

BIM with Innovation



BIM-based Digital Construction Project Management Platform

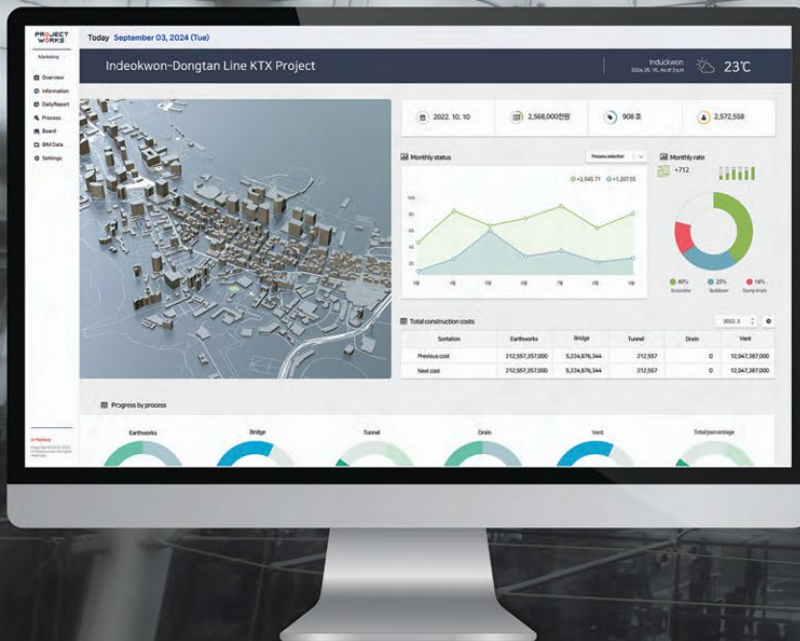
Provides innovative technological access to planning, construction, management and maintenance of construction projects



PROJECT WORKS

"Project Works" is the first BIM 4D/5D integrated construction management platform in Korea that integrates progress and payment management based on BIM models, enabling seamless collaboration in construction projects.

"Project Works" is a key technology driving innovation in the construction industry, providing a powerful platform that enhances efficiency and accuracy at every stage of a project. With "Project Works," you can reduce risks, lower costs, and shorten project timelines.



"Project Works" systematically manages the progress and costs of construction projects and plays a key role in ensuring project success.

The purpose of "Project Works" is to facilitate data-driven decision-making across the construction industry, improving project quality and strengthening collaboration among participants.

By providing "Project Works," which enables multiple stakeholders to collaborate in real time, it serves as the optimal construction management platform to increase efficiency, ensure transparency, and mitigate risks such as budget overruns and schedule delays at every stage of the project.



Optimization of progress management and BIM simulation capability (BIM Viewer)

Simulate the entire project progress, proactively identify potential problems or risks, and ensure the project stays on track as planned.



Progress payment management through quantity takeoff.

In addition to progress management, monitor the costs incurred at each stage of the project. Manage cost fluctuations caused by various factors such as material prices, schedule changes, and more.



Enhance collaboration and increase communication efficiency.

Project stakeholders share real-time, up-to-date information. Ensure consistency and accuracy in decision-making.



Mitigate risks and enhance project success rates.

Coordinate progress and costs across all phases of the project. Anticipate risks in advance and develop strategies to mitigate them.



Enhance project quality.

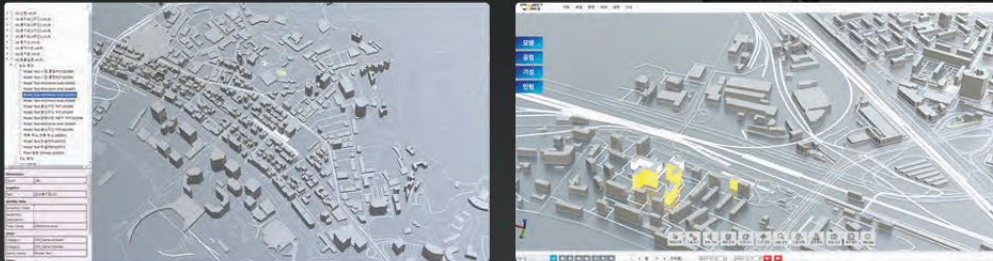
Integrated management of the overall progress and costs. Improve the overall quality of the project.

Features

“ The adoption of "Project Works" has reduced c

GIS-Based BIM Viewer

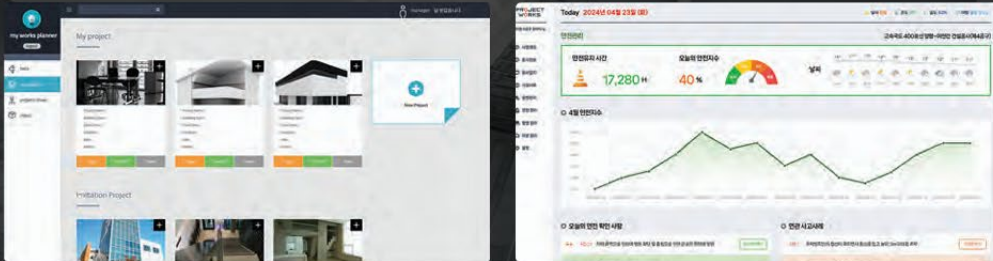
BIM information check/coordinate/distance measurement/ collaboration capability



BIM Data Lightweight / Web-based BIM Viewer enables BIM models to be simulated
Conveniently check object information such as distance measurement and inspection/provide
collaboration among project participants

Quality and Safety Platform

Developing a quality and safety platform based on Paperless



Quality check management by BIM-based process / Comparison with BIM model / Quality check and supplementa-
tion / Integrated dashboard provided / Safety rules required for the relevant process / Safety manager

Cloud-based services

BIM Object Information Interworking and Visualization



It can be used directly from a web browser without installing additional software, enabling high-capacity
BIM model simulation / A responsive platform that can be used on any computer

reduced construction management time and proven its practicality in the field.

Process and Construction Cost Management

Process step definition, process management, construction cost management

Task Name	Start Date	End Date	Progress (%)
1. Site Preparation	2023-01-01	2023-01-15	100%
2. Foundation Work	2023-01-16	2023-02-01	80%
3. Structural Framework	2023-02-02	2023-03-15	60%
4. Interior Finishing	2023-03-16	2023-04-30	40%
5. Exterior Finishing	2023-04-01	2023-05-15	20%

Project process level definition / Visualization of the BIM model for each stage / Visualization of construction performance / Project progress / In conjunction with BIM data, management / Preparation of construction cost reports for each stage

Document Management Features

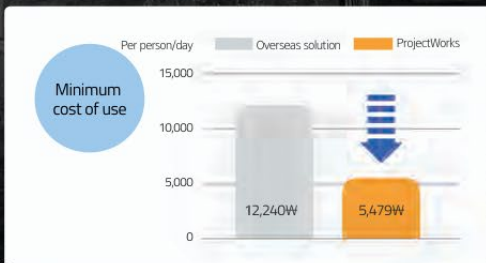
Integrated document management and real-time updates

Document Type	Amount	Date
1. Design	2,187,000.00	2023-01-15
2. Contract	2,472,000.00	2023-02-01
3. Construction	2,194,000.00	2023-03-15
4. Reporting	860,000.00	2023-04-30
5. Other	18,974,000.00	2023-05-15

Integrated management of multiple documents, including design drawings, contracts, and reports, in one place / Administrators can specify and manage document classification categories and print daily report / construction cost documents

Gain price competitiveness over other solutions

Lower the cost of using the platform and increase the effectiveness



"Project Works" which understands the specificity of the construction site situation and sets a reasonable price to lower barriers to entry to the platform, is a competitive platform with lower user fees and higher effectiveness compared to other solutions.

Overview

Subcontractor



(Project) Owner

Construction inspection and report management

Check Process information
Site Management Dashboard

Strengthening collaboration and communication

BIM & Process Management

Provide an integrated dashboard for comparing planned versus actual performance, with BIM object data and visualization (Viewer).

BIM models can be simulated using the viewer. Object coordinates and distances can be measured within the viewer. Process steps can be defined with Level 5 to 7 settings.

Process file registration management (Excel upload, system registration). Process file initialization is possible (project reset). Compare process status for last year, current year, and overall. Process plan scheduling.

Report Management

Develop report screens with the same UI/UX as the reports in use, customized for each project owner and contractor.

Provide PDF and print support for reports, including cover pages and internal content, with automatic calculation of required data before printing.

01

BIM Model
Construction Process
Registration and
Management

Construction
daily report

04



PROJECT
WORKS

Project) Owner



General contract

Work Process information
Management Dashboard

Convenient process and cost management

and communication through Project Works.

02

Construction daily
creation editing
and printing

Construction daily report management

Dashboard for comparing planned versus actual progress, with progress rate graphs. Administrators can create, modify, and delete daily construction reports.

Registration of work details by process (BIM model image insertion). Check progress by process (displayed as a graph).

Batch processing for the same process tasks is possible.

Register major work details, personnel, equipment, and materials by date.

Construction daily reports can be generated and printed (PDF, Print).

Construction
cost approval editing
and printing

03

Construction cost management

Dashboard for comparing actual construction costs against planned costs. Construction costs are automatically generated based on performance when writing a work log. Managers can register, modify, and delete construction costs.

When submitting a payment application, both Excel file uploads and manager registrations are possible. A two-stage data verification process is established for registered construction costs.

File re-registration and verification processes reduce the likelihood of errors. Construction cost reports can be generated and printed (PDF, Print).



PROJECT
WORKS

Application Areas

High speed rail, Subway



When "Project Works" is used in railway construction projects, the sequence of processes such as tunnel excavation, rail installation, and signal system construction can be simulated based on time and schedule. This allows for the establishment of process workflows, optimization of construction periods, monitoring of work progress, and the ability to identify and respond to schedule delays or risks.

Roads, Bridges, Tunnels



Roadworks involve various processes, such as bridge construction, pavement, and the installation of soundproof walls. Using Project Works, these processes can be simulated over time to establish an efficient workflow between tasks.



Port, Port facility



Port terminal construction involves more complex processes, such as pier expansion and crane installation. "Project Works" simulates these operations according to the schedule, establishing processes with minimal impact on terminal operations. By simulating the placement of large-scale equipment on a scheduled basis, it optimizes the sequence of operations and efficiently manages equipment deployment.

Building



In large building construction, processes such as structural work, exterior construction, and interior installation are intricately intertwined. "Project Works" optimizes the construction sequence of each process and efficiently manages the overall project schedule. It also enables all stakeholders to collaborate on the same model, facilitating smooth communication between the design, construction, and management teams.



Our Company

Build a digital ecosystem that supports the success of your projects and enables all stakeholders in the construction industry to collaborate effectively.

"CI-Factory" is a specialized company in the development of BIM (Building Information Modeling)-based software and solutions, leading the digital transformation of the construction industry. We provide a wide range of solutions aimed at integrated management and optimization using BIM technology across architectural, civil engineering, and infrastructure projects.

Through the development of customized programs tailored to the needs of our clients, we strive to maximize efficiency, reduce costs, and enhance risk management throughout every phase of the project, from design and construction to operation and maintenance.

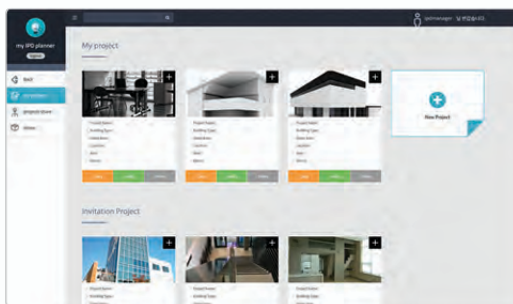
Surpassing the limits of traditional construction processes, our 4D and 5D management solutions based on BIM technology enable a complete digital transformation and set new standards for project management, particularly excelling in project scheduling and cost management.

Ongoing Project & Next Level

The next level of BIM-based platform being developed by CI-Factory.

Together with "Project Works", we are doing our best to enable more systematic and stable operation of construction projects.

Quality



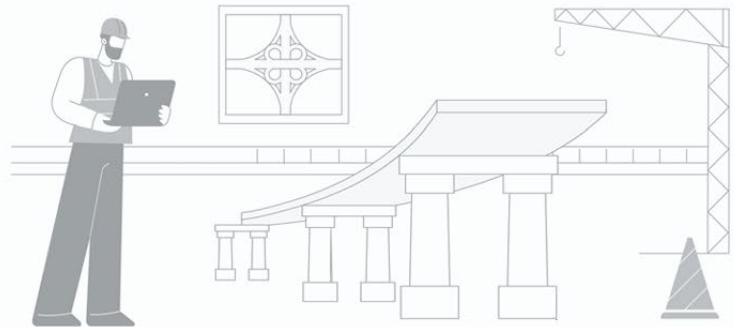
Safety



In addition, we are developing a quality, inspection, and safety platform using BIM technology based on Project Works. In conjunction with Project Works, we are creating a more efficient and stable integrated management platform for construction projects.

"Ci-Factory" is dedicated to leveraging BIM technology to enhance environmentally friendly design and improve energy efficiency for the sustainable development of the construction industry. Through these efforts, we aim to reduce long-term operational costs and actively participate in environmental management.

"CI-Factory" builds long-term partnerships with customers based on trust and delivers successful outcomes in construction projects such as roads and railways. We are preparing for the future of the construction industry through continuous R&D and innovation, staying aligned with ever-evolving industry trends.



inspection

건설사업관리 시스템 - 검측요청서

검측요청서

번호	검측요청일	2015. 11. 05
부서	SH 아라리오 공사 책임건설사업관리 기술자 홍길동	
목적	질문	세부요율
위치	S75 00 100	별첨자
검측부위		
검측요청일시	2015. 11. 05	
검측사명		
검측직원	김민석	홍길동

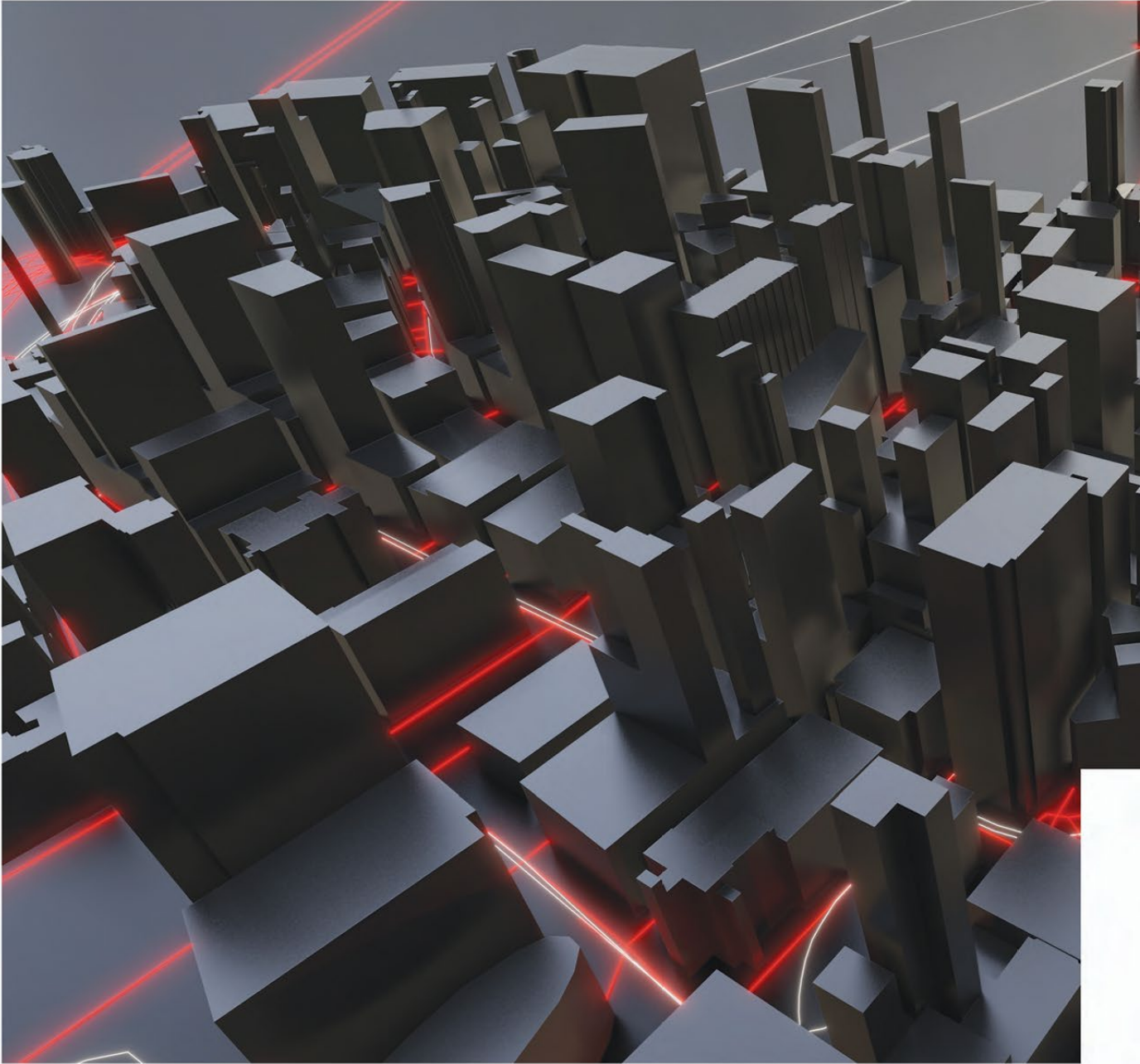
검사자명: 김민석 요청: 홍길동

입사자명: 김민석 요청: 홍길동

입력 완료

Design Works





3F, 10, Nonhyeon-ro 75-gil, Gangnam-gu,
Seoul, Republic of Korea
CI FACTORY
Telephone: +82-70-4667-5784

<https://www.ci-factory.com>