

WHY IMAGEGRAFIX FOR TRANSPORTATION

Every Journey Depends on an Asset. Every Asset Deserves Intelligent Management.

The definitive guide to digitalized transportation asset management for Metros, Railways, Bullet Trains, Roads, Bridges, Tunnels, Pipelines, Aviation, and Fleet — powered by Octave Attune (formerly Hexagon EAM & APM).



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Digitalizing Your Engineering and Operations
30 Years of Excellence | Since 1996 | imagegrafix.com

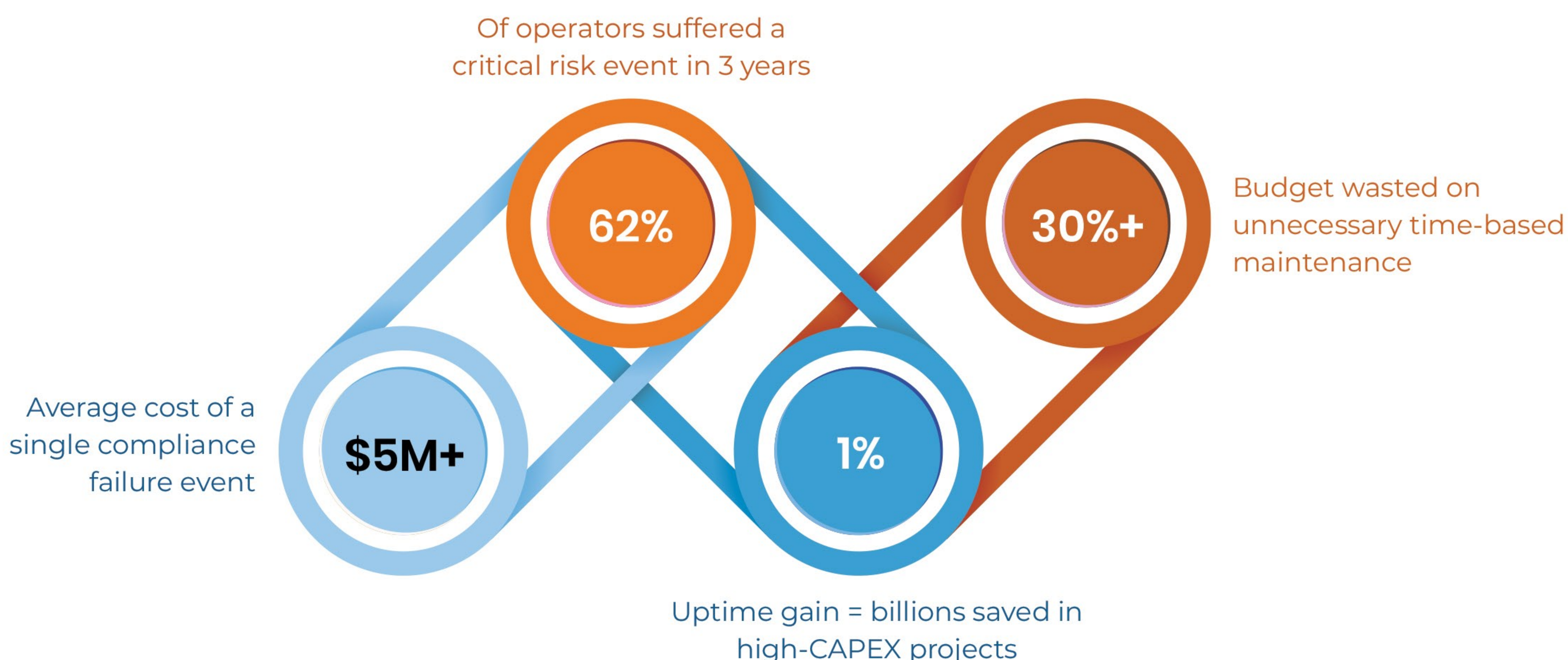


Transportation Infrastructure Is the World's Most Consequential Asset Class.

Roads carry commerce. Pipelines carry energy. Trains carry people. Bridges carry cities. When any of these assets fail, it disrupts economies, endangers lives, and triggers public scrutiny that takes years to recover from. Across APAC and the Middle East, transportation asset management remains under-digitalized. Design teams use engineering tools that never talk to maintenance systems. Maintenance teams rely on manual logs, paper permits, and tribal knowledge.

High-CAPEX. Zero Tolerance for Failure.

A 1% improvement in uptime on a major transportation asset saves billions in social and economic value. The technology to close this gap exists — the challenge is finding a partner who understands both engineering and operations, with the regional experience to deliver.





Why Most Transportation Operations Are Flying Blind

The challenge isn't a lack of investment. The gap opens the moment construction ends and operations begin — and the engineering intelligence built up over years disappears.



Design- to-Operations Handover Gap

Engineering specs and 3D models created during build phases rarely survive handover in a usable form. Maintenance teams inherit assets they've never digitally seen.



The Linear Asset Paradox

Rolling stock and fixed infrastructure have completely different maintenance rhythms — yet most legacy systems can't manage both.



Fragmented Data

Design specs, as-built drawings, maintenance logs, and SCADA data live in separate systems. When failure occurs, answers that should be instant require hours to find.



Remote Asset Gaps

Thousands of kilometers of track and hundreds of remote signaling points. Manual inspection is too slow to catch emerging faults before

The 'Frankenstein' System Problem

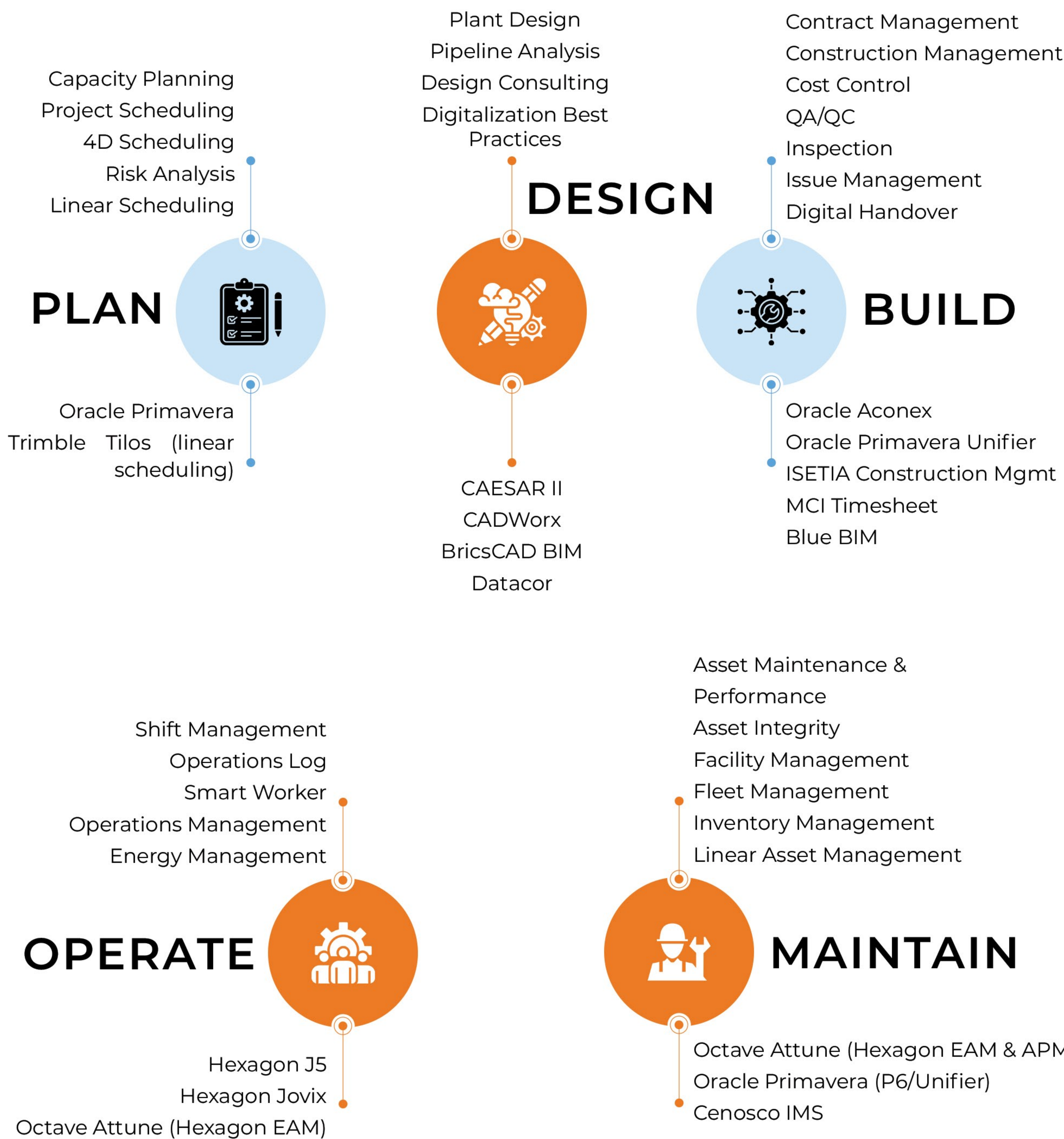


Most operators have added point solutions over time — one tool for mobile, another for sensors, paper for the rest. The result is fragmented data where assets can't talk to each other. This isn't just an IT headache. It's an operational risk that compounds every year. ”

The Full Transportation Asset Lifecycle: Business Needs & Technology

ImageGrafix’s defining capability is the Engineer-to-Operate (E2O) advantage — a continuous digital thread connecting the intelligence created during an asset’s design and build phases to the teams responsible for operating and maintaining it for decades. This is rooted in ImageGrafix’s 30-year heritage as both an engineering solutions provider (CAD, CAM, CAE, structural analysis) and an asset management specialist (EAM, APM).

Every stage of the transportation asset lifecycle — from structural engineering to predictive maintenance — is supported by a curated set of technology alliances, delivered and integrated by ImageGrafix.



ONE ASSET. EVERY PERSPECTIVE.

What Asset Intelligence Means for Every Role in Transportation

Transportation EAM decisions involve a complex buying committee. Every role has distinct pain points — and distinct gains from a unified asset intelligence strategy.



C-Suite / MD

Mega-projects delivered. But operations run blind on aging assets with no predictive intelligence.



Digitalized E2O journey. Group-level asset portfolio visibility. Competitive advantage from operational excellence.



VP / Director, Asset Management

Defending budgets with incomplete data. No unified view across rolling stock and fixed infrastructure.



Real-time dashboards. Predictable maintenance spend. A single source of truth for capital planning.



Maintenance Manager / Reliability Engineer

Firefighting failures. Manual permits. Calendar-based scheduling, not condition-based.



Work orders triggered by sensor data. Digital permits. Mobile-first execution with photo evidence.



Plant / Operations Manager

Production KPIs at risk from unplanned downtime. Safety incidents from missed preventive actions.



Condition-based scheduling. APM flags risks before incidents. ESG metrics automated.



Sustainability Leader

Manual ESG reporting. No asset-level energy or emissions data.



Automated ISO 55001 tracking. Carbon footprint per asset. Audit-ready sustainability trails in workflows.



CIO / IT Director

Fragmented OT tools, SCADA, and legacy EAM with no IT/OT convergence path.



Octave Attune as the unified backbone. Secure ERP/SCADA/MES integration. Clear digital twin roadmap.



Finance Leader

TCO spiraling from unplanned CAPEX. No visibility into asset lifecycle cost vs. replacement.



Asset lifecycle cost modeling in EAM. Maintenance-to-finance integration. ROI tracking per intervention.

Five Capabilities That Define Modern Transportation Asset Management

Condition-Based Maintenance

Stop Servicing. Start Predicting.

Deploy IoT sensors on tracks, rolling stock, bridges, and tunnels. Octave Attune ingests real-time condition data and triggers maintenance based on actual asset health — not a calendar. Result: 30%+ reduction in unplanned downtime. For high-speed rail where a single sensor failure can cascade into network-wide delays, CBM is a safety imperative.

Linear Asset Management

One Platform for Everything That Moves — and Everything That Stays.

Octave Attune's linear referencing precisely locates faults along thousands of kilometers of track, pipeline, or road using GPS coordinates. Manage rolling stock and fixed infrastructure in the same platform. This is the capability that IBM Maximo's rigid architecture and SAP PM's ERP-centric design struggle to match at scale.

APM as a Safety Engine

Move from Reactive Safety to Predictive Risk Mitigation.

Octave APM scores failure probability, automates safety permit workflows, and creates a digital audit trail replacing person-dependent logbooks. Real-time near-miss logging. Automated safety permits. Risk-Based Inspection (RBI) for highest-criticality assets. All audit-ready, all the time.

Digital Twin Integration

Connect Your 3D Engineering Models to Live Operational Data.

Your infrastructure was designed in 3D. Maintenance teams shouldn't work from 2D PDFs. ImageGrafix connects GT STRUDL, CAESAR II, and CADWorx to Octave Attune — so maintenance teams see the actual structural model of a bridge or the 3D layout of a station depot when executing a work order.

Mobile-First Field Operations

Your Technicians Work in the Field. Your EAM Should Too.

Native mobile capabilities bring the full power of Octave Attune to remote track sections, tunnels, and airport tarmacs. Tag-scan work orders. Photo evidence capture. Real-time inventory updates. No stable connectivity required. IDC 2025 ranks Octave in the highest group for interface usability and mobile accessibility.

Why Leading Transportation Organizations Choose ImageGrafix

You're not just choosing a software implementation vendor. You're choosing a partner accountable for the reliability of your infrastructure for years — possibly decades.

30 Years of Regional Expertise

Since 1996, ImageGrafix has built deep domain expertise across APAC and the Middle East. We understand local railway safety standards, international high-speed rail protocols, and the regulatory environments of India, UAE, and KSA.

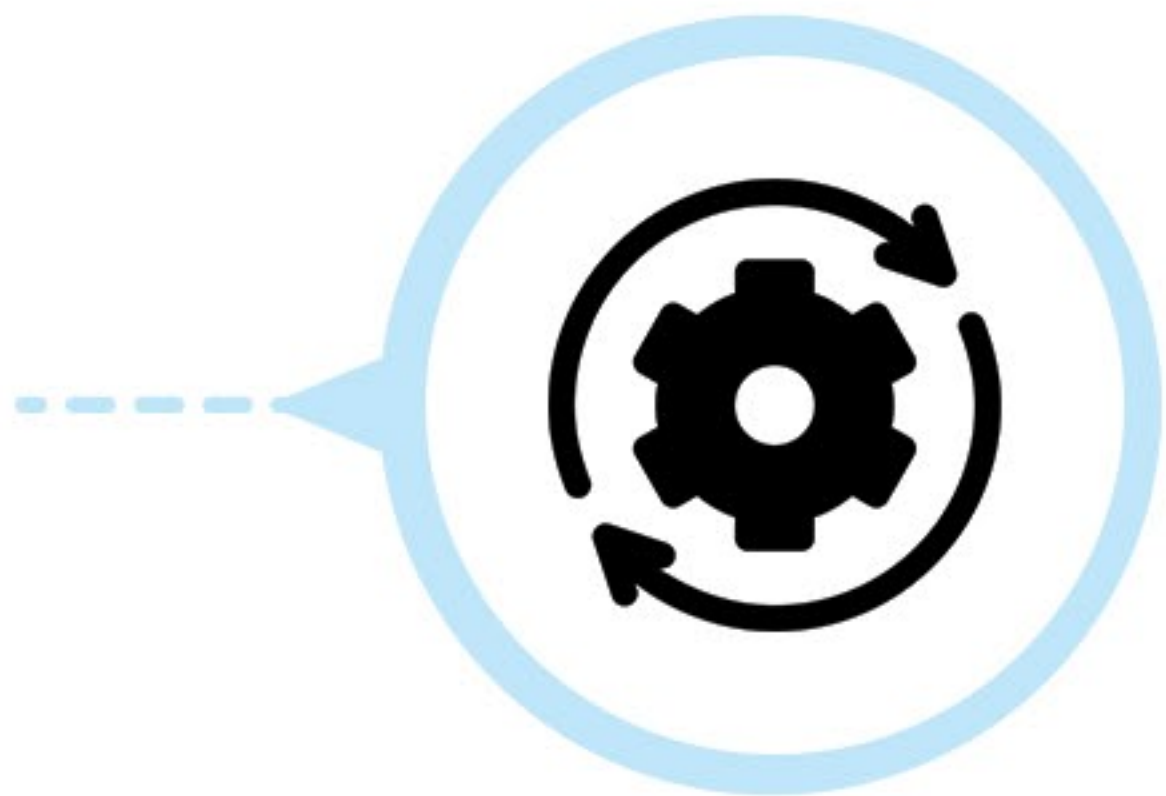
6,000+ customers | 10+ industries | 15 regional offices



Engineer-to-Operate (E2O) Differentiation

We are the only partner in the region with a genuine end-to-end E2O capability — connecting CAD, structural analysis, and GIS tools to EAM and APM. No ERP-native or generic EAM implementer can match this.

From the 3D model to the work order — in one integrated journey.



Proven Implementation Speed

We have delivered 7-day migration sprints on live critical infrastructure — a benchmark described as 'history in the industry' by a Group CTO. High-CAPEX projects demand speed and zero operational disruption.

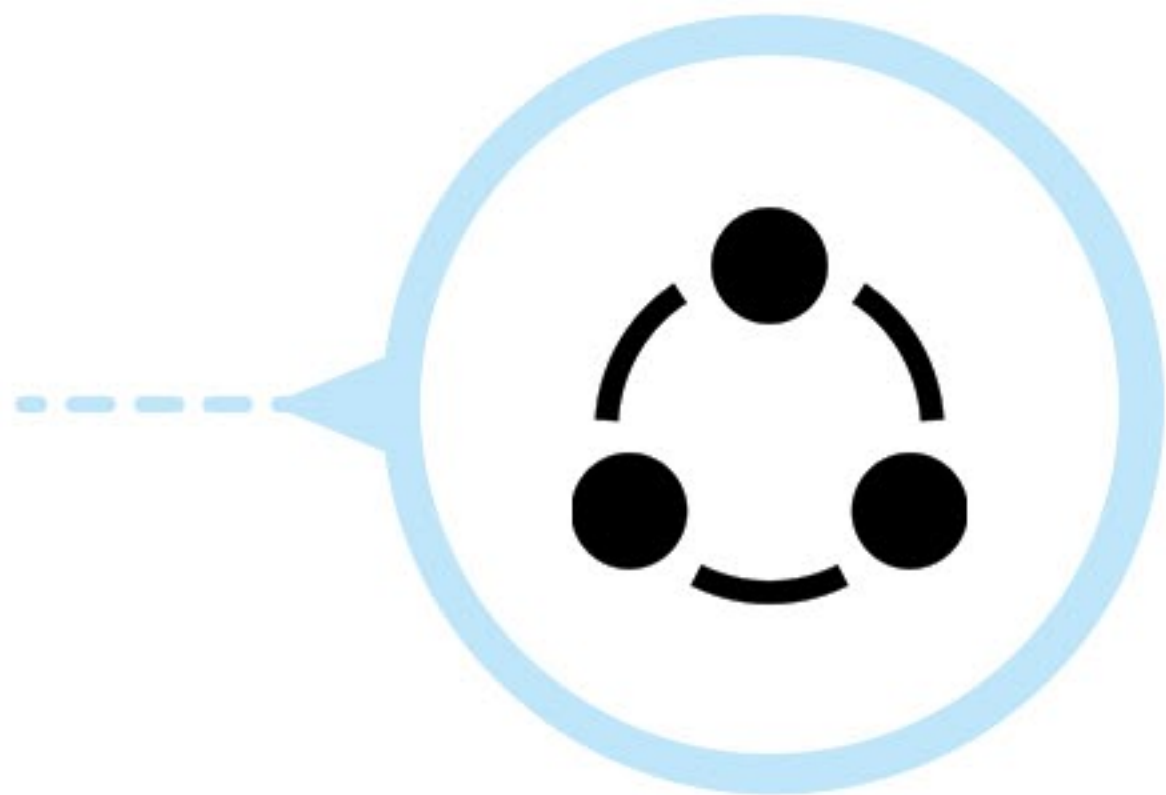
9/10 NPS | 7-day EAM cutover | 1,000+ assets migrated



90%+ Client Retention

We don't implement and leave. We stay engaged through upgrades, expansion, and maturity curve progression — ensuring asset uptime long after competitors' consultants have moved on.

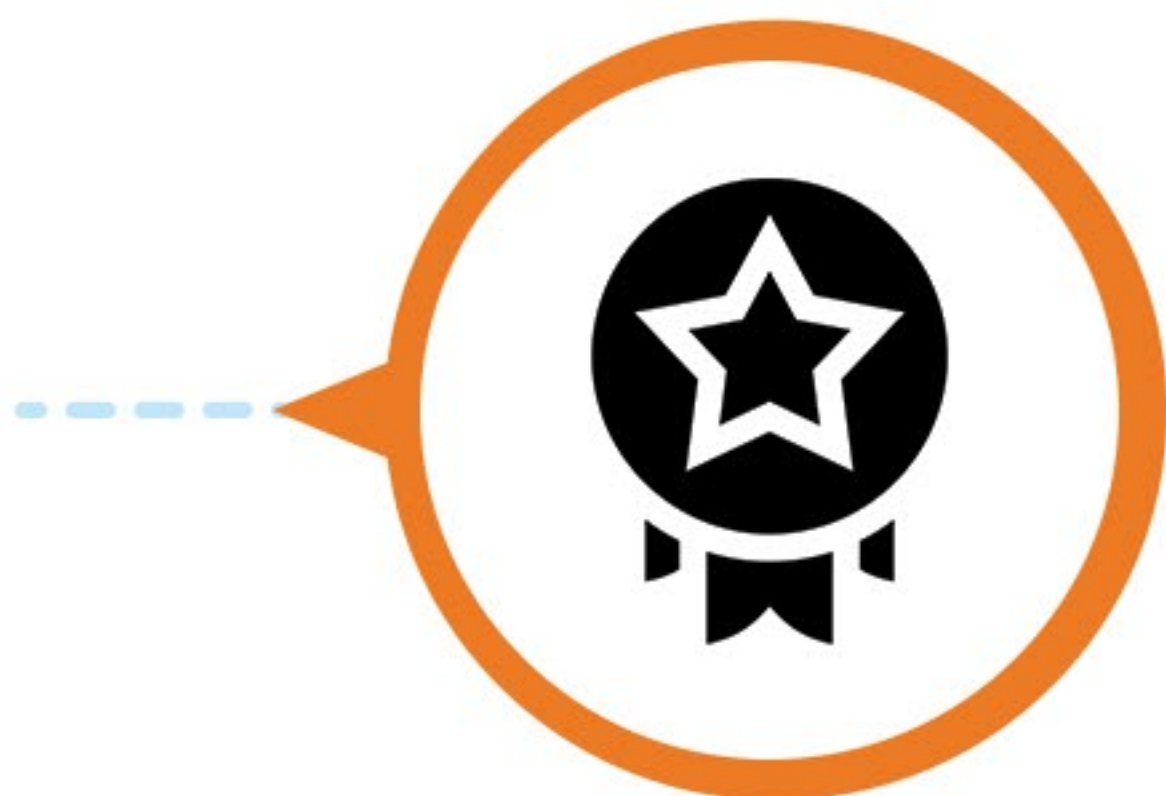
A partner for the lifecycle — not just the deployment.



Award-Winning People

Our 200+ expert employees are regularly recognized as a 'Best Place to Work'. The people who implement your system are domain experts who care deeply about outcomes.

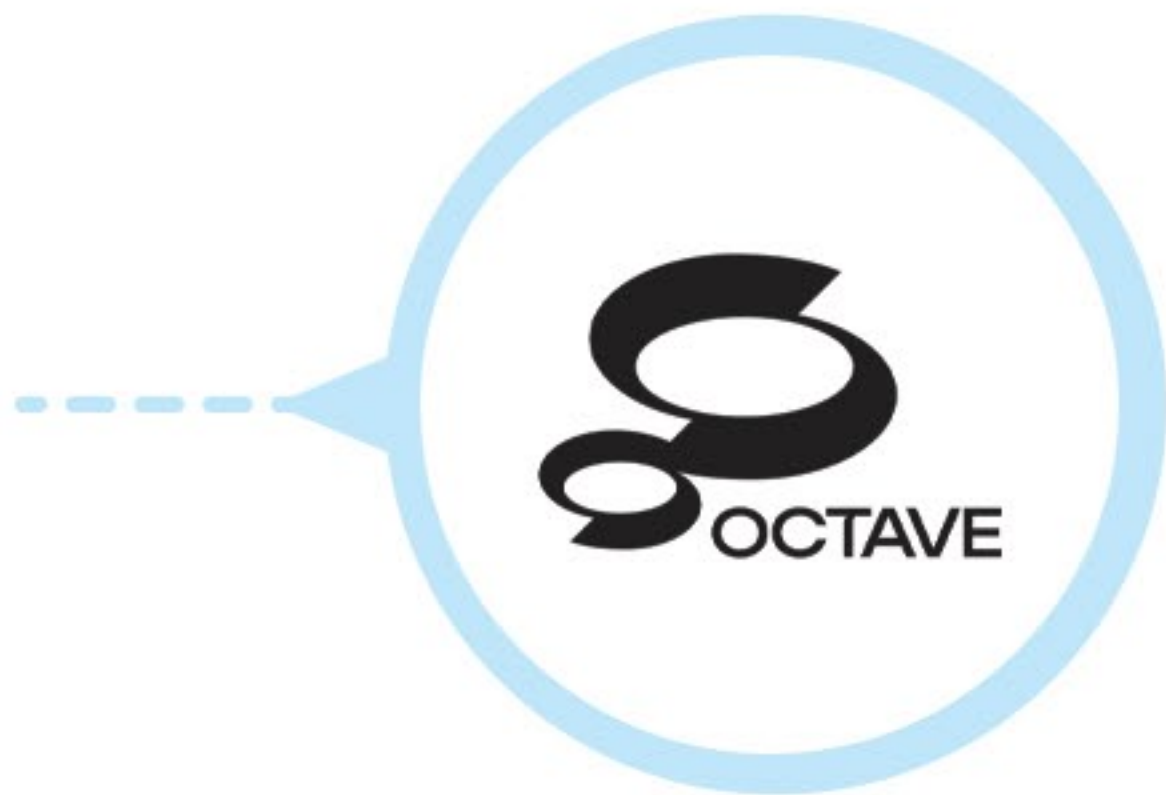
200+ experts | Best Place to Work recognized



Octave: A Recognized Industry Leader

Octave (formerly Hexagon) is a Leader in the IDC MarketScape for AI-Enabled EAM 2025-2026 and holds top scores in the Verdantix Green Quadrant 2024 for business intelligence, data management, and platform interoperability.

IDC MarketScape Leader | Verdantix Green Quadrant Leader



30 Years of Digital Transformation Excellence & People-First Culture

Headquartered in JAFZA, Dubai, we digitalize engineering and operations for the region's most critical industries. We combine decades of engineering design and project management heritage with the next generation of connected asset technology, including AI, AR, and IIoT.

A structured diagnostic that maps your current state and defines your path to predictive, connected asset intelligence



Schedule Your Free Asset Data Maturity Assessment

Let our experts identify the gaps in your digital thread and provide a roadmap for 100% uptime.



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15 Offices across Middle East & APAC

