



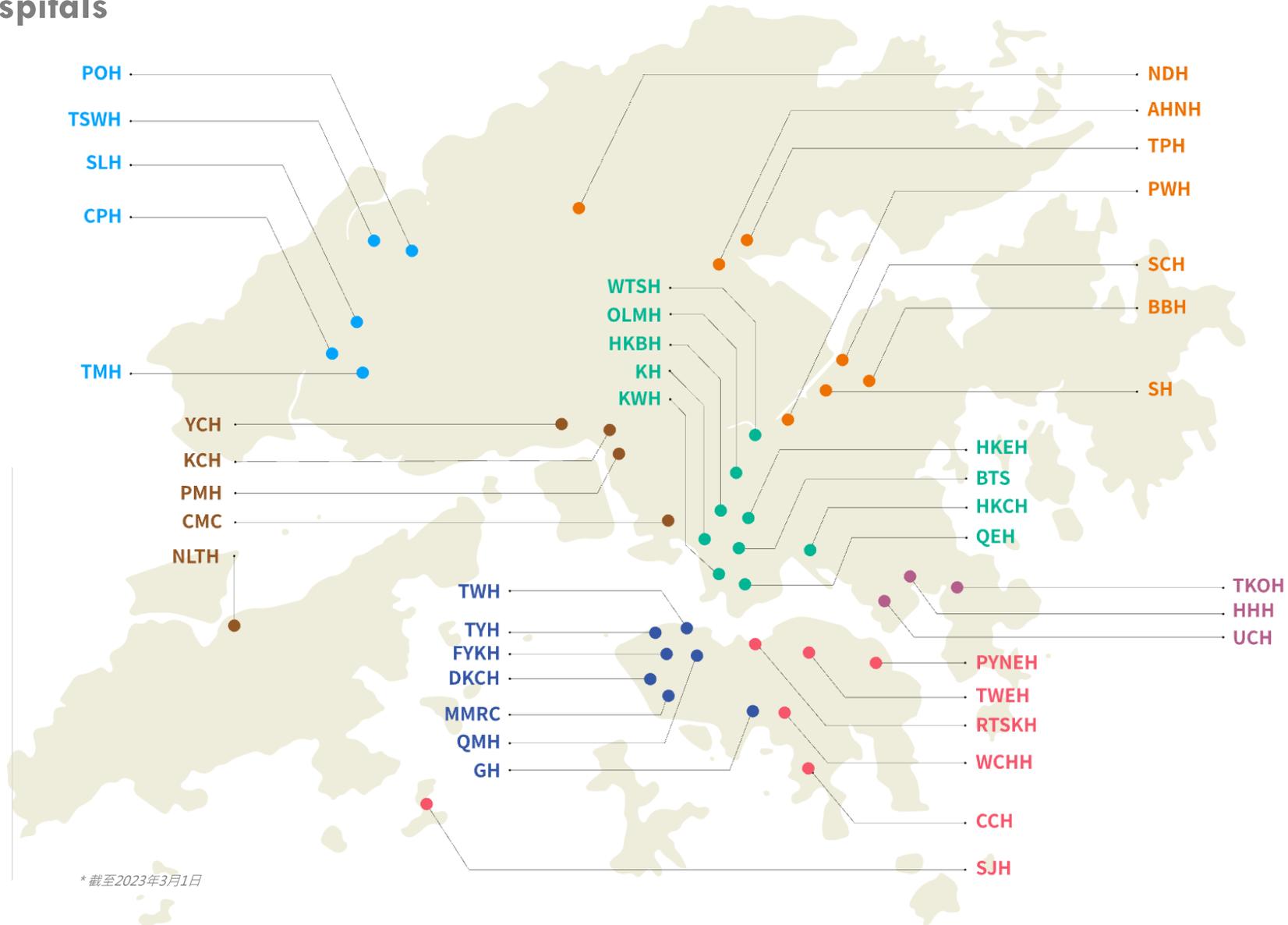
# From Hospital Digitisation to Scalable HealthTech Solutions: Data, IP, and Market Deployment

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# Hospital Authority (HA)

## Public Hospitals



43 Hospitals

120+ Clinics

30000 beds

Every year:

22M+ episodes of care

3.5M individuals

\*截至2023年3月1日

# Digital Health in the HA

## The Road Less Travelled



- 1990** Patient administration + Departmental systems
- 1995** Clinical Management System (CMS)
- 2000** CMS Phase II
- 2003** eSARS
- 2008** CMS Phase III
- 2010** Filmless HA
- 2013** Inpatient MOE
- 2016** HK-wide eHRSS  
Mobile CMS  
CMS IV
- 2019** Smart Hospital  
HA Go  
eHRSS Stage 2
- 2023+** Digital Health Platform  
eHealth+



醫健通  
ehealth  
香港特別行政區政府 HKSAR GOVT





# HA's Clinical Management System

## Digitalising Health

**Database**  
30 years of structured standardized data

**Team**  
In house clinicians informaticians and developers

**System**  
Integrated & consistent across all settings

**In house R&D**  
In-house IP and open source => 80% cost reduction



# All 43 HA Hospitals have been awarded HIMSS EMRAM Stage 7



# EMRAM

STAGE

# 7

## Hong Kong Hospital Authority

has achieved Stage 7 as designated by HIMSS using the Electronic Medical Record Adoption Model.

*Valid through 2025*

This organisation demonstrated its commitment to improving health through the effective use of information and technology. Being a data-driven organisation indicates this hospital is enabling transformational change towards improving care quality, safety, and efficiency.

**Harold F. Wolf III**  
President & CEO  
HIMSS



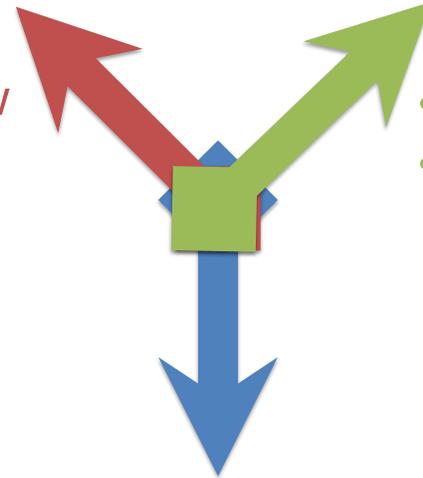
## 3 Basic Steps

### Support the processes of care

- Enhance clinical workflow
- Zero training

### Improve quality & safety

- Clinical decision support
- Monitor and measure

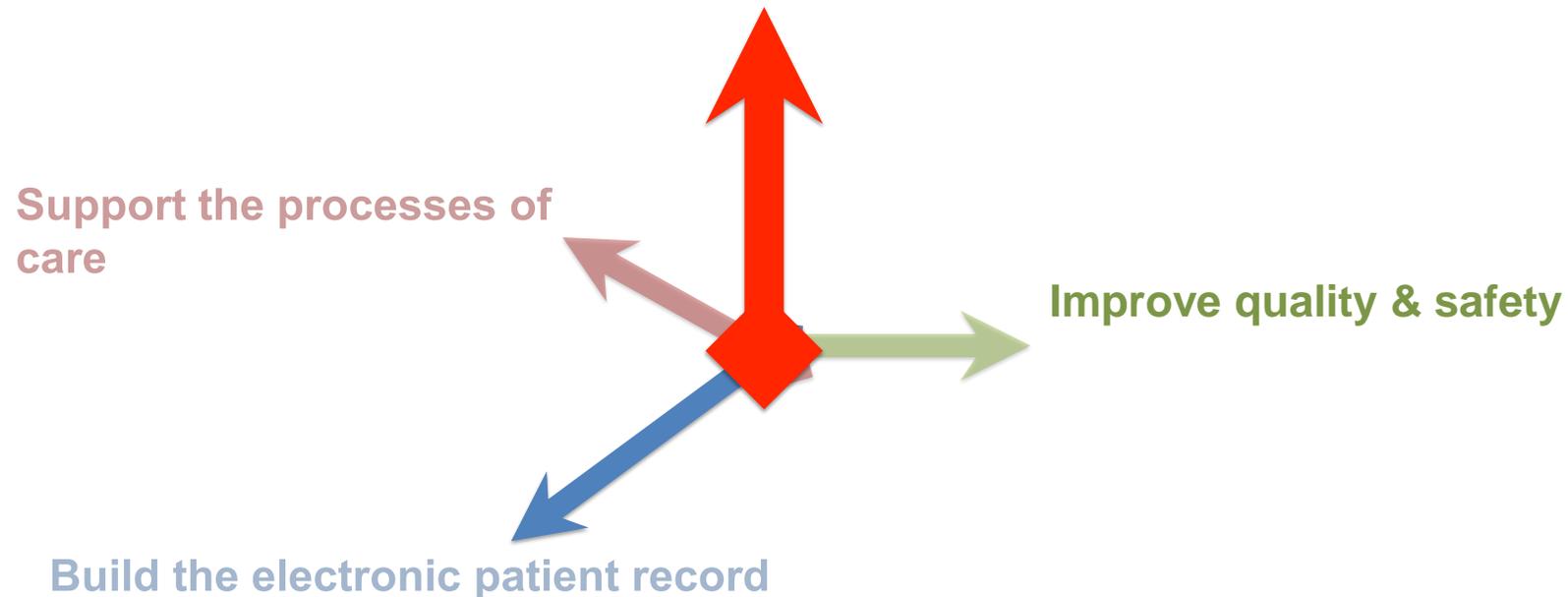


### Build the electronic patient record

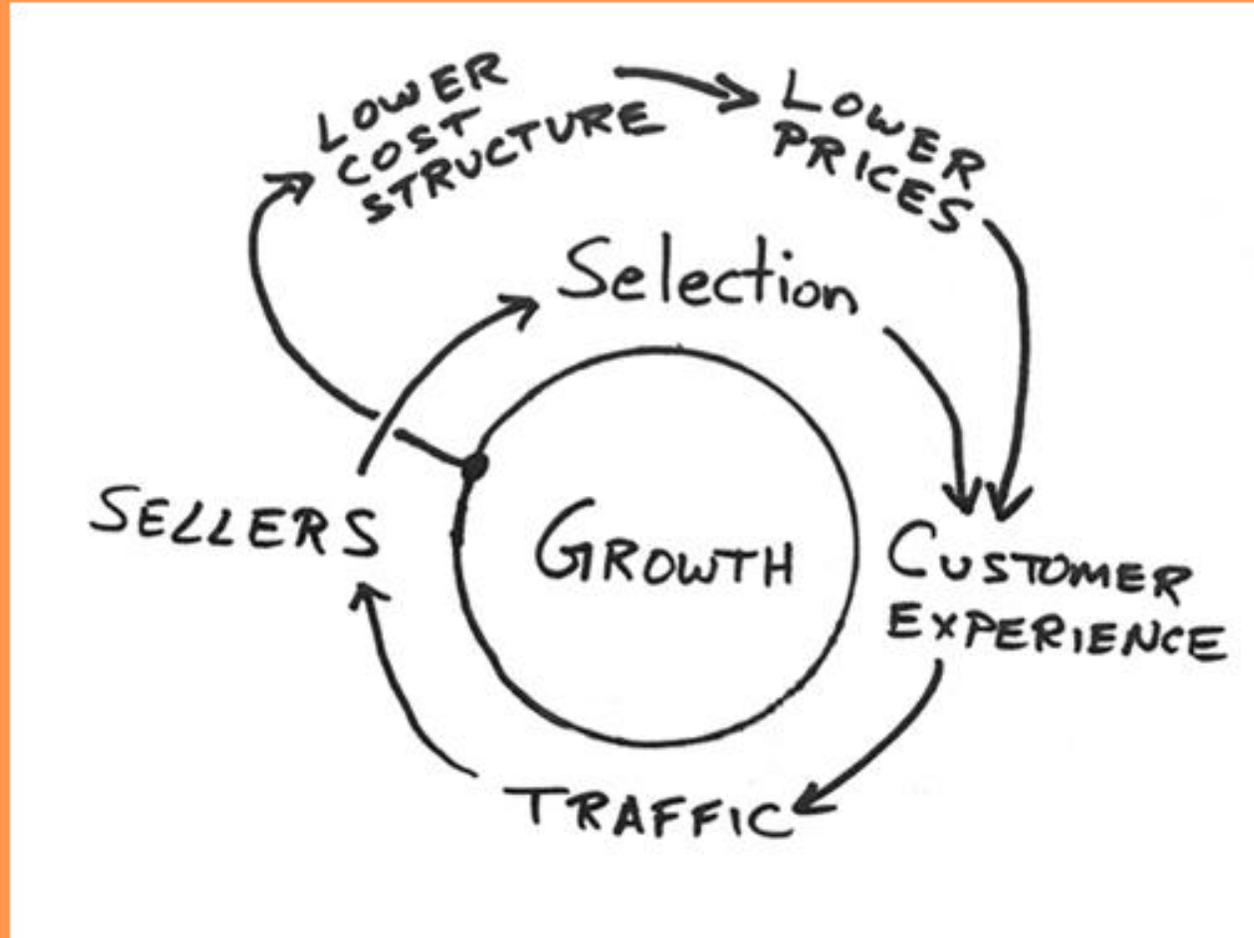
- Standardized & structured
- Comprehensive



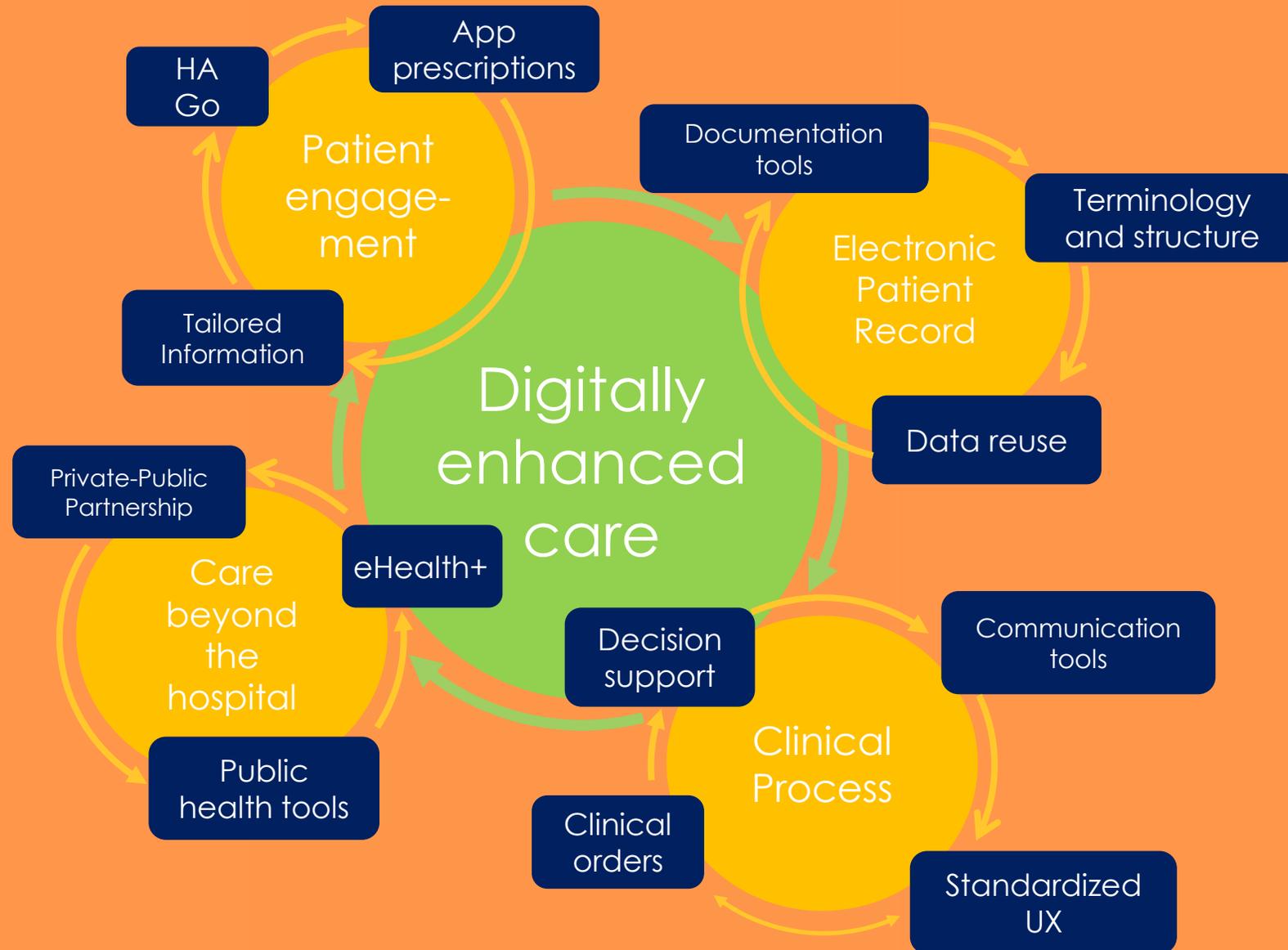
**Enable new models of service delivery**  
**Make data actionable**  
**Enhance the care experience for all**



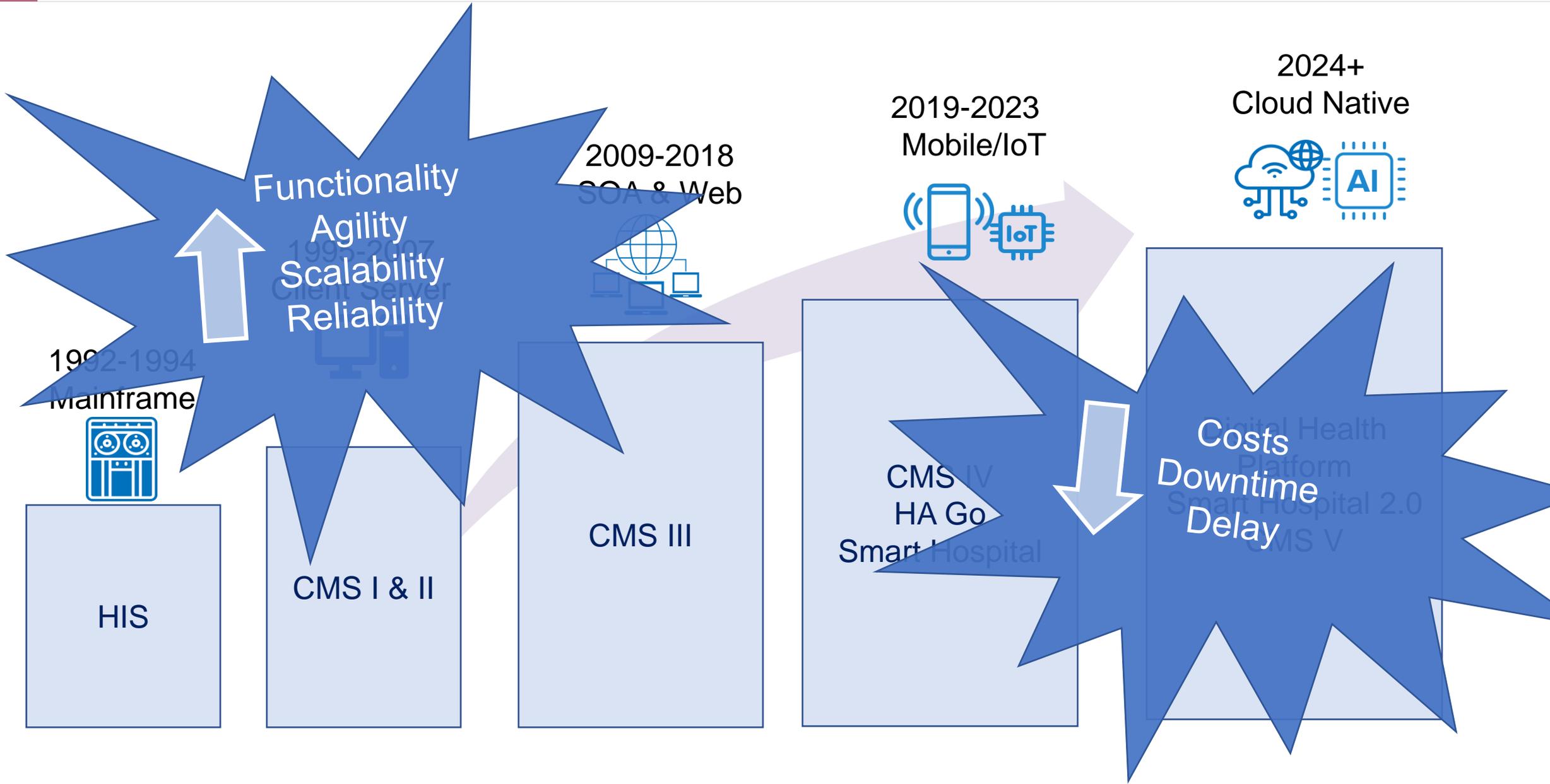
# The Flywheel



# Digital Health Platforms



# Keeping up with technology



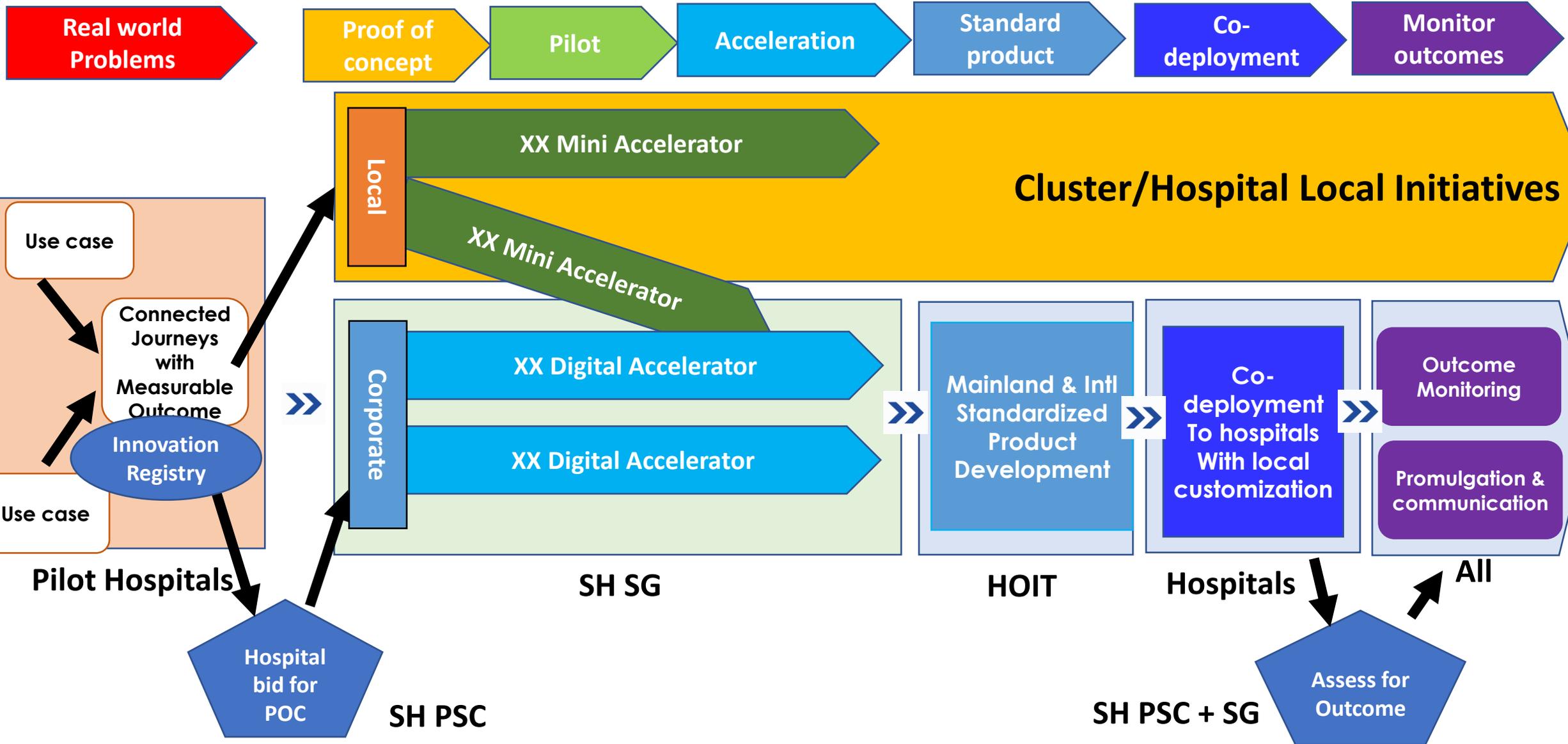
# Innovation acceleration in the HA

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- How to drive innovation?
- How to ensure meaningful innovation?
- How to achieve value at scale?

# Smart Hospital 2.0 - product pathway





## Connected Journey



- Deliver Total Experience
- Integration of people, technology and service

## Hospital Innovation



- Local wisdom, corporate value
- High tech, high touch

## Measurable Value



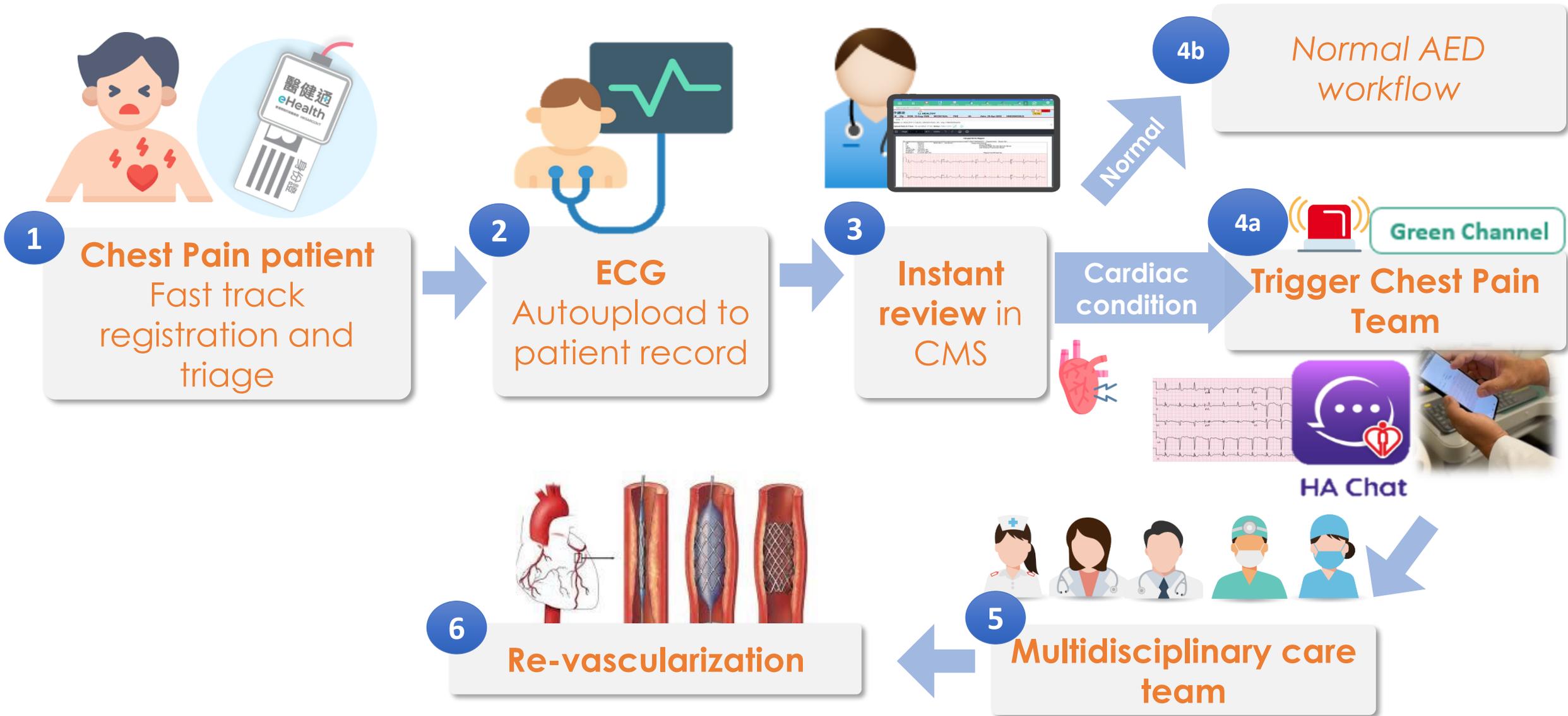
- Quantified benefit to both patients and staff
- Focus on outcome

## Intelligence Driven



- AI powered workflow
- Real time data driven actions
- Actionable Dashboards

# Chest Pain Green Channel – “door to needle time”



# Case study Hepatitis safety



360,000+ hepatitis tests per year

Autoflagged by AI

AI Hep B  
Anti HBc

AI Hep B  
HBV DNA

AI Hep C  
Anti HCV

AI Hep C  
HCV RNA

HEPATITIS B

HEPATITIS C DISEASES

李亞 LI, AH FOK

M 64y DOB: 02-Sep-1954 M366305(7) SOP SOPD0039741(T)

Discharge Prescription/OP Prescription X

Drug Name  Browse History Drug Set Standard Regimen

Prescribed Item(s)

\* ✓ 1. ETANERCEPT infusion 30mg/ml 1ml  
Intravenous : 30 mg daily for 8 weeks

All Change Remove Edit Save and Print

Upon immunosuppressive therapy

Alert if antiviral not given

M059596(4) LAW, SATISFY

**ALERT**

- (1) HLA-B\*1502 detected <sup>^</sup>  
Reported on 21-Dec-2020, UCH
- (2) Hepatitis B Positive / Carrier <sup>^</sup>  
Reported on 15-Dec-2020, PWH
- (3) HBV DNA detected <sup>^</sup>

Clinical Intervention

**CAUTION for ENBREL (ETANERCEPT) PREFILLED SYRINGE**

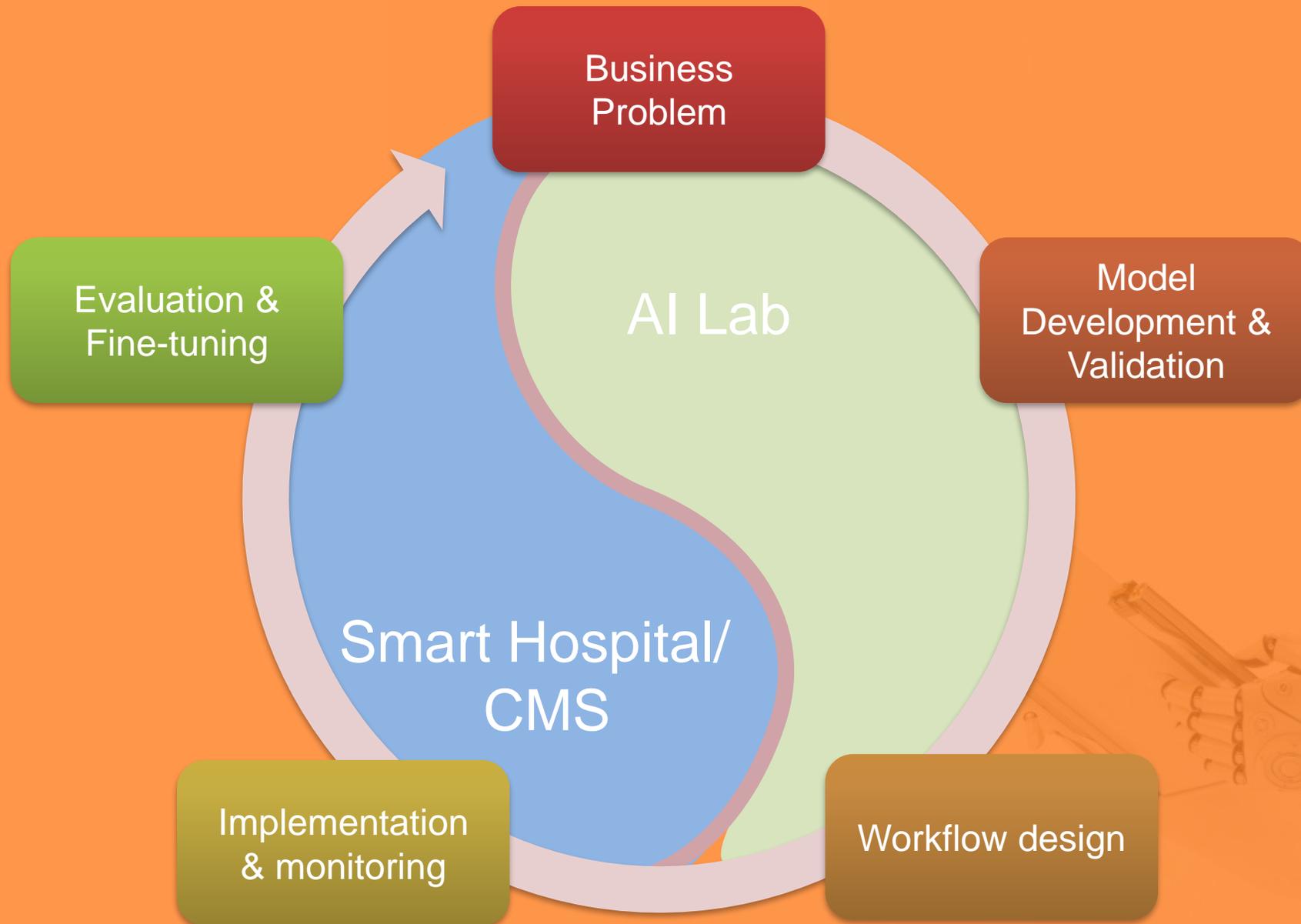
Hepatitis B Alert Checking

**HBV DNA Detected Alert Checking**  
ETANERCEPT - HBV DNA detected prediction.  
Use of Enbrel (Etanercept) prefilled syringe as immunosuppressive therapy without antiviral given may result in risk to patient.  
Please verify the latest blood result in ePR.

**Hepatitis B Positive / Carrier Alert Checking**  
ETANERCEPT - Hepatitis B Positive / Carrier / Reactive reported.  
Use of Enbrel (Etanercept) prefilled syringe as immunosuppressive therapy without antiviral given may result in risk to patient.

Override alert Edit prescription

**Disclaimer:**  
Drug is subjected to Hepatitis B Checking against other medication(s) on the current prescription and the on hand drug prescribed at all hospitals.



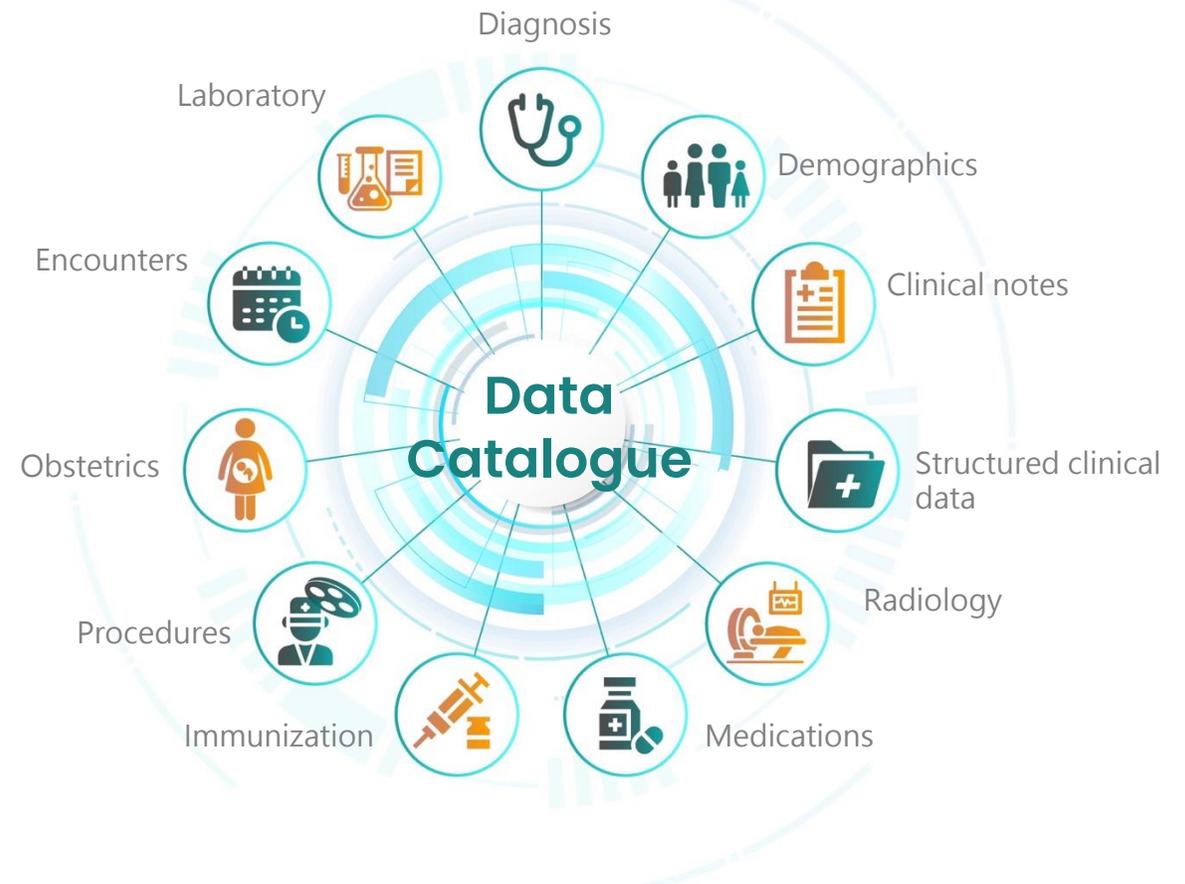


## Impactful Big Data Research

Collaborating  
with local  
Universities  
since 2019

**60+**  
R&D projects

## 30+ years High quality clinical data



# EHealth Plus Digital



- Established 2024
- Three major product areas
  - IT Solutions
  - Health data services
  - Cybersecurity and health IT consulting



# Any Questions?

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EH PLUS DIGITAL  
醫弘數科

