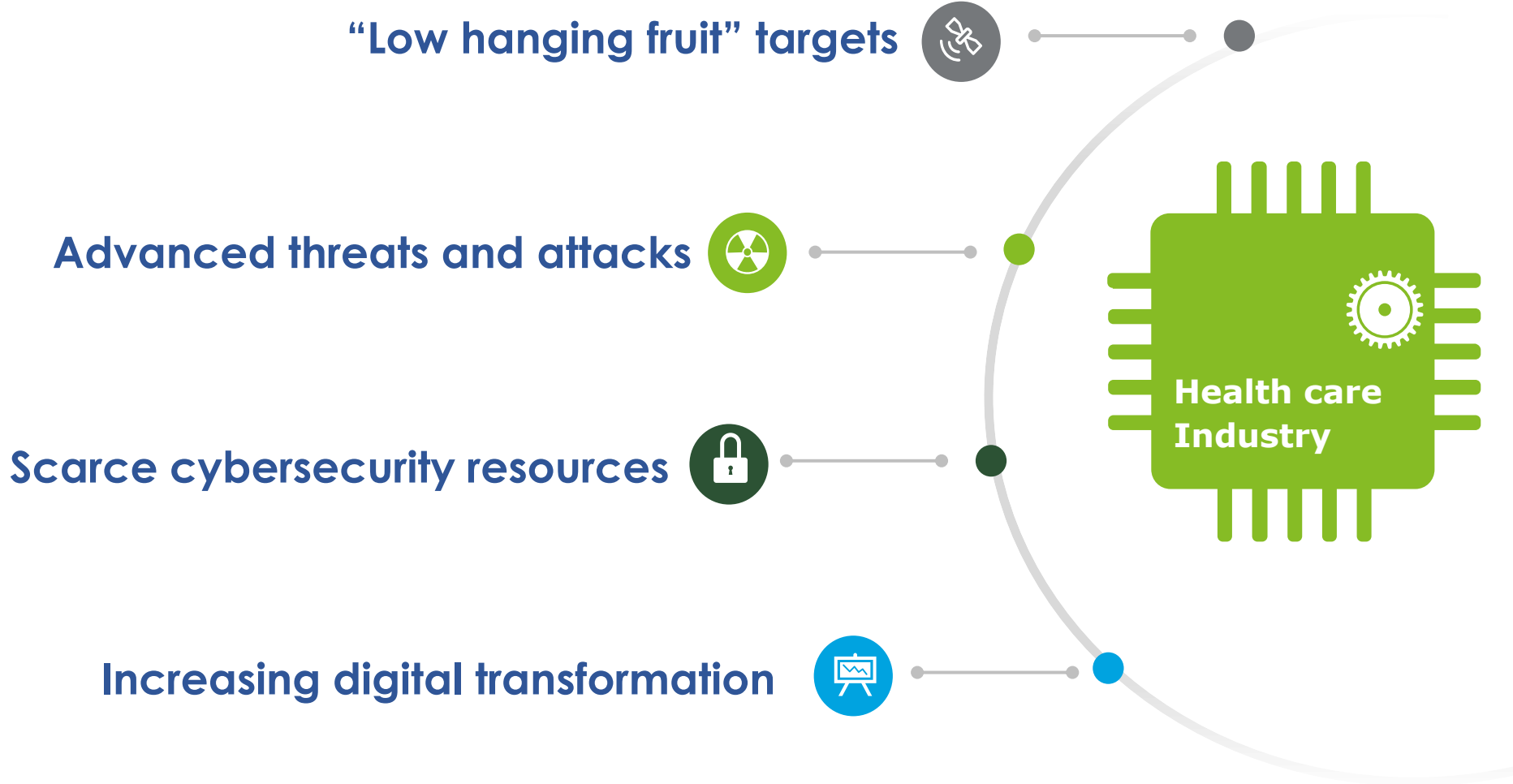# Securing the Health Infrastructure

Fuller Yu, CISO,
Hospital Authority Hong Kong
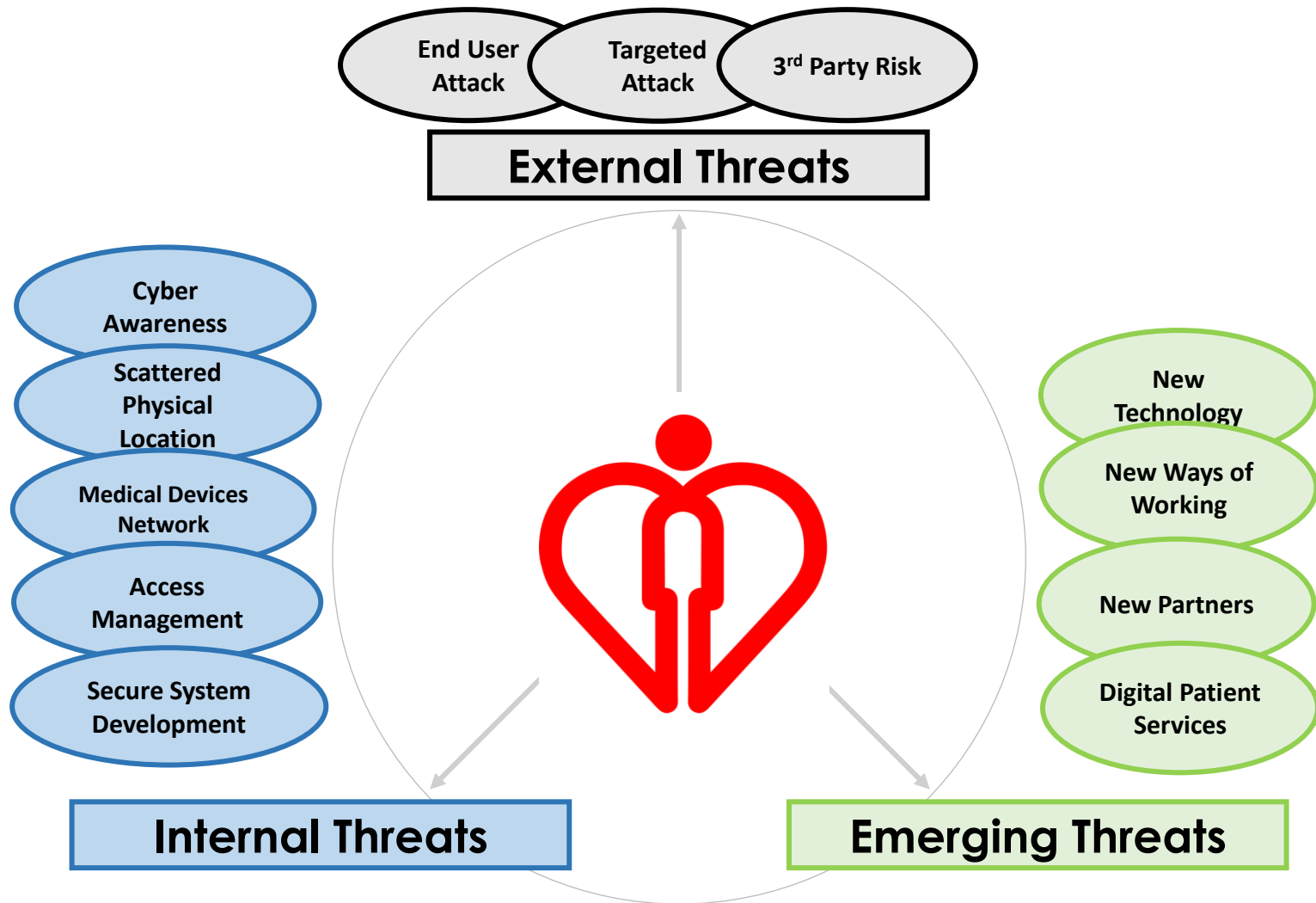
October 2019

IT&HI

Cybersecurity risk in Healthcare is emerging

"Low hanging fruit" targets

Advanced threats and attacks

Scarce cybersecurity resources

Increasing digital transformation

Health care Industry

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HA's Cyber Landscape
Overview of External – Emerging – Internal Threats

End User Attack

Targeted Attack

3rd Party Risk

External Threats

Cyber Awareness

Scattered Physical Location

Medical Devices Network

Access Management

Secure System Development

New Technology

New Ways of Working

New Partners

Digital Patient Services

Internal Threats

Emerging Threats

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An urgent call to step up cyber resilience
Current and present dangers …

Capabilities for continuous 24x7 detection and response

Security measures need to be enhanced and integrated for emerging technologies.

CULTURE & AWARENESS → **DETECTION & RESPONSE** → **24x7 TRANSACTIONAL BUSINESS** → **DIGITAL TRANSFORMATION**
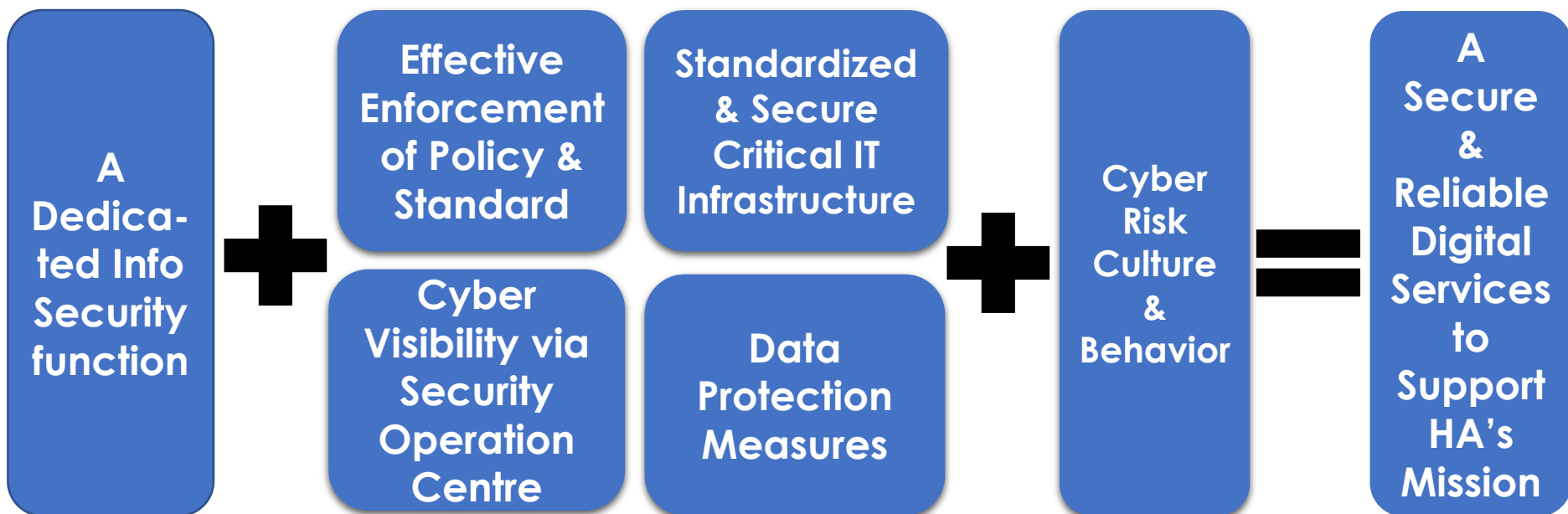
Enhancement of user awareness around cyber hygiene required around phishing threats.

Protection of sensitive information to ensure its availability and integrity.

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HA's Cybersecurity Framework

TECHNOLOGY

Prevention

Detection

Response

PROCESS

Centralized

Standardized

Closed Loop

PEOPLE

Culture

Awareness

All Staff Engaged

ORGANIZATION

Dedicated Function

Operating Model

External Collaboration

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HA's Cybersecurity Strategy

A Dedica-ted Info Security function

+

Effective Enforcement of Policy & Standard

Cyber Visibility via Security Operation Centre

Standardized & Secure Critical IT Infrastructure

Data Protection Measures

+

Cyber Risk Culture & Behavior

=

A Secure & Reliable Digital Services to Support HA's Mission

Organization + Process & Technology + Culture = Success

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THANK YOU