



A MONITORING SOLUTION THAT TRULY CHANGES THE RULES OF THE GAME

Operational reality, closer than ever.
It listens to your processes and interprets them.
No more outdated information - only concrete actions.

Robert Maška

CI & OPS Excellence Business Leader • PROBATUR GROUP



PROBASENSE: operational reality, closer than ever

A software solution that works for you – exactly the way you need it!



Independent

No intervention in machines or IT – wireless sensors, own gateway



Available 24/7

Cloud via web and mobile, including full history



Tailored to you

Modules and KPIs built around your line



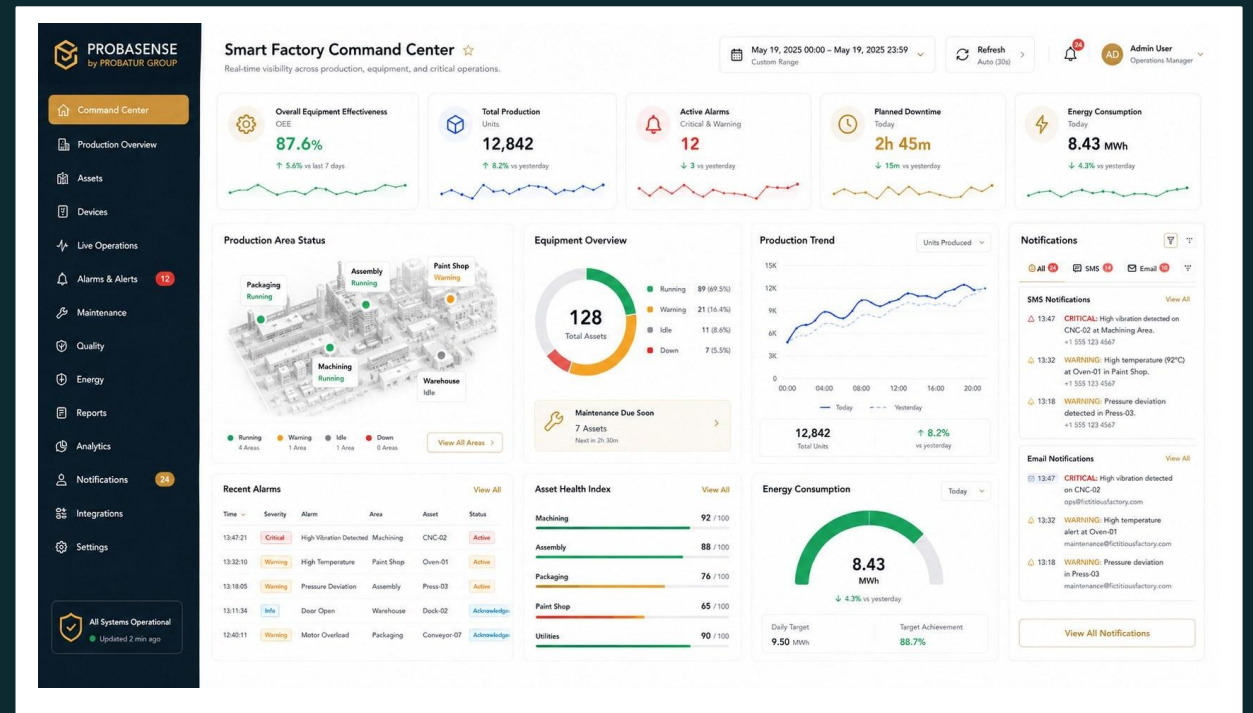
No surprises

SMS / e-mail alarms whenever you deviate from target



Here and now

Line status and downtime live on the dashboard



Example: Smart Factory Command Center – OEE, output, alarms and downtime in one view

Proven wireless sensors – deployed without a shutdown



Light barrier

part counting, cycle time



Vibration

machine condition,
predictive maintenance



Clamp-on current

machine running / stopped,
energy



Temperature & humidity

storage, material
conditions



Level / distance

material MIN/MAX, part
detection



Door contact

covers, cold rooms, zones



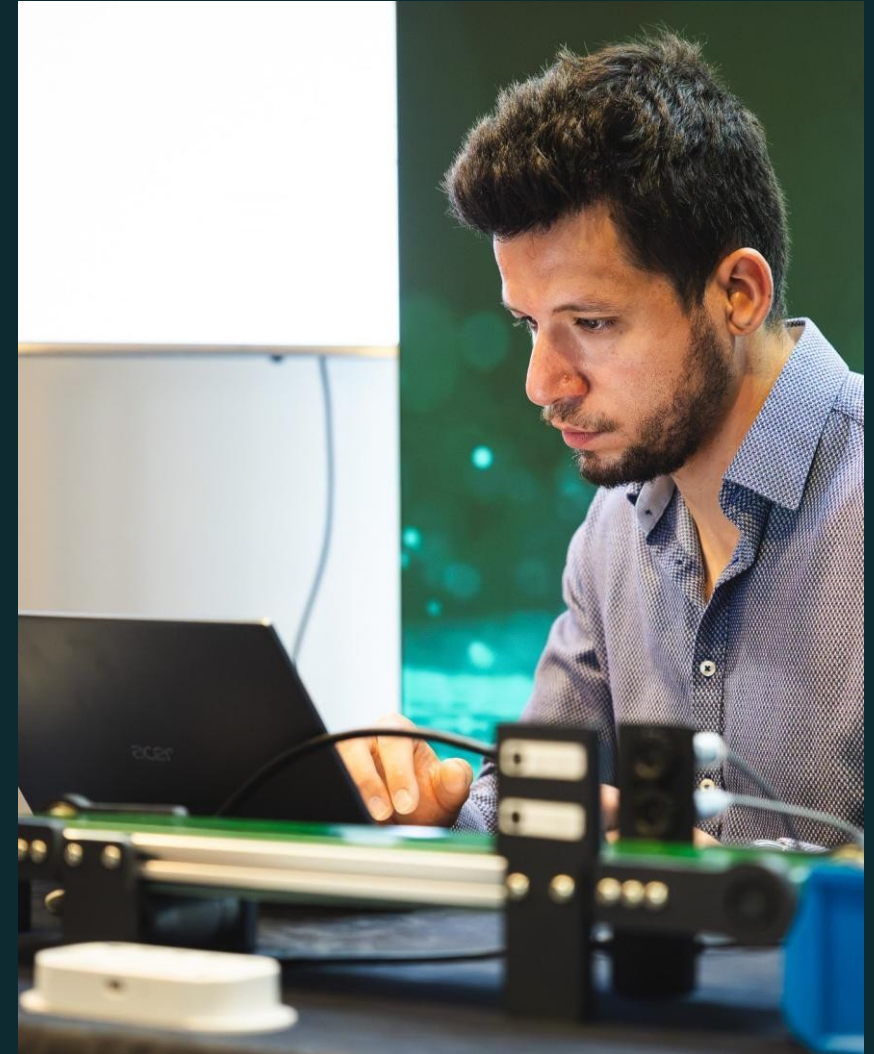
PIR motion

workstation occupancy

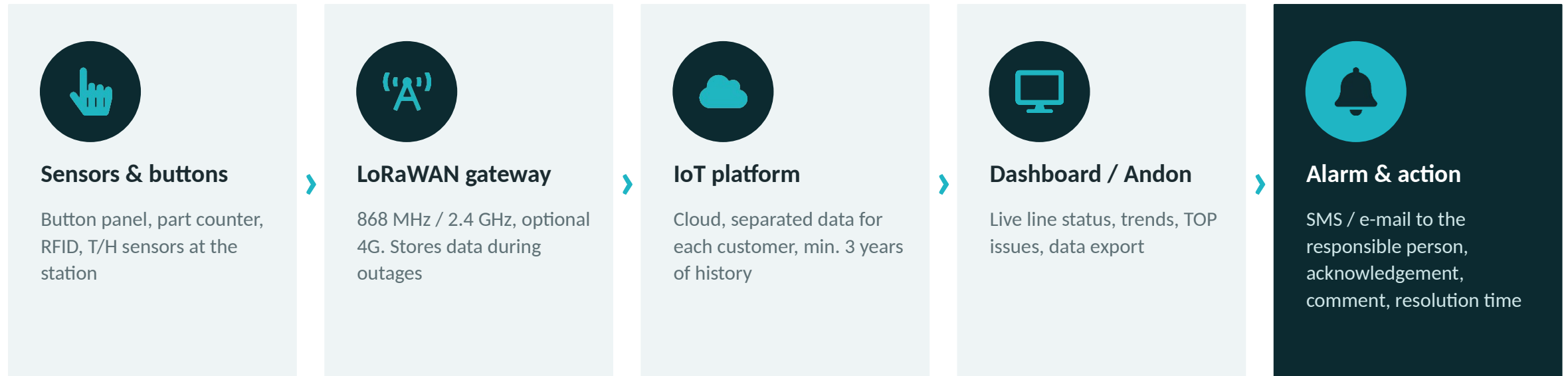


LoRaWAN gateway

data collection, 4G,
buffering during outages



From sensor trigger to action in seconds



Most-used modules: downtime, performance, people

1



Downtime & line status

5-button LoRaWAN panel at the station

- Logs each event and downtime duration
- Alarm rules, SMS & e-mail
- Live and historical dashboard

Know instantly where and why the line is down

2



Output & efficiency

LoRaWAN distance sensor / light barrier

- Automatic part counting
- Production rate and shift statistics
- Alarm when performance drops

Know whether the shift is on target - during the shift

3



People & planning

RFID reader at the station + employee badges

- Station login / logout
- Workstation occupancy
- History and data export

The qualified person in the right place



Do you know why your line is down right now?

Real-time monitoring of line status, efficiency, downtime and quality – product overview and case study

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You only learn about downtime from the next report

Pressure on performance keeps rising – yet decisions rely on data that is hours old, or doesn't exist at all.



Manual records

Downtime, part counts and issues are logged by hand and evaluated after the fact – no immediate response during the shift.



Unknown root cause

Is the line down because of quality, material or the machine? Without separating the causes, you can't drive the right actions.



Late response

Maintenance, logistics and quality learn about the problem too late. Nobody measures response times.

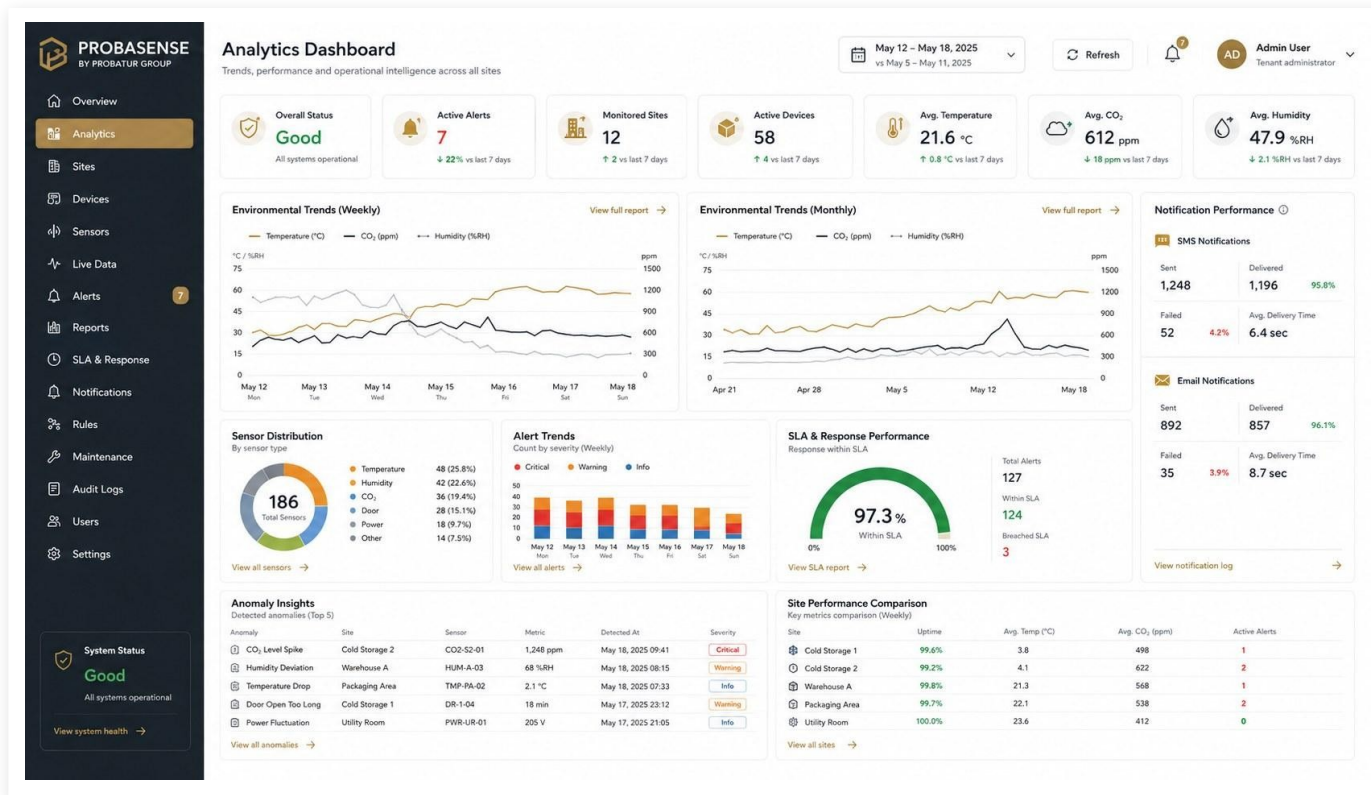


Audit without evidence

An auditor or customer wants proof of conditions and history. Paper records aren't enough.

“A lack of real-time information makes it hard for operations management to respond to critical situations.”

From downtime data straight to OEE and quality



Illustrative view of the PROBASENSE analytics dashboard



Station efficiency

Which interruptions do I have, and who contributes most – station, shift, issue type



Quality at the source

Q-incidents, NOK parts in the scrap bin, customer complaints linked to the station



Material conditions

Warehouse temperature and humidity with alarms – quality starts with incoming material



Operator qualification

RFID confirms an authorised person is at the station



Implementation examples

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We started where the audit found a gap

Challenge

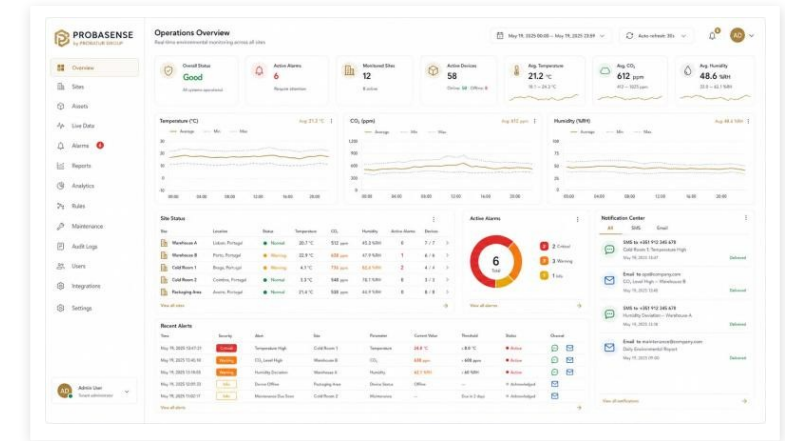
- Defined storage conditions for components (temperature, humidity)
- Manual measurement 2x a day at 3 locations, min. 30 min daily
- Risk of quality defects and audit non-conformities

Solution

- 3 wireless T/H sensors, readings every 15 min
- Local gateway + cloud dashboard
- SMS alarms, alarm lifecycle: active → acknowledged → closed

Result

- Continuous monitoring of the cold room and warehouse
- Instant alerts on any deviation
- Full traceability for audits – no manual logging



30 min

of daily manual work replaced by automatic measurement every 15 minutes

“Today we have continuous monitoring, a real-time overview and instant alerts. We have full traceability and control – exactly what was missing during the audit.”

Martin Chudý, Production Manager, SEMECS (translated from Czech)

Trust from the warehouse → production line monitoring pilot

Starting point: production data was logged manually or evaluated retrospectively. Management wanted to automate real-time monitoring and performance management.

What the customer needed to see

- Status of every station + Andon
- Type of interruption and its duration
- Biggest contributors: station, shift
- Recurring problems, trends, actions
- TOP causes: safety, quality, material, maintenance, technology, IT, qualification
- Additional Power BI integration with a third party

How we built it

- Pilot on one line, modules in a fixed sequence
- S / Q / L / M panel at every station
- Dashboard, SMS and e-mail alarms
- Output directly into the customer's Power BI
- Clear roles: PROBATUR = solution, customer = operations and actions

One press = exact cause, time and station

Panel at the station

-  Escalation
-  Quality
-  Logistics
-  Machine
-  Optional

Activation (problem)

1. Timer starts
2. Incident record is created, e.g. Q-INCIDENT 26-02 13:42
3. Assigned to the station (and person)
4. Alarm sent to the responsible team

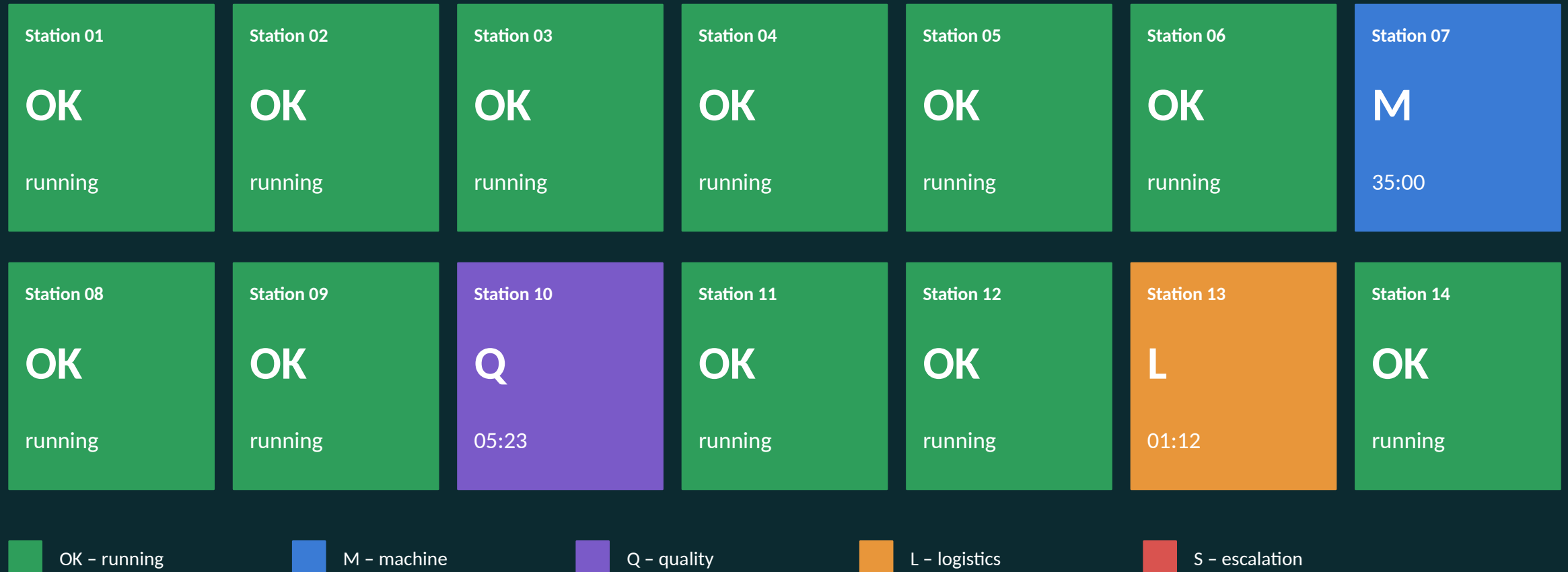
Deactivation (resolved)

1. Timer stops
2. Total duration is logged to the incident
3. Optional closure authorisation
4. Time without activation = OK time

What you get

Logistics, technical and quality downtime tracked separately · response times · escalation by station · trends: TOP issues, TOP times, TOP stations, TOP shifts

The whole line on one screen – who's down and for how long



Proposed "Current shift" view from the pilot (14 stations). The station detail shows incident history and TOP causes.

Energy across sites – finally in one view

Challenge

- Energy consumption and battery storage across multiple sites
- Live data, control and partner systems – each one separate
- Too many manual checks, too little shared overview

Solution

- Metering, live monitoring, overview of storage and sites
- Automated energy-flow control
- Alarms, planned maintenance and reporting in one system

Result

- A clear view of what is happening on each site right now
- Better control of shared energy infrastructure
- Transparent management of consumption, storage and operations across the portfolio



Illustrative interface preview

7 in 1

functions in one system instead of separate tools – from metering to reporting, used every day

“Today we see clearly what's happening on site, we have better control over shared energy infrastructure, and a more transparent way to manage consumption, storage, and operations across the portfolio.”

Thomas Schaberl, SPL TELE & electrify

The whole campus in one system: from meters to invoicing

Challenge

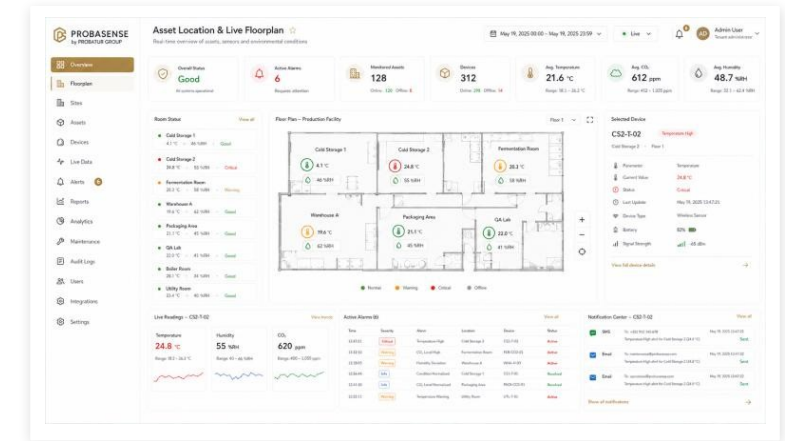
- A complex cultural and creative campus
- Tenants and contracts, shared costs, building operations, energy and water
- Several disconnected systems instead of one

Solution

- Smart metering and monitoring of energy and water
- Consumption analytics, reports, shared-cost allocation
- Automated invoicing, management of spaces, tenants and contracts

Result

- Working with clear, transparent data
- Stronger control of shared infrastructure
- Transparent management of tenants, invoicing, consumption and day-to-day operations



Illustrative interface preview

1 system

instead of several disconnected ones – from energy and water metering to automated tenant invoicing

“We now work with clearer data, stronger control over shared infrastructure, and a transparent way to handle tenants, contracts, billing, consumption, and day-to-day operations across the site.”

Boris Meluš, Nová Cvernovka



How does it work?

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A pilot running in days, not months

01

Kick-off

Team, methodology,
plan for the on-site days

02

Mapping

Observing production,
inputs/outputs,
connectivity

03

Dashboard

Visualisation and KPIs
tailored to your needs

04

Go-live

Installation, activation,
alarms, training

05

Aftercare

Fine-tuning to your
operation, support

06

Steering

Results and proposed
next steps

≈ from order to live use in a matter of days

Instead of firefighting: calm, confidence and control



Visibility

Live status of every station – no walking the line or phoning around



Faster response

The right team knows about the problem immediately; response time is measured



Facts, not impressions

A digital record of every downtime instead of paper logbooks



Targeted improvement

TOP issues, stations and shifts show where to put your CI capacity



Audit-ready

Complete history of alarms and actions for management audits and customers



Scalability

From one line to the whole plant. Ready for the Smart Factory

Let's take a look at one of your lines

1

30-minute call

We'll go through your TOP downtime causes and I'll show you 3 quick wins you'll see before any investment.

2

Operations check-up

One day on site: mapping stations and downtime causes. If we don't find value, you owe nothing.

3

Pilot in a selected area

The Downtime & line status module running in your operation within a few days.

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