ClinicONE Blockchain-in-Action v3.0

ClinicONE ™ promotes 'Healthcare' not 'Sickcare' !

EMR as a Service

A Secure Multi-Cloud platform built for AI-Ready Electronic Medical Record (EMR) accessible anytime across institutions.

Patient Totality

A digital platform connects Doctor and Patient through Seam-less Patient Journey.

Digital Healthcare

Allow caregiver to reach out & monitor Patient 24 x 7

What's ClinicONE™ ?

ClinicONE™, one-stop HealthTech x InsurTech Digital Platform

A Medical Platform prepared for next generation in Healthcare Industry!

applied technology

Source: Photos from HK Hospital Authority

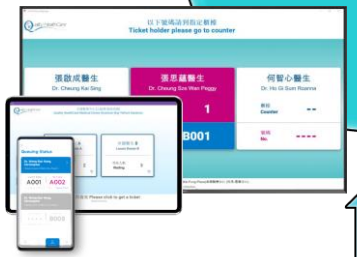
Digitalization in Patient Journey

1. Pre-engagement

eTicket & Booking Management

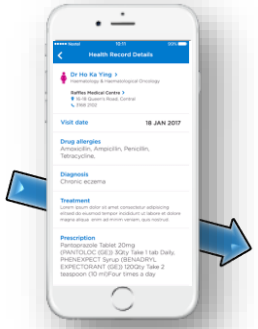
2. Patient Experience

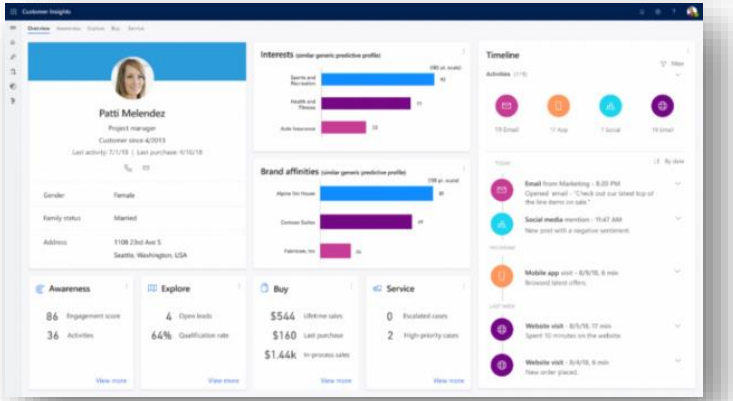
In-clinic Experience



3. Post-Engagement

Patient Engagement





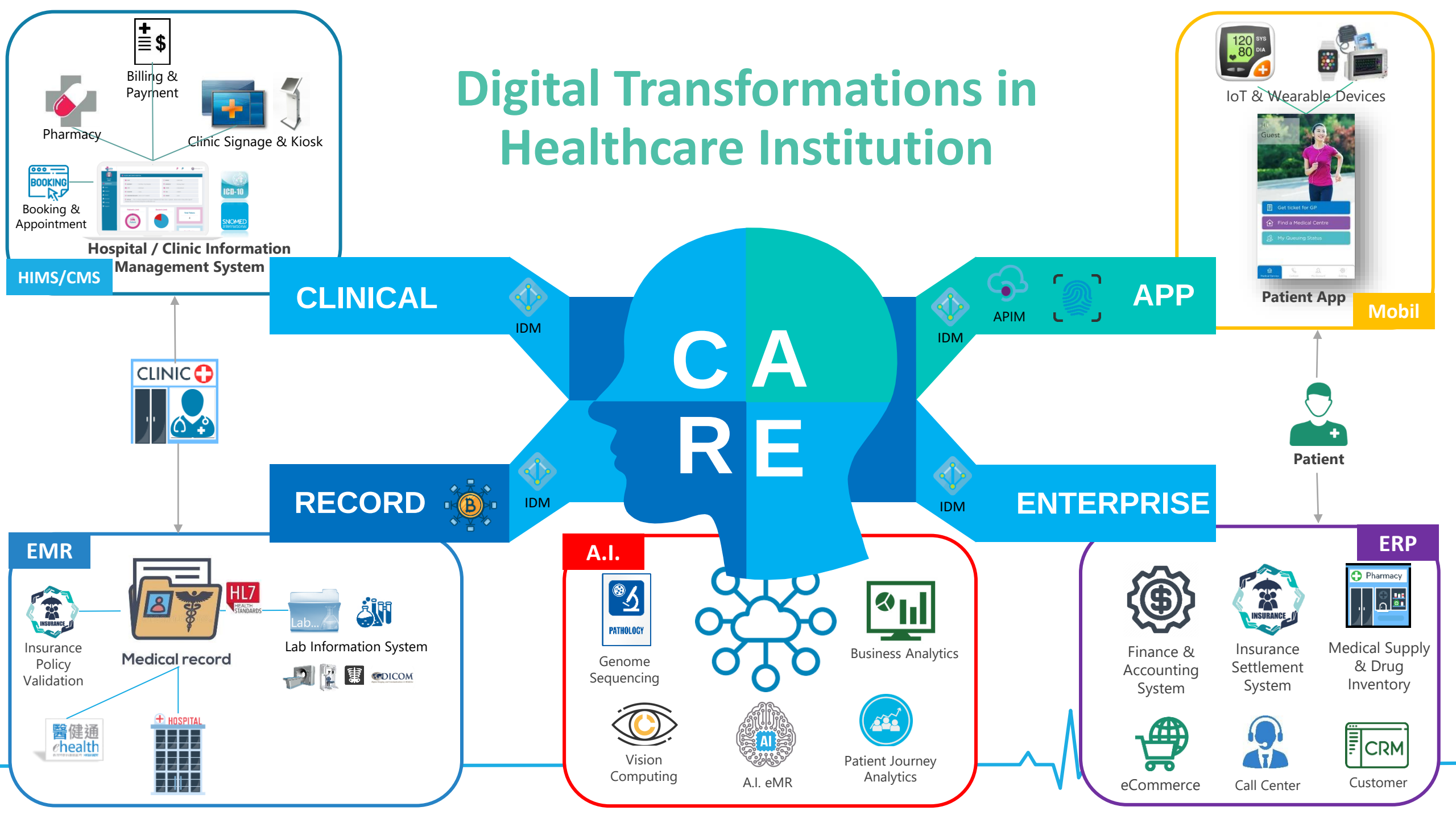
4. Personalization

Patient Profiling

5. Trusted Health Advisor

Healthcare Advice / Reminder

Digital Transformations in Healthcare Institution



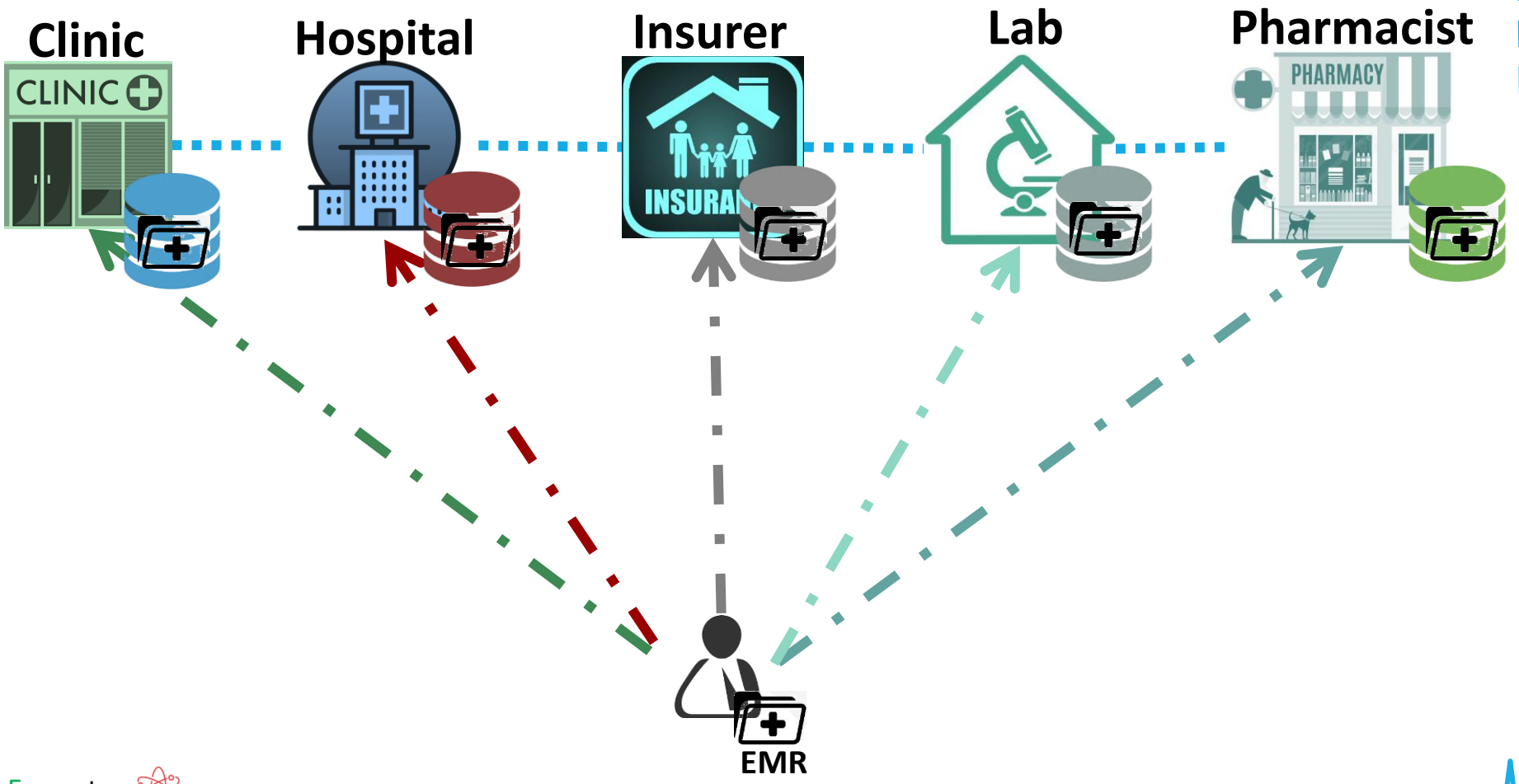
Blockchain Medical Record

Patient Medical record is one of the most distributed structural record in the world.

Blockchain applies a perfect scenario for all these health records become consolidated and trusted for each individual patient all over the world!

Ecosystem with Blockchain

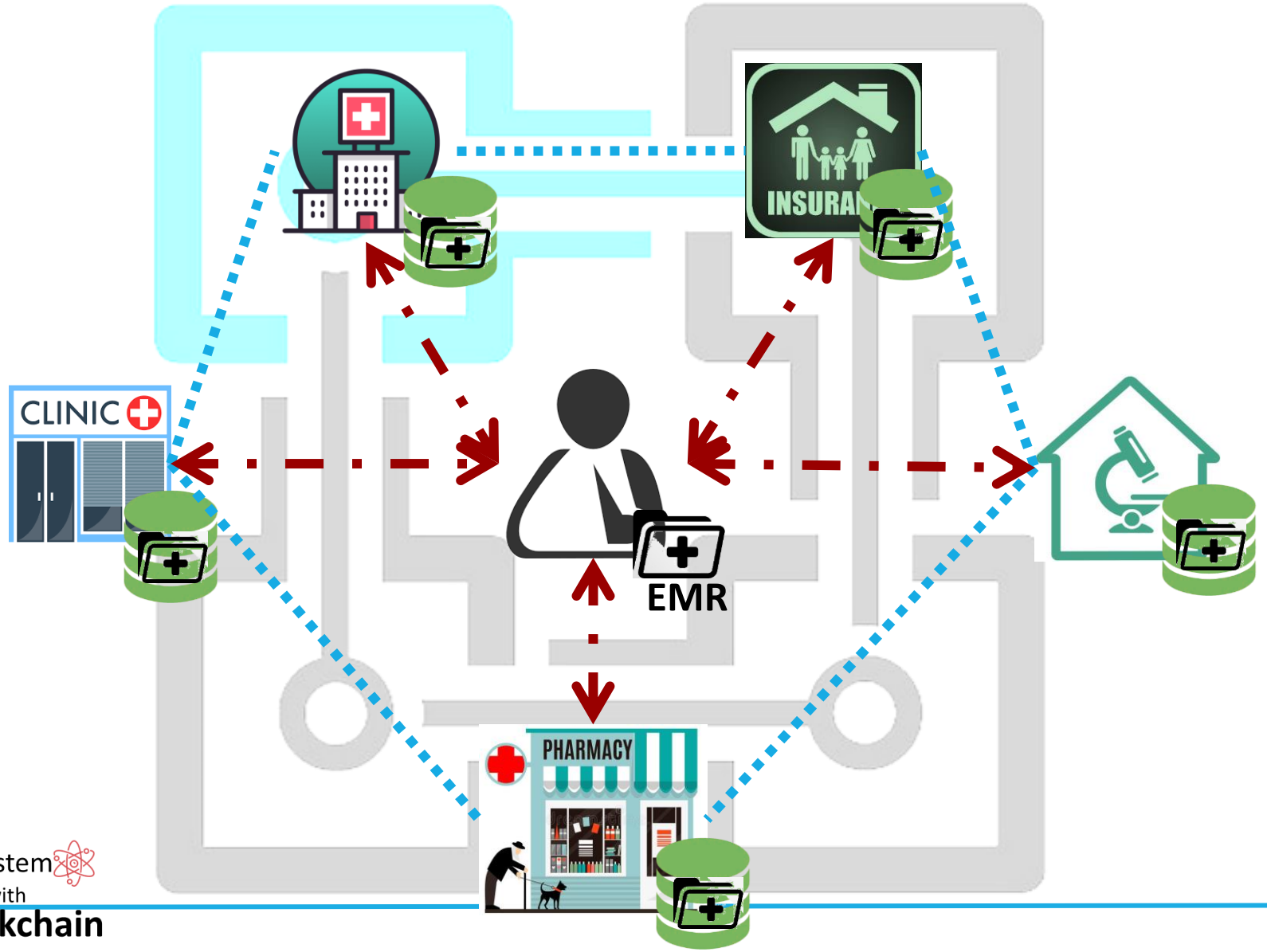
Status Quote



Current Challenges

- Highly distributed Patient Electronic Medical Record (EMR)
- Inconsistent EMR standard, Rules & Permissions
- Patient highly trusts Healthcare providers but Healthcare provider do not trust patient
- EMR Data privacy issue
- Patient has no rights to retain their own EMR

ClinicOne EMR Blockchain reforming Healthcare System



Blockchain Opportunities

- Electronic Medical Record become decentralized for
  - Better EMR exchange
  - Highly secured
  - **Common EMR (FHIR)** standard
  - Common EMR ledger for prescription & insurance claim
- Patient possess their life-time **ONE EMR f**or
  - Precise medical consultation
  - Data Completeness
  - Consistency with Family disease hierarchy

CLINIC ONE

Blockchain-in-Action

Ecosystem with **Blockchain**

Blockchain Scenario 1 : ClinicOne Manufacturer to Patient Distribution Flow

CLINIC ONE

Physical Logistics

Plant

1

Distributor: Cartoon Box

2

Channels: Hospital/Clinic/Drug Store

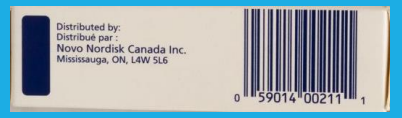
3

Patient

Traceability Method in

Batch ID / ERP record

Cartoon ID / RFID



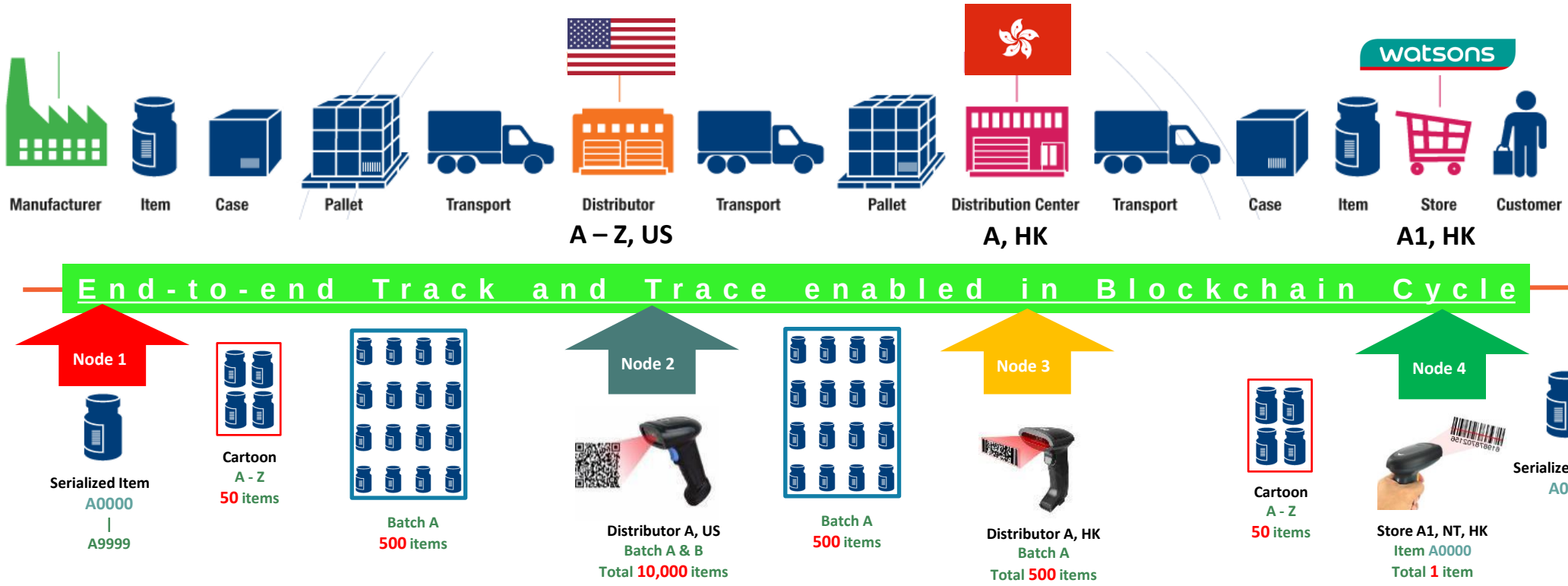
Unit Pack / Barcode

Dosage Pack / QR code

Ecosystem with **Blockchain**

ClinicOne Blockchain Traceability & Authentication

Unique Identification & Visibility by Blockchain



Blockchain Benefits:

- Enriched logistic / Supply chain visibility
- Able to connect multiple distribution channels (nodes)
- Fast deployment & Low cost

Ecosystem with **Blockchain**

Blockchain Scenario 2 : Clinical & Operation Improvement - Treatment to Procurement

Kit - General Anaesthetic Kit

Kit Contents		
Part No.	Description	Qty
BDS3000	GAS TUBING	1
CTF12	5mm PORT	1
CTF73	10mm PORT & TROCAR	1
CTS22	10mm PORT	1
CV65-701	FRED	1
FAL024	PURPLE BERT BAG	1
FBE10128	CAMERA COVER	1
FDJ136	DIATHERMY PAD	1

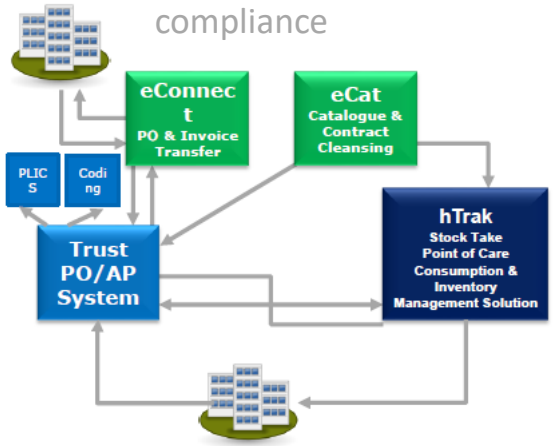
(240)DERBYKIT002

Consumables and Parts Packed as a Kit for Treatment

Consumables or Parts

Scan the Kit to Confirm for specific Treatment

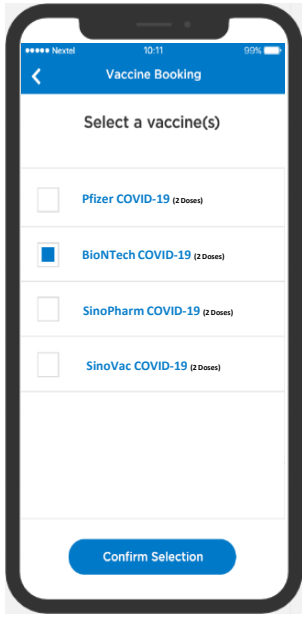
Automatic eProcurement compliance



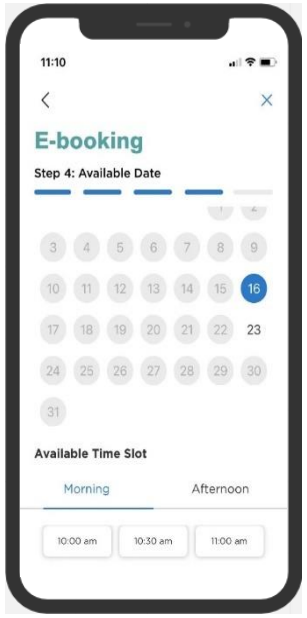
- Auto Replenishment & eProcurement
- Reduce missing items for each patient treatment
- Streamline order & procure process

Ecosystem with **Blockchain**

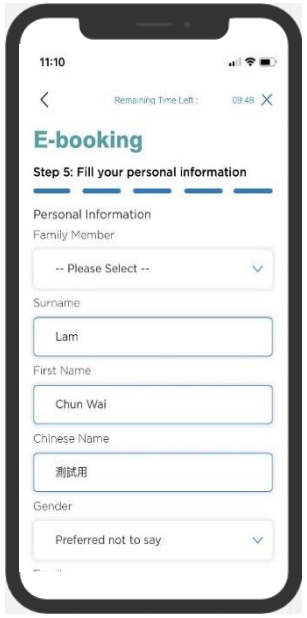
Blockchain Scenario 3 : ClinicONE Vaccine Management



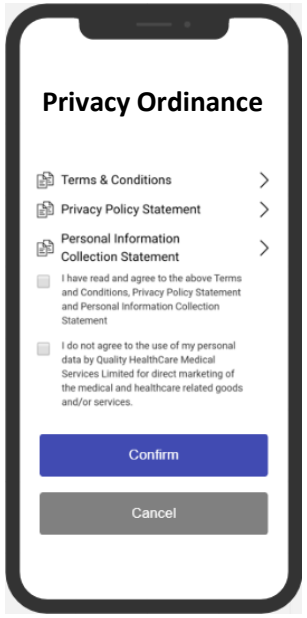
Select Vaccine Type



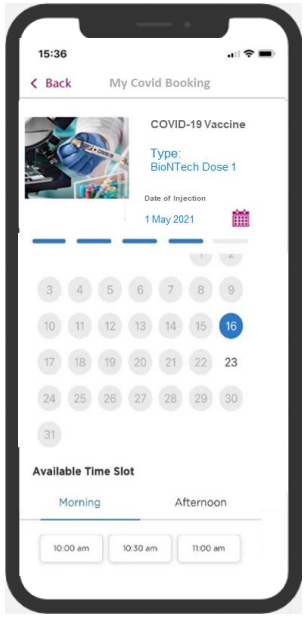
Choose Vaccine Injection Date



Verify Patient

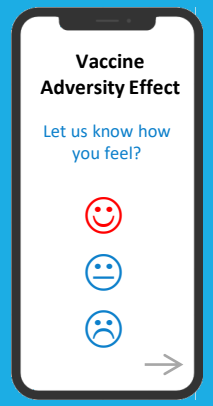


Confirm Appointment



Reserves Next Injection Date

Blockchain Enabled Travel Bubble



Patient Survey

Backend Integrations:

- **Real-time Vaccine inventory** & quota management
- Real-time Clinics (manage over 1,000 clinics) & staff's availability
- Patient Record Identity System verification & Security Control
- **Fully Compliant to GDPR & PDPO**

System Scalability:

- Deploy on either Cloud &/or on-premises Data Centre
- Fast & Quick **Deployment within 30 days**
- High Performance & Robust Architecture (deployed for large institutes with **over 1,000 clinic outlets**)

Blockchain Scenario 4 : EMR as a Service (EMRaaS)

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Patient Data

Anonymization

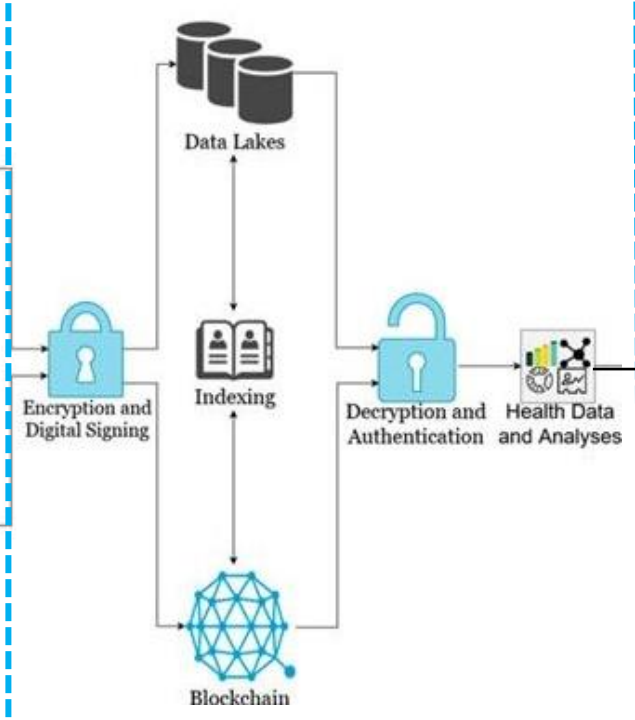
Patient / Caretaker

Biomatrix Consensus

fido ALLIANCE

Clinical Records

HL7® FHIR®



CLINIC ONE
EMRaaS

Patient / Caretaker

Biomatrix Consensus

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Blockchain Nodes

CLINIC ONE
CARE API Adapters

Insurance Company
- Underwriting Dept
- Claims & Settlement Dept
- Marketing Dept

Research Labs
- Genome Labs
- Pharmaceutical Co
- Gov & NGOs

Service Provided:

1. AI Computing for Specific Syndrome Detection
2. On-demand EMR for Insurer & Corporate Services
3. Patient Record Retention & Healthcare Recommendations

Processing elapse time in minutes

applied technology

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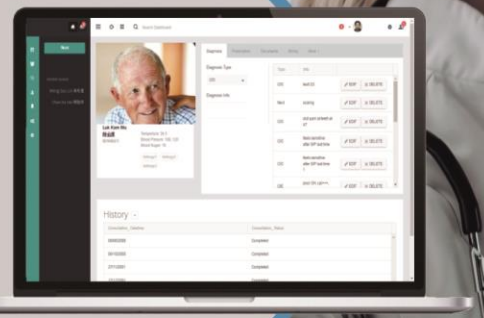
Blockchain Scenario 5 : ClinicONE Digital Homecare

CLINIC ONE
CMS

- Prescriptions
- Medical Record
- Real time vital sign

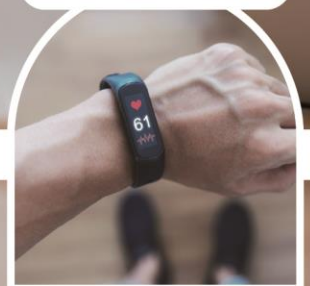


CLINIC ONE
Nursing Care

CLINIC ONE
M.IOT Home Center

Blood Pressure

Smart Wristband



Blood Glucose Meter

Smart Stethoscope

Security

- **Patient Privacy vs AI / Bigdata Technology** (anonymization)
- Common worldwide standards : **Fast Healthcare Interoperability Resources (FHIR®).** HL7, ICD-10, SNOMED, DICOM…
- Patient Health Record (Fully compliance to HIPAA standard#)
  # Health Insurance Portability & Accountability Act, USA
- ISO27001 (information security & Data centre standard)
- Support & maintenance without back-door connection^
  ^ Top ten cyber security risks, the Open Web Application Security Project (OWASP)
- Platform certified by Microsoft & Oracle*
  * Microsoft Gold ISV Partner & Oracle Gold Partner
- Infrastructure Security : Real time data backup & archive in Cloud &/or On-premises, Real-time Activity Log to track changes

Strategic Partners :

Microsoft Partner
Microsoft
Gold Cloud Platform
Silver Application Development
Silver Data Analytics
Silver Data Platform
Silver Small and Midmarket Cloud Solutions

HSBC

HKSTP LEAP@HK 飛躍計劃

醫健通 ehealth

ClinicONE Healthcare Security Levels :

Data Privacy

General Data Protection Regulation

HK PDPO

Medical Record

HIPAA COMPLIANCE
SNOMED International
FHIR
ICD-10
DICOM
HL7 International

Security Procedures

International Organization for Standardization ISO 20000
Information Security Management ISO 27001 Certified

App & Web Intrusion Protection

OWASP

fido ALLIANCE simpler stronger authentication

ATG Professional Certification

Microsoft Partner
Microsoft

- Gold Data Analytics
- Gold Cloud Platform
- Silver Data Platform
- Silver Security
- Silver Application Development

aws Advanced Consulting Partner

ORACLE Gold Partner Cloud Standard

Microsoft Certified: Azure Solutions Architect Expert
Microsoft

Microsoft Certified: DevOps Engineer Expert
Microsoft

Microsoft Certified Trainer 2020-2021
Microsoft

AWS Certified Solutions Architect – Associate
Amazon Web Services Training and Certification

Cisco Certified Network Professional Routing and...
Cisco

Project Management Professional (PMP)®
Project Management Institute

Certified Information Systems Security Professional (CISSP)
(ISC)²

Certified Information Systems Auditor® (CISA)
ISACA

Certified Information Security Manager® (CISM)
ISACA

STRATEGIC PARTNER & ORGANIZATION

Microsoft
aws
ORACLE
FUJIFILM
INGRAM MICRO
HKSTP 香港科技園
醫健通 ehealth
HSBC
AMERICAN EXPRESS
stripe

OUR CLIENT

卓健 Quality HealthCare
基督教聯合那打素社康服務 United Christian Nethersole Community Health Service
植齒及頷面外科中心 Dental Implant & Maxillofacial Centre
Adventist 港安 Health
HKU Med
康健 Town Health
HKHC 香港體檢
東華學院 TUNG WAH COLLEGE Nursing School
Bupa
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恒生銀行 HANG SENG BANK
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