

Maintenance System Diagnostic

A fixed-scope look at how your maintenance system really performs: where availability is lost, what it costs, and the first changes that pay back within one quarter. The result is a plan your team owns, not a report that leaves with the consultant.

Results from comparable work

×2

Mean time between repairs at an aluminum smelter, with repair time down more than 12%.

85–87%

Mining fleet and plant availability sustained across a multi-site gold group.

–20%

Repair costs in power generation, with 18% fewer unplanned failures in 5 months.

WHAT WE LOOK AT

- Plan versus actual: compliance with maintenance schedules and the reasons for every miss.
- Availability, MTBF and MTTR of critical equipment, and where the hours go.
- Equipment criticality and whether maintenance strategy matches it.
- Spare parts: stock-outs, excess inventory, lead times for critical items.
- Planning and scheduling routines, work-order quality, shift handover.
- KPIs and incentives: what maintenance teams are actually rewarded for.

WHAT YOU GET

- A quantified loss tree: availability and cost losses by equipment and by cause.
- The effect calculation: what closing the top gaps is worth in metric tons and money.
- A 100-day action plan with owners, targets and a weekly review routine.
- Two or three quick wins started during the diagnostic itself.
- A written report and a session with your leadership team.

How it runs 2 WEEKS · ON SITE OR REMOTE

DAYS 1–3

Data and interviews

CMMS and production data, interviews with maintenance, operations and stores.

DAYS 4–8

Shop floor

Walk-downs, planning meetings, work-order sampling, critical spares check.

DAYS 9–10

Plan and effect

Loss tree, effect calculation and the 100-day plan agreed with your team.

Also from previous work: mining equipment strategy that cut CAPEX by \$4.5 million a year at three sites and production cost by 2.5% through repair optimization; underground mine plan compliance raised from 48–50% to 84–88%.



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Operational improvement since 2005: McKinsey, Partners in Performance, Nordgold (acting COO), EuroChem, EVRAZ; project lead at Ma'aden in 2026

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