

Data Drives Supply Chain Efficiency

for the New Retail Age

Dr. Stephen Lam COO – GS1 Hong Kong

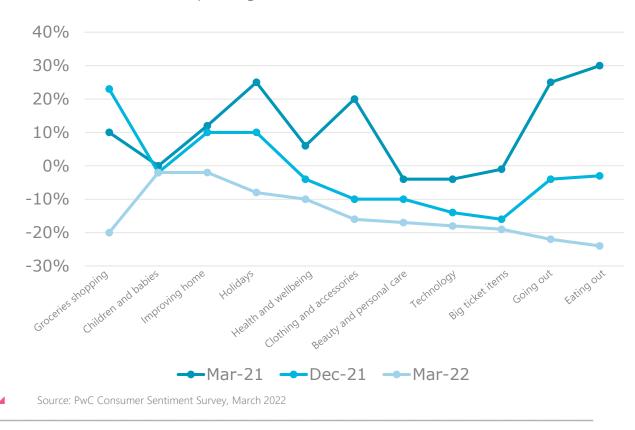






Changes in CONSUMER Spending during the outbreak

Net spending intention in the next 12 months





Changes in CONSUMER Spending during the outbreak

Net intent to change spending over 2 weeks, by country, by category (% change)



- Net intent is calculated by subtracting the percentage of respondents stating they expect to buy more from the percentage of respondents stating they expect to buy less.
- Source: McKinsey Marketing & Sales survey conducted March 21-23, 2020; all data are weighted to match countries' populations of people 18 years and older







SMART RETAIL & SUPPLY CHAIN

amazon style

The Internet of Things IN RETAIL

The opportunity for IoT in retail is huge, and getting started with a quick, high-value project is easier than you think.

Shopper interacts with beacons

as she walks into the store.

Connections to IoT devices using ThingWorx allow retailers to track an extra dimension of

data from her visit.

IoT is more than just the "Things" of connected devices, products or sensors. IoT can connect systems, providing unified visibility, real-time decisions, and deeper insights into customers, competition, product portfolio and performance.

BY THE **NUMBERS**

would visit and do more

shopping in a store with

beacon marketing campaigns

of smartphone users plan to use their device while shopping ACCENTURE

85% of shoppers prefer personalized offers reflecting their past shopping behavior SYNQUERA

use or would like to use digital touchscreens in-store cisco

CARREFOUR'S BEACON-BASED MARKETING

600% new users

400% more time spent in app

+50% conversion rates

URBAN OUTFITTERS IN-STORE PUSH MESSAGING

60-70% engagement rate

More secure.

RFID tags, radio antennae, and infrared cameras track merchandise before it leaves the store.

Rich, interactive experience.

Digital tags and interactive displays allow shoppers to do research and customize products. Completely centralized information.

All IoT devices talk to each other and

the CRM for instant customer feedback and retailer action.

Smartly connected mobile app experience.

Send special offers and greetings, and shoppers can scan products for competitive price checks and instant discounts.

rx:

Quick wins are easy to find.

DON'T DO NOTHING

The technology is here now to create an incredible shopping experience for your customer and build huge value for retailers.

Personalized virtual closets.

Try on new clothes with items

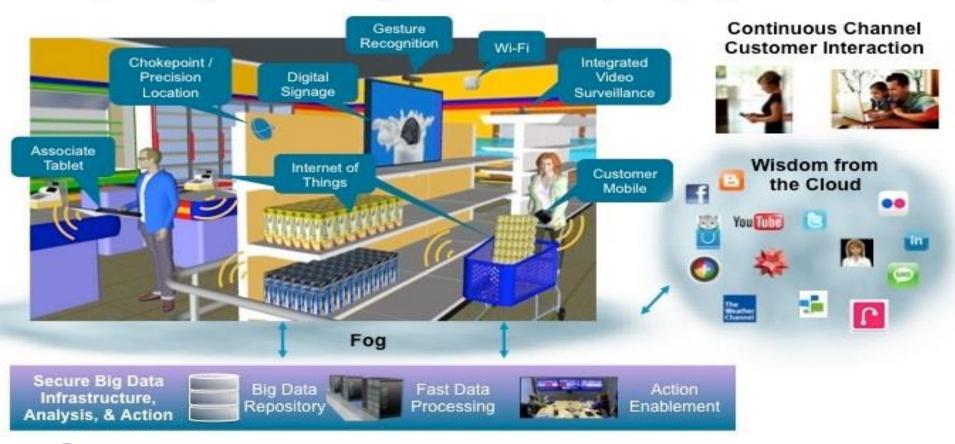
shoppers have at home using

purchase histories.





Capturing Store Insights for Timely Engagement







- Improve retail supply chain decisions with an accurate retail demand forecasting shopping journey
- Reduce working capital with inventory optimization
- Leverage real-time inventory management
 - Drive allocation decisions with retail science at the core
 - Support complex fulfillment operations with warehouse management
 - Improve decision-making and maximize productivity by simulating transportation options



SMART RETAIL SUPPLY CHAIN

Reimagining Retail Commerce in New Normal World

Automated production at Factory



Machines
Provide
constant
feedback on
product
capacity and
information
on shipmentproduction
status.

Autonomous truck to warehouse



Driverless trucks move goods to warehouses, with live transitlocation updates via satellite link.

Automated warehouse



Machines handle all operations, from picking to transporting goods, with continuous information flow on status of goods.

Predictive shipping



Goods are dispatched from warehouses to stores and to online retail supply chains ahead of demand, based on anticipated demand.

Shipment rerouting by customer



Via mobile phone, customer has ability to view order status and input a new delivery destination.

Last-mile delivery



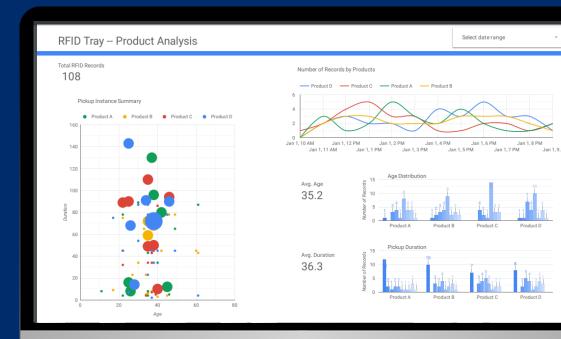
Drones perform lastmile delivery and return pickups.



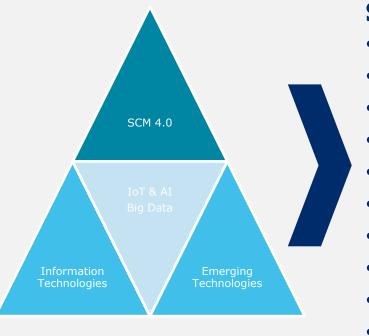


Smart Supply Chain

= Data + AI + IoT







Smart Supply Chain

- Digital
- Agile
- Value Net
- Data Driven
- Real Time
- Control Tower
- Responsive
- Sensing
- Intelligent
- Social

New Paradigm Industry 4.0

New Business Context IoT & AI

New Corporate Culture Collective Leadership

New SC Management System Skills, Competences and Processes SCM 4.0



Fuel Better CONSUMER **EXPEREINCE** & **DRIVE BUSINESS** with Valuable Insights

Efficient inventory management

Effective

activities

consumer engagement

marketing backed by data Deep intelligence

experience &

Additional marketing & promotion channel

Innovative in-store marketing

understanding of consumer profile & behaviour

Interactive shopping

real time

Smart Retail

Solution





- Business Intelligent
 - ✓ Real-time Data/Predictive Analytics
 - Control Tower
 - Process/Performance management
- Automation / Hand-Free SCM
 - ✓ Instantaneous Supply/Demand Planning
 - AutomatedProcessing/warehousing
- Digitalization
 - ✓ End-to-end Visiblility
 - ▲ Agility Network
 - ✓ Traceability Management



Who is GS1?



GS1 - A Global Standards Organization

Headquartered in Brussels, Belgium; since 1973

Neutral & not-for-profit

Global & local User-driven & governed

Inclusive & collaborative



Global Recognition and Partnership



















































GLOBAL DATA STANDARDS

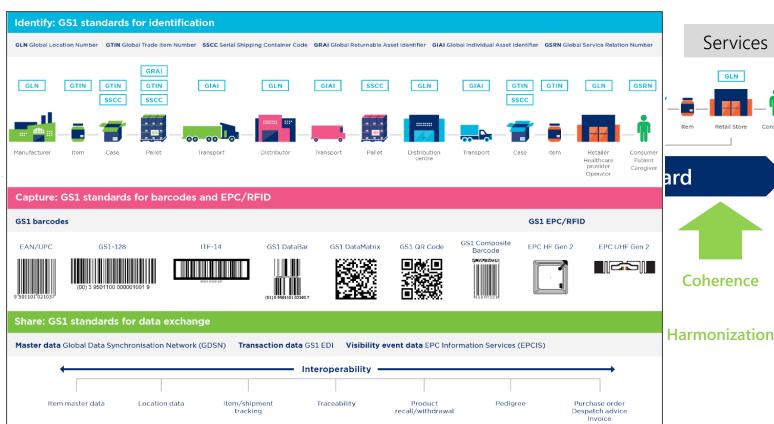
Delivering Values across the Supply Chain













BEYOND THE BARCODE

GS1HK Solutions & Services

Brand Protection

- Product Authentication
- Channel Management

Go Digital · Go Smark

Anti-phishing

Smart Biz Solutions

- Smart Retai
- Smart Operations
- End-to-End Visibility

Enterprise Data Services

Omni-Channel

Commerce

- Supply Chair Digitization
- Supplier Management
- Product Data Mgt
- Trade Finance

GS1 Standards

Training

- Knowledge Building
- Lalent Developmen
- Industry Best Practices
- Experience Centre (Innovation Centre



Enable Digital Transformation with Data-Driven

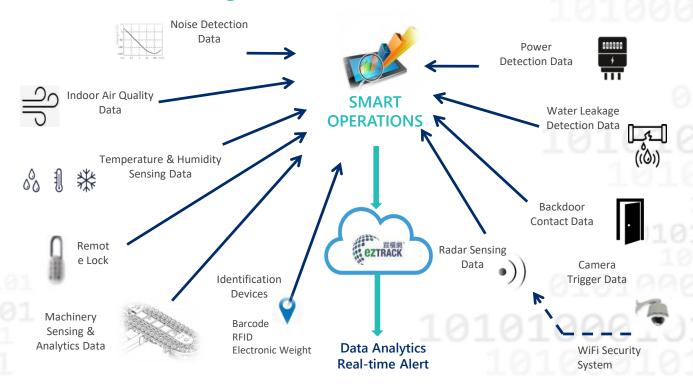
SMART OPERATIONS

Transform businesses with automated data capturing & real-time actionable insights throughout out the entire operation flow



GS1HK SMART OPERATIONS

Gain Insights from Data that Matters





SMART OPERATIONS



Air Quality Control

The Platform performed preventive action on abnormal cases (turn on the exhaust fan when detected the situation with bad air quality)

Move from Reactive to Predictive Operation Management

Real-time Monitoring & Alert

Monitor performance & progress, capture key metrics and stay on top of any unusual situations

Enhanced Collaboration

Integrate data from multiple data sources, enhance visibility across functions and drive collaboration across departments

Insights-into-Actions

Provide visualization & predictive analysis, proactively detect issues and identify underperforming areas, streamline and automate corrective actions

Operational Excellence

Transform data into knowledge, enable smart decision making to improve operational effectiveness



GS1HK SMART OPERATIONS

Smart Factory

Values:

- Productivity
- Fault Management
- Product Quality

Services:

- Process Design
- IoT Devices Sourcing
- Digital Forms
- Dashboard Design & Real-time Alert



Smart Warehouse

Values:

- Utilization
- Efficiency
- Responsiveness

Services:

- Layout Design
- Process Design
- Materials Handling Equipment (MHE) & System (WMS) Sourcing
- IoT Devices Sourcing (Sensors, Digital Scales)
- Project Management



Smart Fleet

Values:

- Track & Trace
- Fulfillment (B2B, B2C)
- Visibility

Services:

- IoT Devices Sourcing (Cold Chain)
- Systems (TMS)
 Sourcing &
 Integration
- Dashboard Design & Real-time Alert



Smart Store

Values:

- Traffic
- Customer Experience
- Sales Growth

Services:

- IoT Devices Sourcing (Traffic, Movement)
- Dashboard Design & Real-time Alert





Thank You!

GS1 Hong Kong

www.gs1hk.org

For enquiries, please contact us at 2861 2819 | services@gs1hk.org





企業方案 Enterprise Solutions

「疫」向思維:由防轉攻的三部曲 From Defense to Grow in New Normal

Mikron NG

Co-Owner and Chief Commercial Officer – Business Market & China Business HKBN Enterprise Solutions



A Leading Integrated Telecommunications & **Technology Solutions Provider**



企業方案 **Enterprise Solutions**



HKBN Ltd.

(SEHK Stock Code: 1310)





- **Serves ONE MILLION customers** every 1 in 3 families in Hong Kong
- **Infinite Play:** 5G; OTT Entertainment; All-Round Security; WiFi-6; Smart Home

Disney+ Netflix JOOX...









• Serves ~110,000 / every 1 in 2 active enterprises in Hong Kong¹

- Comprehensive Information and **Communication Technology and** with unbeatable values for private and public sectors
- · Connectivity, Cloud, Cybersecurity Managed IT and Systems integration, etc.



Hong Kong families

Growing From Strength To Strength



企業方案 Enterprise Solutions













2016





2013 2015

2018

2019

2020

2021

Listed in HKEX mainboard Listed in HASE Sustainability index since 2016



Hang Seng Corporate Sustainability Index Series Member 2020-2021





AA rating (Since 2020)
IT SECTOR LEADER

*Since 2016, we have been a constituent of the Hang Seng (HASE) Corporate Sustainability Benchmark Index, which has recognised us with AA ratings for the past two consecutive years (2020 and 2021) – the highest in Hong Kong's telco industry!

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Strong Regional & Local Presence Facilitate Retail Biz into GBA





Headquarters Hong Kong

Asia

Mainland China: Beijing, Shanghai, Guangzhou, Shenzhen, Macau, Zhuhai, Hengqin, Jiangmen, Qianhai, Chengdu

Singapore

Malaysia



Coronavirus reshaped our lives



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COVID-19

POST-COVID-19

A good partner helps you overcome.

In #ToughTimes, we are together

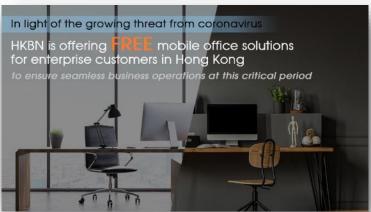


企業方案 Enterprise Solutions



In Jan 2020, 1st wave, we

- offered One-month Waiver Relief to all residential and enterprise customers
- Launched "Business Continuity Service Anywhere"
- 3-month FREE remote office solutions for enterprises





A good partner walks side-by-side



企業方案 Enterprise Solutions

to solve your pain-points





Speedy Response, Professional, Hassle-free

• Edges: 1. **IMMEDIATE** available; 2. Government (FEHD) approved solution; 3. Installation included; 4. one-stop to apply for government certificate

Immediate solution with high flexibility



企業方案 Enterprise Solutions





Best-fit, Innovative, Problem-solving

Edges: 1. Pay by installment → ~\$100 per day; 2. technical support including; 3. Immediate available



Game-changing partnership to create multiple wins – Barter & Bundle



企業方案 Enterprise Solutions













HOME+ App

- ✓ Buy HKBN Service with Your Service
- ✓ Leverage HKBN / HOME+ customers
- ✓ Co-marketing / Branding → Your coupons at MyHKBN / HOME+ App

Fill the IT gap for your development & expansion





HKBN
IT Outsourcing
Service



w/ Largest Microsoft Accredited Engineers and more...

- ✓ Available in HK and across GBA
- ✓ Your IT Partner with accredited & trusted engineers
- ✓ Pay on usage: token-base or monthly subscription

Capture market opportunities with value for money solution



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- ✓ One-stop application
- ✓ One-device with 12 payment options
- √ Value-for-money service



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Key Takeaways

- ✓ New post-covid era needs Agility
- ✓ A good partner grows with you
- ✓ Innovative solutions bridge you to new retail era



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Talk to our experts and get your HK\$5,000 enterprise consumption voucher.

Mikron NG

Co-Owner and Chief Commercial Officer – Business Market & China Business HKBN Enterprise Solutions



Digital Transformation Increases Financial Performance

Predict, Prove, and Deliver ROI through RFID

Unlock your hidden potential with Checkpoint

Benny Ngan Senior Business Development Manager 5, May 2022





Company Background

Founded in 1951 in Toronto, Canada, CCL (Connecticut Chemical Limited) is one of the largest label companies in the world, providing innovative solutions to Home & Personal Care, Premium Food & Beverage, Healthy Care & Specialty, Automotive & Durables and Consumer markets worldwide.



Product and service cover 43 countries

■ 204 production facilities

25,100 employees

C\$5.7 billion revenue (2021)

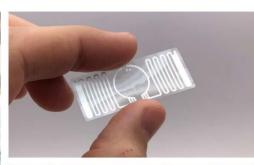




- Leading intelligent retail solutions provider
- A complete offering of RF, RFID and AM technology to protect retailers' revenue and reduce shrinkage
- Checkpoint high theft solution adopted by 90% of the top North American retailers & 70% of the top global retailers
- Vertically integrated RFID solution provider of hardware, software and RFID labels
- Checkpoint source tagging solution protects top 50+ retailers globally with 1.6 billion RF labels applied at source
- Checkpoint's unique Client Success team helps guarantee the success of solution deployment and continuous improvement on ROI











The challenge for retailers

Empty shelves

Supply chains are often global, and getting stock in the right place at the right time is tougher than ever. After all, customers cannot buy what they cannot see.

Too much stock

Despite the above, in an effort to keep up with customer demand, retailers are stocking more and more items, 42,000 items on average according to our experience*.

Omnichannel

Retailers now sell online, on mobile, and in-store. Managing inventory and providing a consistent service to customers across all channels is a much bigger task.

Increased competition

With the advent of e-commerce, retailers are competing against retailers all around the world that can deliver to customers in their locale.

Customer demand

Retail is now an experience, and the onus is on retailers to step up and deliver what the customer demands.





Your route to taking control



Step 1.





Step 2.





Step 3.



PREDICT ROI with Store Scan

Use a free and easy Store Scan to predict what your ROI will be if you were to deploy RFID. Discover how many of your products are already tagged, and how accurate your inventory is in these areas.

PROVE ROI with an RFID pilot

Why not put the prediction to the test with a pilot in a handful of stores? See the results for yourself in a small-scale, controlled environment before you decide to continue further.

DELIVER ROI by deploying RFID

The best way to get the most out of RFID is through a wider-scale deployment. So why wait? RFID can help your business sell more and lose less.

Step 1: Predict ROI

Store Scan

Free. Fast. Simple



Is RFID right for you?







A Store Scan will predict how much you can...





...REDUCE UNDERSTOCKING:

stores are replenished with the right product at the right time = sales uplift



...IMPROVE ON-SHELF AVAILABILITY:

reduced out-of-shelf situations = increased sales of key lines



...IMPROVE WORKING CAPITAL EFFICIENCY:

increased inventory accuracy in-store and overstocks eliminated = lowering costs



...ENABLE EFFICIENT OMNICHANNEL OPERATIONS:

reduction in safety stock and lower order cancellation rates = sales increase



...INCREASE EFFECTIVE STORE ASSOCIATE TIME MANAGEMENT:

reduction in back office tasks = increased customer satisfaction



...INCREASE ERP SYSTEMS EFFICIENCY:

effective management of re-orders supporting store replenishment = sales uplift

Step 2: Prove ROI

Pilot

Assess. Implement. Review.



Demonstrate the value of RFID.





Do a pilot to PROVE your ROI

Store Scan can only predict ROI based on the stock that a retailer currently has on their shopfloor

Get the detail you need before making a decision on deployment

We pilot with selected merchandise, set SMART KPIs, and key milestones to measure ourselves against

The pilot is carefully managed to give the fairest demonstration of the value of RFID

A pilot is where that ROI is proved based on certain key performance indicators that are important to the retailer

At Checkpoint we use an economic, customer-led approach to demonstrate the value of RFID

Feedback is provided at regular intervals, with pre-scheduled weekly updates and monthly KPI reviews

By proving the ROI in this manner retailers can leverage all the work done in the pilot for their production rollout

Step 3: Deliver ROI

Deployment

In-store. Across the supply chain. At source.



Let's get started together.







Step 3: Delivering ROI through RFID deployment

In order to get the most out of RFID, retailers have to fully commit to a wide-scale deployment. After all, a pilot can only prove ROI, deployment delivers it.

We engage.

At Checkpoint we know that when it comes to RFID one size doesn't fit all. Our Client Success Managers work with each customer to meet their particular needs.

We support.

RFID deployments don't have a definitive end, and Checkpoint is dedicated to contious improvement and support. Support that we are happy to provide.

We commit.

At Checkpoint we see our customers as partners, who we work with every day to help them get the most out of their RFID deployment.

At Checkpoint, we don't "download and disappear".
We're dedicated to client success



With consumer demands accelerating at an extraordinary rate driven by technology, Checkpoint delivered intelligent solutions - bringing clarity and efficiency into the retail environment anytime, anywhere.

Checkpoint's intelligent retail solutions are built upon 50 years of radio frequency technology expertise, innovative high-theft and loss prevention solutions, market-leading software, RFID hardware and comprehensive labelling capabilities to brand, secure and track merchandise from source to shelf.







Thank you



(C)