

PRODUCT WORKFLOW STUDY

From isolated part replacement to a component-level machine lifecycle

A component-history workflow showing how Corexa can connect condition, wear, replacement, service events and future maintenance at a level deeper than the whole machine.

Evidence level stated clearly throughout

Repository-reviewed

Capability basis

Component lifecycle

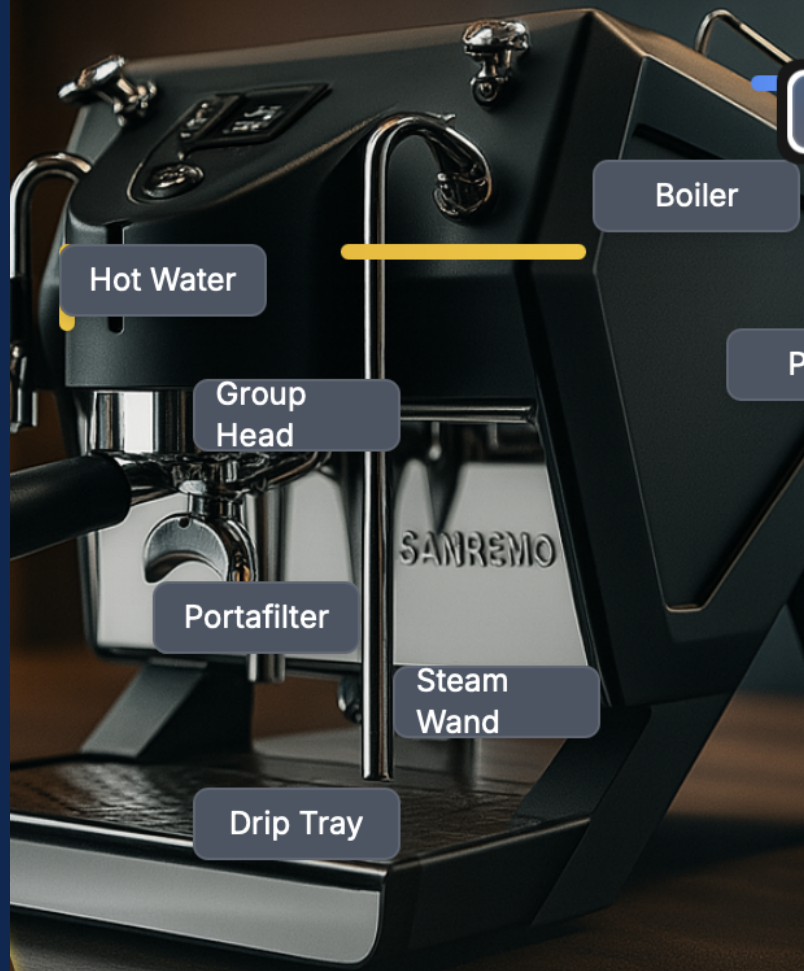
Primary workflow

Connected record

Operating model

Pilot required

Outcome standard



THE CHALLENGE

Why the existing process breaks down

Two machines of the same age can have very different component histories. Whole-machine service records often hide which valve, pump, seal, grinder burr or filtration component is actually driving reliability and cost.

01

Replacement history is buried

A part appears on an old invoice without a clear component location or reason for replacement.

02

Wear is described inconsistently

Technicians use different wording for condition and severity.

03

Repeated failures are missed

The same component system can fail several times without a visible pattern.

04

Maintenance is machine-wide

A generic service interval does not reflect the condition or duty of specific components.

05

Compatibility is uncertain

A part record may not clearly identify which machine model or component position it supports.

06

Health scores lack explanation

A machine-level score can be difficult to trust when the underlying component evidence is not visible.

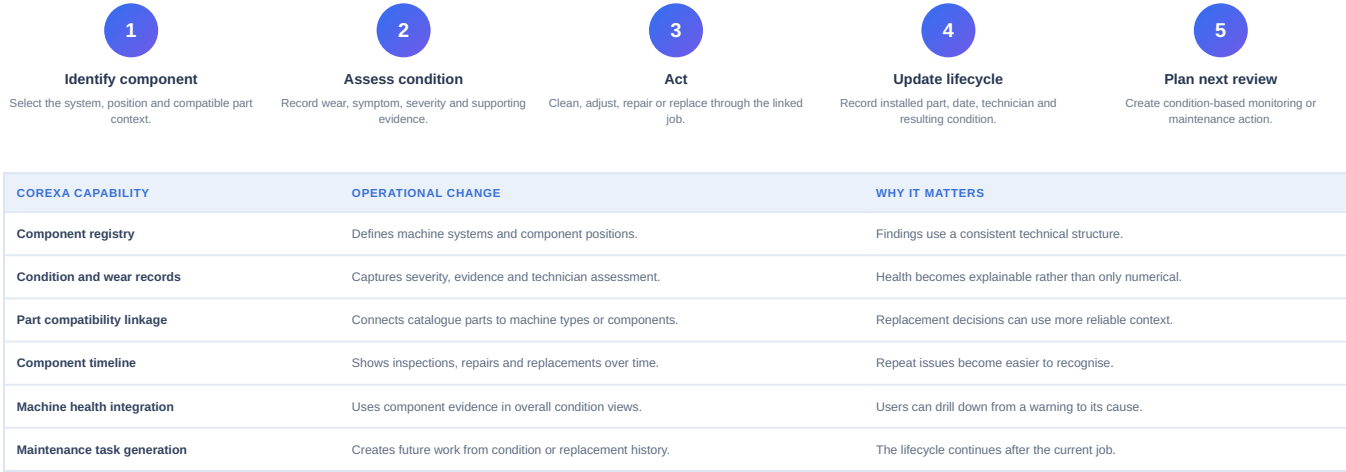
The central risk

Without component-level continuity, the business can replace parts repeatedly without learning which systems are deteriorating or why.

THE OPERATING MODEL

A connected workflow around the machine

Corexa can maintain a component registry and timeline connected to machine health, job findings, installed parts and maintenance tasks.



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 includes component registries, component timelines, wear and health logic, machine-type-aware components, compatible parts and suggested maintenance.

✓ Connected operating model

The workflow is designed to keep component lifecycle connected to the relevant machine, customer, site, job and responsible user.

✓ Credible limitation

Component condition remains dependent on accurate technician assessment and validated manufacturer guidance; inferred wear should not be presented as certain failure prediction.

✓ Pilot requirement

A defined cohort should be measured from baseline through controlled use before any productivity, cost, revenue or satisfaction outcome is published.

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

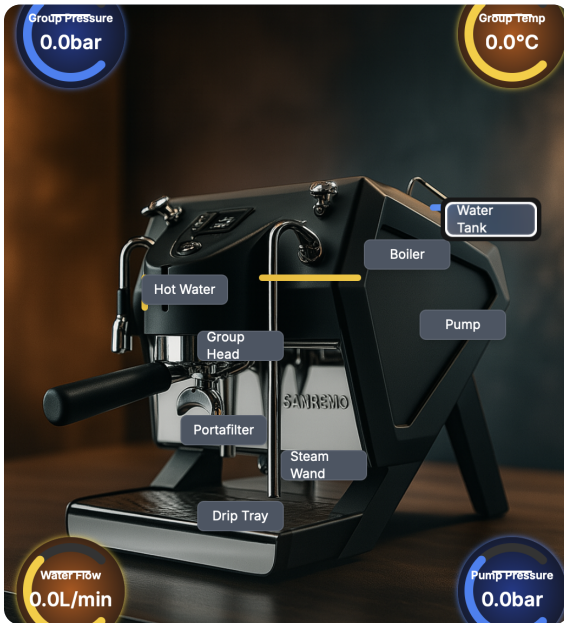
MEASURE	EVIDENCE SOURCE	CREDIBLE REPORTING
Component identification rate	Job finding audit	Percentage of relevant findings linked to a defined component.
Replacement traceability	Parts and component timeline	Percentage showing part, date, technician and reason.
Repeat component failure	Timeline analysis	Related events per component system over the chosen period.
Condition evidence coverage	Media and note audit	Assessments supported by defined evidence.
Health explainability	Warning review	Percentage of warnings traceable to component findings.
Maintenance follow-through	Generated task records	Condition-led tasks completed within target timing.

"A machine history becomes diagnostically powerful when it can explain not only that work occurred, but which component changed and why."

MAKE THE STORY TANGIBLE

Show one component across inspection, replacement and future monitoring

Use a specific component and display its position, condition evidence, installed part, timeline event and resulting maintenance plan. Avoid generic machine imagery without the technical link.



Connected workflow

Representative view

Identify component

Select the system, position and compatible part context.

Assess condition

Record wear, symptom, severity and supporting evidence.

Act

Clean, adjust, repair or replace through the linked job.

Update lifecycle

Record installed part, date, technician and resulting condition.

1. Machine component view with selected system

2. Condition assessment and supporting evidence

3. Installed part linked to job and component

4. Component timeline and next maintenance action

Recommended evidence-building sequence

Phase 1 - Baseline	Phase 2 - Controlled workflow	Phase 3 - Verified result
Select a representative sample and record the current process, delays, errors and missing evidence.	Apply one agreed Corexa process, ownership rule and completion standard for 8-12 weeks.	Report system-derived measures, dated screenshots and a participant-approved quotation.

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.