INDUS VISION

AI Based Vision Intelligence Network Solution for Manufacturing Industry

Operational Excellence *Quality Control* *Workforce Safety*

Indusvision.ai
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About Us

At Indus Vision, we are at the forefront of transforming manufacturing and supply chain operations with AI-driven vision intelligence solutions.

Who We Are?

A team of technology enthusiasts, AI experts, and industry veterans passionate about solving real-world challenges in Manufacturing and Healthcare

SUDIP GUPTA
Founder & CEO
Decade of expertise in AI & Robotics with research papers in robotics & control

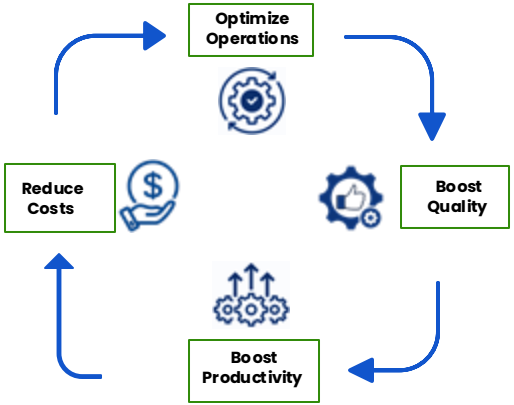
NITHESH HEGDE
Co-Founder
10+ Years of experience Co-founded two well established IT companies

GIRIDHAR NR
Co-Founder
8+ year of experience in the field of computer vision and Artificial Intelligence

SHAILESH SINHA
Alliances Director
25+ Years of experience as strategic advisor and global delivery head in IT

What We Do?

Deliver tailored, scalable, and high-ROI solutions leveraging AI and machine learning to



Our Mission

Our mission is to empower industries with technology that **enhances efficiency, ensures quality, and prioritizes safety.**

Our Vision

Our vision is to revolutionize industrial processes by making them **smarter, safer, and more sustainable.**

Our Values

Innovation- Driving continuous improvement through advanced AI technologies

Integrity- Upholding transparency and trust in every solution we deliver.

Sustainability- Promoting sustainable and efficient practices across industries.

Our Strengths

PARTNERS

- Department of Science & Technology
- DPIIT #startupindia
- MeitY Startup Hub
- Ramaiah Evolute
- Ministry of Electronics and Information Technology
- K-tech
- nasscom Center of Excellence-IoT & AI — A MeitY Initiative with Govt. of Karnataka, Haryana, Gujarat & AP

ACHIEVEMENTS

GRAND CHALLENGES KARNATAKA INNOVATING for SDGs

WINNER

STAR STARTUP

WINNER

CLIENTELE

- TATA — TATA CONSUMER PRODUCTS LIMITED
- ROCKMAN
- Hindustan Unilever Limited
- TATA TEA
- Kellogg's
- Himalaya SINCE 1930
- TATA Salt
- Tetley
- Horlicks
- Brooke Bond
- Himalayan

Proven ROI

Impact of Vision Intelligence Network

8X

Reduction in Defects Per Million Units (DPMU)

DPMU which was 61400 before the Visual Intelligence Network implementation, came down to just 8000.

56%

Reduction in Quality Costs

With automation of quality control process, the costs reduced significantly by 56%

196%

Increase in Quality Assurance

DEPO quality assurance increased by 196% after VIN implementation

78%

Improvement in Efficiency

The maintenance efficiency of machineries drastically improved by 78%

3X

Improved Workforce Safety

With VIN's safety module, the safety related incidents reduced by 70%

Understanding VIN

THE CHALLENGE

The Shortcomings of Conventional Quality Inspection System

Time Consuming Training
Takes 45+ days of training

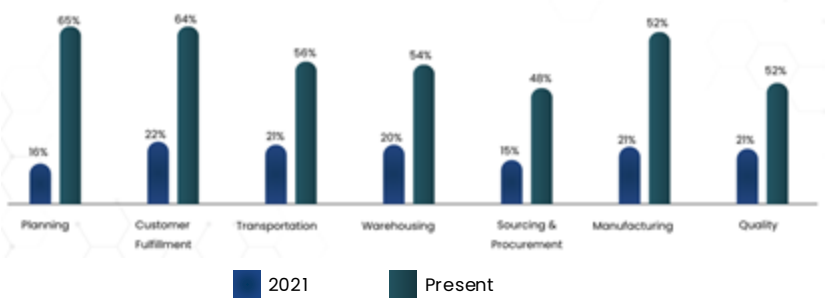
High False Positive
10% + wastage after install

No Central Visibility
Manual Data Capture

No Security Data
No means of data collection

THE IMPORTANCE

The impact of Automation in Decision Making over the years:



Source: Gartner- Sustaining a Customer-Centric Digital Supply Chain Ecosystem Survey

THE SOLUTION- VIN

Vision Intelligence Network (VIN) is an AI-powered solution aimed at bringing operational efficiency, improving quality control and ensuring workforce safety in smarter and sustainable way.

Key Features

Automated Quality Control
AI-powered cameras detect defects, ensuring high quality-output

Predictive Maintenance
ML Algorithms predict equipment failure before it happens, minimizes downtime

Supply Chain Monitoring
Track product flow throughout the supply chain with vision technology to ensure security & traceability

Process Automation
Automate repetitive tasks, reducing labor costs and human errors

Decision Making Insights
Real-time reports and dashboards for quick decision making insights

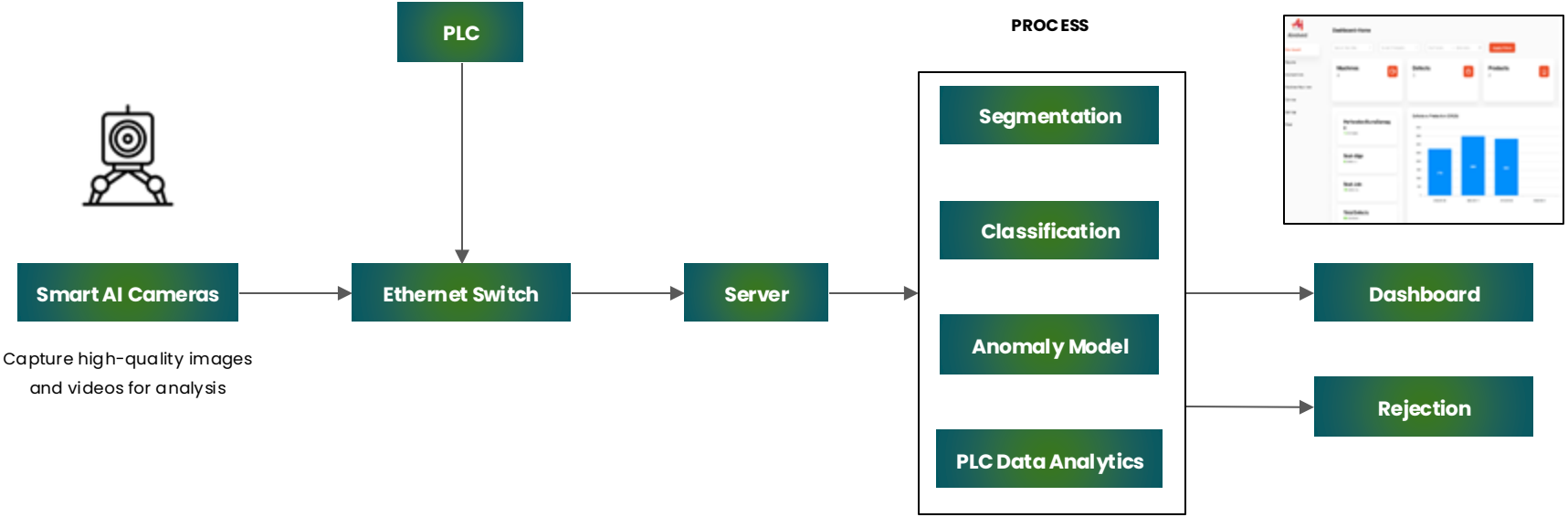
VIN Versions

VIN Edge
High-precision and low false positive rates in real-time defect detection

VIN Mobile
Mobile application to enhance your quality inspection & bring uniformity in assessment

VIN Cloud
Centralised, real-time analytics for effective decision-making

VIN High Level Architecture



VISION INTELLIGENCE NETWORK (VIN) USE CASES

REVOLUTIONISING PRECISION MANUFACTURING

Use Case 1- Quality Inspection in Manufacturing

THE CHALLENGE

- Detecting packaging defects like horizontal perforations, joint seals, panel/eye shift, etc.
- Detecting defects like shrink sleeve futment, bottle cap seal, OCR, crate bottle counting
- Detecting foreign particles in bottles manually
- Detecting pre and post packaging defects like soap cuts, dents, cracks, logo cut-off

THE SOLUTION

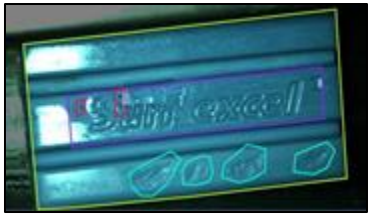
- AI driven vision cameras monitor production in real-time and look for all the mentioned defects.
- The products having defects are rejected in real-time.

THE IMPACT

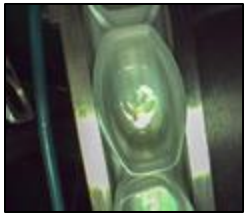
- Enhanced quality control
- Reduced product recalls
- Efficient production
- Reduced consumer safety issues

Defect in Sachet

OCR Detection



Defect in Soap Bar



Foreign Particle Detection

Counting of Bottles in a Crate

Use Case 2- Downtime Assessment

THE CHALLENGE

- During machine maintenance, tracking which machine parts workers interact with, as well as how long each part requires attention, is difficult.
- Lack of this information can lead to inefficiencies, unoptimized maintenance schedules, and increased downtime.

THE SOLUTION

- VIN divides the machine into different parts and detects worker hand movements over these areas.
- This enables accurate tracking of maintenance activities above and below the machine, ensuring no area is missed and maintenance efforts are clearly documented.

THE IMPACT

- Efficient maintenance of machineries
- Improve overall machine uptime
- Reduce production delays

AI-powered cameras analyzing machine areas and worker interactions. Red and green boxes indicate the specific regions being monitored for activity

Use Case 3- Predictive Maintenance

THE CHALLENGE

- Current maintenance practices are often reactive or based on fixed schedules, failing to predict when a machine is likely to break down.
- Unexpected equipment failures lead to unplanned downtime, increasing operational costs.

THE SOLUTION

- VIN's predictive maintenance system continuously monitors machines for performance anomalies using advanced computer vision and real-time analytics.
- Machine parts are analyzed for wear and tear, vibrations, overheating, and other indicators of potential failures. Alerts are generated before failure.

THE IMPACT

- Reduce downtime and production halts
- Optimised maintenance
- Increased equipment life
- Reduced repair costs

Use Case 4- Workforce Safety

THE CHALLENGE

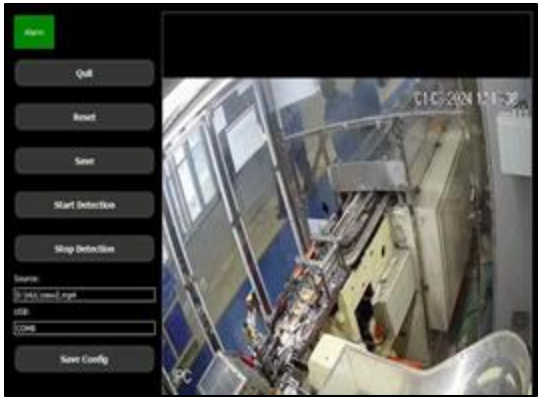
- Detecting workers entering restricted areas while machines are operational.
- Ensuring workers are equipped with the necessary safety kits to avoid accidents and ensure compliance with safety protocols.

THE SOLUTION

- VIN continuously monitor restricted areas in real time.
- identifies human presence and inspects workers trying to enter zones where machines are active.
- In case of violation, hooter siren alert is triggered, ensuring immediate action to prevent accidents.

THE IMPACT

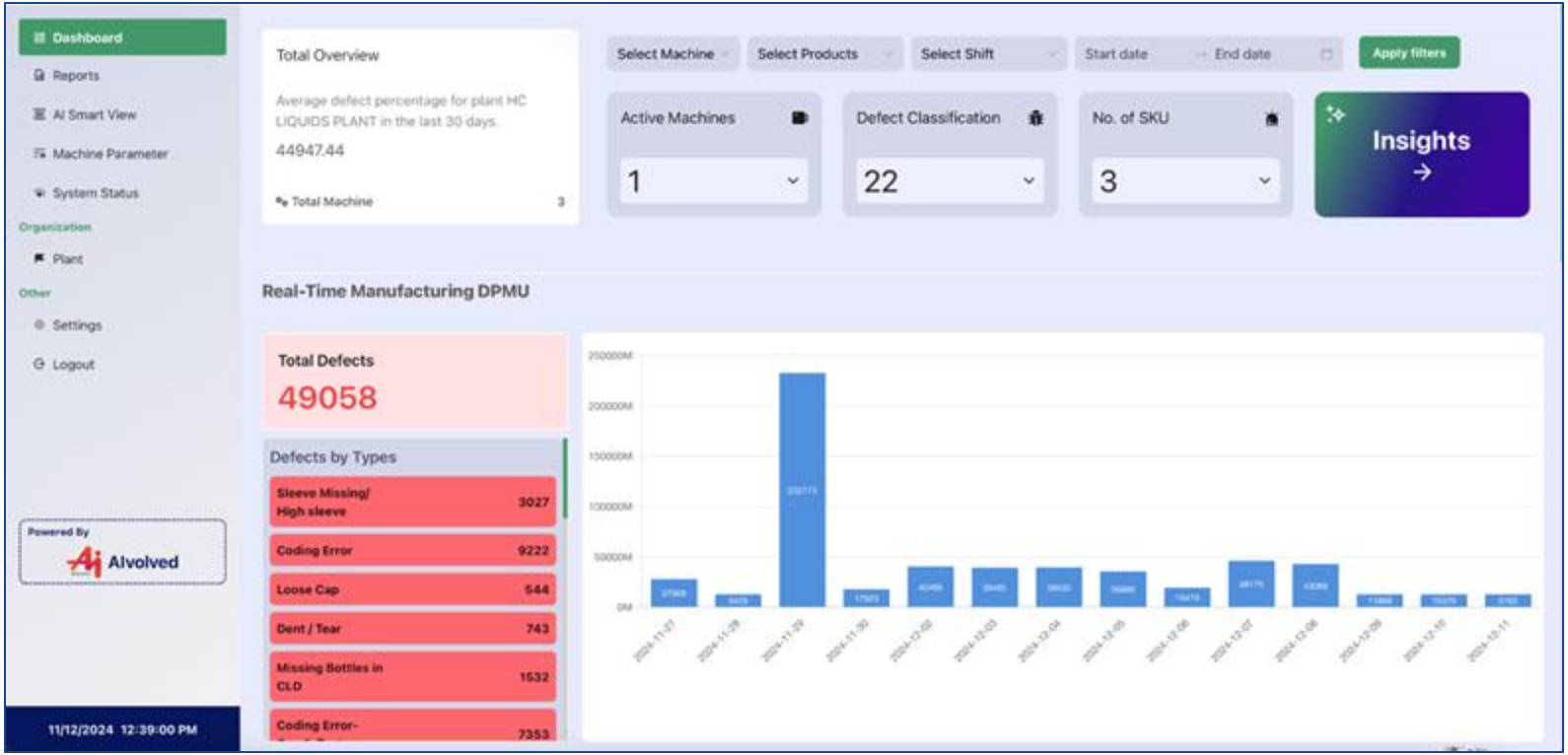
- Safe working environment
- Reduced likeliness of accidents
- Reduced operational downtime caused by unauthorized entry into hazardous areas.



VISION INTELLIGENCE NETWORK (VIN) DASHBOARDS

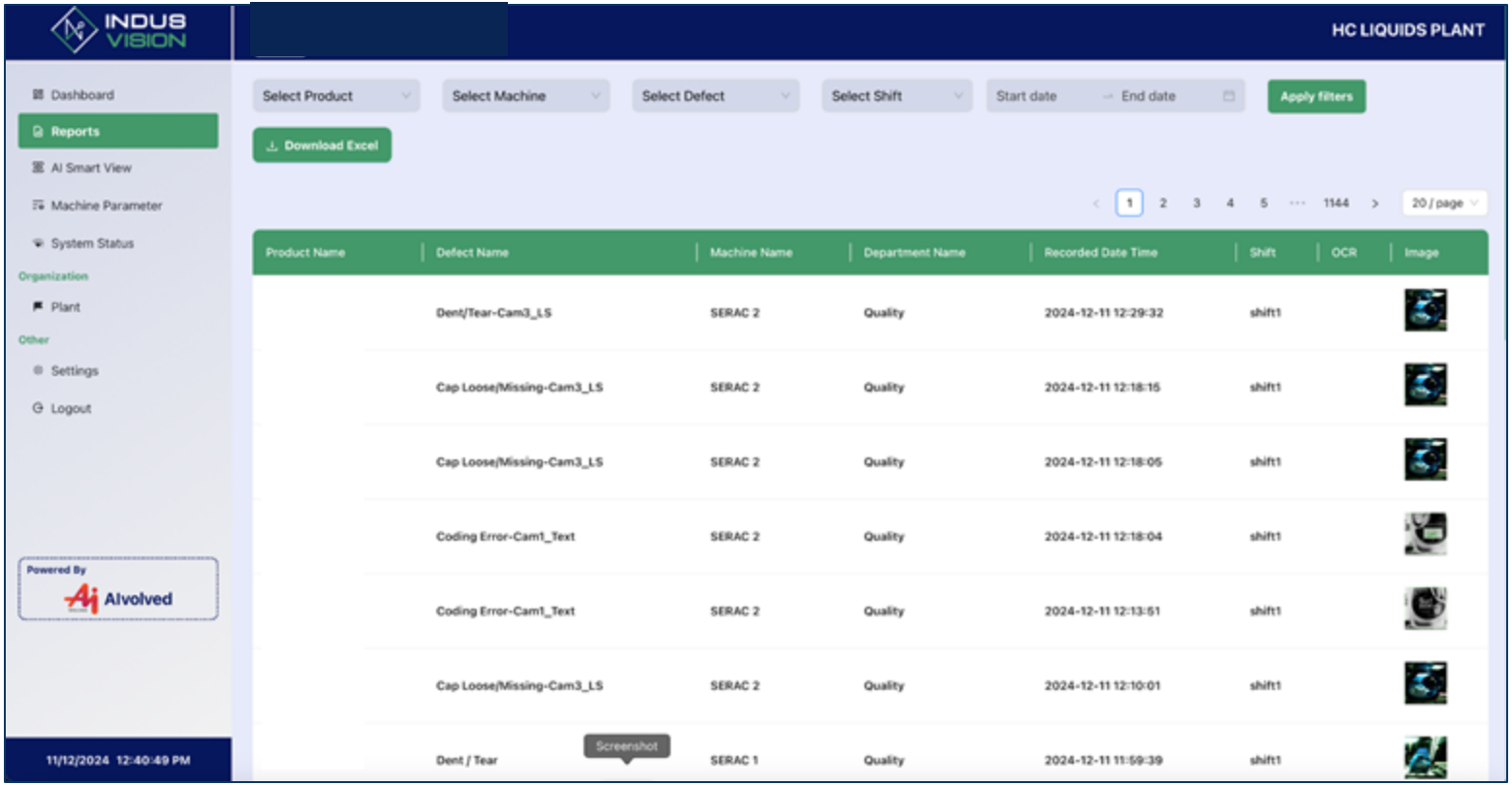
INFORMED DECISION MAKING

Dashboard 1- Real Time DPMU



Dashboard 2- RCA for Rejection

Dashboard 3- Real-Time Report on Rejected Goods



INDUS VISION

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