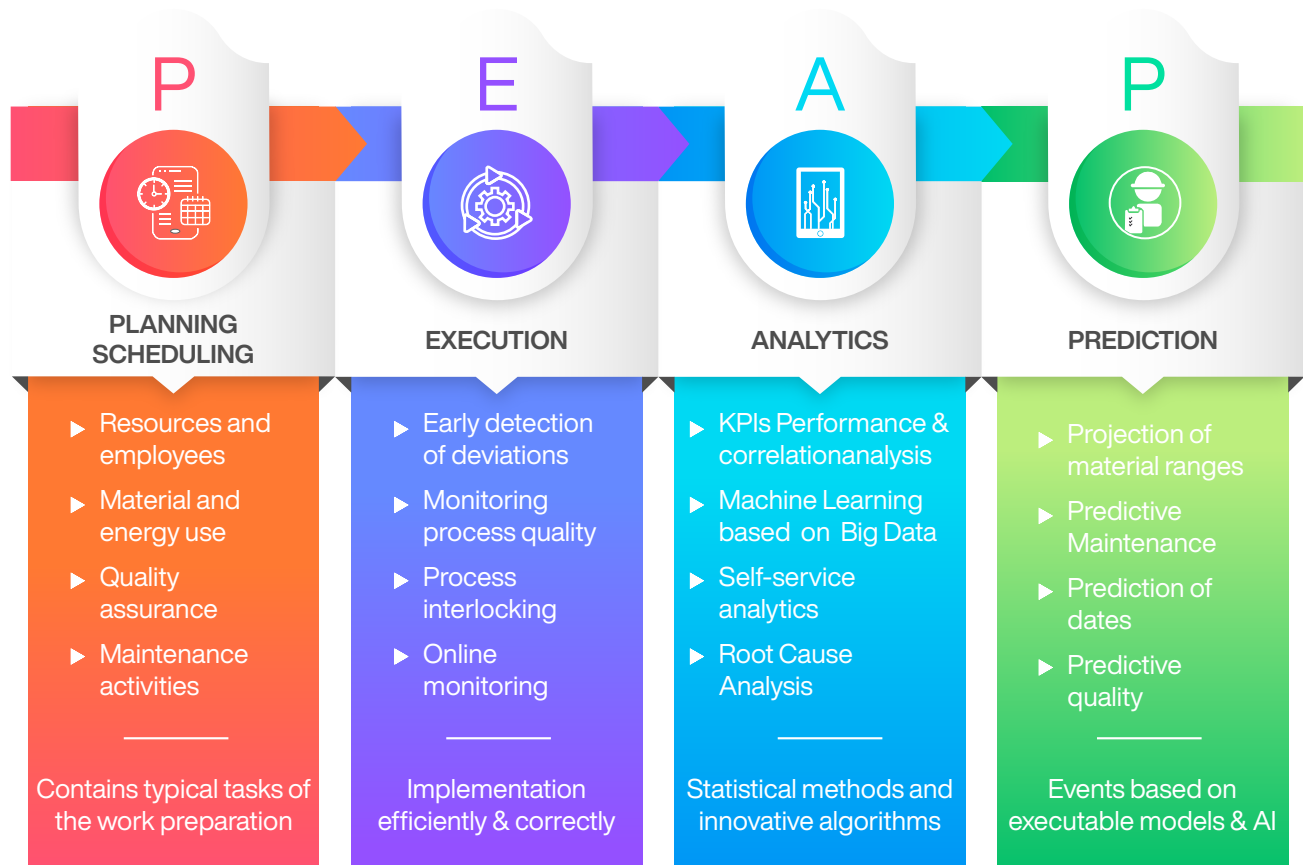




SMART FACTORY

The smart factory is a concept used to describe the application of different combinations of modern technologies to create a hyperflexible, self-adapting manufacturing capability. Smart factories are an opportunity to create new forms of efficiency and flexibility by connecting different processes, information streams and stakeholders (frontline workers, planners, etc.) in a streamlined fashion. Smart factory initiatives might also be referred to as “Digital factory” or “Intelligent factory.”



Industrial Internet of Things (IIoT)

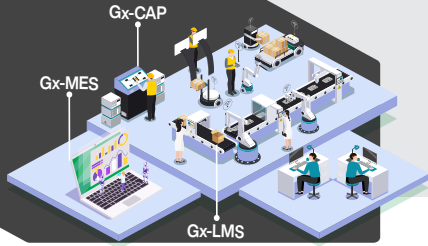
Industrial Internet of Things (IIoT) connects the operator and the real world of production with the digital image of the Smart Factory by means of networking and edge computing.

The following applications are used

- Providing information to the shop floor
- Data transfer from IIoT sensor
- Digital machine connections
- Flexible operator guidance
- Manual data collection



SMART FACTORY LEVEL



PRIMARY

Work order and factory management history are handwritten
NO SYSTEM, EXCEL(MS Office) or ACCOUNT SYSTEM (Tally) etc.



BASIC MONITORING

CONCEPT Digitalization of production information

TYPE Level of computerization of analog information in the factory (4M-METHOD)
MES(DASHBOARD, BARCOAD INTEGRATION)



INTERMEDIATE CONTROL

CONCEPT Control of production processes through the system

TYPE QA analysis and production planning through real-time information(4M)
MES(TALLY INTEGRATION, QUALITY SPC), LMS



ADVANCE OPTIMIZATION

CONCEPT Autonomous progress from monitoring to optimization

TYPE Completely intelligent factory based on IoT (4M + 1E)
MES(POP, MOBILE APPLICATION), LMS, CAP



WHY GUNN SOLUTION?



The latest technology IT

Is the H/W, S/W & development language of previously introduced systems incapable of maintaining and supporting systems to be introduced in the future?



Data collection & utilization

It is necessary to make real-time decisions through analysis & efficiency of all the departments such as production, quality, management, etc.



Technology transfer operational personnel

Securing a technology management personnel that can be utilized, operated & maintained after the introduction of the smart factory system.



Change/Crisis management & response

The introduction of informatization and automation leads to changes in the existing business processors.



Cooperative work

Smart Factory requires cooperation with existing clients, new clients, and other partners because machines, facilities, H/W, S/W, and networks must be linked.

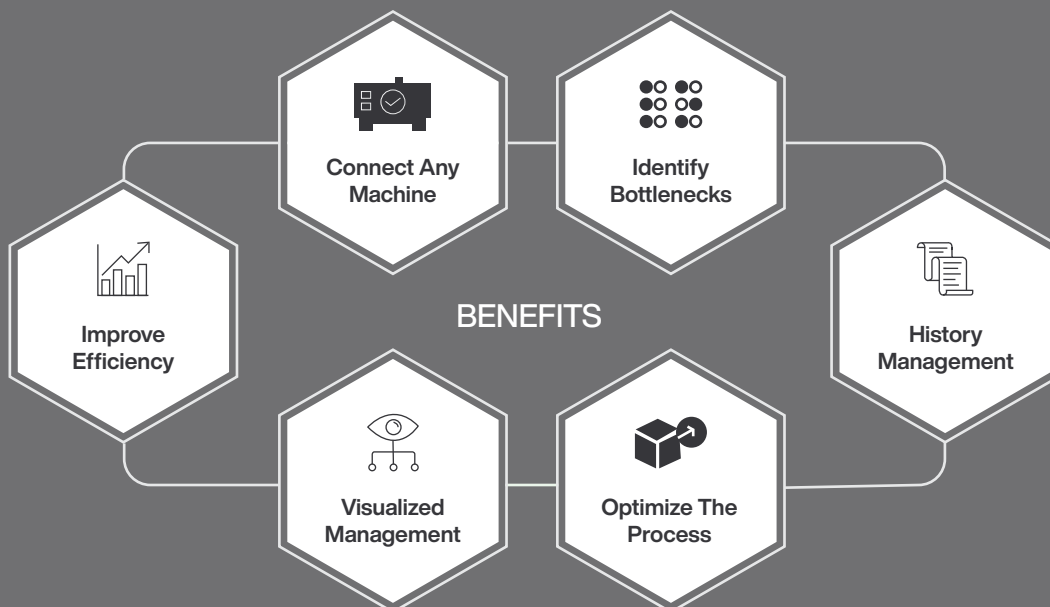
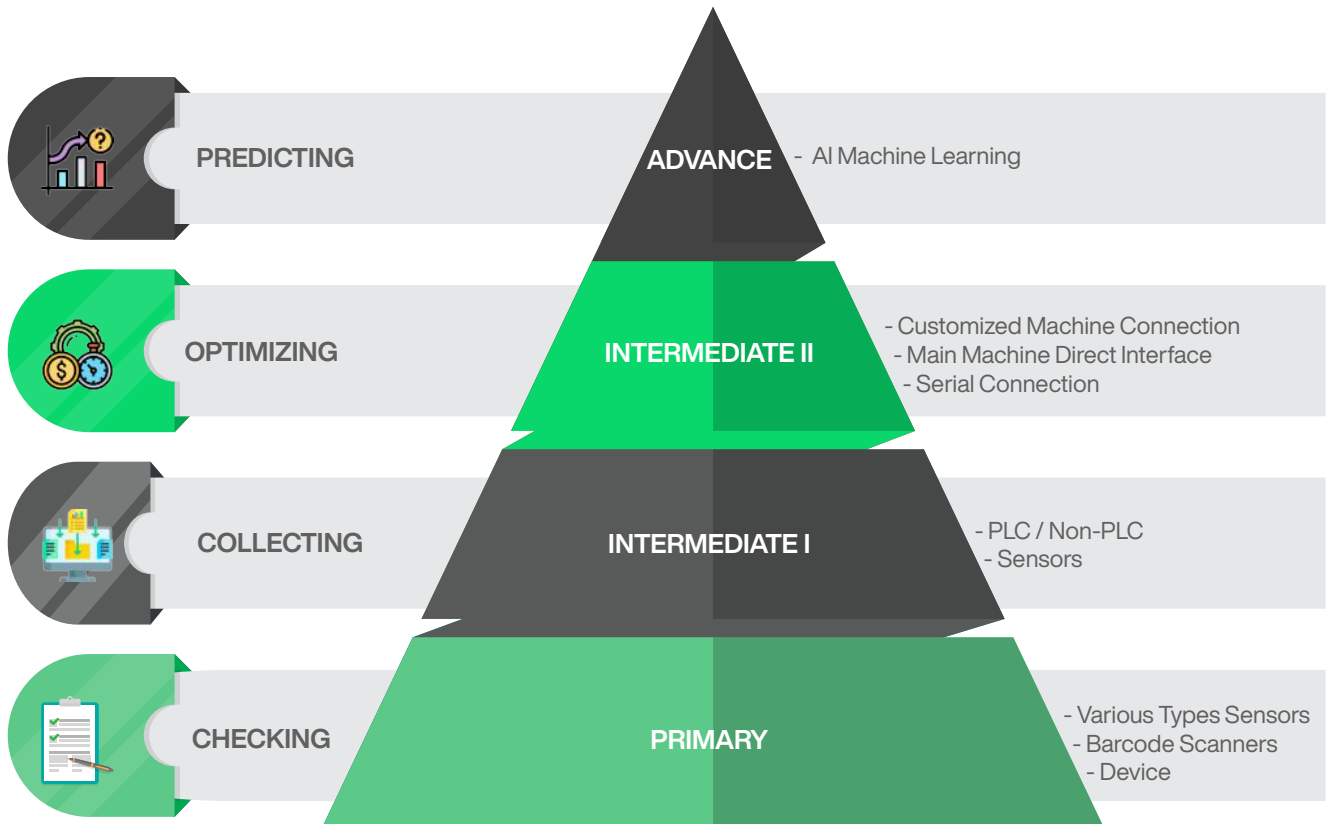
Gx-MES (Manufacturing Execution System)

It is the core of smart factory construction because it allows real-time monitoring and control of manufacturing situations. MES is a field management system that focuses on tracking, status identification, defect management, and inventory management of work history.



Gx-LMS (Line monitoring system)

Line monitoring system helps in showcasing an overall view about the shopfloor. The amount of production plan, production status, produced parts, faults caused during production, parts that are to be reworked on, manhours used etc. Through the dashboard create an environment in which factory whole departments can organically collaborate while viewing production status.



Gx-CAP (Collection-Analysis-Prediction)

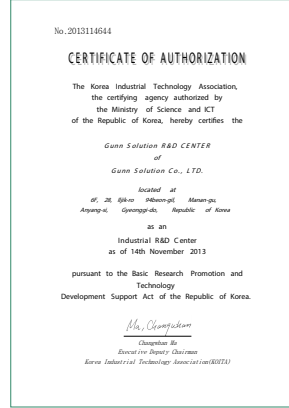


Using data from cutting/processing/production facilities collected in real time through ICT/IIoT/network, we provide data for the current status, prediction/ preservation of processing machines.





S/Korea Government Certificate for RND



India Certificate for development

STPI

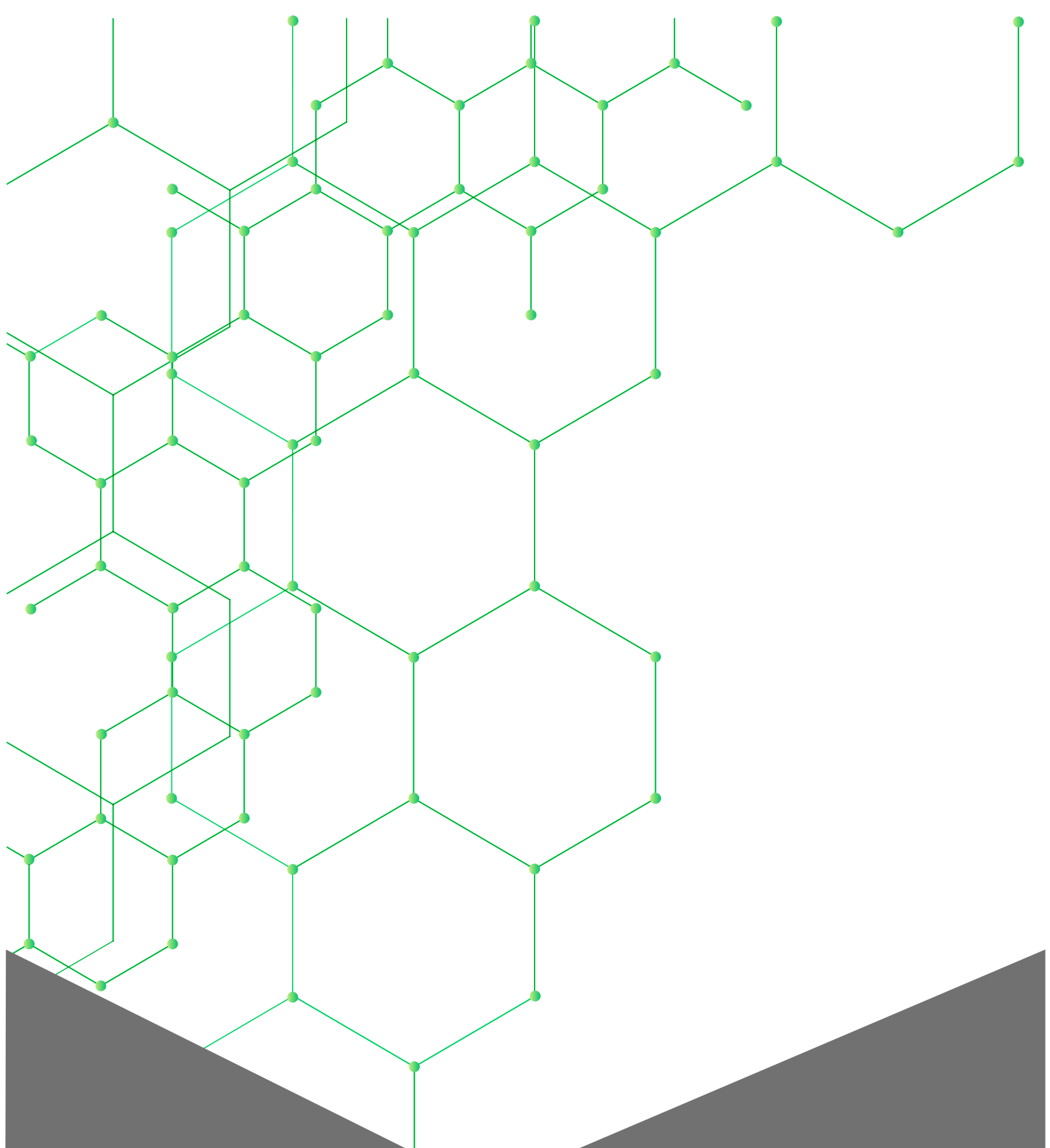


ISO 9001



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