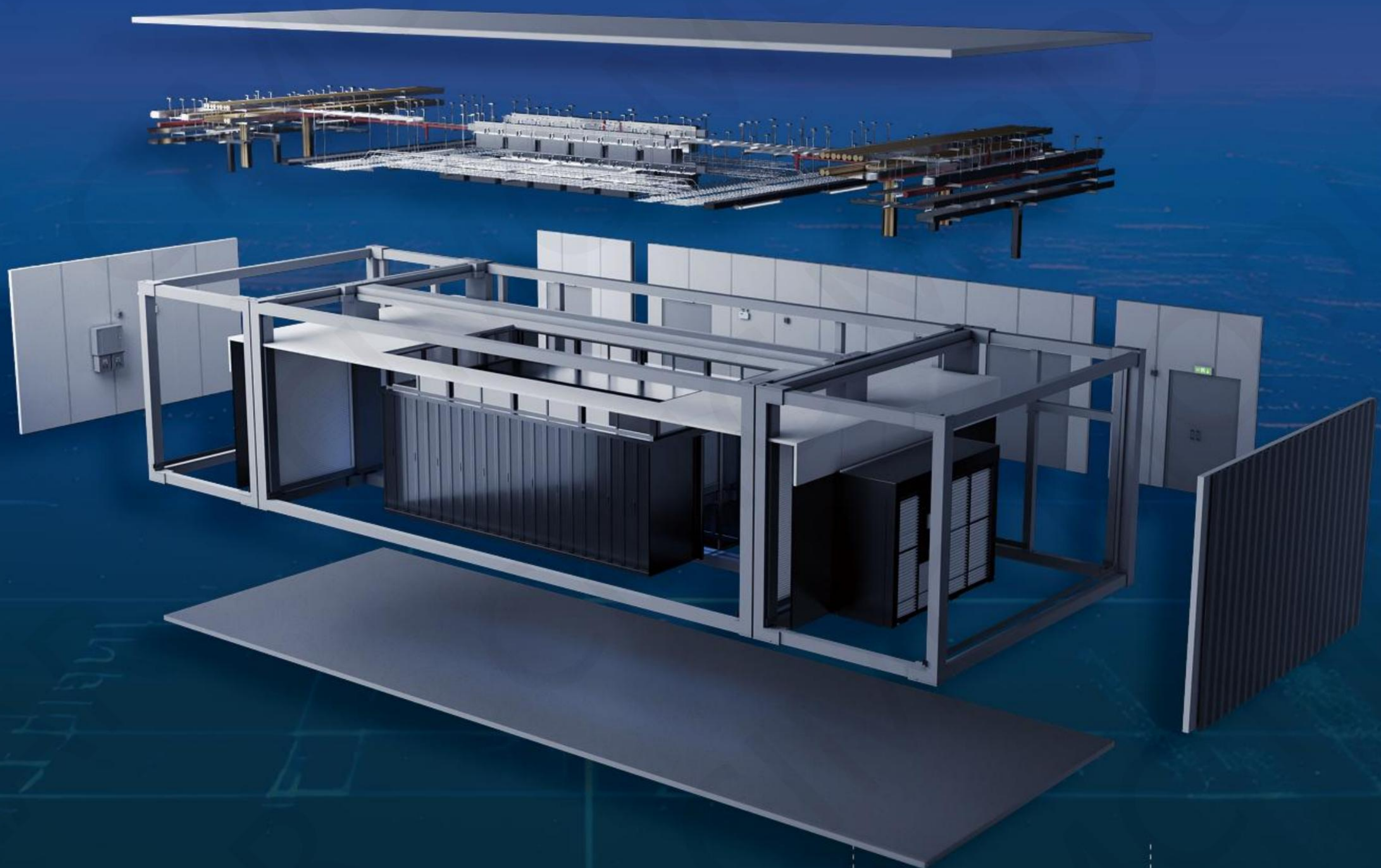# Prefabricated Modular Data Center Solution

Scalability | Flexibility | Efficiency

China International Marine Containers(Group) Ltd.(CIMC)

Diversified multinational industrial group and world leading supplier of logistics and energy equipment.

CIMC Modular   Since 2004

Integrating advanced equipment manufacturing with high-quality green building practices, CIMC has introduced an innovative construction model, named CIMC Modular, which uses a steel structure including various elements like enclosure, MEP works, decoration, and more. About 90% of the building processes can be shifted into a controlled factory setting, which provides superior-quality products for the industry.

As a division of the CIMC Group, CIMC Modular has been leading the way in the industry for 20 years and expanding EPC (Engineering, Procurement, and Construction) sector within the domestic market, operating under Shenzhen CIMC Construction.

CIMC Modular Building Malaysia

As the Southeast Asian market continues to evolve, CIMC Modular is strategically expanding its presence in the region. In November 2023, CIMC Modular Building Malaysia Sdn Bhd was established, marking a significant milestone in the company's regional growth strategy. This subsidiary is dedicated to offering localized services to clients within the Malaysian market, ensuring proximity and tailored solutions to meet their specific needs. It is also certified by CIDB, which underscores its commitment to quality and standards.

R&D Capacity
100+ Engineers
TeamFully BIM Design

EPC Project Management
GC License in China
Experienced MP Team, Sub-cons

Production Capacity
Multiple Production bases
Productivity: 5000+ units/year

Global Delivery
Private Cargo Terminal
20+ Years Global Delivery Experience

Why Choose Us

9 Application Areas

School	Apartment	Office Building	Camp	Data Center

Transitional and Affordable Housing Projects	Hospitality and Cultural Tourism Industry	Anti-epidemic Emergency	Medical Industry

It is prefabricated in the factory with a completion rate of **90%**

It can reduce the total construction period by **50%**

It can reduce the construction waste by **90%**

With leading technology, high-quality products, and a global business layout, CIMC has provided global users with approximately

100,000 building modules

finished products that cover an area of **4,000,000 m^2**

a cumulative total of **over 200** projects

- Global independent intellectual property rights
- Global recognition of the building quality
- Rapid construction in large batches
- Widely used in the global market
- Global logistics and installation service

Global Access ⌄

The modular solutions meet permanent construction standards for most countries worldwide. Complies with local building codes in countries as China, the EU, the UK, the Us, Australia, and Singapore, etc.

Modular DC Solutions

With the rapid development of

Cloud Computing | **Big Data** | **IoT** | **AI**

The demand for the construction of data centers has been increased dramatically.
The data center construction industry stands in dire need of a technological revolution.

However

Traditional Data Center Construction

Long Construction Cycle | Heavy Dependence on Local Labor | Uncontrollable Quality | On-Site Management Schedule | Difficulties of Delayed Construction

To address these industry pains

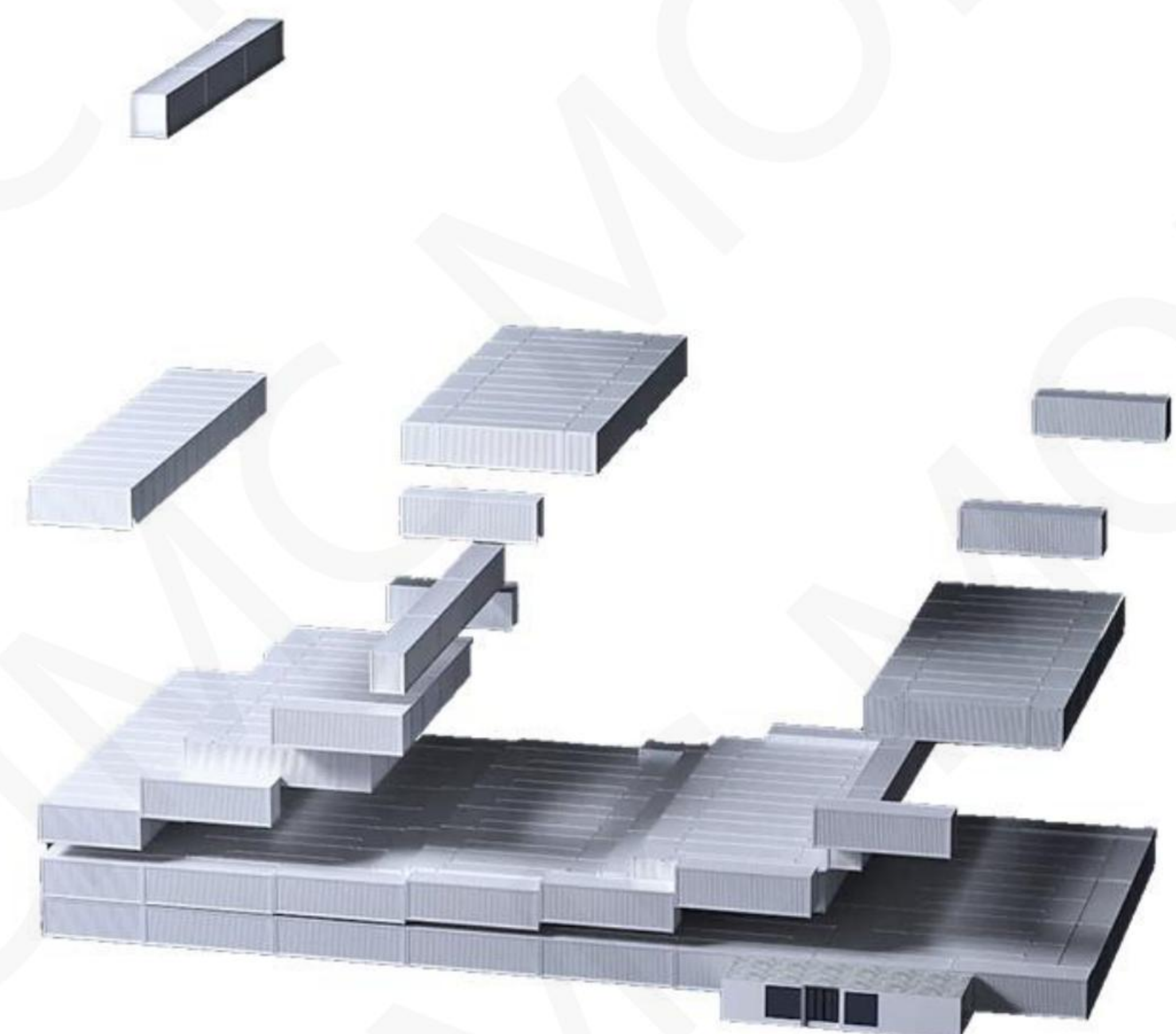## Prefabricated Modular Data Center Solution

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Construction Cycle shortened by **50%**

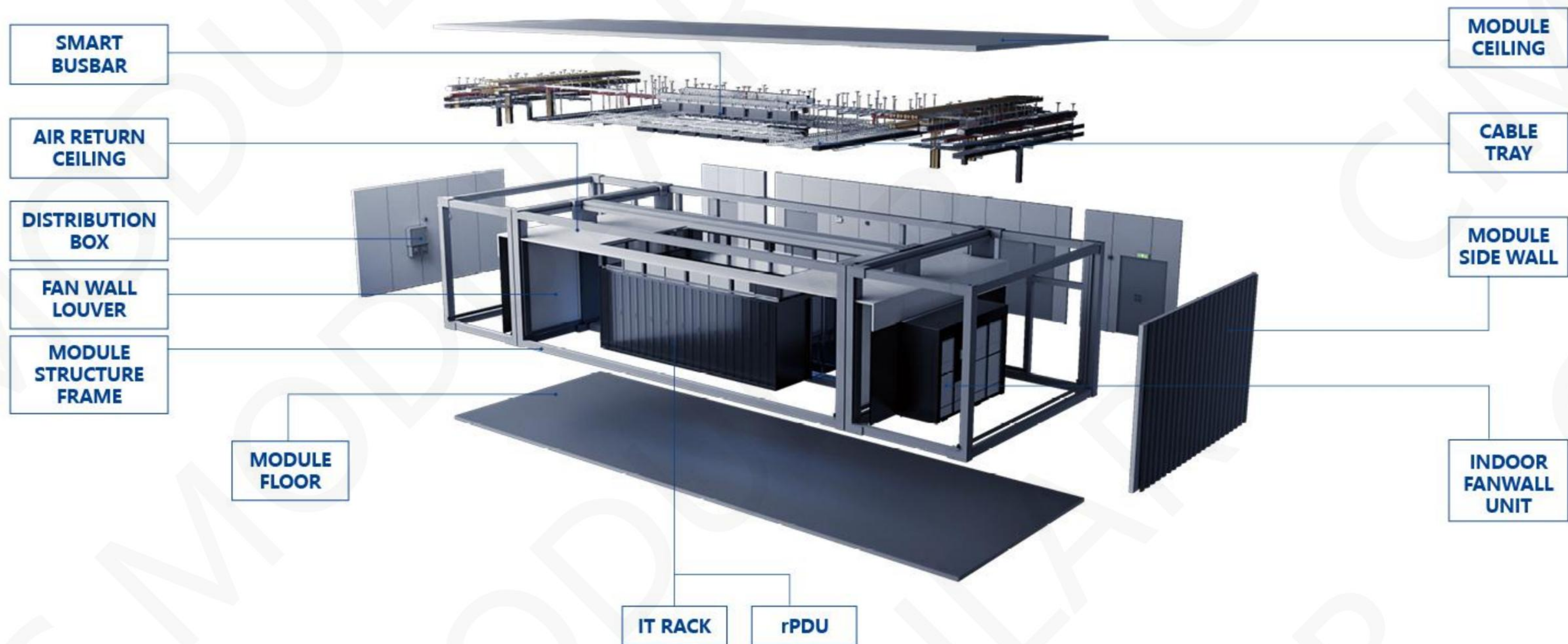Factory completion rate of modules reaches **85%**

Industrialized production with controllable quality

Difficulty of construction management reduced by **60%**

Risk of delivery delay reduced by **50%**

Modular DC Solutions

SMART BUSBAR

AIR RETURN CEILING

DISTRIBUTION BOX

FAN WALL LOUVER

MODULE STRUCTURE FRAME

MODULE FLOOR

IT RACK   rPDU

MODULE CEILING

CABLE TRAY

MODULE SIDE WALL

INDOOR FANWALL UNIT

- Fully prefabricated IT equipment module, MEP module (cooling), power module, auxiliary module...
- Pre-integrated and Cx1 FAT completed
- LEGO assembly
- Minimize on-site workload
- Construction cycle 7-9 months
- Supports fast deploy and capacity expansion

4.15M Height Solution

- Recommended for mid-low-density data center
- No raised floor, floor-mounted
- Less than 52U/Rack
- DX air cooling, chilled water or liquid cooling

7M Height Solution

- Recommended for both mid-low-density and high-density data center
- 300-1200mm raised floor, floor-mounted
- More than 52U/Rack
- DX air cooling, chilled water and liquid cooling

Modular DC Solutions

Skid Modules + Traditional Building for Cost-Efficiency Solution

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Construction Cycle shortened by **30%**

Factory completion rate of modules reaches **50%**

Difficulty of construction management reduced by **40%**

Risk of delivery delay reduced by **30%**

- Skid Modules as non-structure components
- Pre-integrated and pre-tested
- Drawer-type assembly
- Traditional building constructed concurrently
- Reduce on-site workload
- Construction cycle: 12-15 months
- Supports fast deploy and capacity expansion

- Stackable for unlimited ceiling height
- Flexible module type, quantity, and layout
- More than 42U/Rack
- Liquid-cooling, air-cooling

Successful Cases of DC

Now, CIMC has completed the construction of approximately 100,000m^2 of data centers for global clients, supplying about 3,000 modules and 10,000 cabinets.

All projects are permanent buildings and comply with local building codes an acceptance specifications.

CIMC is responsible for detailed design, production manufacturing, integrated wiring, integrated equipment installation, transportation, lifting, module joining, commissioning, and other full-process management tasks.

Ulanqab Cloud DC »

Finished in : 2019
Floors : 5
Floor Area : 9223 sqm / block
Scale : 368 modules / block
         1072 it racks / block

« Langfang Cloud DC

Finished in : 2020
Floors : 5
Floor Area : 9460 sqm / block
Scale : 372 modules / block
         1072 it racks / block

Dongguan Tai Ke Yuan DC »

Finished in : 2019
Floors : 5
Floor Area : 5928 sqm / block
Scale : 172modules / block
        1152 it racks / block

« Bahrain Cloud DC

The largest modular
data center project in
the Middle East

CIMC MODULAR BUILDING MALAYSIA

Global Project Experience

欧洲
Europe

亚洲
Asia

中国
China

北美洲
North America

非洲
Africa

大洋洲
Oceania

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