

AI Products & Services

Enterprises are sitting on more data and AI ambition than they can operationalize video data goes largely unused, and institutional knowledge sits scattered across systems, drifting further from reality with every release cycle. Forar Tech closes that gap through two independent, proprietary platforms, SPECTRA for video intelligence and SENTRA for enterprise intelligence, backed by full-stack Gen AI engineering and productized use cases like SmartHub.

FLAGSHIP PRODUCT 01 • VIDEO INTELLIGENCE

SPECTRA

A Gen AI video intelligence platform delivering near real-time incident detection, natural language Q&A on footage, and severity mapped alerts across hundreds of cameras.

- **Near real-time detection:** across 100s of camera feeds simultaneously
- **Natural language search:** ask footage a question, get an answer
- **Severity mapped alerting:** routes the right incident to the right team
- **Enterprise correlation:** cross-camera de-duplication reduces false positives at scale
- **Deployed across manufacturing, retail, transportation, healthcare, and smart cities**

100s

CAMERAS / DEPLOYMENT

5

VERTICALS LIVE

KEY DIFFERENTIATORS

01 Proprietary IP, not integrations

SPECTRA and SENTRA are ai-built, patent-pending platforms, not repackaged open source tooling stitched together.

03 Proven, quantifiable outcomes

60%+ reduction in review cycle time, 95%+ false positive reduction, and 99% document processing accuracy in production.

END-TO-END AI SERVICES

BUILD & MODEL

- Custom model development
- Conversational AI & small language models
- RAG & vector databases

FLAGSHIP PRODUCT 02 • ENTERPRISE INTELLIGENCE

SENTRA

Smart Enterprise Neural Transformation & Reasoning Agents: an agentic AI platform combining advanced RAG, knowledge graphs, a conversational interface, and persistent enterprise memory.

- **Advanced RAG engine:** grounded in governed enterprise sources
- **Persistent memory:** compounds knowledge over time, not per session
- **Autonomous agents:** act on data, not just answer questions
- **Governed access:** aligns with enterprise security and compliance requirements
- **Built for knowledge management, document analysis, compliance, and decision support**

99%

DOC PROCESSING ACCURACY

1,000+

USERS, ANCHOR DEPLOYMENT

02 Agentic, not just generative

Autonomous agents act independently on video footage and enterprise data, reviewing and flagging issues rather than only answering questions.

04 Full stack AI engineering

From custom model development to MLOps, the platforms are backed by the services needed to deploy and run them at scale.

OPERATE & SCALE

- Intelligent agents & content summarization
- BI & visualization
- MLOps / AI engineering

SPECTRA — A Closer Look

SPECTRA is an Agentic Vision Fabric: an intelligence layer that fuses video with external signals (voice, weather, crime, demographics, IoT and operations data) to connect the dots, predict risk and automate preventive action. A unified surveillance platform built on advanced Large Language Models and proprietary, patent-pending technology, it delivers near real-time incident detection, human-like understanding of scenes, actionable insights and conversational interaction with video footage.

WHY IT'S TIME TO RETHINK SURVEILLANCE

1.5B+

HOURS OF CCTV FOOTAGE GENERATED DAILY

98%

OF THAT FOOTAGE IS NEVER REVIEWED

95%

OF INCIDENTS MISSED AFTER 22 MINUTES OF MANUAL MONITORING

100s

OF CAMERAS PER DEPLOYMENT, ANY EXISTING INFRASTRUCTURE

Most AI surveillance systems still rely on motion detection and rule-based triggers that lack contextual awareness — leaving the safety gaps that matter most.

KEY CAPABILITIES

- 01

Object detection & tracking
Detects and tracks people, vehicles and objects in real time to sharpen situational awareness.
- 02

Contextual intelligence
Understands scene context — who, what, where and why — for accurate threat interpretation and event summarization.
- 03

Connected intelligence
Links siloed cameras and systems into a unified network, enabling shared intelligence and multi-camera event correlation.
- 04

Automated agentic workflows
Automates repetitive surveillance tasks, freeing human operators for critical decisions.
- 05

Conversational interface
Just ask, and SPECTRA answers — transforming how teams interact with surveillance footage.
- 06

Unified platform for video insights
Centralizes all video data into a single dashboard with near real-time insights, analytics and access across devices.

WHY CHOOSE SPECTRA

Human-like understanding
Analyzes footage with a level of understanding that closely mimics human cognition.

AI-powered incident investigation
Natural-language queries and instant, clear summaries cut investigation time significantly.

Camera agnostic
Deploys over any and all existing camera infrastructure.

Scalable & API-ready
Supports 100s of cameras with modular, easy integration.

Map-based alerts
Visual alerts, prioritized by severity, highlighted on a site map.

Flexible deployment
Runs on the cloud or on-prem, whichever the site requires.

SPOTLIGHT | SPECTRA

SPECTRA for the Manufacturing Sector

Continuous monitoring of shopfloor safety, hazardous-area access, and compliance across plants and facilities; cutting incident response time and manual monitoring overhead.

- Ensure worker safety by monitoring compliance with safety protocols.
- Monitor hazardous areas to restrict unauthorized entry and access.
- Near real-time incident detection, emergency response, and evacuation.

01 • WATCH

Monitor
Near real-time monitoring across 100s of camera feeds simultaneously.

02 • DETECT

Detect
AI-powered detection of accidents, safety violations, and unauthorized access.

03 • ASK

Query
Natural-language Q&A on any footage; just ask, and SPECTRA answers.

04 • ALERT

Act
Severity-mapped alerts routed to the right team for faster response.

SENTRA — A Closer Look

SENTRA is an enterprise knowledge platform that indexes, connects and activates SAP, Salesforce, Databricks and data from many other enterprise sources through AI. Built on the cloud with enterprise-grade security, it delivers organizational intelligence without sacrificing speed or accuracy: every SAP record, Salesforce order and database instantly connected and queryable.

THE QUESTIONS SENTRA ANSWERS

Your enterprise applications have the answers. One platform, multiple data sources; all queryable in seconds.

FINANCE & SPEND

Budget vs. actuals

Spend vs. approved budget by cost centre

Order-to-invoice gap

Salesforce orders not yet invoiced; revenue-leakage exposure

VENDOR & PROCUREMENT

Duplicate payments

Duplicate vendor invoices across the last 60 days

Unapproved POs

Overdue, no goods receipt — invoice exposure value

COMPLIANCE & AUDIT

Drift check

Process documents out of sync, by transport count

Auto-rewrite

Redlined PDD from every transport since Q1

CHANGE & MIGRATION

Root cause

Order errors vs. transports moved that day

Migration scope

Objects safe to retire vs. needing work

ASK IT THE WAY YOU'D ASK AN ANALYST

“If I cut OpEx 10%, which cost centres have the most suppliers, and which Salesforce deals are most at risk?”

“Which Salesforce deals closed last quarter have no invoice, and what is the total revenue leakage?”

This is agentic reasoning: SENTRA pulls history, status and signals simultaneously — no analyst, no waiting.

KEY CAPABILITIES

- 01 Ask anything, in plain English**

One question spans SAP configuration, documents and transaction history; every answer is cited with evidence at source.
- 02 Living knowledge graph**

A map of how every transaction, document, process step and owner links — built and kept current automatically from live data.
- 03 Governed semantic layer**

Metrics such as DSO, AP aging and win rate are defined once and used by every agent; agents never touch raw field names.
- 04 Autonomous domain agents**

Agents that review and rewrite process documents, or clear blocked orders across the flow — unattended, with an audit trail.
- 05 Memory that survives sessions**

Facts learned on Monday are available on Tuesday; live task lists and checkpoints mean interrupted work is never lost.
- 06 Personas & skills per role**

Tailored personas from the C-suite to the process analyst, configured without code changes.

WHY CHOOSE SENTRA

Your data, governed

A knowledge graph over SAP, Salesforce and Databricks with RBAC, PII controls and data-access rules built in.

Cost control by design

Five built-in mechanisms — caching, summarisation, on-demand skills — cut run cost by 75–80%.

Agentic, not single-turn

26+ plug-and-play tools, micro-agents, persistent memory and resumable plans that act on data.

Enterprise-grade security

Azure AD / Entra SSO and RBAC, Key Vault secrets management and private virtual networks.

Live now, fast to deploy

An 8-week pilot with no enterprise licence, no data migration and no vendor lock-in.

Open, AI-ready architecture

Interchangeable LLMs and an MCP plug-in layer your EA team can review — not a black box.

SPOTLIGHT | BUILT ON SENTRA

SmartHub: SENTRA for the ERP estate

A flagship ERP use case: a Semantic Layer, Knowledge Graph, Chat Agent, and autonomous PDD Agent that index and validate SAP / ERP documentation, closing the gap between what the system does and what the documentation says it does.

01 • LAYER Semantic Layer A shared business meaning across raw ERP tables and process data	02 • MAP Knowledge Graph Connects processes, documents, and system objects into one map	03 • ASK Chat Agent Conversational access to process and documentation knowledge	04 • ACT PDD Agent Autonomously reviews and flags documentation drift; acts, not just answers
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Detailed Use Cases for the Manufacturing Sector

Annexure A · SPECTRA - Safety Vigilance Across Every Site Annexure B · SENTRA - The Manufacturing Copilot

ANNEXURE A · SPECTRA - USE CASES

SPECTRA

Safety Vigilance Across Every Site

Prepared for the Manufacturing Sector · September 2026

A manufacturer's operations generate answers faster than they generate certainty about where those answers live. A maintenance backlog, a PPE violation, an unauthorized entry — each sits in a different camera feed, on a different site, under a different rule set. This document goes deeper than a summary of features: it lays out SPECTRA as a continuous, regulation-aware vigilance layer — not a checklist, but a system that watches for the precursor as closely as the incident.

PPE, OSHA/MSHA Compliance & Continuous Vigilance

Two regulatory regimes typically apply across a manufacturer's footprint: OSHA-aligned practice in the US, with MSHA (Mine Safety and Health Administration) wherever mining or extraction operations are involved; and ISO 45001 with local occupational health law elsewhere — together governing processing, power generation and dispatch operations. SPECTRA's underlying vision of AI doesn't change between sites; only the rule set per zone does.

WHY VIGILANCE, NOT JUST CHECKLISTS

Industry data cited in SPECTRA's own briefing: over 1.5 billion hours of CCTV footage are generated daily, 98% of it is never reviewed, and 95% of incidents go unnoticed after just 22 minutes of manual monitoring, due to fatigue and attention loss. A checklist audit catches what was true now someone looked. Continuous vision AI is built for the other 21 hours and 38 minutes.

PPE detection, by zone and role

PPE ITEM	WHERE IT'S ENFORCED	WHAT IT CATCHES
Hard hats / bump caps	All production, storage and yard zones	Anyone entering a marked zone without head protection.
Hi-visibility clothing	Haul roads, yard traffic, conveyor walkways	Reduces the leading industrial hazard: vehicle/pedestrian incidents.
Respiratory protection	Areas with airborne fine powder (process powders and dust)	Confirms respirator use wherever combustible or respirable dust is present.
Safety glasses / goggles	Chemical handling and processing units	Flags missing eye protection at fixed handling points.
Hearing protection	Turbine halls, compressor rooms, heavy machinery bays	Confirms compliance in defined high-noise zones.
Fall-arrest harnesses	Loading gantries, conveyor structures, tank tops	Detects work at height without a visible tie-off point.
Emergency escape equipment	Personnel entering confined or high-risk zones	Confirms that every worker carries the required emergency equipment before entry.

Procedural and regulatory compliance

PROCEDURE	WHERE IT APPLIES	WHAT IT CATCHES
Lockout-tagout (LOTO) verification	Maintenance on de-energized equipment	Confirms locks and tags are visibly applied before work starts — not just logged on paper.
Confined-space entry protocol	Tanks, silos, process vessels	Verifies a permit, attendant, and monitoring equipment are present at the point of entry.
Hot work near combustible dust	Welding or cutting near fine powder accumulation	Flags hot-work activity where visible dust buildup creates an explosion risk — a known hazard in mineral powder handling.

PROCEDURE	WHERE IT APPLIES	WHAT IT CATCHES
Machine guarding	Conveyors, crushers, rotating equipment	Confirms guards are in place, not removed for “quick access.”
Powered haulage / pedestrian separation	Haul roads, loading yards	Monitors for pedestrians in active vehicle paths — the most-cited hazard category in heavy industry.
Housekeeping / dust accumulation	Ledges and structural surfaces near processing units	Tracks dust buildup visually over time as an early warning before it becomes a combustible dust incident.

Vigilance and behavior-based safety

This is the layer beyond compliance snapshots — continuous pattern-watching for the precursor, not just the rule of violation.

FOCUS AREA	WHERE IT APPLIES	WHAT IT CATCHES
Control-room operator alertness	Plant and utility control rooms running 24/7	Signs of fatigue or attention loss during long monitoring shifts — the exact failure mode manual CCTV review suffers from.
Unsafe-act detection	Phone use near moving machinery, bypassed barriers, unsafe lifting	Catches the behaviour before it becomes the incident, not after.
Near-miss pattern detection	Recurring close calls at the same conveyor transfer point or crossing	Surfaces a hotspot for an engineering fix before it produces an injury.
Loitering / unauthorized presence	Remote and multi-site plants, off-hours	Extends effective security coverage without expanding guard headcount.
Tailgating at access points	Badge-controlled entries to restricted zones	Flags a second person entering one person's credentials.
Lone-worker / man-down detection	Remote areas of large plant sites	Detects a worker down or motionless for an abnormal period and triggers an alert automatically.
Contractor & visitor compliance	Third-party crews on site for turnarounds or capital projects	Confirms visiting contractors follow the same PPE and zone rules as permanent employees.

SENTRA

The Manufacturing Copilot

Prepared for the Manufacturing Sector • September 2026

A manufacturer's operations generate answers faster than they generate certainty about where those answers live. A delivery status update, a certificate of expiry, a maintenance backlog — each sits in a different system or a different document. This document goes deeper than a summary of features: it lays out SENTRA as a true “ask anything” copilot across every system and document the enterprise holds.

SENTRA as the Manufacturing Copilot

A single conversational interface, grounded in every connected source — SAP, Databricks, Salesforce, and every PDF, contract, certificate and report the enterprise holds. Anyone authorized asks a plain-language question and gets a cited answer back, regardless of which system or document holds it.

What the Copilot reads

The value of a copilot is set by what it can see. The answer set spans structured transactional systems and years of unstructured documents — both are in scope from day one.

SOURCE	WHAT IT HOLDS	SAMPLE QUESTION IT CAN NOW ANSWER
SAP (Finance, MM, SD, PP)	Purchase orders, invoices, goods receipts, cost centres, production orders	“Which POs for plant equipment are open past their expected delivery date?”
Databricks / data lake	Production telemetry, shipment tracking feeds, sensor logs, ML feature tables	“How does this week’s plant output compare to the same week last quarter?”
Salesforce	Customer orders, opportunities, accounts, delivery commitments	“Which customer orders placed this month haven't been scheduled for shipment yet?”
Certificates & compliance PDFs	Certificates of Analysis, ISO and product certifications, REACH dossiers, SDS	“Pull the current Certificate of Analysis for the last batch shipped to this customer.”
Contracts & commercial documents	Customer and vendor contracts, pricing schedules, Incoterms, renewal clauses	“Which vendor contracts renew next quarter and haven't been reviewed?”
Shipping & customs documents	Bills of lading, vessel manifests, certificates of origin, import paperwork	“Is any shipment loading this week missing its certificate of origin?”
Inspection, audit & maintenance records	Internal/external safety audits, insurance surveys, equipment maintenance logs	“What did the last third-party safety audit at the main plant flag as open items?”
Investor & governance materials	Board decks, rating-agency reports, bond disclosures	“Summarize every mention of acquisition integration risk from the last two board packs.”

Delivery and logistics intelligence, end to end

This is the everyday question every manufacturer asks most often, in one form or another: what is the status of this shipment, right now, and why. Today that means knowing which of several systems tracks which leg. The copilot removes that step entirely.

USE CASE	EXAMPLE QUESTION	WHY IT MATTERS
Live shipment status, any leg	“Has today’s export shipment finished loading, and is it on schedule to depart?”	Answered instantly instead of a call to the logistics team.
Delivery exception detection	“Which export shipments are delayed this week, and why?”	Surfaces the actual cause — customs hold, missing document, vessel delay — in one query.
Order-to-delivery-to-invoice loop	“Which orders from last month are delivered but not yet invoiced?”	Closes the revenue-leakage gap without manual three-system reconciliation.
Document-triggered delivery holds	“Is any shipment held up because its REACH or certificate of origin paperwork is missing?”	Connects document intelligence directly to logistics status.
Multi-modal shipment tracking	“Where is order #8834, and which mode is it moving on — sea, rail or road?”	One question spans all three shipment modes without knowing which system tracks which.

One copilot, every role's own questions

The same underlying knowledge graph, scoped differently per person — each gets the questions relevant to their job, asked in their own words.

ROLE	QUESTION THEY ASK	WHAT THEY GET BACK
Plant Manager	“What maintenance is overdue on the process pumps, and could it affect this week’s output target?”	A direct answer to linking maintenance backlog to production risk.
Export & Logistics Coordinator	“Which shipments are loading right now, and is anything missing a certificate of origin?”	Real-time dispatch status without a phone call.
QA / Regulatory Manager	“List every product certification expiring in the next 90 days, across all product grades.”	One list spanning industrial, food-grade and regulatory certifications.
Procurement Lead	“Show me every open PO with a vendor whose ISO certificate has lapsed.”	Compliance risk surfaced inside a procurement workflow, not after the fact.
HR / Safety Manager	“How many safety inspections are overdue at the plant right now?”	A live count instead of a quarterly manual audit.
Investor Relations	“Pull every reference to acquisition integration risk from the last two quarters of board and rating-agency materials.”	A cited summary in minutes, not a research afternoon.
CFO / COO	Cash, FX exposure, vendor risk and fulfilment performance across all entities.	Covered in the companion CFO/COO executive brief — this copilot layer is what sits underneath it.

WHY FORAR TECH

AI is one part of an end-to-end manufacturing value chain spanning Engineering (CAD/CAE/PLM) through IT (ERP, IoT, data warehousing) to AI: capturing shopfloor signal, warehousing it, and applying AI across machinery, shopfloor, and business layers for a complete design-to-decision cycle. A talent-first delivery model keeps attrition well below India IT-industry norms, and the majority of Forar Tech’s clients are referenceable.

CONTACT

Unmesh Mishra · Partner & SVP, Sales · unmesh.mishra@forartech.com · www.forartech.com