

01 • ASSET INTEGRITY

Beyond Integrity

The AIM Agent — an agentic integrity layer

Sits on the RBI, IOW, IDMS, FFS, corrosion-monitoring and CMMS data you already own, and turns it into one explained asset health view. It reads the six pillars continuously, flags where they conflict or compound, and drafts the required intervention for approval.

SIX PILLARS

RBI · corrosion · inspection · anomalies · deferrals · barrier impairments

VALIDATED ENGINES

API 571 · API 579 · API 580/581 · API 510/570 · ASME VIII · B31.3

APPROVAL GATE

The model narrates, the engines calculate, a competent person approves. No autonomous write-back.

02 • ROTATING ASSET RELIABILITY

MotionGrid

Motion AI — from monitoring to intelligent action

Agentic AI for rotating asset reliability. Teams chat with operational data, predict failure risk, prioritise maintenance and close the loop with auditable action. MotionGrid ingests sensors, SCADA, historian, inspection data and CMMS — no rip-and-replace.

2–6 wk

typical early warning

3–12 mo

RUL forecast horizon

–20–50%

unplanned downtime

+15–40%

mean time between failures

03 • ENERGY MANAGEMENT

EnergyTwin

Plantwin — a process-aware energy twin

For refining and gas processing assets, mirroring process physics and energy dynamics in the same model. Every deviation carries a fuel, steam, power and CO₂ consequence, so ranking is commercial rather than technical opinion. Read-only and non-intrusive, fed from your existing historian.

~40%

of refining operating cost is energy

3–8%

recoverable without capital works

8–12 wk

pilot on one nominated unit

Nominate an asset, a unit or a rotating equipment set, and AVC will return a scoped pilot plan with a verification method for review.

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