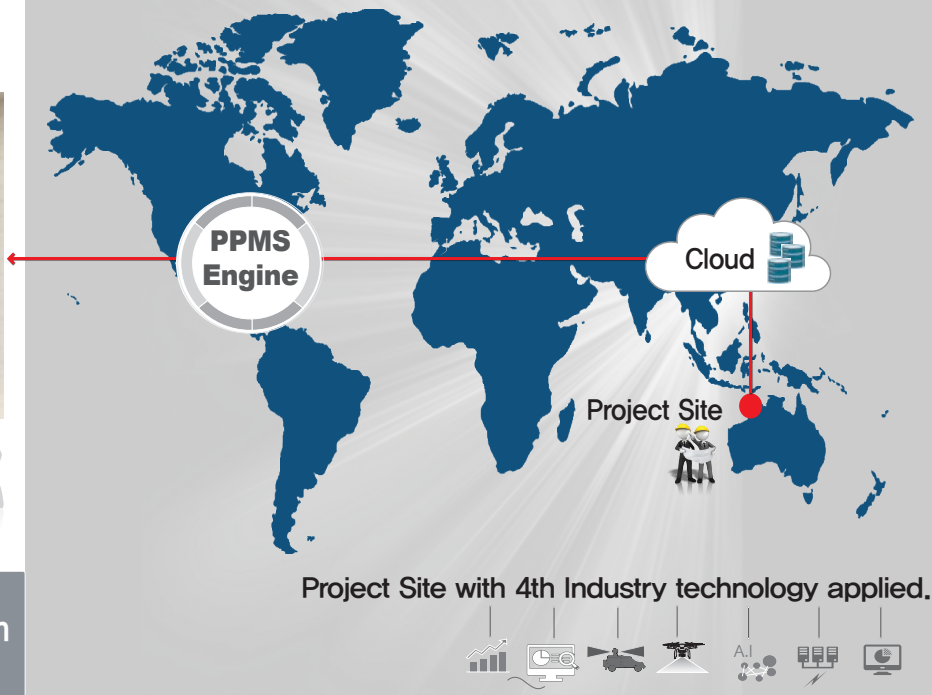


Smart Site Control Center



Web/GIS based 3 dimensional PM Platform



Build the future with MingsPM!

Your Project Management can be digitalized and visualized!



The innovative and unique construction tech platform, PPMS, can bring your construction project into the digital world.

Be efficient on time and budget!

www.mingspm.com

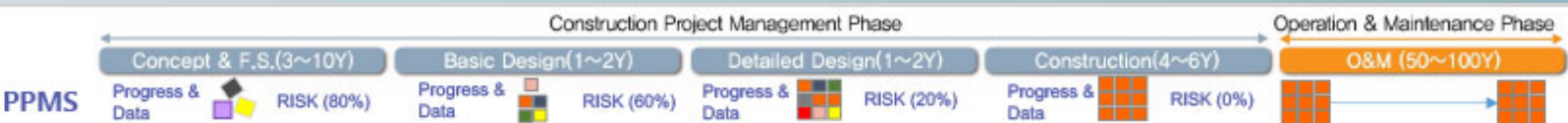


- ☑ Most of construction designs look perfect on computer, however in reality there are many of modifications for various reasons as well as the delays due to civil complaints, delays of land acquisition, delays of building relocation.
- ☑ Especially civil complaints and land compensations, acquisitions, relocations of underground utilities and delays of construction consent can cause tremendous problems even if the project plan was very carefully designed and made.
- ☑ It is very difficult to understand the construction fields because all the data of most construction sites are managed individually.

There are needs for the project management system that can monitor the construction status intuitively, quantitatively and totally.

What is the PPMS?

- ✳ PPMS stands for **P**roactive **P**roject **M**anagement **S**ystem.
- ✳ Web & Cloud & Mobile & 3 Dimension & GIS-based **Project Management Platform**
 - Anywhere, Anytime you can manage and control the construction project
- ✳ Various intelligent technologies can be integrated and managed on **ALL IN ONE PLATFORM**
 - Improve data value by integrating individual element technologies
- ✳ PM Platform for Project Life Cycle Management



→ Consistently manage all Project data from planning to completion, then transfer them to the maintenance Phase.

- ✳ PM Platform with time and cost management as the core
 - Proactive management of actions should be done before performing a specific activity
- ✳ PPMS can make your project fit on time and within budget.

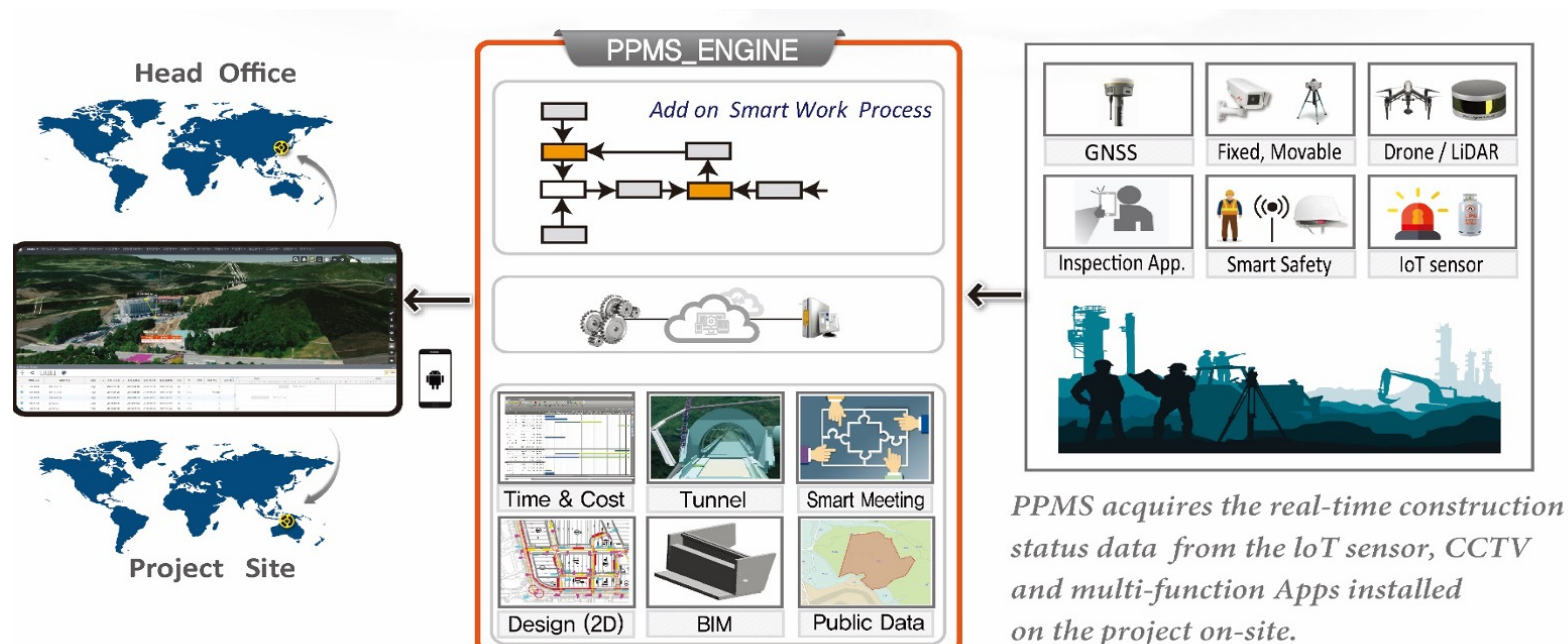
Who uses the PPMS?

- PPMS is a valuable platform for any massive program member or stand-alone project member.
- PPMS provides different information according to each project organization's role and responsibility.



So what's going to happen?

- PPMS engine transforms and visualizes the acquired data from the construction site into intuitive data using the intelligent algorithm.
- And PPMS engine can modify the existing work process and multi-function module made by MingsPM Inc.



Why PPMS?



All stakeholders view, analyze, execute and share the same data because everyone related to the project can work on the same platform.

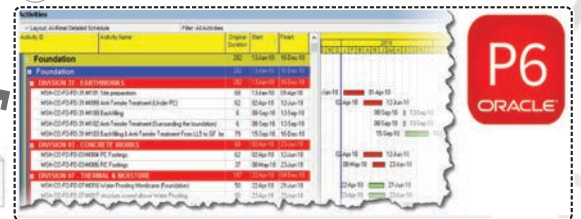


Smart Construction Site Control Center

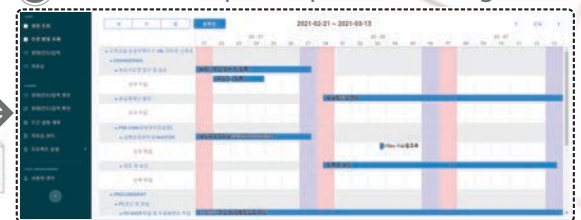


- ④ Possible to manage process through PPMS_Manager Module

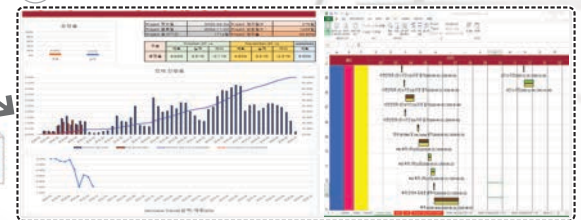
- ① Link to Primavera when purchased the license



- ② Link to the separate process management system



- ③ Excel Based Process Table



06
Big Data → A.I.
(Automation of Work)



01
All In One Platform



05
Digital
Transformation



PPMS
Pro-active Project
Management System

02
GIS-based visualization,
Quantitative proactive
PM



04
Web based Mobile, PC
Cloud Server



03
3D Design (BIM)
3D Map (Point Cloud)



How can PPMS help with my project?

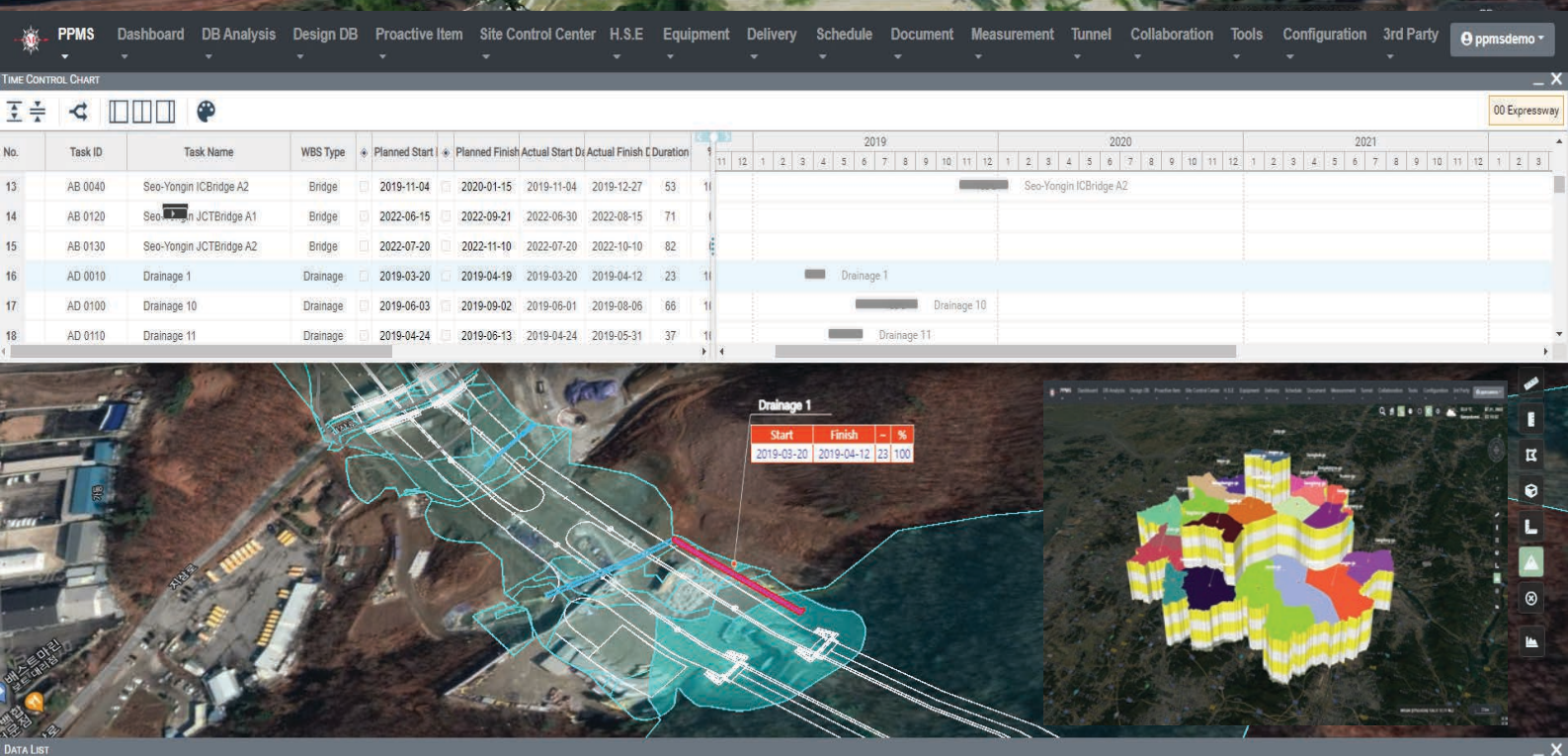
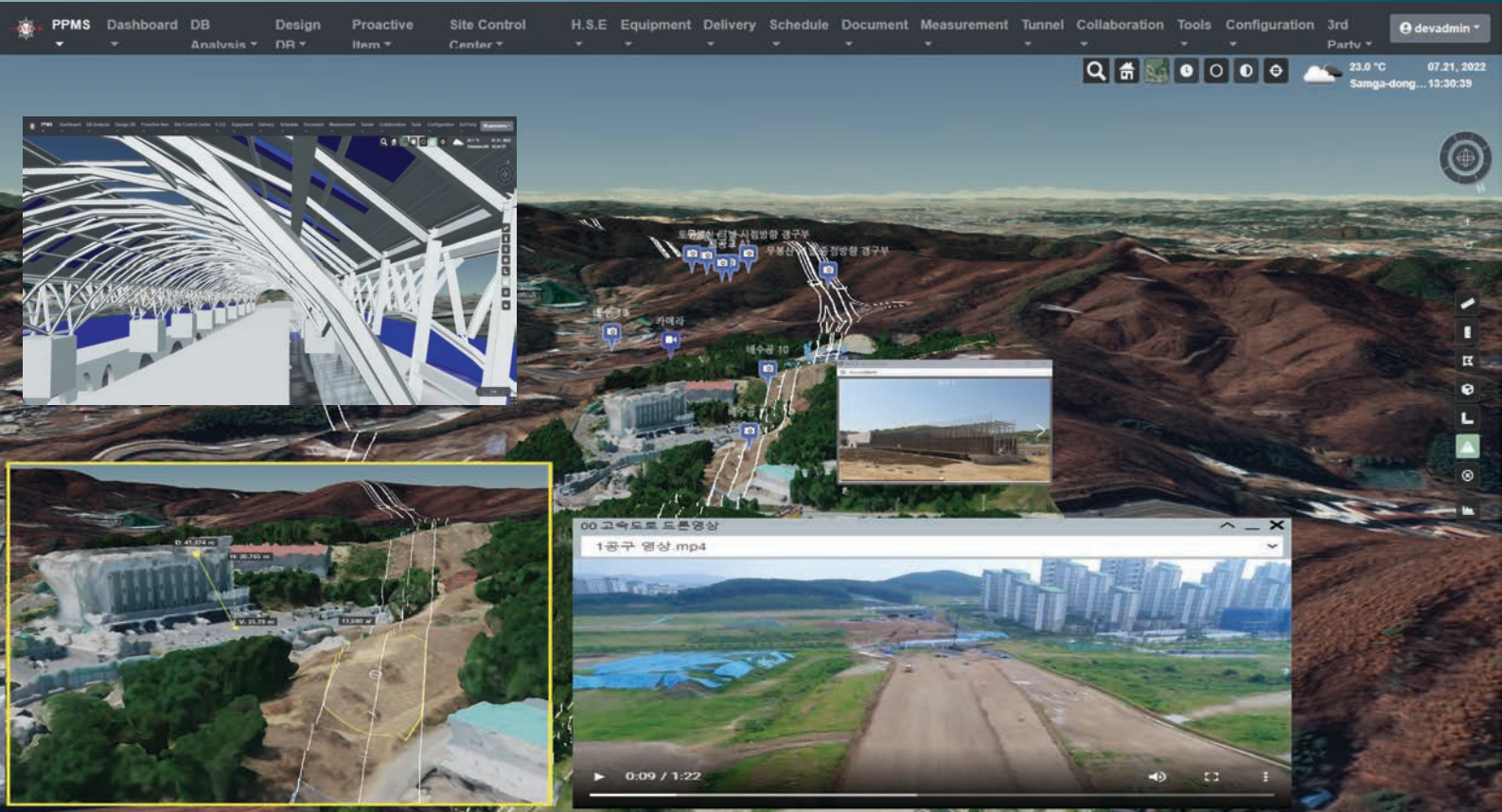
PPMS can seamlessly visualize any construction site to deliver the projects on time and on budget

- ✱ PPMS (Proactive Project Management System) is the specialized project management system which integrate the several advanced functions to the platform to optimize and utilize in the construction projects from the beginning to the end.
- ✱ The construction sites can be managed and controlled more efficiently and effectively preventing unnecessary accidents because PPMS intuitively visualizes the construction site
- ✱ PPMS can proactively plan to optimize the construction projects with more accurate digital data and real-time 3D map because PPMS was designed and made based on the deep understanding and innovative ideas on construction projects.
- ✱ The process engine mounted on the PPMS is linked with PRIMAVERA, and visually shows the position and shape of the activity that cannot be seen through the bar chart.

What can you get with PPMS?

- ▶ Through 3D MAP by Drone surveying, it becomes possible to accurately review the topographical condition of the site more accurately, which is insufficient only by site visits, and calculate the area and cost of the incorporated site.
- ▶ Through the measurement method of BIM and 3D map, you can compare and review the design and construction status in the office without going to a large or long linear construction site.
- ▶ Manage the major construction project delay factors such as site compensation, utility relocation, design change, and public complaints about construction plans.
- ▶ You can perform PMBOK-based project management tasks easily and quickly through PPMS.
- ▶ All project history recording in PPMS will be digitally converted and stored in real-time, so consistent analysis and forecasting are possible for time and Cost management of the Project. In addition, it will transfer to the maintenance system for the project owner at the time of project completion.
- ▶ Through the practical collaboration function of PPMS, you can avoid unnecessary waste of time, money, and effort to do smart work at the project site.





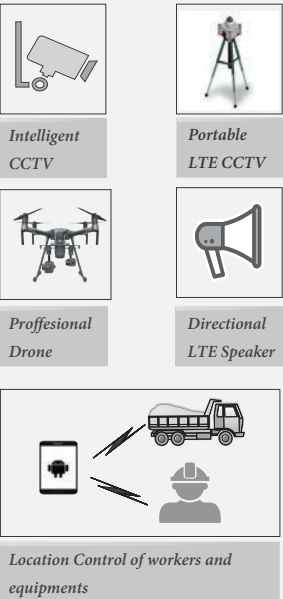
| Land Code | Project Code | PNU Code | State | City | Town | Street | Lot Number | Land Category | Drawing Number | Rights | Owner Name | Owner Address | Ownership | National Plan | Agricultural Land | Mountainous Dis | Total Floor Area | Incorporated Area |
|-----------|--------------|---------------|------------|-------------|---------|------------|------------|---------------|----------------|-----------|------------|---------------|--------------|---------------|-------------------|-----------------|------------------|-------------------|
| LT11670 | 1 | 4146310600101 | Kyungki-do | Yongin-City | Kihyeon | Jigok-dong | 194-2 | Farm | | Ownership | M** | Yongin-City | Private land | | | | 41 | 41 |
| LT11680 | 1 | 4146310600101 | Kyungki-do | Yongin-City | Kihyeon | Jigok-dong | 194-3 | Forest | | Ownership | Y** | 서울 | Private land | | | | 6,278 | 6,278 |
| LT11640 | 1 | 4146310600101 | Kyungki-do | Yongin-City | Kihyeon | Jigok-dong | 193-4 | Forest | | Ownership | M** | Yongin-City | Private land | | | | 8,594 | 8,594 |
| LT11650 | 1 | 4146310600101 | Kyungki-do | Yongin-City | Kihyeon | Jigok-dong | 193-5 | Forest | | Ownership | L** | Yongin-City | Private land | | | | 319 | 319 |

When a construction section is uploaded to this system, the area and lot of land occupied by the construction section are automatically calculated. Likewise, if there is underground utilities data, it automatically calculates which pipelines overlap when constructing.

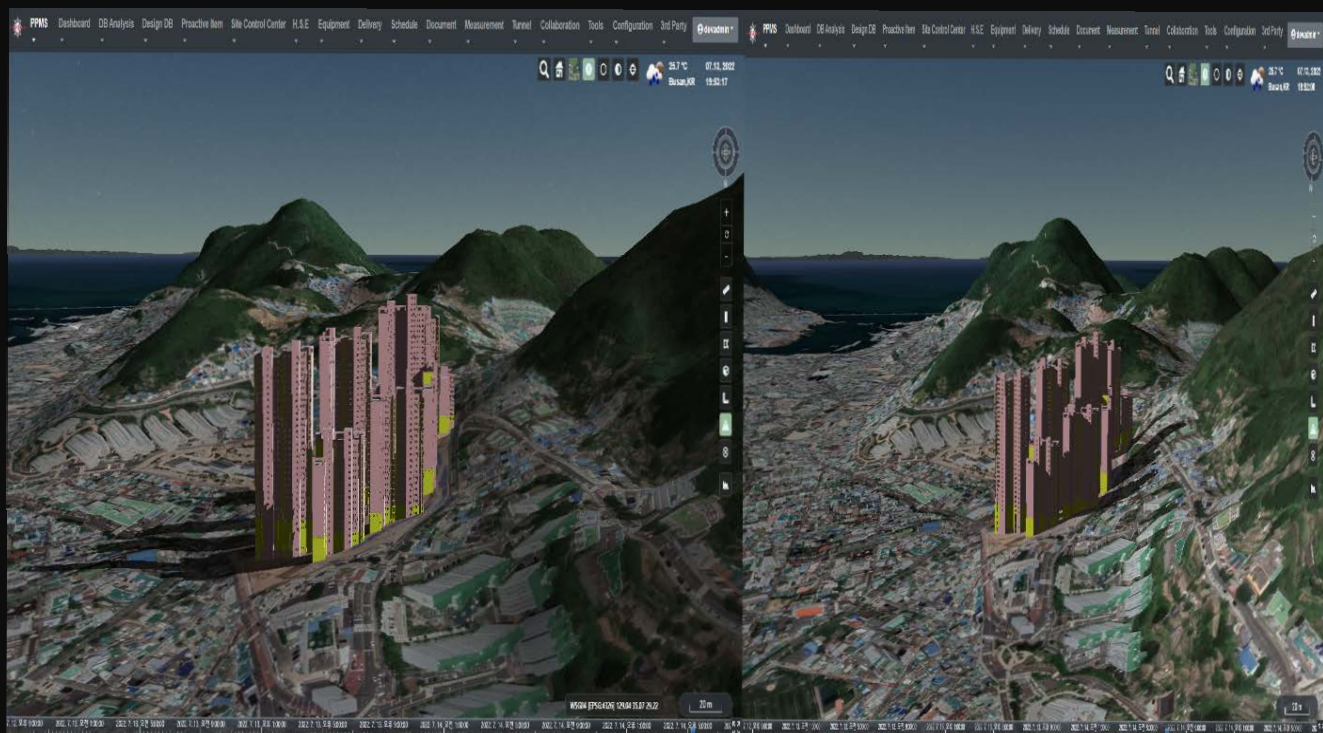
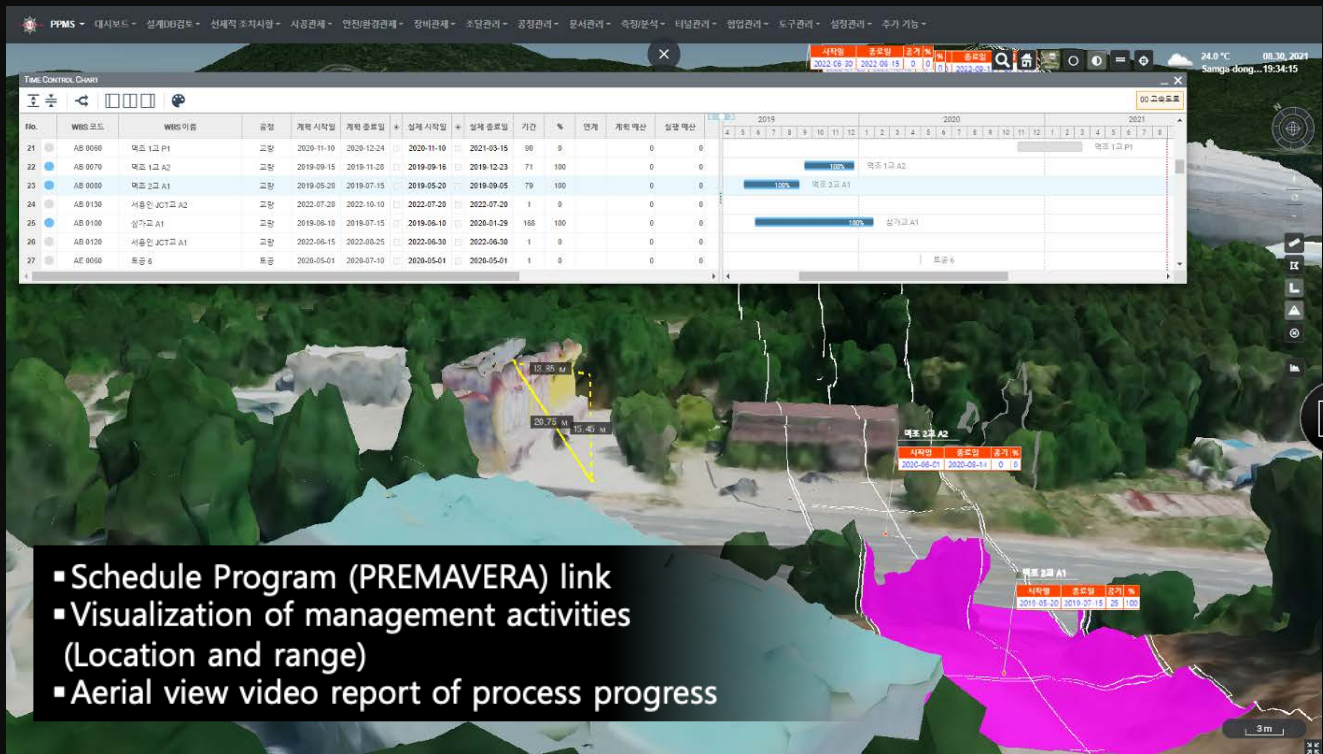




Your construction work on the go



- Photo Manger on construction site
- Real-time Pre-Safety Mangement
- Real-time on-site Inspection Mangement
- Smart Collaboration Mangement
- VR / MR / AR / Metaverse / A.I.





Smart City starts from Infra-Construction Projects ~!



Smart City = **Construction** + IoT + 5G + ICT + Metaverse + ? + ?....
└ Land development + Road + Utility + Subway...

High-quality Infra-construction project starts from an innovative construction management platform.

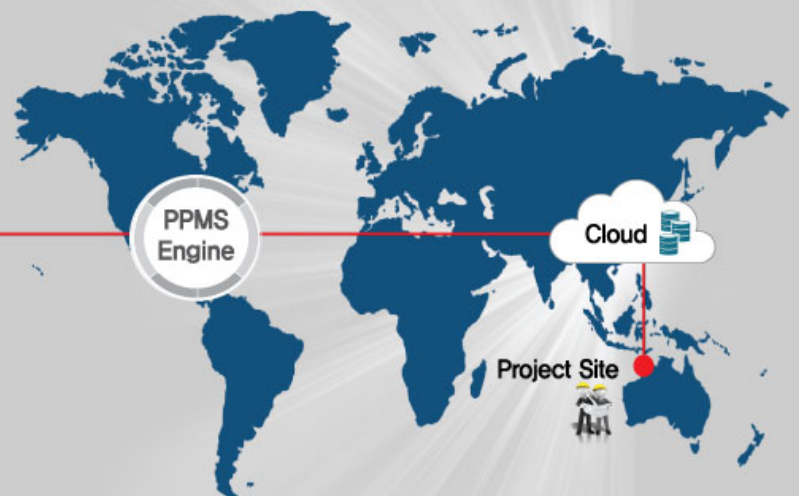
PPMS
Pro-active Project Management System

Smart Site Control Center



Web/GIS based 3 dimensional PM Platform

Anywhere, Anytime you can manage the Project Site !

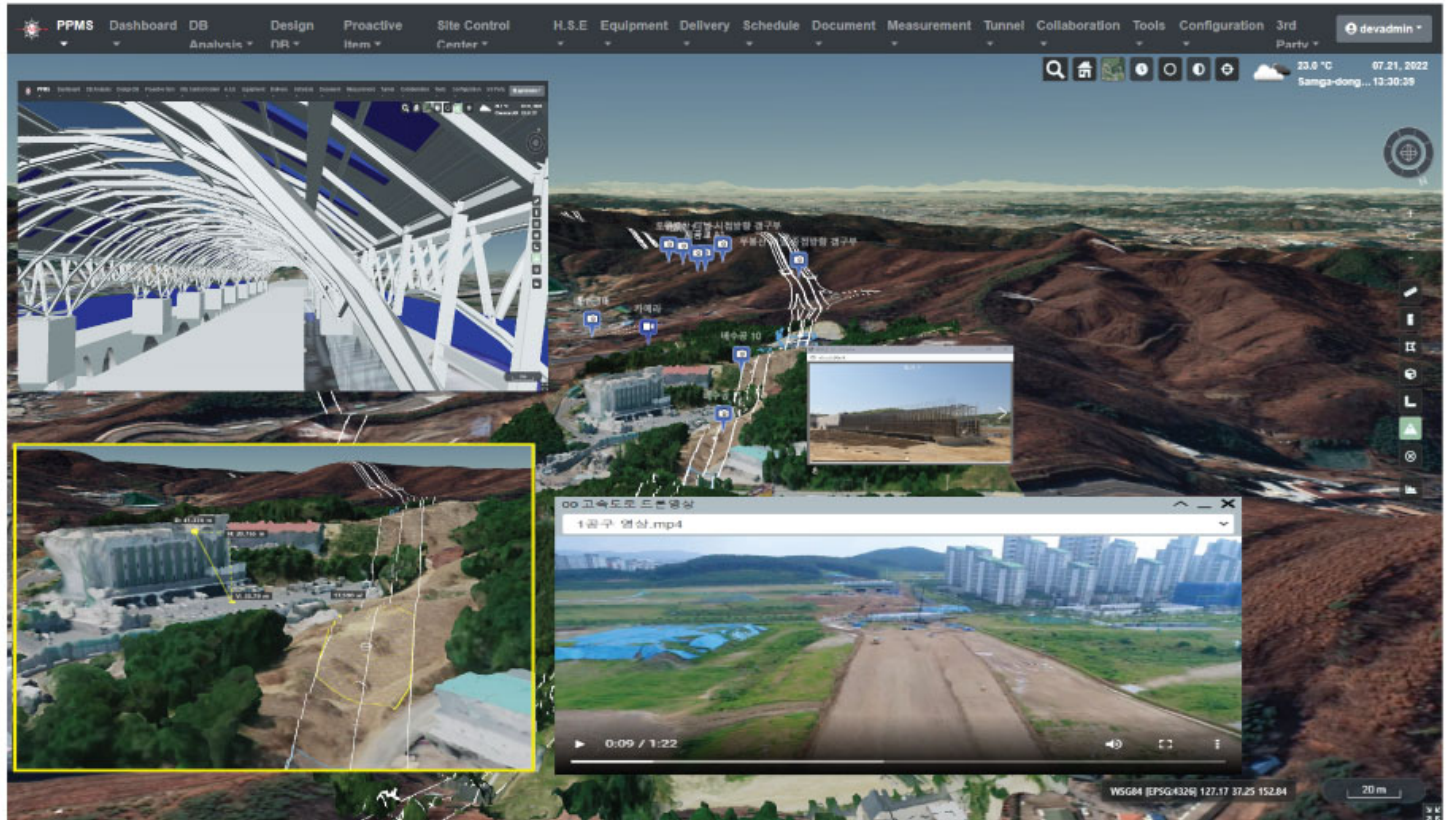


Project Site with 4th Industry technology applied.





PPMS major view



TIME CONTROL CHART

| No. | Task ID | Task Name | WBS Type | Planned Start | Planned Finish | Actual Start | Actual Finish | Duration |
|-----|---------|------------------------|----------|---------------|----------------|--------------|---------------|----------|
| 13 | AB 0040 | Seo-Yongin ICBridge A2 | Bridge | 2019-11-04 | 2020-01-15 | 2019-11-04 | 2019-12-27 | 53 |
| 14 | AB 0120 | Seo-Yongin ICBridge A1 | Bridge | 2022-06-15 | 2022-09-21 | 2022-06-30 | 2022-09-15 | 71 |
| 15 | AB 0130 | Seo-Yongin ICBridge A2 | Bridge | 2022-07-20 | 2022-11-10 | 2022-07-20 | 2022-10-10 | 82 |
| 16 | AD 0010 | Drainage 1 | Drainage | 2019-03-20 | 2019-04-19 | 2019-03-20 | 2019-04-12 | 23 |
| 17 | AD 0100 | Drainage 10 | Drainage | 2019-06-03 | 2019-09-02 | 2019-06-01 | 2019-09-03 | 66 |
| 18 | AD 0110 | Drainage 11 | Drainage | 2019-04-24 | 2019-06-13 | 2019-04-24 | 2019-05-31 | 37 |

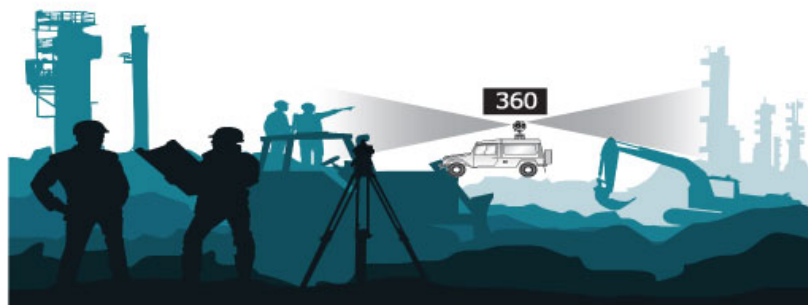
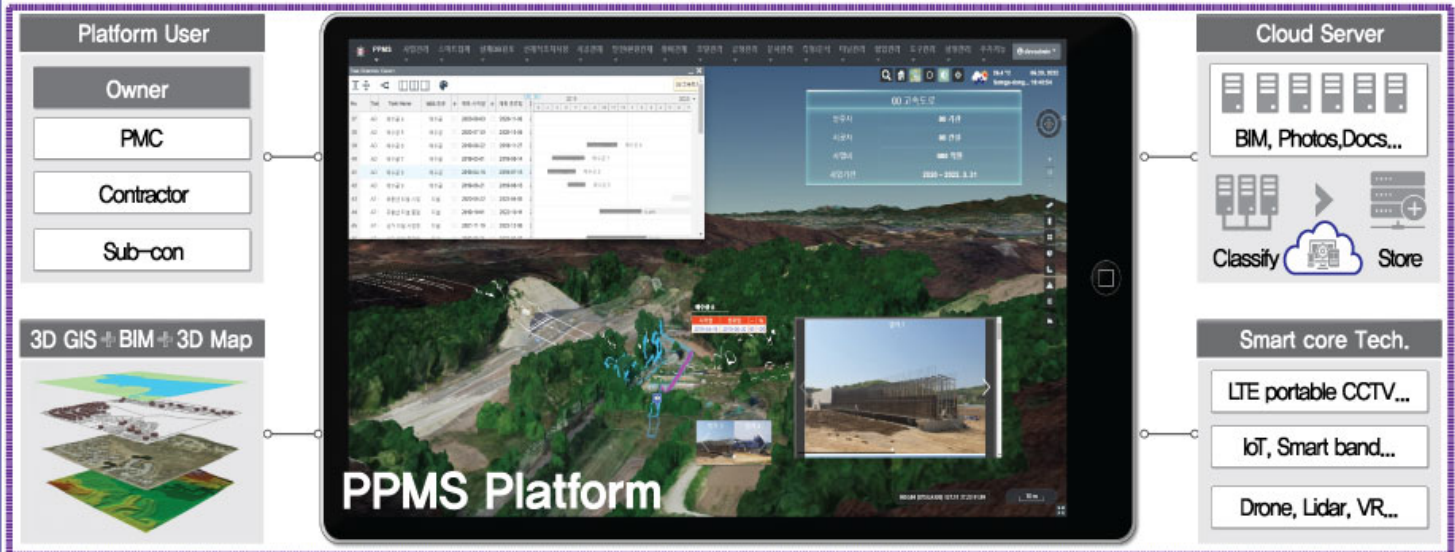
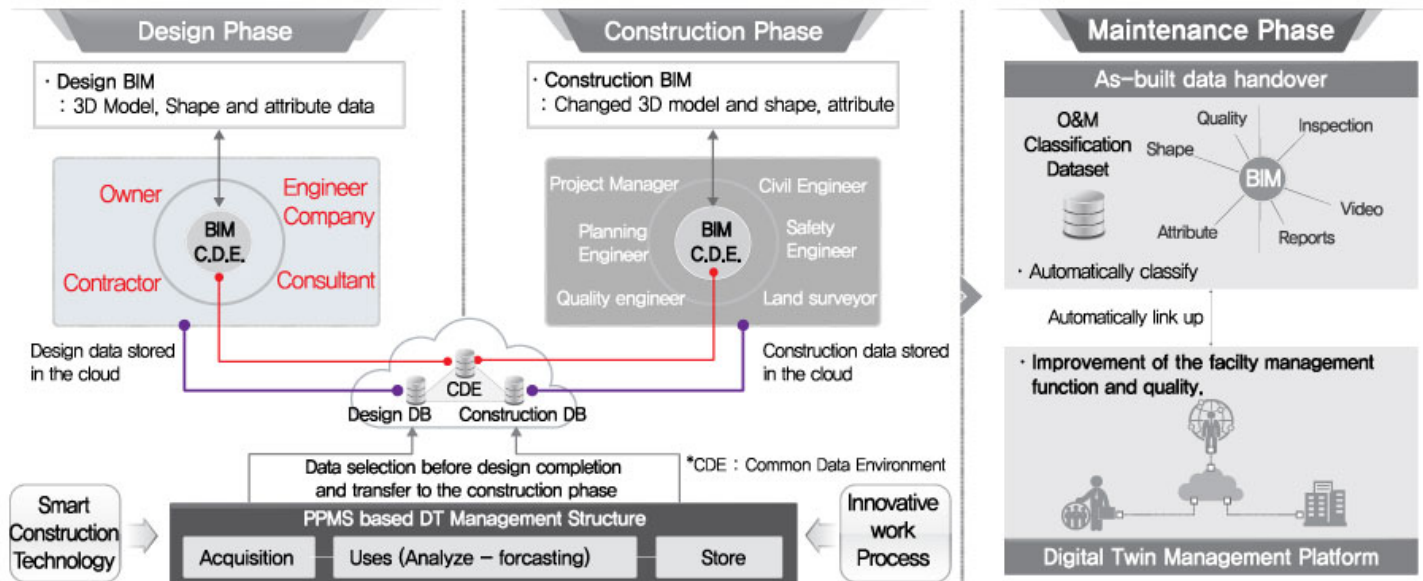


DATA LIST

| Land Code | Project Code | PNU Code | State | City | Town | Street | Lot Number | Land Category | Drawing Number | Rights | Owner Name | Owner Address | Ownership | National Plan | Agricultural Land | Mountainous Dis | Total Floor Area | Incorporated Area |
|-----------|--------------|---------------|------------|-------------|------|------------|------------|---------------|----------------|-----------|------------|---------------|--------------|---------------|-------------------|-----------------|------------------|-------------------|
| LT11679 | 1 | 4146310600101 | Kyungki-do | Yongin-City | Khy | Jigok-dong | 194-2 | Farm | | Ownership | M** | Yongin-City | Private land | | | | 41 | 41 |
| LT11680 | 1 | 4146310600101 | Kyungki-do | Yongin-City | Khy | Jigok-dong | 194-3 | Forest | | Ownership | Y** | 서울 | Private land | | | | 6,278 | 6,278 |
| LT11640 | 1 | 4146310600101 | Kyungki-do | Yongin-City | Khy | Jigok-dong | 193-4 | Forest | | Ownership | M** | Yongin-City | Private land | | | | 8,554 | 8,554 |
| LT11650 | 1 | 4146310600101 | Kyungki-do | Yongin-City | Khy | Jigok-dong | 193-5 | Forest | | Ownership | L** | Yongin-City | Private land | | | | 319 | 319 |



Digital Transformation based Smart construction site management during the Project Life Cycle.



Work Smarter, Not Harder with MingsPM!

MingsPM Inc.

