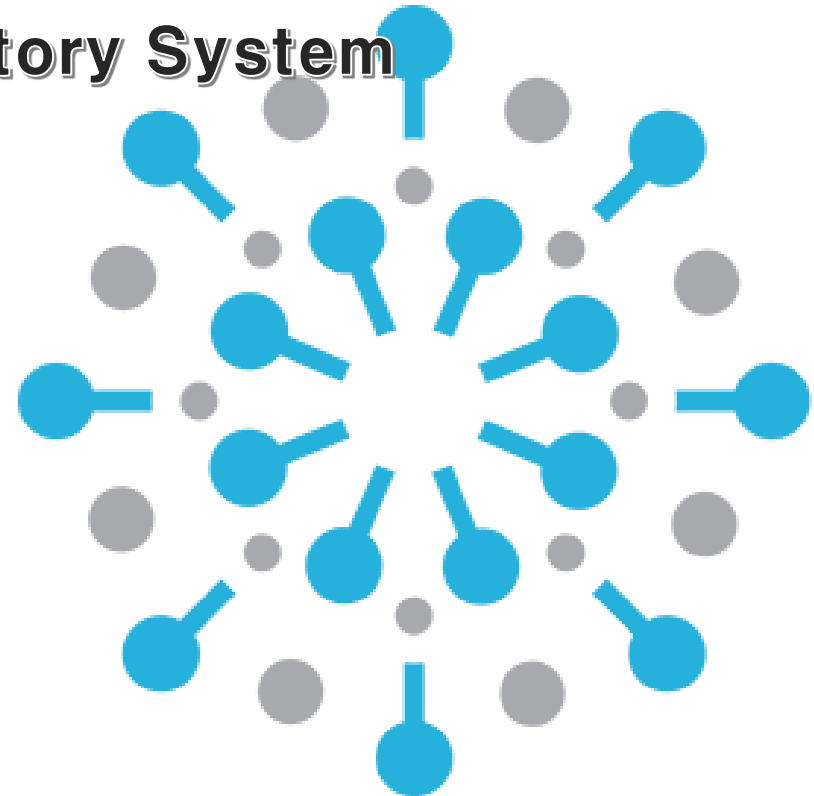


Real-Time Decision-Making

with Ei-Smart Factory System

EI SYSTEM

ERP · SCM · MES · Consulting · App



Real-Time Decision-Making ?

Real-Time Decision-Making is the ability to deliver decision support within the shortest possible time-frame using the best possible set of data.

In sewing, the human operator is the key factors driving production.

Difficulty finding identical patterns as in automated machines.



Historical Data vs Real-Time Data

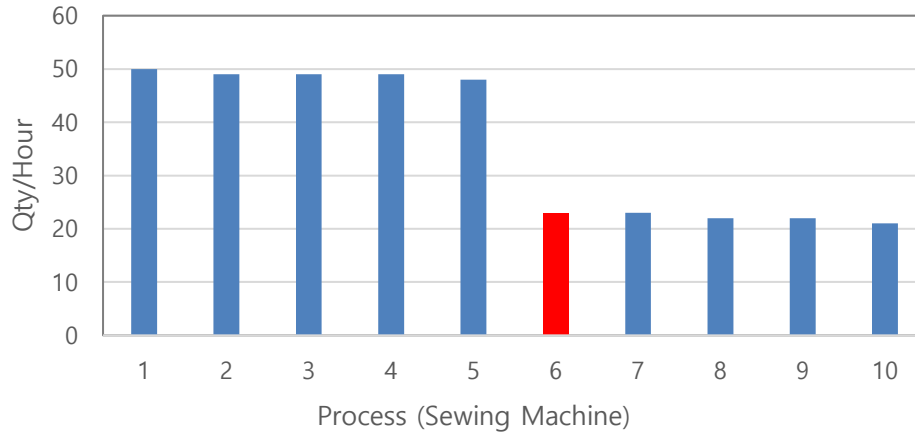
Data Type	Form	IT System	Usage
Historical Data	Documents, Statistics	Legacy ERP / MES	Planning, Evaluation
Real-Time Data	Dashboard, Digital Twin	Industry 4.0 DX / Smart Factory	Action, Fast Feedback

Benefits of Real-Time Data

- Up-to-date and complete view of the production.
- Identify changes in a shop floor
- Enable proactive corrective actions
- One source of truth
- Increase in productivity
- Availability of information on-the-move

Happenings on a Stitching Line ?

1. Unbalanced Processes

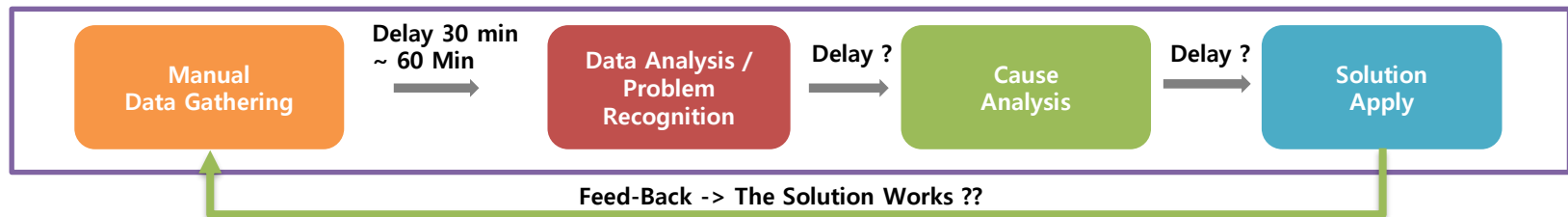


Process Layout Design for 10 Processes
-> 50 pcs / Hour

Process 6 causes bottle neck
-> Overall productivity decrease 50 %

If manager recognize this in real-time,
simply manager can input one more sewing
machine on process 6.
-> Only 10% input can increase 50% Overall
productivity.

2. Delayed Data Analysis and Problem Solving.

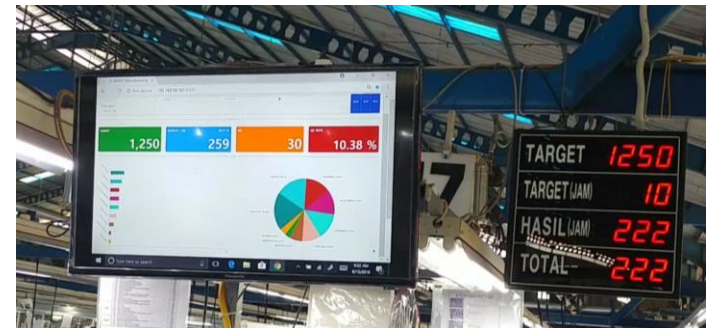


❖ Problem Recognition & Solution Apply need more than 70 min ~ 90 min.

-> For a Solution Feed-back... that also needs also more than 70 min ~ 90 min

❖ Real-Time Data gathering and analysis can reduce delays -> No more history, just Real-Time.

Ei-Smart Factory using Industry 4.0 Technology



Programable devices with cutting-edge IoT technology

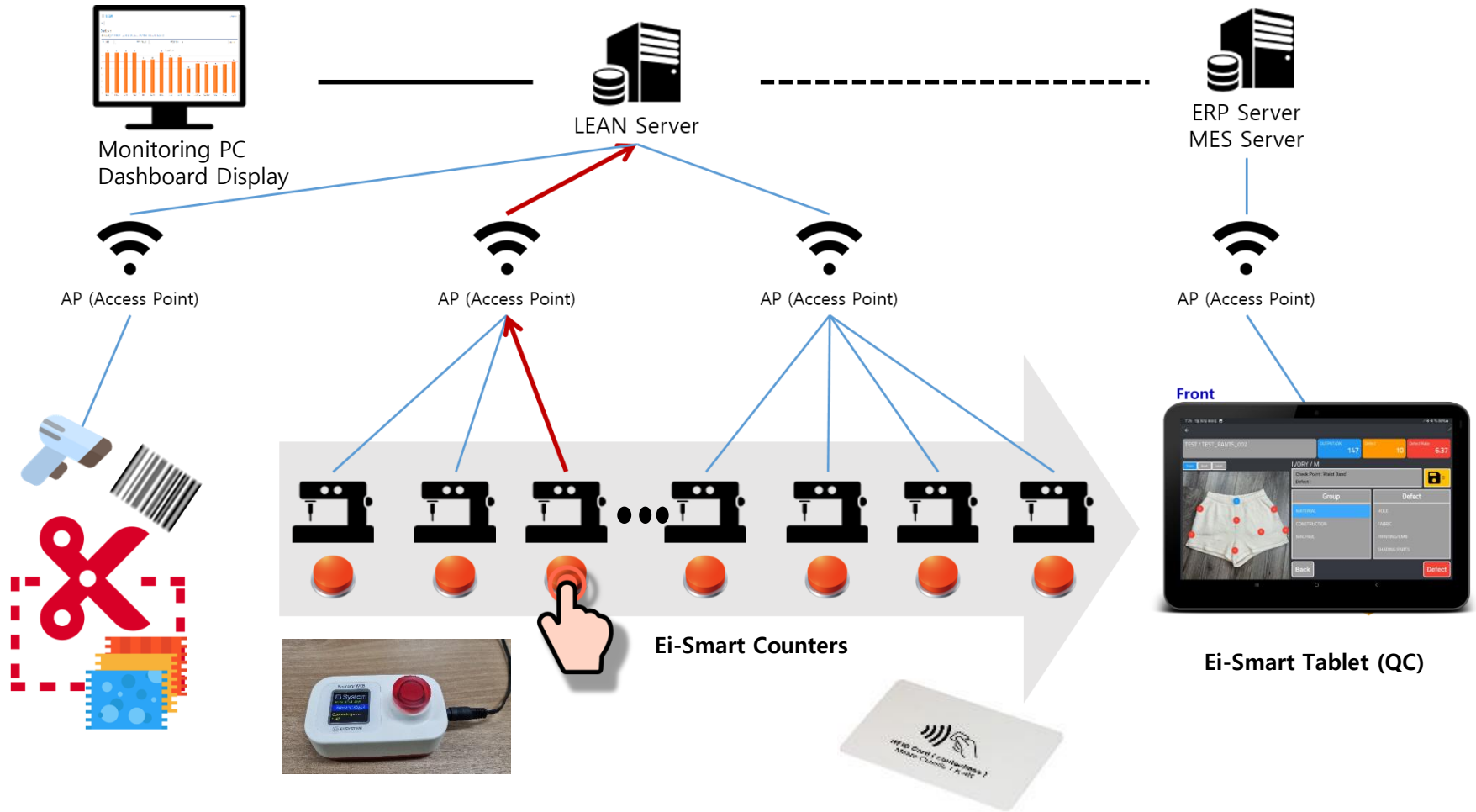


Using Standard WiFi network



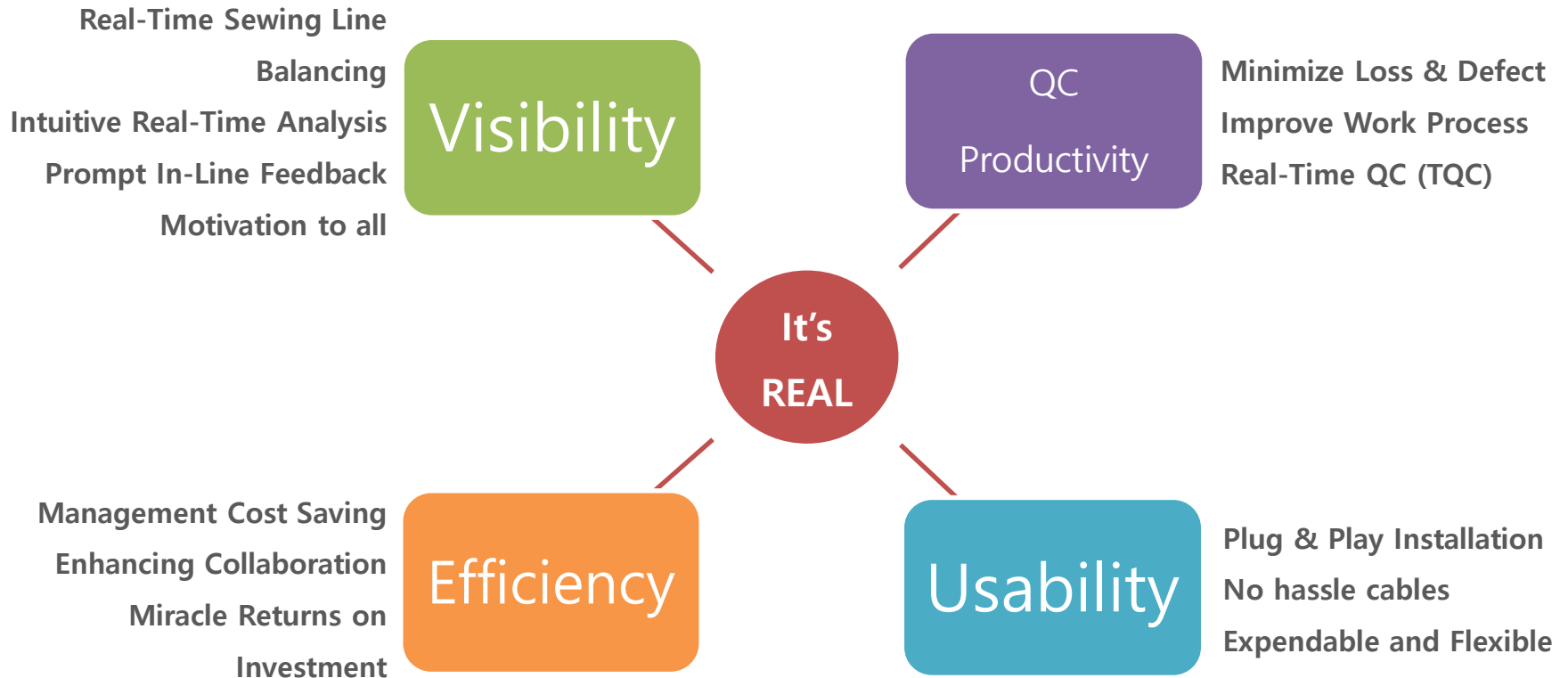
Standard Web Application / Appropriate Technology

Ei Smart Factory System Diagram



Real-Time Production Data Analysis => Each Sewing Machine Output Analysis

Advantages of Ei-Smart Factory System



Minimize Waste! Maximize Value!

Thanks !

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