

GS1 x HSBC x Li & Fung

The development of check out technologies
結帳技術的發展趨勢

2019 / 11 / 07 (Thursday)

3:30pm - 5:30pm (Registration starts at 3:00 pm)

Diamond Room, CUHK Business School Town Centre
Unit B, 1/F, Bank of America Tower
12 Harcourt Road, Central

Language: English

Organiser

HKEBA

Funded by SME Development Fund

工業貿易署
Trade and Industry Department



Ms. Isabel Tsui
GS1 Hong Kong

Senior Manager,
Business Development



Mr. Teddy Chiu
HSBC

Senior Vice President,
Regional Sales, Global Liquidity &
Cash Management



Mr. Marco Chen
Fung Academy

General Manager,
Innovation & Experimentation



Any opinions, findings, conclusions or recommendations expressed in this material/event (or by members of the Project team) do not reflect the views of the Government of the Hong Kong Special Administrative Region, Trade and Industry Department or the Vetting Committee of the SME Development Fund and the Dedicated Fund on Branding, Upgrading and Domestic Sales (Organisation Support Programme).

Event Organizer
主辦機辦

HKEBA
香港電子商務業協會

HKEBA

Hong Kong E-Commerce Business Association



Elton Chan

Chairman, HKEBA



Matt Li

Vice-Chairman, HKEBA

Trade and Industry Department 工業貿易署

Supporting Organizations 合作機構

CUHK Business School 香港中文大學商學院



工業貿易署
Trade and Industry Department



Past Seminars 過往講座

1. Introduction to Omnichannel Sales & Commerce



2. Applications of Platform and Enterprise Data Analytics



Lane Crawford

3. Boosting your brands in China



4. Accelerating your e-commerce business



5. Growing crossborder e-commerce for brands in South East Asia



6. General Managers' view on crossborder e-commerce from Hong Kong



7. Data & Privacy in a Digital Age



Past Event
過往活動

Taiwan Delegation Tour 2019



Taiwan Startup Stadium

AppWorks



Startup Terrace



OpenCart x Stripe

How to build an effective online store?
如何創立成功的網上商店?



Mr. Andy Tsang
OpenCart
Director - Head of Marketing & Partnership

2019 / 12 / 19 (Thursday)

TBC: 5:00pm - 7:00pm (Registration starts at 4:30 pm)

TBC: Rm 3439, 34/F, Tower 1, Times Square, 1 Matheson Street, Causeway Bay

Language: English

Organiser

HKEBA

Funded by SME Development Fund



工業貿易署
Trade and Industry Department

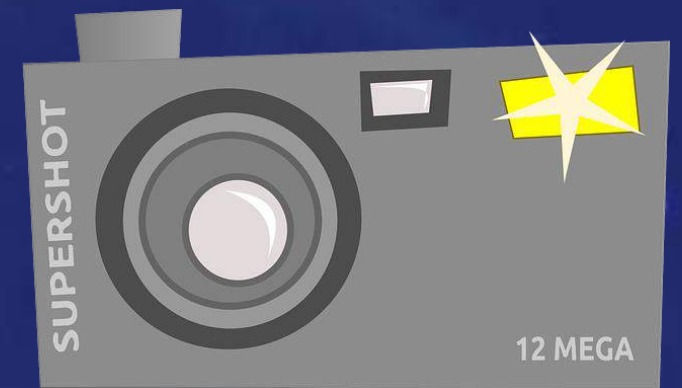


Ms. Satya Tammareddy
Stripe
Business Sales Manager -
South East Asia and Hong Kong



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Photo Taking 拍照



Speakers 演講者



Ms. Isabel Tsui

GS1 Hong Kong
Senior Manager,
Business Development



Mr. Teddy Chiu

HSBC
Senior Vice President,
Regional Sales, Global Liquidity &
Cash Management



Mr. Marco Chen

Fung Academy
General Manager,
Innovation & Experimentation

GS1 Hong Kong



Ms. Isabel Tsui

GS1 Hong Kong
Senior Manager,
Business Development





The Global Language of Business

GS1 HK Smart Retail Experience Sharing - A New Way to Expedite the Check-out Process

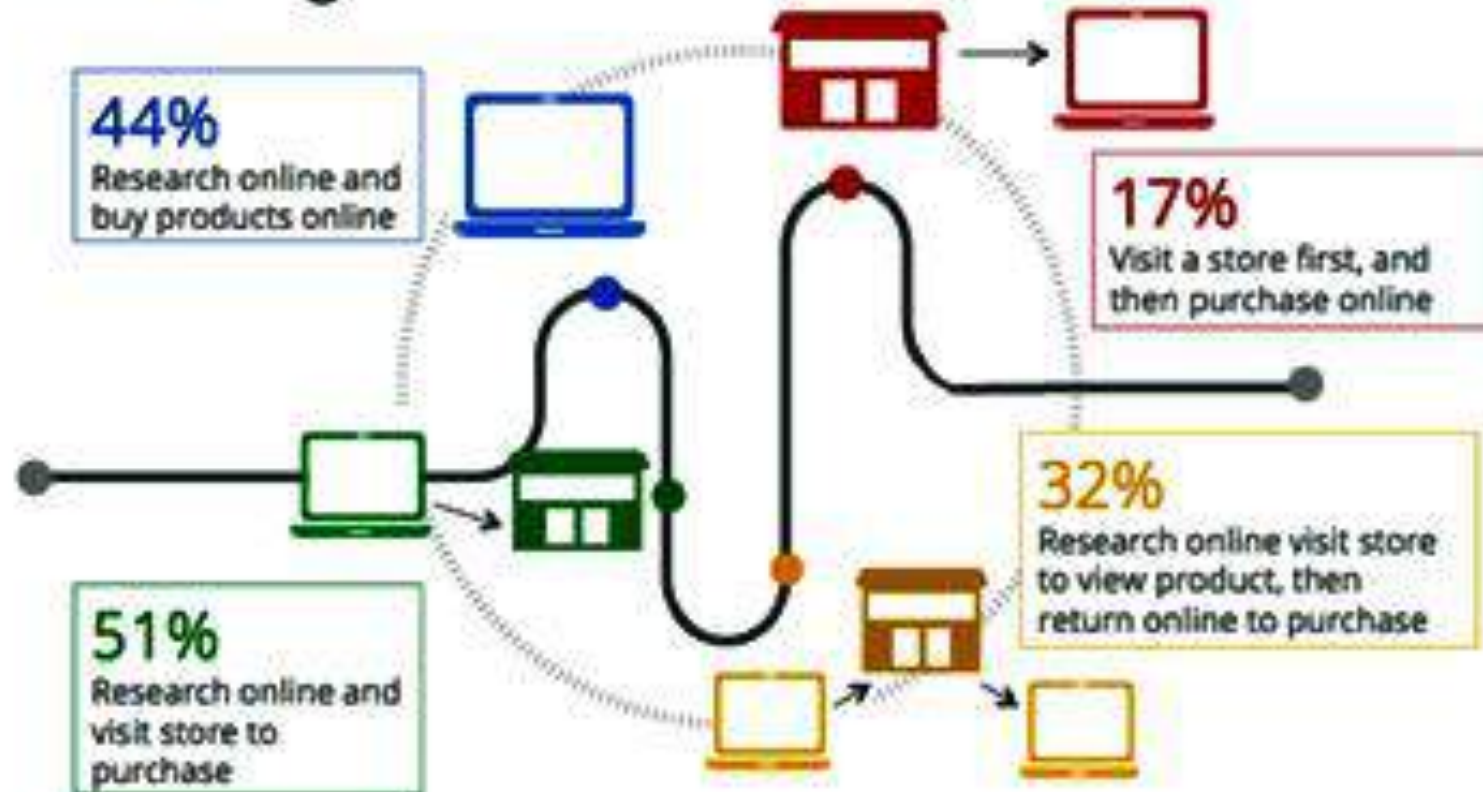
Isabel Tsui
isabeltsui@gs1hk.org, GS1 HK

Nov 5th 2019



Offline Vs Online Shopping Behavior

Lines between offline and online shopping experiences are blurring



Consumers' Omni-channel Shopping Behavior



Omni-channel shopping behavior makes the check-out process very long!

A New Way to Facilitate Customers' Check-out Process



McDonald's self order kiosk:
product display + self check-out



CDC's self checkout kiosk



self checkout kiosk for apparel industry



GS1 HK's Smart Kiosk
/ Smart Tray



Case Sharing – A New Way to Expedite the Check-out Process

A New Sales and Marketing Way to Connect Consumers and Facilitate Check-out



- **CONNECT**
PRODUCT INTRODUCTION
- **ENGAGE**
SHOPPERS
- **COMMERCE**
RECOMMENDATIONS & SALES
- **GAIN INSIGHT**
SHOPPER PROFILE
- **Check-out**
FASTER

Different Outlook of Smart Kiosk Can Be Provided



Smart Kiosk/Tray Packed with Advanced IoT Technologies



Real-Time Video Analytics

- Camera to collect customer gender, age & emotion
- Counts traffic to the kiosk and staying duration
- On-the-spot identify return shoppers

Touch Screen Display

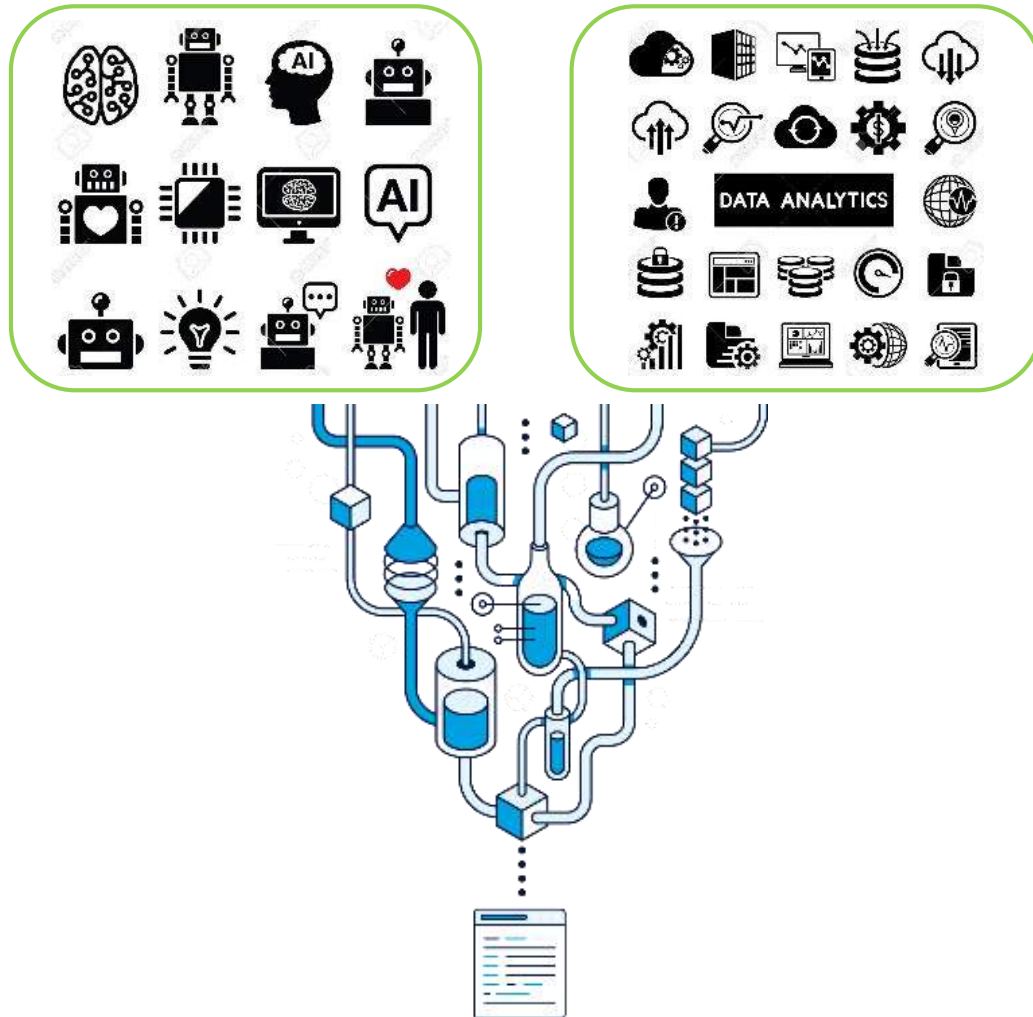
- Displays product details and promotion video
- Allows customer to choose more in-depth product information
- Captures customer browsing trends

RFID Antenna

- Detects product being picked up and duration
- Auto-Triggers on-screen product introduction



At Heart – Advanced AI & Data Analytics for Sales & Marketing



In-Deep Understanding Shopper Profile

- Know Your Shopper: Gender, Age, Emotion,...
- Know What Shopper Likes: Product browsed and duration

Motivate Buying Decision

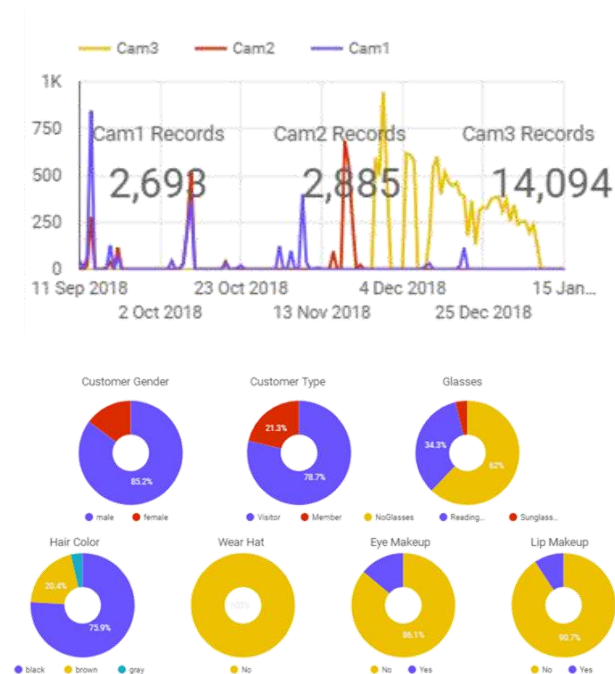
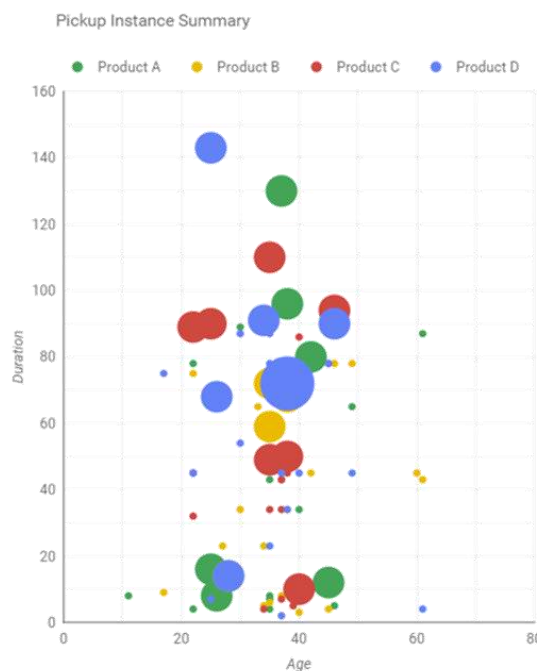
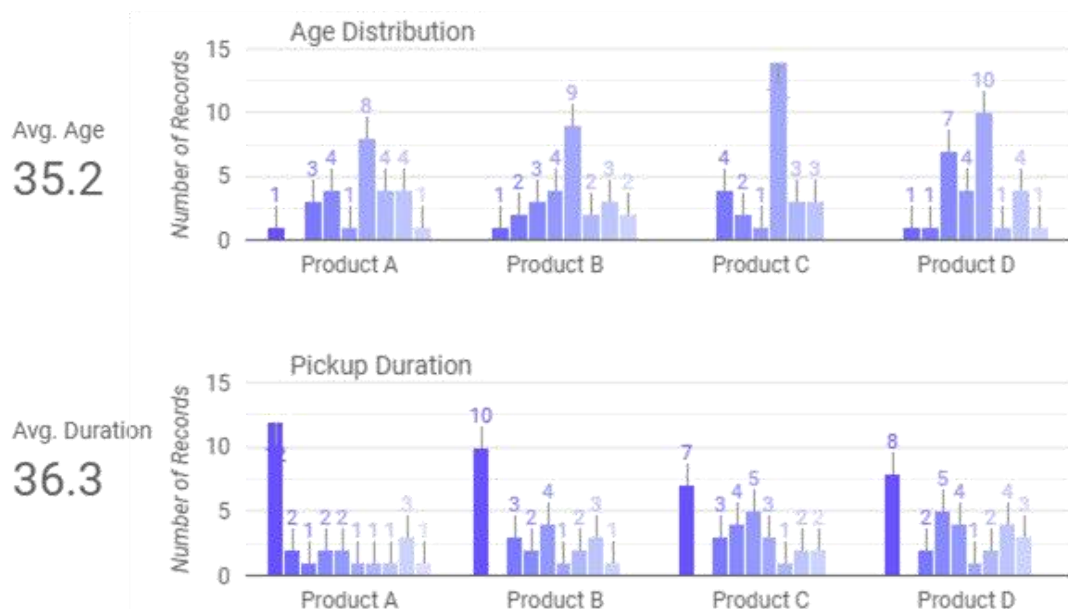
- Present personalized product information and promotional offers
- Immediate online purchase with discount offers

Enhance Consumer Purchase Experience

- New revenue stream with Cashless Payment support
- Fast lane counter on promotional items

In-Return with Deep Insights on Shopper Activities

- Comprehensive insights on consumer and product analytics
- Special coupon or direct purchase discount can be offered according to the number of times the same customer interested to the same product

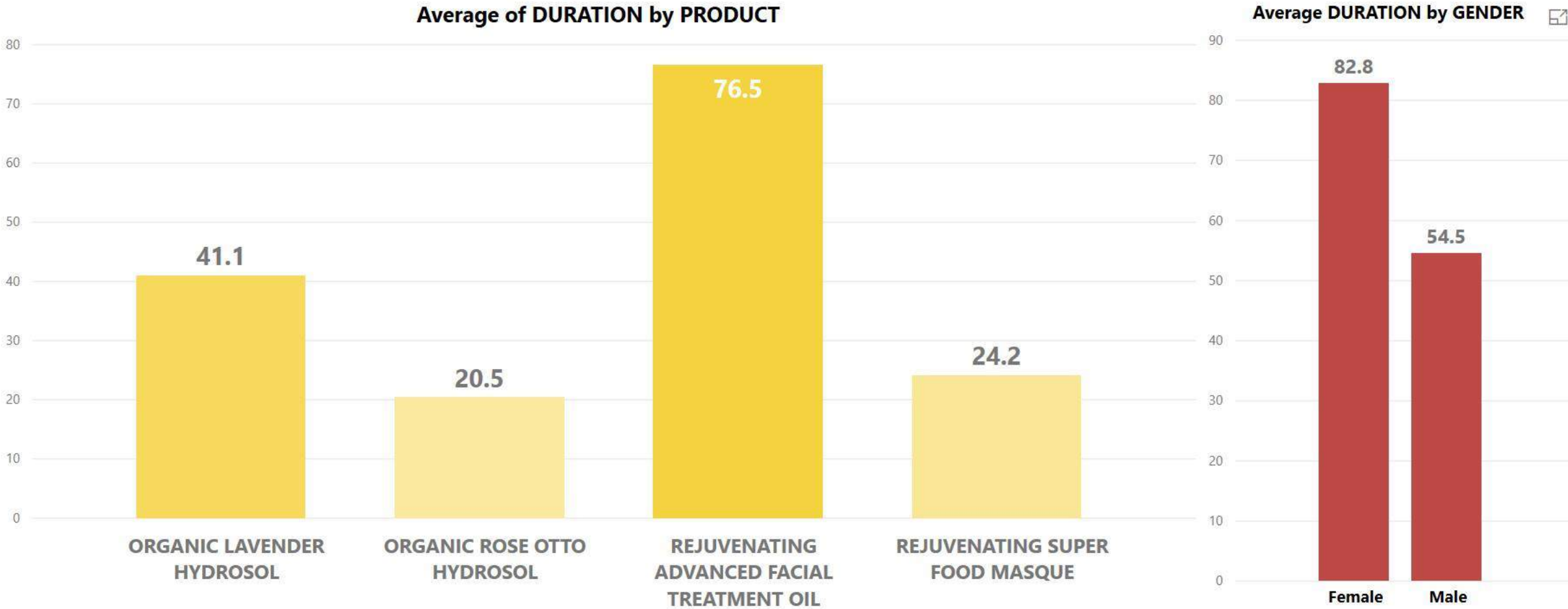


Average duration of interaction for Facial Treatment Oil seems to be the highest among the 4 products

Average duration is derived by the sum of all duration of the products divided by the number of sessions where the product is being interacted with.

Facial Treatment Oil has the highest average interaction time of 76.5 seconds, and Lavender Hydrosol comes in second at 41.1 seconds.

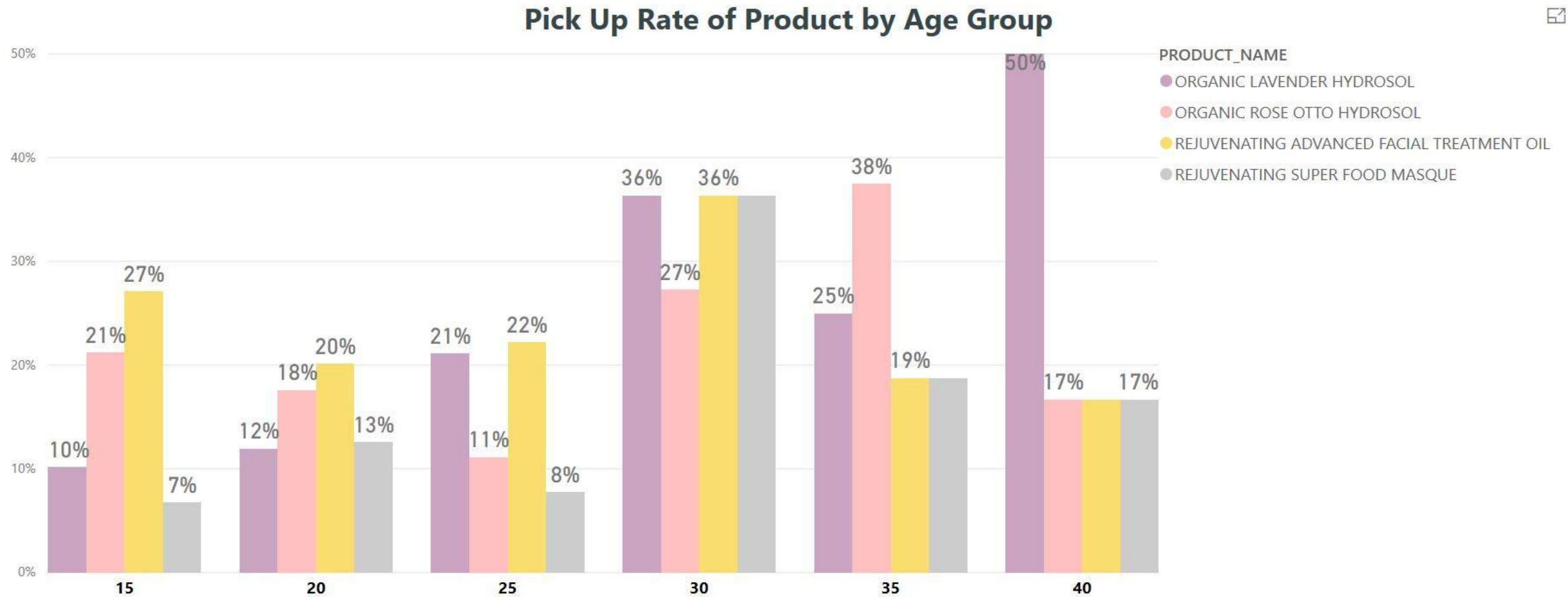
Females are also interacting with the products longer than males.



Pick up rate for products are higher for consumers in their 30s

Consumers in their 30s has a higher pick up rate across all products, it also shows that they are picking up more than one item in a session, as compared to consumers in their 20s.

Note : Consumers can pick up several products per session.

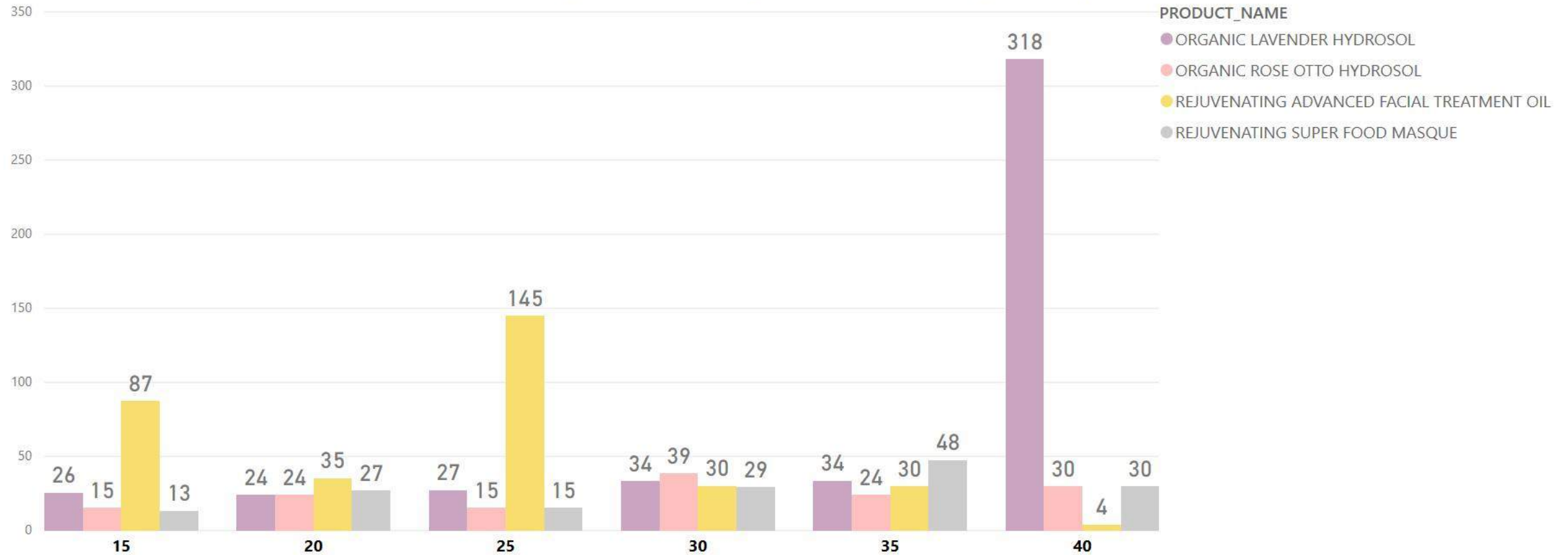


Consumers below 30 interact with Facial Treatment Oil longer, and consumers in their 40s interact with Lavender Hydrosol significantly longer than other products

The average duration of pick up for all products are is about 25 to 40 seconds, and we can see some significantly higher durations for Facial Treatment Oil for the younger age groups and Lavender Hydrosol for people in their 40s.

Note : Consumers can pick up several products per session.

Average Duration by Product and Age Group



Analytics Reports for Product Marketer for Better Insights

- Shopper profile analysis such as age group, gender, visit duration, etc.
- Product preference by age group, gender, browsed duration, etc.
- Product preference by new or repeated shoppers
- Product browsed by age, gender, etc.
- Responsiveness to marketing offers by age, gender
- Shopper traffic heat map

Other Questions of Retailers - Strategic Marketing Planning



Support
Mass Locations



Unlimited Kiosk
Expansion



User Define
Subscription Period

Any Questions?

HSBC
匯豐



Mr. Teddy Chiu

HSBC

Senior Vice President,
Regional Sales, Global Liquidity &
Cash Management



FASTER PAYMENT SYSTEM 「轉數快」支付系統



Date : 29 Aug 2019

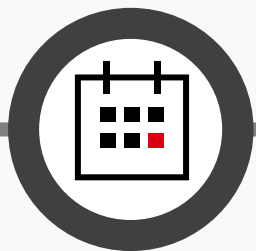


*CROSS-BANK/E-WALLET INSTANT 24^{hours}/7^{days}
A MOBILE NUMBER IS ALL YOU NEED*



FASTER PAYMENT SYSTEM

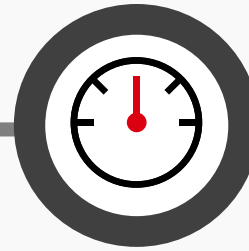
An Enhanced Domestic Payment Infrastructure



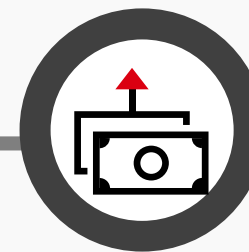
Launch:
30 Sep 2018



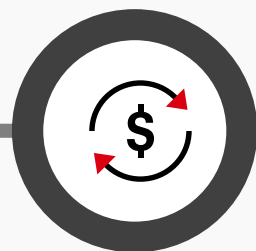
Interbank
Transactions



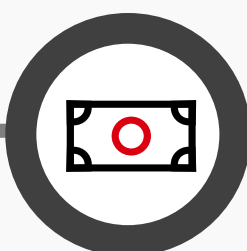
Real-time
Settlement



Real-time Direct
Debit



24 / 7
Processing Time



Currencies

HKD

RMB



Addressing
Service



QR Code
Payment

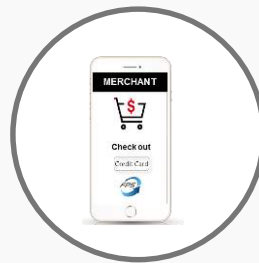
HSBC BUSINESS COLLECT

A seamless, secure collection service for mobile payment

滙豐「智豐收」



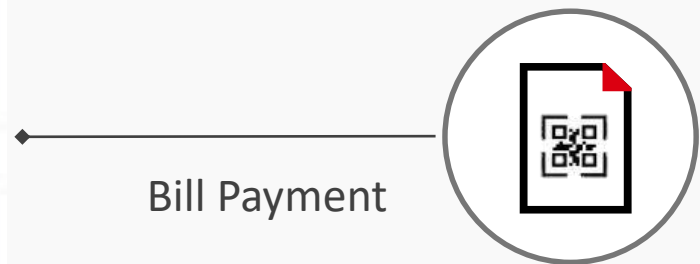
E-Commerce



M-Commerce



Point of Sale



Bill Payment

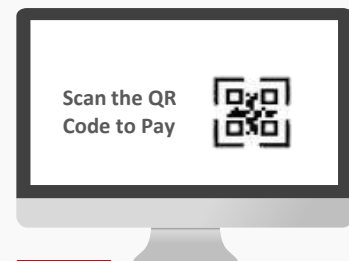
HSBC BUSINESS COLLECT



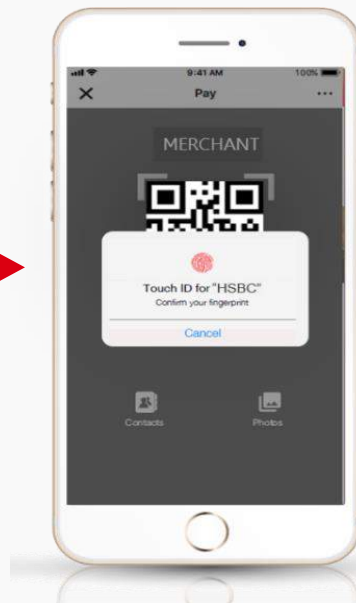
PUBLIC

HSBC BUSINESS COLLECT

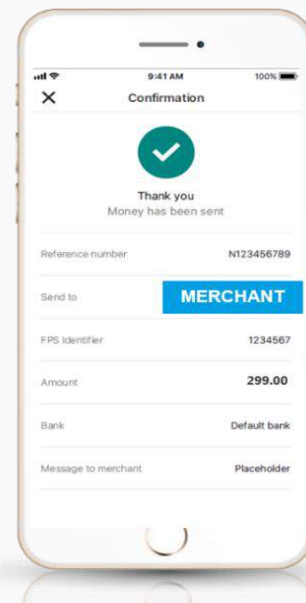
E-COMMERCE



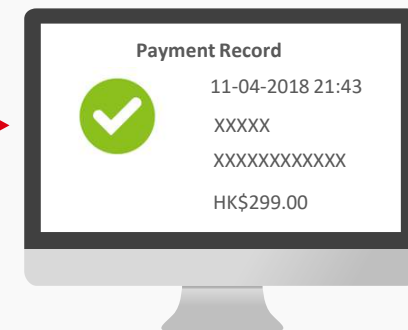
01 Check-Out



02 Customer launch Banking apps / e wallet



03 Customer confirm transaction



04 Merchant payment confirmation

E-COMMERCE – FPS Example



Food and Drinks Home & Care Baby & Mum Pet Zone Marketplace Featured Items Jetso Zone Happy New Year

Buy selected "Happy New Year Gathering" products every \$268



+\$1 REDDEM

Tenren Chrysanthemum Pu Er Tea bag **\$24.8**

BUY NOW



Buy selected sauce, noodles and tea products every \$568



+\$1 REDDEM

\$70 AFTER TASTE Palmier

Buy selected soup packs, dried food and Chinese sausage products every \$188



+\$1 REDDEM

\$19 BOTONG Suet Yin

Terms and Conditions applied

HAPPY NEW YEAR



④ **SELECT PAYMENT METHOD & CONFIRM ORDER**

Select payment method and click **Proceed to Checkout** confirm order


Alipay HK

微信支付 WeChat Pay

Credit Cards

PayPal

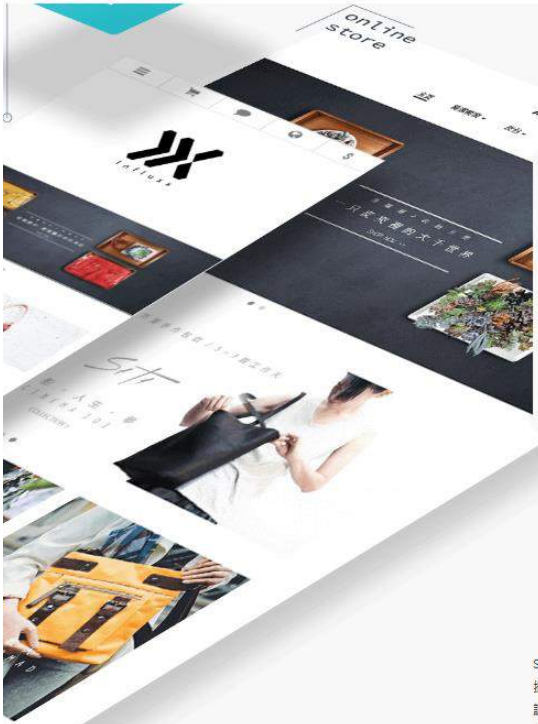
FPS




FPS **HSBC**

Please complete the transaction within 10 minutes, else the QR code will expire.

E-COMMERCE – Business Partnership






強大、實用的網店功能

SHOPLINE 提供多種模板介面、多種付款及送貨選項，以及各項行銷資源的整合，協助你在短時間內建立功能完整的購物網站，輕鬆建立你的網店！

了解功能特色



簡單、直接的網店設置


SHOPLINE 引導式的後台操作介面，助你輕鬆建立完善、專業的品牌網店，不需寫入編碼程式，既省時又省錢！

免費註冊體驗

完善的管理後台 流暢的商店體驗

SHOPLINE 網店營運平台，助您大幅提升網店銷售，並提供由商品上架、付款、物流以至促銷活動等所有功能設定，使用 RWD (Responsive Web Design) 響應式的網頁設計，使網頁自動調整，適用於不同裝置，隨心所欲建立屬於你的個人風格網頁。


即看開店秘訣




PAGEVIEW





ORDER

TRACKING



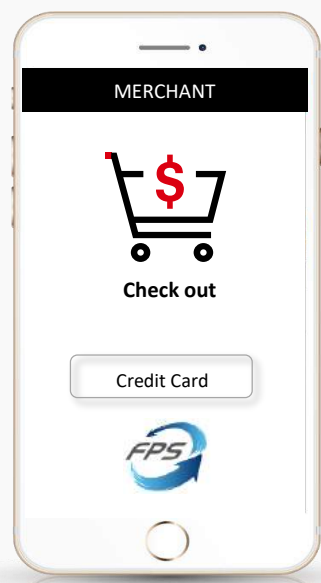
Merchants



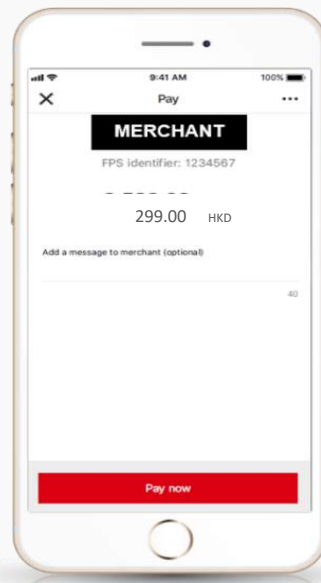


Please complete the transaction within 10 minutes, else the QR code will expire.

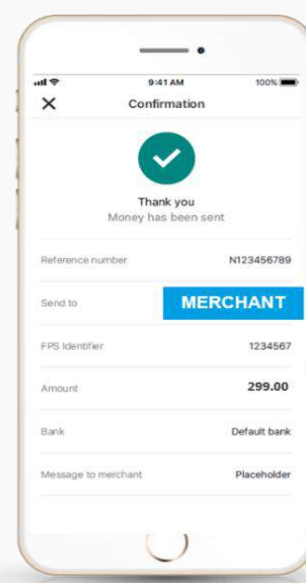
M-COMMERCE



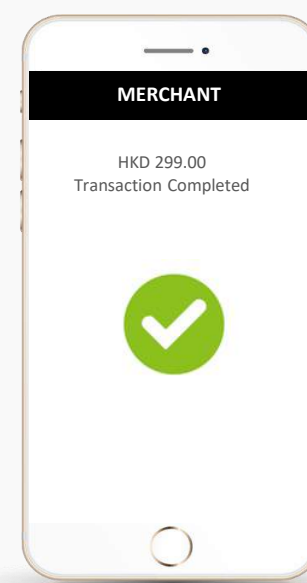
01 Check-Out



02 Customer launch Banking
apps / e wallet



03 Customer confirm
transaction



04 Merchant payment
confirmation

HSBC BUSINESS COLLECT

POINT OF SALE

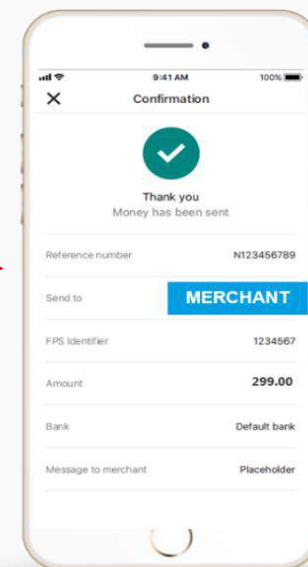
mPOS machine



01 Check-Out



02 Customer launch Banking apps / e wallet



03 Customer confirm transaction



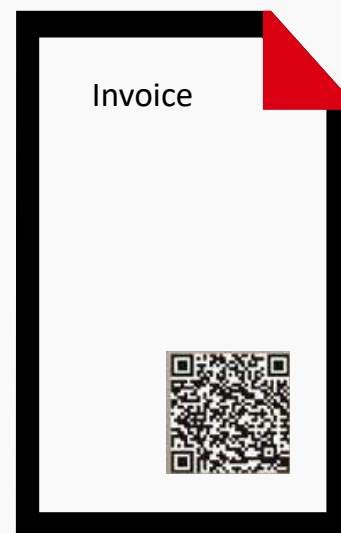
mPOS machine



04 Merchant payment confirmation

HSBC BUSINESS COLLECT

BILL PAYMENT



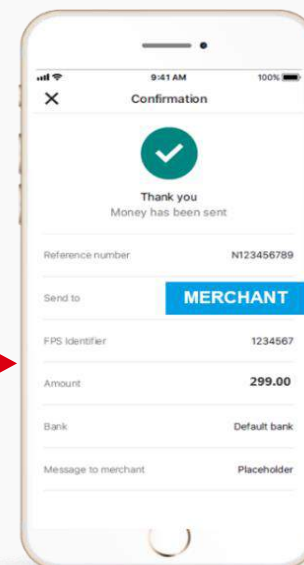
01

Customer receive invoice



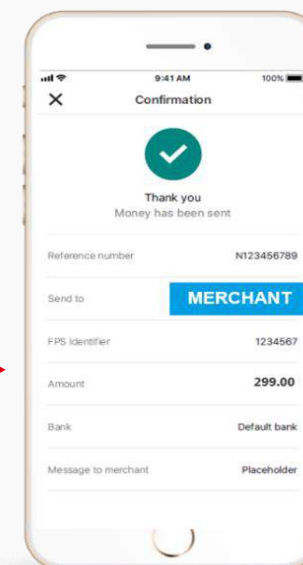
02

Customer launch Banking apps / e wallet



03

Customer confirm transaction



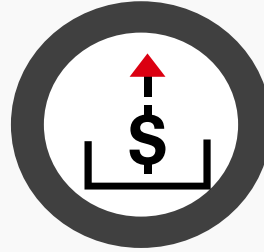
04

Merchant payment confirmation

HSBC BUSINESS COLLECT - BENEFITS



COST Saving



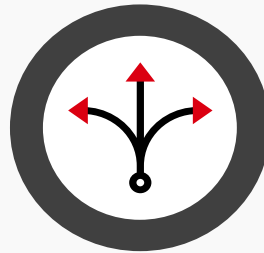
CASH FLOW
Enhancement



STREAMLINED
Reconciliation



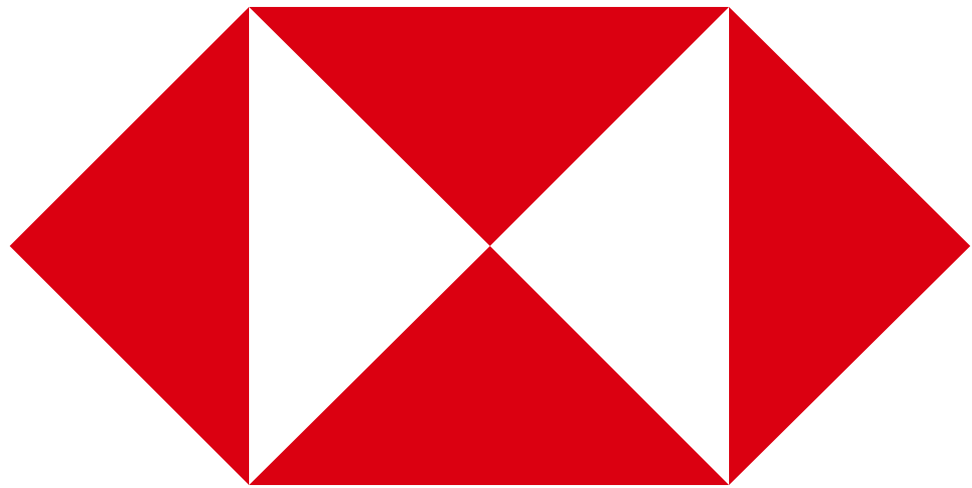
SECURE & SEAMLESS
Experience



COMPREHENSIVE
Applications



EASY Integration
& Implementation



PUBLIC

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Explorium Hong Kong 利程坊



Mr. Marco Chen

Fung Academy
General Manager,
Innovation & Experimentation

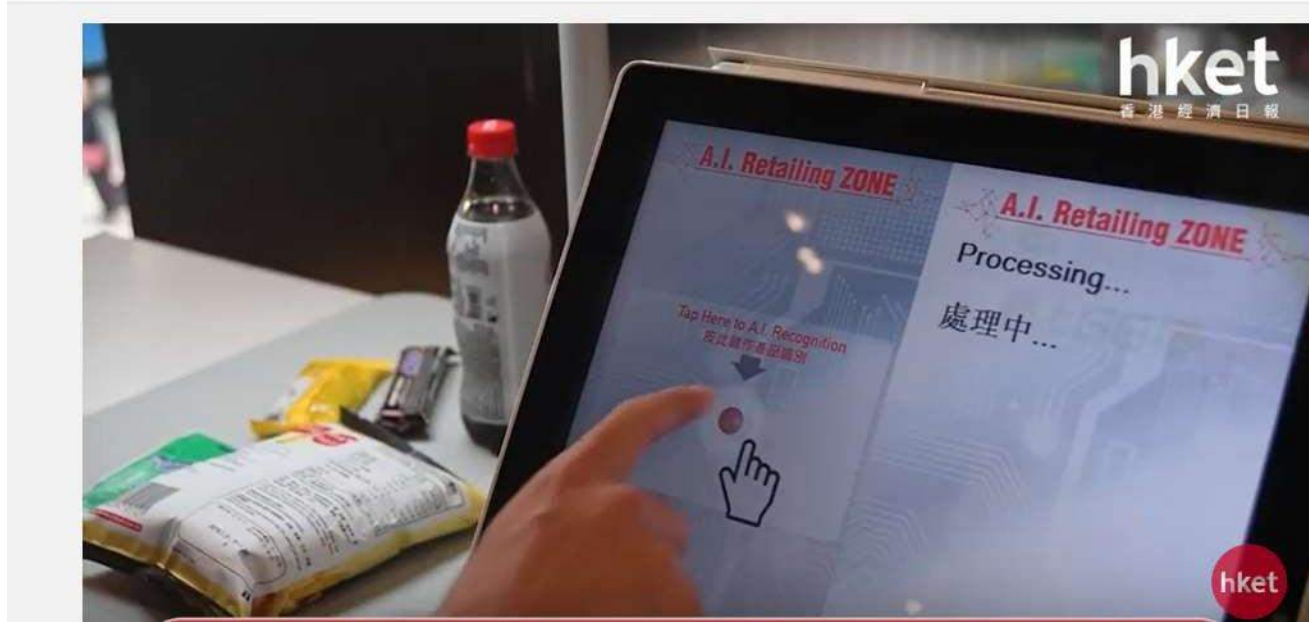




HK First AI Checkout Experience Circle K x JD.AI

Marco Chen, Explorium HK - Nov. 2019





<https://youtu.be/Efl4cnlQt14>

FUNG GROUP AT
A GLANCE

 **Hong Kong**
Headquartered multinational group with
3 companies listed on the
Hong Kong Stock Exchange 

Over
 **2,700**
retail outlets
in Asia, including across
95 cities in China

 A global network of
over **350 offices**
and distribution centers

 **50** export
markets

馮氏



 Leaders in sourcing,
logistics, distribution and retail


Some
42,000+
employees 

 **113+** years
of history & evolution

US\$22.7 billion 
Group turnover in 2017 





A satellite photograph of Earth at night, showing the curvature of the planet and the glowing blue line of the atmosphere. The landmasses are covered in a dense network of yellow and orange lights, representing cities and urban areas. The ocean is dark blue. A semi-transparent black rectangle is overlaid on the left side of the image, containing yellow text.

Around the world,
industries & businesses
are being disrupted by
the rapid advancement
of technology...





EXPLORIUM Believes in

'Growth through collaboration'



MAP

How we know each other.
Connect. Engage. Bridge.



LEARN

How we learn from each other.
Host. Facilitate. Share.



DO

How we do things.
Solve. Experiment. Invest.



Explorium in numbers

2000

Community
members

4

Sandbox
projects in
Pipeline

7

Pilots
(AI+AR product
development, 3D
configurator, Chatbot,
AI training)

4

Go-lives
(LF Logistics,
SCS 6, Cobalt)

25

In-Residents
Start-ups

7

Parallel
ecosystems
interacted with
(New York, Israel, Shenzhen,
Shanghai, Thailand,
Taiwan, Singapore)

9

Tech
Safaris

#sustainability
#futureofwork
#futureofconsumption
#ai #blockchain
#IoT #AR/VR



Back to Circle K...



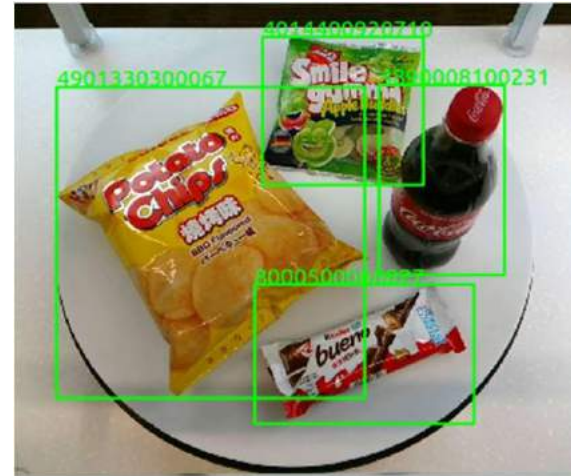
Pain Point: **Queuing at Counter**



The Technology



- Image recognition technology
- 97% accuracy - machine learning
- Takes < 1 second
- Batch processing
- Higher accuracy with more data



Benefits

- An easy and hassle-free checkout experience
- Barcode and RFID not necessary
- Faster check out
- Time & Cost benefits
- Diverse product category
- Overall in-store checkout time is reduced by 30%

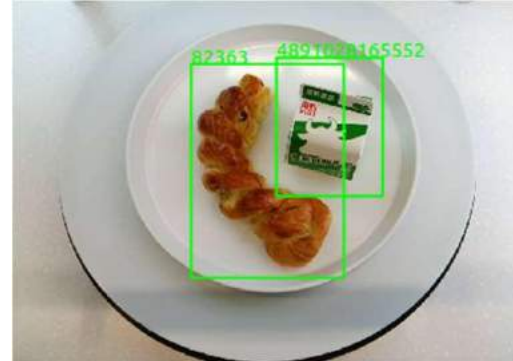
Improvement

- Maintenance
- Increase SKU count
- Overlapping
- Retraining

The Partnership



Fung
Retailing



Different Iteration & the Future





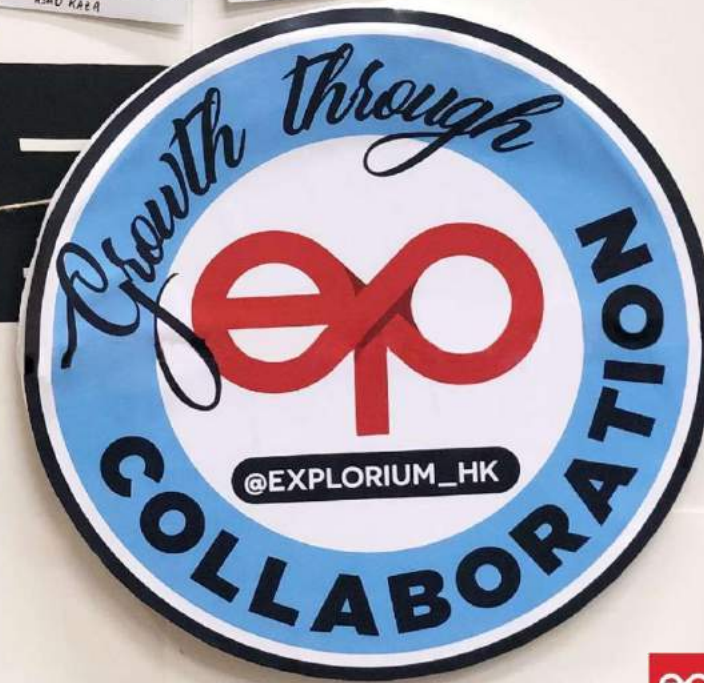
Themes / Learning Concepts:

- Balance of Automation vs. Human
- Question of Ethics
- Partnership and Growth
- Win/Win Partnership
- Product to Market Fit
- Experimentation & Differentiation



Let's Connect!

WeChat Below

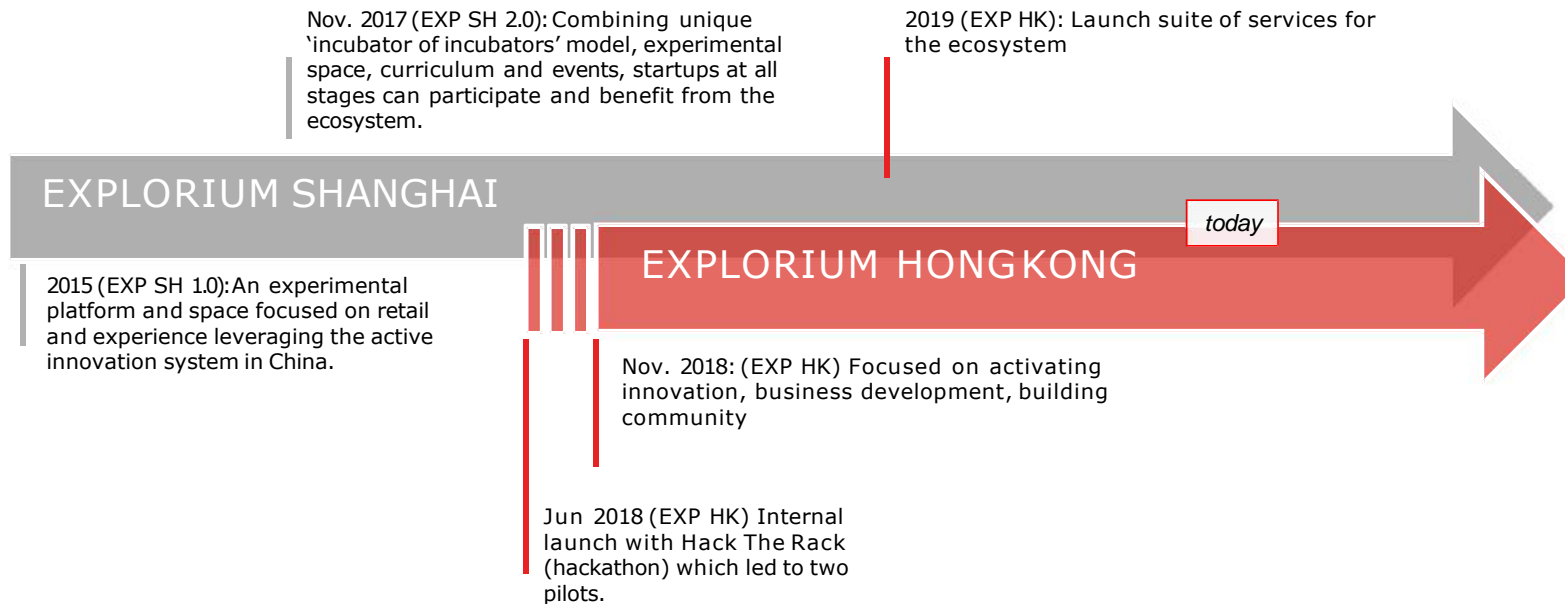


Appendix

It's modular. Not every slide in every presentation... but all should be ready.



The Explorium Story — NETWORK EFFECTS



上海利程坊

Shanghai Explorium



Community
Co-Hosted Events to
Build Influence
and Drive
Innovation in China



Hello Future
A Series of Thought
Leadership Events to
Bring Together
Collaborators



Start Up & Meet Up
Nurturing an
Innovative Culture
Through Sharing from
Startups



Curriculum
Helping startups
Identify opportunities
In supply chain
and retail



Explorium HK

An innovation ecosystem



GS1 x HSBC x Li & Fung

The development of check out technologies
結帳技術的發展趨勢

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3:30pm - 5:30pm (Registration starts at 3:00 pm)

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12 Harcourt Road, Central

Language: English

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HKEBA

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工業貿易署
Trade and Industry Department



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Regional Sales, Global Liquidity &
Cash Management



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