

An aerial photograph of a large industrial complex, possibly a refinery or chemical plant, situated along a waterfront. The facility features numerous buildings, pipes, and tall chimneys. In the foreground, several barges are docked at a pier. The sky is a mix of blue and orange, suggesting a sunrise or sunset. Overlaid on the image is a network of white lines connecting various nodes, representing a 5G network. The text 'Inventec 5G' is prominently displayed in the center.

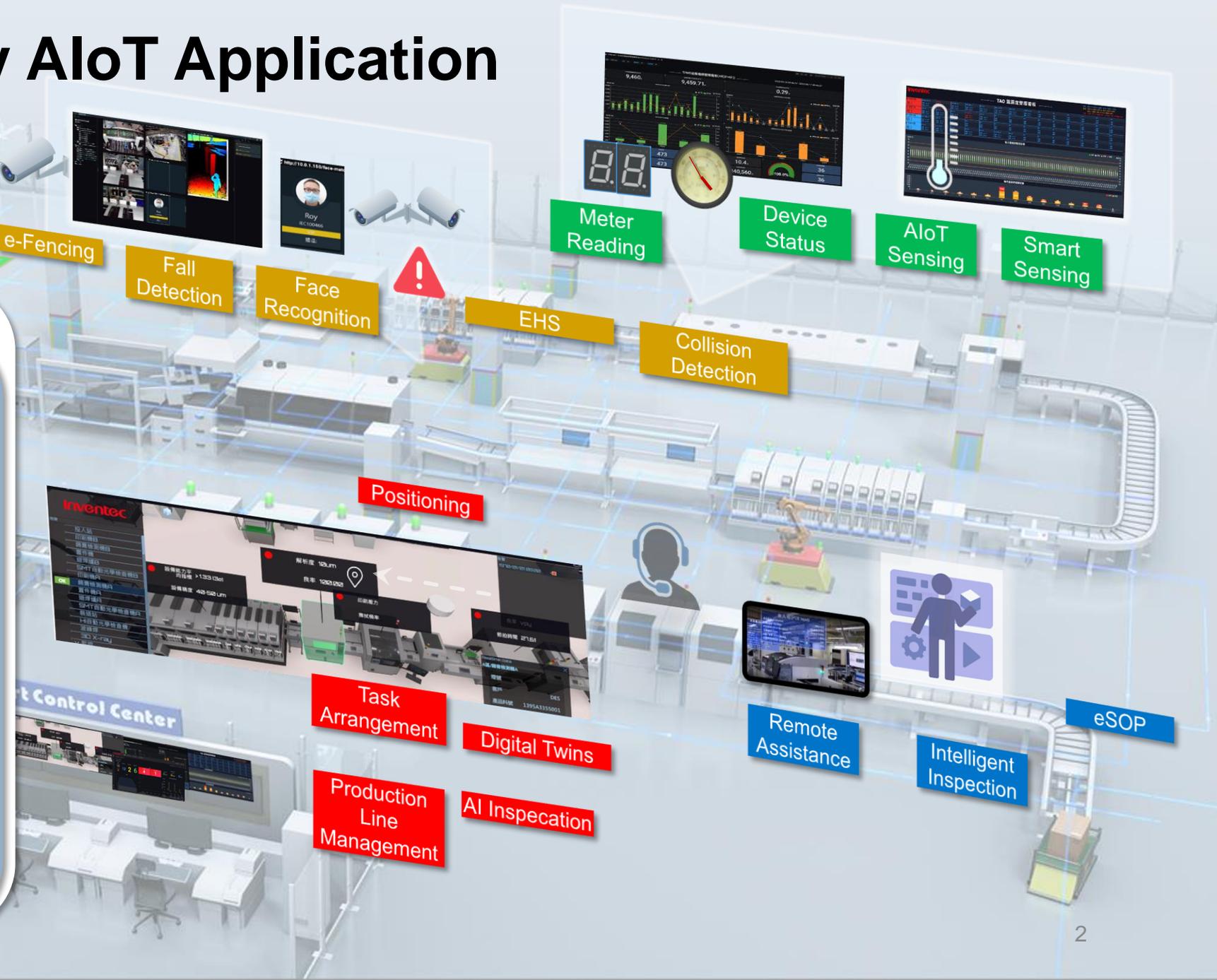
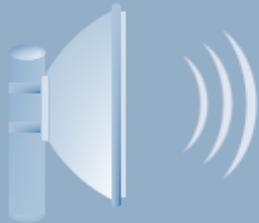
**Inventec** *5G*

**The Collaboration of 5G and Wi-Fi**

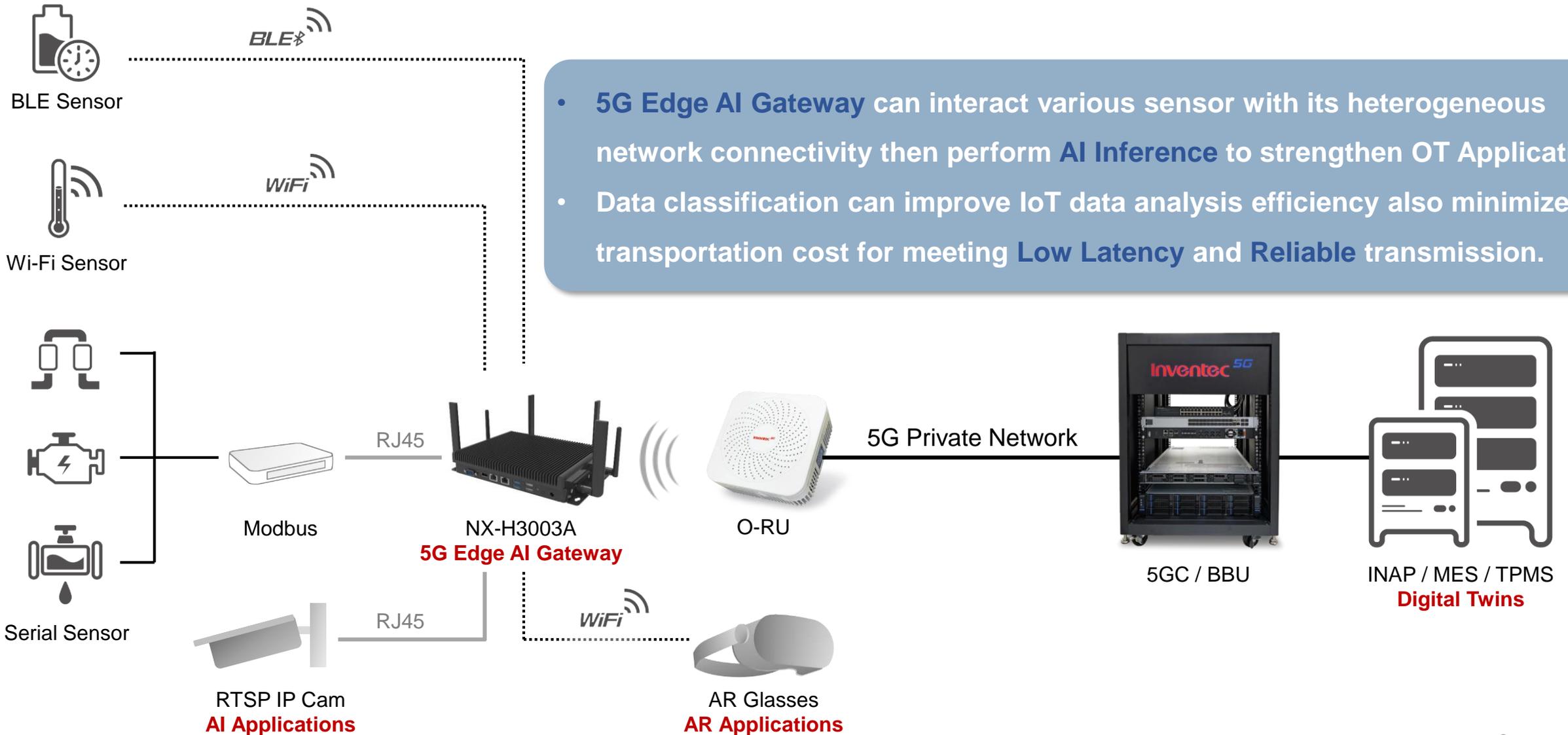
5G Private Network Solutions Division

# 5G Smart Factory AIoT Application

Plenty of Machinery  
Sensors run in different  
media which consists of  
5G; Wi-Fi; Bluetooth and  
Ethernet Cable...



# Heterogeneous Network Connectivity



# AR Application

- Solve **Remote Assistance** Difficulty.
- Minimize Learning Curve for New Comer.
- Keep Lessons Learned Continuously.
- Eases **Machinery Operation** Complexity.



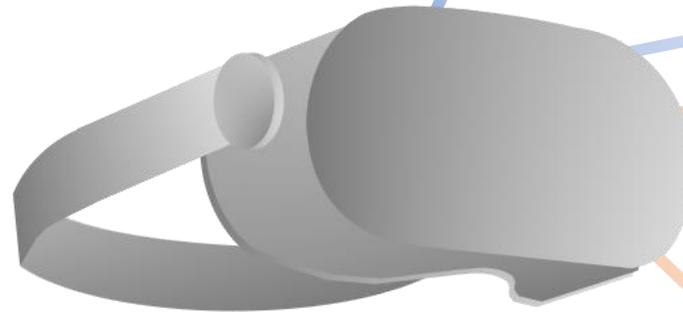
**eSOP / Remote Assistance**



**5G Edge AI Gateway**



Wi-Fi



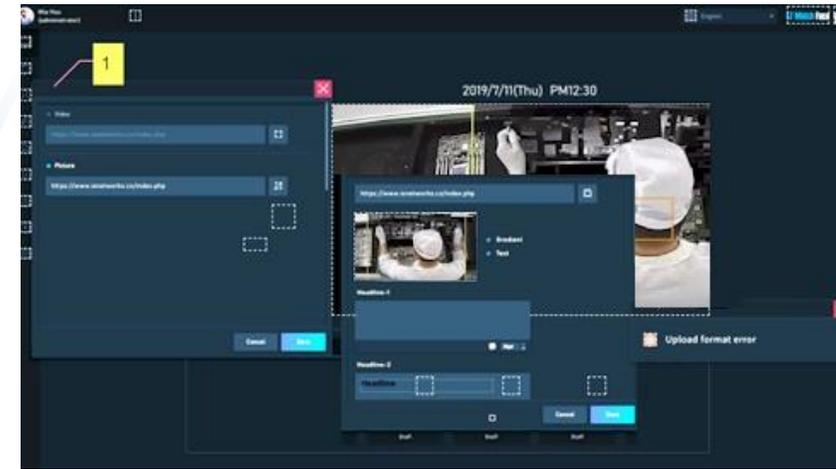
**AR Glasses**



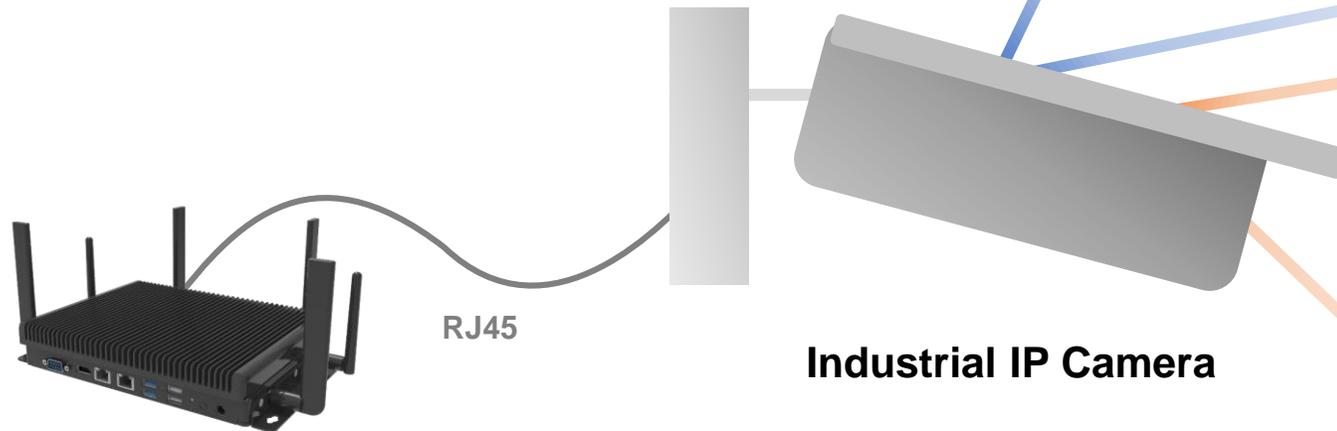
**Intelligent Inspection**

# AI Application

- Solve Human Error Problem.
- Solve Environmental Problem.
- Address **Manpower Shortage**.
- Solve **Blind Spot Monitoring** Problem.

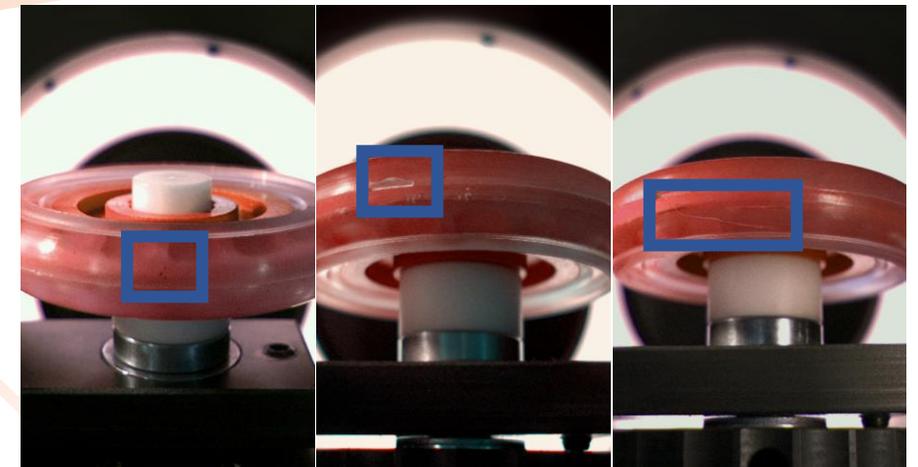


**Gesture and Cycle Time Monitoring**



**5G Edge AI Gateway**

**Industrial IP Camera**



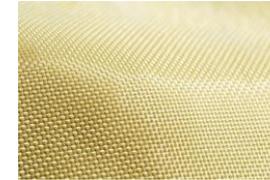
**Defect Detection**

# AI Computer Vision in Textile Industry

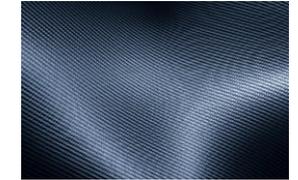
- **Movable** to fit textile machinery.
- Adjustable design (camera; coverage... etc.)
- Change camera arm in **different height**.
- Stop the conveyor when defect is inspected.
- Send the defect checking **event log** immediately.



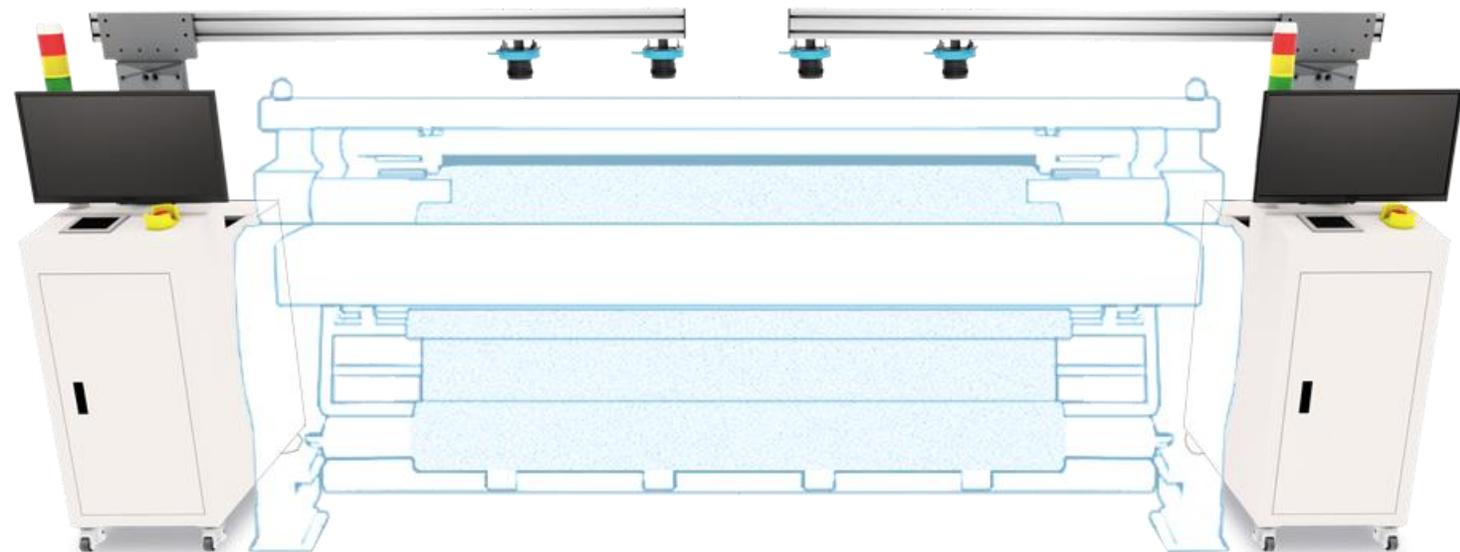
Electronic Glass Fabrics



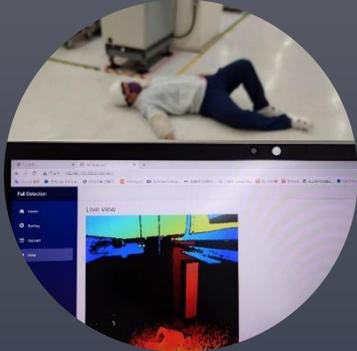
Kevlar Fabrics



Carbon Fiber Fabrics



# AIoT+ Efficiency



## Electronic Fencing

- Improve EHS
- Eliminate Incident



## Regional Control

- Reduce Collision
- Minimize Accident



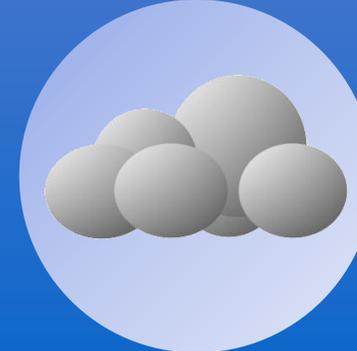
## PPE Detection

- Improve Safety
- Avoid Disaster



## Heterogeneous Networking

- OEE Management
- Boost Productivity



## CMS System

- Failure Forecasting
- FPY Improvement



An aerial view of a complex industrial facility, possibly a refinery or chemical plant, featuring a dense network of pipes, scaffolding, and large storage tanks. The image is overlaid with a glowing blue digital network of nodes and connecting lines, symbolizing advanced technology and connectivity.

# Inventec 5G

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