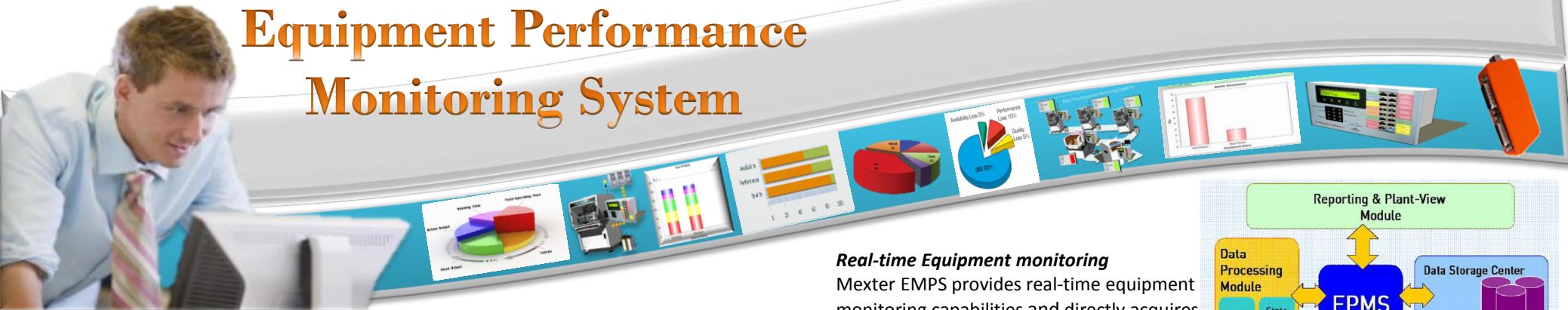


# Equipment Performance Monitoring System



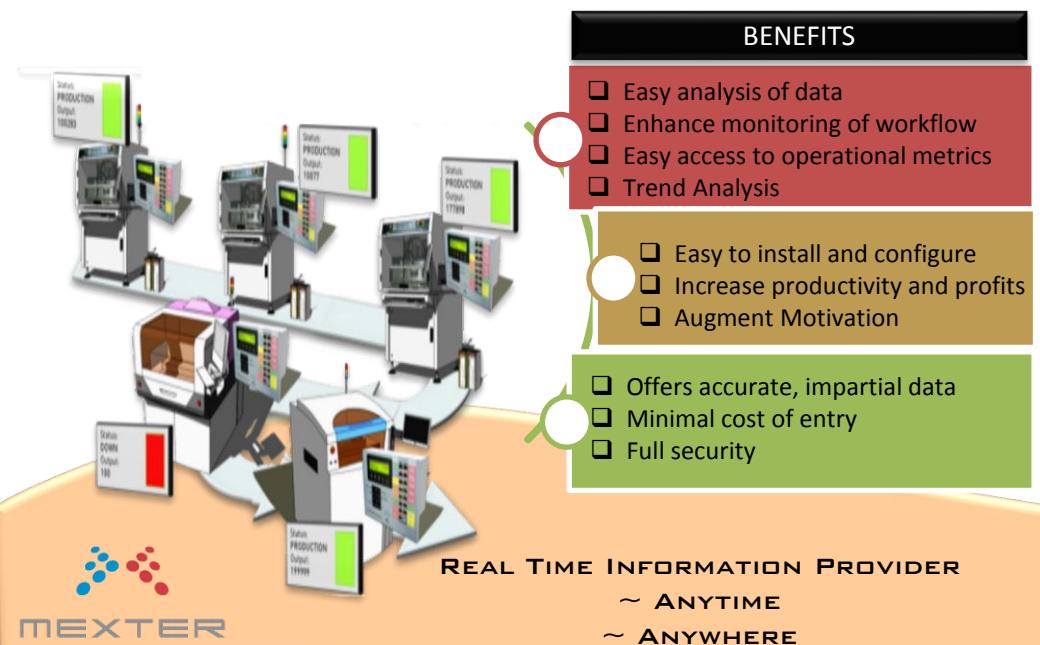
Shop Floor manufacturing often opt for lean manufacturing model for optimal product output, fighting wastage, lowering production cost etc. Real time information about one's production floor are essential to maintain balanced, optimal utilization of assets.

Production asset often faced difficulties in measuring losses, mainly:

**Downtime losses** – Breakdown losses, set-up & adjustment losses.

**Speed losses** – Idling and minor stoppage during interrupt by temporary malfunction or idling

**Quality losses** – Quality defects, rework losses.



## Real-time Equipment monitoring

Mexter EMPS provides real-time equipment monitoring capabilities and directly acquires information about equipment's' output and state.

## Overall Equipment Efficiency (OEE)

Mexter EMPS offer an complete measurement for OEE, provided in the function of Availability (A), Performance Rate (P) and Quality Rate (Q). That can be used as fundamental KPI for performance measurement against standards.

## Comprehensive Data / Chart Reporting of Measured Data

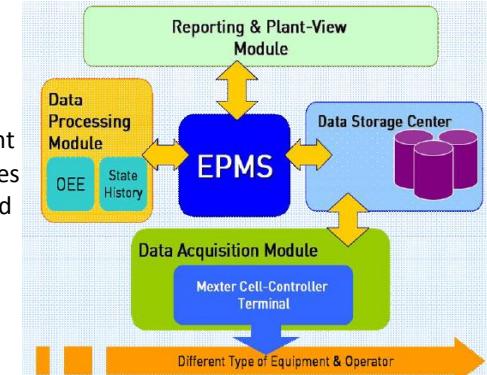
Mexter EPMS provides a comprehensive reporting chart and format for user selectively view the desired measured data.

## Individual Cell-Controller for Equipment/Operator State

Mexter EPMS incorporates in-house cell controller terminal as equipment-friendly integration point for equipment data acquisition as well as serving as Human- Machine-Interface (HMI).

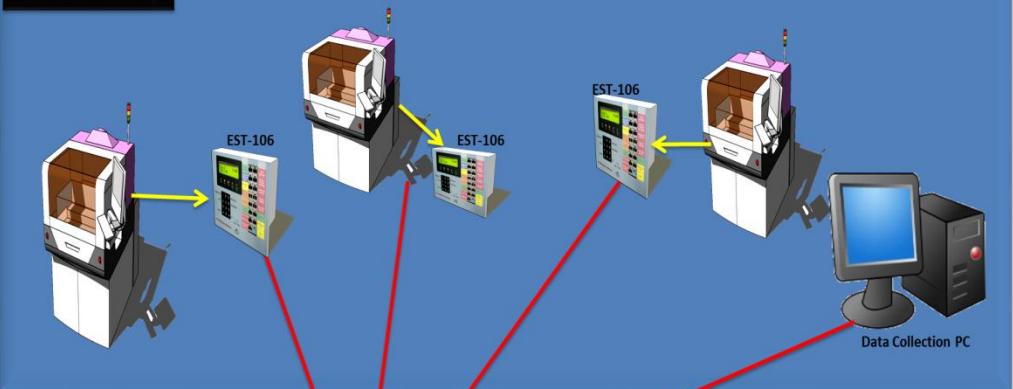
## Data Processing Module

Information from Data Storage Center are fetched for processing informative output that would be displayed via EPMS reporting.

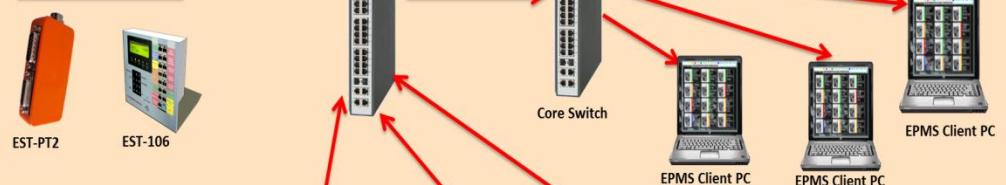


## EPMS Solution Architecture

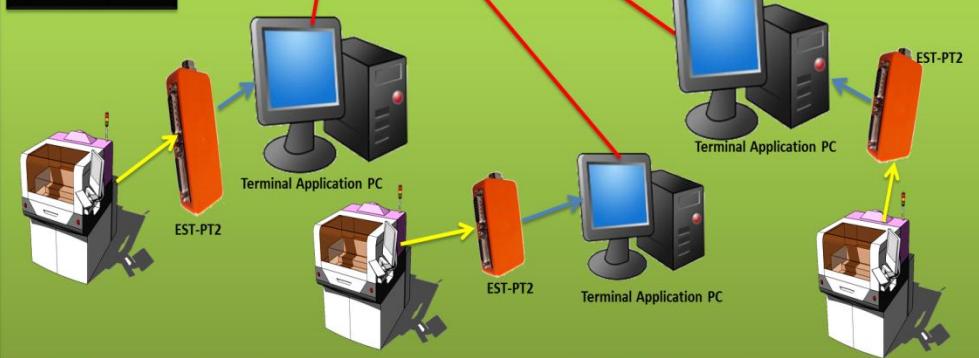
**EST-106 Terminal**



**Mexter Terminal**



**EST-PT2 Terminal**



Features	EST-106	EST-PT2
Easy and simple Interface	✓	✓
Pulse Configuration	✓	✓
Delay Configuration	✓	✓
Memory Size	949 event	NA
Communication	TCP/IP	USB
Barcode Scanner Port	✓ (RS232)	✓ (USB or RS232)
Programmable tower light Indication	✓	✓
Easily Terminal, PC synchronization	✓	✓
Self Identification on connection line	✓	✓
Easy addressing	IP Address	Machine Name
Auto Trigger to "Normal Production"	✓	✓
Inputs	8 isolated input	4 Inputs
Event Keys & Event Subkeys	✓	✓
Scanning Option	✓	✓
PC Connection	Many Terminal to 1 PC	1 Terminal to 1 PC



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