

capture



Ca

CASEBOOK

Ready to unlock your industrial data?

CONTACT US

info@captureplatform.com • www.captureplatform.com



Hey there we are Capture

... and we are passionate about making industrial data work in the real world. We believe industrial data only creates value when it is reliable, contextual and actionable on the shop floor. Our mission is to enable industrial teams to turn data into operational performance.

This casebook is here to inspire you.

It showcases real-world Capture projects and how a solid industrial data backbone helps organisations gain control, insight and scalability across production, assets and operations.

Please take a moment to review and reflect.

On what it would mean if your operational data was truly trustworthy. On how that could improve performance, safety and decision-making across your organisation. Digital transformation is not a future ambition — it is happening on the shop floor today.

Feel free to reach out to our skilled, hands-on and industry-driven Capture team. We look forward to engaging with you and discussing your operational challenges and data ambitions.

Most of all, let's build, improve and scale together.

Sincerely yours,

The Capture team

www.captureplatform.com



Data is locked in silos
SCADA, PLC, MES, ERP, ...



No **real-time insights**
OEE, downtime, scrap or energy



AI models fail due to
poor data quality or
missing data



Reporting is manual
Excel → error-prone & slow



IT and OT operate side
by side, not together



Every digitalization
starts "from scratch,"
without **scalability**



Unable to connect
legacy machines

We all want to go digital
but where to start?

Capture unlocks the
full potential of AI
by unifying scattered data

AI

The starting point for
any AI or third-party
application



capture

Capture collects,
unifies, and
contextualizes



Scattered data
across different
architectures

Our strategic solutions

Industrial data backbone & enabling AI



Making industrial data reliable, structured and ready for intelligence.

This solution focuses on reliably connecting, normalising and contextualising industrial data across OT, IT and IoT environments.

It creates a consistent, reusable data foundation that supports analytics, applications and future AI initiatives.

Typical focus:

Industrial connectivity. Data structuring. Edge-cloud architectures. Brownfield and multi-site environments.

Operational visibility & performance monitoring



Turning data into objective operational insight.

With a reliable historian and data backbone in place, operational performance becomes visible, measurable and comparable.

Production, assets, energy and quality are monitored using shared definitions and consistent KPIs.

Typical focus:

OEE. Energy monitoring. Asset performance. Dashboards. Cross-site comparison.

Workflow apps & operator interaction



Embedding insight into daily operations.

This solution bridges the gap between insight and action by bringing data into operational workflows.

Operators, supervisors and technicians work directly with data through lightweight, purpose-built applications.

Typical focus:

Operator interfaces. Quality and inspection flows. Service and intervention apps. MES-light workflows.

Scalable asset management & field services (OEM / IoT)



Managing distributed assets and services at scale.

For OEMs and providers of smart connected products, we enable central monitoring, lifecycle management and scalable service models for the installed base.

Typical focus:

Remote monitoring. Fleet intelligence. Commissioning. Field services. Customer portals.

Digital Maturity Model

Digital Maturity is not a tool,

it's a growth journey, and Capture is the foundation that enables every next step.

NORTH STAR



OPERATIONAL EXCELLENCE AND ENERGY OPTIMISATION

OEE & Energy as One Operational View

The winning edge: Operational visibility & performance monitoring



MATURITY LEVEL _____



2
Visibility (with clear path towards Level 3 via OEE app)

THE PROBLEM _____

- ⚠ **Fragmented performance insight**
Production and energy data were monitored separately, without a shared operational context.
- ⚠ **Late root-cause detection**
Losses and deviations became visible too late to intervene effectively.
- ⚠ **Manual analysis effort**
Operators and managers relied on manual interpretation of disconnected data sources.

WE DELIVERED _____

- ✓ **Integrated OEE & energy platform**
One real-time operational view combining production, OEE and energy data.
- ✓ **Contextual analytics**
Correlation of performance losses with energy and process conditions.
- ✓ **Shared operational dashboards**
A single source of truth for shopfloor and management.

THE BUSINESS IMPACT _____

- ✓ Faster detection of losses and deviations
- ✓ More targeted operational interventions
- ✓ Measurable reduction in energy and production cost per unit

STRATEGIC VALUE _____

- 🔄 Energy becomes a first-class operational lever within a scalable, objective factory steering model.

Operational Insights

The winning edge: Operational visibility & performance monitoring



MATURITY LEVEL _____



3
Intelligence (built on Level 2 visibility)

THE PROBLEM _____

- ⚠ **Hidden root causes**
Scrap and downtime were visible, but their underlying causes remained unclear.
- ⚠ **Fragmented data**
Process, machine and quality data were not connected.
- ⚠ **Reactive optimisation**
Improvements were based on assumptions rather than objective insight.

WE DELIVERED _____

- ✓ **Central analytics platform**
Consolidation of production, process and quality data.
- ✓ **Correlation analysis**
Linking machine behaviour and parameters to quality losses.
- ✓ **Repeatable insight models**
Objective identification of structural improvement opportunities.

THE BUSINESS IMPACT _____

- ✓ Structural reduction of scrap and downtime
- ✓ Higher and more stable OEE
- ✓ Targeted, data-driven process improvements

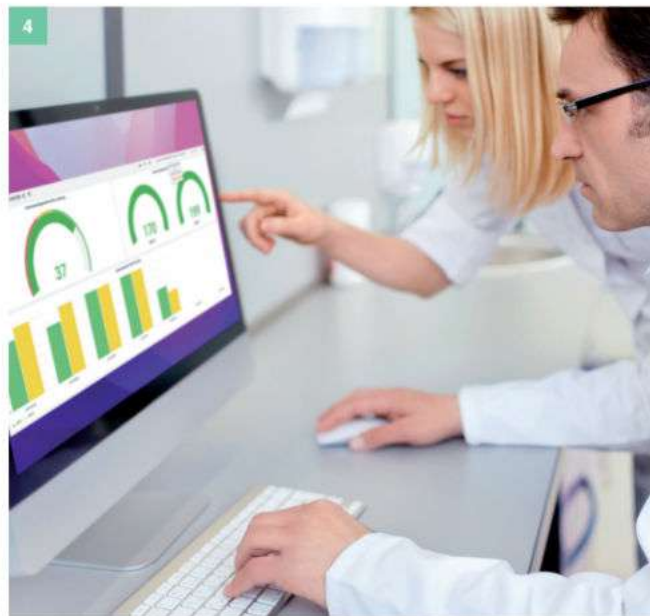
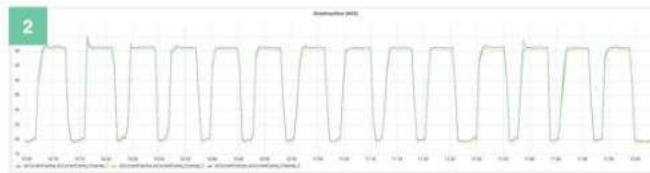
STRATEGIC VALUE _____

- 🔄 Operational improvement becomes continuous, objective and repeatable.

Energy & Production Monitoring

The winning edge: Operational visibility & performance monitoring

1



IMAGES

1. Hatchery trolley's
2. Energy peaks = Counting production of trolley's
3. Energy peaks
4. Custom dashboard – Shift performance info

MATURITY LEVEL _____



3

Intelligence (with growth path towards Level 4 predictability)

THE PROBLEM

- ⚠ **No central real-time insight**
Energy consumption and incubation conditions were monitored in isolation.
- ⚠ **Process optimisation risk**
Scaling and optimisation lacked objective data support.
- ⚠ **Limited deviation detection**
Trends and anomalies were detected too late.

WE DELIVERED

- ✓ **Unified industrial data platform**
Consolidation of process and energy data.
- ✓ **Continuous monitoring**
Real-time visibility into conditions, deviations and trends.
- ✓ **Historical analysis**
Data-driven optimisation and benchmarking.

THE BUSINESS IMPACT

- Improved process stability
- Lower energy consumption per output unit
- Higher reliability of critical incubation conditions

STRATEGIC VALUE

- 🔄 Data becomes the foundation for predictable performance and scalable global growth.

Energy Monitoring & Optimisation

The winning edge: Operational visibility & performance monitoring

1



IMAGES

1. Known for their hart mint
2. Energy & electricity monitoring of the machine fleet & automated weekly reports

2

MATURITY LEVEL



THE PROBLEM

- ⚠ **Lack of energy transparency**
Consumption was only visible after the fact.
- ⚠ **Late deviation detection**
Waste and inefficiencies were discovered too late.
- ⚠ **Limited optimisation leverage**
Energy data lacked process context.

WE DELIVERED

- ✓ **Central energy platform**
Real-time energy consumption and temperature monitoring.
- ✓ **Contextual insights**
Linking energy use to machines and processes.
- ✓ **Deviation alerts**
Faster detection of abnormal consumption patterns.

THE BUSINESS IMPACT

- ✓ Faster energy deviation detection
- ✓ Targeted energy optimisations
- ✓ Structural reduction in energy consumption per unit

STRATEGIC VALUE

- 🔄 Energy management becomes proactive and structurally embedded in production operations.

Detailed Data Monitoring of Fire Trucks

The winning edge: Scalable asset management & field services (OEM / IoT)

MATURITY LEVEL _____



3

Intelligence (built on Level 2 visibility)

THE PROBLEM _____

- ⚠ **Distributed mobile assets**
Vehicle data was not centrally accessible.
- ⚠ **Limited remote service capability**
Diagnostics required physical intervention.
- ⚠ **Reactive maintenance**
Issues were addressed only after failures.

WE DELIVERED _____

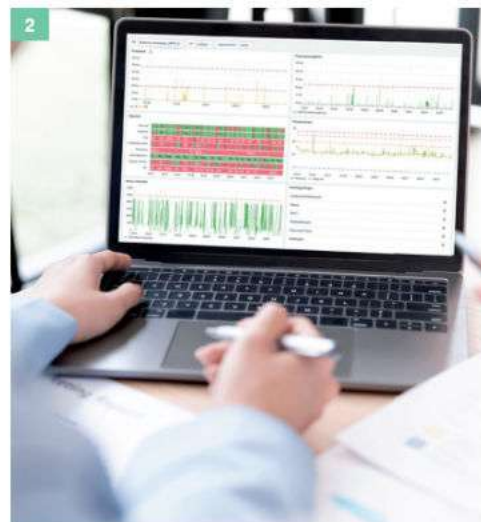
- ✓ **End-to-end fleet platform**
Secure cloud-based data consolidation.
- ✓ **Remote logging and updates**
Real-time diagnostics and software updates.
- ✓ **Service workflows**
Data-driven support and intervention processes.

THE BUSINESS IMPACT _____

- ✓ Lower operational and maintenance costs
- ✓ Higher vehicle availability
- ✓ Faster and better-informed service actions

STRATEGIC VALUE _____

- 🔄 Fleet management shifts from reactive to data-driven service enablement.



IMAGES

1. Critical data of the truck is sent by 4G
2. Performance dashboard
3. Fire trucks



Raw material Dosing Optimisation

The winning edge: Operational visibility & performance monitoring

1



2



IMAGES

1. Consistent dosing
2. Dosing Machine

MATURITY LEVEL



4
Predictable (built on Level 3 intelligence)

THE PROBLEM

- ⚠ **Process variability**
Temperature and viscosity changes affected dosing accuracy.
- ⚠ **Structural overdosing**
Quality was protected through waste.
- ⚠ **Operator dependency**
Results varied per shift and operator.

WE DELIVERED

- ✓ **Process intelligence analytics**
Real-time analysis of production parameters.
- ✓ **Operator decision support**
Optimal dosing settings per batch.
- ✓ **Stability monitoring**
Early detection of deviations.

THE BUSINESS IMPACT

- ✓ Reduced overdosing and waste
- ✓ Shorter setup times
- ✓ Stable and consistent batch quality

STRATEGIC VALUE

- 🔄 Production evolves from experience-driven to predictable and scalable.

Full Operational Intelligence

The winning edge: Industrial data backbone & enabling AI

MATURITY LEVEL _____



2

Visibility (with clear growth towards Level 3 intelligence)

THE PROBLEM

- ⚠ **Data silos across sites**
Production and energy data were fragmented.
- ⚠ **Slow comparison and steering**
Site-to-site benchmarking was difficult.
- ⚠ **Limited strategic insight**
Leadership lacked a consolidated view.

WE DELIVERED

- ✓ **Central operational intelligence platform**
Secure data consolidation across sites.
- ✓ **Role-based insights**
Dashboards for shopfloor, management and leadership.
- ✓ **Edge-enabled data capture**
Reliable industrial connectivity.

THE BUSINESS IMPACT

- ✓ Faster, better-informed decisions
- ✓ Improved energy efficiency
- ✓ Consistent steering across all sites

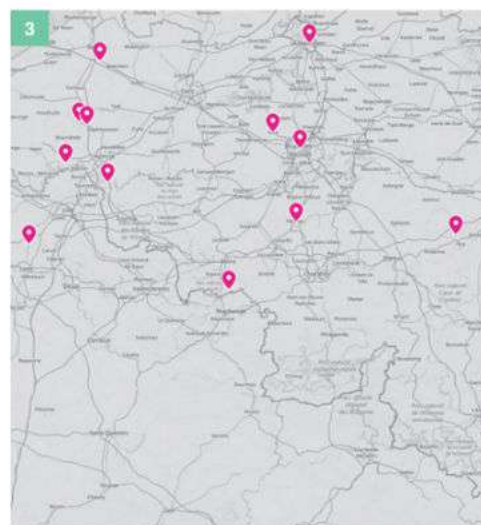
STRATEGIC VALUE

- 🔄 A single operational truth enables scalable governance and future-proof optimisation.



IMAGES

1. New future-proof building
2. OEE dashboard
3. Multiple locations



Product Traceability

The winning edge: Workflow apps & operator interaction

The dashboard displays incident details for #98779. It includes a 'Back to overview' button, a 'Copy link' button, and a 'Download report' button. The incident details section shows the incident type, order ID (1925), and pallet ID (8890). A 'Comments' section contains placeholder text. The main timeline shows three stages: Picking PL39, Transport T3, and Packing PZ003. Each stage has a video thumbnail, a play button, and a 'Flag incident' button. The Picking PL39 stage is highlighted with a red background. A video player is open, showing a close-up of a pallet on a conveyor belt. The video player includes a progress bar, a timestamp of 03:22, and a 'Flag incident' button.

MATURITY LEVEL



Intelligence (with a path towards Level 4 predictable quality)

THE PROBLEM

- ⚠ **Limited traceability**
Product history was incomplete.
- ⚠ **Time-consuming claims handling**
Root causes were hard to prove.
- ⚠ **High operational cost**
Manual investigation slowed resolution.

WE DELIVERED

- ✓ **Integrated traceability solution**
Linking vision, production events and ERP data.
- ✓ **Time-stamped product history**
End-to-end visibility per product.
- ✓ **Claim-support workflows**
Faster, objective case handling.

THE BUSINESS IMPACT

- ✓ Faster and more accurate claims handling
- ✓ Lower failure costs
- ✓ Improved quality evidence

STRATEGIC VALUE

- 🔄 Transparent, data-driven traceability strengthens quality reputation and trust.

OEE & Energy Intelligence

The winning edge: Scalable asset management & field services (OEM / IoT)

MATURITY LEVEL _____



3
Intelligence (with a path towards
Level 4 predictability)

THE PROBLEM

- ⚠ **Fragmented data landscape**
OEE and energy data were disconnected.
- ⚠ **Slow loss detection**
Deviations were discovered late.
- ⚠ **Limited service scalability**
Data was not reusable across business models.

WE DELIVERED

- ✓ **Smart Plant platform**
Secure consolidation of OEE, energy and process data.
- ✓ **Role-based apps**
Actionable insights for operators and engineers.
- ✓ **OEM-ready architecture**
Foundation for scalable services.

THE BUSINESS IMPACT

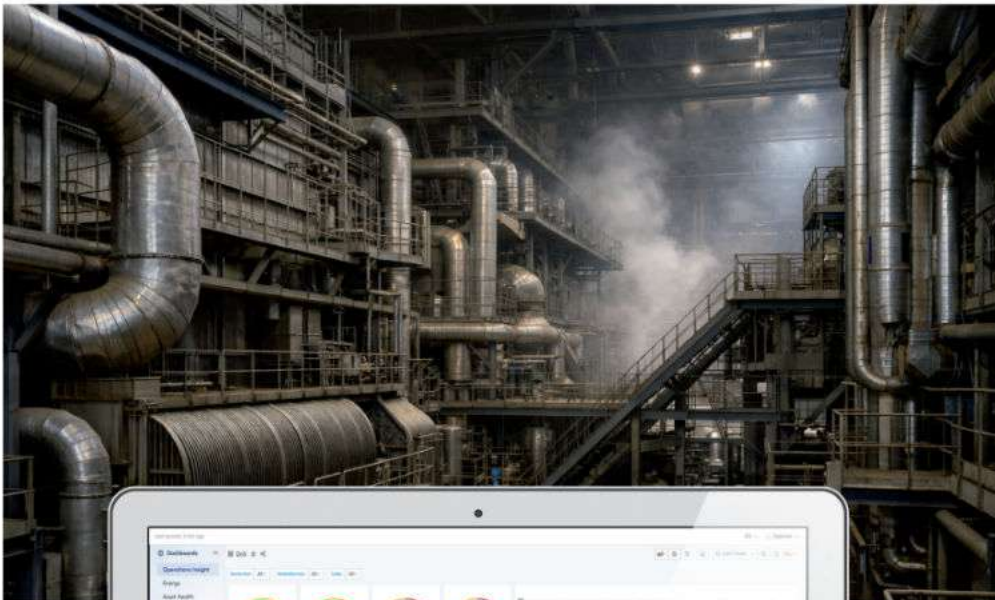
- ✓ Improved OEE
- ✓ Better energy efficiency
- ✓ Faster data-driven interventions

STRATEGIC VALUE

- 🔄 A single platform supports internal optimisation and future data-driven business models.

IMAGES

1. Operational insight dashboard



1



Autonomous Pallet Shuttle for Intralogistics

The winning edge: Scalable asset management & field services (OEM / IoT)

MATURITY LEVEL _____



THE PROBLEM

- ⚠ **Fleet coordination complexity**
Accurate motion control and coordination across a full shuttle fleet were difficult to scale reliably.
- ⚠ **Reproducibility risk**
Control behaviour needed to remain stable and predictable across different customers and projects.
- ⚠ **Time-to-market pressure**
New functionality had to be deployed faster without increasing system risk or operational instability.

WE DELIVERED

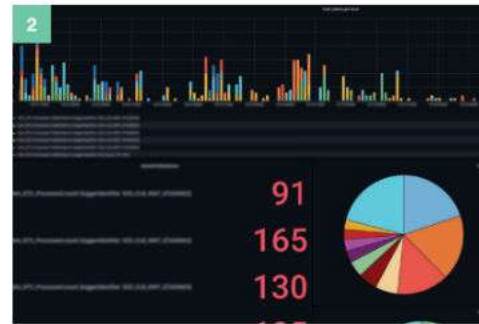
- ✓ **Real-time control stack**
Robust low-latency control software with tight sensor and motor integration.
- ✓ **Scalable traffic control**
Centralised coordination logic enabling safe and efficient multi-shuttle operation.
- ✓ **System integration**
Seamless integration with WMS, logging and simulation tooling.
- ✓ **Virtual validation**
Simulation-based strategy validation prior to on-site deployment.

THE BUSINESS IMPACT

- 📈 Faster rollout of new shuttle functionality
- 📈 Higher system reliability in complex customer projects
- 📈 Flexible deployment across multiple intralogistics environments

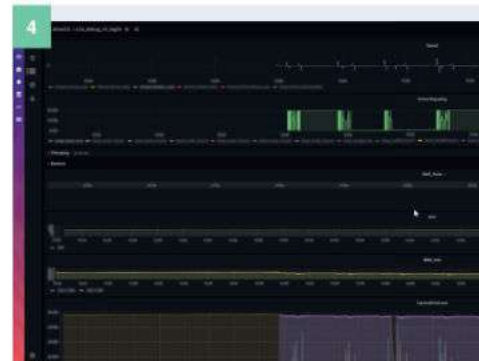
STRATEGIC VALUE

- 🔗 A proprietary control foundation enables scalable, self-optimising shuttle intelligence and strengthens long-term differentiation as an intralogistics OEM.



IMAGES

1. STOW - Atlas 2D
2. Development debugging - 2ms samplerate @ 20-40k rows/s
3. STOW - eScala
4. Shuttle status - for fast and remotely debugging
5. Detailed fleet overview per location/site - Allowing updates
6. Workflow analytics



EXTERNAL LINKS



Using data to check behavior

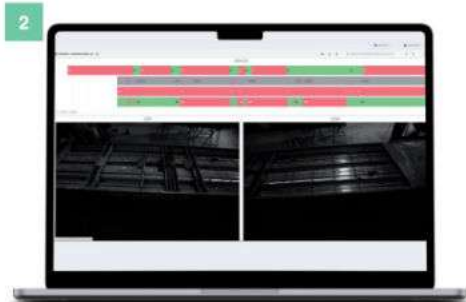


Movu Robotics Full range



Vision-Based Detection of Reinforcement in Concrete Moulds

The winning edge: Operational visibility & performance monitoring



IMAGES

1. Visual dashboard to check production status
2. Image ingestion in Capture along with time series data for evaluation and retraining
3. Visual inspection of presence of reinforcing net
4. Cattle slats
5. Potato slats

MATURITY LEVEL _____



THE PROBLEM _____

- ⚠ **Missing reinforcement**
Errors were detected after casting.
- ⚠ **High scrap cost**
Late detection caused waste.

WE DELIVERED _____

- ✓ **Vision verification**
Automated check before pouring.

THE BUSINESS IMPACT _____

- ✓ Zero casting errors
- ✓ Lower scrap cost

STRATEGIC VALUE _____

- 🔄 Quality is structurally secured before casting.

High-Volume Production Data Logging & Analysis

The winning edge: Industrial data backbone & enabling AI

MATURITY LEVEL _____



3
Intelligence (with a foundation for Level 4 predictability)

THE PROBLEM

- ⚠ **Massive data volumes**
High-frequency production and event data could not be structurally captured.
- ⚠ **Limited root-cause insight**
Quality and process issues were hard to analyse after the fact.
- ⚠ **Fragmented tooling**
Logging, analysis and reporting were spread across systems.

WE DELIVERED

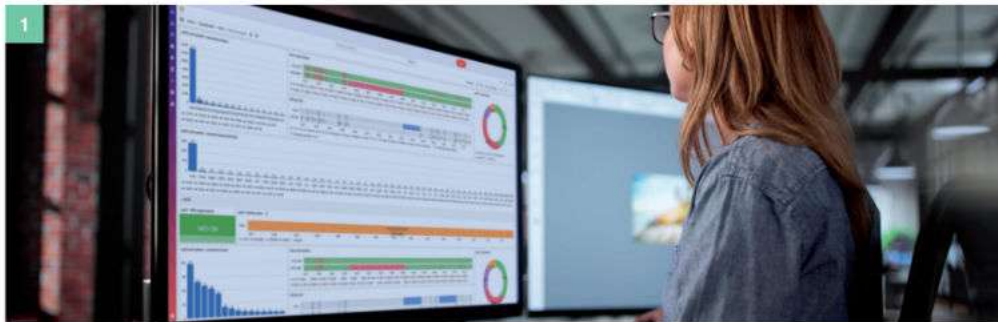
- ✓ **Scalable data logging architecture**
Structural capture of large volumes of production and event data.
- ✓ **Contextual data modelling**
Linking process signals, events and production context.
- ✓ **Analytics-ready data layer**
Data prepared for downstream analysis and optimisation.

THE BUSINESS IMPACT

- ✓ Faster root-cause analysis
- ✓ Improved process stability
- ✓ Better-informed optimisation decisions

STRATEGIC VALUE

- 🎯 A robust data foundation enables predictable improvement of complex, high-volume production processes.



IMAGES

1. Line status
2. Real time line status
3. Supervisor team dashboard
4. Overview of all lines



Automated Cable & Rope Inspection Platform

The winning edge: Scalable asset management & field services (OEM / IoT)

MATURITY LEVEL _____



THE PROBLEM

- ⚠ **Risky manual inspection**
Traditional inspections exposed operators to safety risks.
- ⚠ **Subjective assessments**
Inspection results varied per inspector.
- ⚠ **Limited historical insight**
Degradation trends were hard to track.

WE DELIVERED

- ✓ **Central inspection data platform**
Structural logging of inspection and vision data.
- ✓ **Historical condition analysis**
Tracking defect progression over time.
- ✓ **Decision-support dashboards**
Objective insights for maintenance planning.

THE BUSINESS IMPACT

- ✓ Improved safety
- ✓ Reduced inspection cost
- ✓ More consistent condition assessment

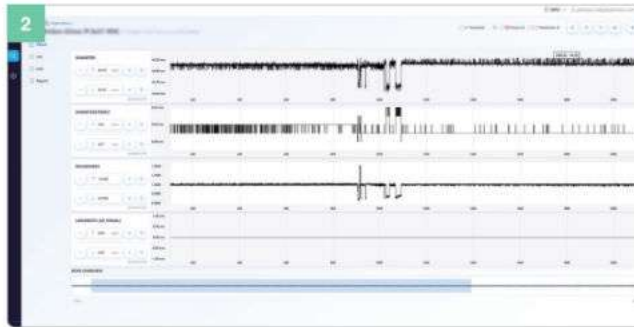
STRATEGIC VALUE

- 🔄 Data-driven inspection becomes the basis for lifecycle-based maintenance and service models.

1



2



IMAGES

1. Cable inspection machine
2. Inspection chart
3. Inspection overview per rope
4. Inspection report
5. Synthetic data of various wire defects

3



4



5



OEE Pilot & Operational Visibility

The winning edge: Operational visibility & performance monitoring



IMAGES

1. Day performance
2. Line overview
3. Week performance
4. Shift performance

MATURITY LEVEL



2
Visibility (with a path towards Level 3 intelligence)

THE PROBLEM

- △ **No objective performance insight**
Production losses were not quantified.
- △ **Improvement paralysis**
Lack of data made prioritisation difficult.
- △ **Low digital maturity**
Heavy investments were not feasible.

WE DELIVERED

- ✓ **Low-threshold OEE pilot**
Rapid deployment on existing machines.
- ✓ **Real-time performance dashboards**
Immediate insight into losses and downtime.
- ✓ **Scalable roadmap**
Clear next steps towards higher maturity.

THE BUSINESS IMPACT

- ✓ Rapid transparency on production losses
- ✓ Targeted improvement actions
- ✓ Clear business case for further digitalisation

STRATEGIC VALUE

- 🔄 A controlled, scalable entry point enables data-driven operational improvement without disruption.

From Manual Monitoring to Real-Time Operational Control

The winning edge: Operational visibility and performance monitoring

MATURITY LEVEL _____



2
Visibility (with a clear path towards Level 3 intelligence)

THE PROBLEM

- ⚠ **Fragmented shopfloor visibility**
Operators had to walk between machines to check separate HMIs, without a central operational overview.
- ⚠ **High manual effort and uncertainty**
Monitoring and maintenance decisions relied on manual checks and estimates, increasing stress and downtime risk.

WE DELIVERED

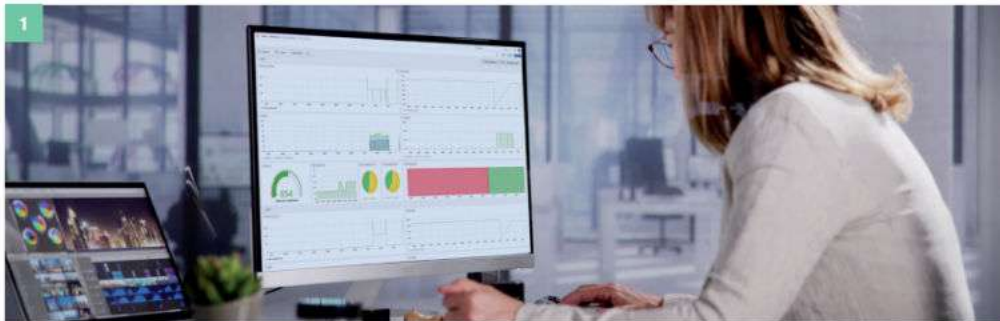
- ✓ **Plug-and-play Capture Edge deployment**
A fast, low-complexity setup using standard Capture components without custom development.
- ✓ **Centralised operational data layer**
Machine, infrastructure and process data consolidated into one real-time view.
- ✓ **Real-time dashboards and alerts**
Intuitive dashboards and standard alerts supporting daily operations and maintenance.

THE BUSINESS IMPACT

- 📈 Less operator stress and clearer shopfloor focus
- 📈 Faster, more proactive maintenance planning

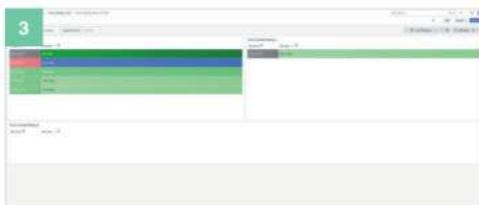
STRATEGIC VALUE

- 🔄 A scalable digital operational foundation brings structure and predictability to the shopfloor, while enabling future expansion without added IT complexity.



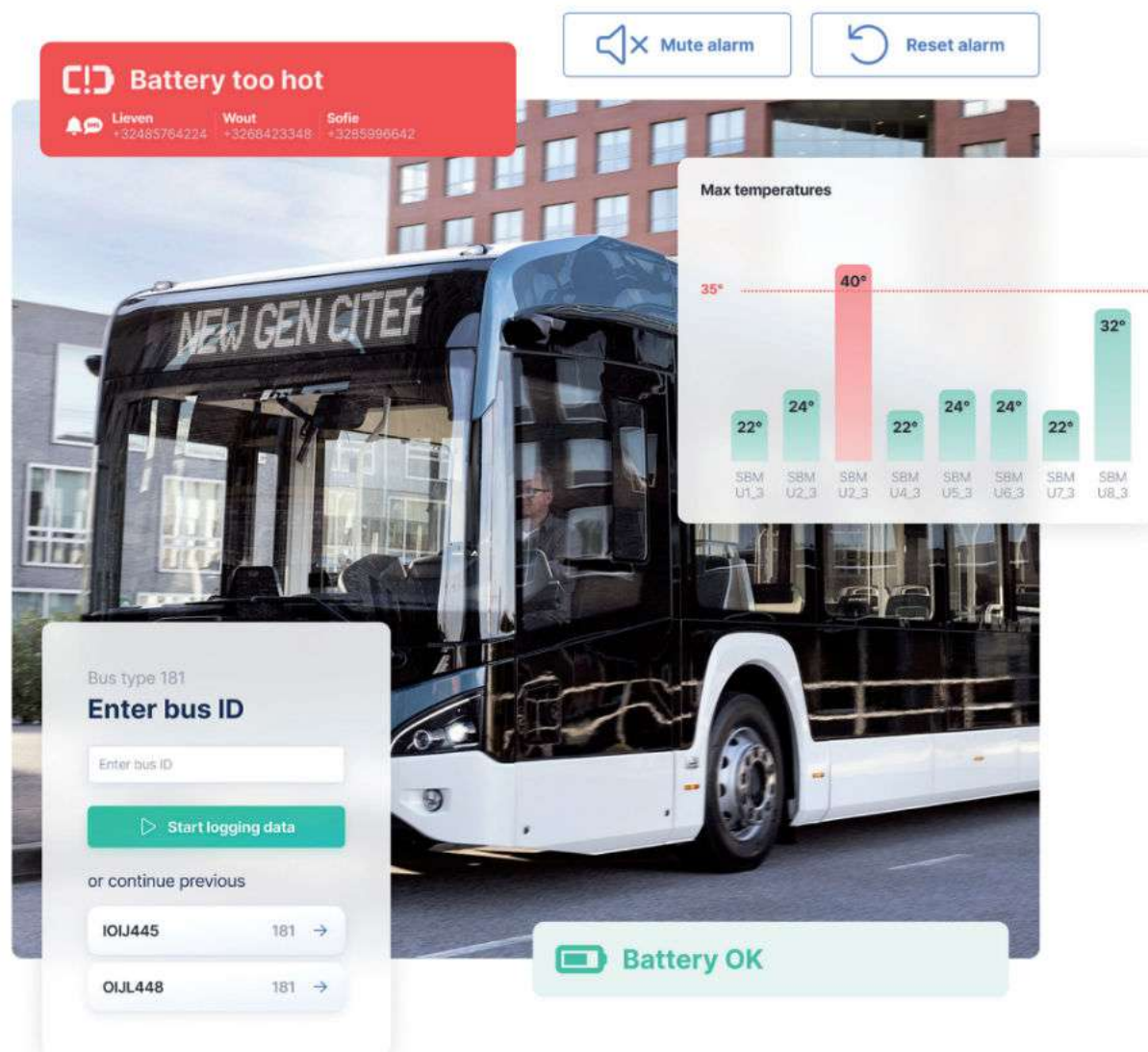
IMAGES

1. Machine dashboard
2. Air Handling Unit dashboard
3. Time to finish
4. Voltage dashboard



Safety-Critical Battery Pack Monitoring

The winning edge: Operational visibility & performance monitoring



MATURITY LEVEL



3
Intelligence (real-time monitoring and alerting)

THE PROBLEM

- ⚠ **Safety-critical data gaps**
CAN data was not logged consistently.
- ⚠ **No chassis-level traceability**
Data could not be linked per vehicle.
- ⚠ **Delayed anomaly detection**
Risks were identified too late.

WE DELIVERED

- ✓ **Edge-based CAN logging**
Per-vehicle data capture during assembly.
- ✓ **Real-time dashboards and alerts**
Immediate visibility of anomalies.
- ✓ **Chassis-linked data model**
Full traceability per battery pack.

THE BUSINESS IMPACT

- ✓ Faster anomaly detection
- ✓ Improved product safety
- ✓ Efficient monitoring of parallel assemblies

STRATEGIC VALUE

- 🔄 A scalable platform enables safety-critical monitoring and future lifecycle intelligence.

Supervision Platform for Distributed Energy Assets

The winning edge: Scalable asset management & field services (OEM / IoT)

MATURITY LEVEL _____



2
Visibility (with growth towards Level 3 intelligence)

THE PROBLEM

- ⚠ **Distributed asset complexity**
Energy assets were geographically dispersed.
- ⚠ **Limited real-time supervision**
Monitoring required manual intervention.
- ⚠ **Slow incident response**
Issues were detected late.

WE DELIVERED

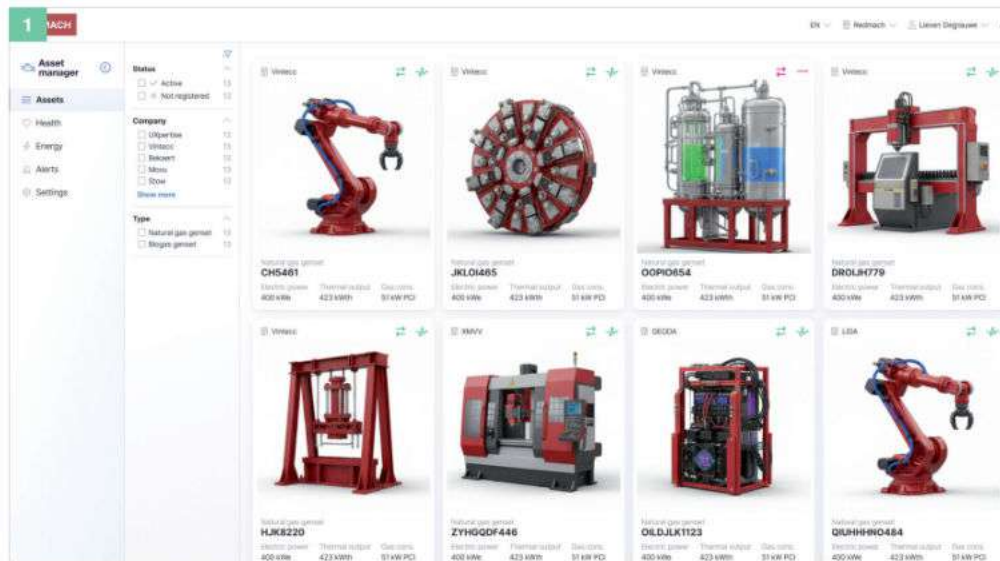
- ✓ **Central supervision platform**
Consolidated real-time asset monitoring.
- ✓ **Remote control and alerts**
Faster intervention and control.
- ✓ **Secure cloud architecture**
Reliable, scalable deployment.

THE BUSINESS IMPACT

- ✓ Faster deviation detection
- ✓ Higher asset availability
- ✓ More efficient service operations

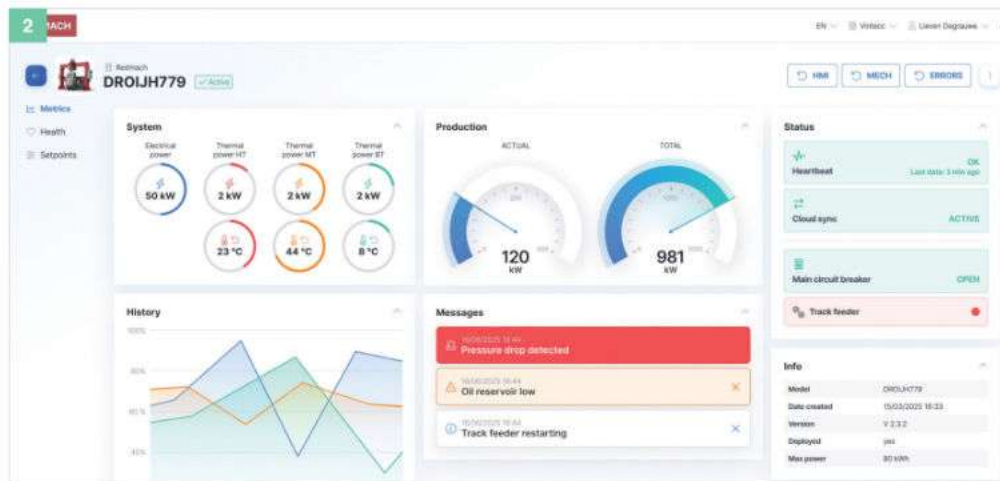
STRATEGIC VALUE

- 🔄 A future-ready supervision foundation supports scalable energy asset management.



IMAGES

1. Asset manager
2. Machine dashboard



Vision AI Quality Inspection Platform (Capture-enabled)

The winning edge: Operational visibility & performance monitoring

MATURITY LEVEL _____



3
Intelligence (high-volume inline deployment)

THE PROBLEM _____

- ⚠ **High product variation**
Multiple variants increased inspection complexity.
- ⚠ **Manual inspection limits**
Consistency was hard to guarantee.
- ⚠ **Late quality feedback**
Deviations propagated downstream.

WE DELIVERED _____

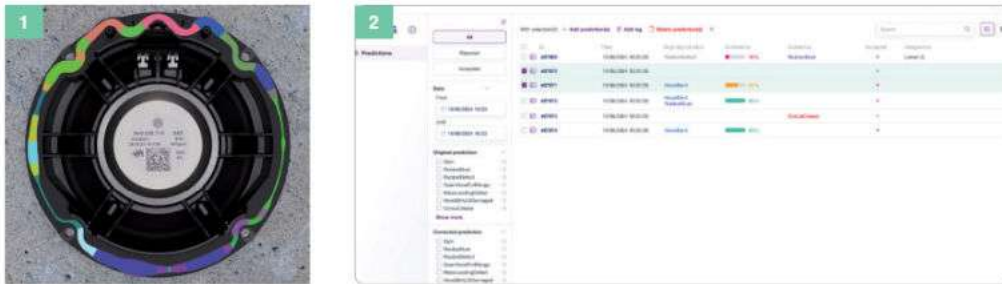
- ✓ **Central vision data platform**
Logging and contextualisation of inspection results.
- ✓ **Inline quality dashboards**
Real-time accept/reject insights.
- ✓ **Feedback loops to production**
Faster corrective actions.

THE BUSINESS IMPACT _____

- 📈 Higher first-time-right
- 📉 Reduced failure costs
- ⚡ Faster quality response

STRATEGIC VALUE _____

- 🔄 Vision inspection becomes an integrated, scalable part of operational intelligence.



IMAGES

1. Training Data
2. Overview inspected speakers
3. Continuous inspection & defect detail
4. Product inspection data in Capture



Capture Business Impact

Qualitative & Quantitative Business Impact

Based on all our previous
analyses and use cases



Enabling AI

the starting point for any AI
or third-party application



Energy

5-15% monitoring savings



OEE

8-20% improvement
within 6 months



Less scrap

better insight into
process deviations



Downtime

10-40% reduction



Reporting

30-50% less time
spent on reporting



Operators

become active
owners of KPIs



Root-cause

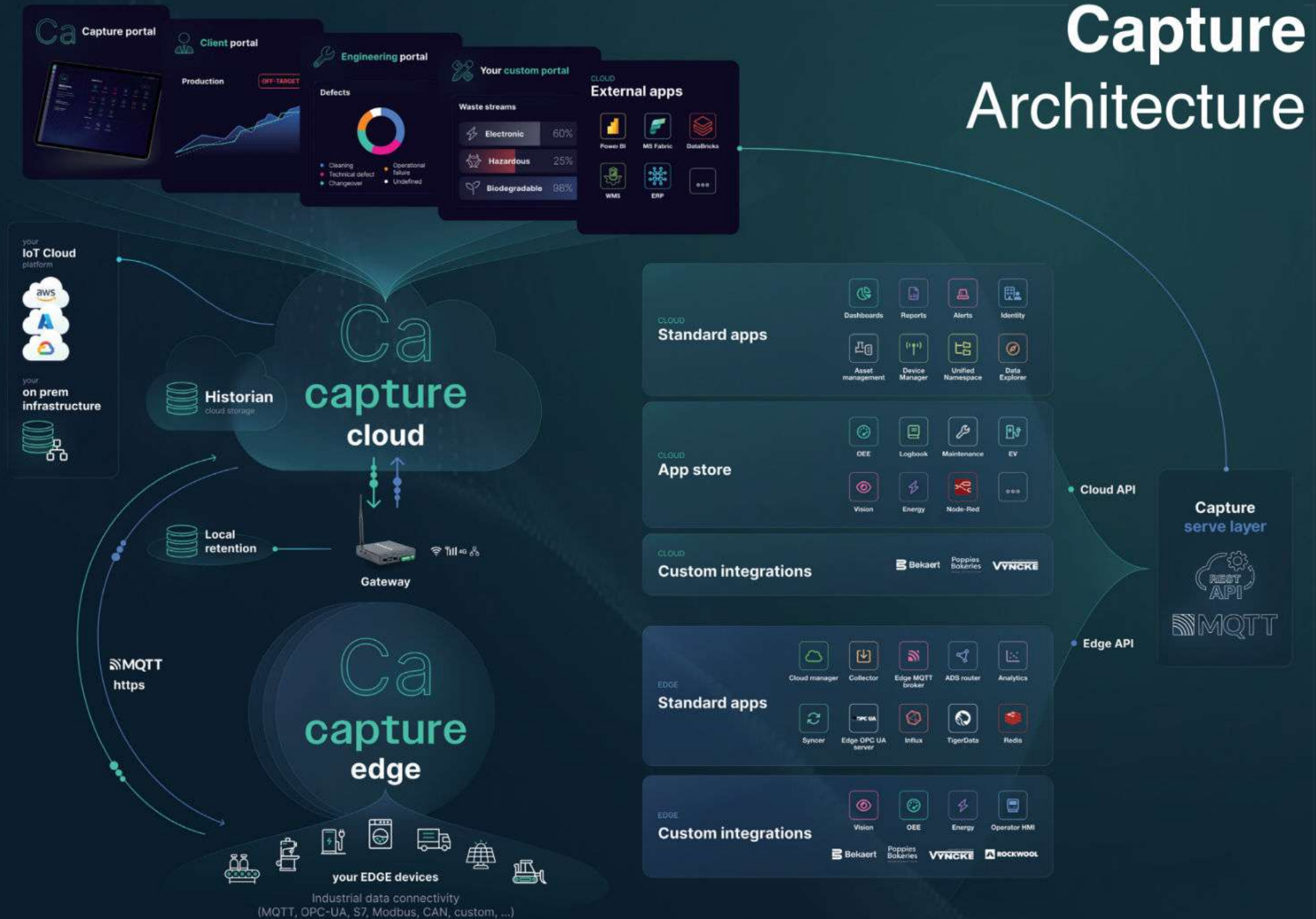
from hours to minutes



Assets

track asset data without
hunting for information

Capture Architecture



capture

Unlock your industrial data.