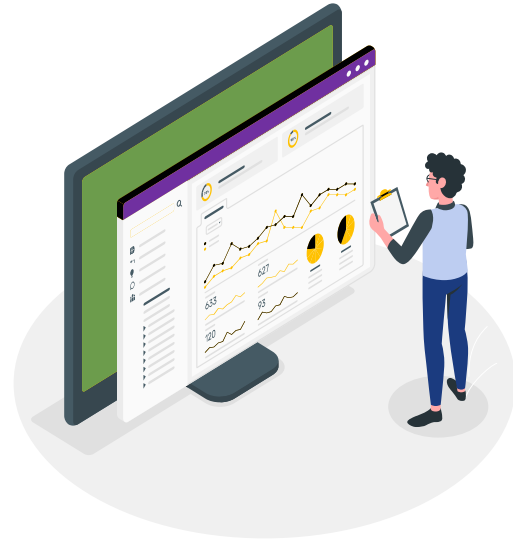


Petit Caisson

A Smart IoT Platform for

*Building Management System
&
City Management System*



Petit.iot[®]

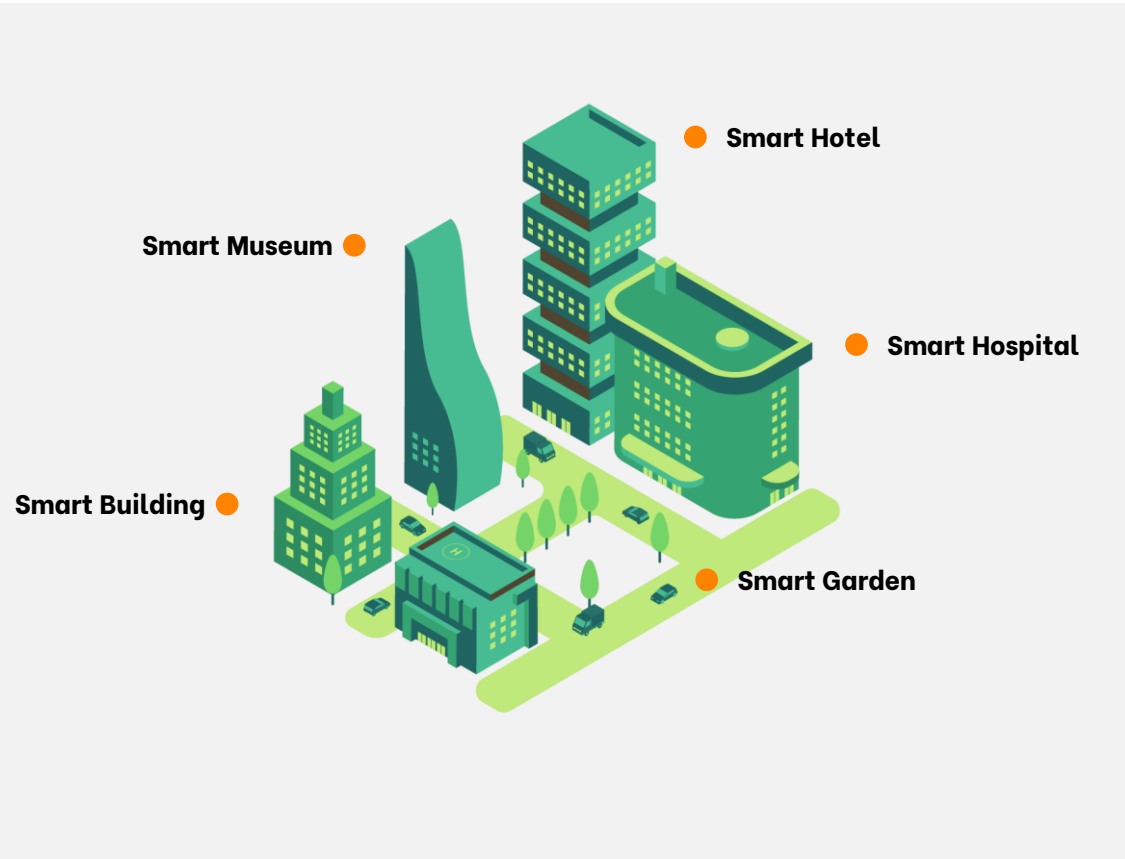
Powered by : High Talent Computer Systems Limited

What is **Petit Caisson**

Petit Caisson is a digital platform that offers comprehensive Artificial Intelligence (**AI**) solutions tailored for offices, buildings, gardens, and more, aimed at enhancing environmental health and boosting energy efficiency.

This solution is applicable in industrial, commercial, and residential settings to lower expenses and facilitate carbon management within Building Management Systems (**BMS**) and City Management Systems (**CMS**).

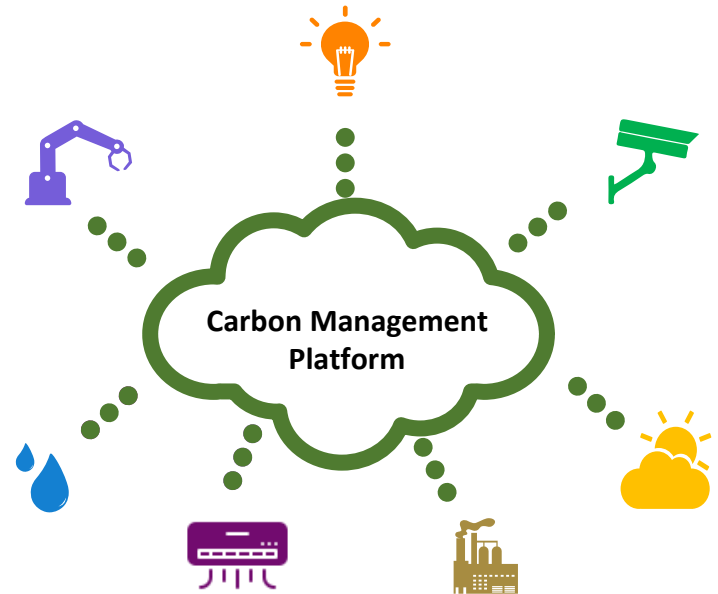
The growth of IoT solutions has significantly increased, addressing the needs of regulators and investors to enhance ESG and Sustainability KPIs. With **Petit.iot** products, integration into existing ecosystems is seamless, providing real-time data. Stakeholders can easily reap the benefits of this technology.



Petit Caisson architecture

Our platform is a sophisticated Software as a Service (SaaS) solution meticulously designed to deliver outstanding scalability and a wide array of functionalities. It boasts flexible features specifically tailored to support a diverse range of Internet of Things (IoT) devices and various ecosystems, ensuring seamless integration and optimal performance across different environments.

The platform facilitates efficient data traffic management by establishing a secure end-to-end connection between IoT devices and numerous industrial sensors, enabling reliable and continuous data flow. This robust connectivity ensures that data is transmitted swiftly and accurately, supporting real-time monitoring and informed decision-making processes.



Petit Caisson

function and feature

Manage and provision devices assets

Provision, monitor and control IoT entities in secure way using rich server-side APIs. Define relations between devices, assets, customers or any other entities

Data collect and visualize

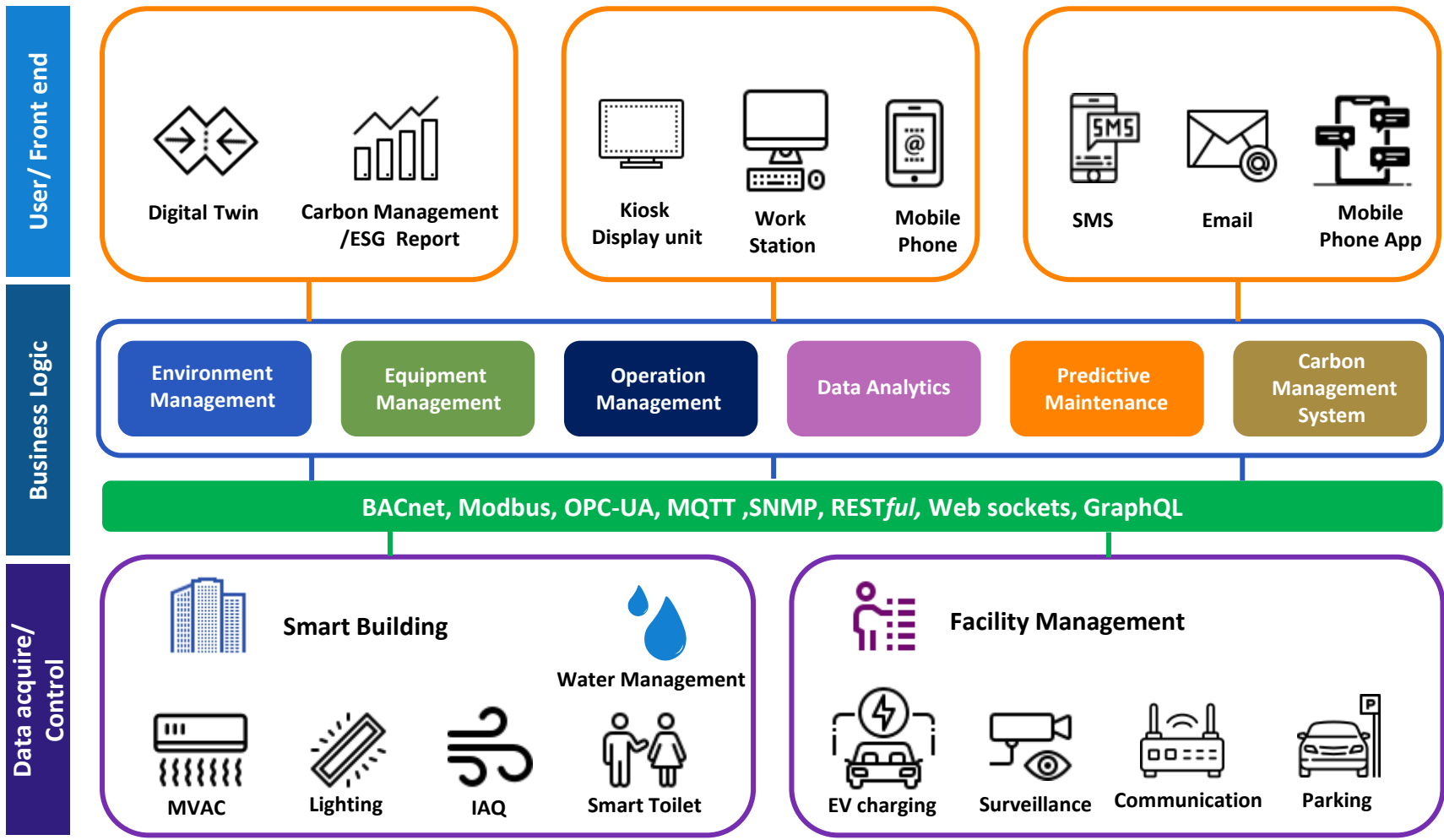
Collect and store telemetry data load in scalable and fault-tolerant design. Visualize data with built-in and custom widgets by flexible dashboards

Process CM report and React

Using data to locate inefficiencies , with AI tools ,stakeholders can react and implement processing more efficiently and cost effective for carbon offset

Carbon Footprint Dataset Acquire

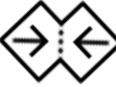

Carbon Neutrality






User/ Front end

Business Logic




Data acquire/ Control

Digital Twin Carbon Management /ESG Report

Kiosk Display unit Work Station Mobile Phone

SMS Email Mobile Phone App

Environment Management

Equipment Management



Operation Management

Data Analytics

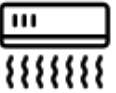



Predictive Maintenance

Carbon Management System

BACnet, Modbus, OPC-UA, MQTT ,SNMP, RESTful, Web sockets, GraphQL





Smart Building Water Management

MVAC Lighting IAQ Smart Toilet

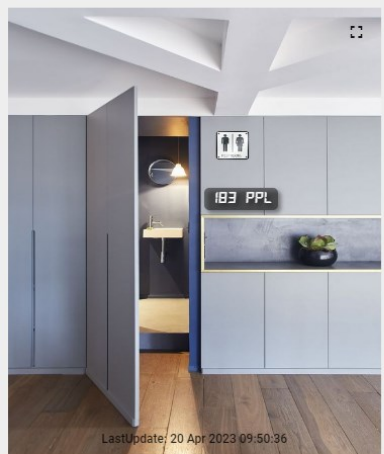


Facility Management

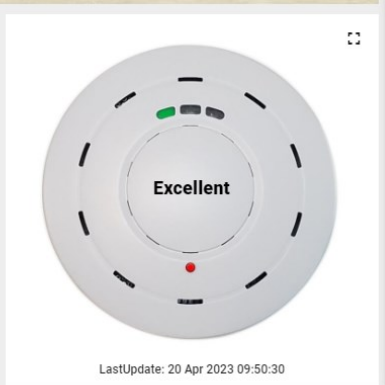
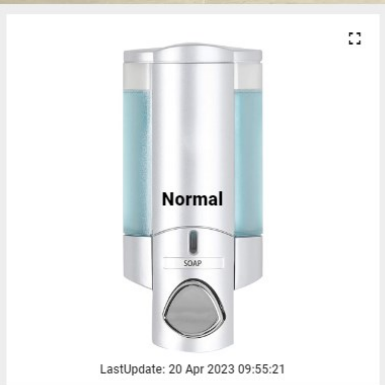
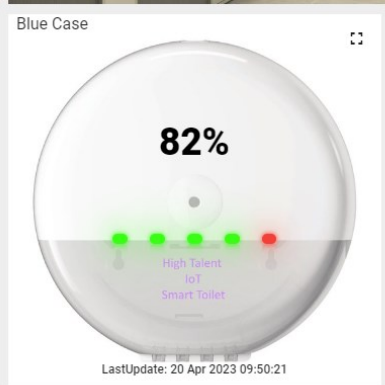
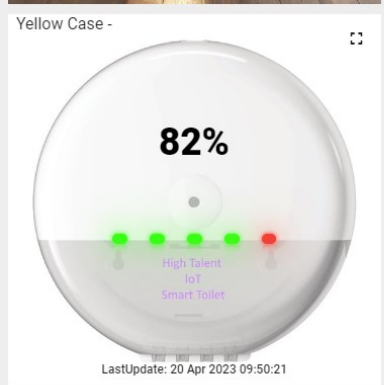





EV charging Surveillance Communication Parking

Dashboard Sample: Smart toilet



Smart Toilet
Status: DRY



Unit Update in 19.1 Hrs ago!
19 Apr 2023 14:49:19

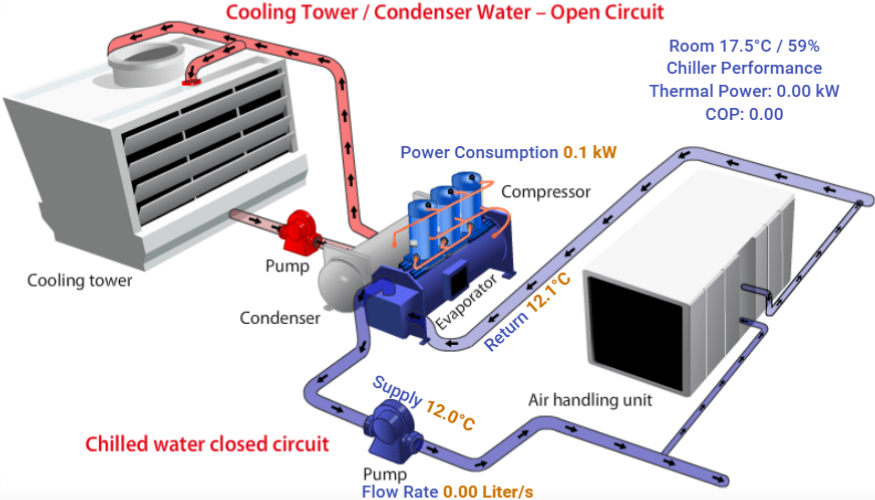


Dashboard Sample: Chiller COP

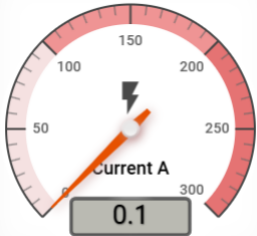
ATL Chiller7 COP Monitor

Chiller #7 COP Monitor

Device	: Chiller
Chiller COP	: 0.0
Thermal Power	: 0.0 kW
Power Consum	: 0.1 kW
WaterFlow	: 0.00 Liter/s
Return Temperature	: 12.1 °C
Supply Temperature	: 12.0 °C
Difference	: 0.1 °C
Last Update	: 19/01/2025 00:48:58



Current



Water Flow



Return °C



Supply °C



Ambient °C



Ambient %



