

Nan Fung Airside – Integrated Building Digitization Platform (IBDP)



Client

Nan Fung Group

Location

Hong Kong

Key services provided

Design and deploy an Integrated Building Digitalization Platform for a mixed-used development

BRIEF

AIRSIDE is a 1.9 million sq. ft mixed-use commercial development in the Kai Tak area. AIRSIDE will be an iconic landmark in Hong Kong. Neuron team support the design, supply, delivery, installation, configuration, customization, testing and commissioning, documentation, training and maintenance of the Integrated Building Digitalization Platform (IBDP).

DESIGN APPROACH AND IMPLEMENTATION

The platform include universal on-premise data platform based on high performance Time Series Database (TSDB) for interfacing with various building systems through standard API and Broker mechanism.

Advanced data analytic platform based on Big Data Technology with completed data pipeline for data ingestion, processing, data lake storage, analytic, visualization and other system being subscribed.

SCOPE OF WORKS

- Neuron IoT Hub
- RFID for asset management
- BIM + AM Integration
- Building Insight Analytic Dashboards
- 3D Digital Twin
- System alarms and operation suggestions
- AI-based HVAC Optimization
- Fault Diagnosis and Detection

HOW WILL WE APPLY THESE TO THIS PROJECT?

Incorporated with a ground-breaking digital technology, Neuron can integrate and central monitor all buildings floors and tailor to meet different needs, bringing common benefits not only daily facility operations, but automated advices in order to optimize production cost, minimize energy usage, and effectively manage building assets.