

Battery AI Analytics Workspace

Your battery evidence. One connected workspace.

One connected solution for engineering, operations, quality, testing and field diagnostics.



Illustrative product visualization. Interface and data shown for demonstration.

QUALITY ROOT CAUSE ANALYSIS

Find the cause. Build the evidence.

AI + ENGINEERING REVIEW

AI-generated fishbone diagram

Candidate causes linked to source evidence

AI-generated 8D report

D1 Team	D5 Corrective action
D2 Problem	D6 Validation
D3 Containment	D7 Prevention
D4 Root cause	D8 Closure

Draft → review → validate → close

Connect evidence → Generate a draft → Engineer review

Illustrative workflow

What your team can do with Battery AI Analytics Workspace

- 01 NPI change control**

Compare revisions and trace their impact on requirements, tests and production readiness.
- 03 Testing and failure analysis**

Compare test curves, investigate abnormal responses and plan follow-up tests.

- 02 Quality root cause analysis**

Connect evidence, generate fishbone diagrams and draft 8D reports for engineering review.
- 04 Field diagnostics**

Connect symptoms, telemetry and asset history to identify the next diagnostic check.

Bring a battery question. Explore the evidence with us.

industrialmind.ai →

FOUR CONNECTED USE CASES

From a battery question to a verified action.

One evidence loop across engineering, operations, quality, testing and field diagnostics.

01 / USE CASE

NPI change control

What changed before the next gate?

Compare supplier submissions, specifications and process revisions. Link changes to affected requirements, tests and owners. Identify missing validation evidence and prepare a controlled handover.

OUTPUT / Change-impact summary + validation checklist

02 / QUALITY ROOT CAUSE ANALYSIS

From a failed test to a reviewable 8D report.

A pack fails a resistance test after a process change. Bring the evidence together before assigning a cause.

01 - Connect evidence

Link test results, batch history, process changes and inspection records. Define the failure and affected population.

02 - Generate & investigate

Generate an evidence-linked fishbone diagram. Compare candidate causes and define checks that can distinguish them.

03 - Validate & report

Draft the 8D report. Engineers confirm the cause, approve corrective action and record validation before closure.

OUTPUT / Source-linked fishbone diagram + 8D report draft

Illustrative investigation. Conclusions and corrective actions require engineering review.

03 / USE CASE

Testing and failure analysis

Which test differences explain the failure?

Compare cycling, capacity, DCIR and thermal results under matched conditions. Check measurement context, identify abnormal responses and define follow-up tests that distinguish competing explanations.

OUTPUT / Test comparison + failure-analysis record

04 / USE CASE

Field diagnostics

What explains the symptom in service?

Combine fault events, BMS telemetry, operating conditions and manufacturing history. Compare relevant peers, prepare diagnostic checks and return verified findings to engineering and quality.

OUTPUT / Diagnostic evidence summary + next-check list

The shared foundation Battery ontology · Knowledge graph · Approved knowledge · Traceable analysis