

STEEL AND HEAVY MANUFACTURING

Asset reliability intelligence for a European specialty-steel producer

Furnaces, rolling mills and annealing lines fail expensively, and maintenance history, KPIs and site data are spread across systems. Wexa built a reliability graph across five sites with an AI analyst that answers questions and flags the next failure.

€1.12M

potential savings identified

~€350K

value of one predictive catch

5 / 10

sites / critical assets modelled

78–89%

site OEE range surfaced and compared

CLIENT

European specialty-steel producer (5 production sites)

REGION

Europe

WHEN

2026

ENGAGEMENT

Solution build

WEXA COMPONENTS

Wexa • context graph • AI analyst agent • reliability dashboard

The challenge

- Unplanned downtime on electric-arc furnaces and rolling mills
- Maintenance events, KPIs and asset data reviewed site by site
- No single view of OEE, MTBF and MTTR across the company

What Wexa built

- ✓ Graph: company → production site → asset → maintenance event, with reliability KPIs per site (OEE, MTBF, MTTR, downtime, cost)
- ✓ Reliability dashboard with overview, assets, sites and events
- ✓ AI analyst answering questions over the graph and explaining its evidence
- ✓ The same pattern was built for a precision-machining CNC fleet: health scores, alerts, failure probability and a maintenance queue for 10 machines

How it runs on Wexa

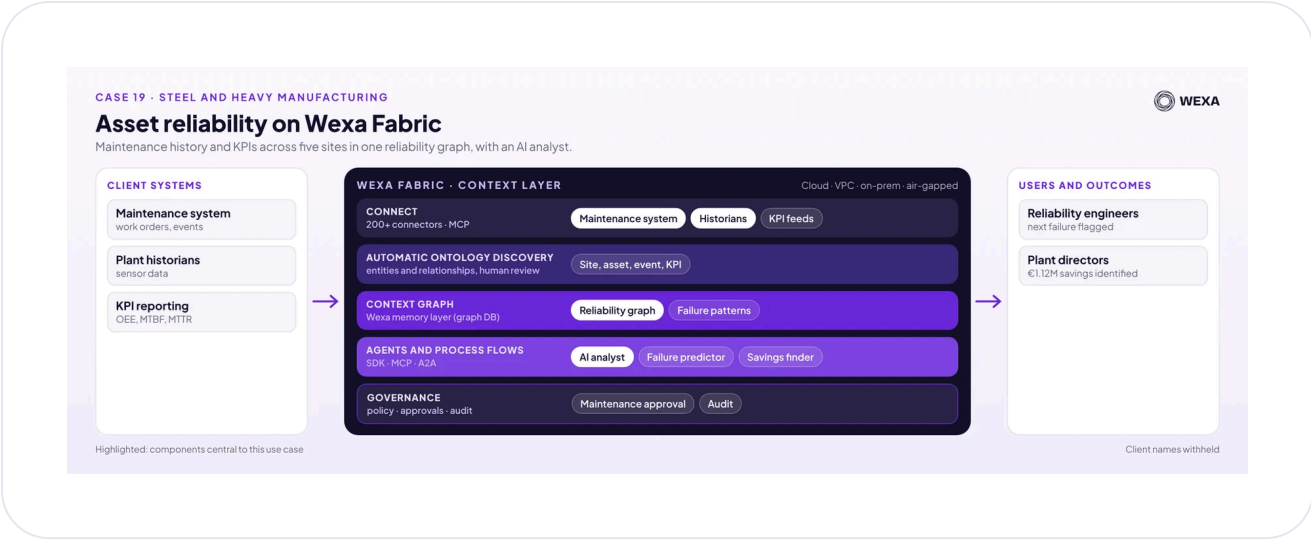


FIGURE How this use case runs on Wexa: client systems connected, ontology discovered, context graph in the Wexa memory layer, agents and process flows, and governance. Highlighted components are central to this use case.

Results

MEASURE	BEFORE / WITHOUT WEXA	WITH WEXA
Cost of unplanned downtime across 5 sites	\$4.8M a year	\$3.6M a year
Annual cost of the process	\$4.8M	\$3.6M
Time to implement the AI solution	6 months	6 weeks
AI build cost (one-time)	\$480K	\$44K
AI operating cost per year (models, infrastructure, upkeep, platform)	\$312K	\$166K

MEASURE	BEFORE / WITHOUT WEXA	WITH WEXA
Total AI cost in year 1	\$792K	\$210K

WITH WEXA

\$1M

net annual value to the client after Wexa's
own operating cost

4x

faster to implement

47%

lower AI operating cost

\$582K

less AI spend in year 1