Real-Time Visibility & Predictive Control with IIoT

Industry: Insurance

Client: Steel Manufacturing Plant, Jharkhand, India

The Challenge

- ✓ No real-time machine data
- ✓ High unplanned downtime
- ✓ Manual inspections causing delays
- ✓ No energy usage tracking

Our Approach

We connected **machines to a smart IIoT platform to:**

- ✓ Monitor equipment in real time
- ✓ Track energy and performance trends
- ✓ Send predictive alerts

Key Solutions

- ✓ **Sensor Network:**
  Tracks temperature, vibration, energy
- ✓ **Live Dashboards:**
  For performance & anomalies
- ✓ **Edge-to-Cloud System:**
  Seamless, scalable data sync
- ✓ **Energy Analytics:**
  Optimize consumption

Tech Stack

Azure | MQTT | python | Grafana | PostgreSQL | SIEMENS

Impact Summary

Metric	Before	After
Equipment Visibility	Limited	80%+ Live
Downtime	Biweekly	-60%
Energy Tracking	Manual	Automated
Maintenance	Reactive	Predictive

Results at a Glance

80%	60%	3X	25%
real-time asset tracking	less downtime	faster incident response	energy savings

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