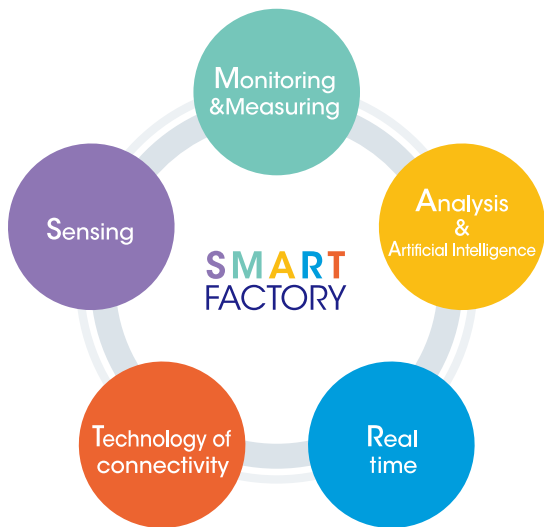MES

FactoryView™

Smart Factory Solution

Your company gets smarter!

Smart Factory?

Highly digitalized and connected production site that is realized more innovatable, flexible and profitable system. powered by IoT, AI, Cloud....

3View's Smart Factory

Sensing
- Force, AE* , Proximity, Angle, Temprature, Counting sensors.. RFID, QR code...etc.

Monitoring & Measuring
- Force, AE* mornitoring, Size measuring

Analysis & Artificial Intelligence
- Analysis production, quality, and machine data through AI.
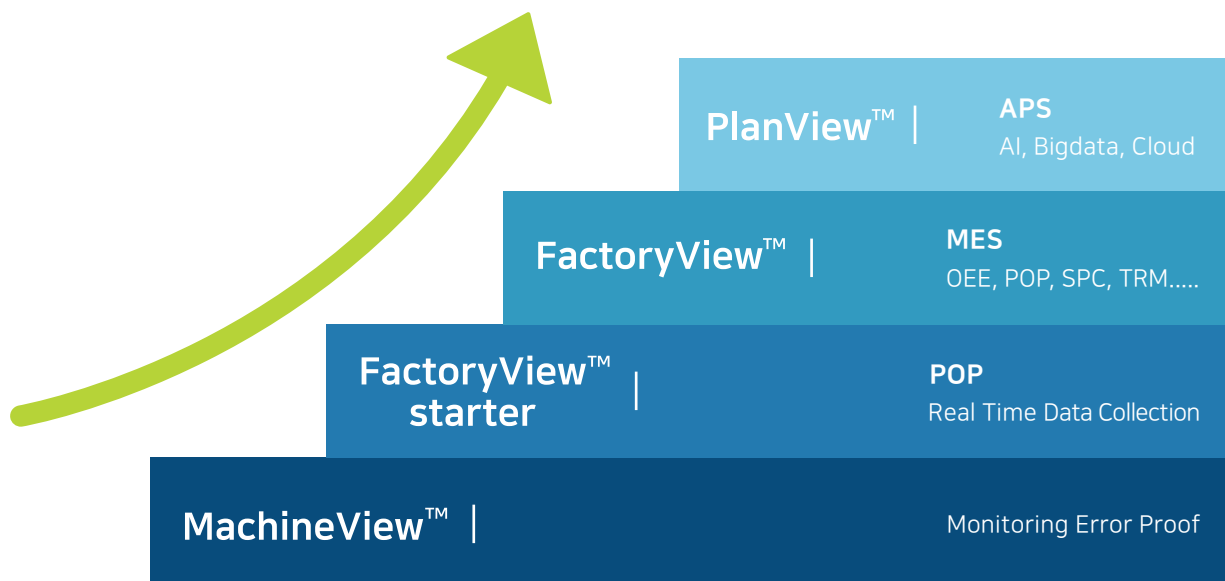
Real time
- IoT; Counting data, Mornitoring; sensor data

Technology of Connectivity
- Wireless; WiFi, Sensor networks

*AE : Acoustic emission

3View's Step

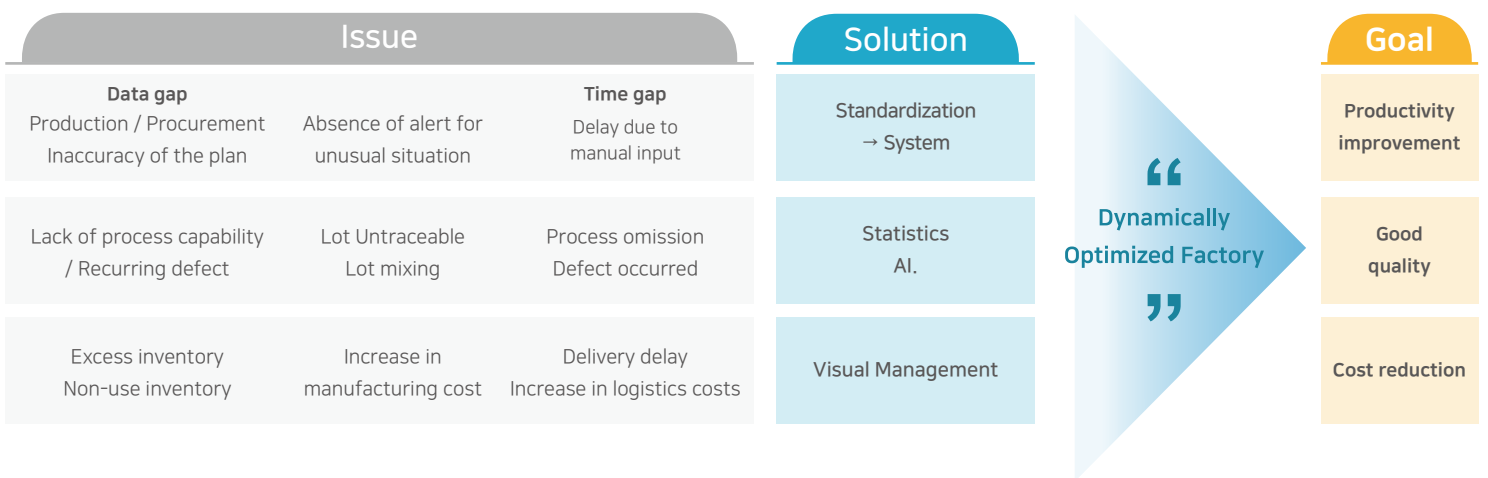| PlanView™ | APS
AI, Bigdata, Cloud |
FactoryView™	MES OEE, POP, SPC, TRM.....
FactoryView™ starter	POP Real Time Data Collection
MachineView™	Monitoring Error Proof

Overview

FactoryView™is

MES (Manufacturing Execution System), which has been implemented and verified by more than a hundred companies of the world, That contributes to integrate the whole processes including production, quality machinery, supply chain management, tool and mold   management and automation, etc.

Target

Issue			Solution	Goal
Data gap Production / Procurement Inaccuracy of the plan	**Absence of alert for** unusual situation	**Time gap** Delay due to manual input	Standardization → System	**Productivity improvement**
Lack of process capability / Recurring defect	Lot Untraceable Lot mixing	Process omission Defect occurred	Statistics AI.	**Good quality**
Excess inventory Non-use inventory	Increase in manufacturing cost	Delivery delay Increase in logistics costs	Visual Management	**Cost reduction**

" Dynamically Optimized Factory "

Quick and flexible response to manufacturing changes

Real-time data collection at manufacturing sites and provides information

Removal of wasteful factors through history management and data analysis

Quality management system by strong interlocks

Wholly optimized processes from sales orders to product forwarding

Advantage

Easy
Proactive, Easy-to-use system

Extendable
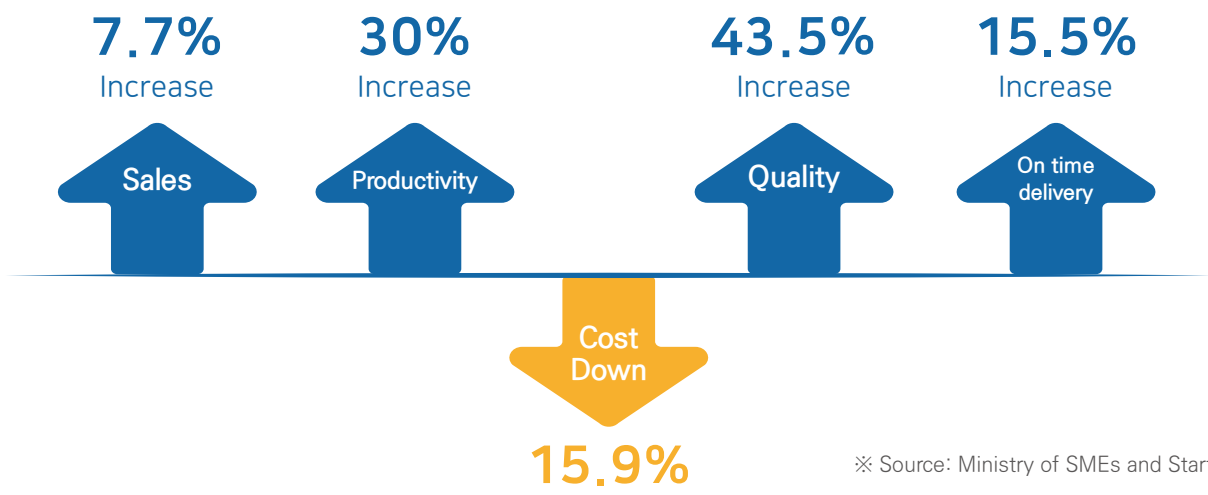Integration with existing systems and expansion with PlanView™APS

Flexible
Response system to various changes Operational Guidelines

MES functional module

Sales Management	Production plan Management	Performance Management	Quality Management	Material Management	Equipment Management
OEE Overall Equipment Effectiveness	Tool Management	Outsourcing Management	Production Technology	Logistics Management	Monitoring
PDM Product Data Management	APS Advanced Planning & Scheduling	Analysis /KPI	Situation Room / Status Display	PDA/Mobile	IoT Streaming

Expected profit

7.7% Increase — Sales

30% Increase — Productivity

43.5% Increase — Quality

15.5% Increase — On time delivery

Cost Down **15.9%**

※ Source: Ministry of SMEs and Startups in Korea

Major Applicable Industries

Manufacturing | Automotive parts, mechanical parts, electronic components, casting, forging, molds, heat treatment, surface treatment, semiconductors/LCDs, etc.

Assembling | Machinery, electronics, and other assembly-manufacturing industries, etc.

- Various products Mass production
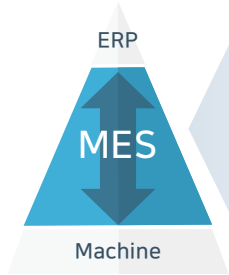- Various manufacturing processes
- Temperature, humidity, vibration environment
- Various Lot
- Complex logistics

System Configuration

MES

FactoryView™
Manufacturing Execution System

MES	POP	SPC
TRM	WMS	PDM
Mobile	CMMS	OEE
Alarm		

PlanView™
Advanced Planning & Scheduling System

MPS	CRP
KPI	MRP
Scheduling	
Simulation	

ERP
MES
Machine

MachineView™   MT-100   ST-50

QV-50
Digital calipers
Micro meter

Barcode reader
weigh

SENSORS

Pressure   Count   Angle   Force   Temperature   AE

Z-20   PLC

Real Time Data Acquisition
AI Control

Machine

Forming   Machine   Assembling   Heat / Surface treatment   Inspection / Packaging

3View™

The Three **V** Solution!

Quality

Productivity

Cost
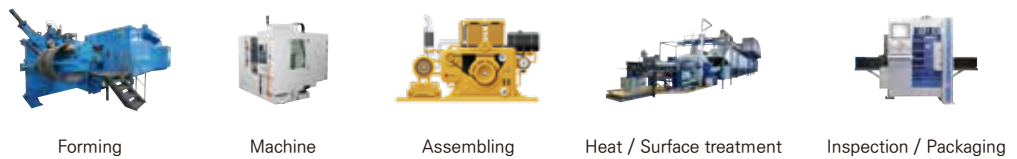
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The three V solution!