

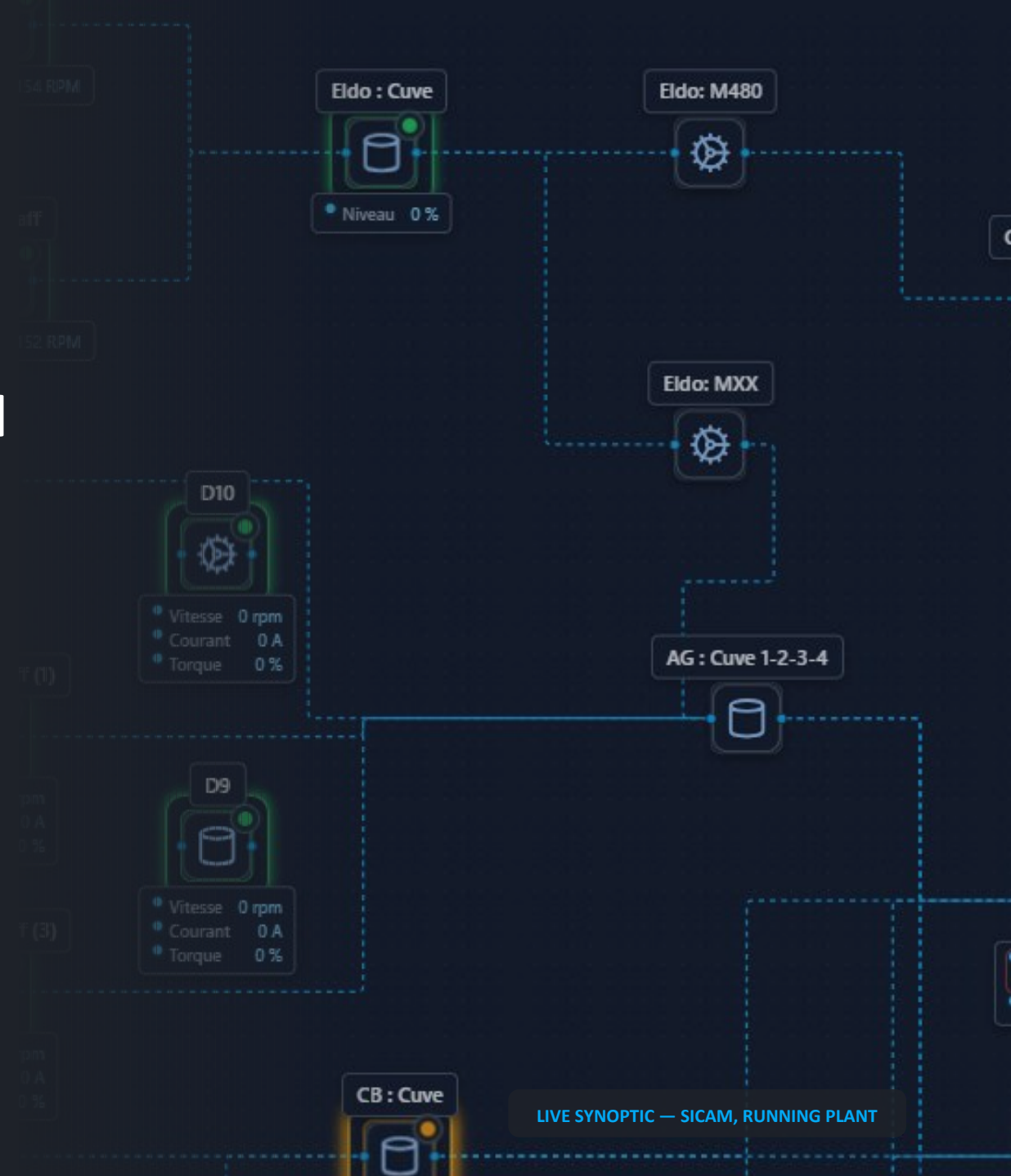


SOLUTION FOR SMART FACTORY & LIVING DIGITAL TWIN (QUERMES)

QUERMES — sensor-to-KPI smart factory platform

Your plant, alive on one screen.

- Visibility
- Uptime
- Yield and energy
- Ownership



The promise

Your plant, alive on one screen — from the first sensor to the final KPI.

THE SITUATION TODAY

Data trapped in the machines that made it

PLCs, power meters and drives each hold their own truth. None of it is comparable, and none of it leaves the machine.

No live picture of the plant

There is no single view of what every line and machine is doing right now — only screens per area and spreadsheets per shift.

Problems surface in the monthly report

Downtime, drifting yield and energy waste are discovered after they have already cost you.

WHO THIS IS FOR

Plant managers, automation and process engineering managers, industrial IT / OT leaders, energy and maintenance managers, digital-transformation directors.

What it costs you today

01

Data trapped in the machines that made it

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02

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04

Yield loss without a location

You know the material yield dropped. You cannot see where in the process it went.

05

A fault, then a mystery

One machine stops and the line follows, but nothing shows the chain reaction, so the team fixes symptoms.

06

Every change needs a vendor project

Adding a machine, a variable or a user means a ticket, a quote and a wait.

How we solve it

1

A living digital twin

Draw your plant once in the synoptic editor — no code. Link each node to a real machine and it lights up live: running, data ageing, down, alarm. Plus a true-to-scale plan de masse.

2

Multi-protocol real-time acquisition

Modbus drives, Schneider power meters, Siemens PLCs (ET200S/SP) and more, unified over a dedicated MQTT backbone.

3

No-code machine modelling

Brand → Vectors → Variables. Set units, scaling and sampling in the UI. A new variable on a machine, and the twin follows automatically.

How we solve it

4

The Control Room

Live OEE, line status, cadence, output per shift, energy per tonne and active alarms — one screen, built for the wall display and for the manager's phone.

5

Material-flow intelligence

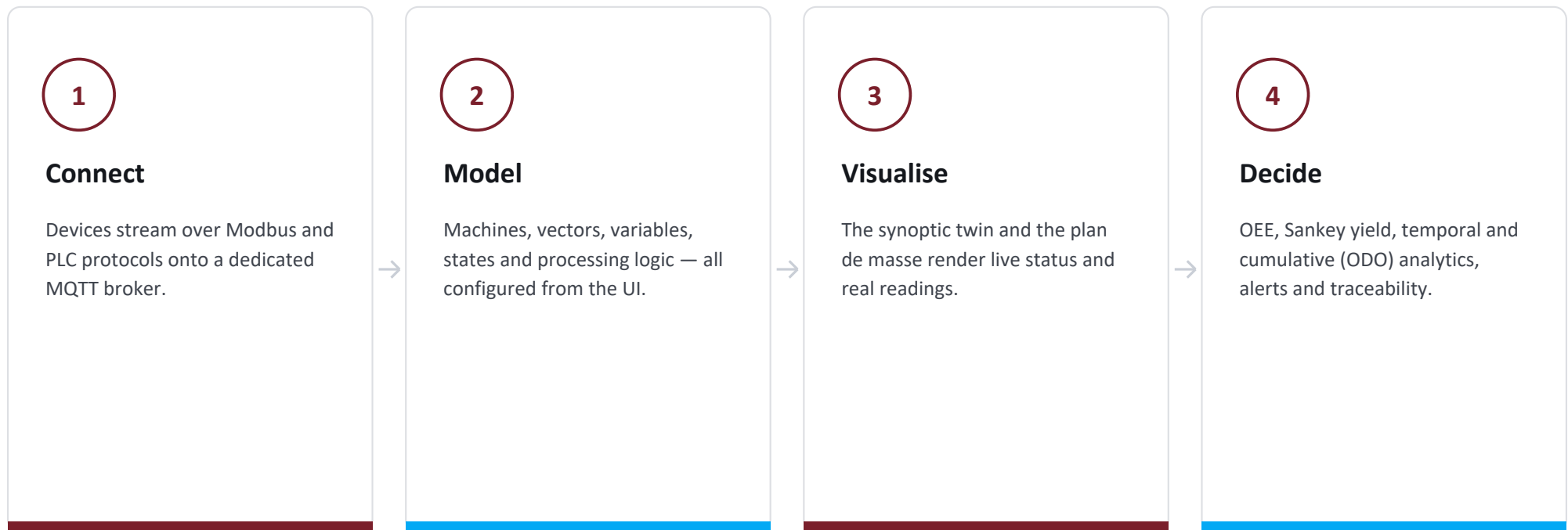
Live Sankey diagrams from raw input to finished product, with material yield tracked in real time and flagged the instant it drops below target.

6

Alerts and fault-cascade analysis

Threshold and status alarms per variable, plus a cascade view showing how one stoppage ripples downstream — so you fix the cause.

How it works



Your plant, alive on one screen — from the first sensor to the final KPI.

What you get

Visibility

The whole plant, live, on one screen — the same numbers for everyone.

Uptime

Faster reaction, fewer surprises, root cause instead of symptom.

Yield and energy

Waste made visible the moment it happens, not at month end.

Ownership

Your engineers change the model in the app, in minutes.

References: SICAM — tomato processing, lines L1/L2, full process monitoring

Proof in production

Deployed at SICAM — a tomato-processing operation running concentrate and peeled lines (L1 / L2), sertisseuses, pasteurisers, evaporators, tunnels and boilers, with material-flow yield and OEE tracked in real time.

IN OPERATION

- **SICAM — tomato processing, lines L1/L2, full process monitoring**

Every capability in this document is in production today. Figures quoted are ZoneX field measurements, not projections.

Why ZoneX

A living twin, not a dashboard

The plant model itself carries the live status.

No-code device modelling

Connect and configure without a project every time.

Sensor to KPI in one platform

Acquisition, twin, analytics, alerts, traceability and mobile.

Built for the millisecond and the multi-site

React + Node real-time services, MongoDB, high-rate time-series, MQTT.

RFID companion

ZoneX RFID mobile for on-the-floor asset tracking, enrolment and inventory.



Talk to us

Book a demonstration on your own site.

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- Visibility
- Uptime
- Yield and energy
- Ownership

Making Every Asset Visible.