



# TechnoViz

A U T O M A T I O N

Connect ■ Visualize ■ Analyze



Technoviz Automation Solutions Pvt. Ltd.

# INDEX

About us	03
The Founder	04
Our Services	05
Our Products:	
- VisionAI	06
- Digital CheckSheets	08
- SmartEMS	10
- OEE Dashboard	12
- ImmersiX	14
- Utility 360	16
Why Choose us?	18
What we do?	18
CIO Certificate	18
Our Solutions	19

## What We Believe

Technoviz Automation strongly believes in Industry 4.0 and has invested in building expertise and capability to help clients achieve their goals in a timely and cost-effective manner, our offering is aligned with the fulfilment of the requirement as per Industry 4.0

# About Technoviz Automation Solutions Pvt. Ltd.

Technoviz Automation Solutions is a technology firm providing software & Industrial Automation Solutions. We have a deep focus on creating Smart Operations by leveraging technologies like the Internet of Things (IoT) and Internet of Services (Cloud) along with complete connectivity solutions.

We are a consulting technology firm providing software & Industrial Automation Solutions. We have a deep focus on creating Smart Operations by leveraging technologies like the Internet of Things (IoT) and Internet of Services (Cloud) along with complete connectivity solutions.

Technoviz Automation Solutions strongly believes in Industry 4.0 and has invested in building expertise and capability to help clients achieve their goals in a timely and cost-effective manner. Our products align with our strategy of creating value for clients.

We have extensive experience in many diverse areas of Industrial Automation Solutions. Our experienced staff of professionals has worked with a wide array of platforms, languages, PLCs, Controllers, Remote SCADA, Mobility, etc.



**"Leveraging our extensive experience of manufacturing processes and practices, Technoviz Automation has developed robust, reliable and scalable products for 'Smart Manufacturing'"**

## Mr. Kapil Khurana Founder, CEO



It's a popular opinion in the industrial arena that the fourth industrial revolution or the Industry 4.0 is more of an evolution than revolution. When we apply the predominant rule of Darwinian evolutionary theory – survival of the fittest – it is understandable why industrial organizations are rigorously involved in the battle of digital transformation and internet of everything. It's crucial that manufacturers increase connectivity and adopt digital technologies to make well informed, data-driven decisions.

But keeping up with the insane pace of technological change can easily become an overwhelmingly costly affair; to say nothing of the efforts that go into solving the technological challenges and the constant maintenance of the infrastructure. Since they have a core business to take care of, this need to split the focus becomes a huge burden. A technology solutions company based out of Gurgaon, Technoviz Automation is piloting a mission to allow organizations to regain their focus on core business by taking care of their 360-degree technology needs.

A torchbearer of Industry 4.0, Technoviz deeply focuses on creating Smart Concepts by leveraging futuristic technologies including Big Data, Internet of Things (IoT), and Cloud Services.

”

# Our Services

## Dynamics Experiences



As a custom engineering firm, Technoviz Automation Solutions has amassed an impressive resume of projects. It's the custom nature of our development projects that has enabled us to acquire vast experience in many diverse areas of project development.

## Industrial Communication Solutions



This services for Industrial Gateways, Protocol Conversions Free Band Wireless Connectivity Solutions 2.4GHz & 5.0 GHz Frequency and Satellite Communications Systems VSAT technologies & Services.

## Industrial Software Solutions



IIOT( Industrial Internet Of Things), Remote SCADA Solutions Reporting, Analysis along with, Dashboard & workflow Solutions. We also provide Mobility / Cloud Computing/ Web Server-based Information Solutions.

## Industrial Automation Solutions



This Solutions for Programmable Logic Controllers, PLC-based automation systems, Robot arms, and robot controllers for flexible production lines. Servo Systems & Drives, RFID Systems & Motion Control System.

# VisionAI



## Advancing Industrial Automation Through AI-Powered Vision Technology

AI-driven Web Image Processing Access Control System redefines traditional security by introducing intelligent, automated management tailored for demanding industrial environments. Leveraging existing surveillance infrastructure, it combines advanced facial recognition, live personnel counting, and PPE detection – including helmets and safety footwear - to ensure both access control and safety compliance. Designed for ease of use, the system operates through a centralized web interface, enabling real-time monitoring and rule-based entry. It helps organizations boost site security, meet safety regulations, minimize manual checks, and gain full visibility across operations from a single platform.

## KEY FEATURES

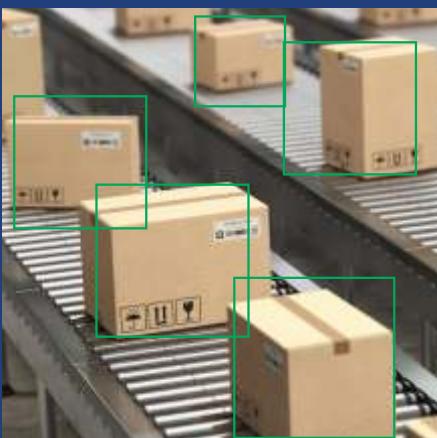
- Face Recognition & Identification
- Access Control Integration
- Personnel Counting
- PPE Detection (Helmet, Shoes, Jacket)
- Web-Based Dashboard
- Event Logging & Reports

## BENEFITS AT A GLANCE

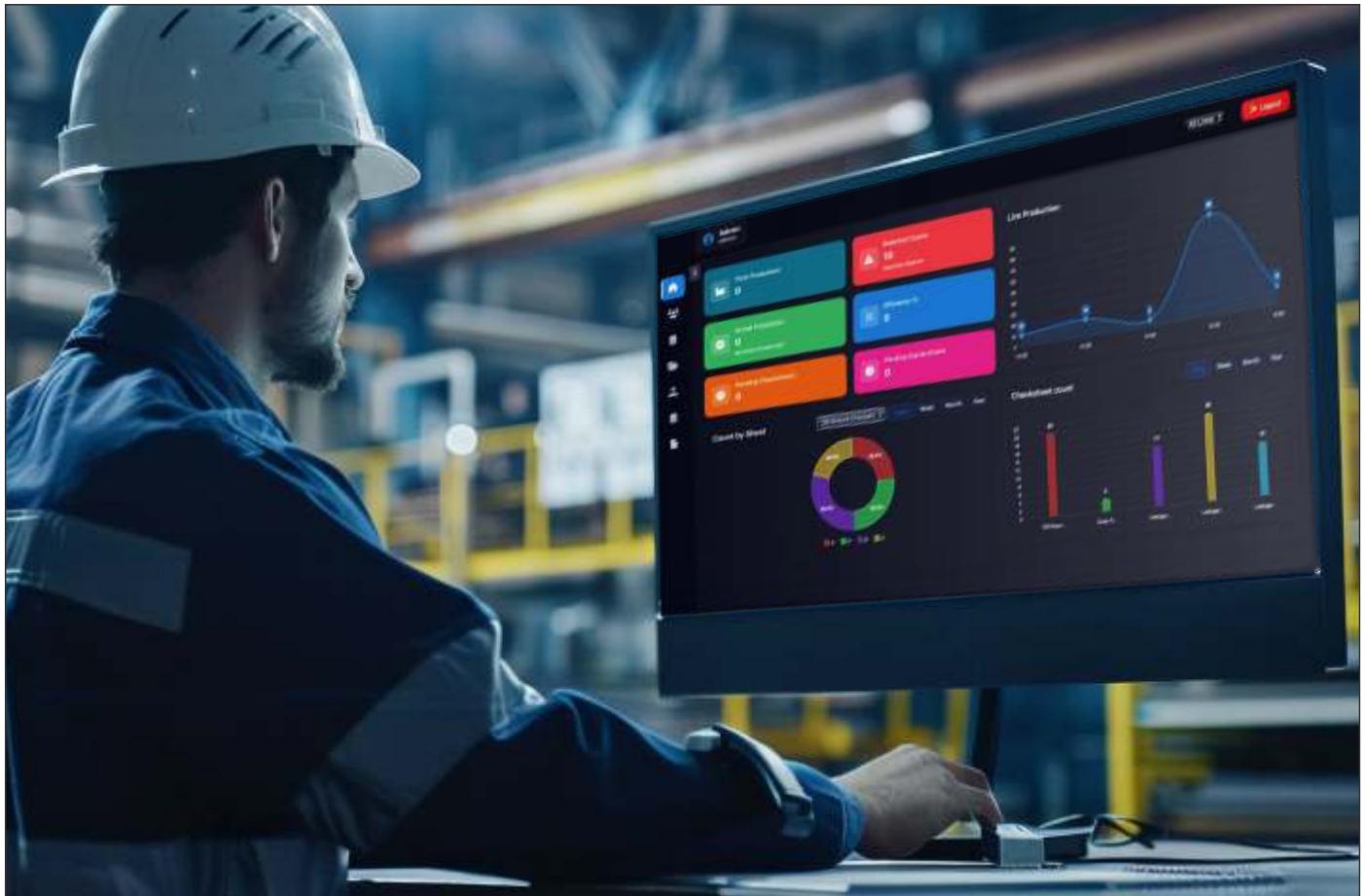
- Prevent unauthorized access
- Ensure PPE compliance for safety regulations
- Monitor and report real-time headcount
- Increase operational safety and security
- Save time with automated entry processes

## INDUSTRIAL & APPLICATION

- Industrial Plants & Factories
- Construction Sites
- Oil & Gas Facilities
- Power Plants & Utilities
- Warehouses & Logistics Hubs
- Smart Buildings & Campuses



# Digital CheckSheets



## Revolutionizing Quality Inspection with IIoT-Driven Digital Solutions

The rise of the Industrial Internet of Things (IIoT) is transforming how quality inspections are managed across manufacturing and process industries. Digital CheckSheets is an innovative IIoT-powered solution designed to digitize, streamline, and enhance inspection and analysis processes by enabling real-time data capture directly from the shop floor. Through centralized dashboards, automated workflows, and built-in root cause analysis tools, Digital CheckSheets empowers operators, supervisors, and quality heads to improve product quality and operational efficiency.

### USER ACCESS LEVELS

Role	Access Scope	Key Responsibilities
Operator	Data Entry	Fill inspection checklists, upload photos
Incharge	Verification	Review, comment, escalate if necessary
HoD/QA Head	Final Approval	Approve records, assign CAPA, lock reports

## KEY FEATURES

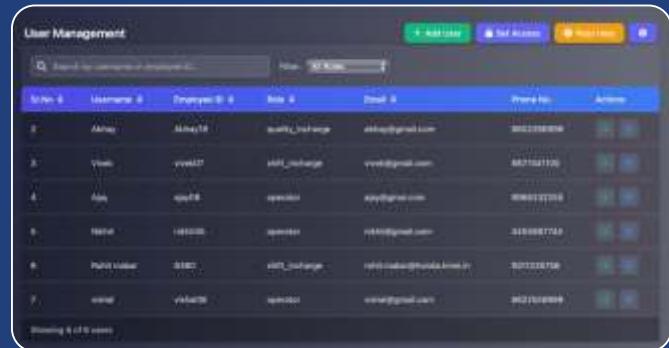
- Custom CheckSheet Builder
  - Role-Based Access Control
  - Automated Approval Workflows
  - Instant Reports & Root Cause Analysis (RCA)
  - Deployment Options
  - Fully Flexible & Scalable
- Subscription or Perpetual Licensing

## WHY CHOOSE?

- Say goodbye to paper records and manual data handling
- Enable real-time inspection monitoring across shifts & plants
- Streamline approvals and reduce inspection cycle time
- Achieve audit readiness with instant data retrieval
- Drive continual improvement through RCA and CAPA
- Integrate easily with MES, ERP, or custom enterprise systems (optional)

## INDUSTRIAL BENEFITS

- Automotive and Auto Components
- Chemicals and Process Industries
- Food & Beverage Manufacturing
- Pharmaceuticals and Life Sciences
- Heavy Engineering Plants
- Electronics and Assembly Line Manufacturing



# SmartEMS



## IoT-enabled Revolutionizing Energy Management with Intelligent Control

SmartEMS is a cutting-edge, IIoT-enabled Energy Management System designed to optimize energy usage across industrial facilities. By leveraging advanced AI analytics, real-time monitoring, and automated control, SmartEMS helps businesses reduce energy costs, improve operational efficiency, and achieve sustainability goals. The system offers deep insights into energy consumption, providing actionable data that enables smarter decision-making and lowers operational expenses. SmartEMS ensures energy efficiency by detecting inefficiencies, predicting peak loads, and automating energy management to prevent waste and penalties.

## KEY FEATURES

- Real-Time Monitoring
- AI-Powered Analytics
- Load Management
- Instant Alerts
- Compliance Reporting

## BENEFITS AT A GLANCE

- Optimize Energy Usage
- Remote Control & Automation
- Preventive Insights
- Compliance Assurance
- Cost Savings

## INDUSTRIAL & APPLICATION

- Manufacturing Plants & Industrial Facilities
- Commercial & Office Buildings
- Municipal Infrastructure
- Energy and Utility Management
- Water Treatment and Wastewater Plants
- HVAC & Environmental Systems



# OEE Dashboard



## Real-Time Tracking of Efficiency, Quality & Equipment Availability - All in One View

The Industrial Internet of Things (IIoT)-enabled OEE (Overall Equipment Effectiveness) Dashboard is a powerful, cloud-based solution designed to transform the way factories and process industries manage their performance. By capturing real-time data directly from machines on the shop floor, it provides a unified view of critical metrics such as efficiency, product quality, and equipment availability. This smart dashboard converts raw machine data into actionable visual insights, allowing plant managers to instantly identify inefficiencies, detect equipment issues, and analyze production trends. With continuous access to live performance data, decision-makers can respond proactively, reduce downtime, and make informed improvements that boost productivity and operational excellence. The result is a more agile, transparent, and efficient manufacturing environment driven by intelligent, real-time data intelligence.

## KEY FEATURES

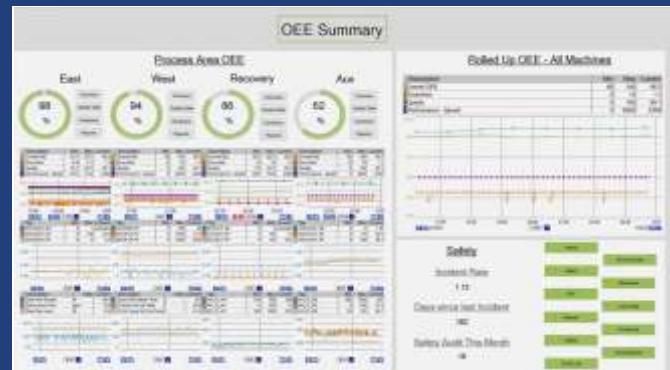
- Real-time Equipment Availability and Performance Monitoring
- Integration with Machine Control Systems and PLCs
- Automated Data Capture for Production Metrics
- Live Tracking of Downtime and Efficiency Losses
- Cloud-Enabled Visualization via Central Dashboard
- Detailed Event History with Customizable Reports

## BENEFITS AT A GLANCE

- Reduce production delays through proactive alerts
- Ensure continuous visibility into shop floor operations
- Track workforce and machine productivity accurately
- Strengthen compliance and quality control efforts
- Save time with auto-generated insights and analytics

## INDUSTRIAL & APPLICATION

- Manufacturing Units and Production Facilities
- Infrastructure and Construction Environments
- Petrochemical and Refinery Operations
- Power Generation and Distribution Plants
- Warehousing and Supply Chain Centers
- Smart Industrial Campuses and Buildings



# ImmersiX



## ARVR Applications to elevate industrial training, maintenance, and collaboration

ImmersiX is a next-generation platform combining Augmented Reality (AR), Virtual Reality (VR), and Mixed Reality (MR) to elevate industrial training, maintenance, and collaboration. Designed to align with Industry 4.0 goals, ImmersiX connects the digital and physical environments, enabling smarter workflows, enhanced safety, and more effective knowledge transfer.

From immersive training to remote support and 3D design visualization, ImmersiX empowers teams to operate with greater precision, speed, and confidence.



## KEY FEATURES

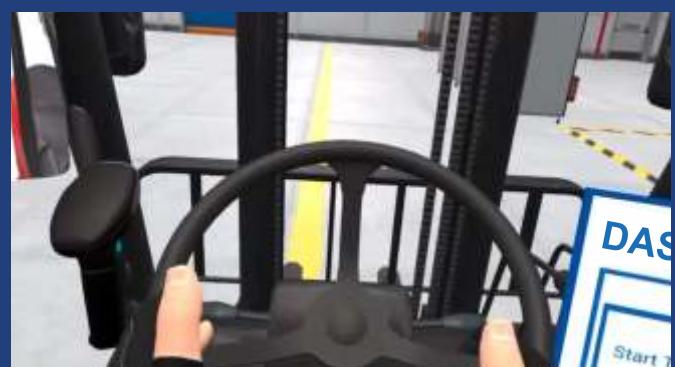
- AR-Based Support
- VR Learning Environments
- Mixed Reality Integration
- Hardware & System Compatibility
- Remote Collaboration Tools

## BENEFITS AT A GLANCE

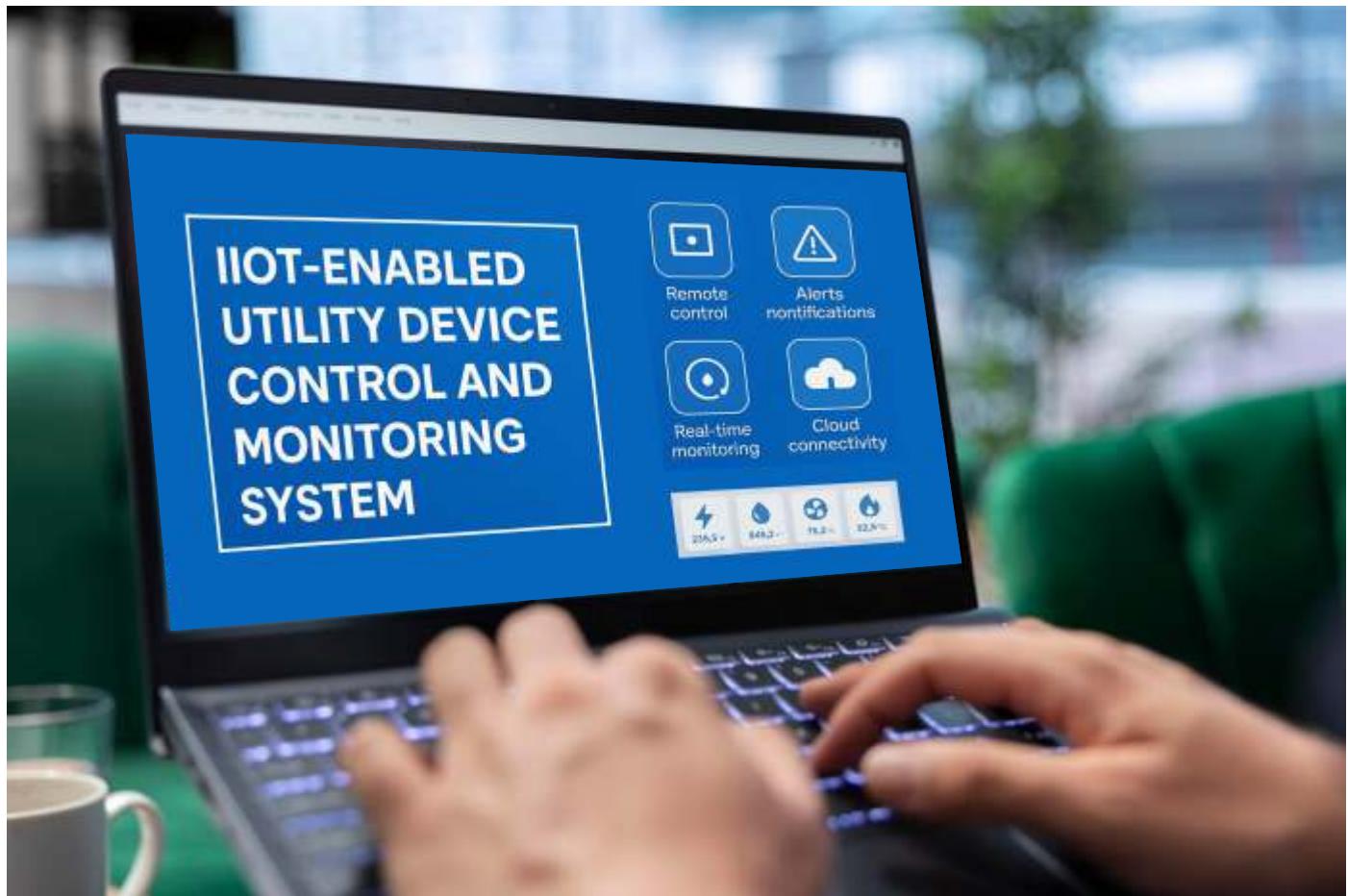
- Immersive Training
- Faster Maintenance
- Enhanced Safety
- Lower Operational Costs
- Flexible & Scalable Deployment

## INDUSTRIAL & APPLICATION

- Manufacturing & Assembly Operations
- Automotive and Aerospace Sectors
- Oil, Gas, and Energy Utilities
- Pharmaceuticals & Life Sciences
- Civil Engineering and Construction
- Logistics & Warehouse Operations
- Field Services and Infrastructure



# Utility 360



## IIoT Enable - Remote Device Control & Monitoring System

Utility360 is an innovative, cloud-based platform that empowers industries, commercial enterprises, and municipalities to monitor, control, and optimize their utility systems in real-time. By leveraging Industrial Internet of Things (IIoT) connectivity, this solution provides seamless remote access and automation capabilities, enabling efficient management of utility devices such as pumps, compressors, HVAC units, and more.

Utility360 ensures significant energy savings while offering complete control and oversight from any device, anywhere in the world. With its intuitive dashboards, advanced analytics, and real-time alerts, the platform enhances operational efficiency, accelerates response times, and reduces overall energy consumption.

## KEY FEATURES

- Real-Time Monitoring
- Remote Control & Automation
- Customizable Dashboards
- Instant Alerts
- Seamless Integration

## BENEFITS AT A GLANCE

- Optimize Energy Consumption
- Remote Access for Full Control
- Automated Operations
- Enhanced Operational Oversight
- Preventive Maintenance & Alerts

## INDUSTRIAL & APPLICATION

- Industrial Facilities & Production Plants
- Commercial Buildings and Facilities
- Municipal Infrastructure Management
- Energy and Utility Management
- Water Treatment Plants
- HVAC and Environmental Control Systems



# Why Choose Technoviz Automation Solutions Pvt. Ltd.

Technoviz Automation Solutions has a proven track record of providing high-quality, custom software and automation projects. Our client list includes Fortune 500 Corporations, Government agencies, and small businesses. Our experience is broad and spans the Complete project development cycle.

## What We Do?

We do Industrial Automation and digitalization. We strongly believe in Industry 4.0

- Industrial Software Development
- PLC-based Industrial Automation Solutions
- Project Management
- System Architecture & Design
- Cloud Services (IaaS)
- Wireless Solutions, free band &
- VSAT Technologies Solutions
- Turnkey Project Solutions
- Automation Control Panels



## India's TOP 10 IIoT Solution Provider Company



## Our Solutions

### ----- Connectivity Solutions -----



### ----- Cloud Solutions -----



### ----- Software Solutions -----



### ----- Industrial Automation Products -----





Technoviz Automation Solutions Pvt. Ltd.

## GET IN TOUCH

Website : [www.technovizautomation.com](http://www.technovizautomation.com)

Email : [support@technovizautomation.com](mailto:support@technovizautomation.com)

Phone: +91 9999765380



311, Paras Trade Center, Sector - 2,  
Gurgaon - 122011, Haryana, India

Easy Access Business Center, Al Abbas - 2,  
Al Mankhool, Dubai, UAE

