

PRODUCT WORKFLOW STUDY

From reactive repairs to prioritised machine health and preventive maintenance

A machine-care workflow showing how Corexa can turn service history, component intervals, condition signals and upcoming work into an actionable maintenance view.

Evidence level stated clearly throughout

Repository-reviewed

Capability basis

Machine health

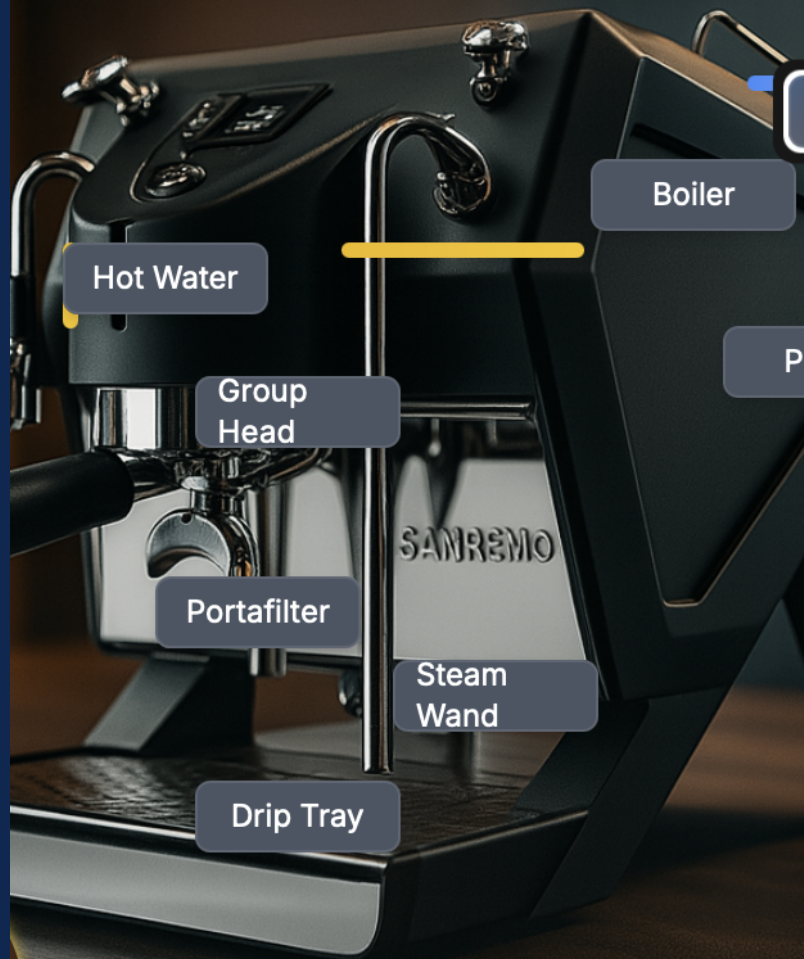
Core operating model

Component-aware

Maintenance context

Pilot required

Outcome standard



THE CHALLENGE

Why the existing process breaks down

Preventive maintenance is difficult when service dates, usage, component condition and technician recommendations are kept in different places. Teams can know that maintenance matters without having a reliable way to decide which machine, component or site should be acted on first.

01

Intervals live outside the asset

Maintenance frequencies may sit in spreadsheets, manuals or staff memory instead of the machine record.

02

Wear becomes visible too late

A component is often discussed only after performance declines or a breakdown occurs.

03

All due work looks equally urgent

A flat overdue list cannot distinguish risk, operational importance or a deteriorating machine trend.

04

Service does not close the loop

Completed work may not update the component state, health view or next due date.

05

Fleet patterns remain hidden

Management cannot easily compare machines, sites or models to identify repeated maintenance demand.

06

Recommendations are not actioned

A technician note can identify future work but never become a visible task or scheduled job.

The central risk

Maintenance becomes a calendar reminder rather than an evidence-based operating decision connected to the actual machine and its service record.

THE OPERATING MODEL

A connected workflow around the machine

Corexa uses the machine as the persistent record. Health calculations, component intervals, alerts, maintenance tasks and completed service can be connected so the next action is based on accumulated context rather than one isolated date.

1

Profile

Register the machine, components, service history and relevant operating context.

2

Assess

Calculate or refresh health and component condition using available service evidence.

3

Prioritise

Surface due work, deterioration, alerts and machines that require review.

4

Act

Create a maintenance task, booking or technician recommendation against the asset.

5

Refresh

Record completed work and update the next interval, history and health trend.

COREXA CAPABILITY	OPERATIONAL CHANGE	WHY IT MATTERS
Unified health engine	Provides a common entry point for machine health calculations and refresh activity.	Health views can be based on a repeatable calculation path rather than page-specific logic.
Component intervals	Supports service intervals and component-level maintenance settings.	Maintenance can describe what is due, not only that the whole machine needs attention.
Health trends	Stores or derives changing machine condition over time.	Teams can identify decline, stability or improvement instead of viewing one static score.
Maintenance and alerts	Surfaces due work, component signals and suggested actions.	The next decision becomes visible to the owner, operator or technician.
Service-linked refresh	Allows maintenance activity to invalidate and recalculate related health data.	Completed work can change the operational picture rather than remain an isolated note.
Machine report	Supports a machine health and service report for review or sharing.	The condition narrative can be communicated beyond the dashboard.

CREDIBILITY STANDARD

What is supported - and what is not yet claimed

A credible case study distinguishes repository evidence, real workflow scope and future outcome hypotheses. The evidence level below is deliberately explicit.

✓ Repository capability

The repository contains a central machine health engine, health trends, cache refresh utilities, component intervals, maintenance views and machine report generation.

✓ Operational model

Health, maintenance and service are represented as connected machine-level functions.

✓ Credible limitation

A health score is a service signal, not a guarantee of future failure or a substitute for technician inspection.

✓ Pilot requirement

Historical service records and technician review are needed to test whether signals are timely, understandable and operationally useful.

Not yet claimed: this case study does not present a measured productivity, revenue, accuracy or customer-satisfaction improvement. A controlled baseline and participant-approved result are required before those claims are published.

Measurement plan for the publishable version

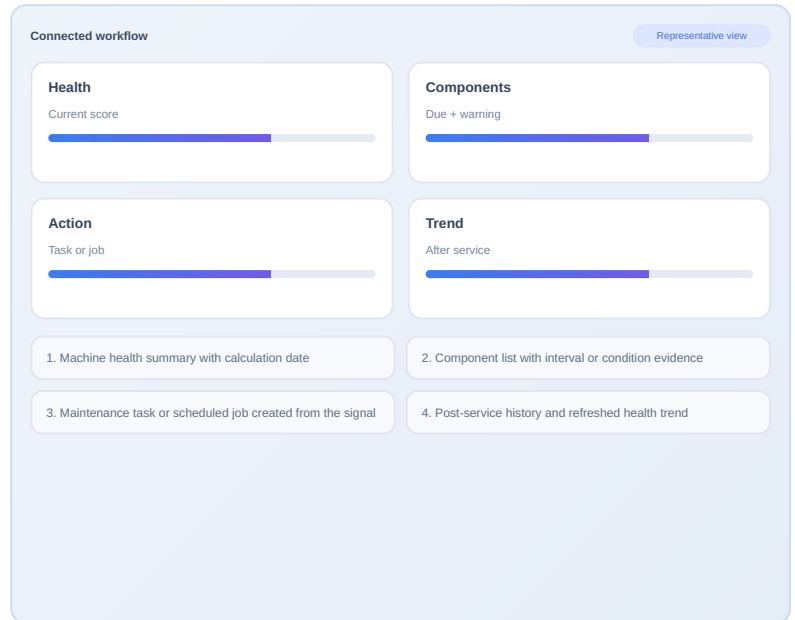
MEASURE	EVIDENCE SOURCE	CREDIBLE REPORTING
Assets with complete intervals	Machine configuration audit	Percentage of active machines with usable component or service interval settings.
Overdue maintenance	Maintenance register	Count and age of overdue maintenance actions by site and machine.
Alert-to-action time	Alert and task timestamps	Median time from alert creation to review, booking or dismissal.
Emergency breakdown rate	Job history	Breakdown jobs per 100 machine-months before and during pilot.
Signal usefulness	Technician review sample	Percentage of alerts judged relevant, premature or incorrect.
Post-service health change	Health snapshots	Recorded change after verified service, with exceptions reviewed.

"Machine health is credible only when users can see the evidence, understand the signal and verify what changed after service."

MAKE THE STORY TANGIBLE

Show how a maintenance signal becomes real work

The strongest proof is a sequence: machine health view, component detail, maintenance action and the updated record after service. Avoid presenting a score without showing its source or operational consequence.



Recommended evidence-building sequence

Phase 1 - Data quality

Select a small machine cohort and validate service dates, components and interval assumptions.

Phase 2 - Technician review

Run alerts alongside normal operations and record whether each signal is useful.

Phase 3 - Publishable result

Report accuracy, response time, overdue work and breakdown frequency with clear limitations.

Build the publishable proof layer

Replace representative views with dated interface screenshots, a defined baseline, system-derived measures and an approved participant quotation.

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Publication note: capability descriptions are based on the Corexa repository supplied in July 2026. Confirm the deployed workflow, permissions, integrations and data quality before presenting a capability as a completed customer outcome.