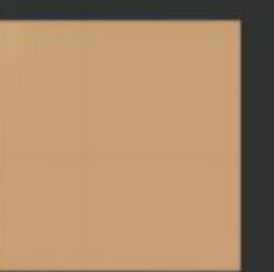
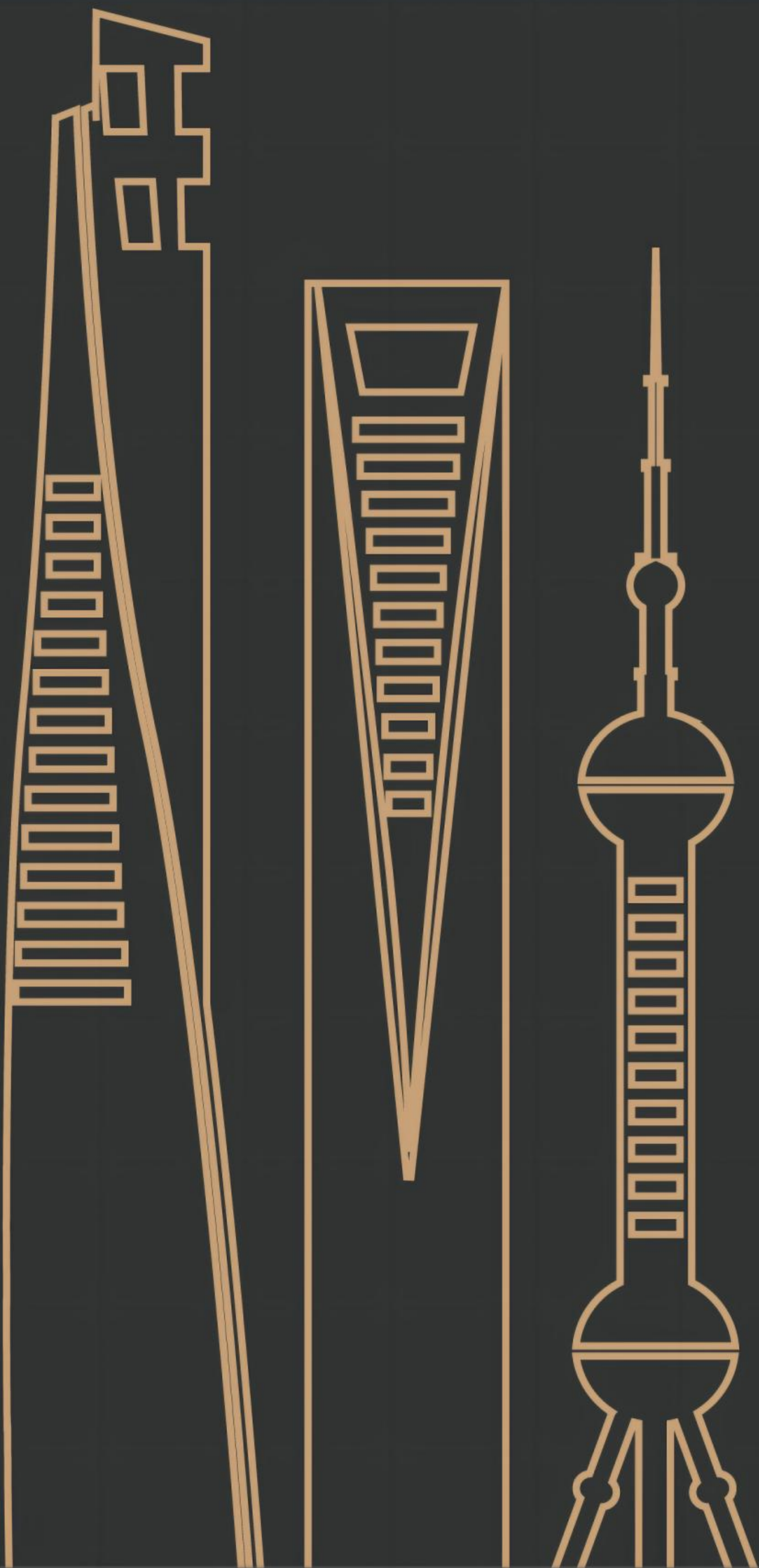


SMARTBIM

慧之建

Empowering digitalization in the AEC industry



CATALOG

1

Company profile

2

Project consulting

3

Product R&D

4

Education
&
Training

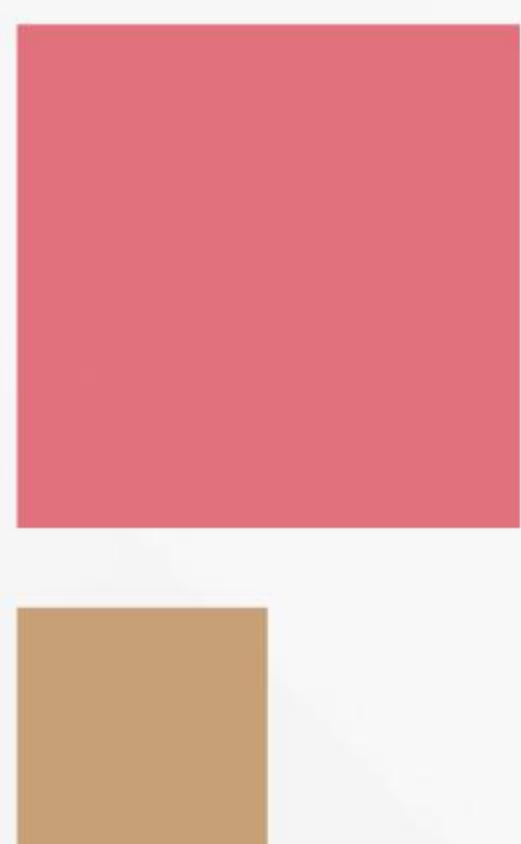
1 Company profile



SmartBIM is a high-tech enterprise specializing in engineering digitalization services based on BIM technology and AI application, with a professional team of nearly 100 people, focusing on BIM and digitalization-related project consulting, product development, education and training.

The company is headquartered in Shanghai, with branches in Chengdu, Wuhan, Jinhua and other places, the company's BIM engineering and digital development projects start from the Yangtze River Delta region, and gradually expand to Southwest China, South China, Central China, North China and other parts of the country, such as the Shanghai Tower, Shanghai Disneyland, Shanghai Railway Transit, Shanghai Zhangjiang Industrial Park, BASF Zhanjiang Verbund site, Suzhou Zhongnan Center, Chongqing East Railway Station, Xiongan New Area Xiaoli Railway Station, etc..

Since its establishment in 2012, SmartBIM has been focusing on the promotion and application of BIM technology in the AEC industry. We hope to work together with our clients to create a model for digitalization and application in the engineering and construction industry.



Process

2023~

Restructuring and upgrading



Join Tongji Science & Technology to cater to the diverse needs of the smart construction era on a newer and larger platform, empowering customers' digital management, application and transformation.

2013-2017

Significant Projects



Signed contracts with Hongqiao Lippo, Shanghai Disney, Digital Campus, Foreshore Center and other iconic projects.

2006-2011

Formation of the team



Established one of the earliest BIM teams in Shanghai, and was also the earliest professional and technical team to participate in the Shanghai Center Building.

2012

Company Establishment



The company was formally established and contracted to undertake BIM consulting and R&D for rail transportation and other businesses.

2018-2022

BIM Solutions



Strengthening R&D strength, forming a total BIM solution with three major businesses of BIM consulting, R&D and training, and providing engineering digitalization services for customers.

Professional members



Yuken YING

- Ph.D., Civil Engineering, Tongji University
- Expert of Shanghai BIM committee
- Over 23 years experience in BIM consulting



Xinjian FU

- Senior expert in BIM research and development
- Former manager of Autodesk China R&D Center
- Has a number of software invention patents



Hongwei WANG

- Former Senior engineer of Autodesk China R&D Center
- Rich experience in BIM development and management



Yuliang YING

- One of the earliest BIM consulting engineers in China
- Participated in the BIM implementation of key projects such as Shanghai Tower and Shanghai Disneyland



Hui LI

- National BIM Skill Level Exam evaluator and Autodesk certified AAI instructor.
- Trained BIM engineer exceeds 1,000



Jin JIN

- Master of IT in Architecture, Kyung Hee University
- BIM expert granted by Shanghai Yangpu District and Pudong New District
- Former BIM Lead of Universal



Nan SHENG

- Participated in and presided over more than 50 different types of BIM projects in rail transit, infrastructure and other fields
- Participated in the standard preparation of Shentong Group, Lujiazu



Liang SHEN

- Have experience in BIM implementation and management of commercial complex, hospital etc.
- Responsible for Suzhou Zhongnan Center, Nine Trees Shanghai Future Art Center and other landmark



Jianjun HE

- Former BIM manager of China Construction Eighth Bureau
- Responsible for the Shanghai National Convention and Exhibition Center, Shanghai Disneyland and other projects

Honors



400+
Contracted Projects

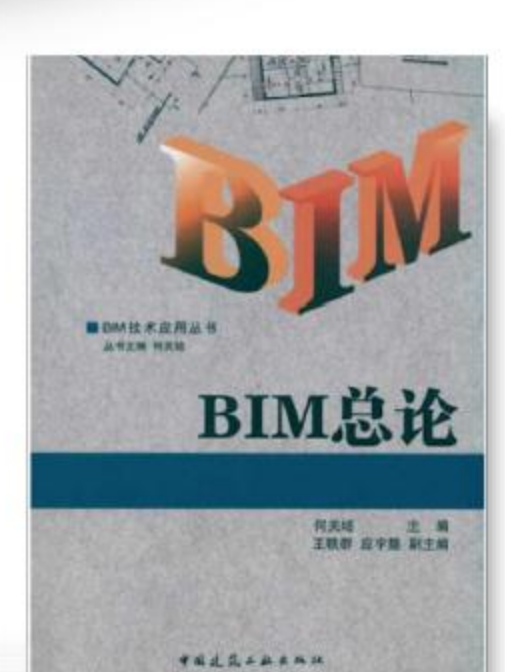
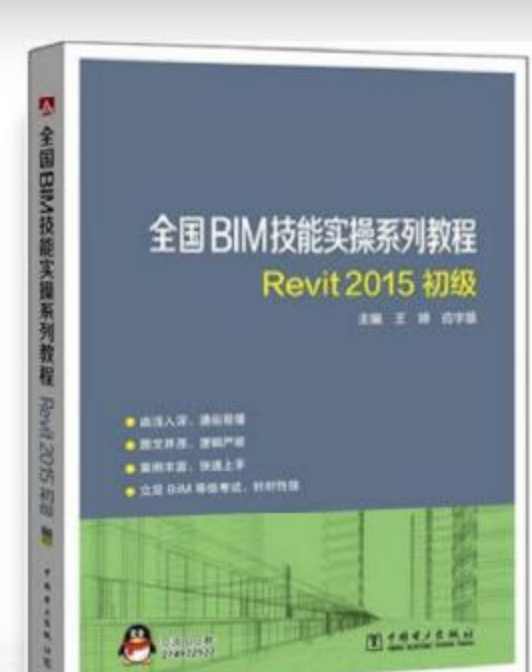
100 million+
Sq. ft. service area

80+
Patents
Software literature

8000+
Certificated Student

High-tech enterprise / Software products & software enterprise evaluation
Technology-based and Innovative Small and Medium-sized Enterprises
Shanghai SRDI enterprises
Shanghai Yangpu District Science and Technology Small Giant
ISO Quality Management System Certification

3 BIM books
10+ standards and research project
50+ BIM provincial and above industry awards
100 million+ square meters of service area
80+ patents and software copyrights
400+ service contracts
.....



Cooperative partner and contents

Owners



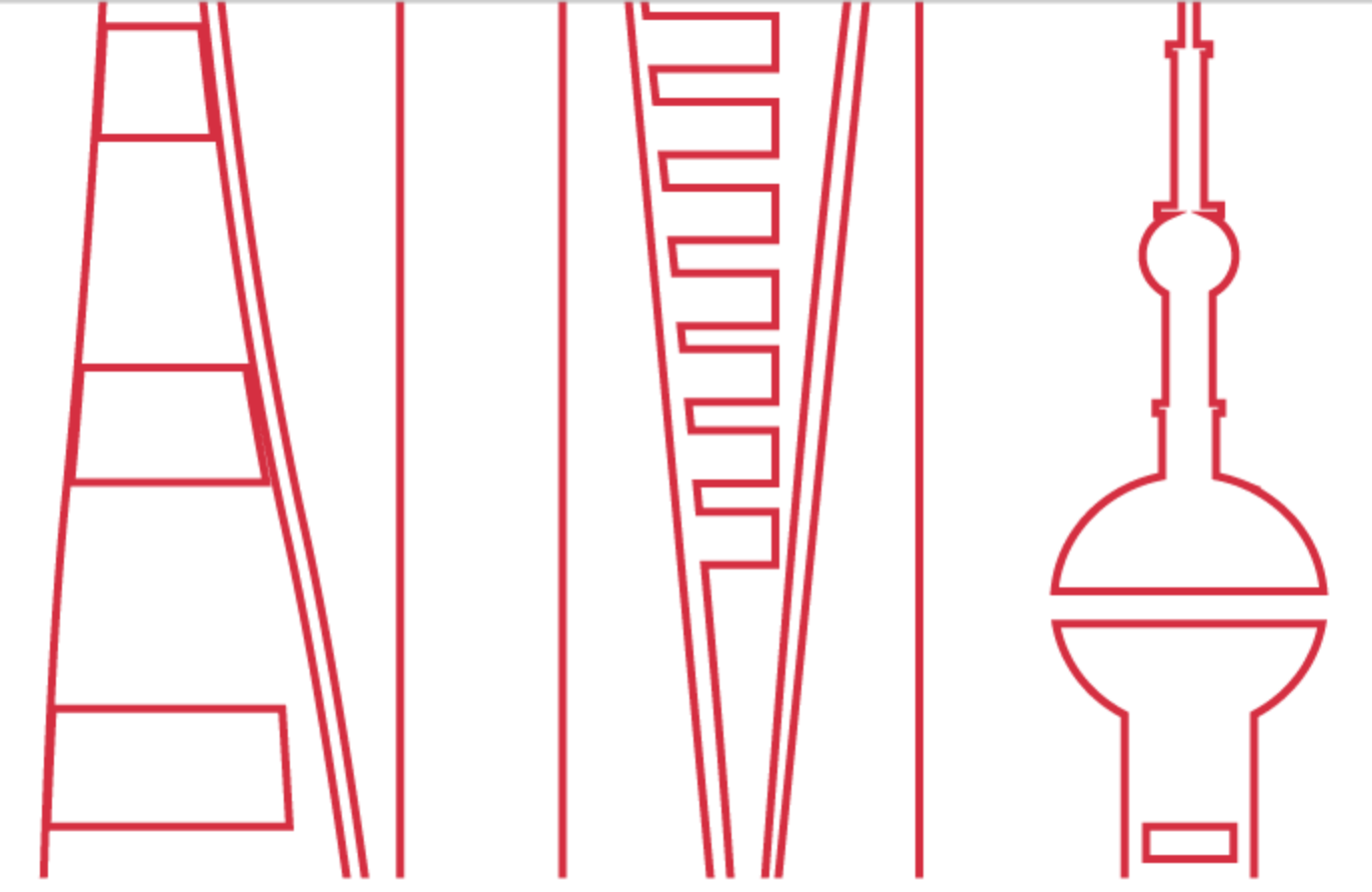
Design / Construction



Educational Institution



SmartBIM adheres to the mission of "empowering digitalization", and provides digitalization services for the whole process of "design, construction, operation and maintenance" for many enterprises to help their projects. At the same time, SmartBIM has established close "industry-academia-research cooperation" with famous state-owned enterprises, design institutes and universities, which has been widely recognized and praised by customers!



Project Consulting

Provide BIM as the core of the project digital consulting services, more than ten years of services covering municipal engineering, ultra-high-rise, commercial, residential, campuses, venues and culture, hospitals, religious buildings, historical preservation of buildings, theme parks, etc., the process of the project has accumulated a wealth of consulting experience.



Software Development

In the field of Revit tool development, digital operation and maintenance, intelligent site/intelligent construction, as well as BIM, GIS three-dimensional lightweight engine has considerable technical advantages, and has achieved customer recognition. In the future, we will integrate resources and complement each other's strengths in the field of artificial intelligence and other related fields, so as to bring smarter service experience to customers.



Education & Training

In cooperation with "China Graphics Society", we have trained and completed BIM competency certification for over 8000 people and provided BIM training services for more than 20 companies. In cooperation with "Shanghai BIM Technology Association", we have completed customized BIM management training, and provided project owners' management team with rich practical experience in BIM integration management.

Theory and standardization system development, project undertaking, training provision, etc.



Government/Association

Whole process BIM digital management and implementation, enterprise BIM standard development



Owners

Digital tools and platform development services, etc.

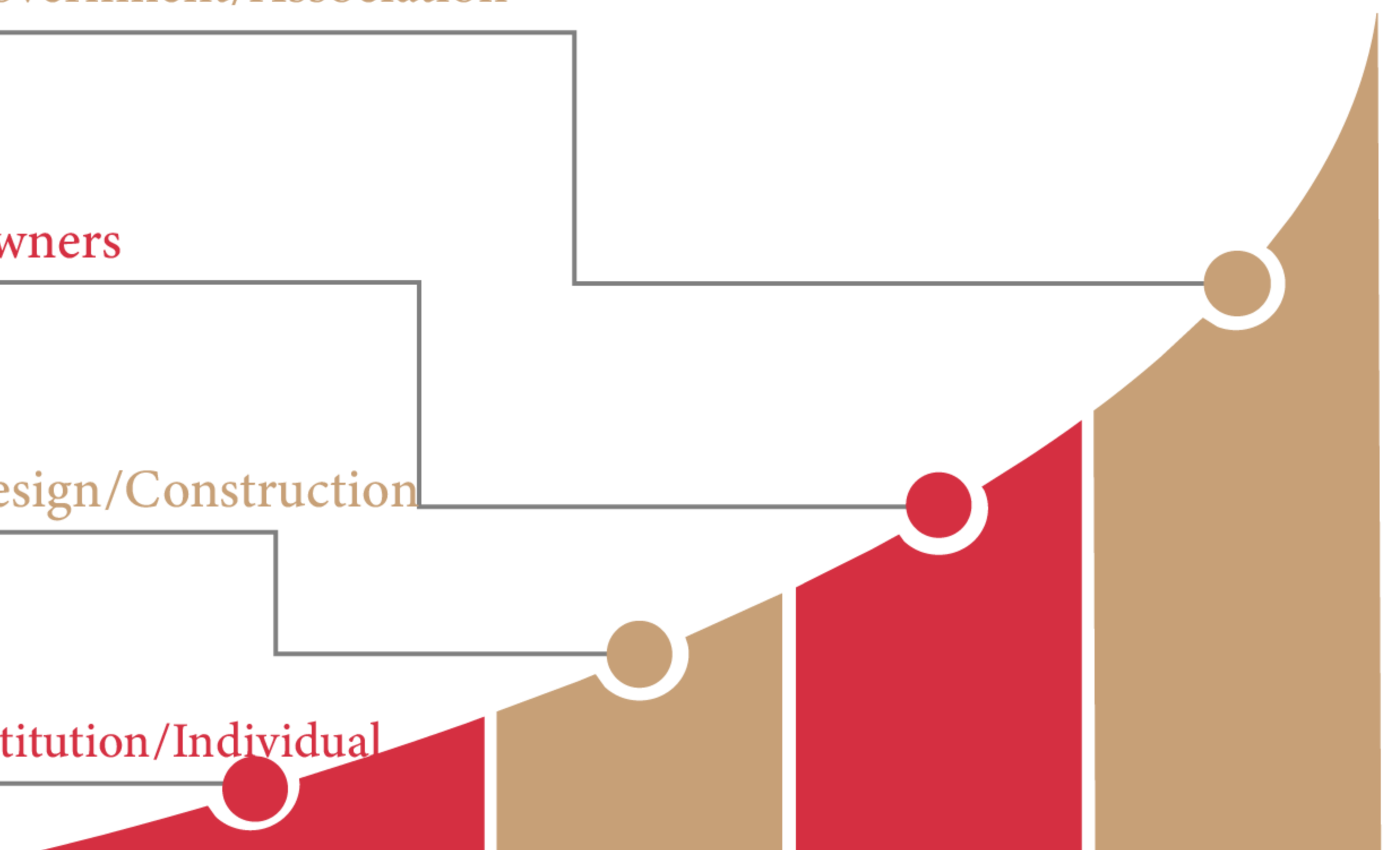


Design/Construction

BIM software training, BIM into project management training, etc.



Institution/Individual



2 Project consulting



Enterprise BIM Standards



Owner BIM Management



Design/Construction
BIM Implementation



BIM+Services



Classic cases



In more than ten years of BIM consulting practice, SmartBIM has accumulated a wealth of project case experience, some of the classic cases include.



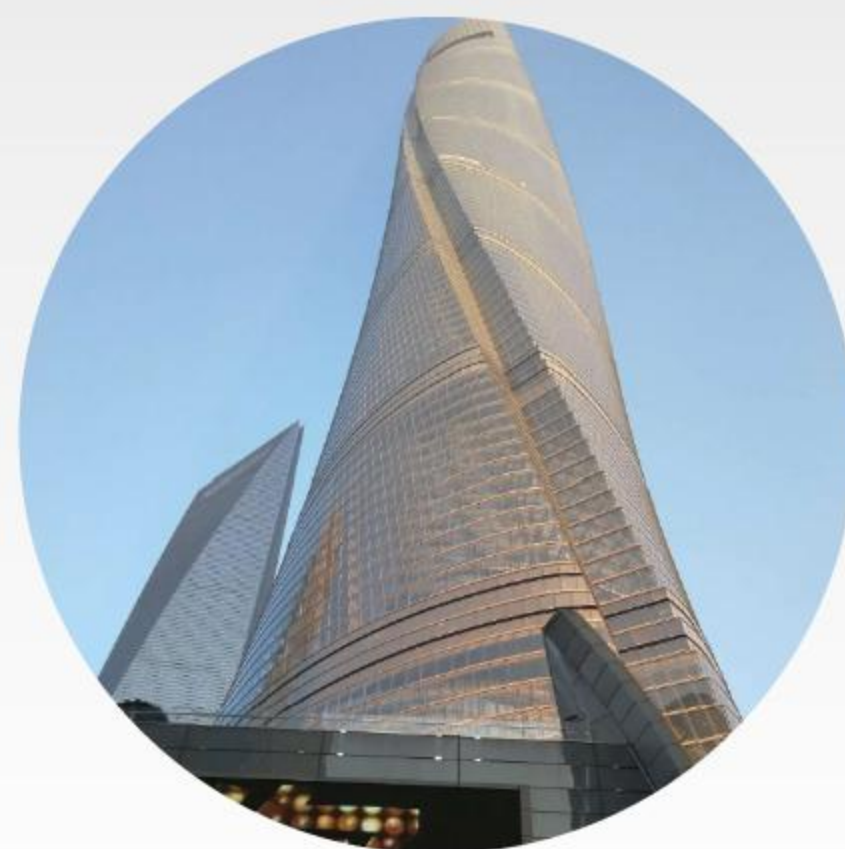
Shanghai Disney



Fudan University



The Ring Dream Center



Shanghai Tower



GuBei SOHO



Hangzhou Bay Standard Factory



Zhangjiang Electricity Harbor



New Bund International Business District



Suzhou Zhongnan Center



Shanghai Metro

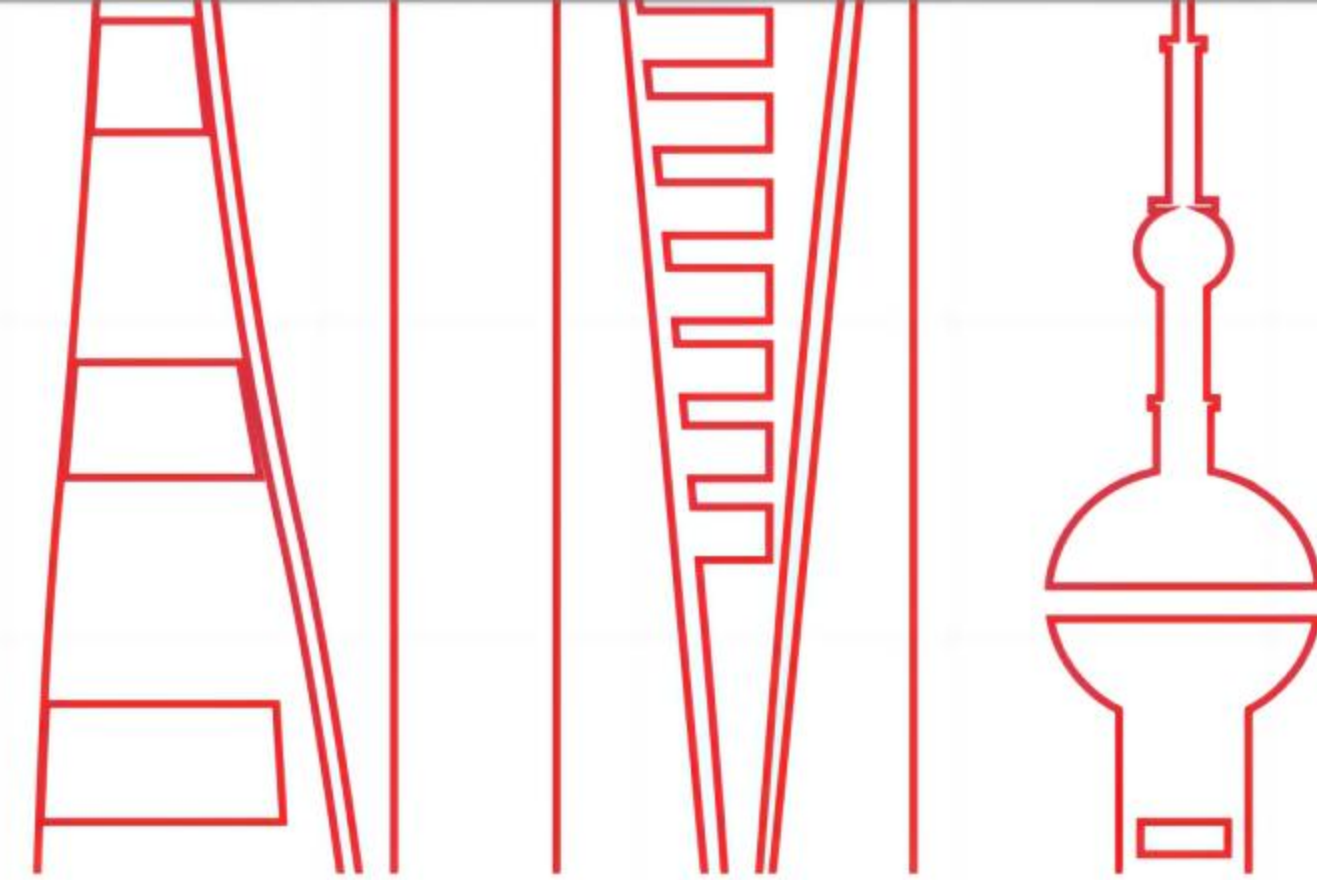


Zhanjiang Verbund Site



Hangtou Low-income Houses

Shanghai Metro



Infrastructure

West Locks Project

Wuxi Fengxiang Road Rapid Improvement Project

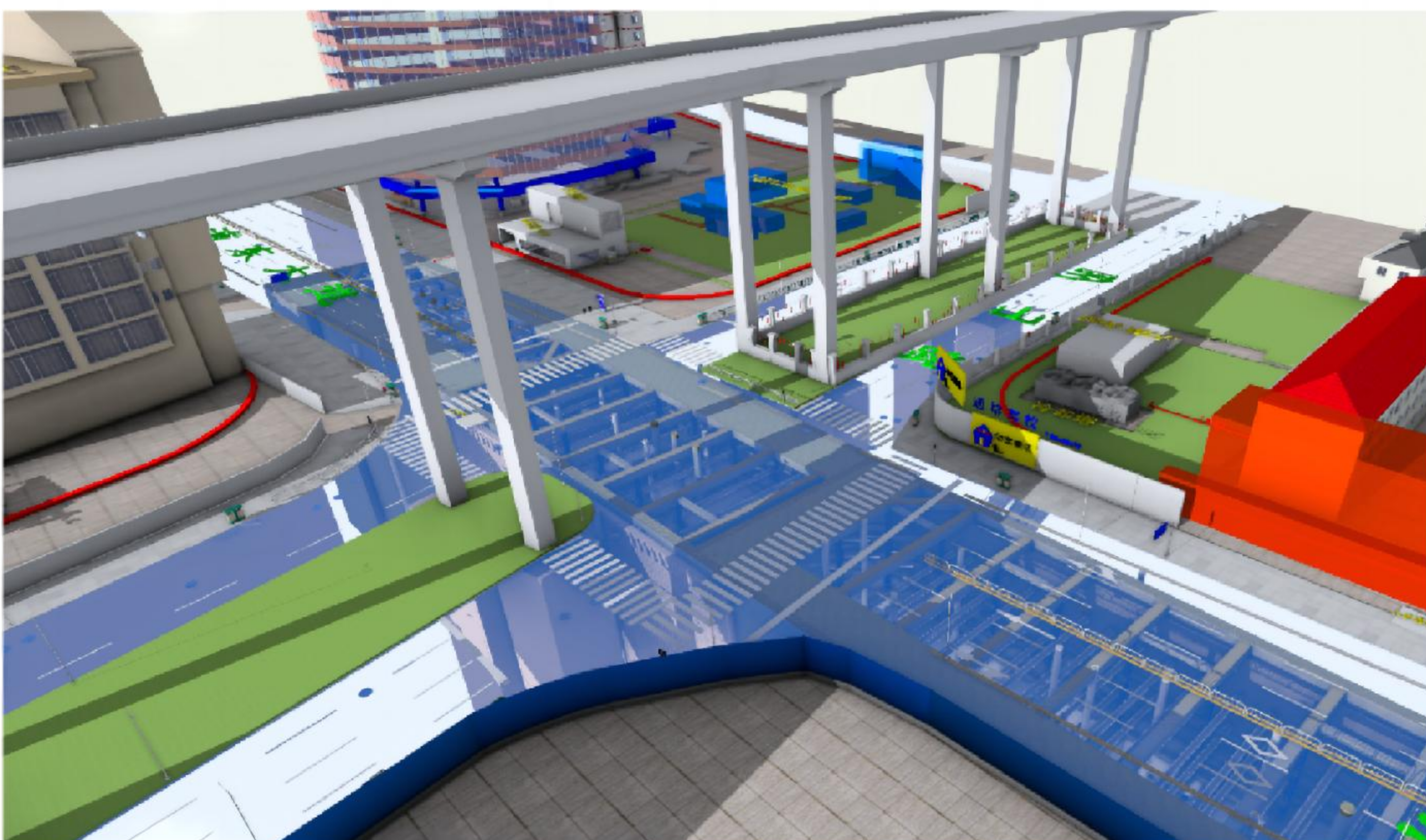
etc.

SmartBIM has participated in 5 Metro lines, including No. 5, No. 10, No. 14, No. 15, Chongming Line, 12 stations, 14 intervals, 2 vehicle bases, 2 substations, 3 bridge renovations, 1 intermediate air shaft, and other municipal related projects. It serves the whole life cycle of municipal transportation construction and provides practical BIM technology application support for project implementation.

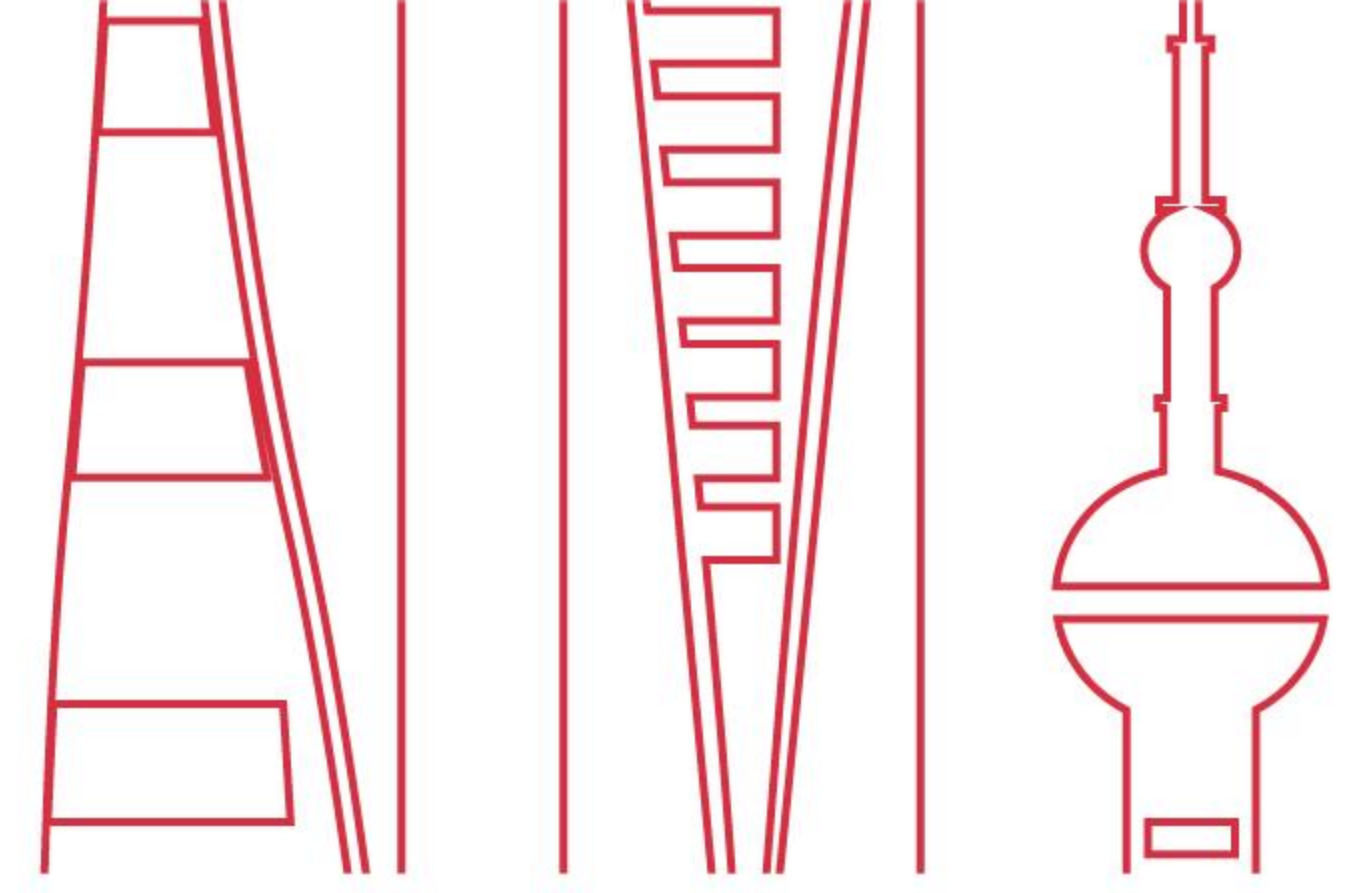


Whole process BIM implementation services

Help owners build BIM organization and management structure and optimize workflow. Guiding and assisting construction, supervision, design and other units to carry out engineering construction work and improve the whole process BIM management system.



Zhongnan Center



Super high-rise buildings

Shanghai Tower curtain wall project
Gubei SOHO
etc.

Suzhou Zhongnan Center project is located in the core area of CBD in the west of Suzhou Jinji Lake, with a total construction area of about 510,000m², 6 floors underground and 103 floors above ground, with a main building height of 499.15 meters and a structural height of 486.2 meters. The project will create a large-scale complex integrating sightseeing, hotel, apartment and office building.



Owner's BIM General Consultant

Responsible for BIM overall planning, standardization, platform construction, etc. Through the implementation of BIM in the design phase and BIM management in the construction phase, SmartBIM can support the owner's management in all aspects, assist the owner to make efficient decisions, improve the quality of the design so as to minimize changes and rework in the later stages, and guarantee the quality of the project.

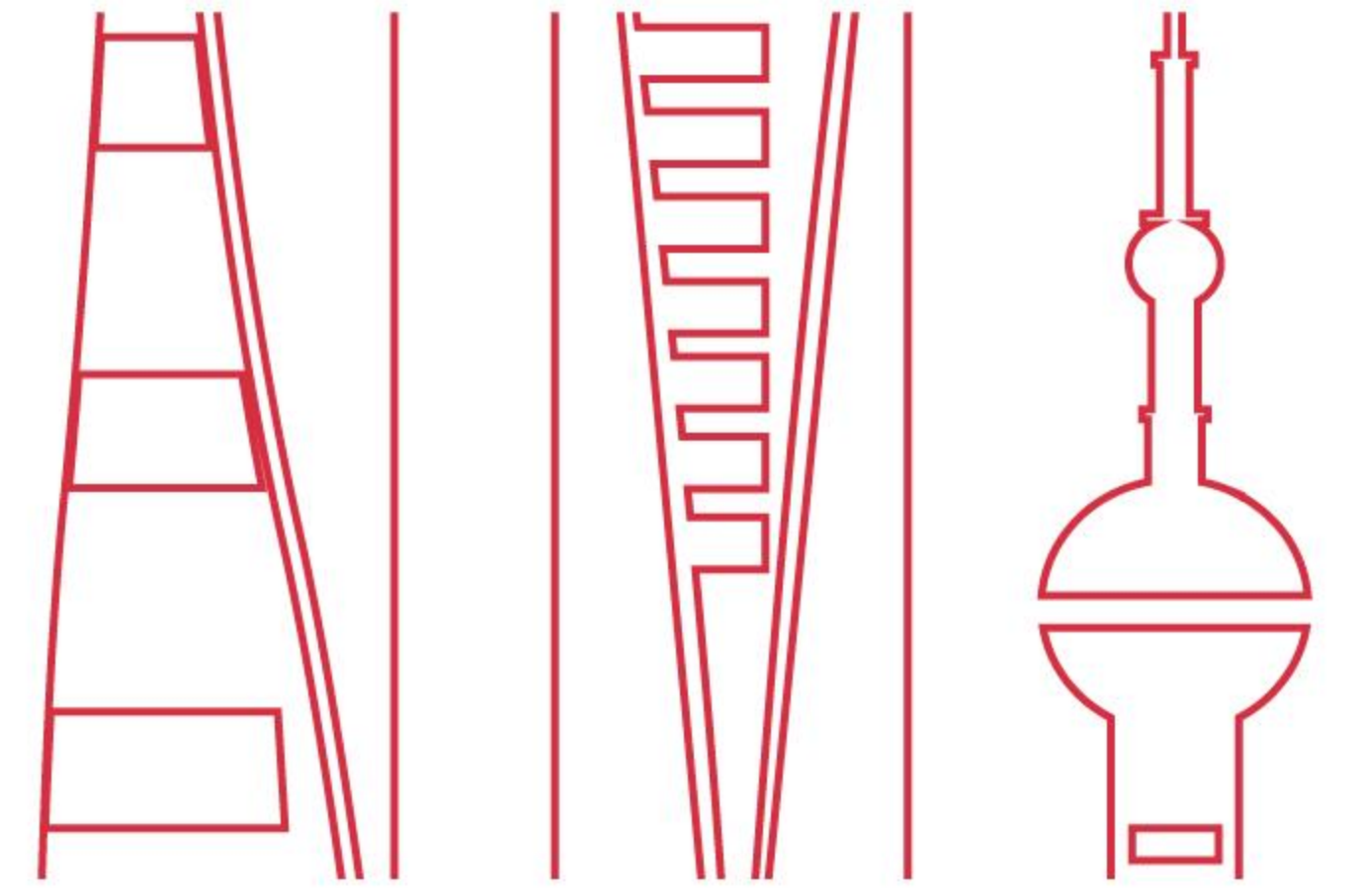


Main discipline modeling & optimization

Interior decoration modeling & optimization

Net height analysis report

Shanghai ZJ integrated circuit design industrial Park



Industrial parks

Zhangjiang Industrial Park: Jisheng Center (Lot 2b-6) Jiding Tiandi (Lot 04-02) Project
 Zhangjiang Smart Box (Lot A-1-1) Project
 Zhangjiang Chuangbo Park (Lot NW24-03) Project
 Zhoupu Smart Park: Huiyuan Tiandi (Lot 41-01) Project

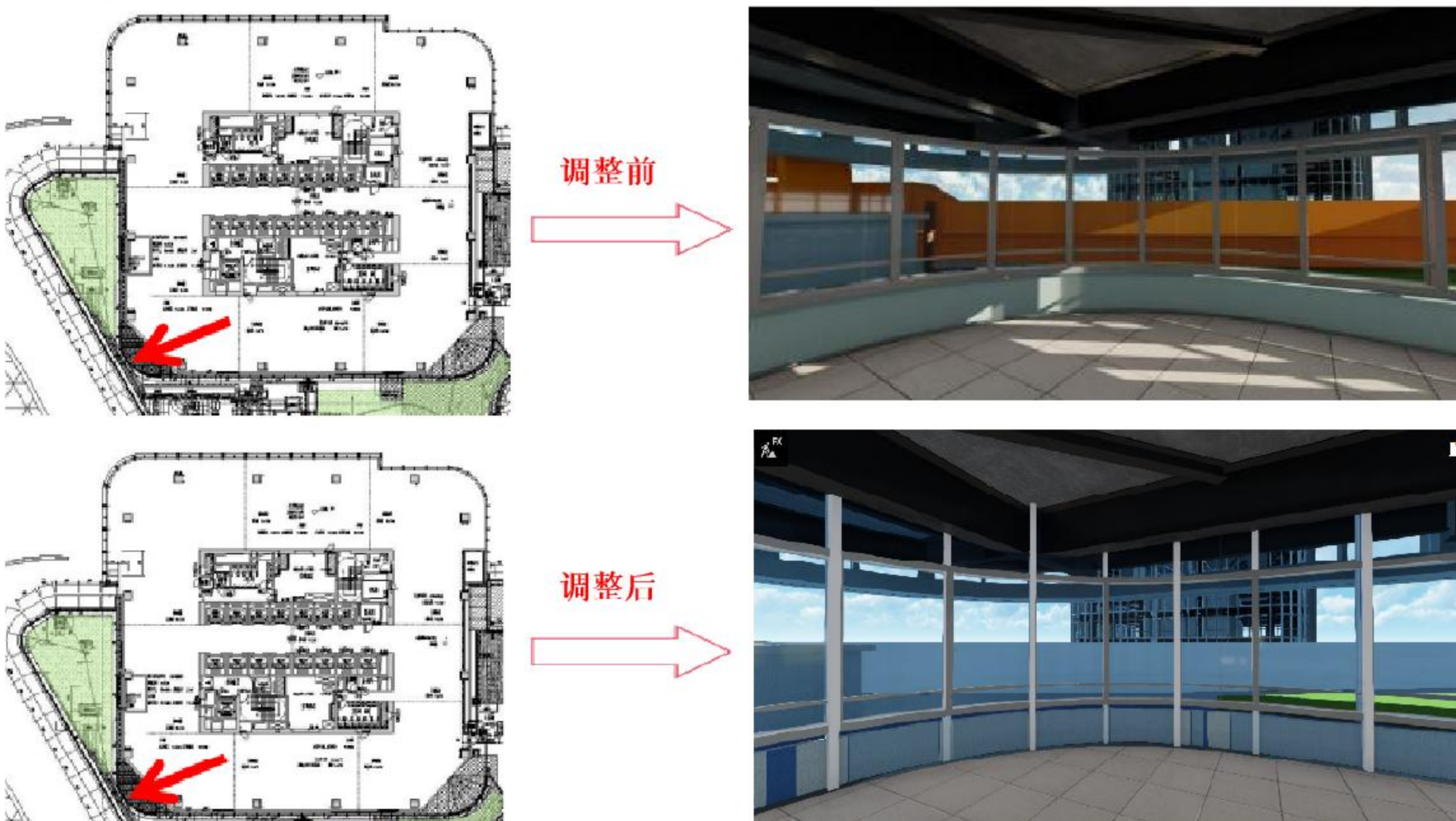
Shanghai IC Design Industrial Park Jisheng Center (Lot 2b-6) project, with a total GFA of nearly 360,000m², consists of three towers A/B/C and a commercial podium, with Tower A about 150 meters high, Tower B about 130 meters high, and Tower C about 100 meters high.



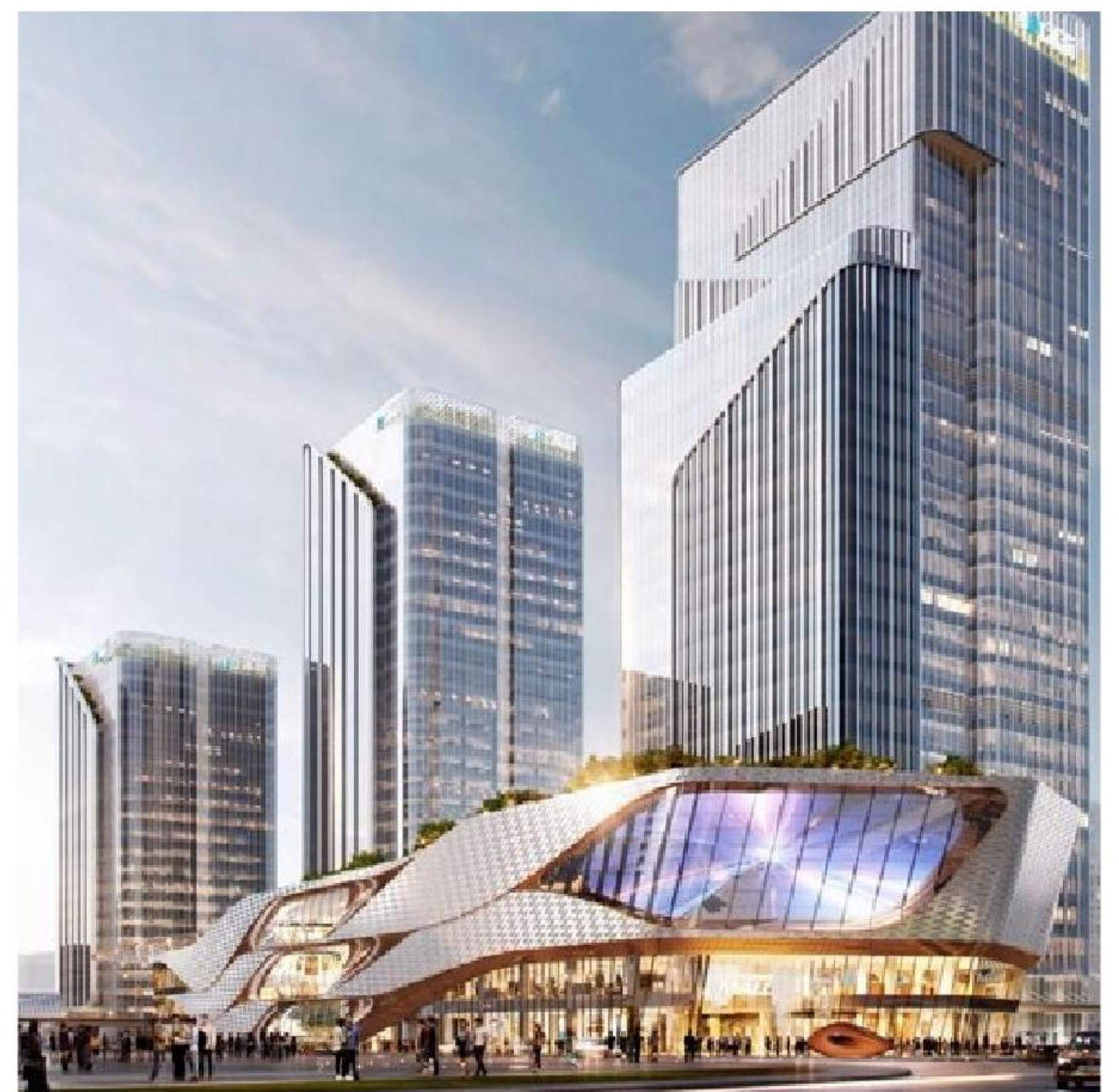
Form a site model through drone tilt photography and integrate it with the BIM model to produce a 720 cloud rendering of this project. Provide an immersive experience by roaming the site and show the scene situation after the building is completed.



Weekly through the site drone aerial photography, generate site panoramic picture production 720 cloud, can show the site weekly construction progress, convenient for project members to understand the site construction situation at any time and any place.



Visualization of the design of the podium roof shading effect of the review, unreasonable solutions to raise questions and program adjustments.



Owner's BIM Consultant

As the owner's BIM consultant, SmartBIM is responsible for the BIM implementation in the design phase and BIM management in the construction phase, providing the whole process of digital services for the design optimization and construction implementation of the project.

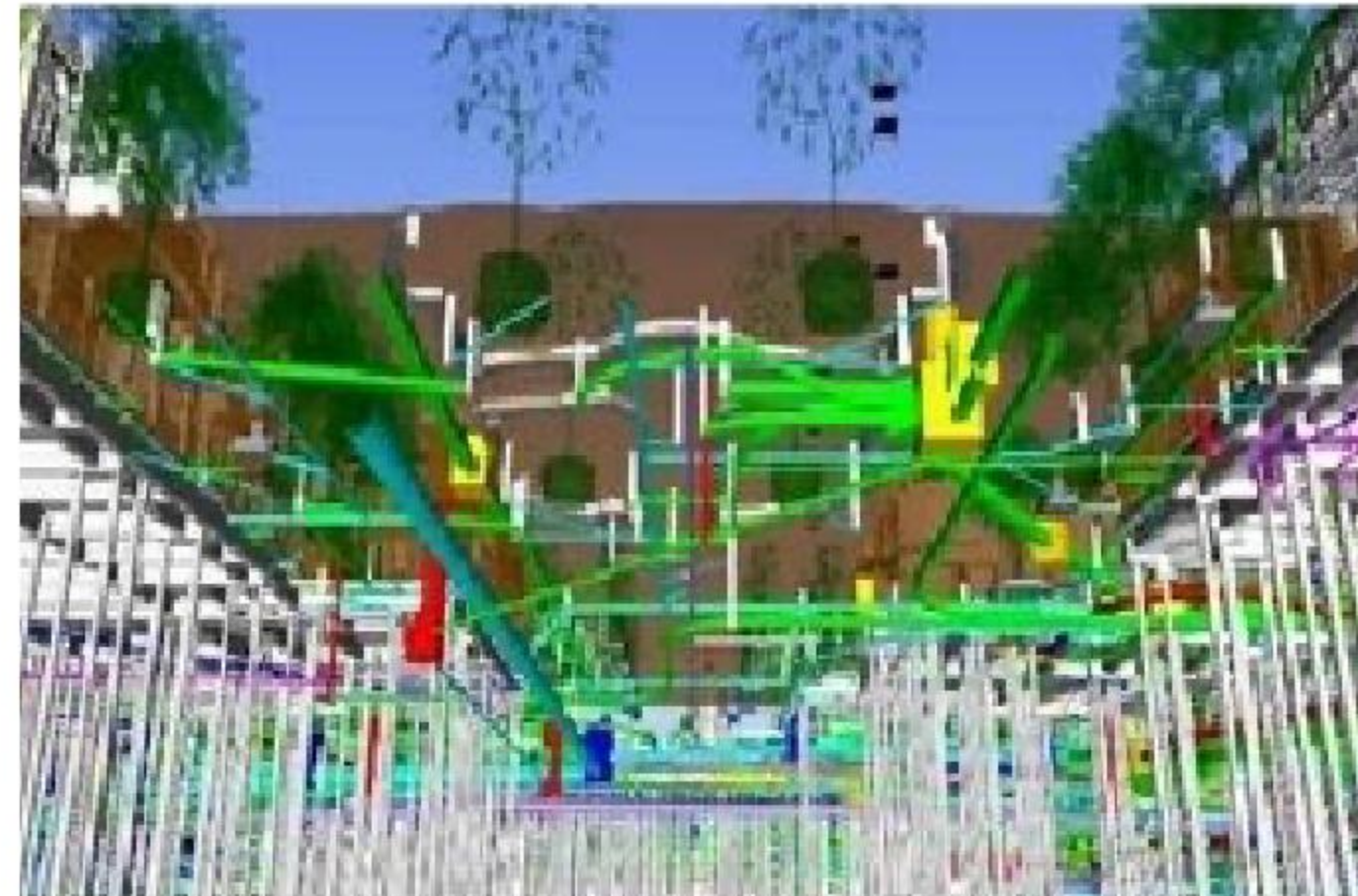
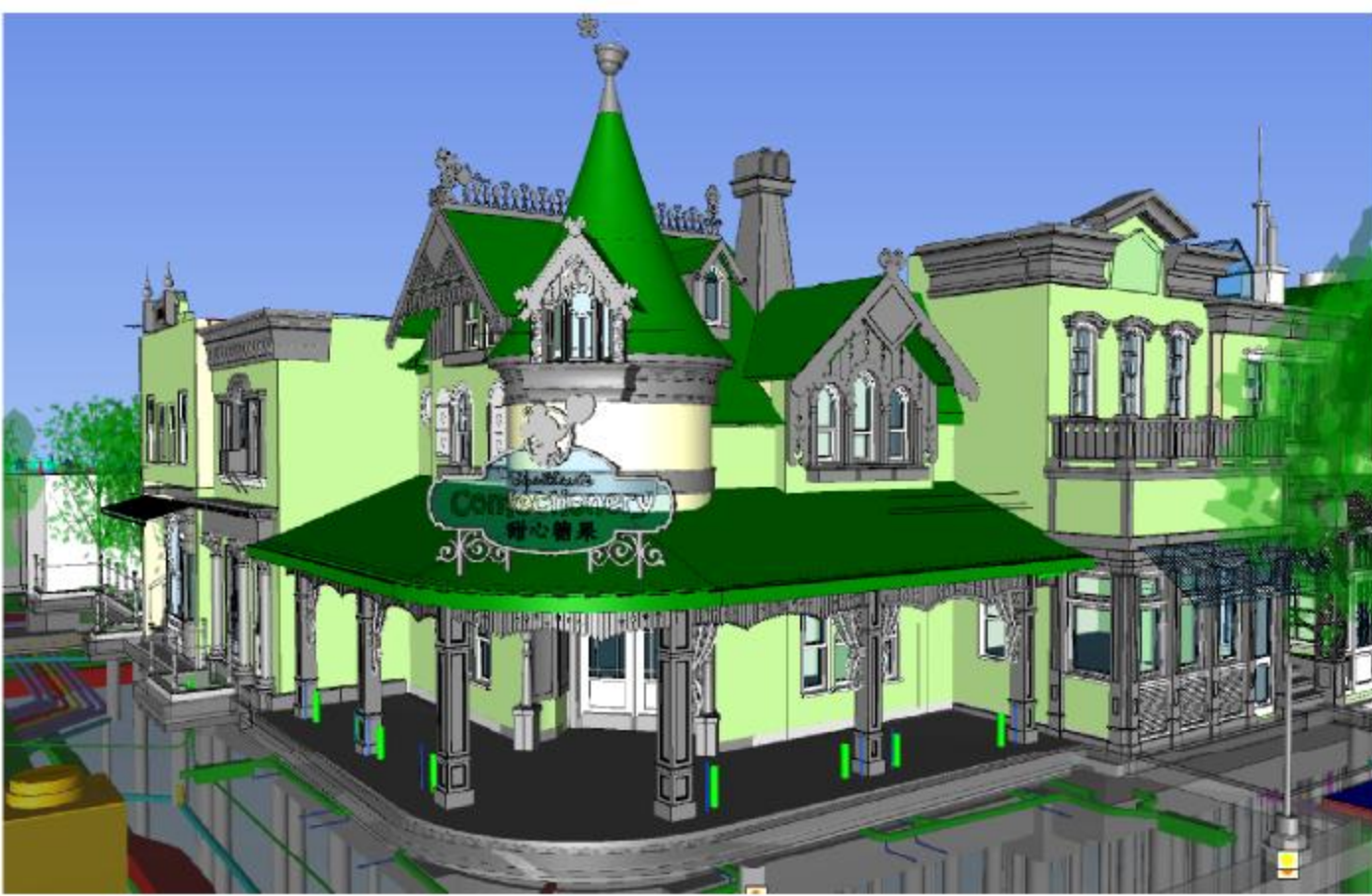
Theme park



Culture and tourism

Pudong Art Museum Project
Jinhua Asian Games Sub-Village Project
Tongxiang National Fitness Center Project
etc.

The large-scale theme park project in Shanghai is located in Chuansha New Town, Pudong District, Shanghai. The underground pipeline network (primary, secondary and tertiary) of this project is very complex, and the landscape realization of the site requires precise and complete, and the LOD level requires to reach 500 level.

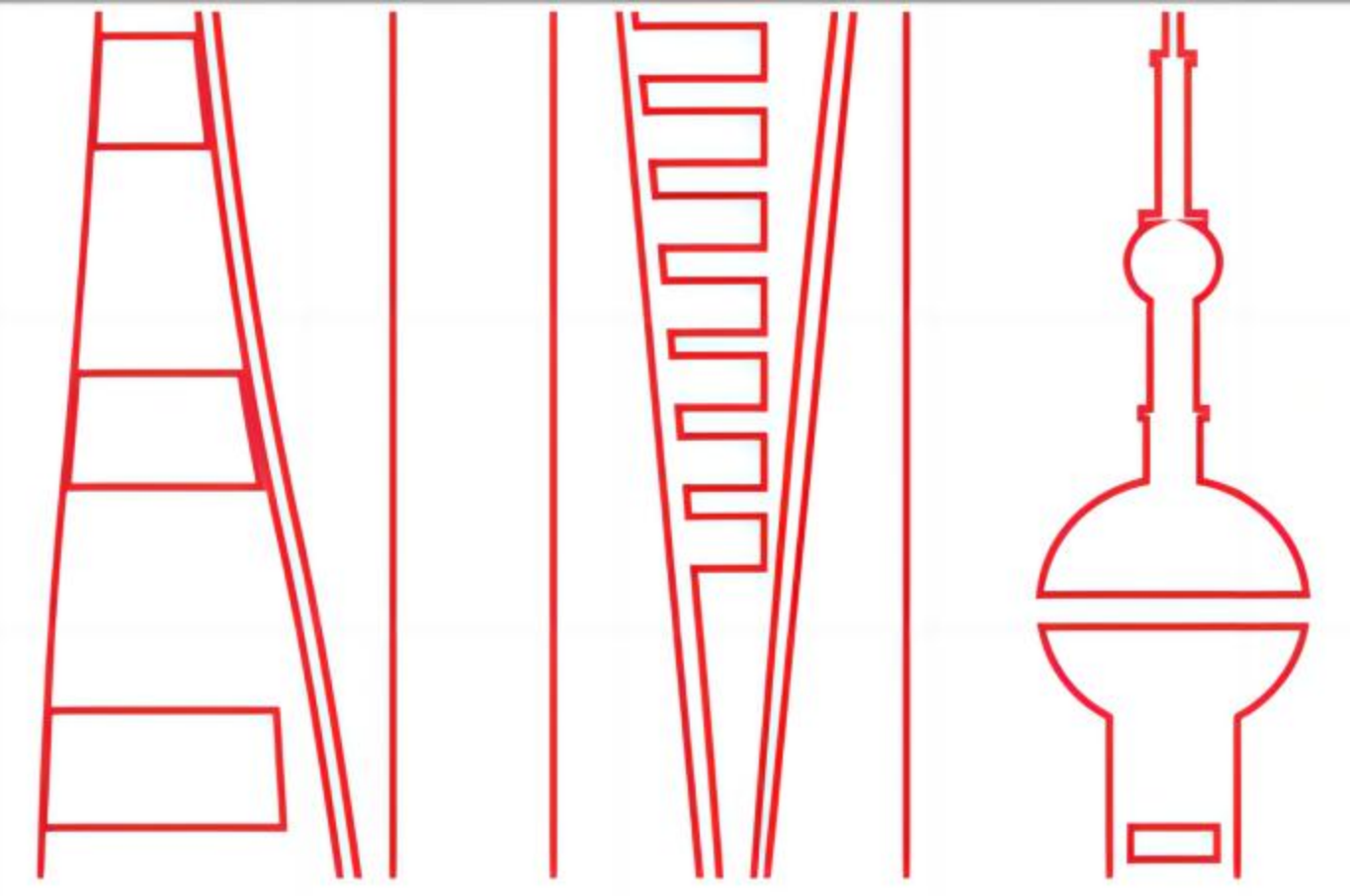


BIM General Coordinator

Invited by the owner, SmartBIM was the BIM general coordinator for the ME&G (Main Entrance & Garden) block, responsible for the BIM coordination, design coordination and construction coordination for the 105,000 square meter site and nearly 20 complex single buildings. The project is a complete BIM application of design, construction and delivery, reflecting the international level of BIM delivery standards. The project won the "AIA Architectural Practice Award".



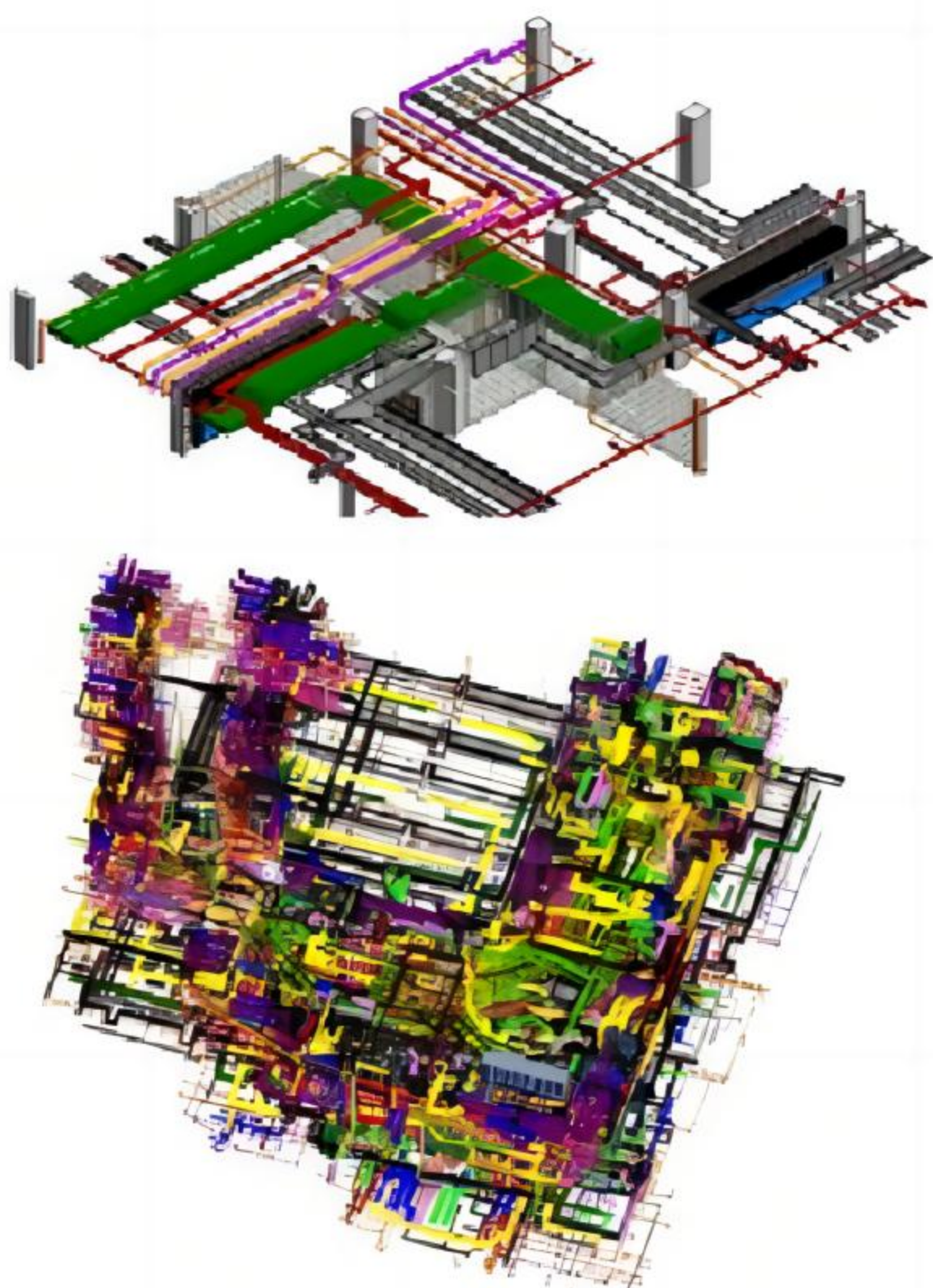
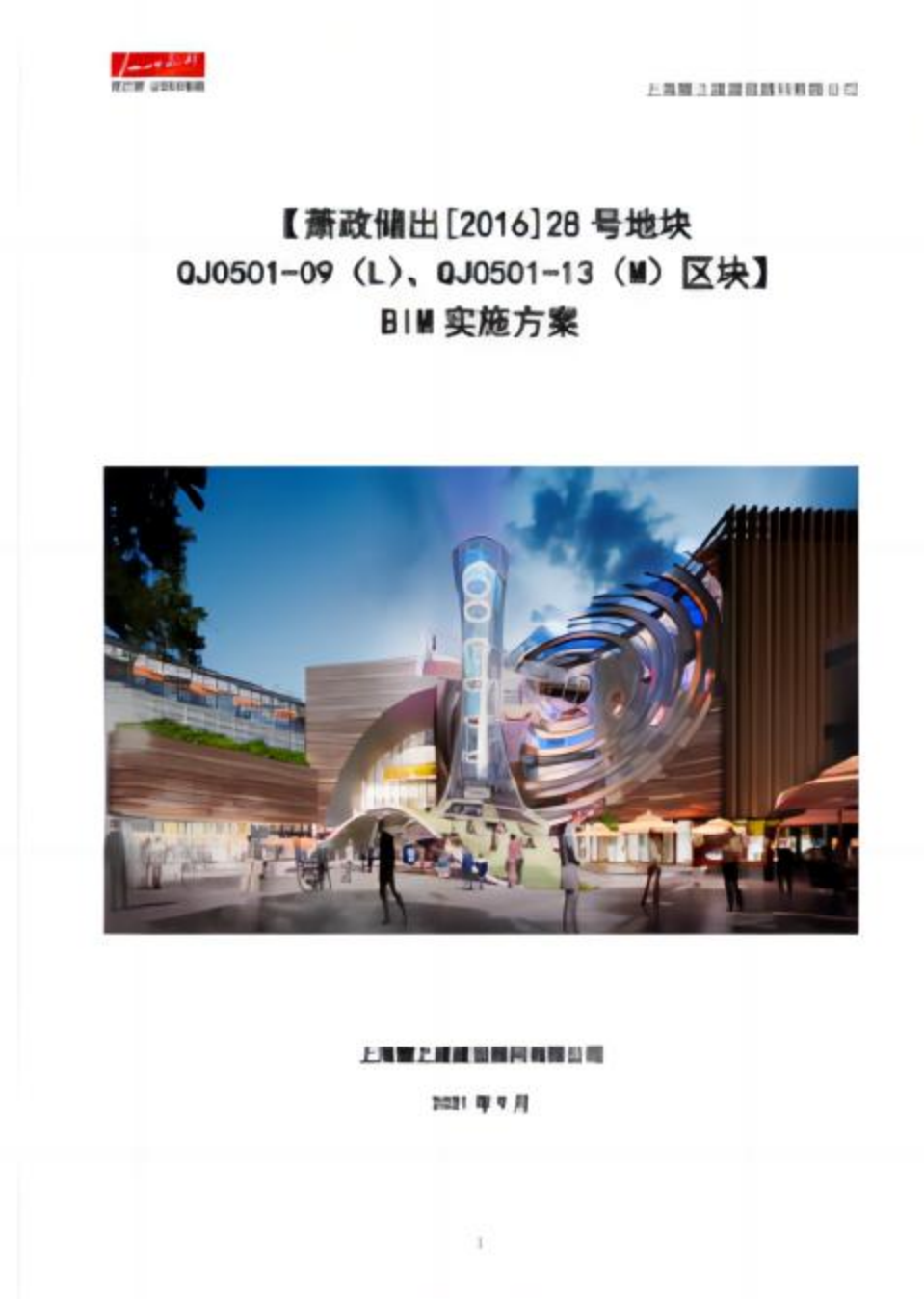
The Ring dream center



Commercial complex

Huai'an Financial Center
Yanziji, Nanjing
QianTan Lot 25-02 Office/Hotel
etc.

The Ring dream center project is located in Hangzhou Xiaoshan Science and Technology City plate, along the north and south banks of the Pioneer River, L, M plot construction land area of 78,870m², a total construction area of 244,305.5m², The functionalities are centralized commercial, block type commercial street and hotel.



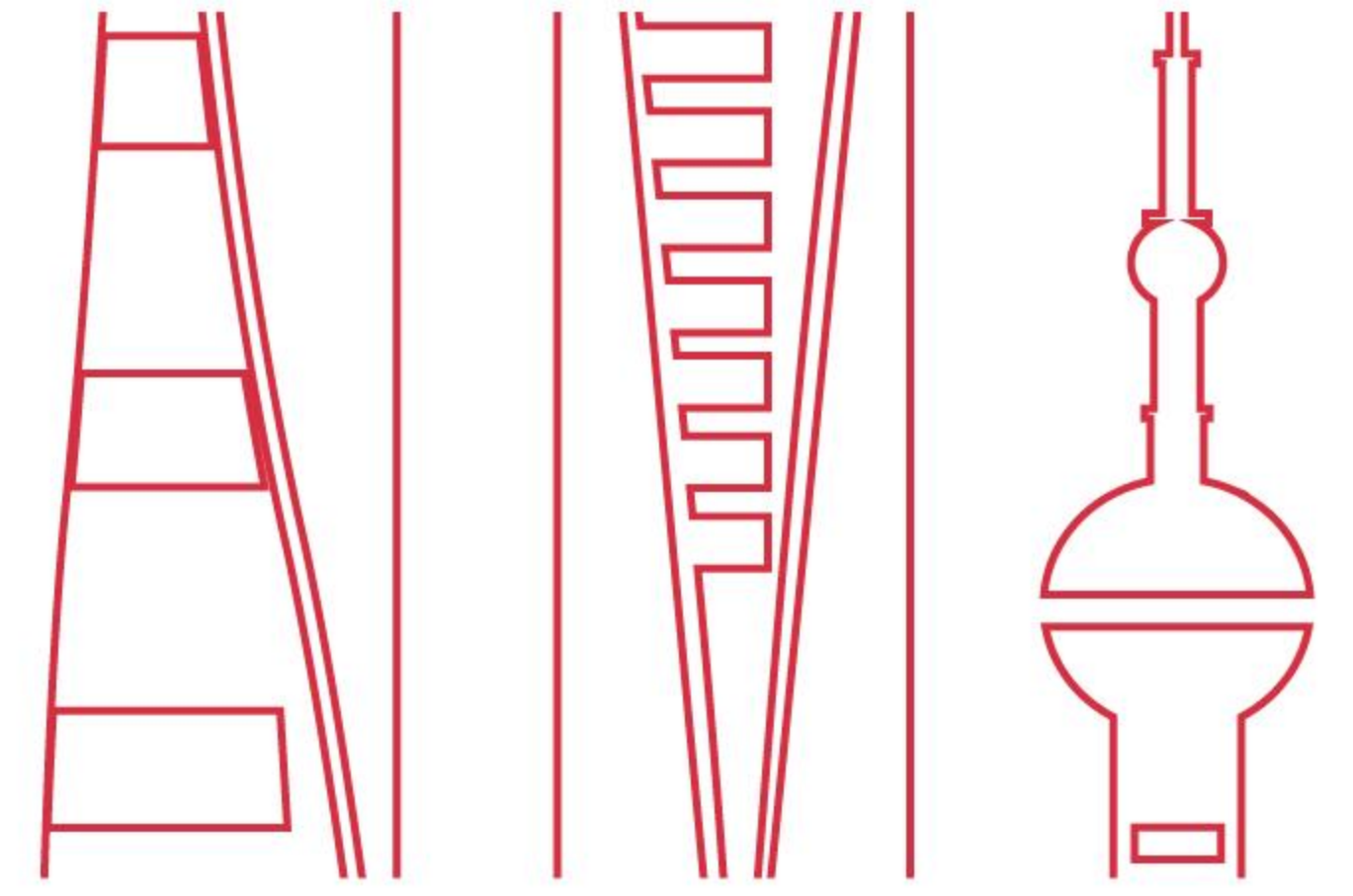
Whole Process BIM Management

+

Design BIM Implementation

- Prepare BIM implementation standards and processes
- Schedule and quality management of BIM implementation
- BIM model creation
- Conflict detection, net height detection
- MEP Optimization
- BIM shop drawing disclosure
- Verification of construction BIM implementation results
- Documentation and data management
- Verification of model-site consistency
- As-built and delivery

Hangzhou Bay standard plant



Industrial plants

Waigaoqiao General Purpose Plant Project
Shanghai New Development H2 Project
etc.

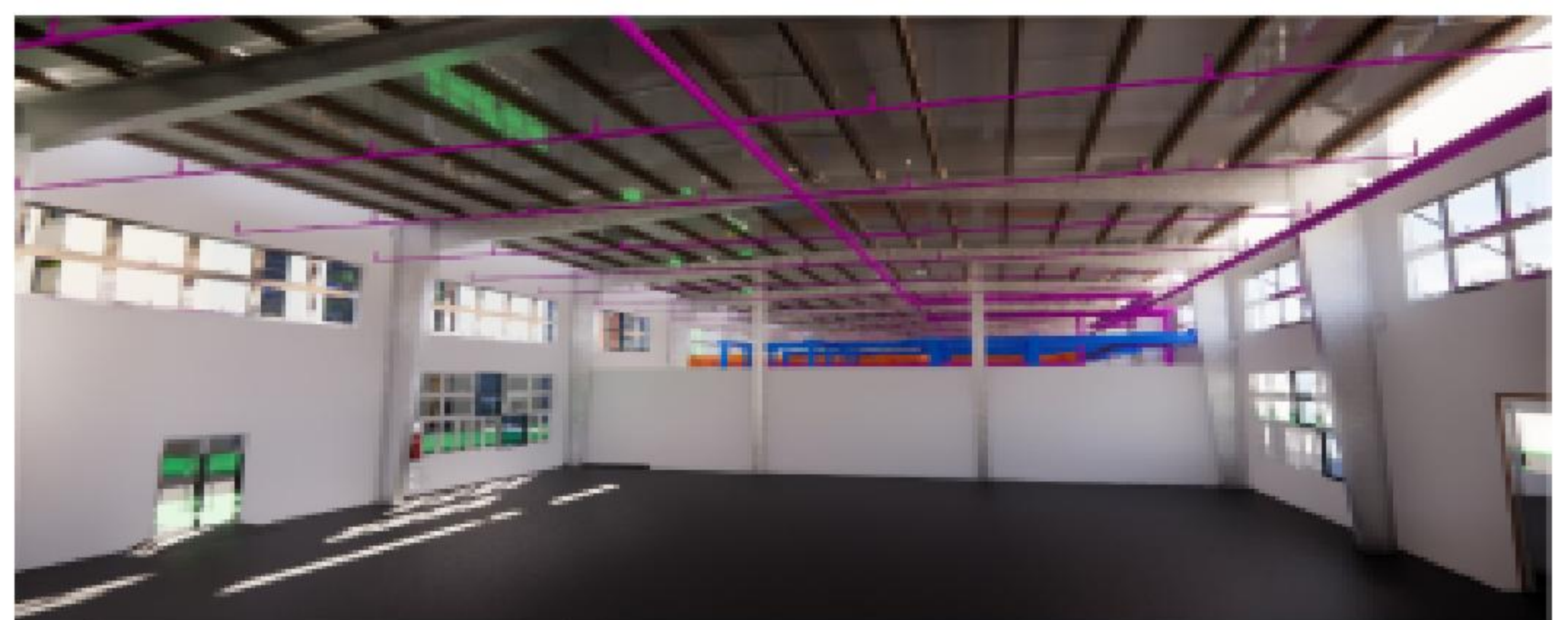


The project is located in Fengxian Sub-district, Chemical Industry Zone, Fengxian District, Shanghai, with a total construction area of about 39,000m². The project services include BIM implementation for the whole process of comprehensive office building, guard room, fire fighting pool, accident emergency pool, garage, packaging workshop, class C workshop, class C warehouse, etc. .

BIM-based lightweight project collaborative management platform



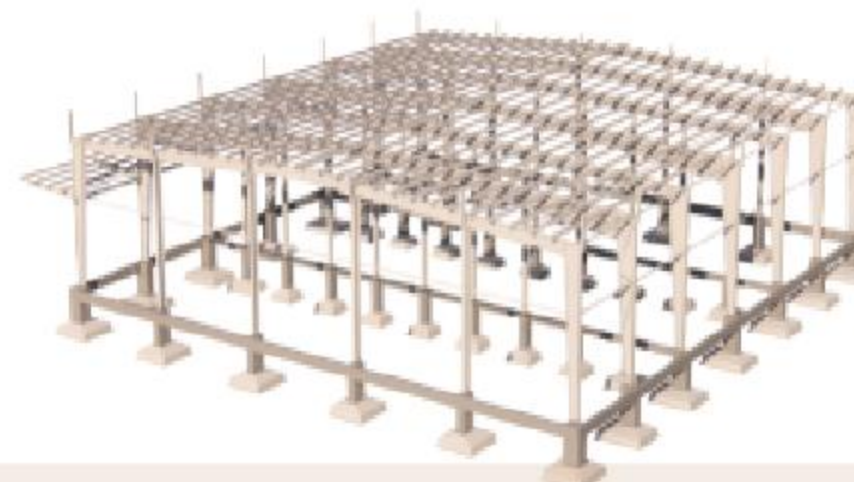
BIM model of the main entrance



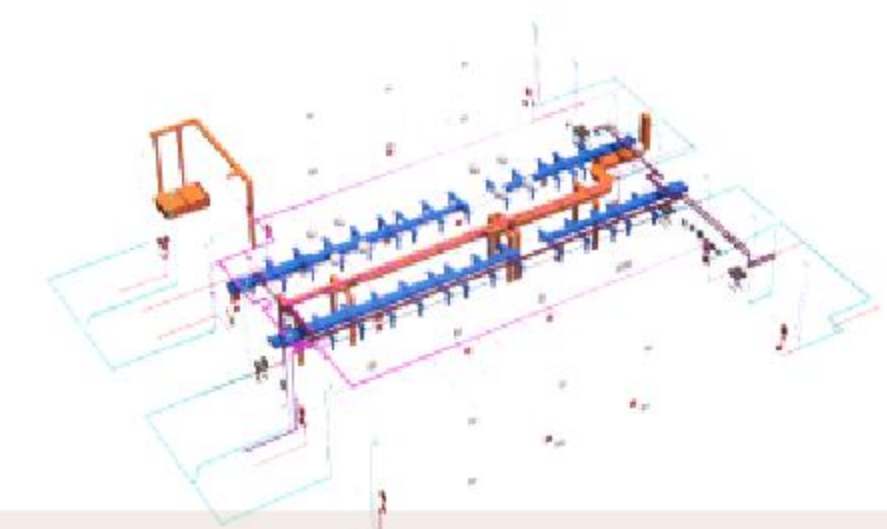
4# Internal view of category C warehouse



3# Category C Warehouse Building Model

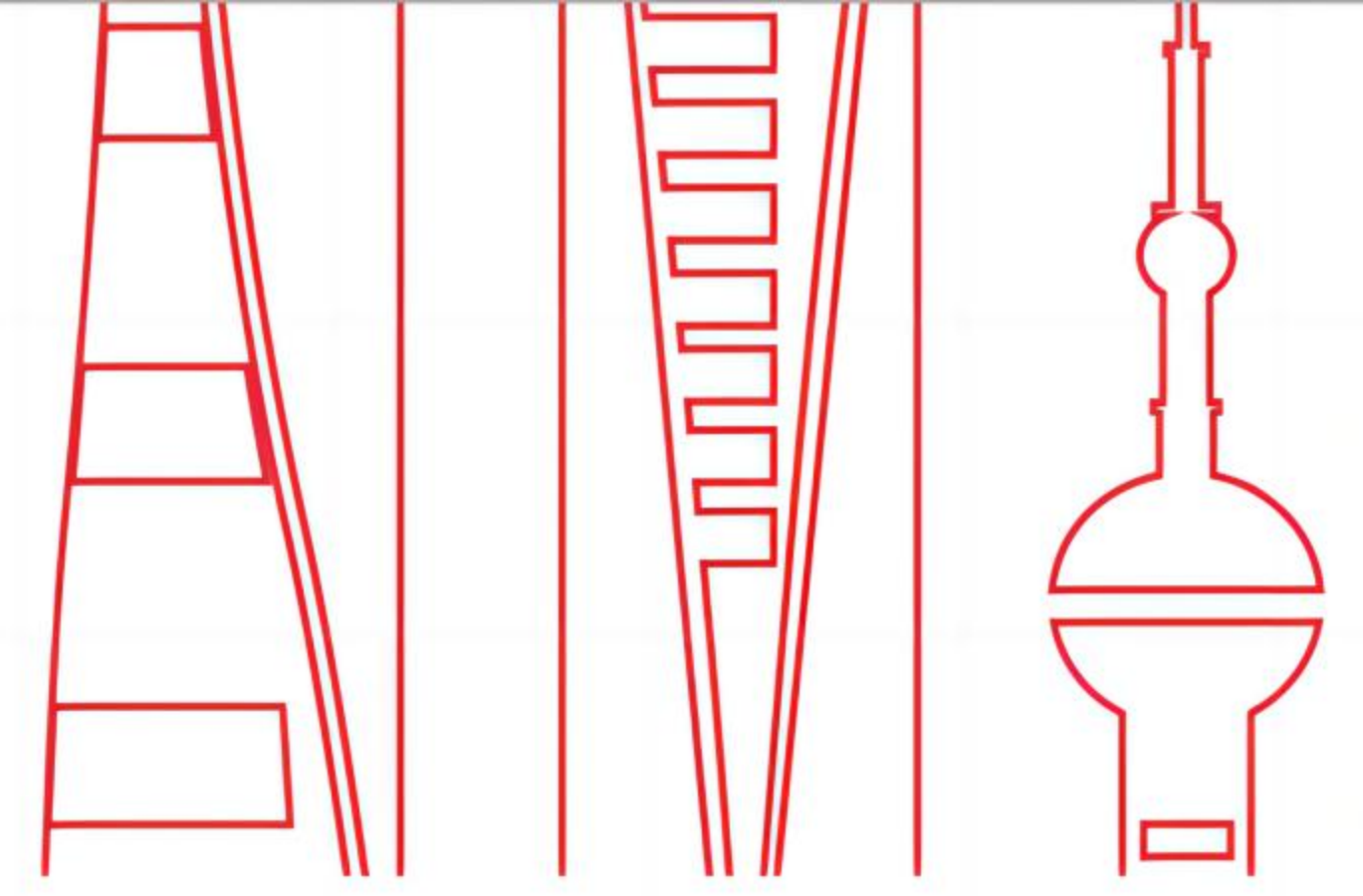


3# Structural model of category C warehouse



3# Category C Warehouse E&M Model

Fudan University



School campus

Jiangxi Provincial Party School Jiulong Lake Campus Project
Tongzhou Road No. 566 Renovation and Expansion Project
Shanghai Material Engineering School
etc.

Fudan University Jiangwan Campus Science and Technology Building Complex New Construction Project is a major construction project in Shanghai. The project is located at No. 2005 Songhu Road, Yangpu District, Shanghai, the campus covers an area of 1,600 mu, with a total construction area of 250,000m².



Owner-side BIM consultant

Help the owner to build the BIM organization and management structure and optimize the workflow; the engineers use the drone to scan the field and create the current status model according to the scanned point cloud, so as to accurately and timely grasp the topography and landforms around the project, the current status of the road, and the surrounding buildings.

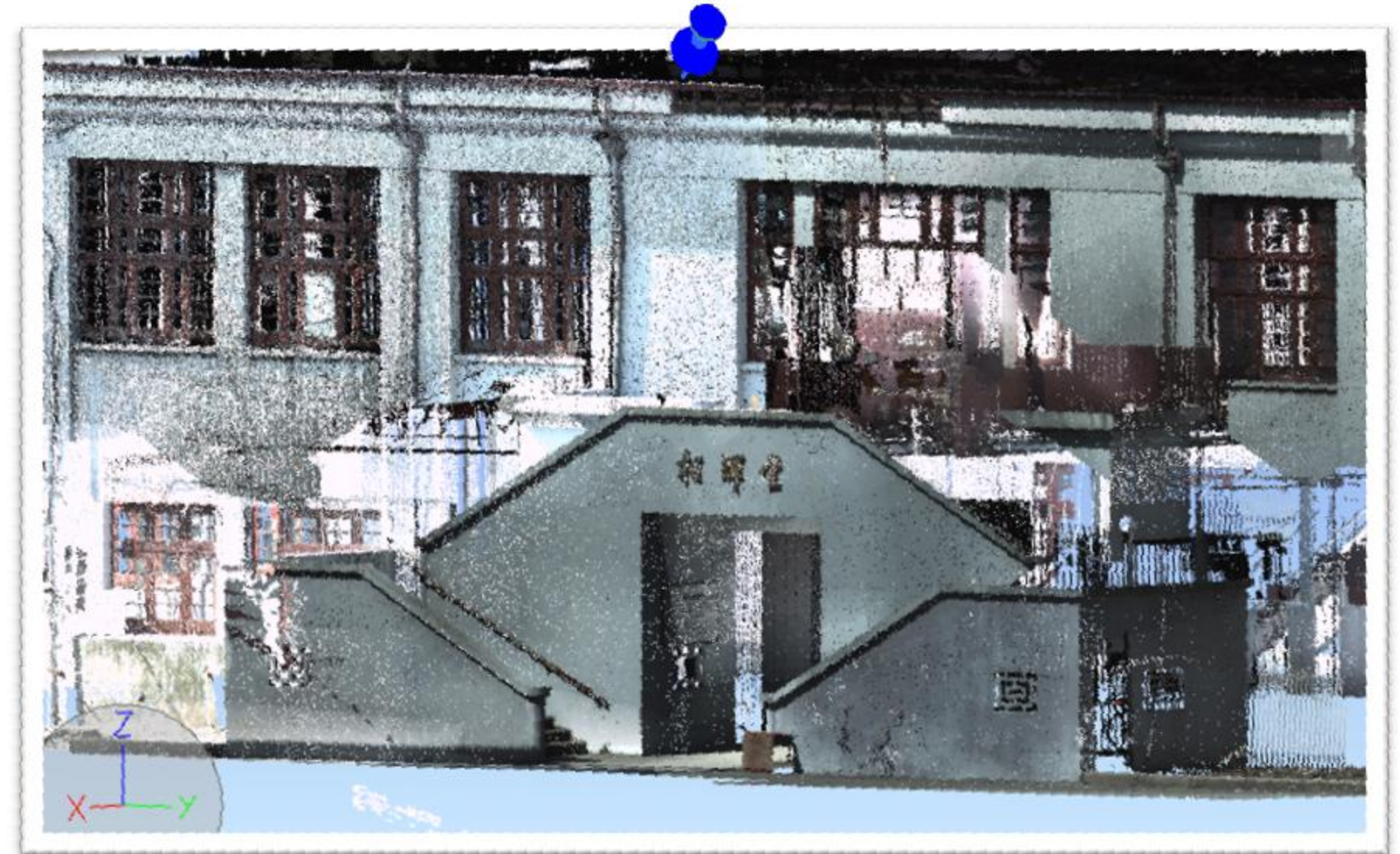
Xianghui Hall, Fudan University



Renovation projects

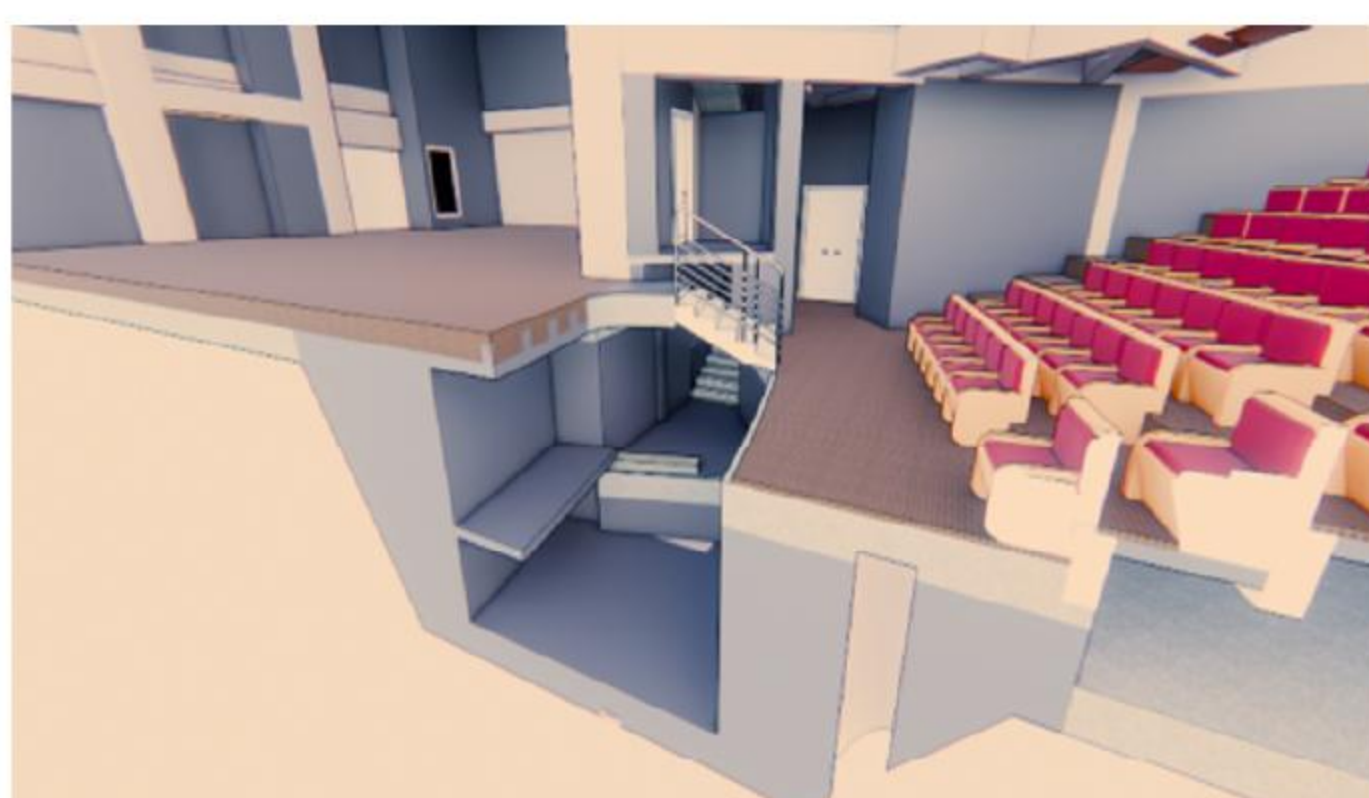
Hotel Lisboa Macau
San Yi Li Landscape Renovation Project
etc.

Located in Handan Campus of Fudan University, it was built in 1947 and has undergone many renovations and expansions, with a total building area of 2,282m².



BIM Consultant

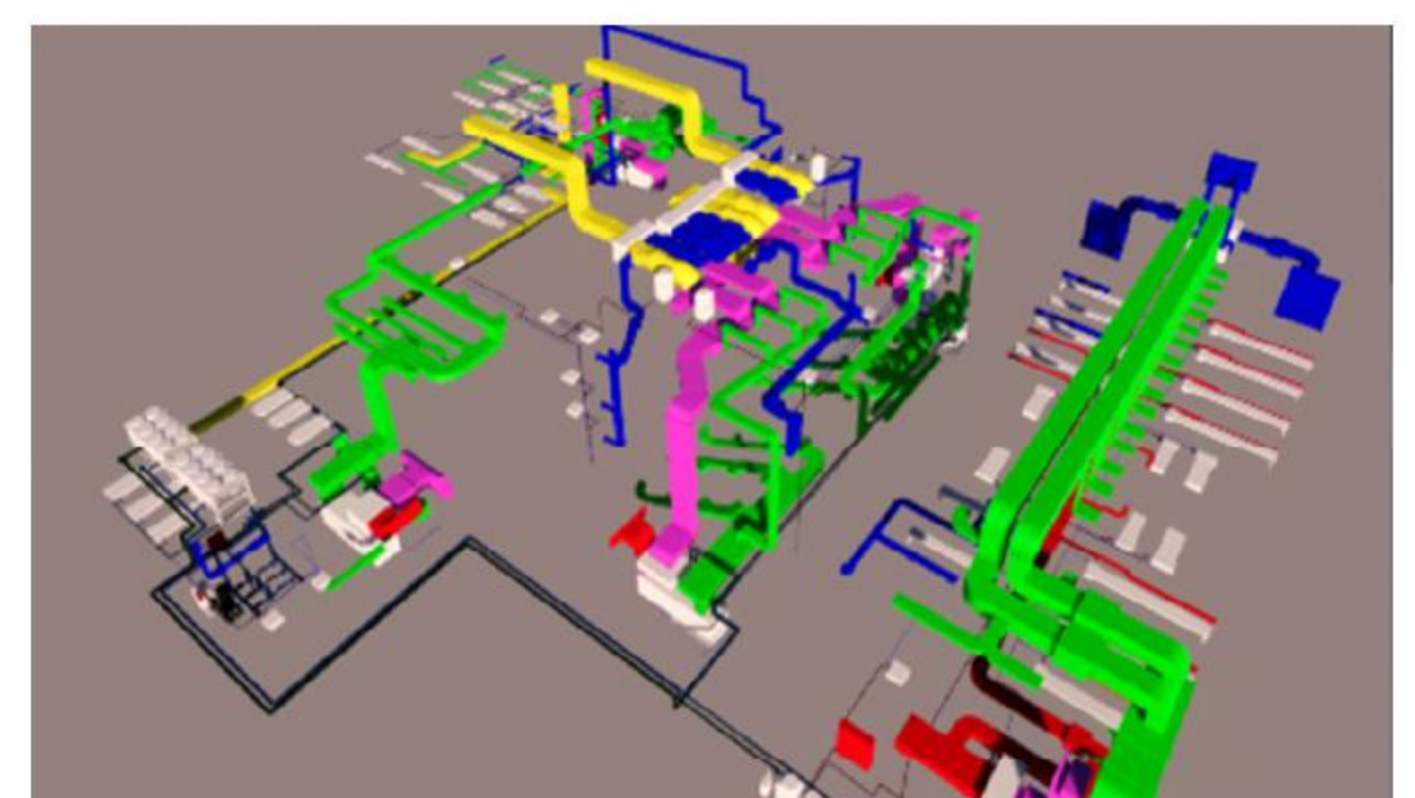
SmartBIM is the BIM implementation unit for the whole process. Through the combined application of 3D laser scanning and BIM technology, it provides electronic archiving for Xianghui Hall and efficient digital technology means for the restoration work.



Multiple lifting plates
Complex structural configurations

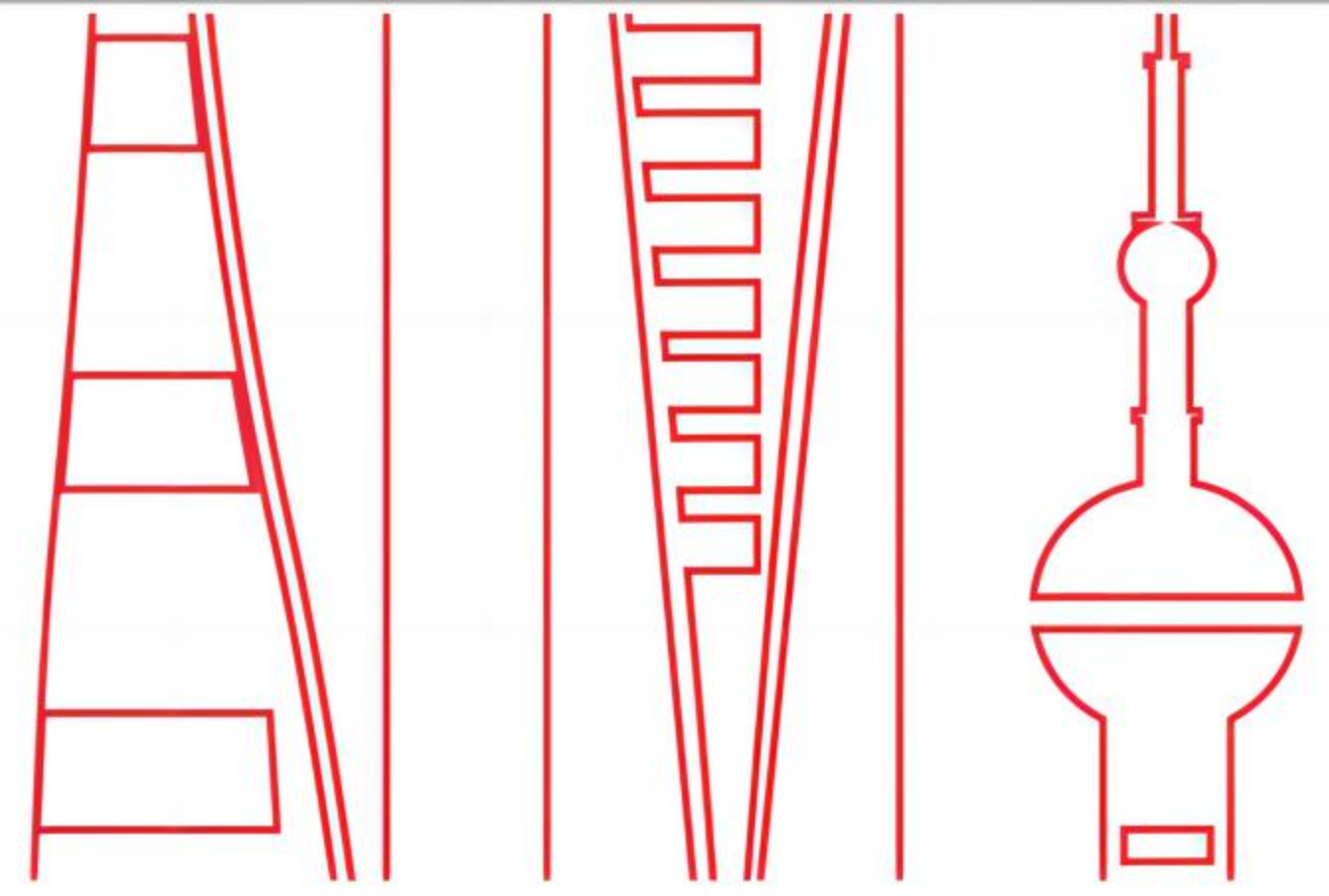


Complex construction
with many decorative nodes



Many electromechanical pipelines
High optimization requirements

Hangtou low-income houses



Prefabricated

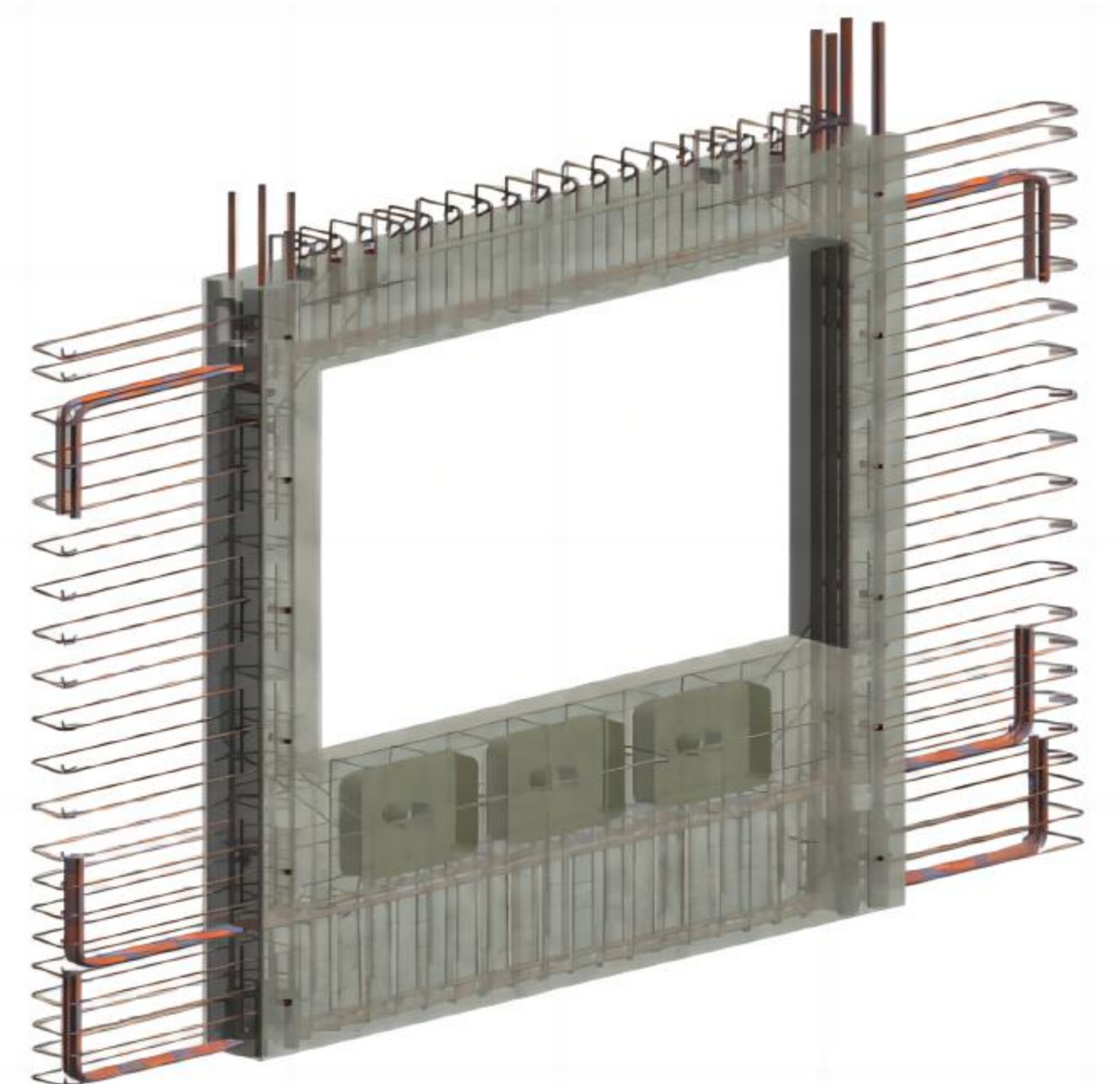
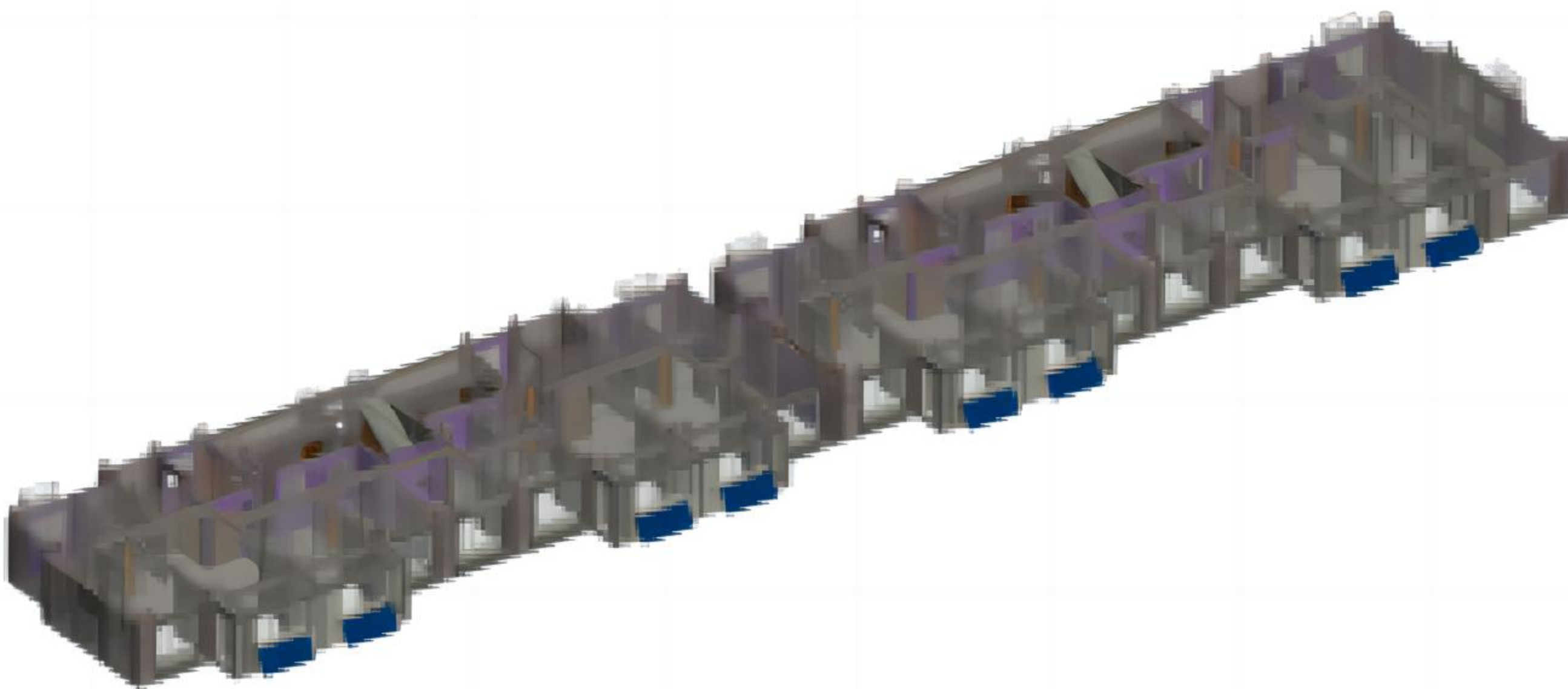
Songjiang South Station Resettlement Housing Project
Foreshore Jiu Gongge Project
Pudong New Area Huinan New Town Unit 25 Project
etc.

The site of Hangtou Low-income Housing Project is located in Pudong New Area, Shanghai, and the project has many PC components and the PC model is relatively complex.

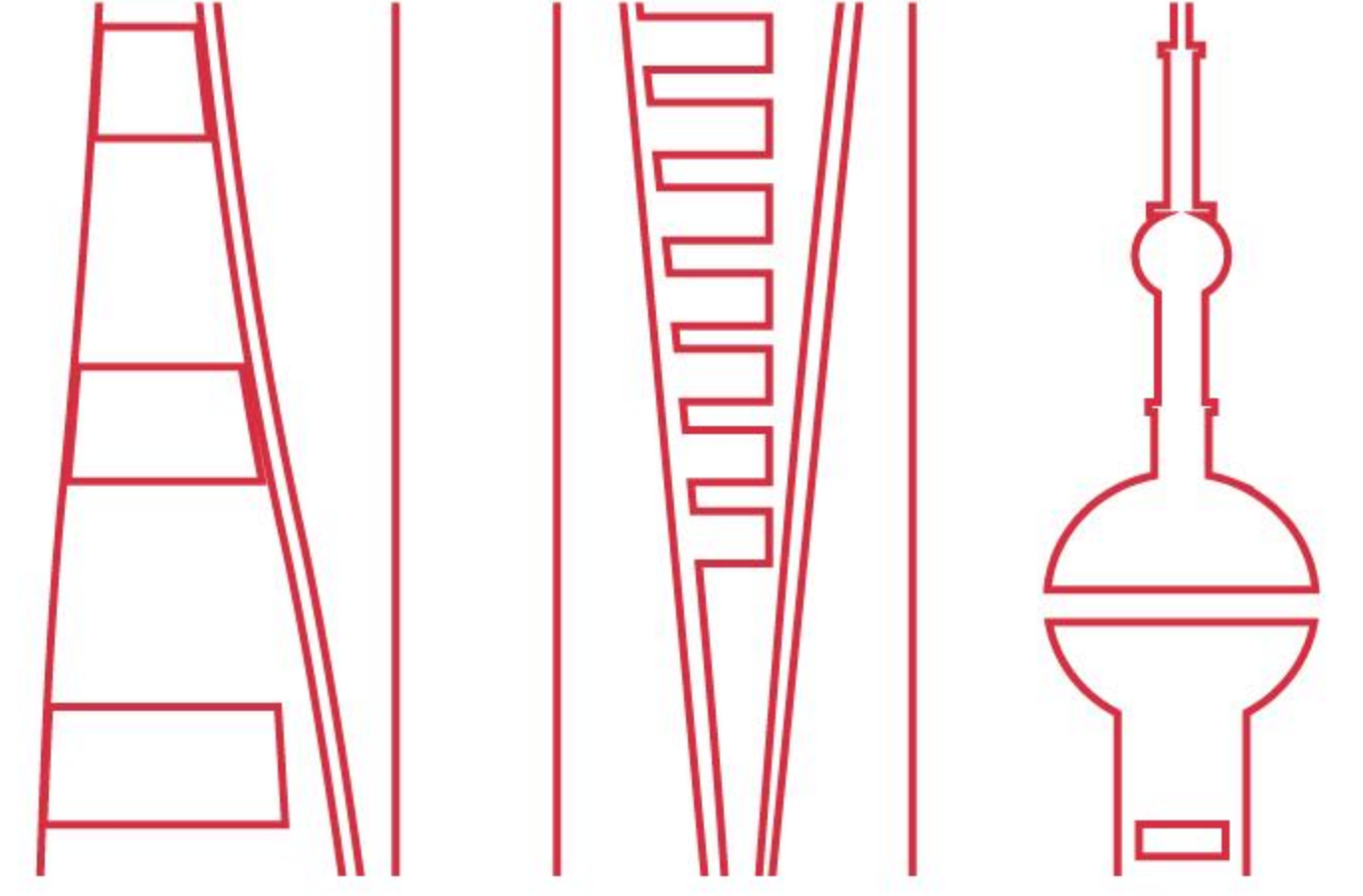


BIM Implementation Consultant

Standard PC components were created in accordance with the requirements in the Shanghai BIM Application Guidelines, and engineering problems were discovered, exposed and solved in advance through collision detection and other means. Optimize pipeline design and increase the clear height of garage, civil defence and other areas.



Enterprise level BIM standards



Standard & planning

SmartBIM has formulated enterprise BIM standards for many large groups such as Zhangjiang Hi-Tech, Lujiazui Group, Waigaoqiao Group, Pukai Group, Shentong Metro, etc. Through in-depth research and interviews with enterprise personnel, and in conjunction with the current situation of enterprise BIM, SmartBIM has formulated enterprise-level BIM standards from the perspective of top-level design, guided and standardized the application of BIM in their construction projects.



BIM Model Handover Specification

巴斯夫 BIM 交付标准

V1



BASF BIM Standards

Guided by the effective application of BIM data in the operation and maintenance phase of the project, SmartBIM set standards for the production, sharing and delivery of BIM data for all participants of BASF Zhanjiang verbund site at the project planning stage, and provide reference bases and lessons learned for the introduction of BIM technology in other projects of the Group.



Application Tools



AI Smart Site



Intelligent Construction Platform



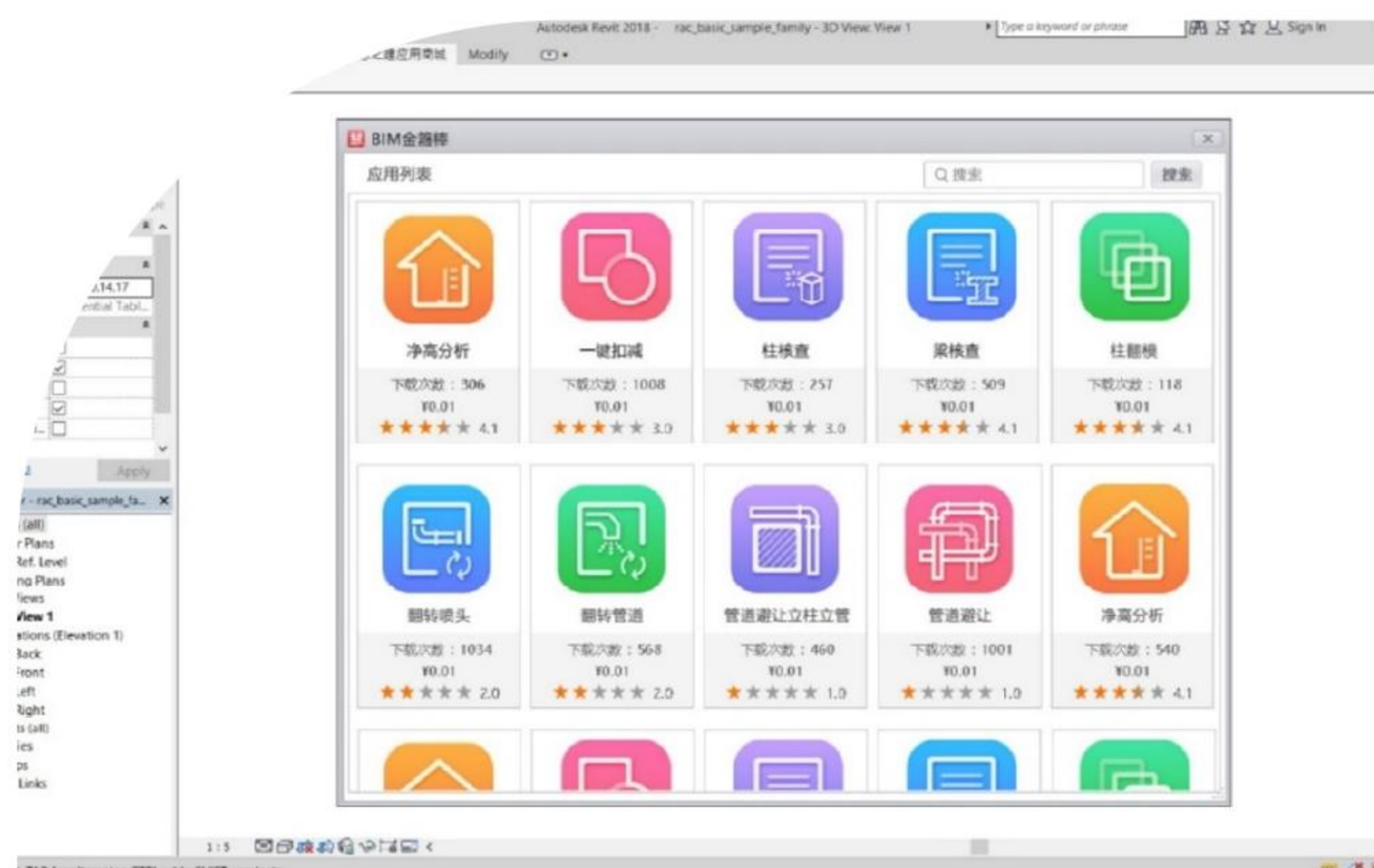
Digital O&M Platform



BIM Tools



With rich experience in Revit secondary development, SmartBIM can provide customized development services for BIM tools for different types of enterprises and individuals according to customers' needs to improve work efficiency and save labor and time costs. Some of the development tools are summarized below:



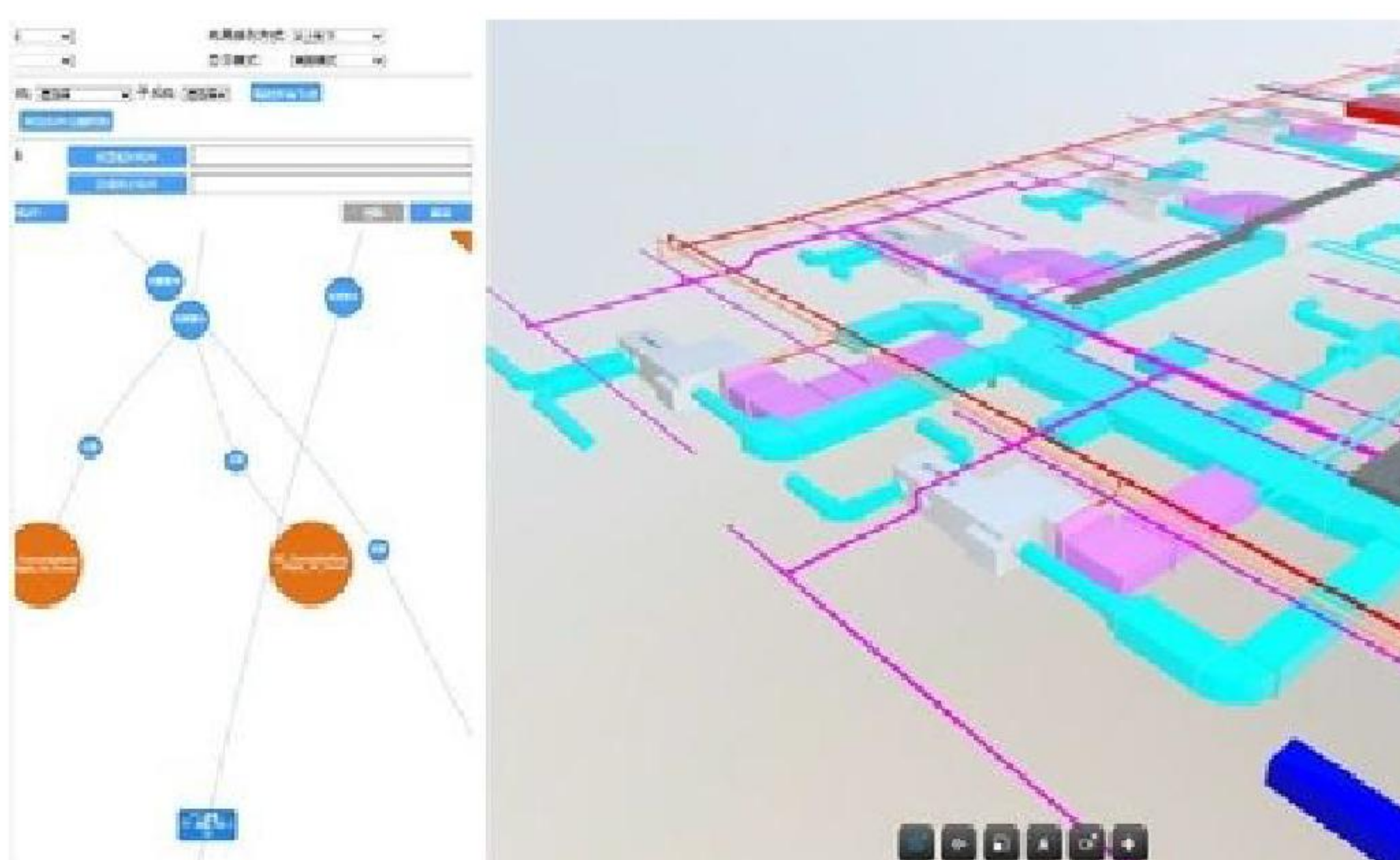
BIM Jingu Bang plug-in toolset

BIM Golden Hoop is a plug-in toolset to help BIM engineers efficiently solve the work in model building, such as beam and column height verification, which greatly improves the quality of the project and saves labor and time costs.

BIM Design Toolset

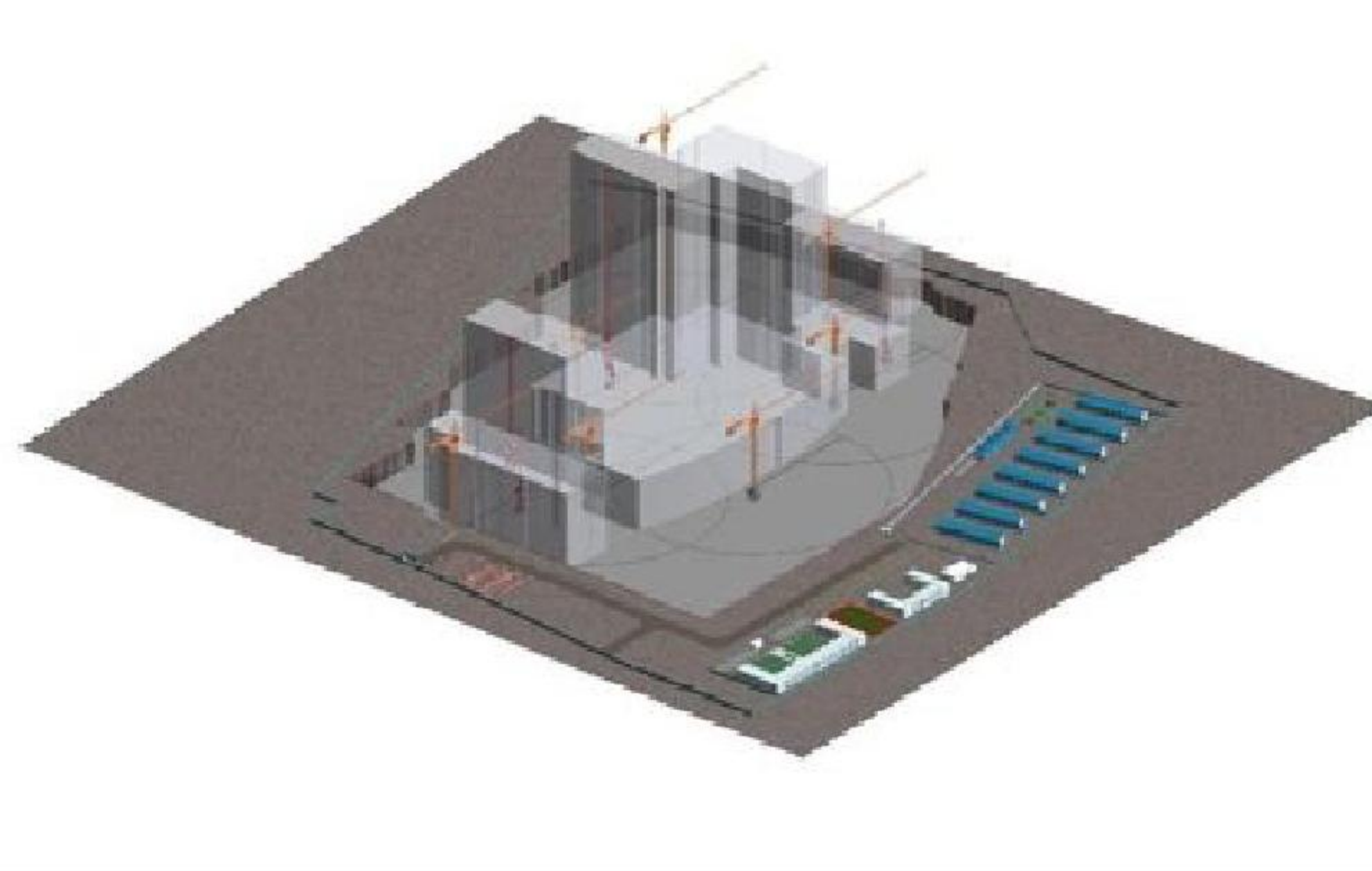
for a Large Real Estate Enterprise

Customized design toolset for civil construction/finishing department of a large real estate enterprise group, supporting component download/module download/sample download, background rewriting/background creation of initial files and other functions.



Graphic database

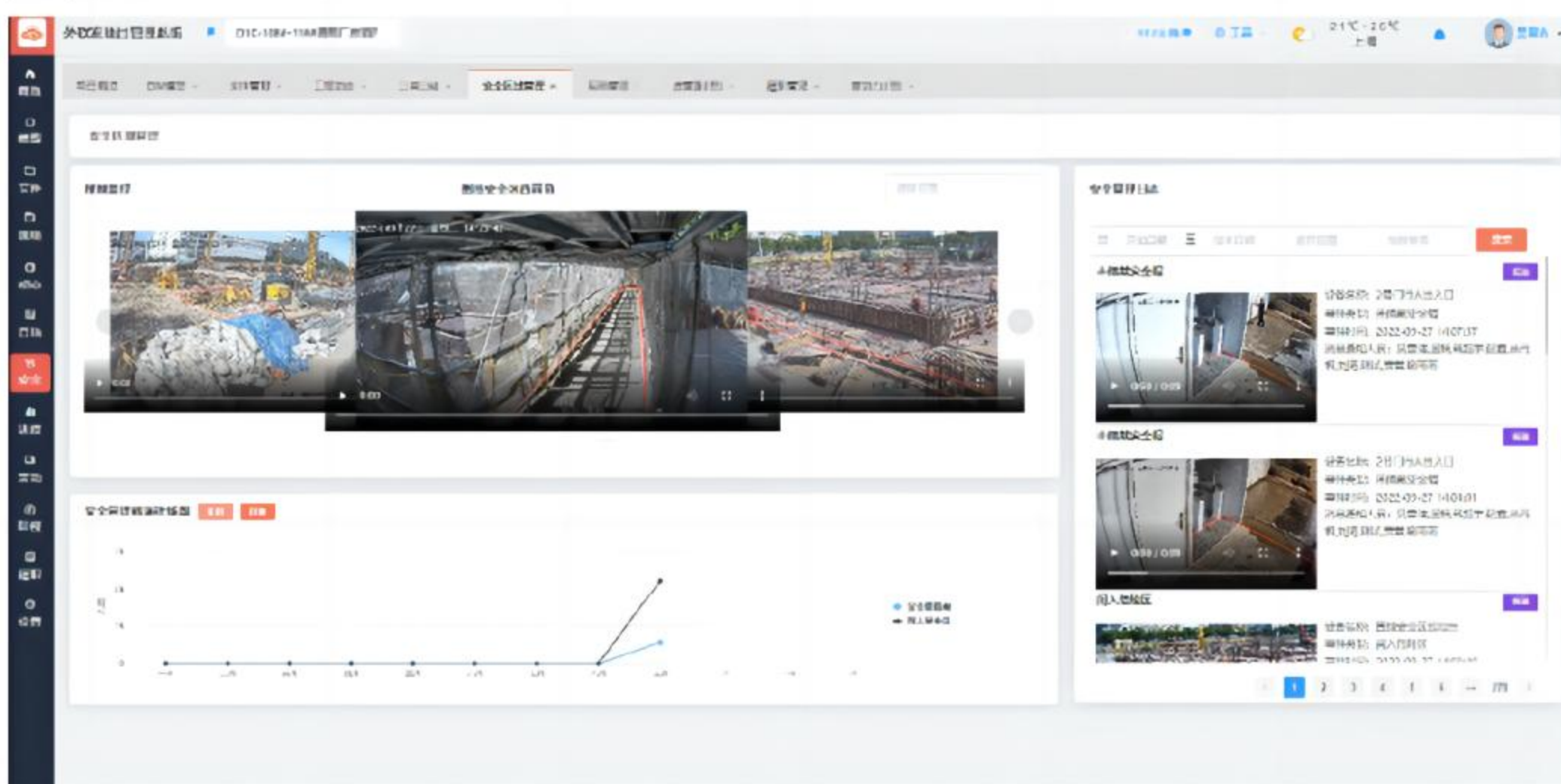
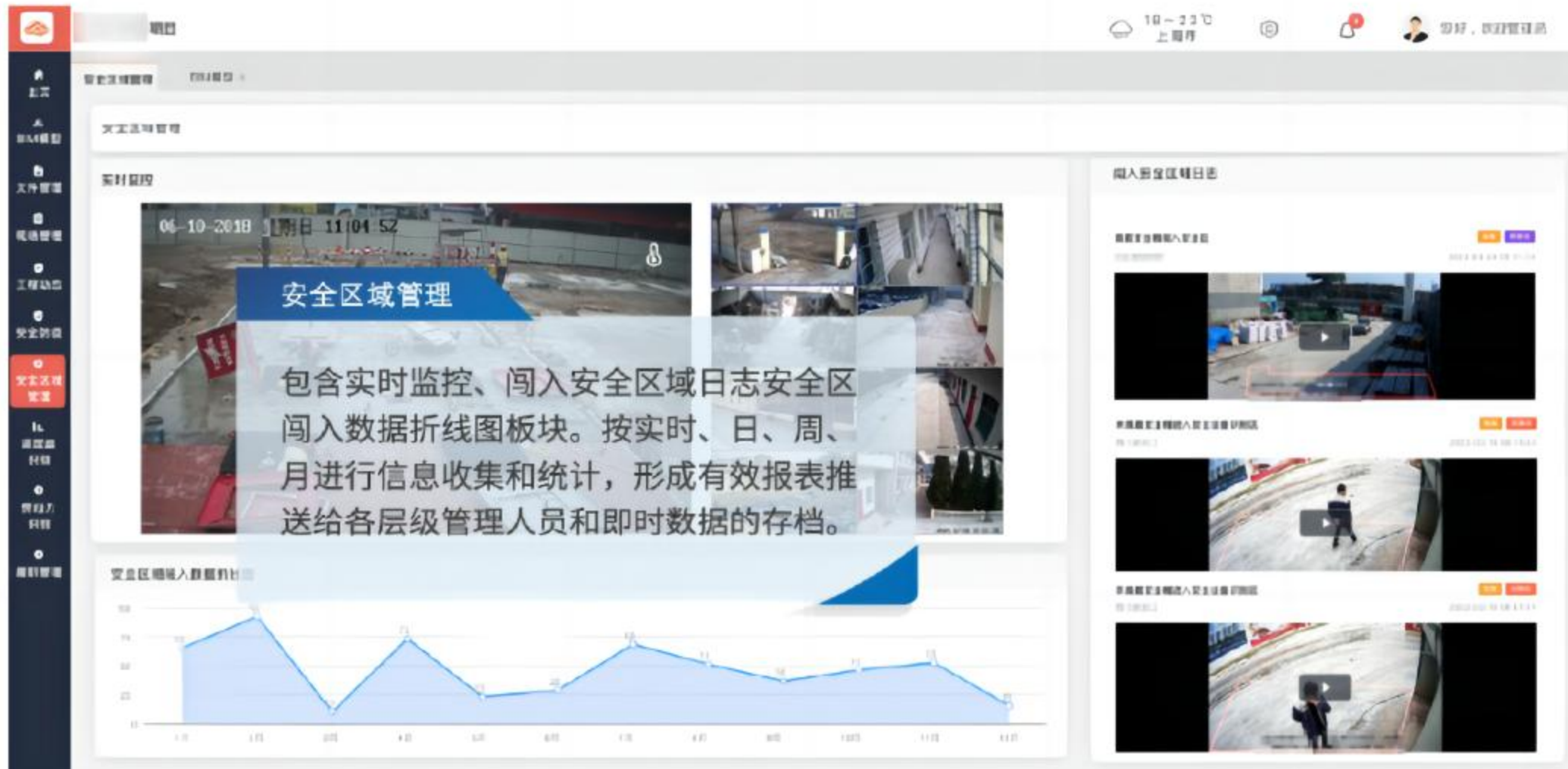
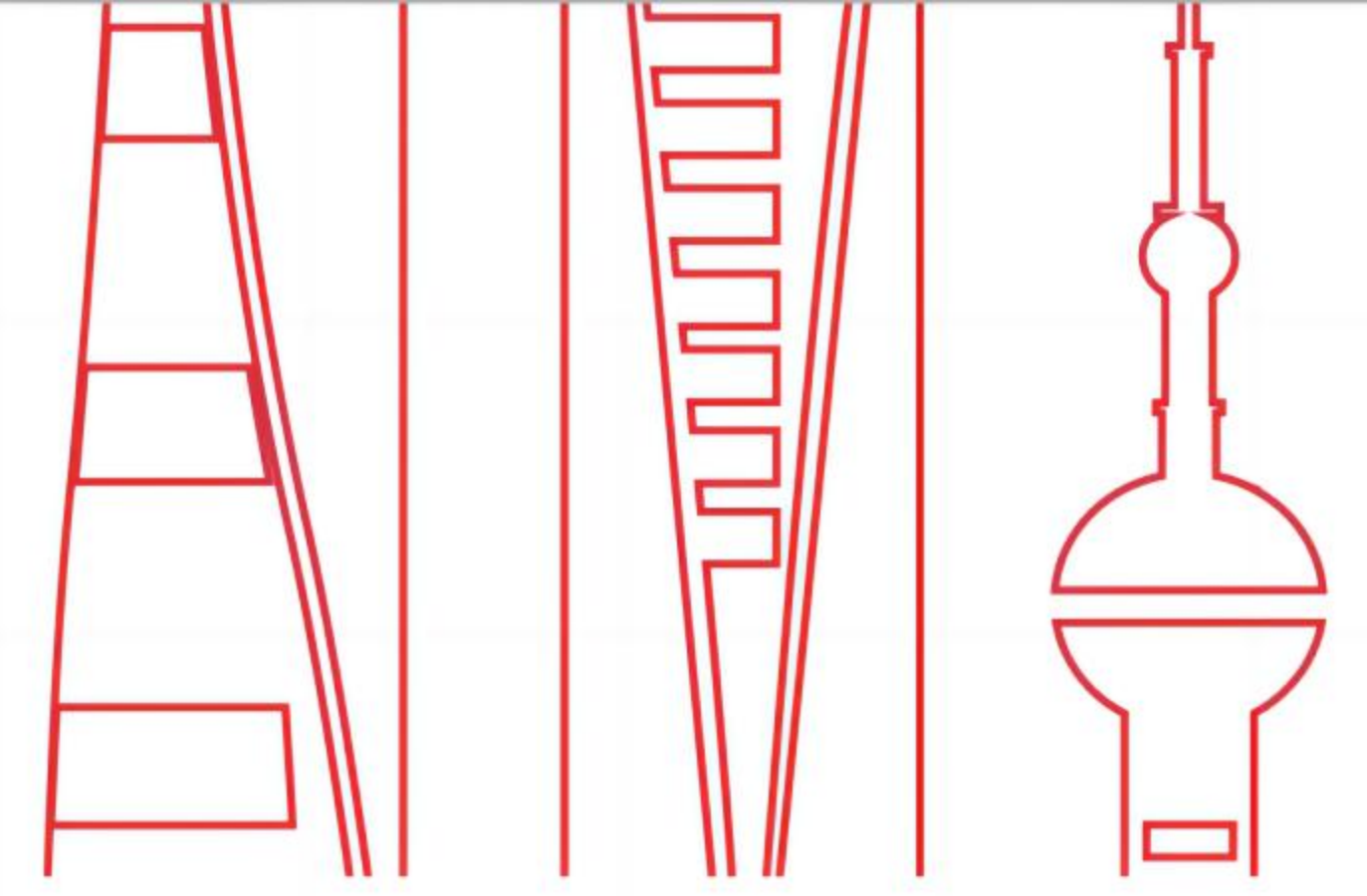
This tool can quickly query and analyze the rich component and system information in the BIM model, such as getting the flow information of the system in the BIM model, the connectivity between multiple devices and the loop information, etc., and combining with the BIM front-end to show the relationship data between components in a lightweight way.



Intelligent field layout tool for construction enterprises

Provide field layout scheme based on derivative design algorithm, at the same time, intelligently analyze and screen large-scale machinery and analyze and compare the relevant selection and performance data, and output the project volume, drawings, lightweight model and other stages of the results of the data.

Success cases



Development of intelligent construction site platform for a general plant in Shanghai

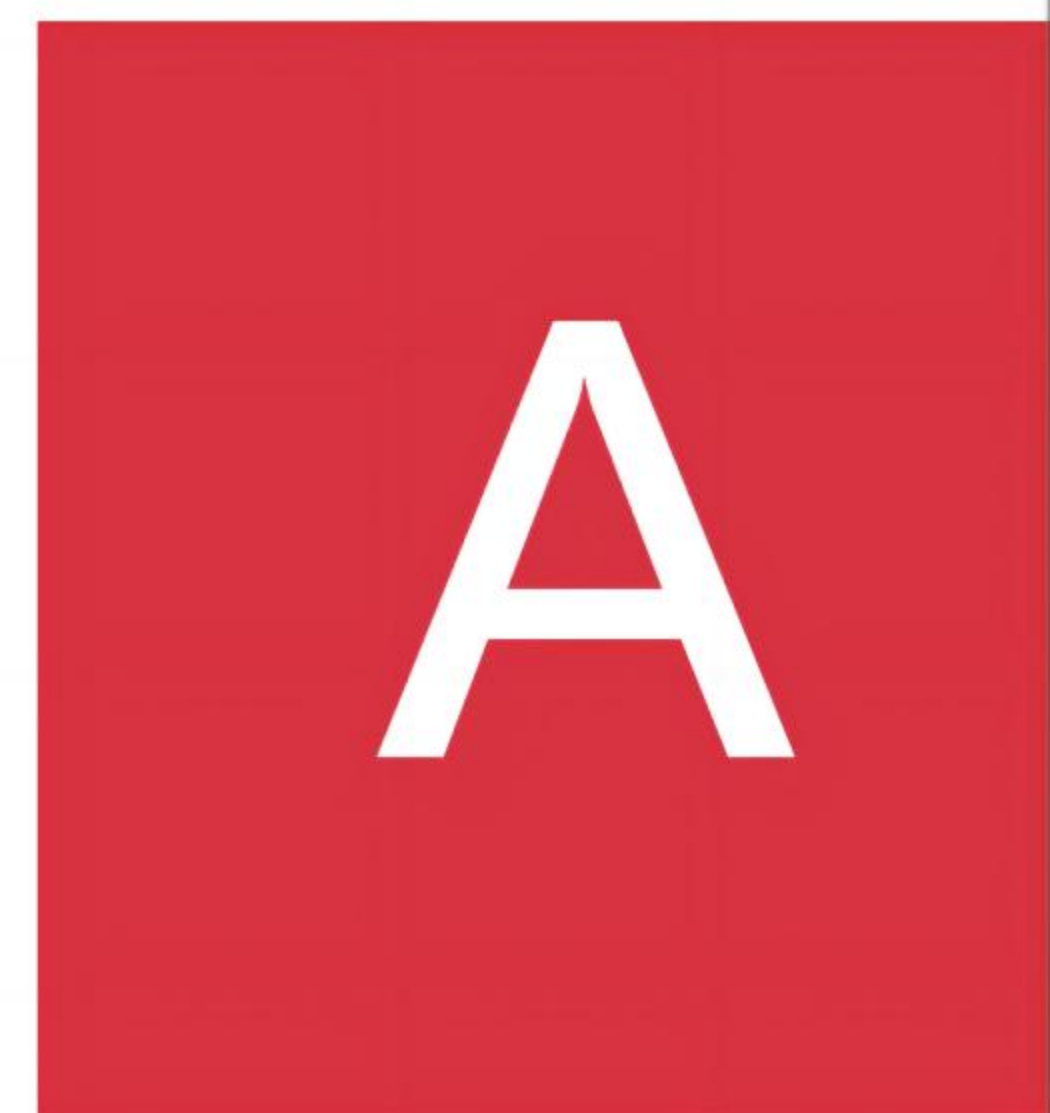
Based on SmartBIM's independent intellectual property platform development, it provides project builders with construction site monitoring information, project progress and other management analysis.

Development of intelligent construction platform for a large high-speed railway station in the west

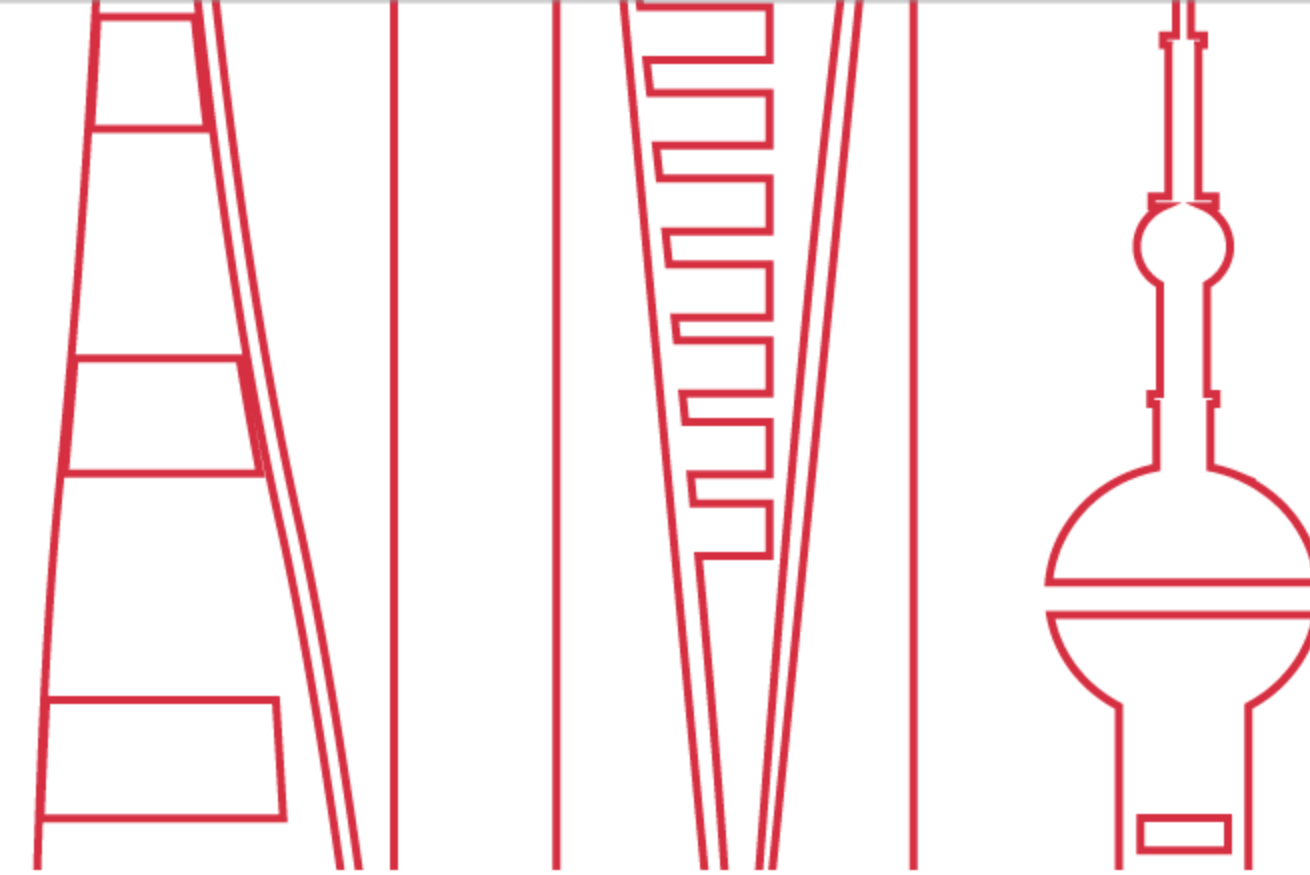
Combined with the project management and control process, it provides subcontracting and on-site progress, quality, safety and other all-round refined management and analysis for the general contractor.



Solutions for Smart site / Smart construction



Products and Services



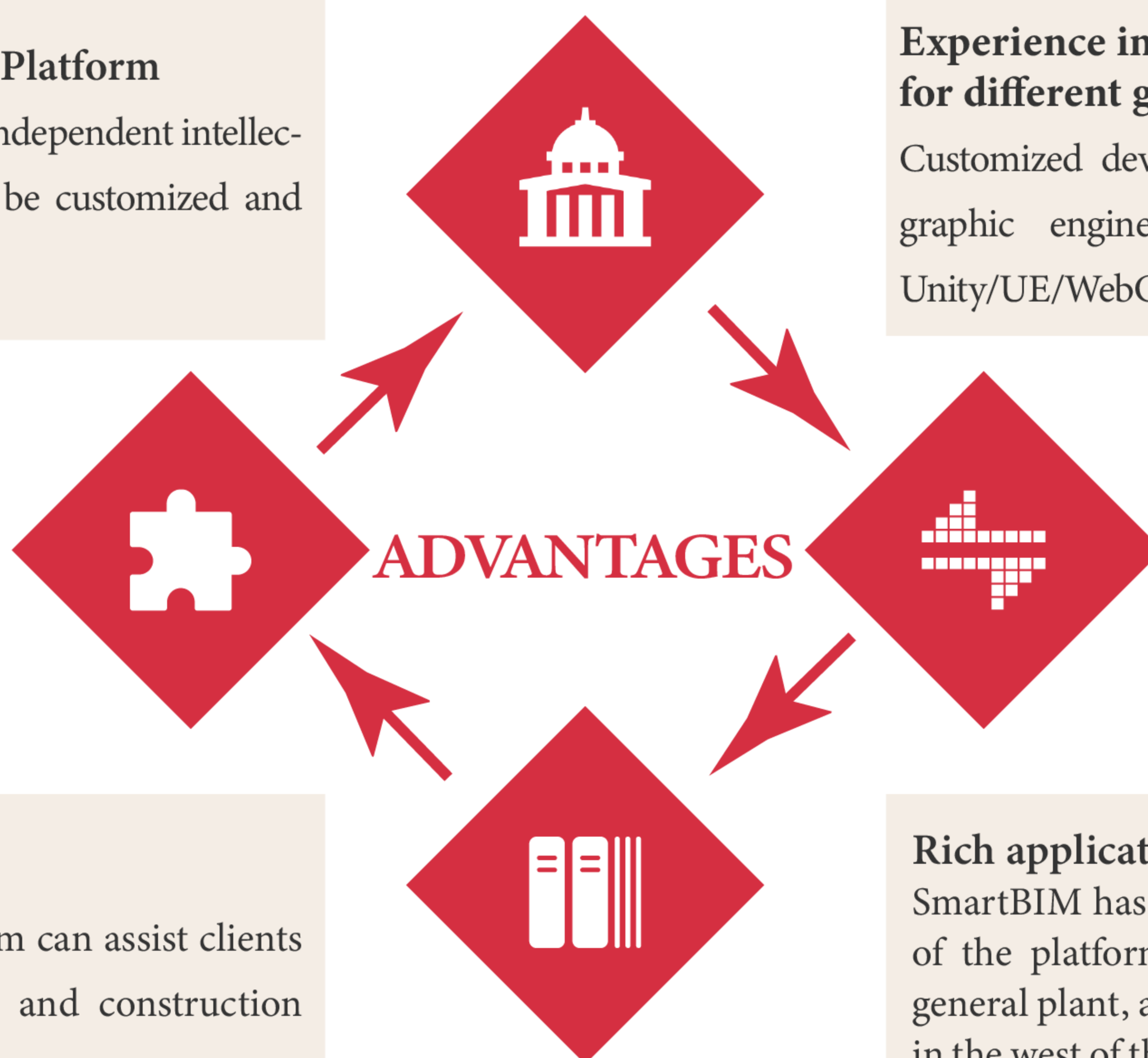
SmartBIM can carry out customized development of smart site / smart construction platform to meet the needs of builders and constructors. Customized development can be carried out according to different customer perspectives.

Intellectual Property Platform

The basic platform with independent intellectual property rights can be customized and developed on its basis.

Experience in developing for different graphics engine platforms

Customized development based on different graphic engines and platforms such as Unity/UE/WebGL.



Consulting Services

The BIM consulting team can assist clients in platform application and construction BIM control.

Rich application cases

SmartBIM has completed the development of the platform, in Shanghai Waigaoqiao general plant, a large high-speed rail station in the west of the depth of the application of a number of projects.

Smart site

Combining the Internet of Things, BIM, big data and other technologies, it integrates the project software and hardware systems and summarizes the data in real time, so as to provide the basis and guarantee for the efficient management of the project management side.

Smart Construction

On the basis of smart construction site, it is closer to the management process of the management side and provides platform support for lean management.

Digital operation platform



Platform Development Introduction

SmartBIM provides digital operation and maintenance platform development with BIM model as the carrier, comprehensively applying Internet, Internet of Things, GIS and other technologies, integrating environmental tenant management, space management, energy consumption statistics and so on. The model and data are interrelated, providing operation and maintenance data and solutions during operation and maintenance, intelligent building system data docking, providing data value-added services, and visually displaying management and operation status. With the use of cell phone cooperation APP, greatly improve work efficiency, operation and maintenance status can be traced.



- Energy Management
- Asset management
- Space management
- Space management
- Emergency management
- Personnel management
- Safety management
- etc.

Facility and equipment management

Manage the entire life cycle data of facilities and equipment, including equipment operation data, maintenance, alarms, products, etc.; view the current operation status of equipment in real time.

Successful Cases



A residential project in Shanghai

Provides the main functions of the project, such as residential sales, lease management, space equipment management, etc., which is convenient for the developer to carry out overall control.



An automobile production line project

Integrate space management, operation and maintenance, energy monitoring and other functions on the same platform, through data-driven project energy management, to provide management and maintenance services for all facilities and equipment of the production line.



An intelligent building project

Realize the control and management of equipment management, shift management, attendance management, inspection management, repair management and GIS+BIM operation and maintenance management in operation and maintenance management.

4 Education and Training



Enterprise customization



BIM Certificate



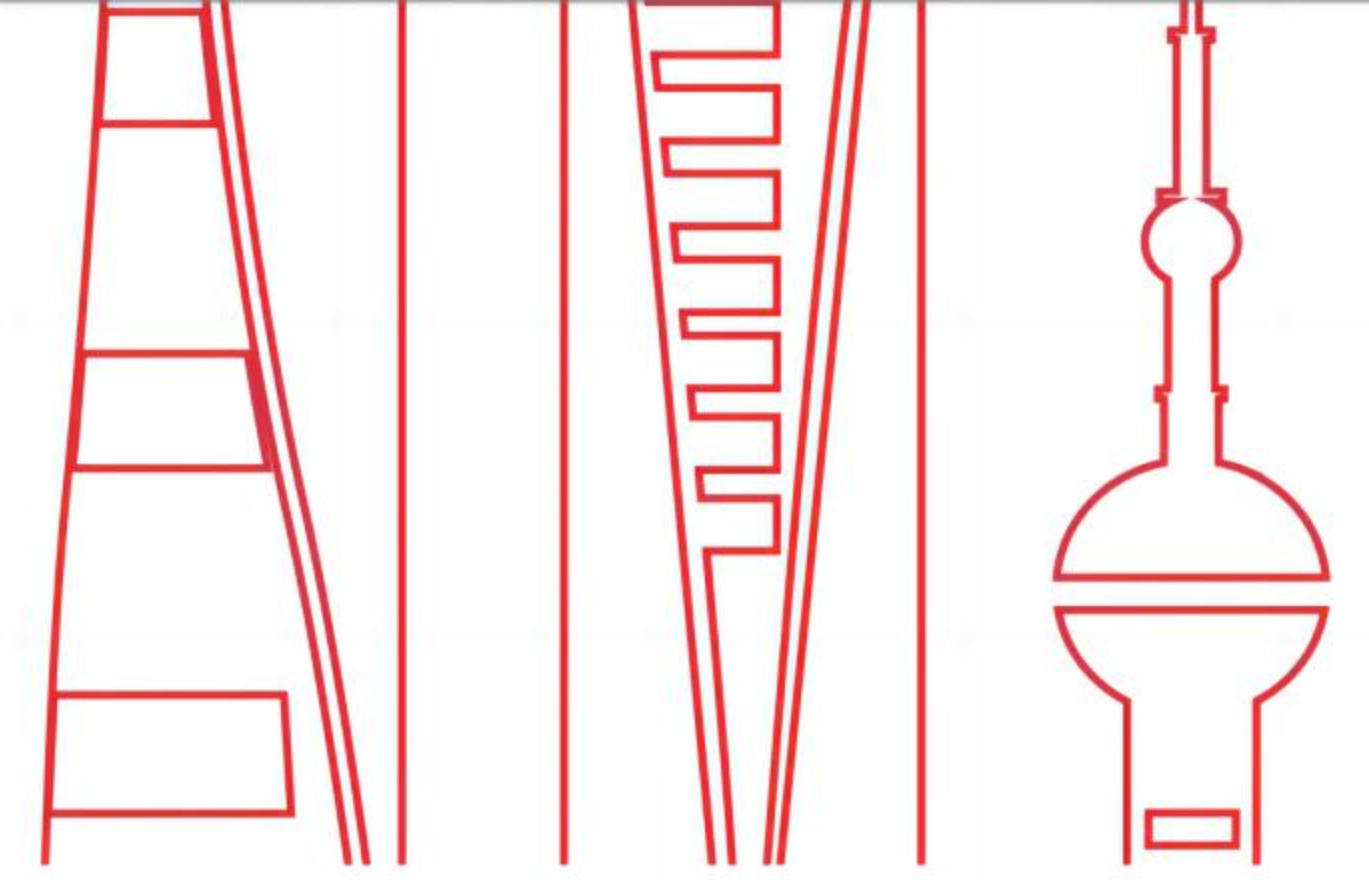
Online course



School-Enterprise
Cooperation



Education and Training



Since 2013, SmartBIM has been committed to cultivating and delivering talents for the industry, and it is the earliest group of teams engaged in BIM training in the industry with the support of project consulting and software research and development, and customized on-the-ground and practical training courses for the BIM industry and colleges and universities. As a training center authorized by China Institute of Graphics, we have trained more than 2,000 BIM talents for the society, and organized more than 8,000 students for BIM level examination, of which the major proportion is customized training for colleges, educational institutions and enterprises, and the rest is training for the social industry.





College



Owners



Design



Construction



Socio-educational institutions

Course Training

SmartBIM has launched four types of courses in response to market demand by arranging and combining the three main subjects of BIM specialization, software and management.

Professional Classes Course	Customized Classes Course	Management Classes Course	Certificate Classes Course
<p>Suitable for people:</p> <ul style="list-style-type: none"> - 0 basic, software foundation needs to be consolidated, the actual project experience is weak students. <p>Course Features:</p> <ul style="list-style-type: none"> - Intensive knowledge points. - Consolidation of routines. - Rapid mastery of in-depth project-based application of the software according to professional and job requirements. 	<p>Suitable for people</p> <ul style="list-style-type: none"> - Enterprises with specific specializations and the need to build a corporate professional BIM team. <p>Course Features:</p> <ul style="list-style-type: none"> - Teaching cases based on actual projects. - Enterprise-specific technical, management and decision-making programs. - Enables organizations to quickly build productive BIM teams. 	<p>Suitable for people:</p> <ul style="list-style-type: none"> - Corporate decision makers and management, project leaders, professional leaders. <p>Course Features:</p> <ul style="list-style-type: none"> - Define the direction of BIM market and application environment for the management, and assist in determining the technological development route of the enterprise. 	<p>Suitable for people:</p> <ul style="list-style-type: none"> - 0 foundation, weak foundation students, students who have the need to take the BIM certificate. <p>Course Features:</p> <ul style="list-style-type: none"> - Closely aligned with syllabus knowledge. - A solid and comprehensive understanding of how to create architectural models.

Education and Training



Certificate

National BIM Skill Level Examination

"National BIM Skill Level Examination" is a BIM examination held by China Institute of Graphics, and SmartBIM, as an authorized training site in Shanghai, has held 20 consecutive level examinations, which have been praised and recognized by the organizing units and students for their orderly examination organizing ability and high passing rate, and has organized more than 8,000 people to take the examination. More than 8000 people have participated in the exam.

After passing the "National BIM Skill Level Examination", you will get the "National BIM Skill Level Examination Certificate" issued by China Institute of Graphics



College-enterprise cooperation

With the booming development of BIM industry and the government's vigorous promotion, more and more colleges and universities have begun to pay attention to the research and development of BIM courses, and some colleges and universities have already incorporated BIM into the mandatory courses for majors. SmartBIM has joined hands with many colleges and universities to create an "industry-university-research integration" training mode, and has established long-term school-enterprise cooperation with many colleges and universities and set up BIM joint labs.



Online courses

Users can learn BIM exam courses online, get the most complete analysis of real questions, and unlock all kinds of software tutorials through the knowledge store "BIM Hui Xue Tang", and there are free learning materials such as industry technical training salons, BIM tips, and good books to share with students.

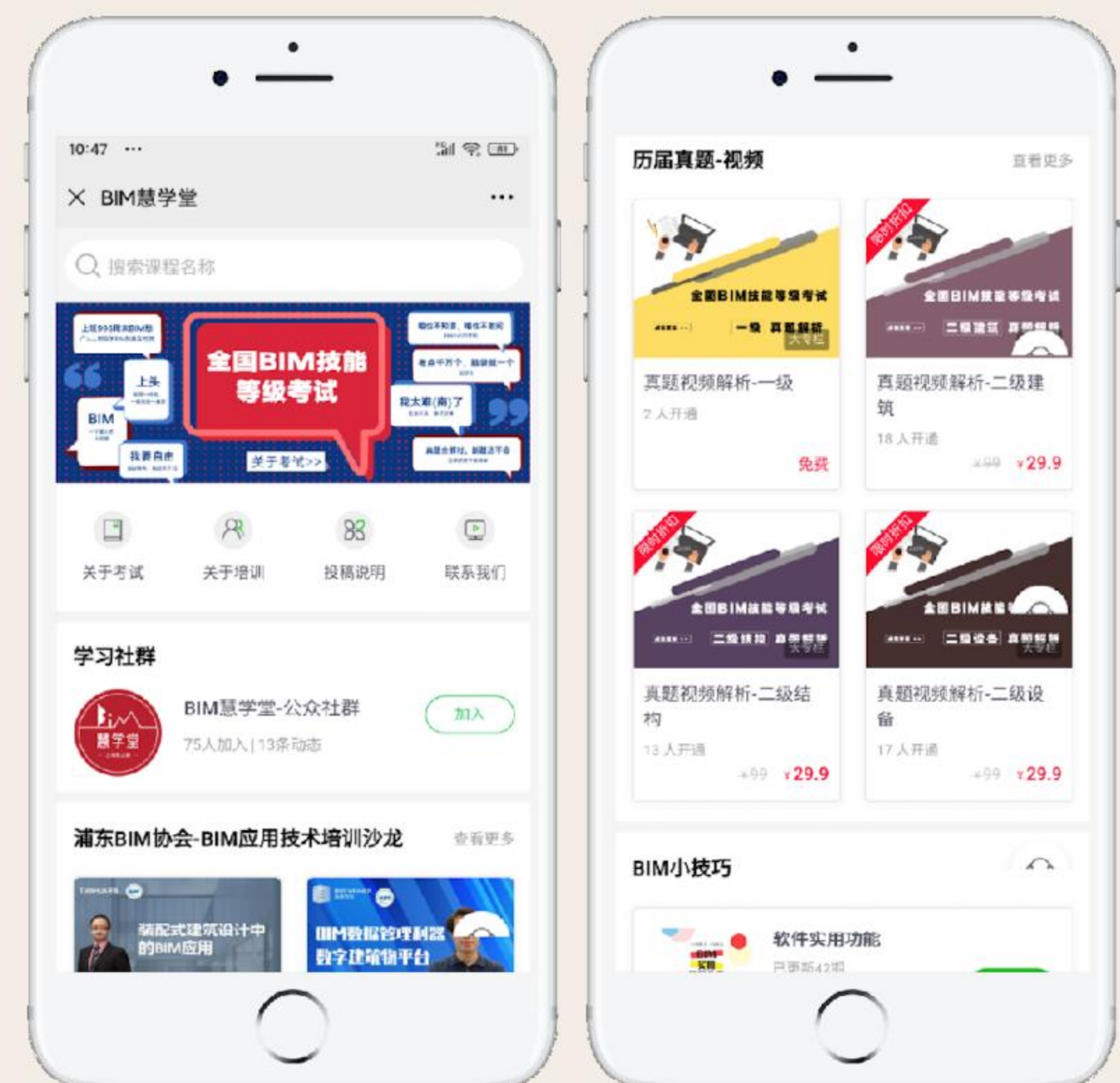


Your Pocket Classroom



Scan the code to enter

Massive online video + Exclusive tutor Q&A
+ Collection of exchange community





BIM咨询、BIM研发和BIM培训三大业务类型综合服务客户

Provide comprehensive services to clients by our three business types

“BIM consulting , BIM R&D and BIM training”

上海慧之建建设顾问有限公司

Shanghai smartbim construction counsulting Co.Ltd.

Tel: +86-18321683515 (Jin JIN)

Email: 739138692@qq.com