NISO



Production Monitoring System





"If you can't measure it, you can't manage it."

Peter Drucker

PURPOSE



Dynamic

The aim of production facilities is to produce a large number of products in the most efficient way. All devices contain different parameters and operate in different operating dynamics.



Time

If any device in the production facility malfunctions, the entire production process suffers. Problems should be understood and resolved within hours or even minutes.



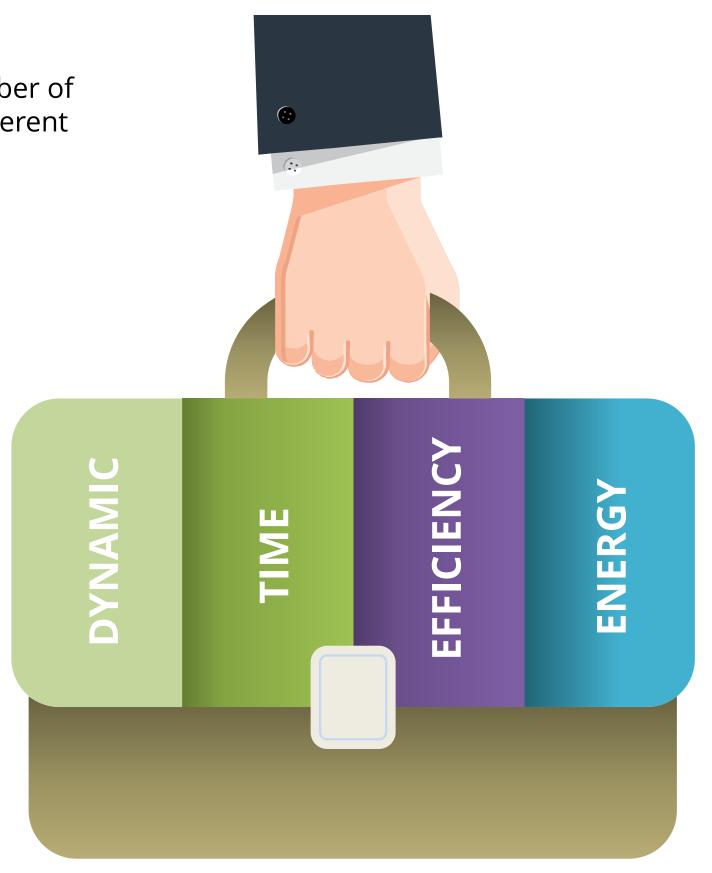
Efficiency

By using big data analytics and artificial intelligence methods, it is aimed to define all processes of the production facility, increase efficiency and support predictive maintenance, in parallel with the concept of smart factories.



Energy

By identifying inefficiency points in facilities and providing solutions with quick actions, it will contribute to a greener future by using less energy.





Light Up Your Manufacturing!

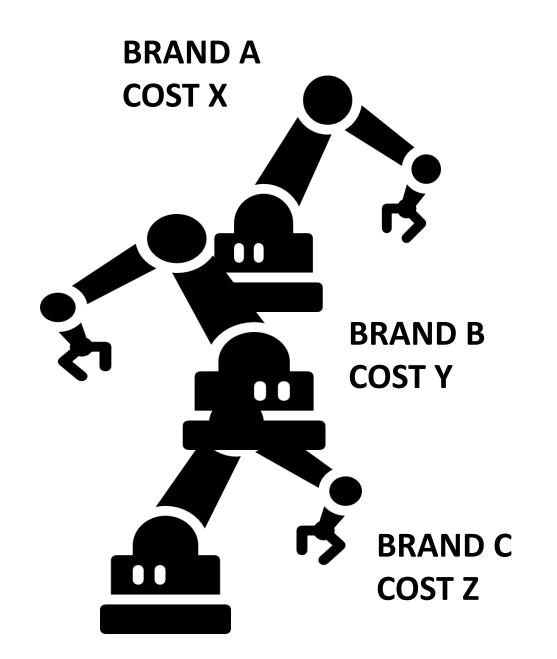




Content

- What is PaMiS?
- Data Collection
- Management
- Tracking & Monitoring
- Machine Learning / Al
- Why PaMis?



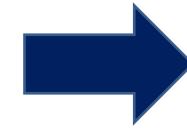




DASHBOARD A



DASHBOARD B



DASHBOARD C





A & B & C BRANDS SINGLE COST SINGLE DASHBOARD





Real-time Monitoring

Streaming of continuously updated zero-to-low latency information



Transparency

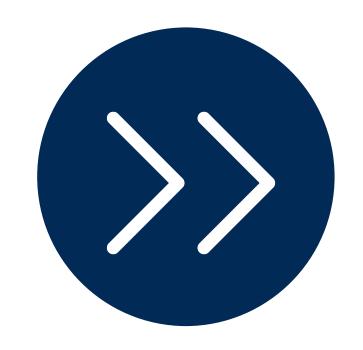
Full availability and access to information required for collaboration and collective management decision making



Anomaly Detection

Define anomalies and detect them





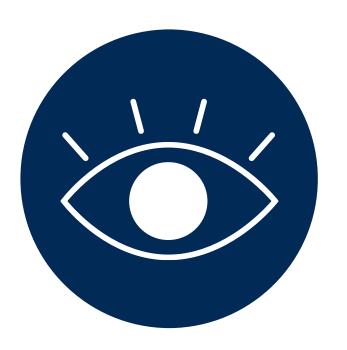
Fast Reaction

Monitor the defects and defect cause and take action



Easy Access

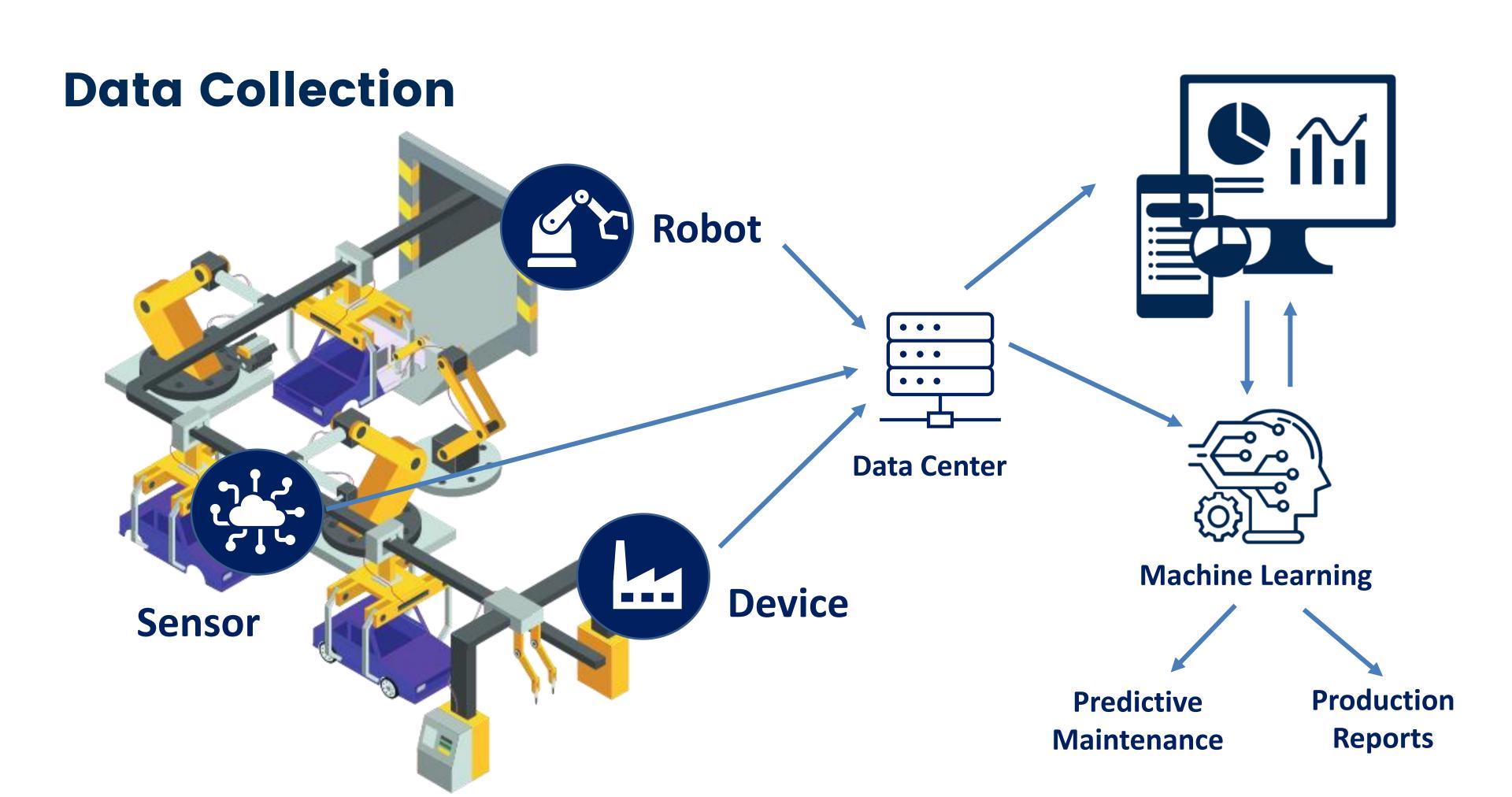
Available on web and mobile



Production Insights

Structured information





Data Collection



Country / Factory / Plant



Sensor, device



Robot, PLC

Various data protocols

MQTT OPC/UA Modbus

•••



MSSQL
MySQL
PostgreSQL
Influx
MongoDB
Oracle









- ROLE/USER BASED MANAGEMENT
- COUNTRY/LINE MANAGEMENT
- ASSET MANAGEMENT
- QUALITY MANAGEMENT
- SHIFT MANAGEMENT
- WORK ORDER MANAGEMENT
- NOTIFICATION MANAGEMENT
- TASK MANAGEMENT



ROLE/USER BASED MANAGEMENT



- Different user level support
- Level management
- User levels:
 - C Levels
 - GM/PM/Directors
 - Managers
 - Engineers
 - Technician

ASSET MANAGEMENT



- Define/modify asset
- Assign product specs. & parameters to an asset
- One page asset monitoring
- Asset follow-up with real-time production data

COUNTRY/LINE MANAGEMENT



- All countries, lines data in one platform
- Country, line operations

QUALITY MANAGEMENT



- Production Quantities
- Efficiency
- OEE
- Availability
- Performance
- Quality
- PPM
- Breakdown Rate



SHIFT MANAGEMENT



- List all the shifts
- Define/modify shifts
- Monitor asset's shift-based production data

WORK ORDER MANAGEMENT



- List and view workorders
- Schedule and assign workordersIntegrate workorders from ERP/CMMS

NOTIFICATION MANAGEMENT



- Anomaly types
- Priority management
- Convert anomalies to tasks

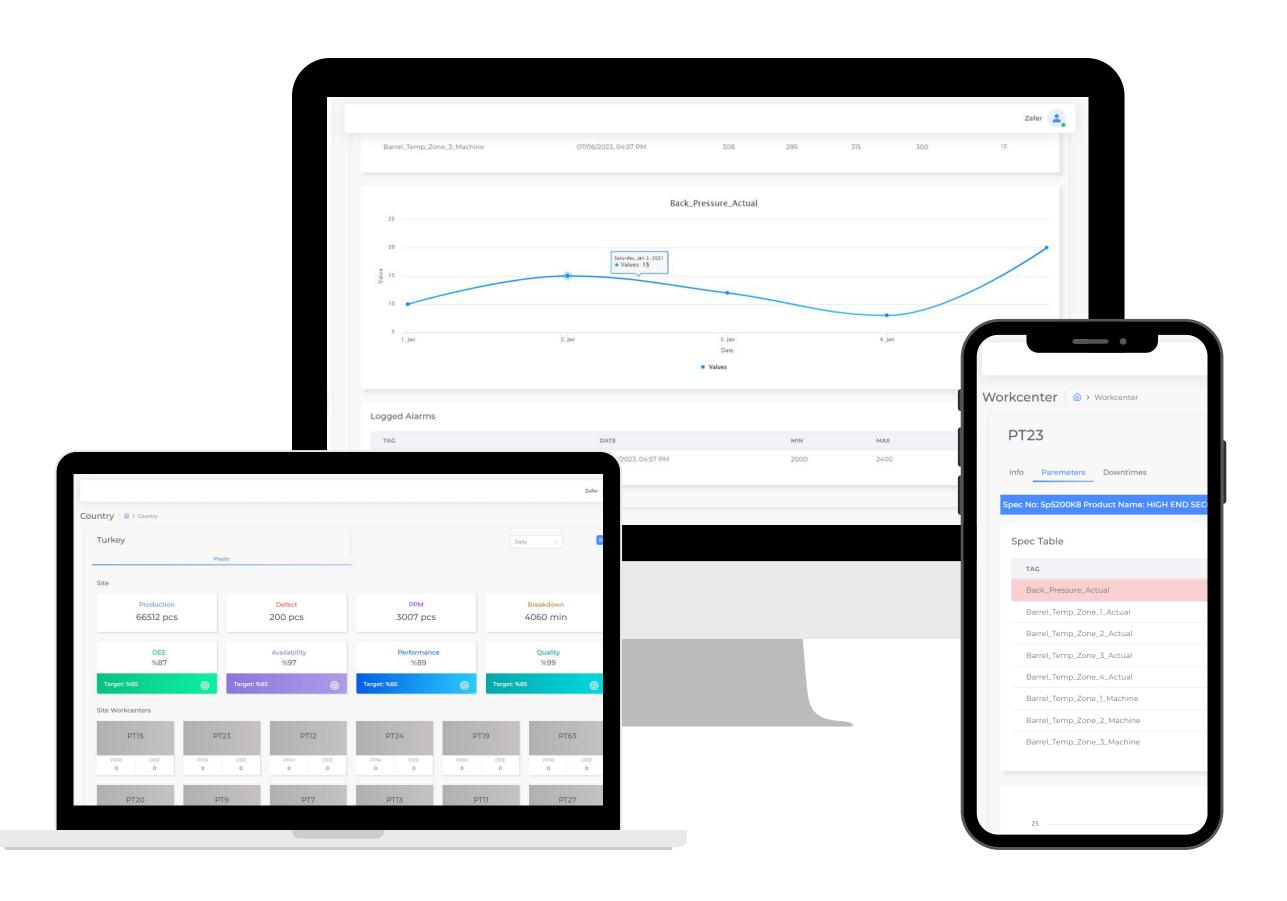
TASK MANAGEMENT



- Listing tasks
- Assign tasks
- Update and add actions to tasks







- All Data In One Platform
- End-to-end Monitoring And Tracking Production Data
- Breakdown Tracking
- Production Insights
- User Friendly & Responsive Design





PaMiS Can Detect Anomaly Situations With Machine Learning & Artificial Intelligence



REDUCE BREAKDOWNS

Prevent the breakdowns with predictive maintenance by recognizing abnormal patterns, allowing for real-time anomaly detection.

INCREASE EQUIPMENT LIFE

Extend equipment life by contributing to the identification of root causes of chronic malfunctions.







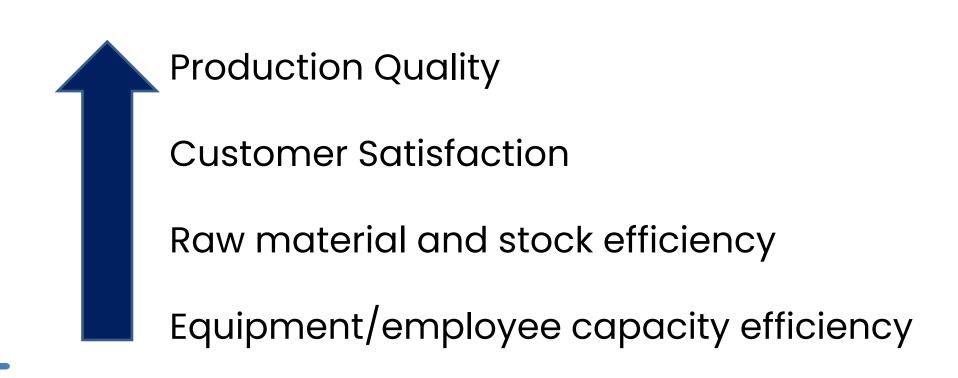
ADVANTAGES

Production Data

Fault Data

Trend Data

Equipment Data



Energy and maintenance costs

Faulty production and scrap/waste quantities

Downtime times and numbers

WHY PaMis?



COLLECT DATA FROM ALL KINDS OF MACHINERY DEVICES AND SENSORS AND VIEW THESE DATA ON A SINGLE PLATFORM BASED ON USER GRANTS



ON PREMISE/CLOUD OPTIONS

INTEGRATION WITH ERP, CMMS, SAP, 3RD PARTY, TEAMS, SLACK

PREDICTIVE MAINTENANCE

USER FRIENDLY & SIMPLE DESIGN

Thank You For Your Time!



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