in period

0

Last code

0

Current status

No alarm

Filters

Start date

02/09/2026

End date

02/09/2026

Code

All

Machine status

All

Search

Date, time, code...

Search

Latest alarm recorded in the period

No alarms found.

Copilot — Active alarms now

Diagnostics and checks only for occurrences that remain active

No active alarms at this time

Frequency by code

Frequency by code

Copilot — Active alarms now

Diagnostics and checks only for occurrences that remain active

No active alarms at this time

Frequency by code

Alarm history

Print report

Export Excel

Date	Time	Code	Alarm	Severity	Status	Associated bag weight	Associated bag	Details
No alarms found.								

Updated at: 14.02.09

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

This section consolidates the operational indicators required to understand the industrial process.

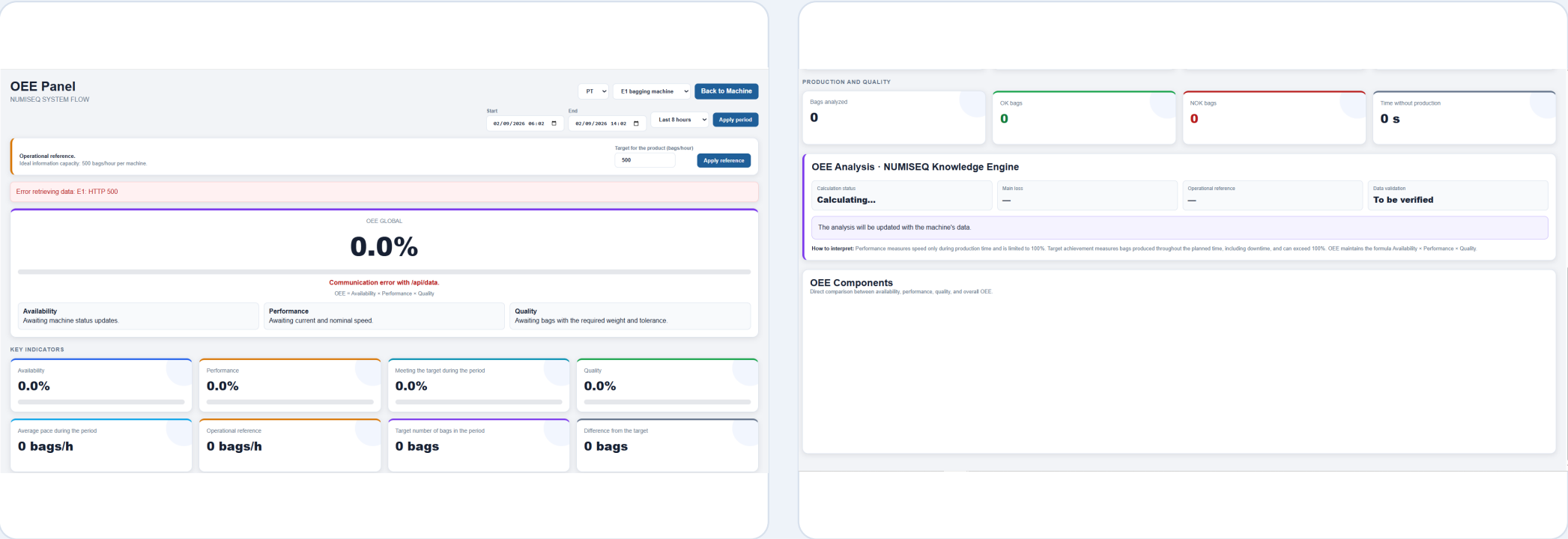
AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

OPERATIONAL VIEW AND TECHNICAL DECISION SUPPORT.

OEE - availability, performance and quality

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

This section consolidates the operational indicators required to understand the industrial process.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

OPERATIONAL VIEW AND TECHNICAL DECISION SUPPORT.

Flow rate and filling analysis

Operational view and technical decision support.

Weight and flow rate per bag

Weight versus flow rate

Last bags analyzed

Bag	Date	Time	Weight	Detour	Flow rate	Density	Caudal vol.	Revenue	Mode
-----	------	------	--------	--------	-----------	---------	-------------	---------	------

Flow Analysis

NUMISEQ SYSTEM FLOW

E1 bagging machinePTBack to Machine

Current revenue

•

Weighting mode

•

Density

0.00

Last flow

0.00 kg/s

Average flow

0.00 kg/s

Minimum flow

0.00 kg/s

Maximum flow rate

0.00 kg/s

Standard deviation of flow rate

0.00 kg/s

Coefficient of variation

0.00%

Flow stability

Calculating...

Volumetric flow rate

0.00 L/s

Bags analyzed

0

This data pertains to process stability and contributes to the calculation of the machine's health.

Filling flow rate per bag

PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

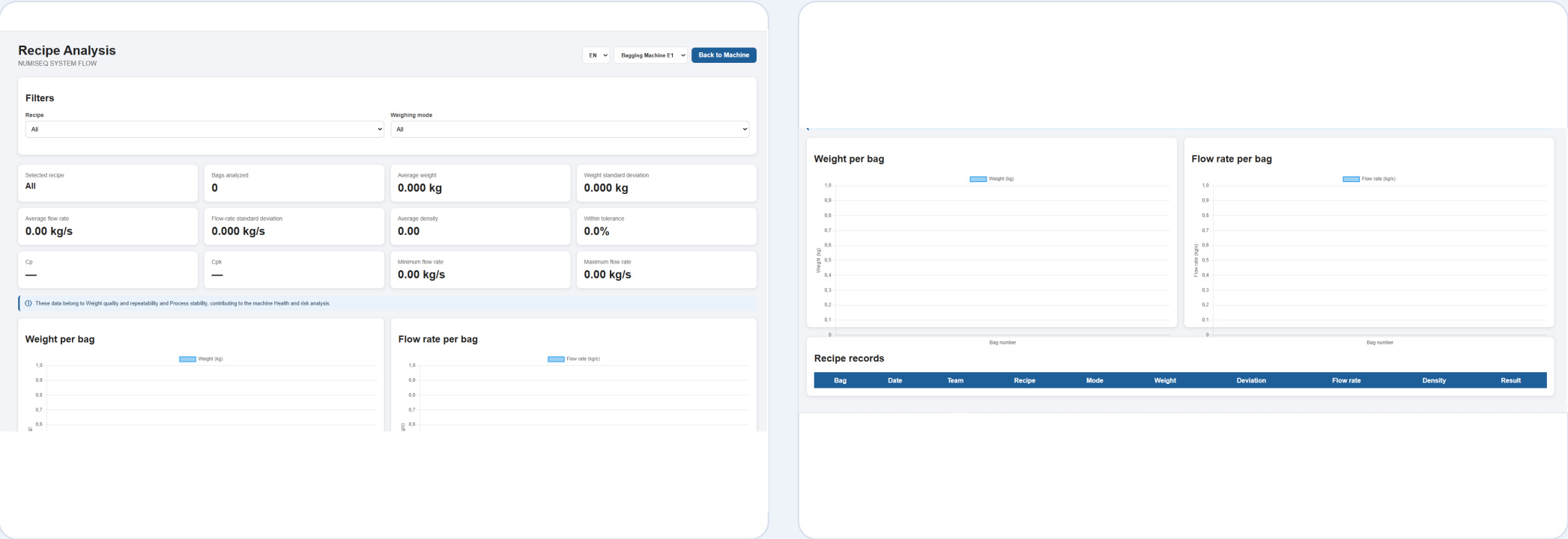
AI, COPILOT AND KNOWLEDGE

This section consolidates the operational indicators required to understand the industrial process.

OPERATIONAL VIEW AND TECHNICAL DECISION SUPPORT.

Recipe analysis and history

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Weight, flow and density correlation

Operational view and technical decision support.

Intelligent Analysis

Process correlations and comparison

EN

Back to Machine

Filters

Bagging machine

Bagging machine E1

Recipe

All

Weighing mode

All

Error retrieving data from E1: HTTP 500

Bags analysed

0

Weight × flow correlation

N/A

Density × flow correlation

N/A

Average flow

0.00 kg/s

Average weight

0.000 kg

Flow standard deviation

0.000 kg/s

Weight standard deviation

0.000 kg

Diagnosis

Initial sample

Weight × Flow

Point size indicates how many bags have coincident values.
● Within tolerance ● Outside tolerance ● Trend line

No valid points to display.

Density × Flow

Only bags with valid density and flow values are used.

Not enough points to calculate a relationship.

Weight over time

Chronological evolution of final weight with recipe limits.

Not enough records to display.

Flow over time

Chronological flow evolution to detect drift, oscillations and sudden changes.

Not enough records to display.

Automatic interpretation

There are only 0 bags with valid flow values. The indicators are preliminary and should not justify automatic parameter changes.

Weighing mode statistics

Mode	Bags	Average weight	Weight deviation	Average flow	Flow deviation	Quality
There are no valid records for comparing weighing modes with the selected filters.						

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

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AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

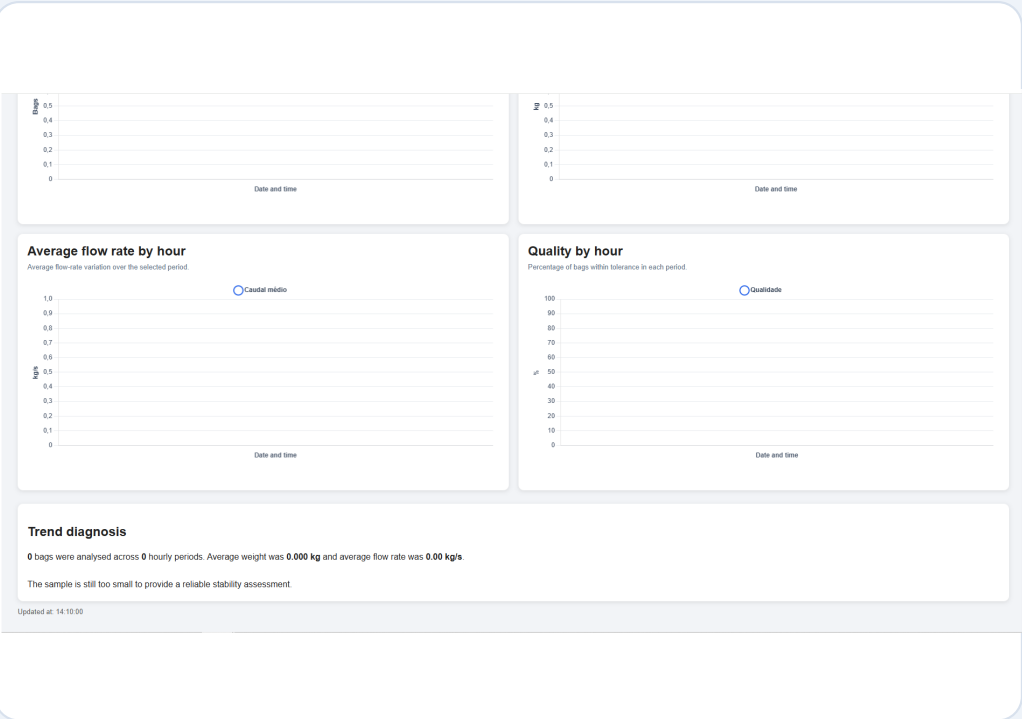
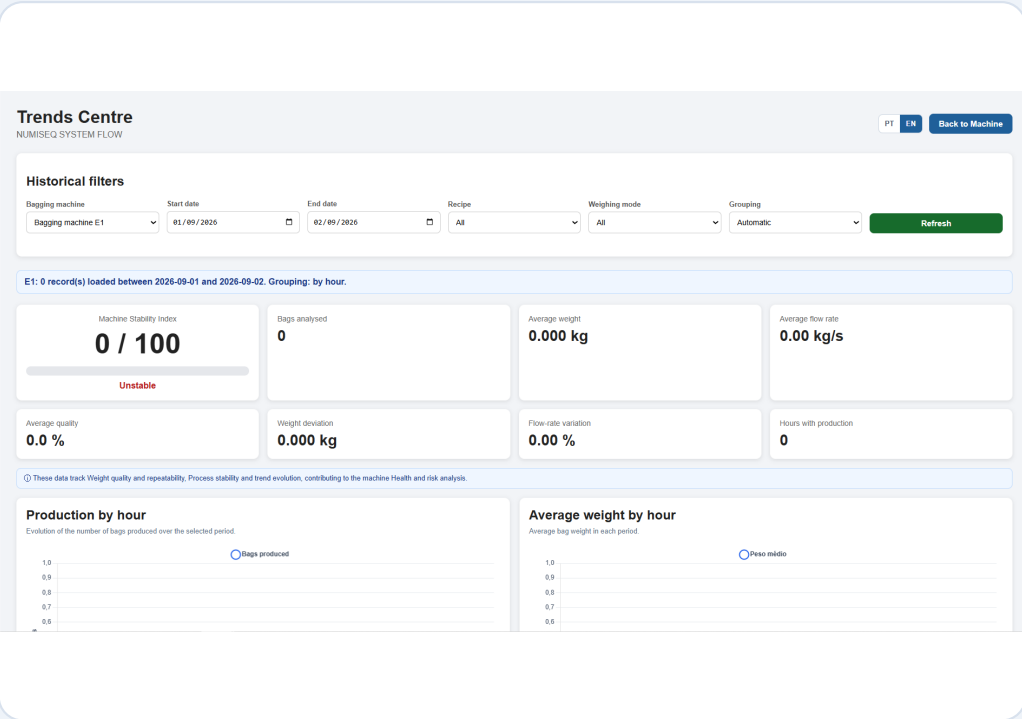
Operational view and technical decision support.

OPERATIONAL INTELLIGENCE

25

Trends and time-based diagnosis

Operational view and technical decision support.



OPERATIONAL VIEW AND TECHNICAL DECISION SUPPORT.

Process executive summary

Operational view and technical decision support.

NUMISEQ INSIGHT

Automatic process interpretation

ENBagger E1Back to Machine

Analysis period

Start date

26/08/2026

End date

02/09/2026

Recipe

All

Analyse

Overall process state

UNSTABLE PROCESS

28 / 100

Statistical confidence 15%. Provisional score due to small sample size.

Bags analysed

0

Quality

0.0 %

Weight stability

100.0 %

Flow stability

100.0 %

Average weight

0.000 kg

Average flow

0.00 kg/s

Best mode

-

Conventional: 0 bags, N/A pts - Progressive: 0 bags, N/A pts - minimum: 30 valid bags per mode

Analysed recipe

All

Automatic summary

0 bags were analysed in the for machine E1 scope. Quality was 0.0% (0 OK and 0 outside tolerance). Average weight was 0.000 kg, with weight stability of 100.0%. Average flow was 0.00 kg/s, with flow stability of 100.0%. Analysis confidence: 15%. Mode result: -.

Detected signals

- The sample contains 0 bags; statistical confidence is still limited.
- Quality is 0.0%, with 0 bag(s) outside tolerance.
- There are not enough samples from both modes to determine which is better.

Bags analysed

0

Quality

0.0 %

Weight stability

100.0 %

Flow stability

100.0 %

Average weight

0.000 kg

Average flow

0.00 kg/s

Best mode

-

Conventional: 0 bags, N/A pts - Progressive: 0 bags, N/A pts - minimum: 30 valid bags per mode

Analysed recipe

All

Automatic summary

0 bags were analysed in the for machine E1 scope. Quality was 0.0% (0 OK and 0 outside tolerance). Average weight was 0.000 kg, with weight stability of 100.0%. Average flow was 0.00 kg/s, with flow stability of 100.0%. Analysis confidence: 15%. Mode result: -.

Detected signals

- The sample contains 0 bags; statistical confidence is still limited.
- Quality is 0.0%, with 0 bag(s) outside tolerance.
- There are not enough samples from both modes to determine which is better.

Recommendations

Collect at least 30 bags from the same recipe and, for mode comparison, at least 10 bags in each mode.

Immediately analyse the bags outside tolerance and correlate them with states 7 and 9, flow and cut-off timing.

Updated at: 14:11:00

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

OPERATIONAL VIEW AND TECHNICAL DECISION SUPPORT.

Machine Digital Twin

Operational view and technical decision support.

Digital Twin
NUMISEQ SYSTEM FLOW

EN Back to Machine

COMMUNICATION ERROR Mode: CONVENTIONAL Recipe: - No alarm

Bagging Machine Representation



Current machine state
Loading...

Real-time data

Current weight 0.000 kg	Nominal weight 0.000 kg
Latest flow rate 0.00 kg/s	Density 0.00
Current speed 0 sacos/h	Target speed 0 sacos/h
Total bags 0	Alarm code 0

Cycle sequence

ST_INICIO

ST_AGUARDA_AT1

ST_AGUARDA_AT2

ST_AGUARDA_ESTAB_SACO



Current speed 0 sacos/h	Target speed 0 sacos/h
Total bags 0	Alarm code 0

Cycle sequence

ST_INICIO

ST_AGUARDA_AT1

ST_AGUARDA_AT2

ST_AGUARDA_ESTAB_SACO

ST_TARAGEM

ST_AGUARDA_AT3

ST_PRE_ENCHIMENTO

ST_ENCHIMENTO_GROSSO

ST_ESTAB_GROSSO

ST_ENCHIMENTO_FINO

ST_ESTAB_FINO

ST_FINAL_PESAGEM

ST_EXP_SACO

ST_AGUARDA_APLEXP

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

This section consolidates the operational indicators required to understand the industrial process.

Post-bagging flow

Operational view and technical decision support.

NUMISEQ

EXTERNAL PRODUCTION

Monitoring of equipment downstream from filling

Back to E1

Language: EN

Machine: E1

Post-bagging flow

Bag validation, pallet formation and film wrapping

01

Checkweigher

Independent weight confirmation and accept or reject result for each bag

Waiting for signal connection

Live bag weight

Maximum weight

Average weight

Minimum weight

Average deviation

Minimum deviation

Maximum deviation

Max. product length

Total rejected bags

Recipe name

Oversight rejected bags

Undersight rejected bags

Accepted bags

Unweighed bags

02

Palletizer

Bag counting, layer formation and completion of each pallet

Waiting for signal connection

Current bagshour

Bags in palletizer

Pallet layer count

Recipe name

Alarm code

Status

Not monitored

Pallets produced

Failure count

PLC communication

PLC / CPU model

Protocol / bus

Ex.: Siemens CPU 1214C DC/DC/DC

Connected through / connection point

E.g. Industrial switch, DP master, gateway or CP343-1

IP / hostname

Profibus / MPI address

192.168.0.10

Ex.: DP 12

Rack

Slot

0

1 / 2

PLC online

Not monitored

Data communication

Not monitored

Last communication: ---

Save configuration

03

Pallet wrapper

Film application and count of pallets ready for dispatch

Waiting for signal connection

Pallets produced

Failure count

Current cycle time

Average time per pallet

Alarm code

PLC communication

PLC / CPU model

Protocol / bus

Ex.: Siemens CPU 1214C DC/DC/DC

Connected through / connection point

E.g. Industrial switch, DP master, gateway or CP343-1

IP / hostname

Profibus / MPI address

192.168.0.10

Ex.: DP 12

Rack

Slot

0

1 / 2

PLC online

Not monitored

Data communication

Not monitored

Last communication: ---

Save configuration

Average deviation

Minimum deviation

Maximum deviation

Max. product length

Total rejected bags

Recipe name

Oversight rejected bags

Undersight rejected bags

Accepted bags

Unweighed bags

Alarm code

PLC communication

PLC / CPU model

Protocol / bus

Ex.: Siemens CPU 1214C DC/DC/DC

Connected through / connection point

E.g. Industrial switch, DP master, gateway or CP343-1

IP / hostname

Profibus / MPI address

192.168.0.10

Ex.: DP 12

Rack

Slot

0

1 / 2

PLC online

Not monitored

Data communication

Not monitored

Last communication: ---

Save configuration

Alarm code

Status

Not monitored

Failure count

PLC communication

PLC / CPU model

Protocol / bus

Ex.: Siemens CPU 1214C DC/DC/DC

Connected through / connection point

E.g. Industrial switch, DP master, gateway or CP343-1

IP / hostname

Profibus / MPI address

192.168.0.10

Ex.: DP 12

Rack

Slot

0

1 / 2

PLC online

Not monitored

Data communication

Not monitored

Last communication: ---

Save configuration

The configuration is stored per E1-E4 machine in this browser. Online and Communication status will be enabled when the backend is connected to each PLC; they are not simulated at this stage.

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

This section consolidates the operational indicators required to understand the industrial process.

AI, COPILOT AND KNOWLEDGE

This section consolidates the operational indicators required to understand the industrial process.

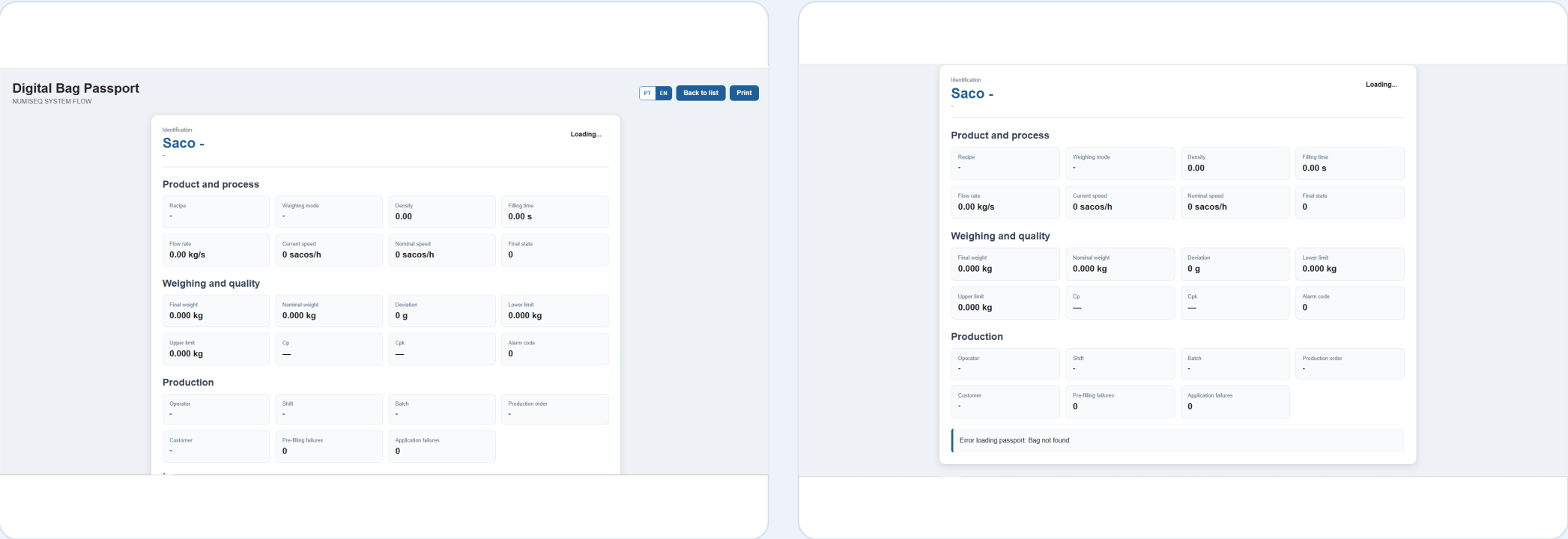
Operational view and technical decision support.

TRACEABILITY

29

Individual bag passport

Operational view and technical decision support.



Identification

Saco -

Loading...

Product and process

Recipe

-

Weighing mode

-

Density

0.00

Filling time

0.00 s

Flow rate

0.00 kg/s

Current speed

0 sacos/h

Nominal speed

0 sacos/h

Final state

0

Weighing and quality

Final weight

0.000 kg

Nominal weight

0.000 kg

Deviation

0 g

Lower limit

0.000 kg

Upper limit

0.000 kg

Cp

—

Cpk

—

Alarm code

0

Production

Operator

-

Shift

-

Batch

-

Production order

-

Customer

-

Pre-filling failures

0

Application failures

0

Error loading passport: Bag not found

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Bag search and archive

Operational view and technical decision support.

Digital Bag Passports

Technical history of each bag

PT

EN

Back to Machine

Filters

Recipe

All

Mode

All

Result

All

Search

Bag, date, recipe...

Produced bags

ID	Bag no.	Date	Time	Recipe	Mode	Weight	Deviation	Flow rate	Time	Result	Passport
No bags found.											

Updated at: 14:17:17

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

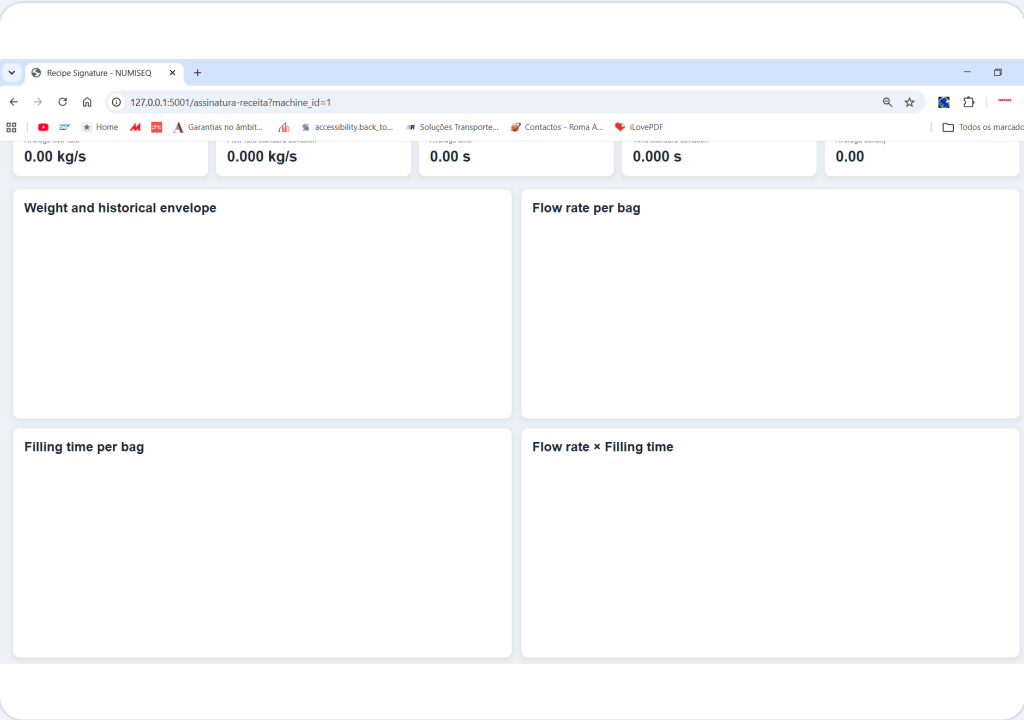
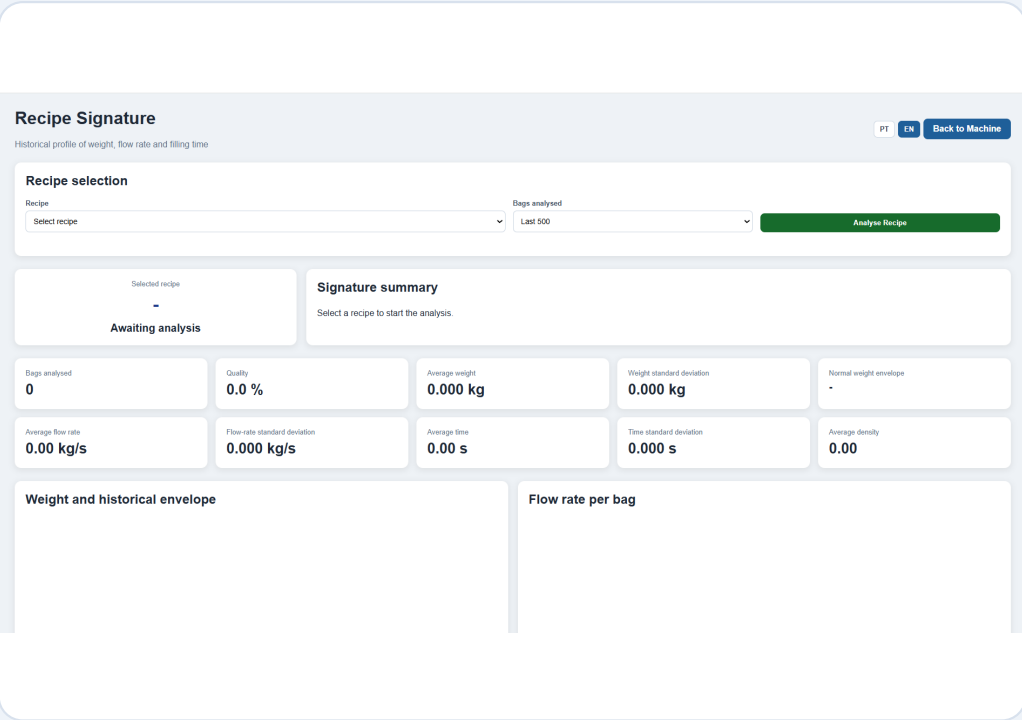
This section consolidates the operational indicators required to understand the industrial process.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Product operating signature

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Mode and record comparison

Operational view and technical decision support.

Conventional Mode

Bags

0

Quality

0.0 %

Average weight

0.000 kg

Average flow rate

0.00 kg/s

Average time

0.00 s

Progressive Mode

Bags

0

Quality

0.0 %

Average weight

0.000 kg

Average flow rate

0.00 kg/s

Average time

0.00 s

Automatic interpretation

Awaiting data...

Records used in the signature

ID	Bag	Date	Time	Mode	Weight	Flow rate	Time	Score IA	AI Signature
----	-----	------	------	------	--------	-----------	------	----------	--------------

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

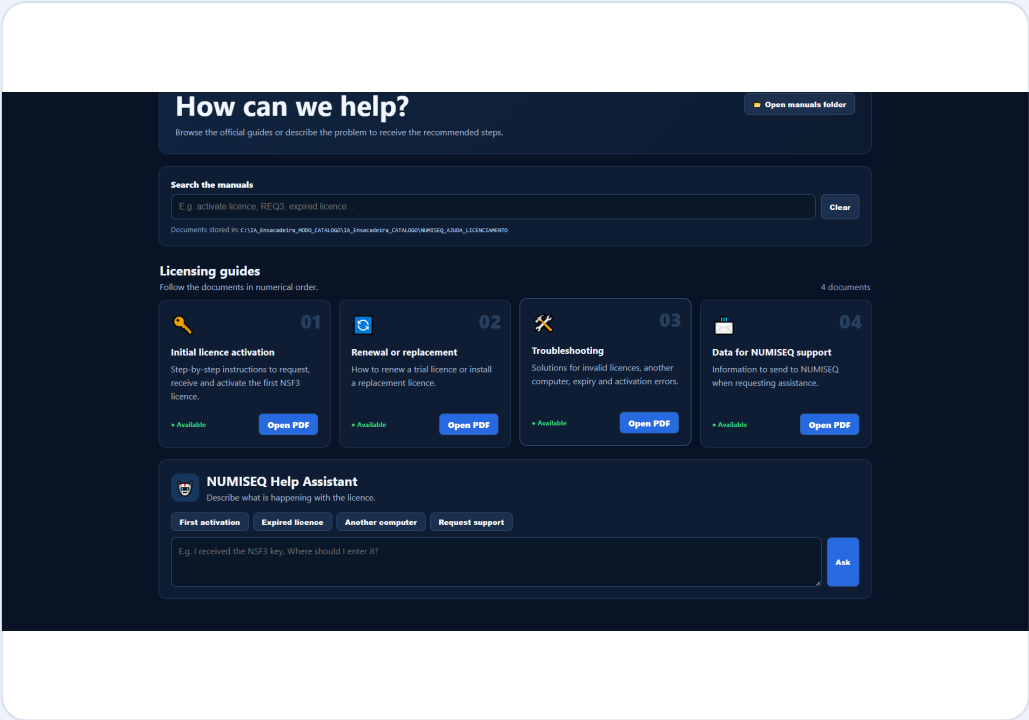
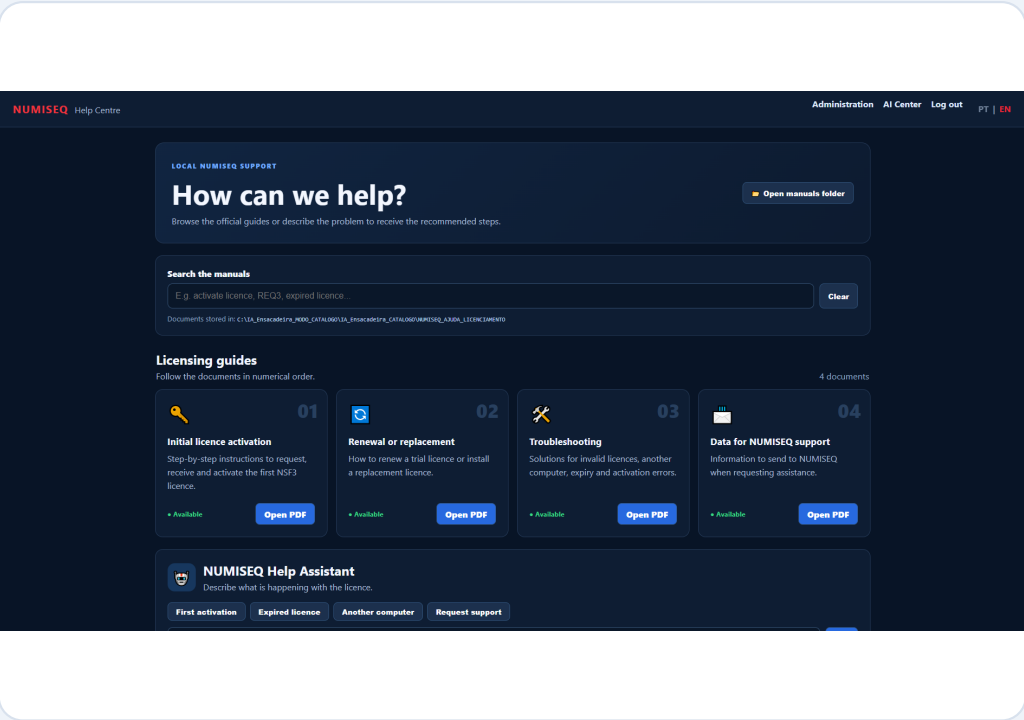
This section consolidates the operational indicators required to understand the industrial process.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Help center and manuals

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

This section consolidates the operational indicators required to understand the industrial process.

Contextual operator guide

Operational view and technical decision support.

NUMISEQ

CONTROLADOR SYSTEM FLOW

Production monitoring and analysis

PLC Checking

Mode: CONVENTIONAL

Recipe: -

Flow rate: 0.00 kg/s

Density: 0.00

Speed: 0 / 0 bags/h

Error retrieving data: HTTP 500

Rate Packers

Monitoring Wall

View Machine Cycle

Control Machine

Generate PDF Report

Quality

Production

Alarms

NUMISEQ Insight

Digital Twin

External Production

Bag Passports

Recipe Signature

AI Operations Centre

Bags in the last hour

0

Analysed production

0.000 t

Quality

0.0 %

Average time per state

0.00 s

Total bags

0

Latest weight

0.000 kg

Current alarm

No alarm

Weighing state

0

Pre-filling failures

0

Average of last 100

0.000 kg

Standard deviation

0.000 kg

Current recipe C/p

Within tolerance

0.0%

Outside tolerance

0.0%

Recipe upper limit

0.000 kg

Latest record

+

DP error

129

% dynamic correction

48

NUMISEQ

Operator Guide

Quick explanation of the indicators, modules and actions available in the system.

Search the guide

E.g.: quality, flow rate, recipes...

Overview

Modules

Indicators

How to interpret

NUMISEQ

What is this dashboard?

This is the main bagging-machine monitoring centre. It shows the PLC connection, active recipe, flow rate, quality, production, alarms and latest recorded bags.

What is it for?

- Confirm that the machine is connected and communicating.
- Monitor production, weight and quality in real time.
- Identify deviations, alarms and bags outside tolerance.
- Access detailed analysis and Artificial Intelligence modules.

Recommended operator workflow

- Confirmar que o indicador **PLC ONLINE** está verde.
- Check the recipe, weighing mode, flow rate and speed.
- Check quality and alarms.
- Use the detailed modules when a deviation occurs.
- Open the AI Operations Centre for diagnostics and recommendations.

Start guided tour

Repeat guided tour

Contextual help is available

Automatic report

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

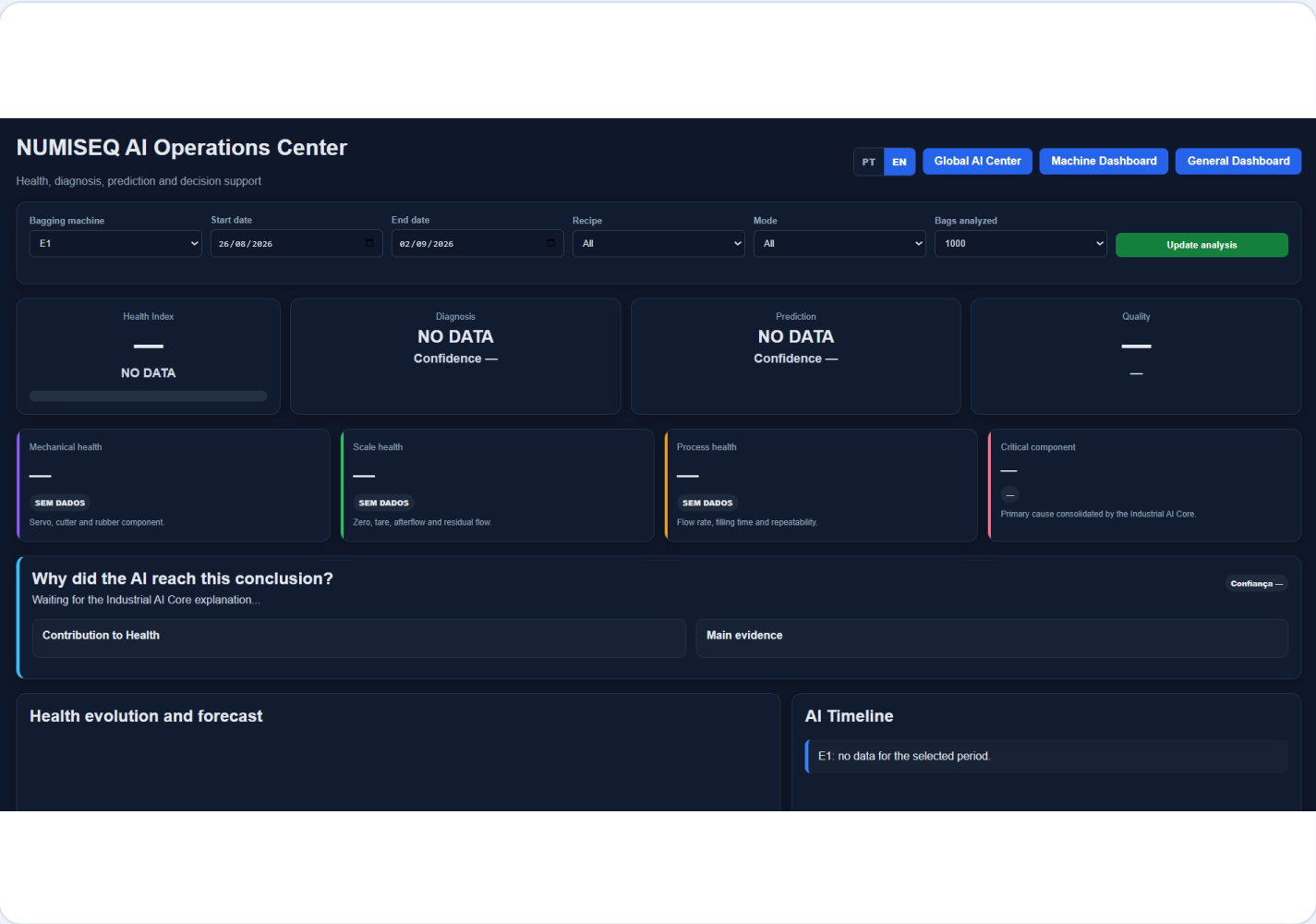
Operational view and technical decision support.

VALUE OF INTELLIGENCE

This section consolidates the operational indicators required to understand the industrial process.

Machine AI Operations Center

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

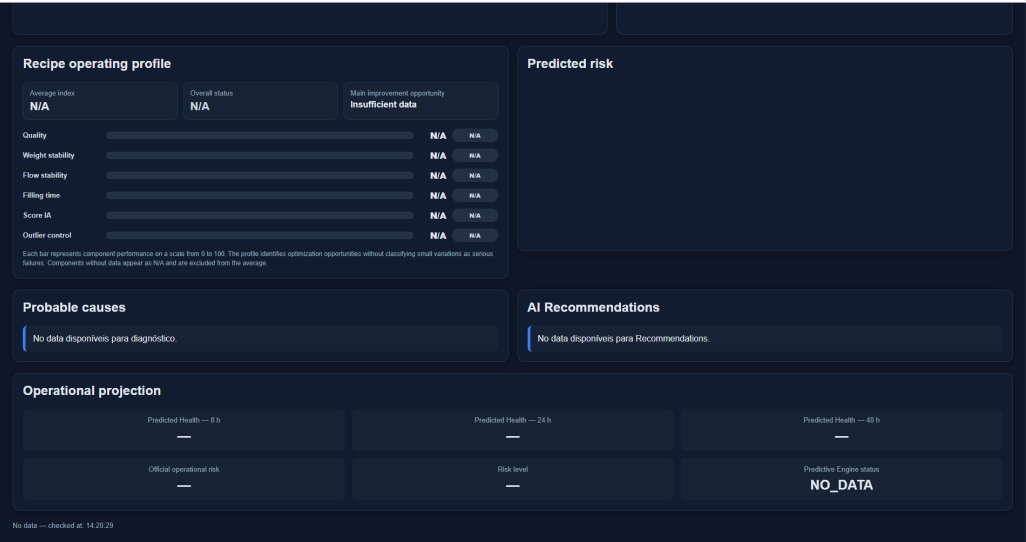
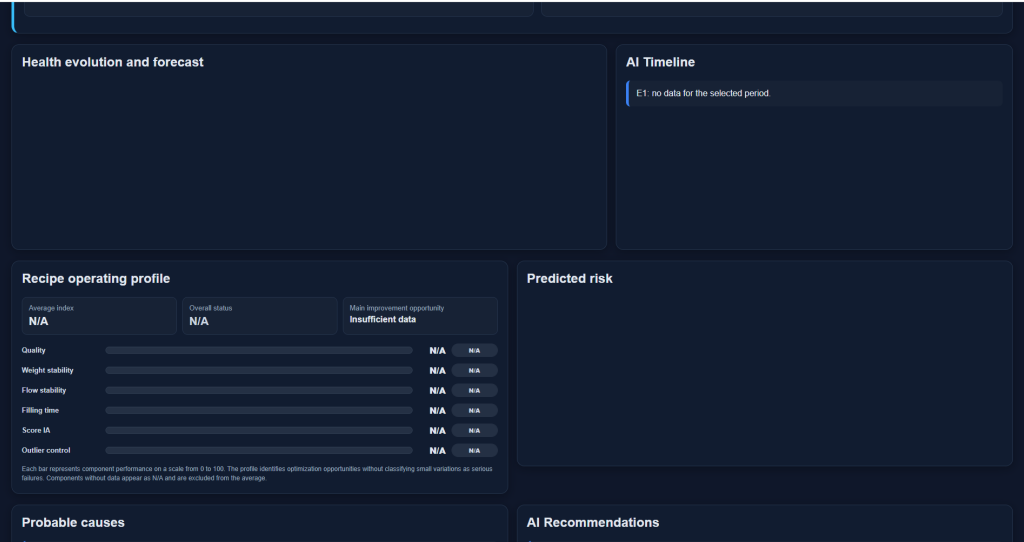
This section consolidates the operational indicators required to understand the industrial process.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Forecast, risk and recommendation

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

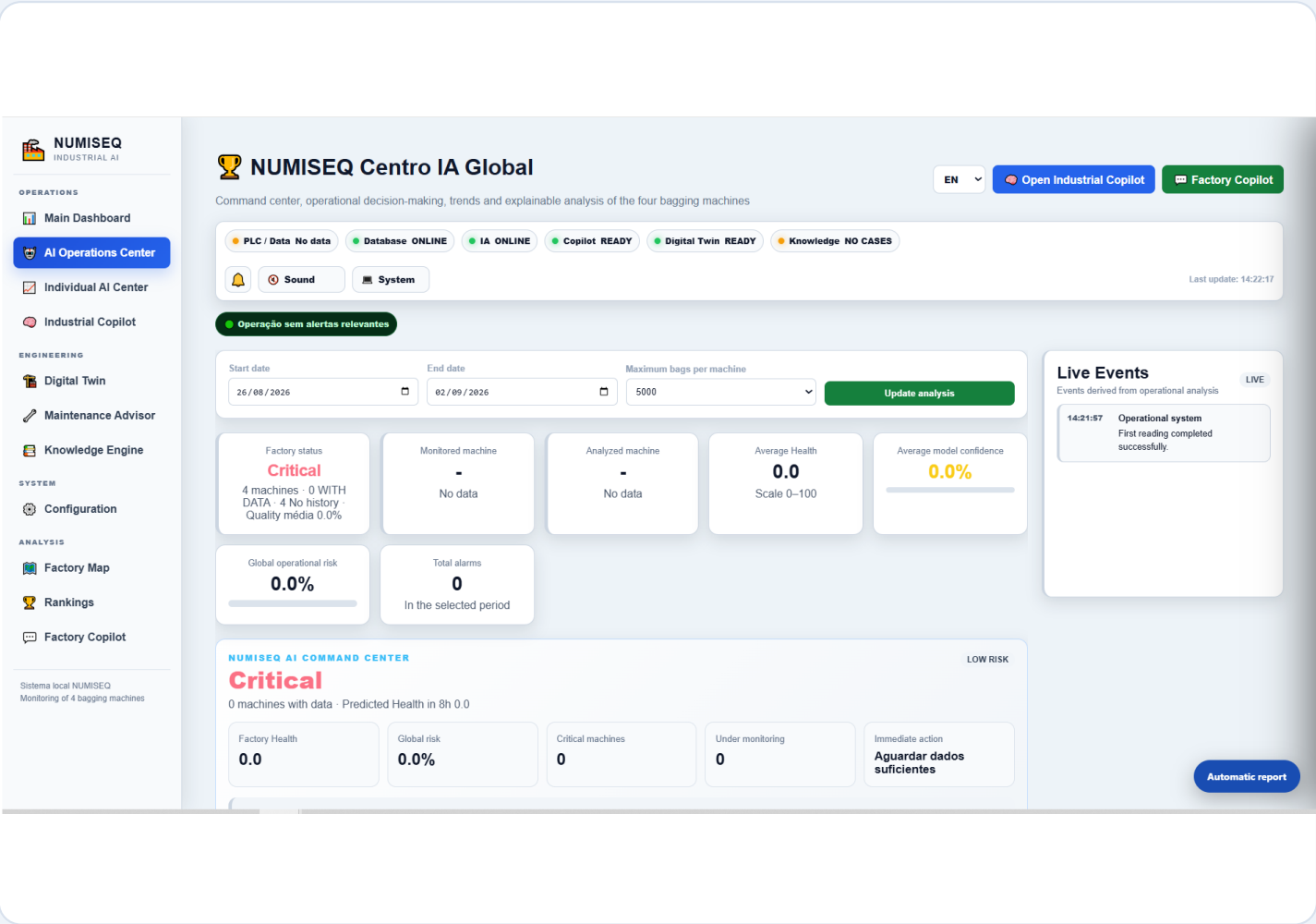
This section consolidates the operational indicators required to understand the industrial process.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Operational view and technical decision support.

Operational view and technical decision support.



PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

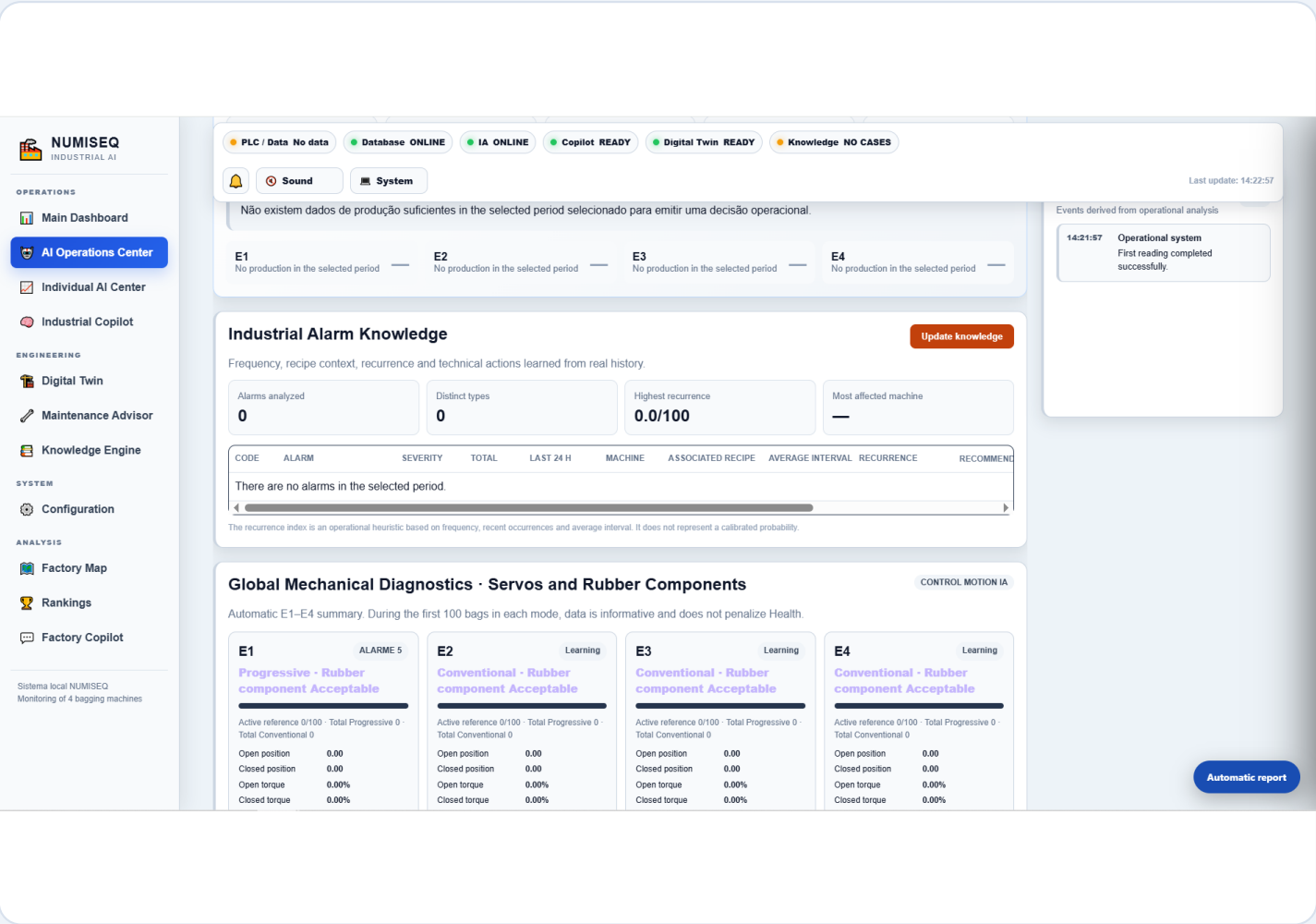
Operational view and technical decision support.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Operational view and technical decision support.

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

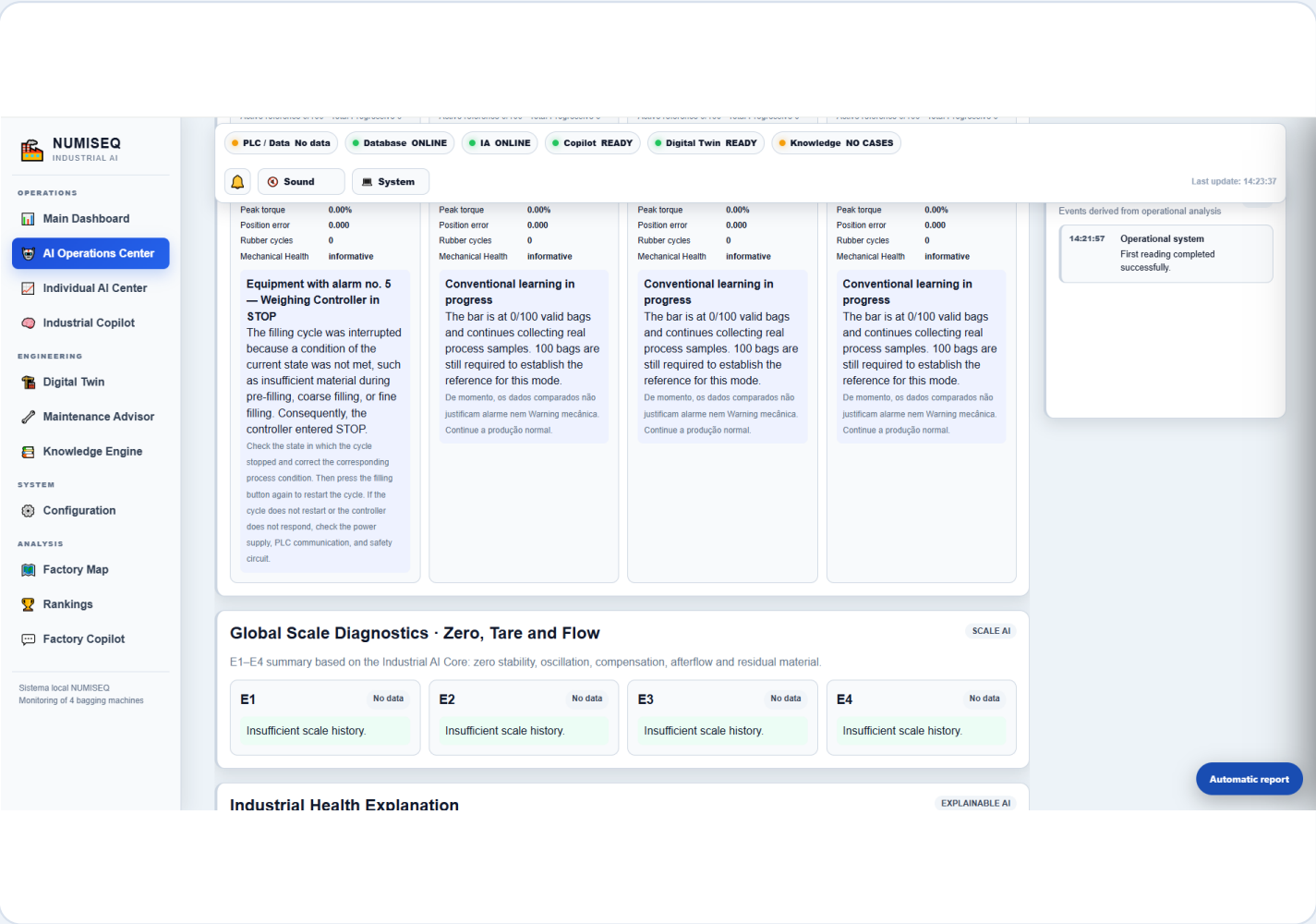
Operational view and technical decision support.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Operational view and technical decision support.

Operational view and technical decision support.



PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

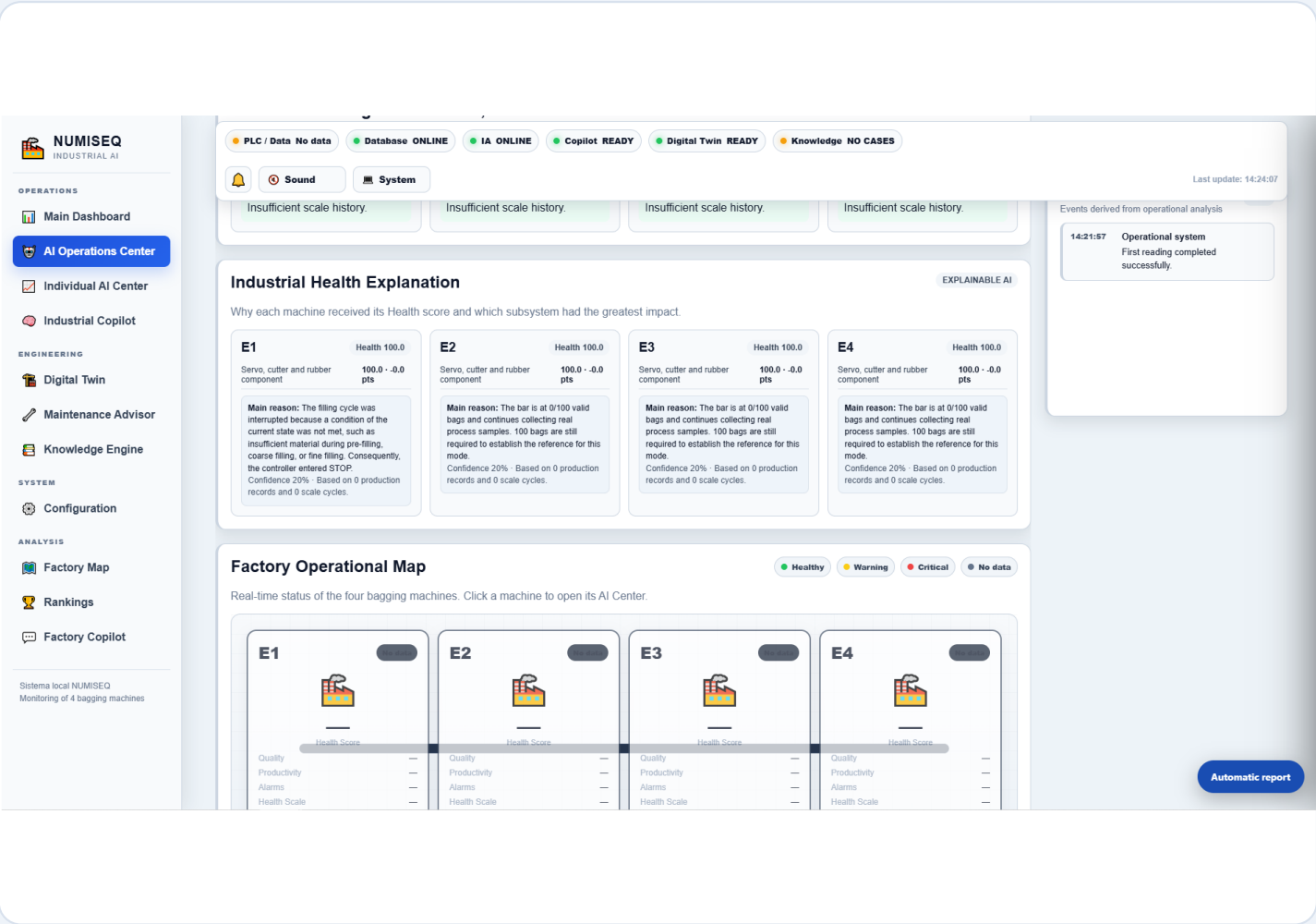
Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Operational view and technical decision support.

Operational view and technical decision support.



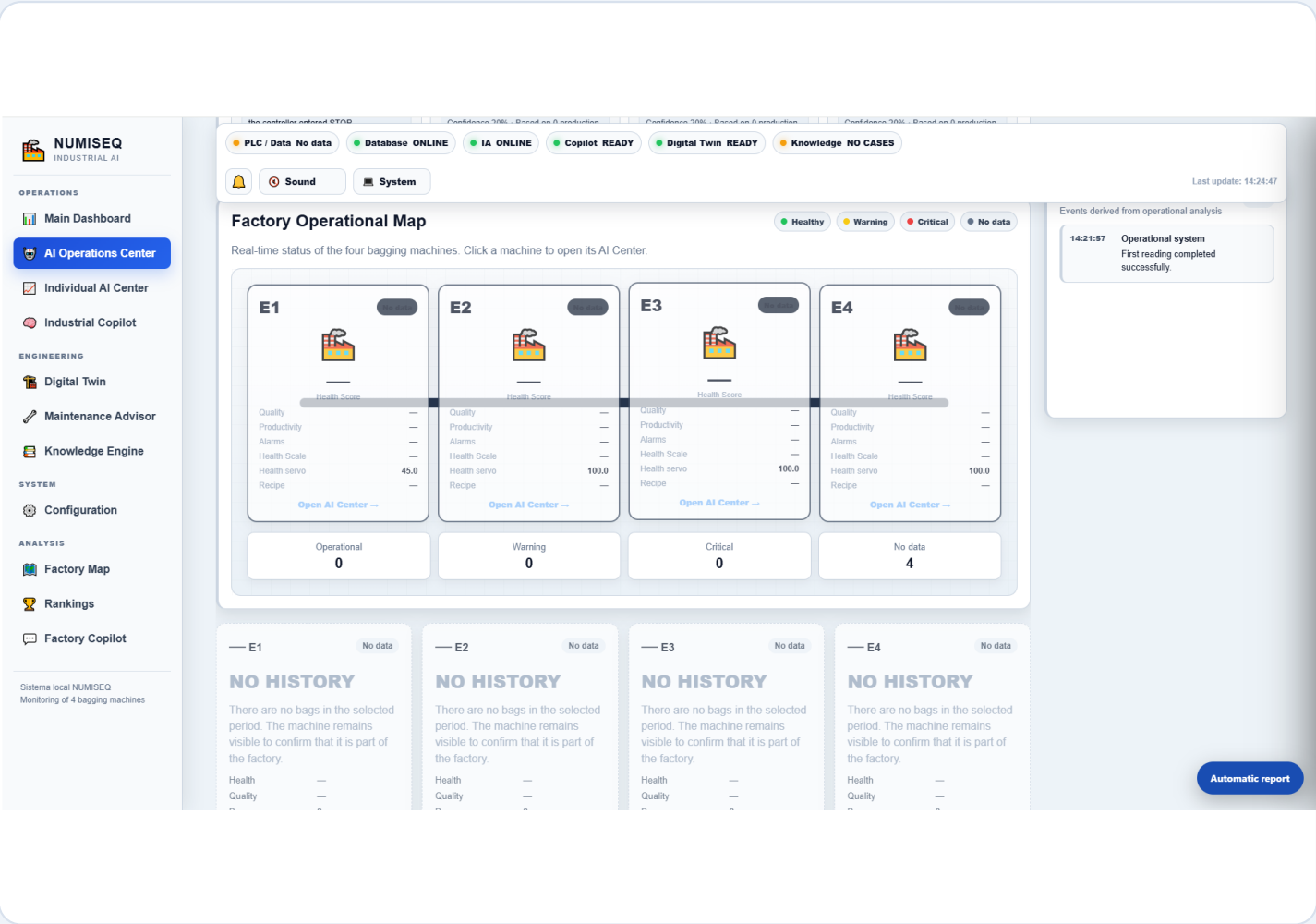
PURPOSE
This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET
Operational view and technical decision support.

VALUE OF INTELLIGENCE
Operational view and technical decision support.

Operational view and technical decision support.

Operational view and technical decision support.



PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

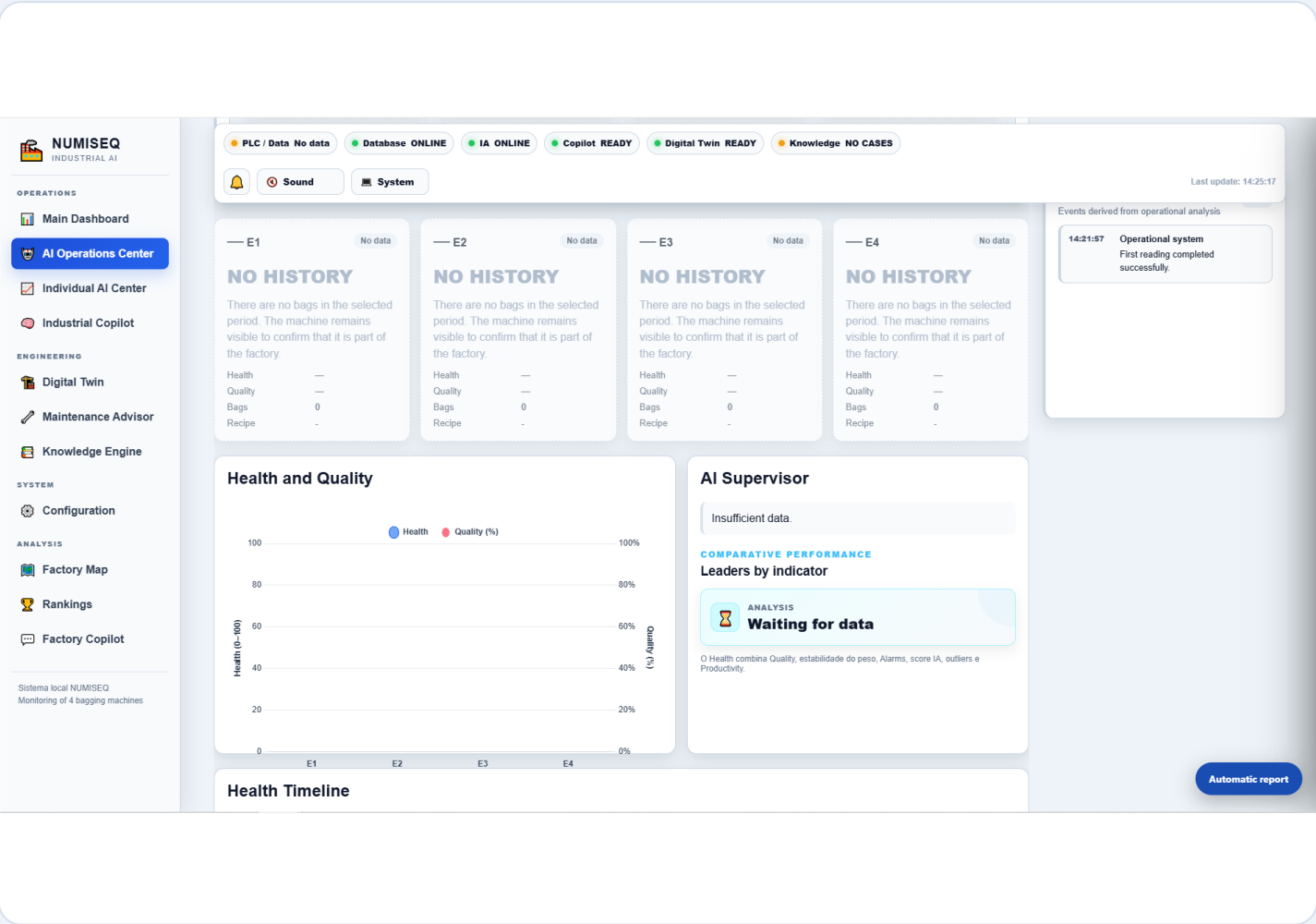
This section consolidates the operational indicators required to understand the industrial process.

VALUE OF INTELLIGENCE

This section consolidates the operational indicators required to understand the industrial process.

Factory Copilot

Operational view and technical decision support.



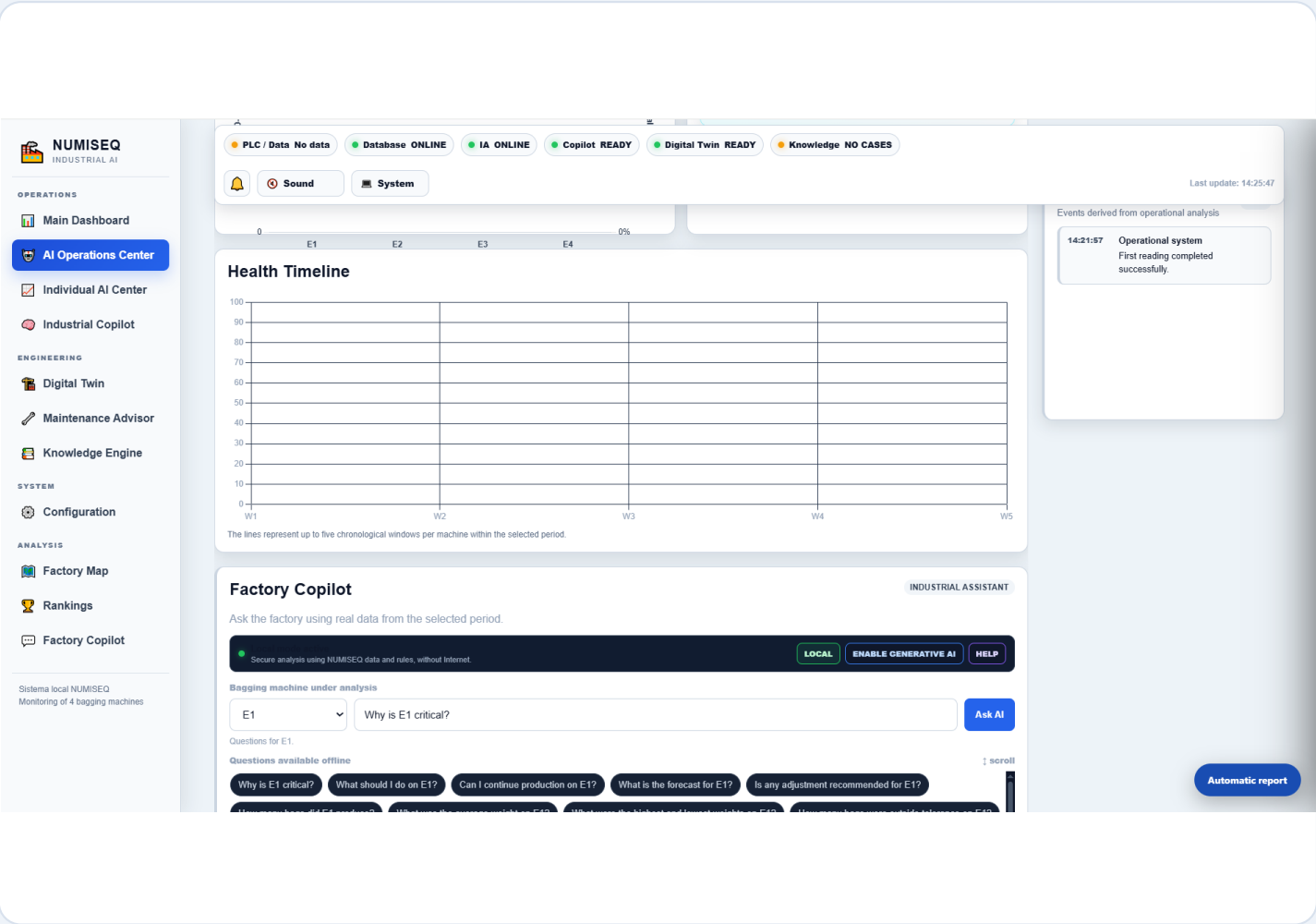
PURPOSE
Operational view and technical decision support.

HOW TO INTERPRET
Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

VALUE OF INTELLIGENCE
AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Factory Digital Twin

Operational view and technical decision support.



PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

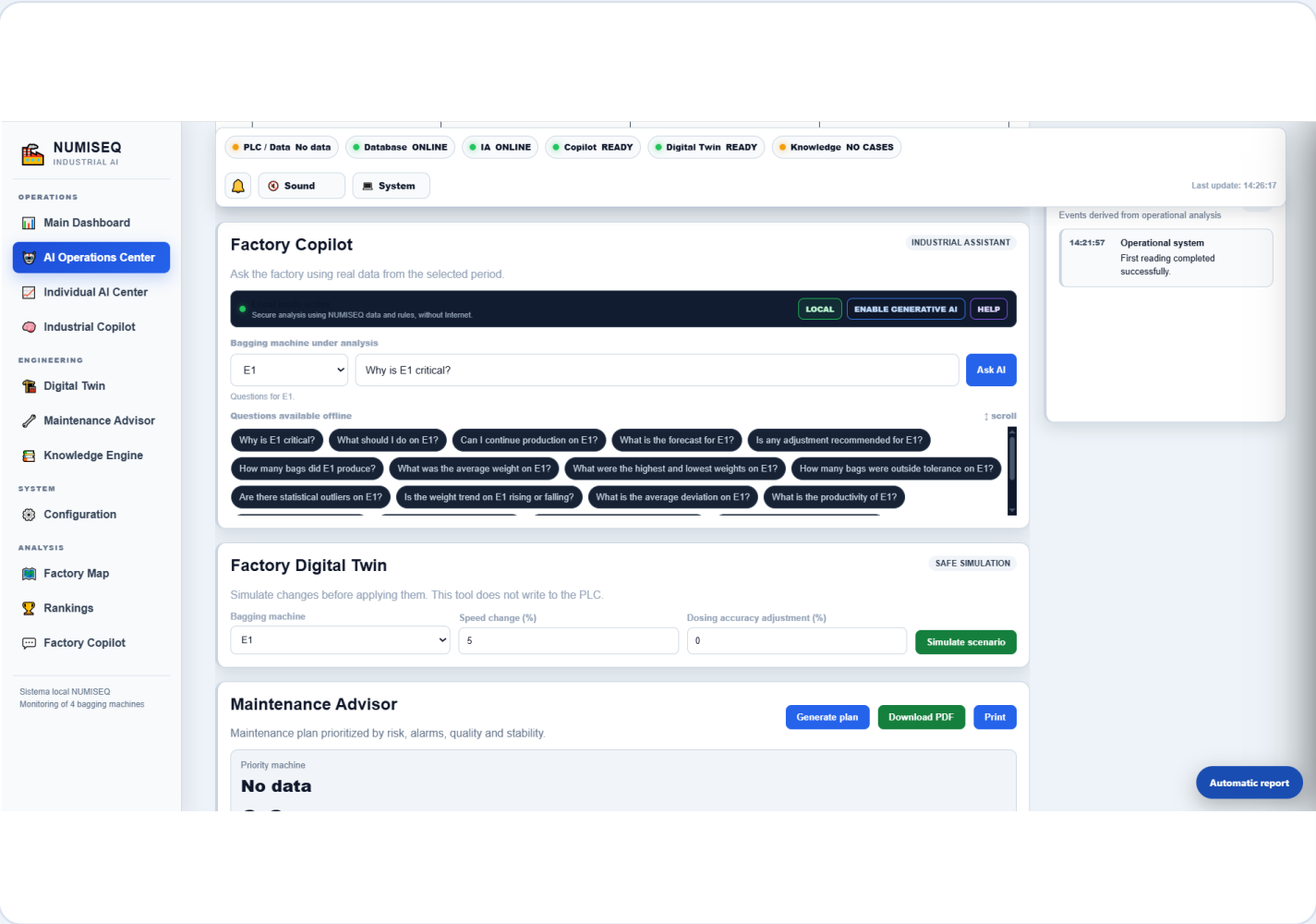
Operational view and technical decision support.

VALUE OF INTELLIGENCE

This section consolidates the operational indicators required to understand the industrial process.

Operational view and technical decision support.

Operational view and technical decision support.



PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

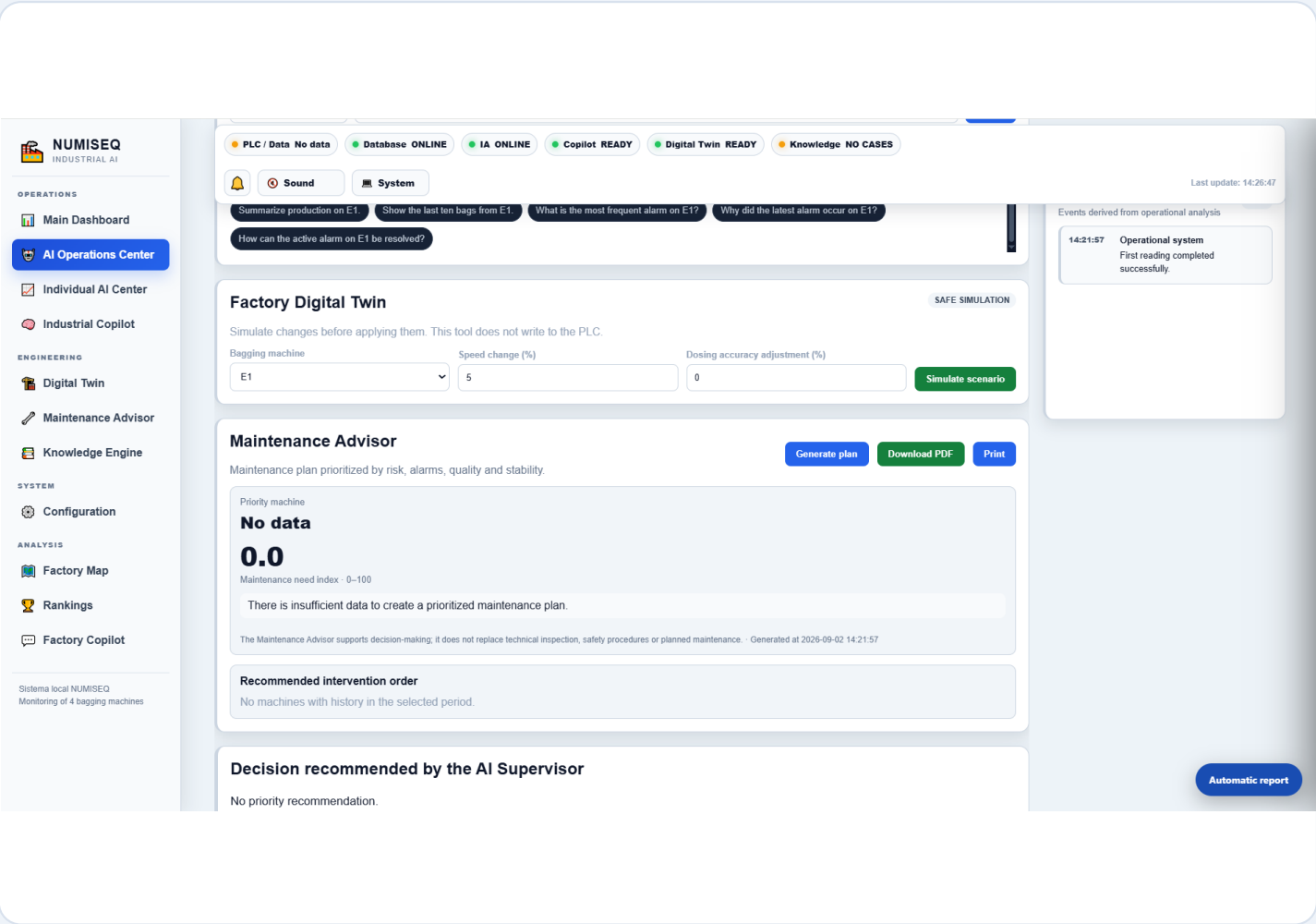
Operational view and technical decision support.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Operational view and technical decision support.

Operational view and technical decision support.



PURPOSE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

HOW TO INTERPRET

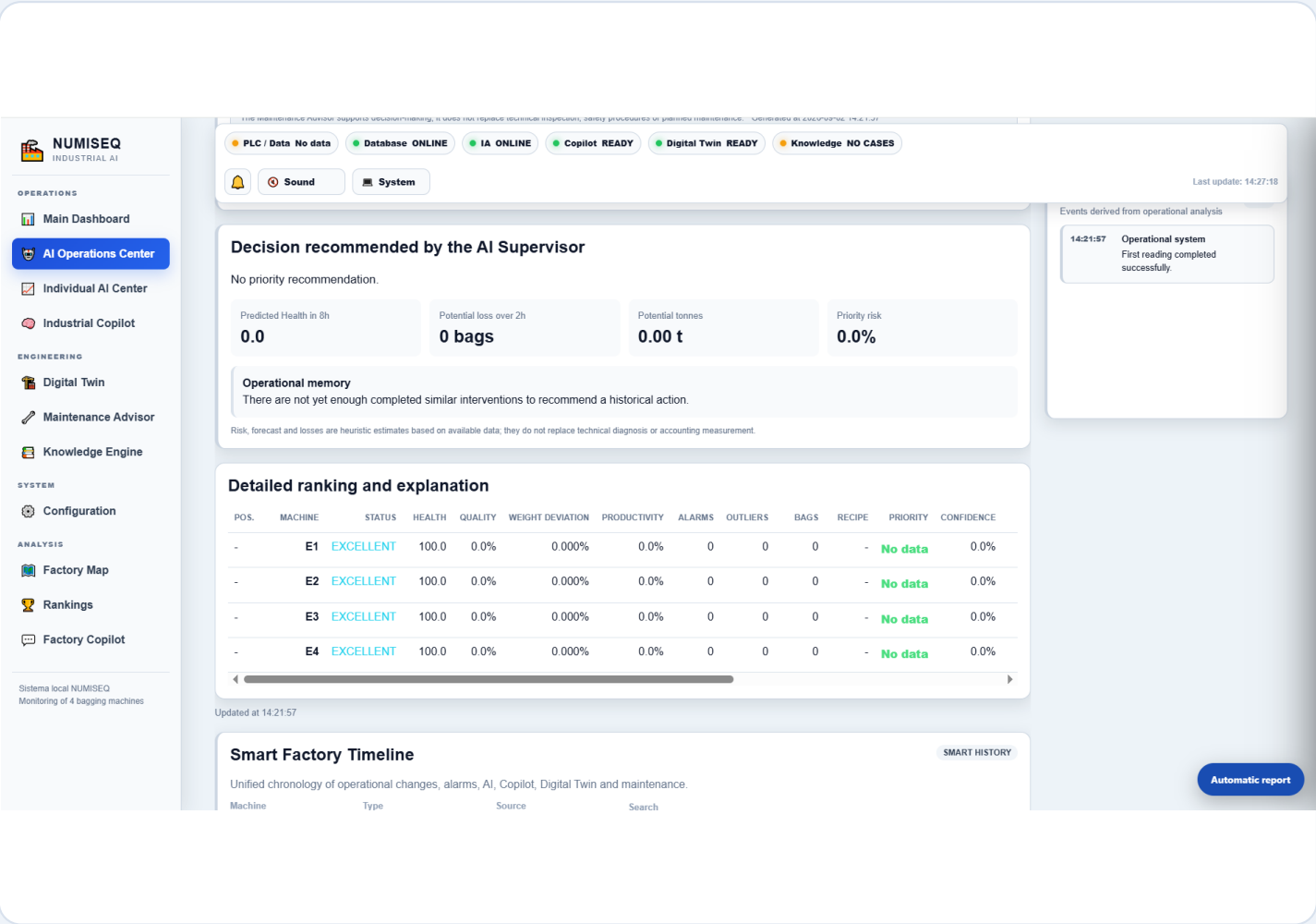
Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Operational view and technical decision support.

Operational view and technical decision support.



PURPOSE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

HOW TO INTERPRET

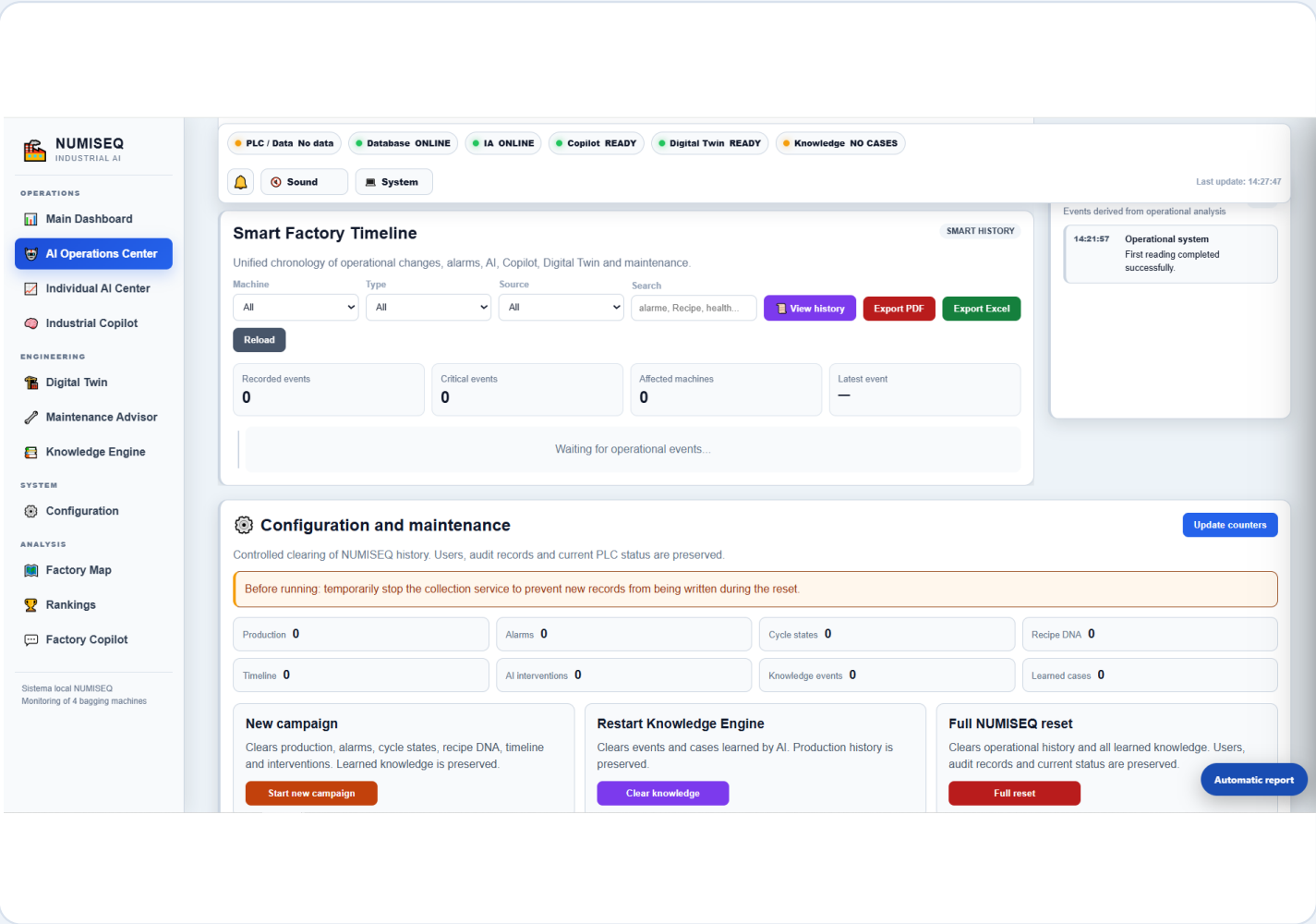
Operational view and technical decision support.

VALUE OF INTELLIGENCE

This section consolidates the operational indicators required to understand the industrial process.

Operational view and technical decision support.

Operational view and technical decision support.



PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

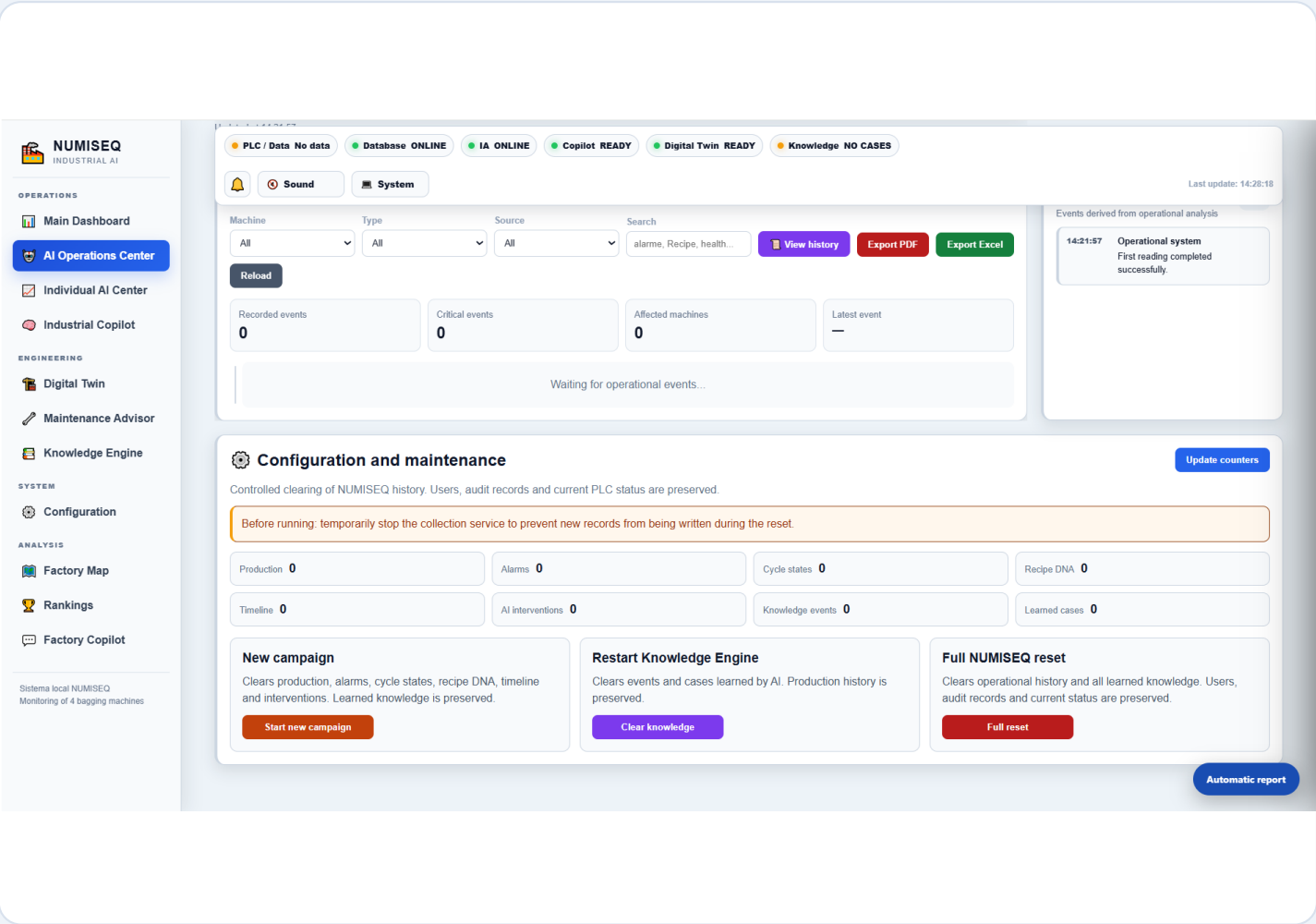
Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

VALUE OF INTELLIGENCE

Operational view and technical decision support.

Operational view and technical decision support.

Operational view and technical decision support.



PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

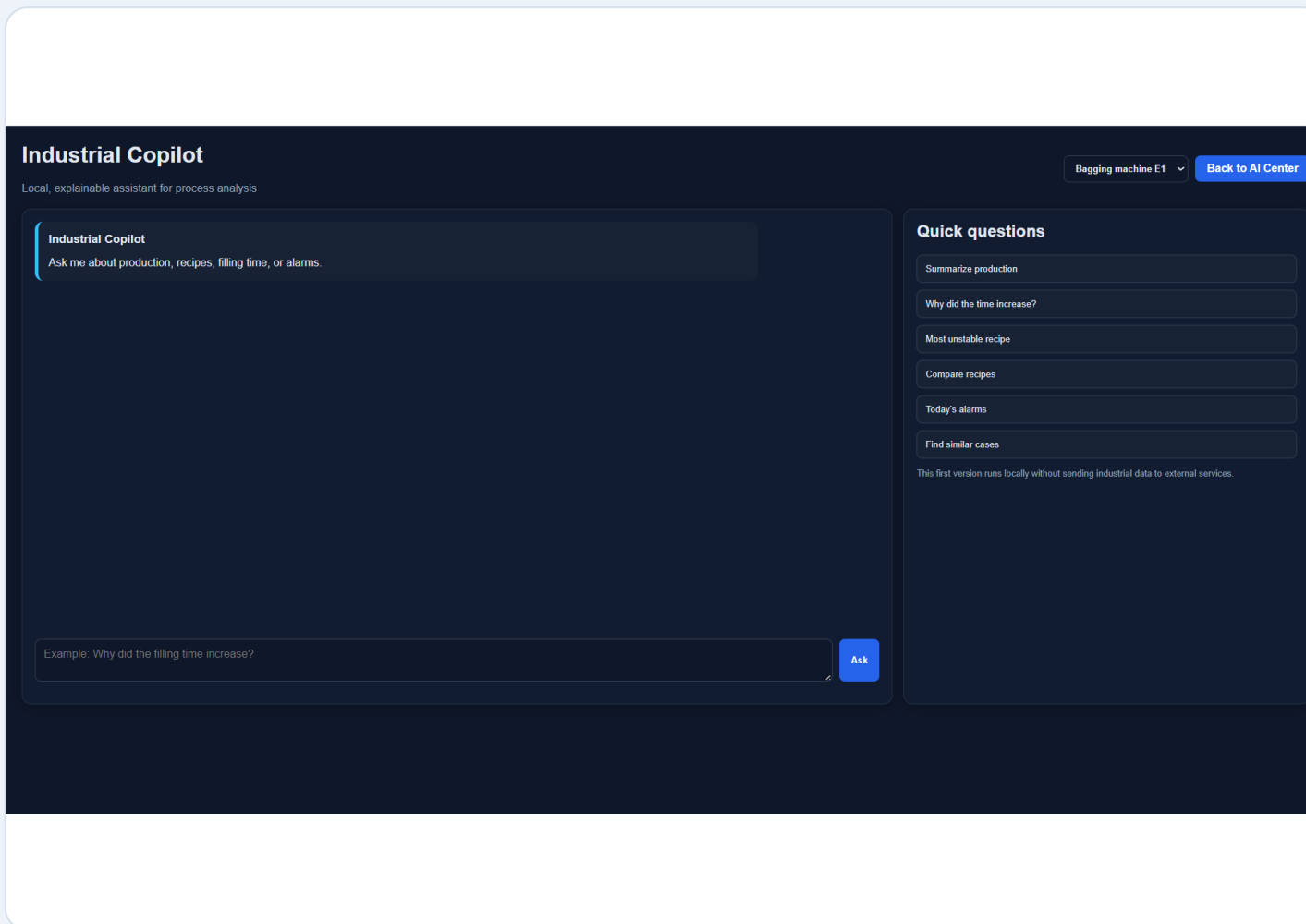
This section consolidates the operational indicators required to understand the industrial process.

VALUE OF INTELLIGENCE

This section consolidates the operational indicators required to understand the industrial process.

Operational view and technical decision support.

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

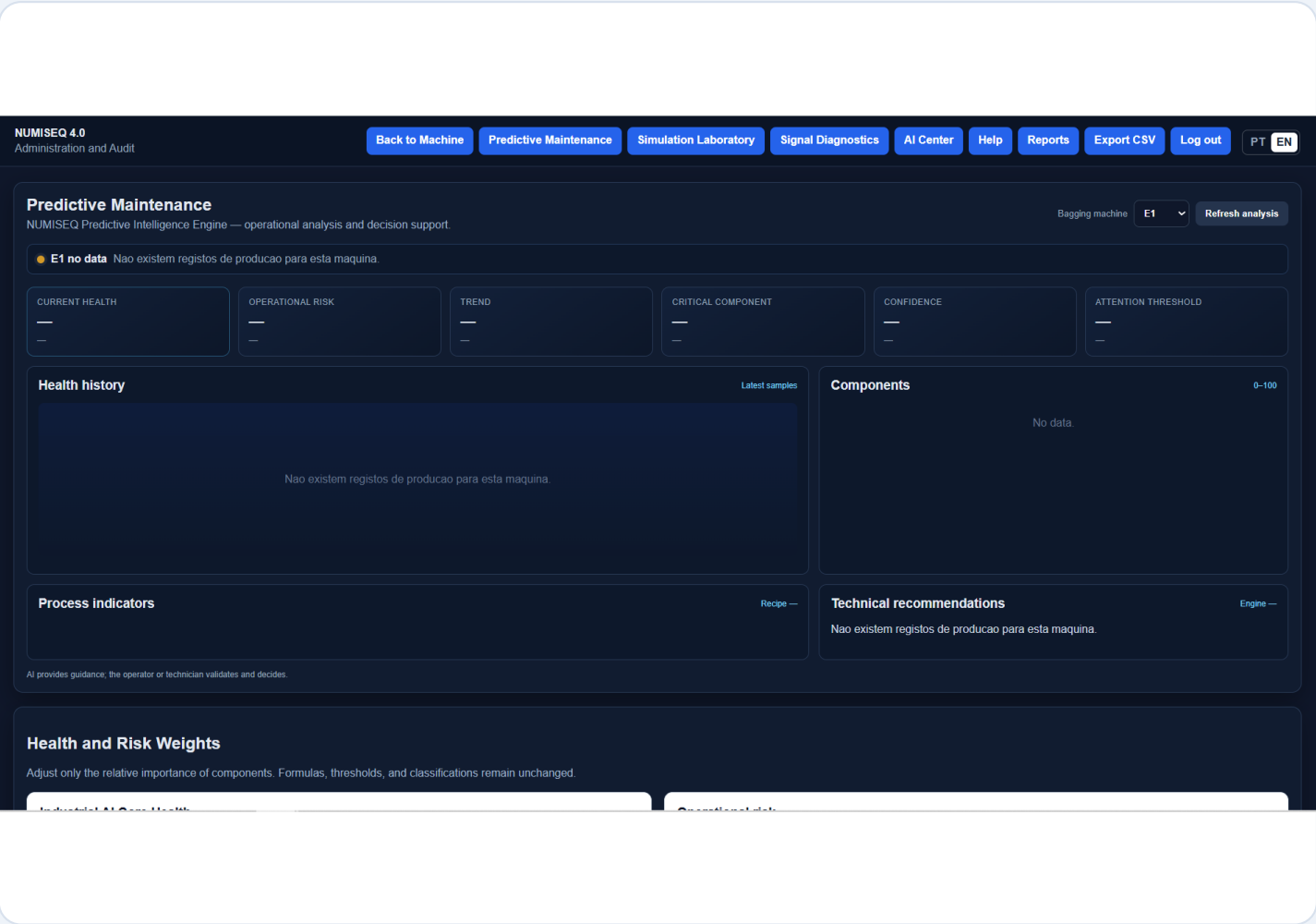
Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Operational view and technical decision support.

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

VALUE OF INTELLIGENCE

Operational view and technical decision support.

Operational view and technical decision support.

Operational view and technical decision support.

Health and Risk Weights

Adjust only the relative importance of components. Formulas, thresholds, and classifications remain unchanged.

Industrial AI Core Health

Importance of each component in the final Health.

Weight quality and repeatability

40

%

Scale, tare and residual flow

25

%

Process stability

20

%

Servo, cutter and rubber component

15

%

Total

100%

Operational risk

Importance of each factor in the risk index.

Current Health

28

%

Trend/degradation

22

%

Quality

15

%

Variability

12

%

Alarms

10

%

Statistical capability

7

%

Abnormal cycles

4

%

Open interventions

2

%

Total

100%

Save configuration

Restore factory defaults

? Weight configuration help

Factory defaults are active.

Each group must total exactly 100%. New weights apply to all machines and are recorded in the audit log.

Users and permissions

Name

Username

Password

OPERADOR

Create user

Name	Username	Role	Active	Last login	Actions
System Administrator	admin	ADMIN	Yes	2026-09-02T14:04:26	Disable New password

NUMISEQ Licensing

NUMISEQ - LICENSED

Refresh status

Export Report

Open Editor

PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

VALUE OF INTELLIGENCE

Operational view and technical decision support.

Operational view and technical decision support.

ADMINISTRATION

52

Operational view and technical decision support.

Operational view and technical decision support.

Users and permissions

Name

Username

Password

OPERADOR

Create user

Name	Username	Role	Active	Last login	Actions
System Administrator	admin	ADMIN	Yes	2026-09-02T14:04:26	Disable New password

NUMISEQ Licensing

NUMISEQ LICENSED ORIGINAL SOFTWARE

Refresh status

Export Report

Open Folder

Status of the offline licence associated with this computer.

Reports are automatically saved in C:\IA_Encadeira\Relatorios.

Trial licence

Expires on 02/10/2026 - 30 day(s) remaining

Status

ACTIVE

Valid licence

Type

TRIAL

30 day(s) remaining

Company

DEMONSTRATION COMPANY

Licensed

Validity

02/10/2026

Activated: 02/09/2026 12:16

Licence ID

NSF3-EDE359FB

Support identifier

Product

NUMISEQ SYSTEM FLOW

Licensed product

Version

V5.3.0

Hardware ID

0244-F1C2-6734-3564-44AE-C859

Copy

REQ3 activation request

REQ3-eyJ1bXB8yZXNh1Jo1REVNT85TVF3BVE1PT1B0T01QQ5ZI1w1aH5zdGFsYWVhbn19pZCI6IjA5NDQrRjJFM10Zn2M0LT...

Show full

Copy

PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Operational view and technical decision support.

Operational view and technical decision support.

Show fullCopy

Import new NSF3 licence

Paste the NSF3 key here...

Activate licence

Remove licence

Licence status updated.

Removing the licence requires a new activation. The installed key is never displayed or exported on this page.

Backup Centre

Create Backup NowRun MaintenanceRefresh status

Consistent SQLite database backups, integrity validation and automatic retention.

No valid backup Scheduler inactive Database available.

LATEST VALID BACKUP

Nunca

NEXT BACKUP

2026-09-03 00:05:00

Time remaining: 9 h 32 min

INTegrity

No data

BACKUPS

0

Manual 0 Automatic 0

SPACE USED

0 B

Retention: 30 days

LAST ERROR

None

Date	Type	File	Size	Integrity	Actions
No backups exist yet.					

The restore validates the selected backup, creates an emergency copy and confirms the integrity of the restored database.

Audit log

Refresh

PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

This section consolidates the operational indicators required to understand the industrial process.

VALUE OF INTELLIGENCE

This section consolidates the operational indicators required to understand the industrial process.

Operational view and technical decision support.

ADMINISTRATION

54

Operational view and technical decision support.

Operational view and technical decision support.

Backup Centre

Create Backup NowRun MaintenanceRefresh status

No valid backup Scheduler inactive Database available.

LATEST VALID BACKUP

Nunca

NEXT BACKUP

2026-09-03 00:05:00

Time remaining: 9 h 32 min

INTEGRITY

No data

BACKUPS

0

Manual 0 Automatic 0

SPACE USED

0 B

Retention: 30 days

LAST ERROR

None

Date	Type	File	Size	Integrity	Actions
No backups exist yet.					

The restore validates the selected backup, creates an emergency copy and confirms the integrity of the restored database.

Audit log

Refresh

Date	Username	Role	Action	Entity	Details	IP
2026-09-02T14:04:26	admin	ADMIN	LOGIN	utilizadores 1		127.0.0.1
2026-09-02T14:00:19	admin	ADMIN	LOGIN	utilizadores 1		127.0.0.1
2026-09-02T12:32:02	admin	ADMIN	LOGIN	utilizadores 1		127.0.0.1
2026-09-02T12:24:38	admin	ADMIN	LOGIN	utilizadores 1		127.0.0.1
2026-09-02T12:24:04	admin	ADMIN	LOGIN	utilizadores 1		127.0.0.1
2026-09-02T12:18:28	admin	ADMIN	LOGIN	utilizadores 1		127.0.0.1
2026-09-02T12:11:09	admin	ADMIN	CONFIGURACAO_INICIAL	sistema	Primeiro administrador criado; Empresa=DEMONSTRATION COMPANY; PLC=não definido; Idioma=en.	127.0.0.1

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Operational view and technical decision support.

VALUE OF INTELLIGENCE

This section consolidates the operational indicators required to understand the industrial process.

PLC signal diagnostics

Operational view and technical decision support.

NUMISEQ 4.0
S7 Siemens Signal Diagnostics

Back to AdministrationPT

Read-only mode

This page never forces bits or sends commands to the equipment.

S7 connection
Connected

Visible signals
670 / 670

Read failures
0

Last read
02/09/2026, 14:35:44

Diagnostic time
26 ms

Machine

Direction

DB

Status

Search tag, address or function

Refresh now

Todos / All

Todos / All

Todos / All

Todos / All

LastBagFillRateKgS, DB18.DB0350...

Programmed signals

Automatic refresh: 5

Status	Machine	Direction	Tag	Address	Type	Current value	Last change	Function
Changing	E1	S7 Siemens → Aplicação	AlarmCode	DB18.DB00	INT	5	02/09/2026, 14:35:44	Código de alarme atual
Changing	E2	S7 Siemens → Aplicação	AlarmCode	DB19.DB00	INT	0	02/09/2026, 14:35:44	Código de alarme atual
Changing	E3	S7 Siemens → Aplicação	AlarmCode	DB22.DB00	INT	0	02/09/2026, 14:35:44	Código de alarme atual
Changing	E4	S7 Siemens → Aplicação	AlarmCode	DB23.DB00	INT	0	02/09/2026, 14:35:44	Código de alarme atual
Changing	E1	S7 Siemens → Aplicação	ActualWeight	DB18.DB02	DINT	15129	02/09/2026, 14:35:44	Peso atual
Changing	E2	S7 Siemens → Aplicação	ActualWeight	DB19.DB02	DINT	0	02/09/2026, 14:35:44	Peso atual
Changing	E3	S7 Siemens → Aplicação	ActualWeight	DB22.DB02	DINT	0	02/09/2026, 14:35:44	Peso atual
Changing	E4	S7 Siemens → Aplicação	ActualWeight	DB23.DB02	DINT	0	02/09/2026, 14:35:44	Peso atual
Changing	E1	S7 Siemens → Aplicação	NominalWeight	DB18.DB06	DINT	15000	02/09/2026, 14:35:44	Peso nominal
Changing	E2	S7 Siemens → Aplicação	NominalWeight	DB19.DB06	DINT	0	02/09/2026, 14:35:44	Peso nominal
Changing	E3	S7 Siemens → Aplicação	NominalWeight	DB22.DB06	DINT	0	02/09/2026, 14:35:44	Peso nominal
Changing	E4	S7 Siemens → Aplicação	NominalWeight	DB23.DB06	DINT	0	02/09/2026, 14:35:44	Peso nominal
Changing	E1	S7 Siemens → Aplicação	TotalBags	DB18.DB010	DINT	152	02/09/2026, 14:35:44	Total de sacos
Changing	E2	S7 Siemens → Aplicação	TotalBags	DB19.DB010	DINT	0	02/09/2026, 14:35:44	Total de sacos
Changing	E3	S7 Siemens → Aplicação	TotalBags	DB22.DB010	DINT	0	02/09/2026, 14:35:44	Total de sacos
Changing	E4	S7 Siemens → Aplicação	TotalBags	DB23.DB010	DINT	0	02/09/2026, 14:35:44	Total de sacos

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Controlled simulation mode

Operational view and technical decision support.

NUMISEQ 4.0Simulation LaboratoryMachineManagement

⚠ SIMULATION MODE — ADMIN only. Scenarios are identified and can be eliminated without deleting real production.

1. Excel Template

Upload the empty structure, fill it with up to 20,000 bags, and import it.

Download empty Excel file

2. Excel with scenario

Generate realistic data, download it, and change whatever you want.

Machine

E2

Amount

4000

Scenario

Healthy machine

Interval(s)

8

Nominal weight (kg)

20

Start

02/09/2026 04:48

Generate and download Excel

3. Import and validate

Nothing is saved at this stage. The system validates the Excel file and displays a preview.

Scenario ID

SIM-CLIENT-TEST-01

.xlsx file

Escother ficheiroNonhum ficheiro selecionado

Validate and preview

Confirm and insert simulation

Download empty Excel file

Machine

E2

Amount

4000

Scenario

Healthy machine

Interval(s)

8

Nominal weight (kg)

20

Start

02/09/2026 04:48

Generate and download Excel

3. Import and validate

Nothing is saved at this stage. The system validates the Excel file and displays a preview.

Scenario ID

SIM-CLIENT-TEST-01

.xlsx file

Escother ficheiroNonhum ficheiro selecionado

Validate and preview

Confirm and insert simulation

Existing simulated scenarios

The current pages analyze these bags as production data for as long as they exist. Delete them before delivering the empty program to the client.

Update list

There are no simulated scenarios yet.

PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

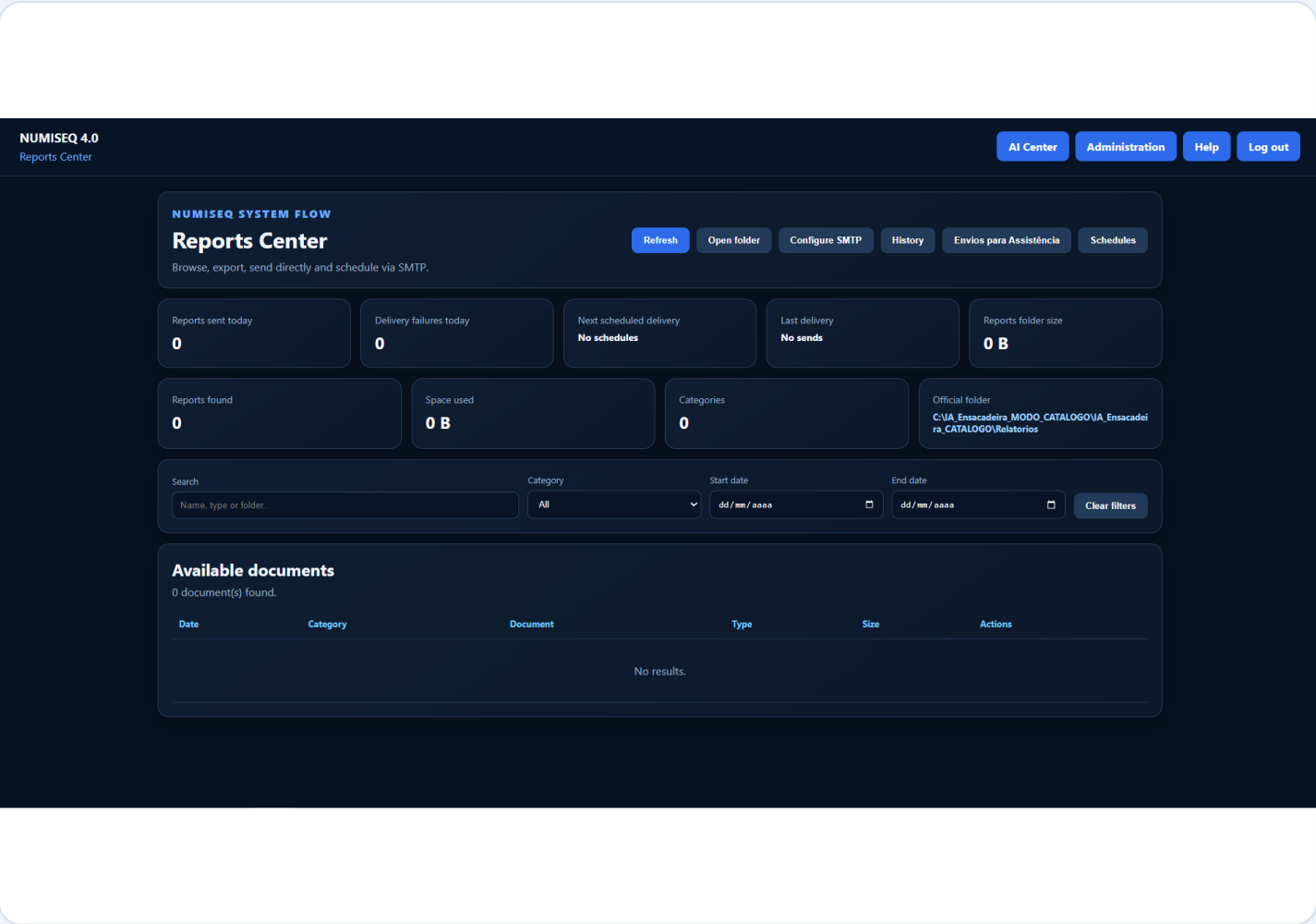
Operational view and technical decision support.

ADMINISTRATION

57

Reports Center

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

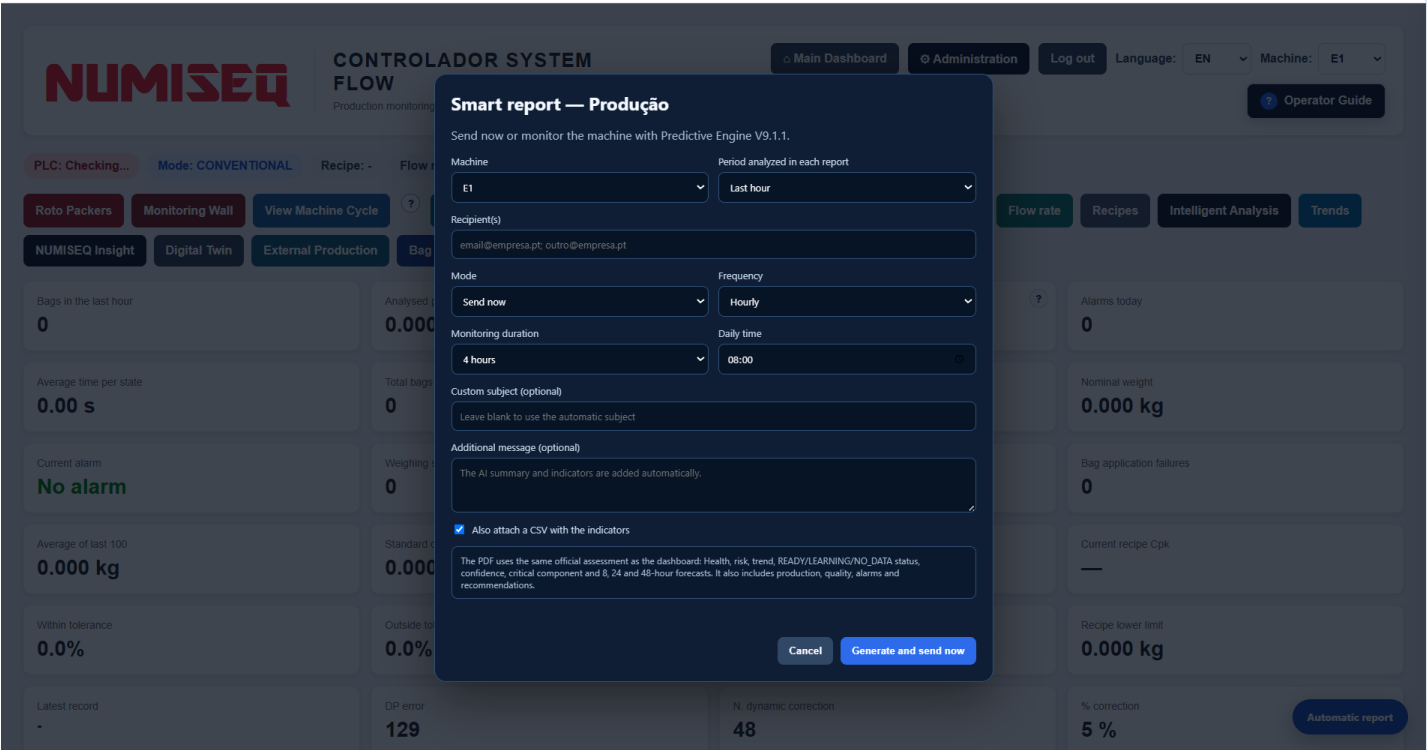
VALUE OF INTELLIGENCE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

OPERATIONAL VIEW AND TECHNICAL DECISION SUPPORT.

Smart report from the main dashboard

Operational view and technical decision support.



PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

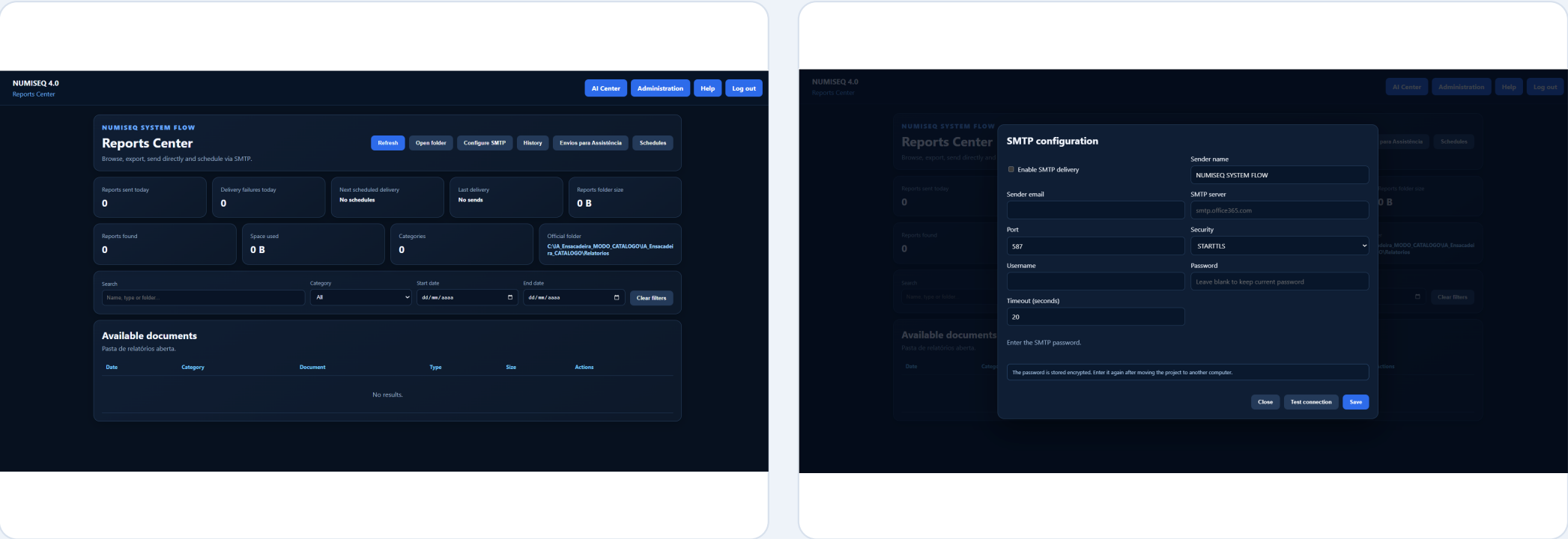
VALUE OF INTELLIGENCE

This section consolidates the operational indicators required to understand the industrial process.

OPERATIONAL VIEW AND TECHNICAL DECISION SUPPORT.

Automatic reports and SMTP

Operational view and technical decision support.



PURPOSE

Operational view and technical decision support.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

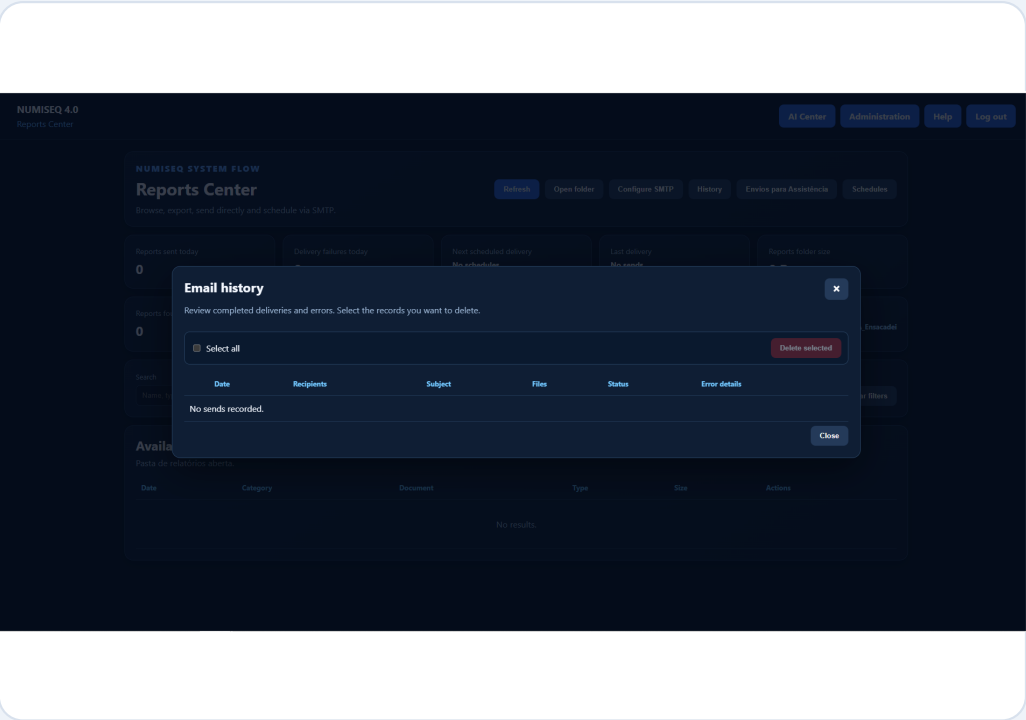
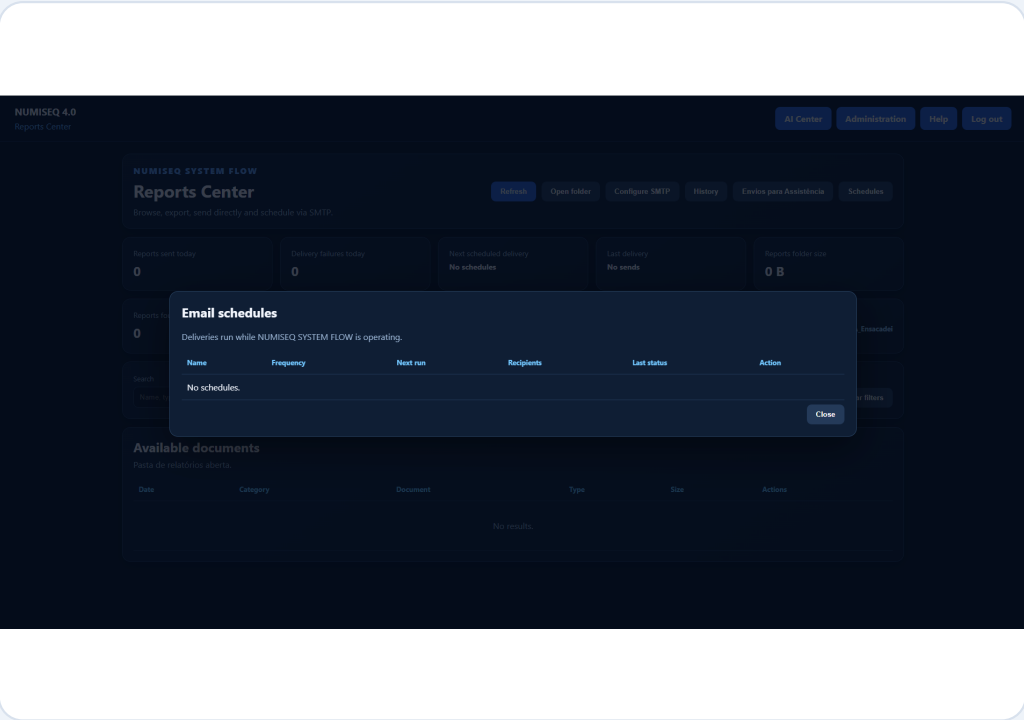
AI, COPILOT AND KNOWLEDGE

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

OPERATIONAL VIEW AND TECHNICAL DECISION SUPPORT.

Schedules and delivery history

Operational view and technical decision support.



PURPOSE

This section consolidates the operational indicators required to understand the industrial process.

HOW TO INTERPRET

Use the displayed values, charts and history to compare actual behavior with the expected operating reference.

AI, COPILOT AND KNOWLEDGE

This section consolidates the operational indicators required to understand the industrial process.

CONCLUSION

Data transformed into decisions

This section consolidates the operational indicators required to understand the industrial process.

Operational view and technical decision support.

Operational view and technical decision support.

Operational view and technical decision support.

Operational view and technical decision support.

Operational view and technical decision support.

AI, Copilot and the Knowledge Engine correlate evidence, explain probable causes and support a validated human decision.

Operational view and technical decision support.

Operational view and technical decision support.

Operational view and technical decision support.