

# InnoBlock Services Introduction

# About InnoBlock

InnoBlock is a company with the vision to implement **Blockchain and AI technology** in order to increase efficiency, transparency and security in various industries. Our team has a vast amount of experience working with Blockchain and AI, making them well-versed with its different applications and methods of optimization.

- ❖ Inaugural member of CORE Climate marketplace by HKEX
- ❖ Member Company of Incu-Tech Program, HKSTP
- ❖ Official Vendor of Smart Government Lab, OGCIO
- ❖ A Member of Green Finance Association
- ❖ Community Member of Global Reporting Initiative
- ❖ Runner-up at HKMA Global Regtech Challenge 2021



InnoBlock



## HKMA's Global Regtech Challenge: InnoBlock awarded as Runner-up



## HK ICT Awards 2022: Bronze Award – FinTech



# InnoBlock's Core Blockchain Solutions

## Supply Chain



**TT Chain:**  
Supply Chain Traceability



Ecosystem between  
supply chain stakeholders



Track and Trace on products

## ESG/Sustainability

**TTGREEN**

**TT Green:**  
Trusted Carbon Management  
and Reporting Tool



Data Provenance  
and Governance



- Data collection automation and analysis
- Green Finance Risk Assessment and Monitor

## Cyber Security



SafeGuardChain

**SafeGuardChain:**  
Data Loss Prevention with:



Object Detection



Blockchain



Face Recognition



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# InnoBlock's core blockchain solutions and other services

1. Your Trusted Carbon Management and Reporting Tool: TT Green
2. Data Leakage Prevention Solution : SafeGuardChain®
3. Supply Chain Traceability: TT Chain
4. Online Facilities Booking System





# 1. Your Trusted Green Data Platform: TT Green

**TTGREEN**



InnoBlock

# What TT Green Offers



**ESG Reporting**



**Green Finance**



**Carbon & Energy  
Management**



**ESG Trainings**

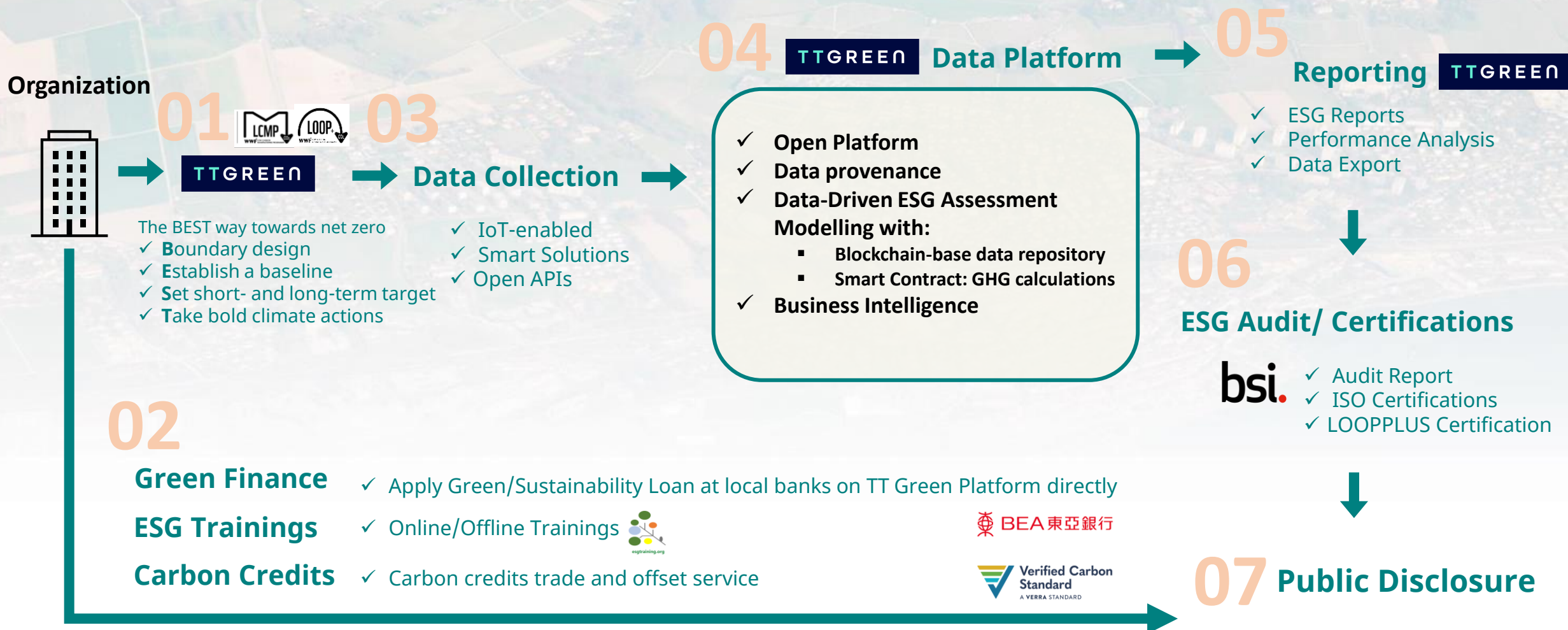


**Carbon Credits**



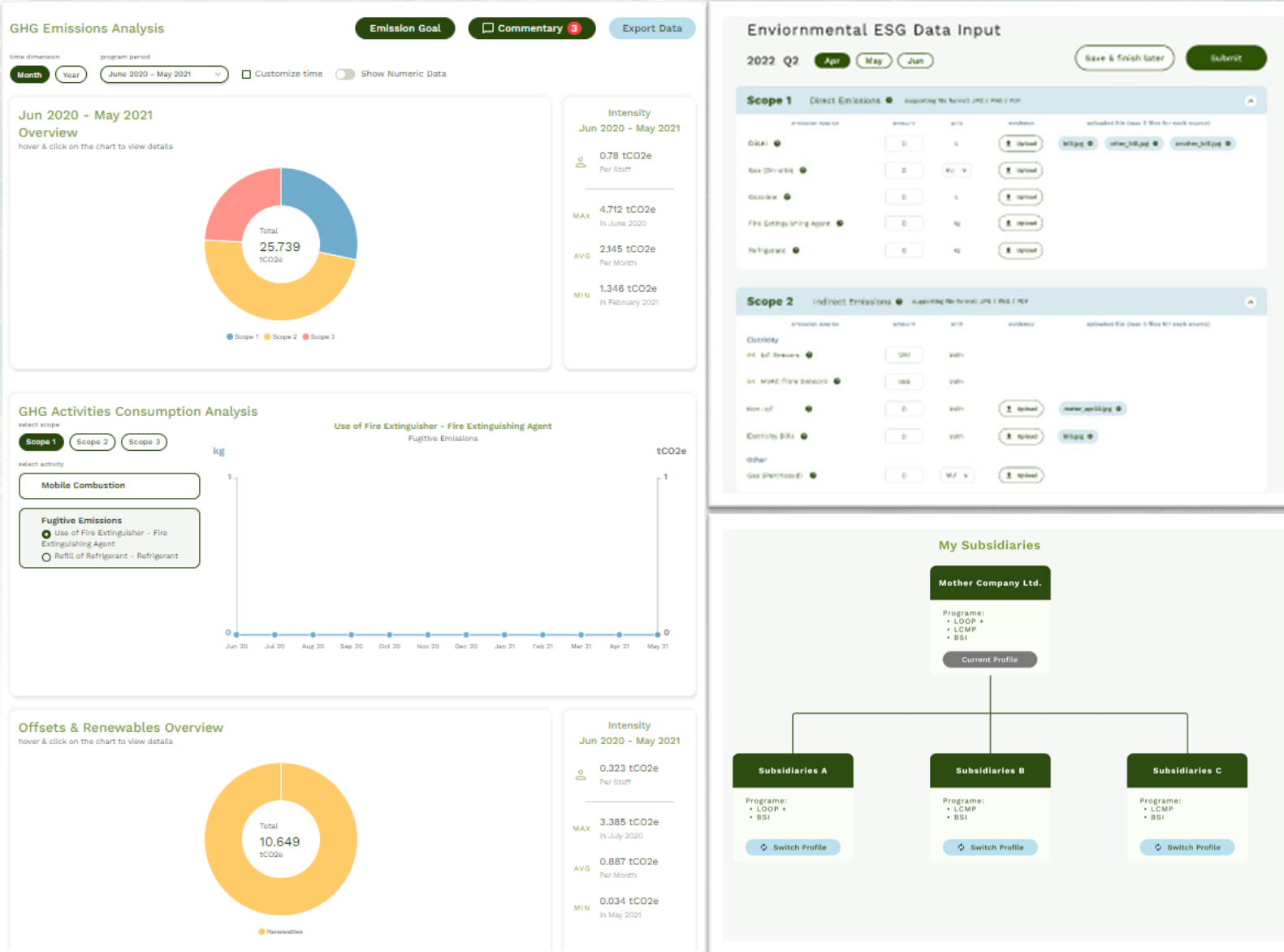
**ESG Audit & Verification**







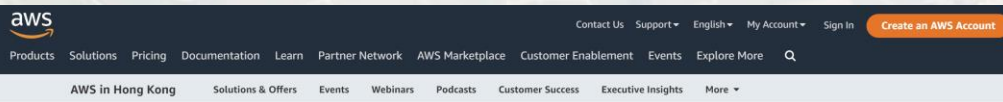
# Achieving Sustainability in a Smarter Way!



- Go Green and Go Tech
- Avoid Green Washing
- SPT (Sustainability Progress Target) Setting and Tracking
- Group-Level and Subsidiaries Performance Monitoring
- Higher data credibility with trackable and immutable data
- Higher efficiency and Lower Error: Minimize manual data collection and human error



# Press Release



## InnoBlock Technology Builds Hong Kong's First ESG Data Platform on AWS

WWF-Hong Kong collaborates with the company to help organizations reduce carbon emissions

繁體中文

**Hong Kong - September 7, 2022** - Amazon Web Services (AWS), an Amazon.com company, today announced that blockchain specialist InnoBlock Technology (InnoBlock) has built **TT Green, Hong Kong's first environmental, social, and governance (ESG) data platform**, on AWS. The platform automatically tracks and reports standardized ESG data across resource consumption, carbon emissions, and human capital management using APIs and sensors deployed throughout an organization's information technology (IT) infrastructure. The platform, which was advised by **leading global conservation organization WWF-Hong Kong**, enhances organizations' ability to collect and report emissions reductions based on the **world-recognized protocols and Low Carbon Operation Program (LOOP) PLUS B.E.S.T. sustainability framework**, helping organizations integrate sustainability into their daily business.

Traditionally, ESG data tracking and recording involved manual processes that lacked data traceability, transparency, and quality to establish immutable ESG credentials. This prevented companies from reaching their sustainability goals in a timely fashion. With the breadth and depth of AWS capabilities, including containers, databases, and machine learning, InnoBlock built TT Green to help organizations accurately understand their environmental impact so they can take action to reduce greenhouse gas emissions, comply with global standards, and obtain credible green certifications and green financing.



## 本地初創 InnoBlock 運用 AWS 科技建構全港首個 ESG 數據平台

2022.09.08 by MediaOutReach



與世界自然基金會香港分會 (WWF) 合作，助企業減少碳排放

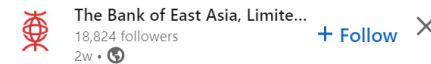
香港 - Media OutReach - 2022 年 9 月 7 日 - Amazon Web Services (AWS) 今天宣布區塊鏈公司 InnoBlock Technology (InnoBlock) 創新鏈科技運用 AWS 技術及平台建構了香港首個 ESG (環境、社會和管治) 數據平台「TT Green」。平台利用部署在企業用戶 IT 基礎設施的應用程式介面 (API) 和感應器，自動追蹤和報告如資源消耗、碳排放及人力資本管理等方面的劃一 ESG 數據。國際環保組織世界自然基金會香港分會 (WWF) 為「TT Green」提供行業指導及建議，讓該平台能協助企業根據國際公認標準及 WWF 低碳營運計劃 (LOOP) PLUS B.E.S.T. 可持續發展框架收集及報告減排資訊，幫助企業將節能減排納入日常商業運作中。



減少碳排 | WWF加持 InnoBlock運用AWS科技 建「TT Green」ESG數據平台

為應對全球暖化問題，愈來愈多企業建立自己的「碳帳簿」來追蹤自己公司甚至上下游供應鏈夥伴的碳排放。然而在追蹤、搜集和記錄ESG數據依賴人手處理，欠缺透明度、透明度和質量，令企業難以建立可靠的ESG憑證，拖慢達成可持續發展目標的速度。

Amazon Web Services(AWS)上宣布區塊鏈初創InnoBlock Technology(InnoBlock)，透過運用AWS技術及平台建構香港首個ESG數據平台「TT Green」，平台利用部署在企業用戶IT基礎設施的API和感應器，自動追蹤和報告如資源消耗、碳排放及人力資本管理等方面的劃一ESG數據，而國際環保組織世界自然基金會香港分會(WWF)同時為「TT



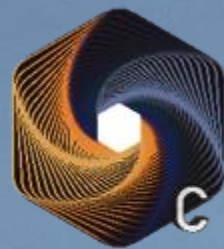
BEA is proud to introduce BEAST, our latest initiative that strives to inspire innovative collaboration between the Bank, local startups, and industry players to demonstrate potential, and industry players to bring additional resources to support a sustainable ecosystem.

Located on the 26th Floor of BEA Tower, BEAST, which stands for 'BEA + Startup', is a physical co-working space. It is a platform that inspires innovative co-creations. To date, 73 ongoing projects co-developed with local startups, industry players and fintech partners in Hong Kong.





## 2. Data Leakage Prevention Solution : SafeGuard Series



SafeGuardChain



InnoBlock





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# Solution : SafeGuardChain®

Cutting-edge technology for enterprise data security:  
All-in-One Solution to **tackle internal data leakage and misuse via external threats**



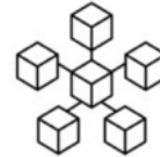
**SafeGuardChain**



Smart Government  
Innovation LAB



Object Detection



Blockchain



Facial Recognition

## Existing DLP Software Features:

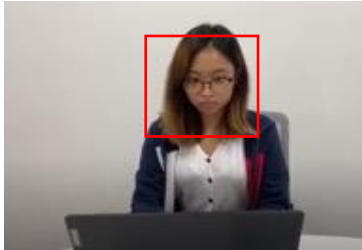
1. Copy-and-Paste Control
2. Multi-Authentication
3. Network Access Control
4. Watermark
5. USB Control
6. Print Logs

# How does it prevent data leakage through external threats?

## Alarm Triggered

### Facial Monitoring

Unauthorized User



### Object Detection

Object detected

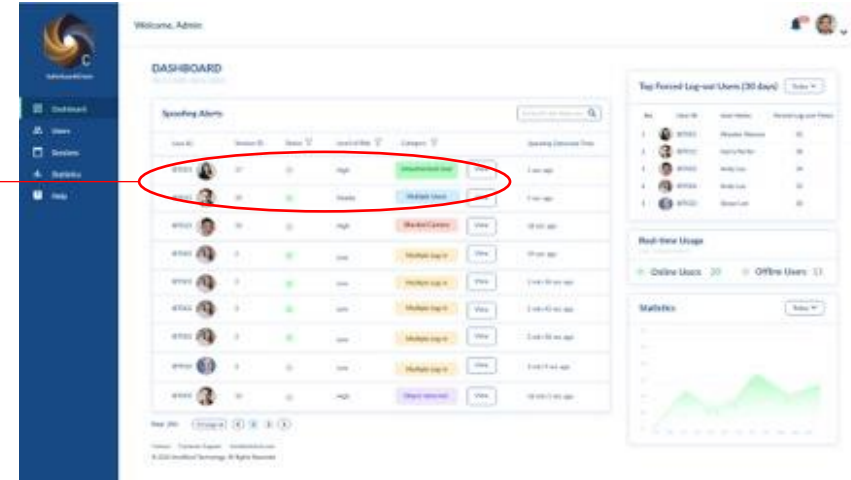


### Watermark

Watermark on-screen



### Spoofing Alert to Administrator



- \* All facial records will be stored on the Blockchain with a unique hash which is **immutable**
- \*\* Computer screen will be captured **simultaneously** when user cannot be authenticated



Screen Capture



Camera-capture (Facial)



Camera-capture (Object)

# Use Case of a Government Department

## Cost Reduction: Lower OPEX



### By using SafeGuardChain®:



Installed on Virtual Desktop (VDI)



Daily average users of the online portal : 500+ users

Daily usage time of the online portal : 900+ hours



- ✓ **Cost Reduction:** On-site resources from 1000 staffs → < 100 staff
- ✓ **Lower Risk of Data Leakage:** Traceable and No reported case in Q1-2 2022



### 3. Supply Chain Traceability: TT Chain



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# TT Chain: Track and Trace

## Raw-materials Producers/ Farms/ Suppliers



By Lab/DNA Test,  
RFID, GS1,etc.



## Supply Chain Participants



Manufacturing



Inspection

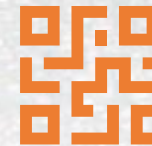


Logistics



Retails

Traceable with QR code



## Products



Data on Blockchain



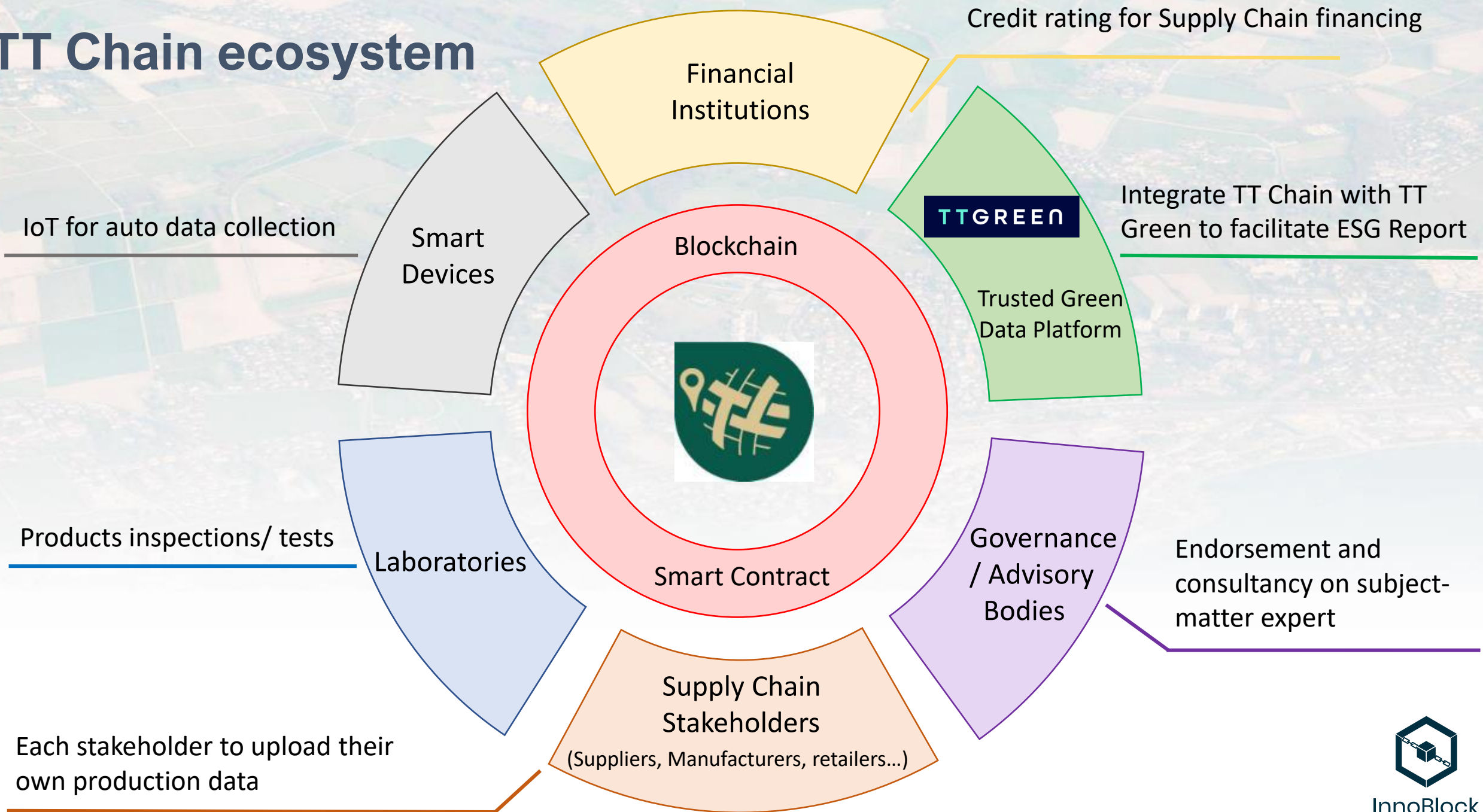
provide an **end-to-end secure and trustworthy traceability platform**



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# TT Chain ecosystem



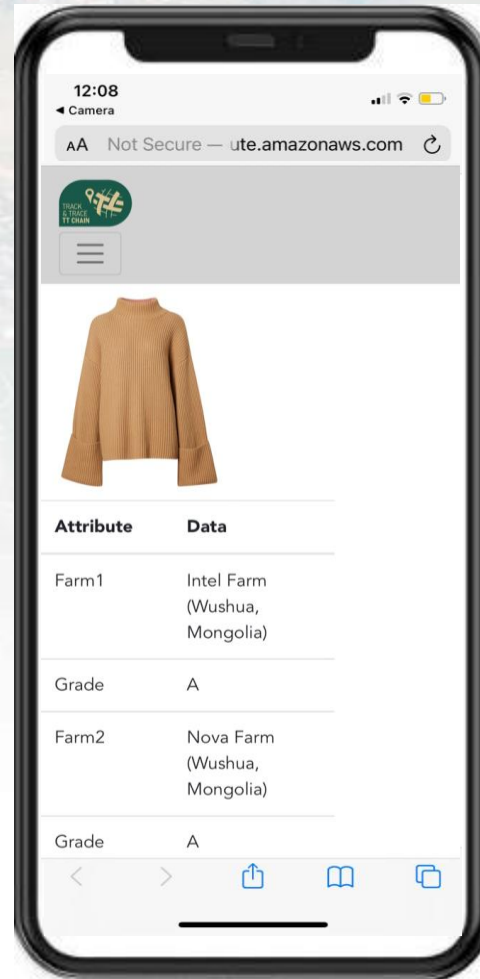


# How does TT Chain works?

Scan Me!!



## Consumer's view:



## Business User's view:

Product info Product History

Product ID: scarf

Yarn [More Info](#)

Raw Material [More Info](#)

Garment Manufacturer [More Info](#)

Blockchain Hash can be traced on the blockchain explorer, every data is immutable

Registration Certificate

UPW Limited

has successfully registered with "The Good Cashmere Standard"™. Aid by Trade Foundation (ATF) therefore awards the permission to sell cashmere yarn, fabric or ready garment produced according to "The Good Cashmere Standard"™.

This certificate is valid until: 6/30/2021

Joe Chen Managing Director ATF

Joe Chen Managing Director ATF

Farm Information:

ID	NAME	LOCATION	YEARS OF ESTABLISHMENT	NUMBER OF EMPLOYEES	NUMBER OF GOATS	SIZE	DESCRIPTION
F-284501	ABC Farm	Wushua, Mongolia	1987	25	1000-1500	300-500 acres	Farm Information: ABC Farm, Wushua, Mongolia, 1987, 25 employees, 1000-1500 goats, 300-500 acres. Description: Farm Information: ABC Farm, Wushua, Mongolia, 1987, 25 employees, 1000-1500 goats, 300-500 acres. Description: Farm Information: ABC Farm, Wushua, Mongolia, 1987, 25 employees, 1000-1500 goats, 300-500 acres.

CERTIFICATIONS

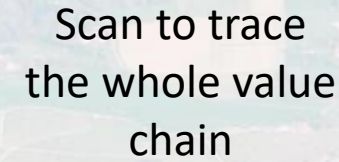
ID	Date	Weight	Quality
2020	3/11/2018	270KG	A+
8447	3/11/2018	400KG	A+
9670	3/11/2017	420KG	A+
1246	3/11/2016	380KG	A+

Lot Information: L-98765

NFD	ID	Birth Date	Birth Place	Gender	Species	DNA
202020	2020	3/11/2017	Mongolia	Female	A	

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[illegible]

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# Use Case – Aquaponics: From Food Waste to Fish Feed

Under **AFCD Accredited Fish Farm Scheme**



Food Waste  
Collection



Processing



Fish Feed



Fish Feeding



Traceable Empurau

All data are being stored on the blockchain



## ✓ A Proof of Sustainability on Aquaponics

- To trace the authenticity and source of materials through the whole supply chain
- To proof sustainability
- To support ESG report



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## 4. Online Facilities Booking System



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# Online Facilities Booking System

## FOR USERS

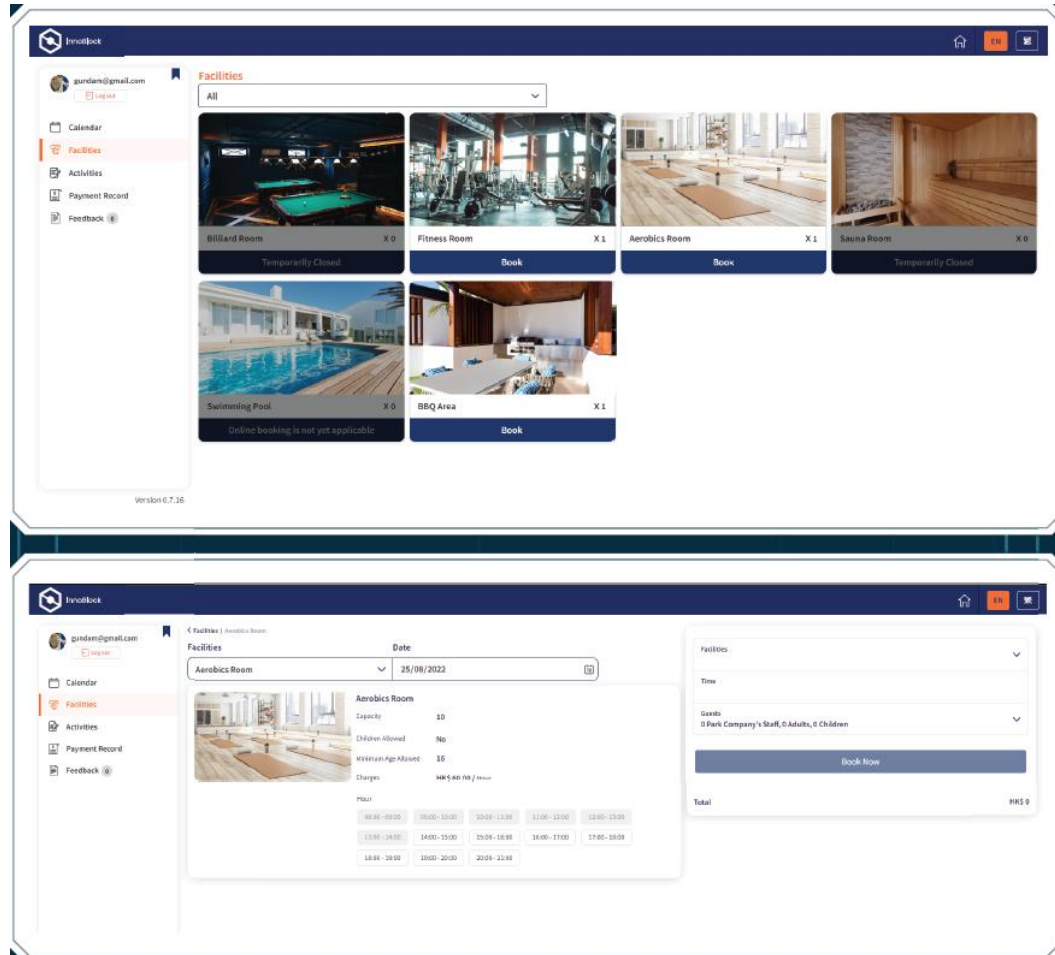
- 1** Quick access to facilities status and booking schedule  
即時設施預約情況預覽
- 2** Contactless booking anytime  
即時線上設施預訂
- 3** Easy online payment  
線上付款
- 4** Full booking history  
預訂記錄

## FOR ADMIN

- 1** Member management  
會員管理
- 2** Facilities and Course Management  
設施和興趣班管理
- 3** Reporting (e.g. Booking report and financial report)  
系統報告  
(例如：預訂記錄和財務報表)
- 4** Data Analysis  
數據分析



# Zone Management



## Zoning

- Available on different Zones and Facilities

*Clubhouse/ MICE/ Co-Living/ Co-working*

- ✓ Facilities & Interest Class
- ✓ Day/Weekly/Monthly Pass
- ✓ Meeting Rooms and Equipment

- Customizable Settings

- Time slot
- Capacity
- Product Inventory
- Approval settings
- Black out zone/dates
- Special Promotions
- Email notifications
- Feedback forms
- Access Control



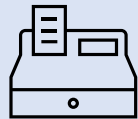


# Cashless Payment and Reporting

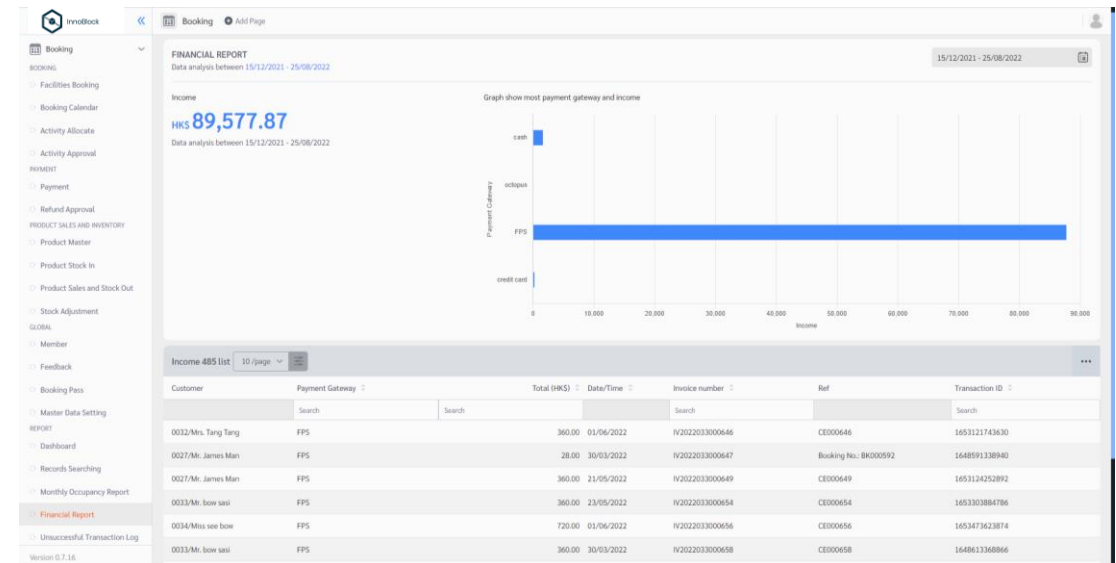
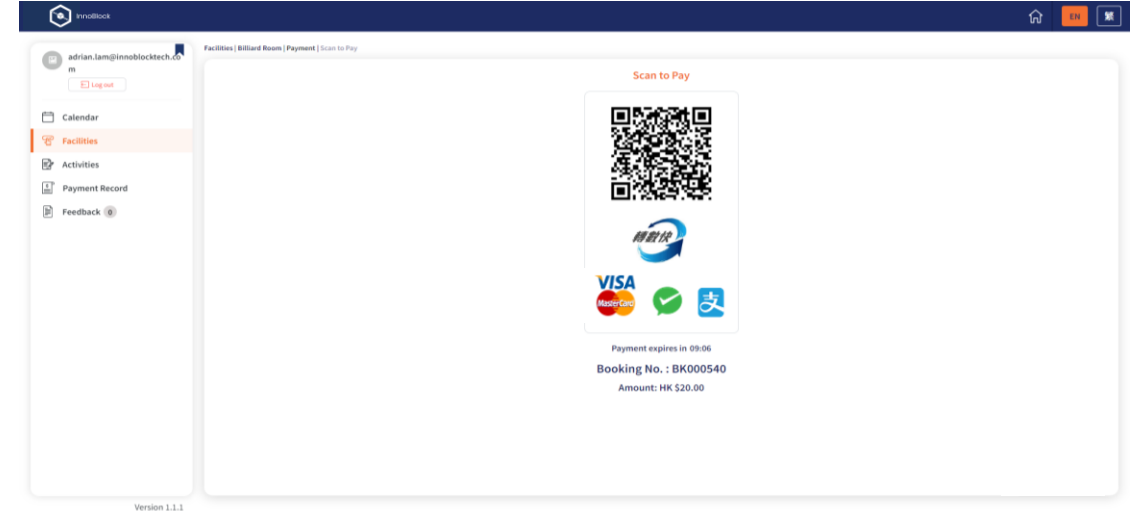
## Cashless Payment



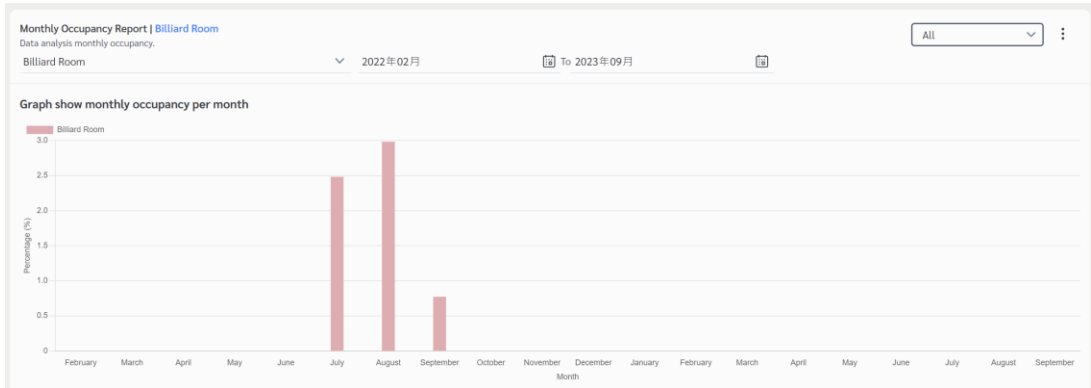
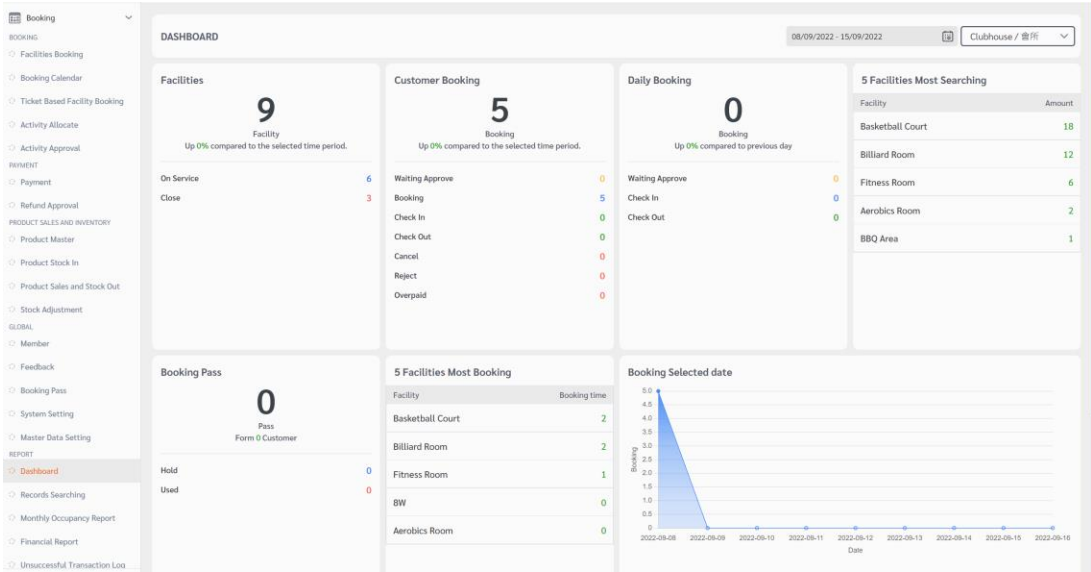
- Convenient cashless payment
- Open API to support various payment method
- Detailed transaction record



- Real-time client payment record
- Income payment statistic
- Reports exporting



# Dashboard and Analysis



## Dashboard & Analysis



- Dashboard Overview
- Transaction Log
- Audit Trail
- Income Report
- Occupancy Report



# Members & VIP Management



## VIP Management

- **CRM**
  - Member Tiers Set Up
  - Set up rights for VIP members
    - e.g. Booking Priorities
    - Booking Discount
    - Access to VIP events
- **Admin Invitation**
  - Reserve for VIPs
  - Payment settle by admin

### MEMBER GLOBAL

Extend your Member database and Follow up activities with Member.

All Member 43 list

10 /page



Member No. ▾

English Name ▾

Chinese Name ▾

Search

Search

Search

00002



Mr. Chang Xing

场 情形

00003

Miss Lalisa Manoban

场 情形

00004



Mr. Chill Chasri

銀 字 嘛

### Booking Pass

Manage booking pass for sale.

Activate Pass (5)

Deactivate Passed (5)

Activate Booking Pass 5 list

10 /page



Booking Pass Name ▾

Description ▾

Settlement ▾

Unit Price (HKS) ▾

Search

Search

Search

Search

test

123

Member

500.00

3 Day Pass

3 Day Pass Check

Member

100.00

4 Day Pass

4 Day Pass

Member

1,000.00

Pass Name

Description1

Member

1,000.00

VIP Pass

VIP Pass

Company

100.00

Show

10 /page





# Case Reference – HKSTP Facilities Booking System

HKSTP

adrian.lam@innoblocktech.com

Log out

Calendar

Facilities

Activities

Payment Record

Feedback


Facilities | BBQ Area

Facilities

BBQ Area

Date

30/11/2022



BBQ Area

Capacity: 12

Children Allowed: Yes

Minimum Age Allowed: 0

Charges: HK\$ 600.00 / Half Day, HK\$ 1,200.00 / Full Day

Half Day: 11:00 - 15:00, 17:00 - 21:00

Full Day: Select Time

Facilities

Time

Guests: 0 Park Company's Staff, 0 Adults, 0 Children

Book Now

Total: HK\$ 0

HKSTP

adrian.lam@innoblocktech.com

Log out

Calendar

Facilities


Activities

Payment Record

Feedback

My Profile

OnePass@HKSTP



Email Address: adrian.lam@innoblocktech.com

OnePass@HKSTP ID: ChinFungLam

SPARK Membership: Yes

InnoCeller: No

Recommend File: .jpg or .png scale 1:1 / Minimum 1 MB to Maximum 5 MB.

Personal Details

Contact

Mr.

First name English: Chin Fung

Last name English: Lam

First name Chinese: 林

Last name Chinese: 林

Contact no.: 9285585

Smart Card ID: 113788

Company Name: INNOBLOCK TECHNOLOGY LIMITED

Gender: Male

HKSTP

adrian.lam@innoblocktech.com

Log out

Calendar

Facilities


Activities

Payment Record

Feedback


Facilities

All




Billiard Room X 1

Book




Fitness Room X 0

Online booking is not yet applicable




Aerobics Room X 1

Book



Swimming Pool X 0

Online booking is not yet applicable



BBQ Area X 1

Book

**Thank You!**

[sales@innoblocktech.com](mailto:sales@innoblocktech.com)