

## **Company Introduction**

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 technology and AI, making them well-versed with its different applications and methods of optimization.









## About InnoBlock

# Runner-up in the HKMA's Global Regtech Challenge

**Problem Statement 3: Customer Data Privacy** 





## Agenda

- 1. TT Chain (Supply Chain Management & ESG Reporting)
- 2. Cyber Security: SafeGuard Series







### **TT Chain**

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



#### 1. Supply Chain

TT Chain Supply Chain Builds an ecosystem of
producers, farms, suppliers,
manufacturers, logistic partners,
retailers and others creating a
smarter and safer traceability
platform on production data.



#### **2. ESG**

#### TT Chain ESG:

In the areas of environmental protection, social equity, and governance efficiency. Immutable data on TT Chain facilitates third party certification on ESG rating and reporting.



## 3. Green/ Supply Chain Finance

TT Chain in Finance –
Driving transparency and improving efficiency in the reporting processes of sustainable finance products, and to support management on corporate actions on ESG.

Adoption on different Use Case

Module 1: TT Chain Supply Chain

Module 2: TT Chain Supply Chain + ESG Reporting

Module 3: TT Chain Supply Chain + ESG Reporting + Green/Supply Chain Finance



## **TT Chain: Track and Trace**

#### **Raw-materials Producers/ Farms/ Suppliers**









#### **Supply Chain Participants**



::







#### **Products**



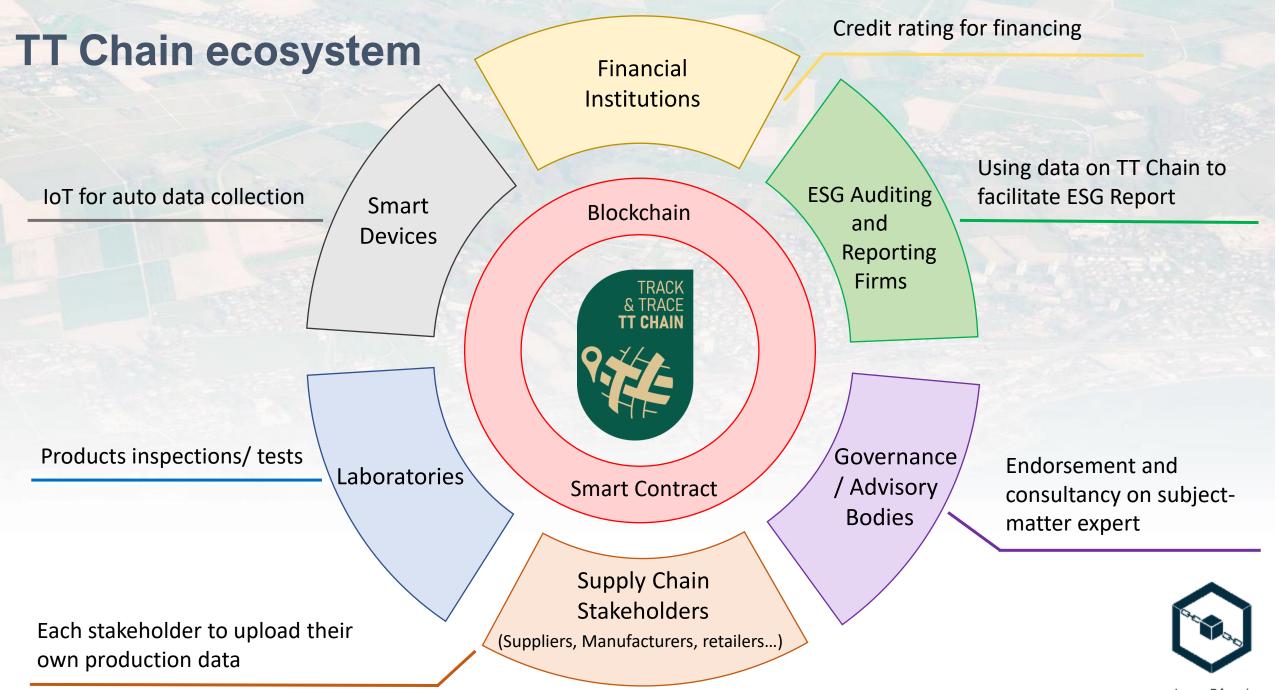
Traceable with QR code











### Use Case 1 - "Blockchain Beef"

#### What is "Blockchain Beef" Pilot about?

TT Chain have all the data from cattle in the ranch in Canada all the way to consumers' hand in Hong Kong.

RFID on ear tags record all feeding and treatment details from birth date

A batch of 40 cattle being harvested on 19 April and exported on 1 May

## Certifications uploaded:

- VBP+
- Canadian
   Angus
   (hormone-free)

Arrived HK on 6 May with all logistic details recorded Processed into patties and meat cuts with photo and info proofs













Harvest & Export

Attributes Verification

Logistic on Arrival





## Use Case 1 - "Blockchain Beef"





建定的contraca是透過,大学會發行於皮肤資料Bacontt,建於條則,又從是原來製造型發展等。| Angender -

即时他加可也也。」而Becom 正是使用点皮管技能的管理使用。 · 表,甚至简简朴效,搭帖,出入口迹象,以至机用使分别等。 · 双耳和助端正使用,具像像大灌力。 🍣 · 把握紧紧架才所放。在跨越接到的非共通,只定面有模型人数。加工,也然有资料、全部均实用T Own设施、基础人口贷款

将解析「把職」行為、所適區推議、是指一種主中心化均分數 別認區推議數等的文有同關係?InnoBlock能產助行官高新 或許有人會資訊、這種語品質認識有何分別?新傳及市場 的数据等,身份部可谓这多的物性资格;knobbock是等高区域,又Kevin版出,每中点技能针数据不可提出的使数,公司以第二进程更为现Rowers(计划),「市场上部们实验的资料,都是由生 Androwillia,「七条一根記述,除作用日本教徒的目前,特殊,三大理立外的建模TT Chan高度接干点,加度保全口午内亦是,是自己行徒的,不允克人或者指挥指挥的争议,然而TT Chan 是的这人在外的建筑的影响的特殊也是影響,这些的原理。 建加入来源达数据的,也到这,FTT和 [Text and Trace] 这一作品第二第三方面是中心,供用进作的都是第二指入来源达数据。 當記述報應是用重的成上所有影影的共識同意,才可容於更利數:演的意思,我們靠加拿大賣質技術公司TruedOX合作,平台權:一次第改更會問題整申數據,今平正之述無法操控,」具者, 建度。此外,新考数据内对加上一重数据的加密需要,继续和:超超速2000减衰加多大原格干导数据,由加加聚物配理;加:QR code原产的高格理模式,所有人类优级效,因此所其中内 拉、中国人逐数建筑工程池、建仓星一中央结功数建的规矩。 出世日期知地数:性划、重星、刺客模式、有名用距散式产生、品質有能到保證。RoversaX展音用TF Chancia病至各株在



為配合资源電影車直升化路線圖。因对早級官司司貨12億港北、計劃在2022年前與全港公共汽電站建空1,700億、西基石 LIC接接管用于中国的中心等,如今用市区及的区域设计Appell室制度中型以,当中部建设设建等负值型工程等合作,约19位于 學文化設備與建共的個文電話、又於建建口班/古國斯達·班里賴以及大綱山梅宴的報道地區、安裝120個文電話。此外,展別及 E尼地域兩個批判多個伴奪場套裝具153個兒電站,由此更高計能力負別管理系統。配偶均均分別,勤勉便更及計算安全核式。 为证的证券上提供公平、安全公司商约为证提验、各



Scan to trace the whole value chain









## **Use Case 2 – Aquaponics: From Food Waste to Fish Feed**











Food Waste Collection

**Processing** 

**Fish Feed** 

**Fish Feeding** 

Traceable Empurau

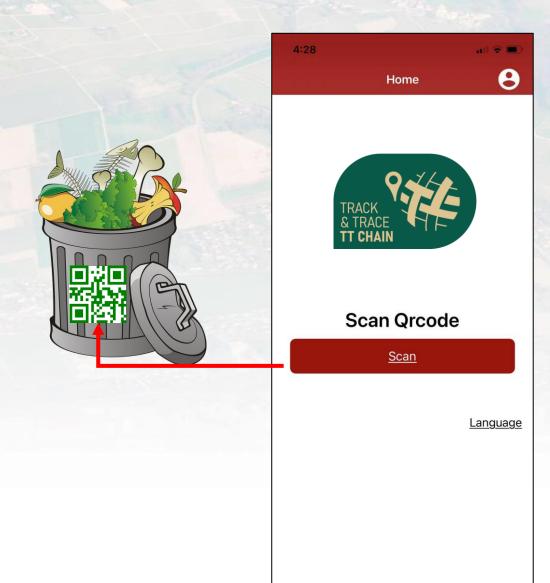
All data are being stored on the blockchain

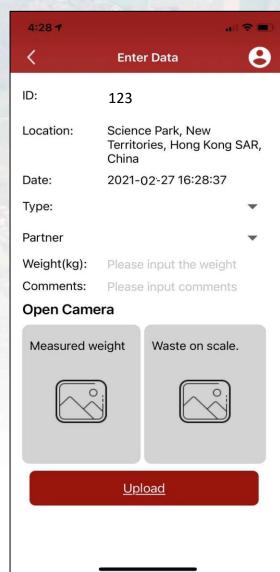




- ✓ A Proof of Sustainability on Aquaponics
  - To trace the authenticity and source of materials through the whole supply chain
  - To proof sustainability
  - To support ESG report

## Use Case 2 - App for driver data entry





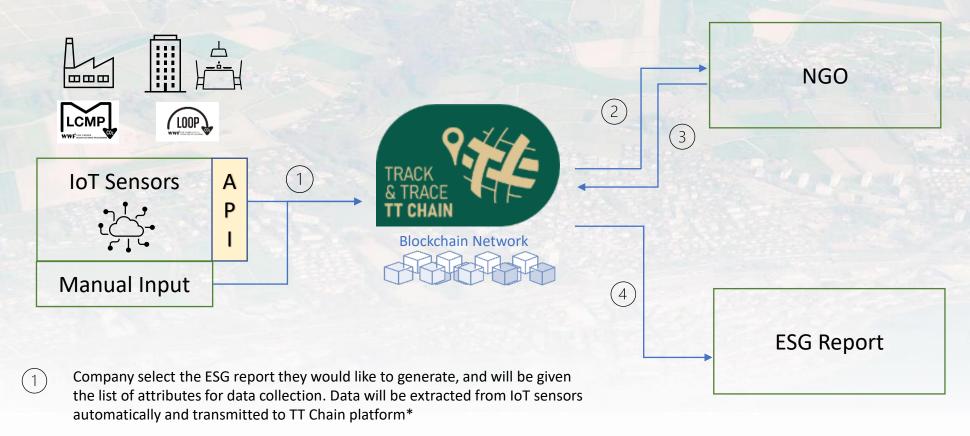
Innoblock has designed a user-friendly app for truck driver to store data.

Most of the info. will be auto-generated through the QR code, for example ID, location, date.

The rest will be selected by the driver in a drop-down list to minimise human error



#### How does company gets world-recognised NGO Report?



- TT Chain will send the according data to NGO for customization on factor calculation base on its business
- 3 NGO will send the formula to TT Chain for ESG reporting
- TT Chain will generate ESG report to the company



<sup>\*</sup>IoT sensors will be supported by TT Chain's partners

### **ESG** report generated by TT Chain



#### Home

▼ SMART CHAIN ENTERPRISES LIMITED

- ▼ Meadow Apparel Ltd
- ▼ Scope 1: Direct GHG emission
- ▶ Activity 活动: Stationary Comb..
- ▶ Activity 活动: Company Owne..
- ▼ Scope 2: InDirect GHG emission
- ▶ Activity 活动: Electricity Grid
- ▶ Activity 活动: Water Consumpt...

Scope 3: Other GHG emission

IOT Dashboard

Attendance

Production

Report

#### 2. GREENHOUSE GAS EMISSIONS

#### 2.1 Key performance indicators

	Base Year	Previous Year	% Change
Total emissions ( Unit : tonne CO2 )	247.55	0	-
Emissions / tonne of material production Unit : (tonne CO2 /t)	0	0	-
Emissions / sales ( Unit: g CO2/RMB )			

Tonnes CO2-equivalent

#### 2.2 Emissions Inventory Summary in 2020

Type of emission 排放頻型

Scope 1 範圍 1	
Gasoline	0.0000
Refrigerant R410a	0.0000
Septic Tank	0.0000
CO2 Fire Extinguisher	0.0000
Diesel	0.0000
LPG	0.0000
Wood	0.0000
Total Scope 1 Emissions [tonne CO2]	0.0000
Scope 2 範圍 2	
Electricity Bangladesh Grid	90.9284
Water Consumption	0.0000
Total Scope 2 Emissions [tonne CO2]	90.9284
Scope 3 範圍 3	
Total Scope 3 Emissions [tonne CO2]	0





## How does it prevent data leakage through external threats?

User under constant surveillance by Facial Monitoring and Targeted Object Detection (i.e. live camera)







Multi computers log-in





Forced Log Out /
Lock 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



InnoBlock

