

Next Generation Cold Food Import Safety Management (CFISM) Platform

Cross-Border “*RegTech*” Enhancing Import Efficiency & Food Safety by Blockchain & IoT Technologies

14 Dec 2021 (Tech Forum)



Challenges & Objectives

Challenges

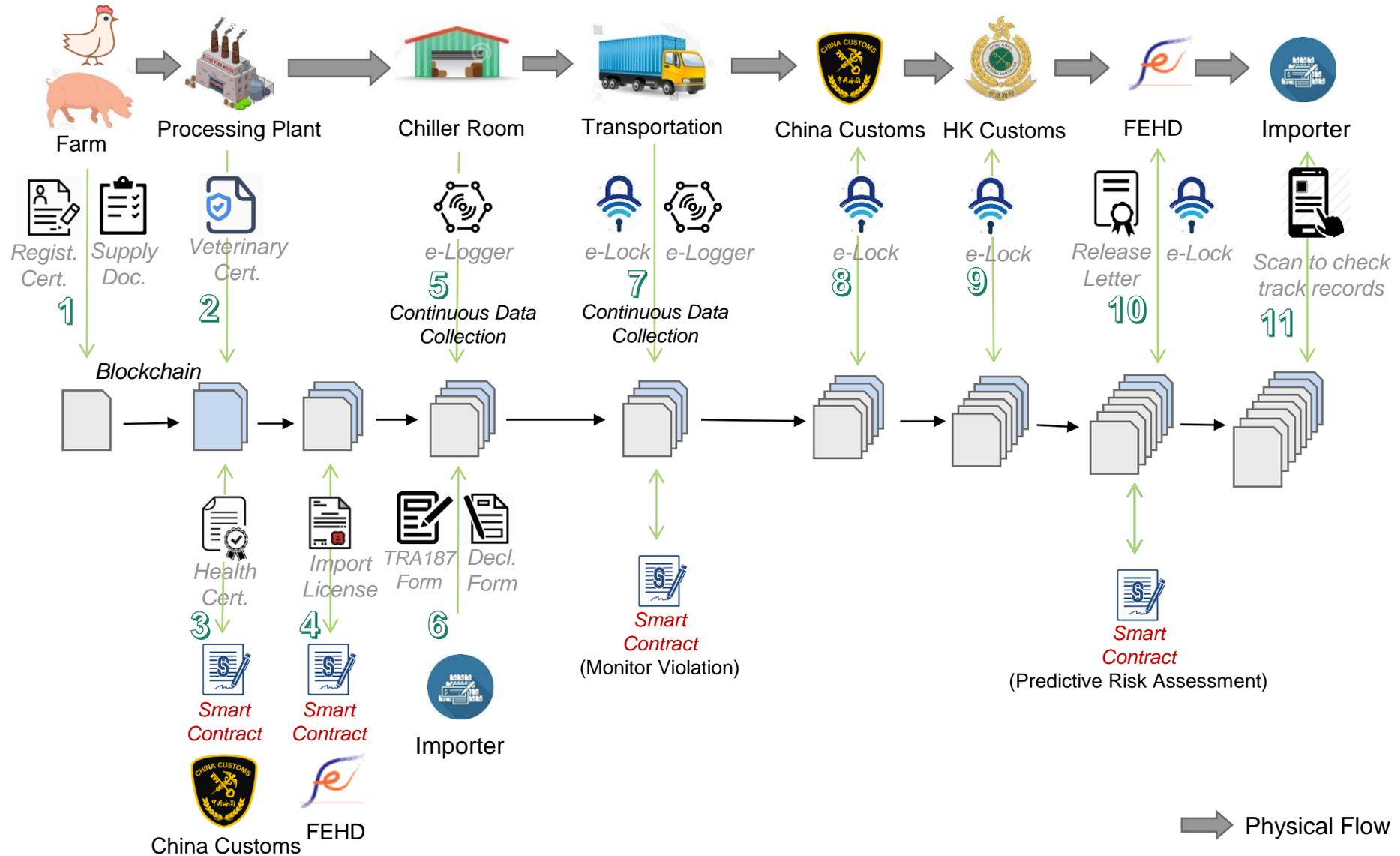
- Trust (Cross-Border Stakeholders)
- Efficiency (Import Process)
- Cold Food Safety (Continuous Tracking)
- Traceability (Endorsed, Immutable)

Objectives

- Improve efficiency and enhance food safety
 - Digitalization
 - Continuous compliance tracking
 - Shorten inspection time & reduce inspection rate
- Traceability with Trust
 - Immutable records (up-stream)



Cold Food Import Safety Management for FEHD



Cold Food Import Safety Management for FEHD

1. Digitalization of Export/Import Documents



中华人民共和国出入境检验检疫
ENTRY-EXIT INSPECTION AND QUARANTINE
OF THE PEOPLE'S REPUBLIC OF CHINA

兽医(卫生)证书 编号 No. 2100000184322001
VETERINARY (HEALTH) CERTIFICATE

发货人名称及地址
Name and Address of Consignor 深圳恒昌食品贸易有限公司 SHENZHEN CHANG QI SHENG TRADE CO., LTD.

收货人名称及地址
Name and Address of Consignee 香港恒昌食品(香港)有限公司 HONG SHUN HING POULTRY (HK) CO., LIMITED

品名
Description of Goods 冻鲜鸡(冷的整只鸡) FRESH CHILLED CHICKEN

报检重量
Weight Declared 112000 千克 KGS Place of Origin 惠州 HUIZHOU Mark & No.

包装种类及数量
Number and Type of Packages 4000 塑料箱 PLASTIC CASES

集装箱号
Container No. ***

船封号
Seal No. 242164

加工厂名称、地址及编号(如果适用)
Name, Address and approval No. of the approved Establishment (if applicable) 惠州恒昌食品有限公司 HUIZHOU SHUNNING FOOD CO., LTD (4400903115)

目的地
Place of Dispatch 惠州 HUIZHOU Country and Place of Destination, HONG KONG (CHINA)

运输工具
Means of Conveyance 汽车

发货日期
Date of Dispatch 10 Jun, 2019

本署兽医官证明
I, the undersigned official veterinarian, certify that:
1. 本批禽类产品符合《中国出境货物(小动物)检验检疫卫生要求》
This consignment of poultry product complies with all requirement as stipulated in the "Inspection, Quarantine and Health Requirement of Chilled/Frozen Poultry Exported from the Mainland of PRC to Hong Kong SAR".
2. 本批禽类产品原料未使用内地和香港特区政府禁止使用的药物和动物促生长剂, 对允许使用的药物, 亦按照内地和香港特区政府有关规定, 并严格按照规定的停药期停药。The farm from which the poultry product was originated did not use any drugs, including beta-agonists, prohibited in the Mainland China and Hong Kong while the use of permitted veterinary drugs complies with the regulations in the Mainland China and Hong Kong, including the withdrawal period.
3. 用以生产本批禽类产品的禽类活禽, 自其孵化以来或经过至少21天内, 被饲养、屠宰和加工于禽流感疫区外, 且中华人民共和国海关总署批准的饲养及屠宰加工企业。
This consignment of poultry products comes from poultry that have been kept, slaughtered and processed in General Administration of Customs, PRC approved establishments, which are situated in avian Influenza free areas since the poultry were hatched or for at least the past 21 days.
4. 动物检验检疫合格, 本批产品适合人类食用。



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      <Date of Dispatch >10 Jun, 2019</Date of Dispatch >
    </Transportation >
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  <Statement >
    <Text >I, the undersigned official veterinarian, certify that:
    1. 本批禽类产品符合《中国出境货物(小动物)检验检疫卫生要求》
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    2. 本批禽类产品原料未使用内地和香港特区政府禁止使用的药物和动物促生长剂, 对允许使用的药物, 亦按照内地和香港特区政府有关规定, 并严格按照规定的停药期停药。The farm from which the poultry product was originated did not use any drugs, including beta-agonists, prohibited in the Mainland China and Hong Kong while the use of permitted veterinary drugs complies with the regulations in the Mainland China and Hong Kong, including the withdrawal period.
    3. 用以生产本批禽类产品的禽类活禽, 自其孵化以来或经过至少21天内, 被饲养、屠宰和加工于禽流感疫区外, 且中华人民共和国海关总署批准的饲养及屠宰加工企业。
    This consignment of poultry products comes from poultry that have been kept, slaughtered and processed in General Administration of Customs, PRC approved establishments, which are situated in avian Influenza free areas since the poultry were hatched or for at least the past 21 days.
    4. 动物检验检疫合格, 本批产品适合人类食用。</Text >
  </Statement >
  <Footer >
    <Signature ></Signature >
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</HealthCertificate >
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ASTRI

Food Type

Application Details

Applicant Details

Import Licence Details

Place of Product Origin

Estimated Date of Arrival

Sanitary Statement

Health Certificate No.

Product/Plant Material

Package Type

Net Weight

Unit

CU F. Value (in HKD)

Inspector's Declaration



食物環境衛生署
Food and Environmental Hygiene Department

食物安全中心
Centre for Food Safety

牌照號碼
Licence Number: eIL-21-000006

發出日期
Date of Issue: 2021-01-14

有效期
Valid Till:

香港特別行政區政府
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION

《進口條例》(第60章)
Import and Export Ordinance (Cap. 60)

冰鮮、冰貯、肉類或禽類進口牌照
IMPORT LICENCE FOR FROZEN/CHILLED MEAT OR POULTRY

進口商名稱/Name of Importer: TONG SHUN HING POULTRY (HK) CO., LIMITED

進口商地址/Address: SHENZHEN CHANG QI SHENG TRADE CO., LTD

進口商註冊號碼/Trade Registration No.: TR-11-002344

進口商營業執照號碼/Business Registration No.: 26680003

進口商地址/Address: Unit 1201, 12/F, 'Xin' an building, 3009 Bennis South Road, Shatin

新界粉嶺安樂村樂農街8號

相關進口商註冊號碼/Relevant Import Permission No.: 2100000184322001

牌照日期/Date of Issue: 2021-01-15

有效期/Valid Till:

貨物來源地/Place of Food Origin: China

預計抵達日期/Estimated Date of Arrival: 2021-01-15

進口地點/Place of Export: 香港/Transshipment to HK, Land

貨物詳情/Details of Imported Food

衛生證書號碼/Health Certificate No. / 經文/Description	貨物類別/Food Description	貨物編碼/Food Code	包裝種類及數量/Package Type and No.	淨重/Net Weight	預估值/估計值/Estimated Value (in HKD)
2100000184322001	Chicken, whole (not cut in pieces), Unprocessed (冰鮮)	040100	4000 膠箱/cartons	17040 Kg	443040
總計/Total:					443040

* 貨物在抵達前不得預留 The food will not be inspected before arriving Hong Kong.
* 貨物在抵達前不得預留 The food will be inspected on consumption to Hong Kong.

* 貨物須符合《進口條例》(第60章)的規定。 The food is for use except in the Mainland/another place.
* 貨物須符合《進口條例》(第60章)的規定。 The food is for use except in the Mainland/another place.

本署可隨時向獲准進口商發出進口通知書, 以作監管之用。 The licence together with the Important Notice attached are issued by the Food and Environmental Hygiene Department and are computer-generated. No signature is required.

* Items to be selected for computer print-out

Licence No. XXXXXX, Page 1 of 2

Health Certificate (paper document)

e-Health Certificate (XML Format)

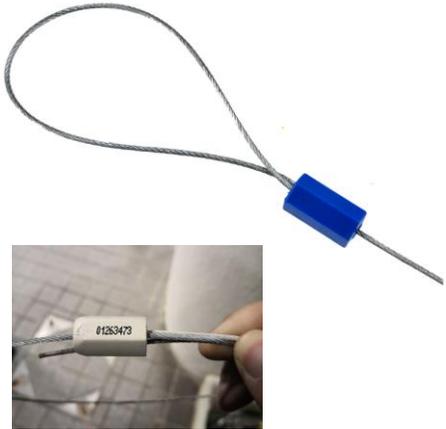
Online applying "Import Licence"

24x7 auto-issue digital "Import Licence"



Importer

Cold Food Import Safety Management for FEHD



Current

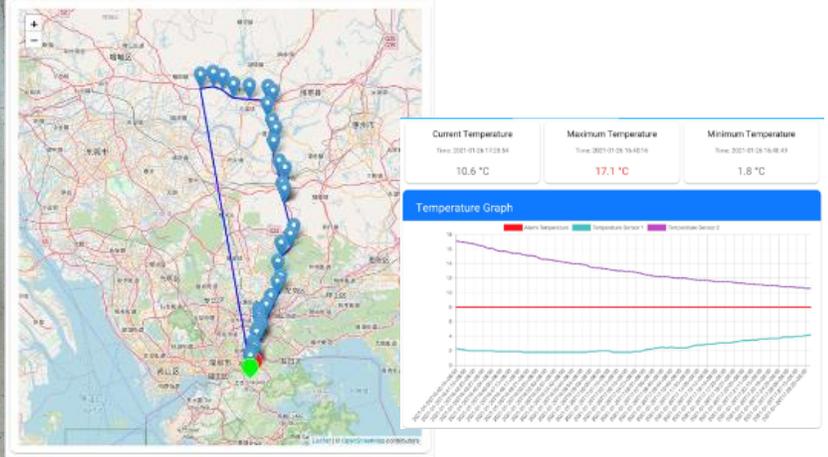


New



Cold Food Import Safety Management for FEHD

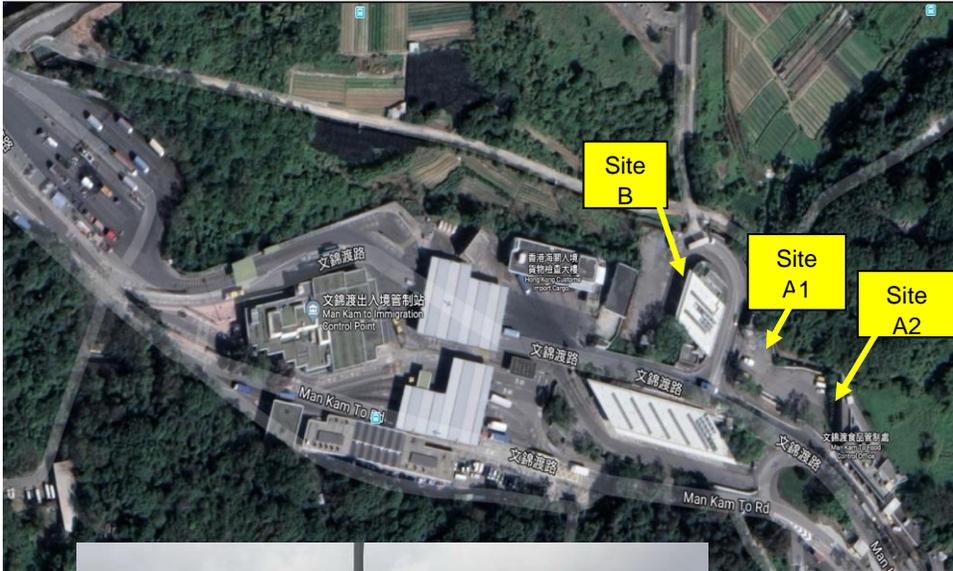
- 3. Continuous compliance tracking by IoT devices
- 4. Real-time send back and store data in Blockchain



Cold Food Import Safety Management for FEHD

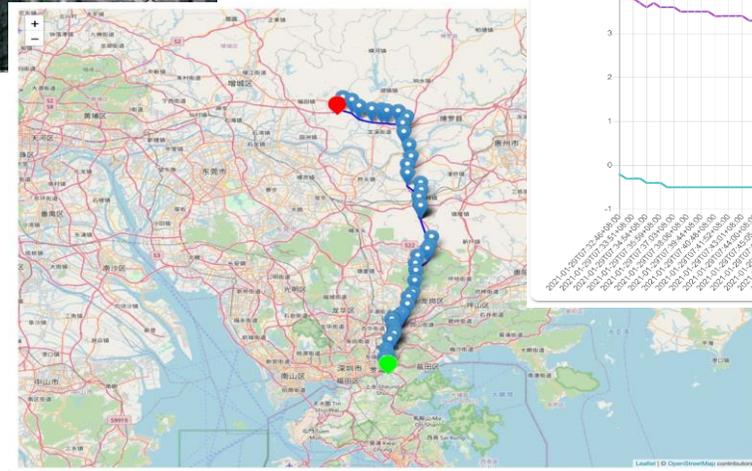
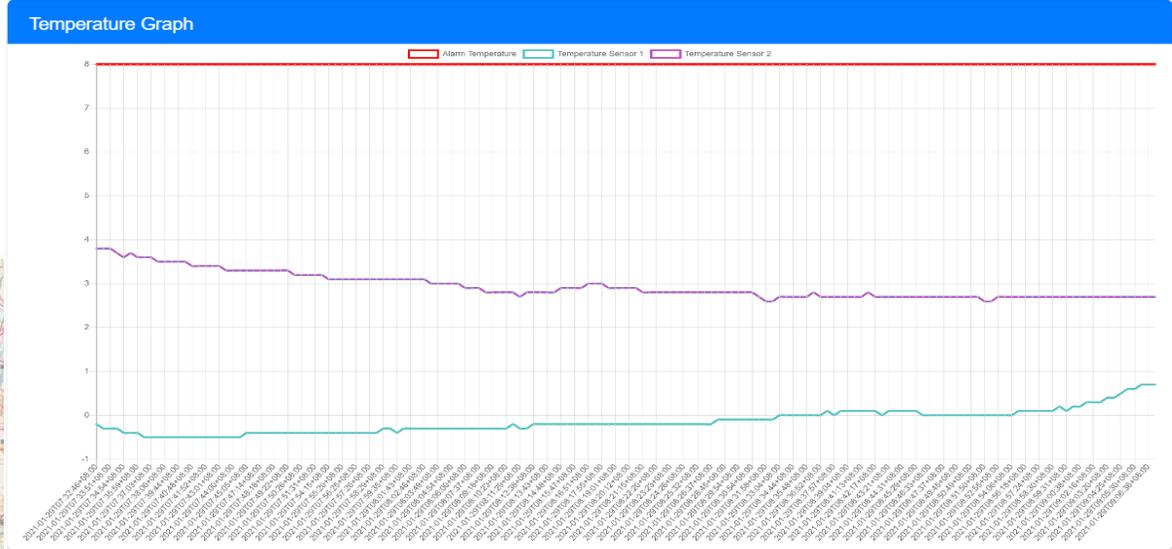
5. Predictive risk assessment before entering checkpoint

6. 100% Inspection => Sample Inspection ONLY



Lock History		
Time	User ID	Operation
2021-01-29 07:34:33	api_Tong Shun Hing	Lock
2021-01-29 09:07:47	api_monitorDaemon	Unlock

<p>Current Temperature</p> <p>Time: 2021-01-29 09:07:11</p> <p>2.7 °C</p>	<p>Maximum Temperature</p> <p>Time: 2021-01-29 07:32:46</p> <p>3.8 °C</p>	<p>Minimum Temperature</p> <p>Time: 2021-01-29 07:36:35</p> <p>-0.5 °C</p>
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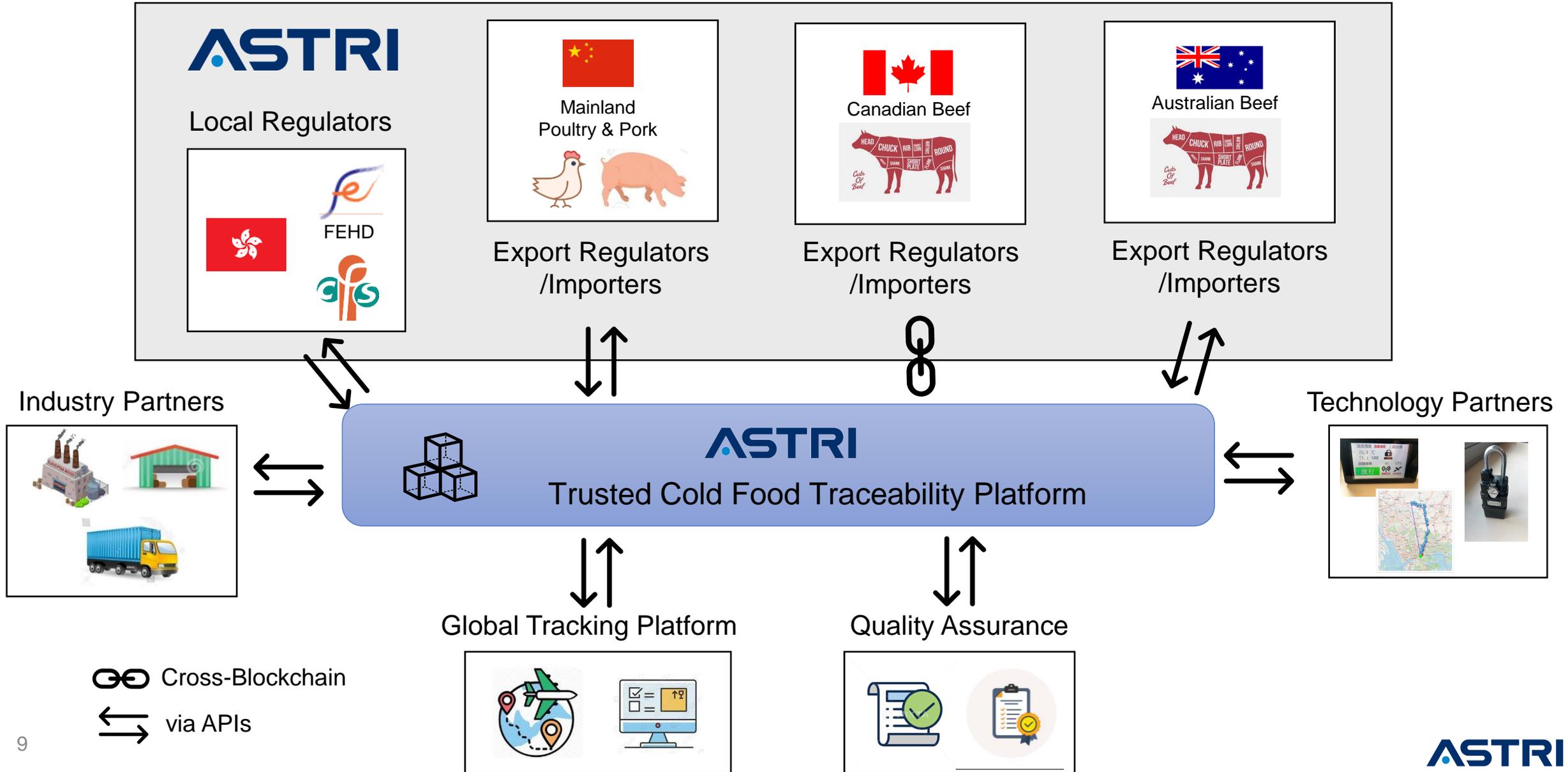
Man Kam To Food Control Office

- 1. Enhance Efficiency & Safety of Cold Food Import Control**
 - 24x7 auto-issue “Import License”
 - Continuous compliance tracking
 - Reduce at least 50% of inspections

- 2. Revolutionize the Cold Food Traceability Eco-system**
 - Initiated the up-stream (Farm => Port), Industry follows (=> Consumer)
 - Smart City Blueprint 2.0 (Smart Government, Smart Living)

- 3. Other Trusted Continuous Compliance Tracking Application**
 - Cold Food Import from other countries, e.g., Canada, Australia, etc.
 - Other Food Chains, e.g., wine, vegetables, egg, etc.
 - Vaccine & Medicine
 - Critical Infrastructures & E&M facilities
 - elevator, fire alarm, air-conditioner, power transformers & water pumps

Collaboration Opportunity



Thank You



www.astri.org | TECH FOR IMPACT

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