



INDUSTRY 4.0 PLAYBOOK

20 Solutions for the Connected, Predictive Plant.

A practical guide to the Industrial IoT, AI, and automation solutions reshaping manufacturing — organized around the six questions every plant manager already asks.

IIIoT INFOTECH · BUILDING CONNECTED SUSTAINABLE ECOSYSTEMS

A CMMI Level 3 partner, not a point-solution vendor

IIOT Infotech is an ISO 9001:2015-certified, NASSCOM-member Industry 4.0 company delivering Industrial IoT, AI & Analytics, Automation, and Digital Twin solutions to enterprise clients across manufacturing, logistics, energy, and transportation.

20+

INDUSTRY 4.0 SOLUTIONS

50+

ENTERPRISE CLIENTS

3

GLOBAL OFFICES

L3

CMMI CERTIFIED

This guide organizes our full solution set around the **6M Framework** — Man, Machine, Material, Method, Mother Nature, and Measurement — the same six categories a plant manager is already thinking in, whether they call it that or not. Each chapter covers one category, the solutions in it, and the numbers clients have seen after deployment.

Use it as a menu, not a mandate. Most clients start with one solution solving one visible problem — a downtime issue, a compliance gap, a traceability audit — and expand once the platform proves itself on their floor.

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Track, train & upskill the workforce

Four solutions that answer one question: is your workforce trained, present, and safe?

iProximity Sense — Manpower Tracking

Real-time indoor location tracking via BLE + LoRaWAN, with soft and hard geofencing, SOS alerts, and full-facility emergency muster.

4-minute emergency muster • 1,400+ workers per site

VR / AR / XR Training & Remote Assistance

Immersive, zero-risk safety and operational training, plus AR-guided remote expert assistance overlaid on real equipment.

70% less training time • 60% fewer errors

Operator Compliance & Training Management

QR-coded ID verification of every operator's training status, license validity, and authorizations — checked in seconds, not a paper log.

Under 10-second compliance check

RAG-Based Industrial Knowledge Base

Retrieval-Augmented Generation turns SOPs, manuals, and compliance docs into a searchable AI brain that always cites its source — never hallucinated.

Milliseconds to search years of documentation

Connect, maintain & optimize every asset

From shop-floor machines to the vehicles that leave the plant.

Veda Industrial IoT Platform

Real-time machine connectivity, OEE analytics, and edge intelligence across OPC-UA, MQTT, Modbus, CAN, and RS485 — without replacing existing SCADA or PLCs.

99.5% uptime · up to 50% OEE improvement

Smart CMMS with Quality Control

AI/ML anomaly detection predicts failures 2-4 weeks ahead, auto-creates work orders, and closes the loop from sensor to technician to KPI dashboard.

30-40% downtime reduction · 3x maintenance efficiency

Fleet & Transportation Management

GPS telematics, AI driver-behavior scoring, fuel intelligence, and predictive maintenance across owned and contractor fleets on one platform.

40% fuel cost reduction · 35% fewer accidents

AI for the Automobile Industry

Purpose-built IIoT, AI vision, and traceability for automotive plants — inline defect detection and IATF 16949-ready lineage from raw material to VIN.

97%+ defect detection accuracy

See and trace material end-to-end

From the loading dock to the finished pallet.

Material Traceability Platform

Full raw-material-to-finished-goods lot genealogy — supplier, batch, machine, operator, and quality status linked at every stage.

Under 30 minutes to identify a recall's full scope

Smart Warehouse Management

IoT and video-analytics-powered WMS with bin-level inventory, FEFO enforcement, video-verified loading, and cold chain compliance.

99.2% inventory accuracy · 70% less dock-to-stock time

Why it matters: most manufacturers can tell you what's in a warehouse today. Very few can tell you, in under 30 minutes, exactly which customer shipments contain a single suspect batch. That gap is where recall costs — and reputational damage — get made.

Standardize how work actually gets done

Process, workflow, finance, and the newest addition to the stack: conversational AI.

MES — Manufacturing Execution System

Production planning, scheduling, and real-time WIP visibility — with dynamic rescheduling the moment a machine goes down.

25-40% OEE gain • 30% schedule adherence improvement

i-ARM / i-SRM — Financial Platforms

ML-based payment prediction and automated dunning for receivables; digital onboarding and scorecards for suppliers.

40% reduction in Days Sales Outstanding

Smart Forms & Workflow Designer

No-code, drag-and-drop forms with conditional logic and SLA-tracked approvals — digitize any paper process in hours, not months.

70% fewer paper forms • 3x faster approvals

Vartalap — GenAI Conversation Platform

Ask your factory data questions in plain English or Hindi — voice or text — and get a source-cited answer connected across IIoT, MES, and ERP.

Under 1-second response • 10+ Indian languages

Protect people, energy & environment

Safety and sustainability, from sensors to a live executive command centre.

Energy Management Platform

Real-time sub-metering, power quality monitoring, demand forecasting, and ESG/carbon reporting via IoT sensors.

25% average energy cost reduction

Video Analytics — HSE Safety

24/7 AI monitoring for PPE compliance, restricted-zone intrusion, fire/smoke detection, and fall detection with instant supervisor alerts.

95%+ PPE detection accuracy • alerts in under 2 seconds

HSE Command Centre — Agentic AI

Six always-on AI agents covering people safety, permits, incidents, environment, asset safety, and predictive risk — replacing 12 separate dashboards with one live Zero Harm Index.

30-day incident-probability forecasting

Measure quality & performance in real time

From the assembly line to the boardroom.

Video Analytics — Quality Inspection

100% inline AI inspection for defects, welds, labels, and assembly correctness — replacing statistical sampling entirely.

97%+ defect detection · 60% inspection cost savings

Poka-Yoke MES/IIoT Platform

Locks the next assembly station until sequence, part-match, torque, and vision checks all pass — zero defect escape, full VIN-linked genealogy.

Zero defect escape from station · IATF 16949-ready

CEO Intelligence Dashboard — Agentic AI

Six AI agents — Operations, Finance, Safety, Logistics, Approvals, Actions — unify every manufacturing decision signal into one real-time command centre.

Data latency cut from 8-24 hours to under 2 seconds

Why industry leaders choose IIOT

Six reasons clients trust us with mission-critical deployments.

ONE STACK

Full product suite, owned end to end

IIoT, AI, MES, Traceability, Fleet, WMS — no third-party stitching required.

CO-CREATE

Your problem is our roadmap

Agile sprint model with 4-week MVP deployments — working software, fast.

GLOBAL

Local support, global platform

India HQ plus UAE and Canada offices, backed by 24×7 hypercare SLA.

CMMI L3

Process maturity you can audit

Predictable delivery, documentation, and quality assurance on every engagement.

PROVEN ROI

Quantified outcomes, every time

40% downtime reduction, 25% OEE gain, 35% fewer accidents — reported, not promised.

INNOVATE

R&D that keeps you ahead

AI, digital twin, XR, and edge computing — continuously, not as a one-off project.

CHAPTER 08

Global presence, real clients

One platform, deployed across continents and industries.

INDIA — HQ

7th Floor, Space Boulevard, 710-712,
Badshahpur Sohna Rd, Malibu Towne,
Sector 47, Gurugram, Haryana 122018

UAE

SM Office, E1-1416,
Free Zone, Ajman FZE

CANADA

186 Finch Ave E,
Toronto, ON, M2N 4R9

A SAMPLE OF THE INDUSTRIES WE SERVE

Automotive Component Manufacturing · Elevators & Vertical Transportation · Warehousing & Logistics · Telecommunications ·
Fastener Manufacturing · Energy & Utilities · Aviation Infrastructure · Hospitality & Real Estate



NEXT STEPS

Ready to see what a connected plant looks like?

Four steps from first conversation to a tailored implementation roadmap
— no long procurement cycle required to see real results.

1. Technical Deep Dive (30 min)

Your IT/OT architects meet our solution engineers for a plant-specific architecture walkthrough.

2. No-Cost Proof of Concept

A 2-week POC on one production line — real connectivity, real OEE calculation, real AI output.

3. Joint Business Case Workshop

Half-day session to co-create an ROI model using your actual production and cost data.

4. Tailored Proposal & Roadmap

A customized, module-by-module implementation plan and commercial structure.

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