

Panel discussion

# Digital Technology for Aging Society

AI & Policy for Healthcare

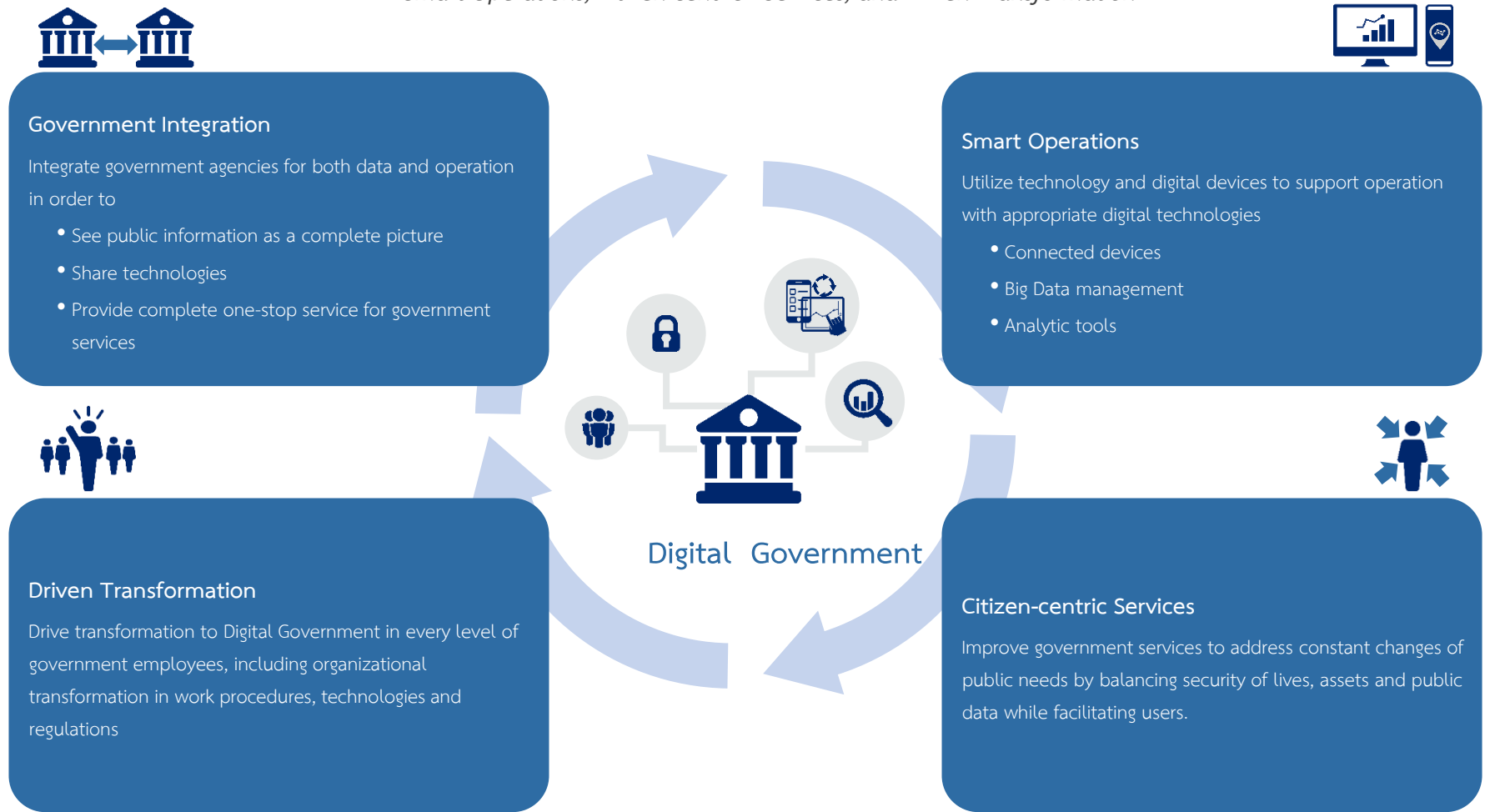
Mr. Sak Segkhoonthod

President of Digital Government Development Agency  
(Public Organization) (DGA)



# Vision of Digital Government

*Enhance Thai Government to become Digital Government with Government Integration, Smart Operations, Citizen-centric Services, and Driven Transformation*



# (Draft) Thailand Digital Government Development Plan 2017-2021



## Government Integration

Integrating data and operation among agencies



## Smart Operations

Using technology and digital devices to support operation with suitable technology usage



## Citizen-centric Services

Improving Government services to serve changing public demand



## Driven Transformation

Driving transformation to Digital Government in every level of Government officers

## Elevating Citizen's Quality of Life



Public Welfare



Labour



Education



Health



## Enhancing the Capacity of the Business Sector's Competitiveness



Agriculture



Tourism



Investment



Trade (Imports & Exports)



SMEs



Tax and Revenue



Transportation



Public Utility



## Increasing National Security and Public Safety



Public Safety



Border Management



Natural Disaster



Crisis Management



## Improving Government Efficiency



Finance



Asset Management



Procurement



Human Resource and Payroll



## Developing the Capacity to Support Government Services



Data Integration



Information



Digital Government Infrastructure



Data Authentication and Verification



Feedback

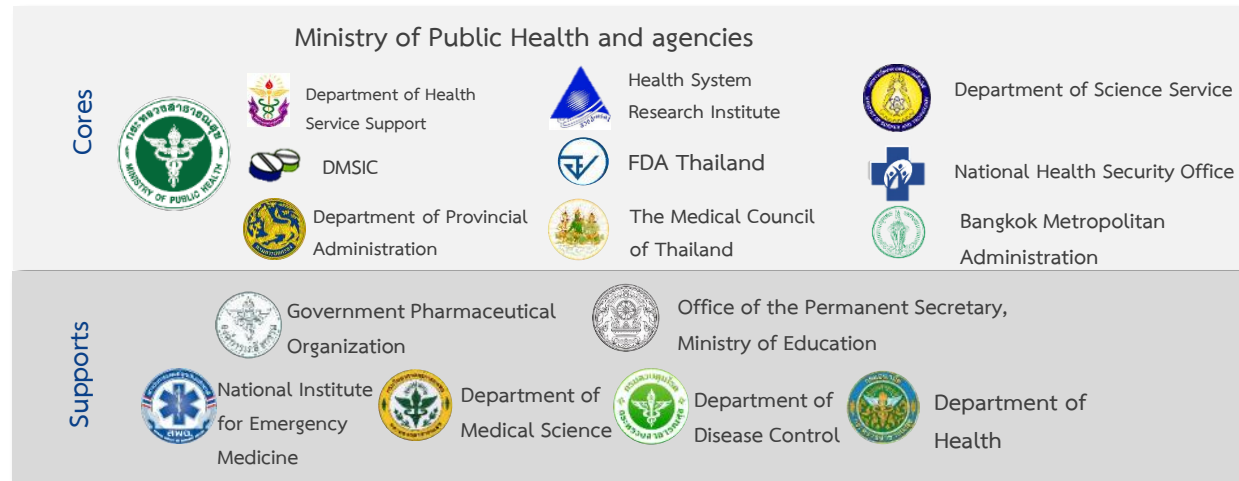


Digital Government Capacity Building

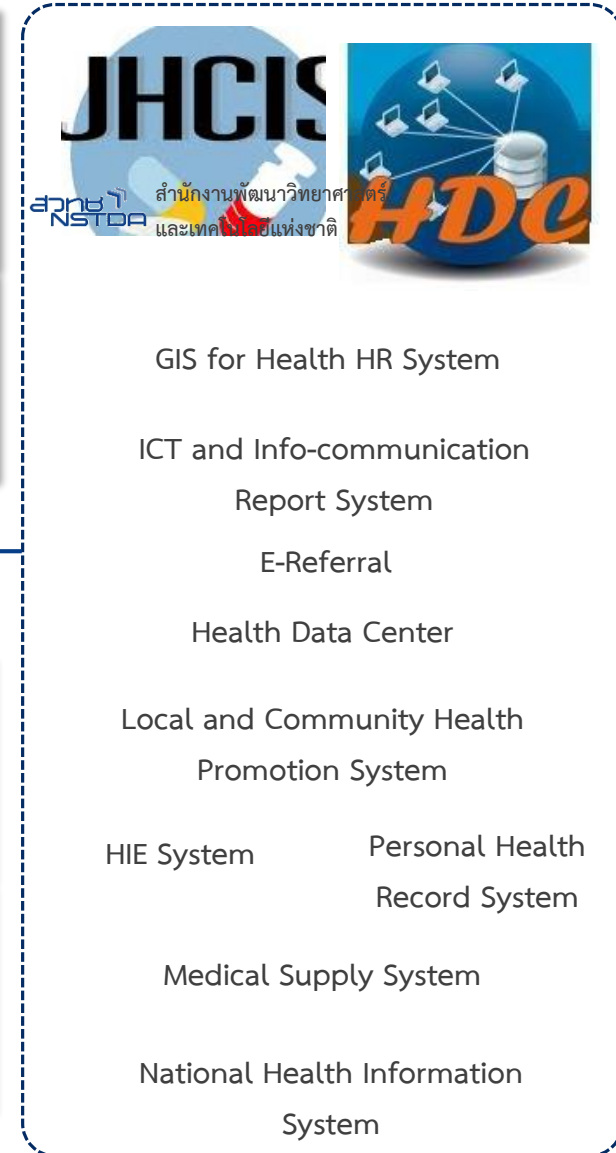
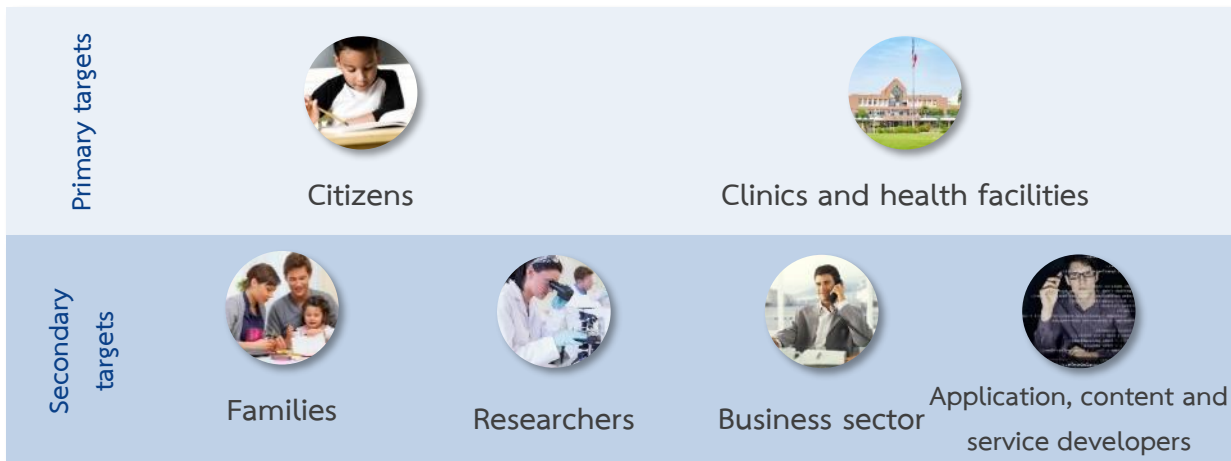


\* Relevant laws, regulation and measure amendment is operated under Strategy 6 of Thailand Digital Economy and Society Development Plan

# Stakeholders



Current  
healthcare services



# Strategic Technology Trends for Digital Government



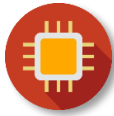
## Virtual Reality / Augmented Reality

Application of Virtual Reality (VR) and Augmented Reality (AR) technologies in simulating environment or situations for the purpose of public safety management, telemedicine, and new formats of education and tourism



## Advanced Geographic Information System

Application of Advanced Geographic Information System technology in geographical data management, as well as its applications in management of agricultural resources, transportation system and other areas



## Big Data

Processing big data and make forecasts and estimations in business environment, using Internet of Things (IoT) and Smart Machine technologies to perform real time analysis and responses with users



## Open Any Data

Disclose informative data to users through refurbishment of database and website to allow wider public access and promote linkage of those disclosed data with other entities



## Smart Machine / Artificial Intelligence

Application of Smart Machine technology to enable management and responses of automated services - the Smart Machine system will gradually evolve and consequently be able to evaluate and address problems throughout the service supply chain



## Cloud Computing

Application of Cloud Computing technology for data storage to reduce complication in system installation, reduce system maintenance cost, and save network establishment investment



## Cyber Security

Addressing cyber security issues by setting cyber security standards, revising related regulations to make them more updated and flexible, as well as reforming the mindsets in handling cyber security issues



## Internet of Things

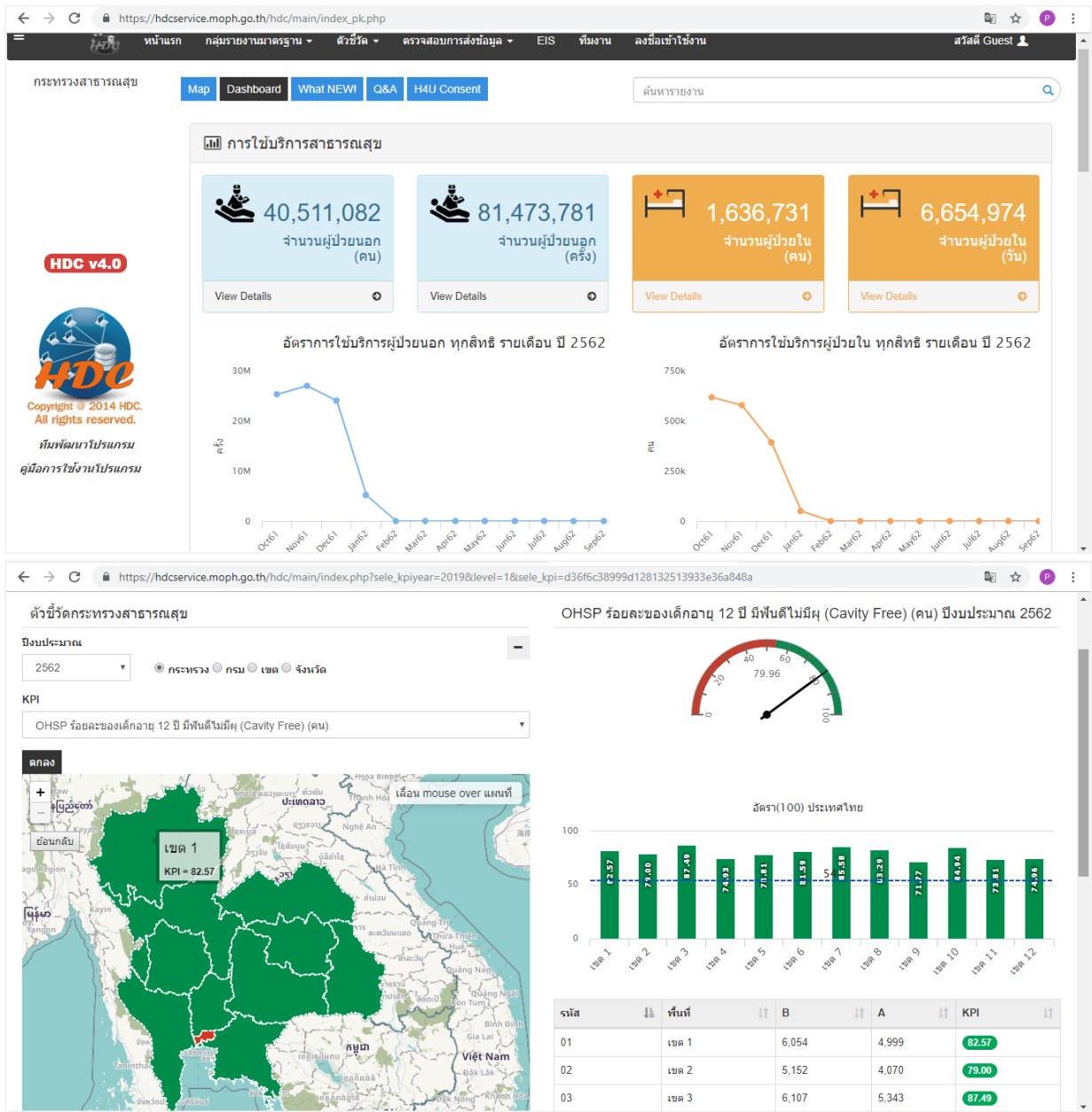
Using the Internet of Things (IoT) technology to facilitate the transformation of government services into digital formats, and at the same time, the IoT technology can also support government's works in communication, utilization of mobile technology, analyzing big data, and cooperation with private business sector



## Block Chain / Distributed Ledger Technology

Application of Block Chain technology in data storage and utilization of the network for the purpose of verification and reduction of intermediaries under reliable security environment

# Health Data Center (HDC)





# DoctorAsks

Research Institute for Languages and Cultures of Asia, in cooperation with DGA, developed a tool for promoting common understanding among ASEAN members and piloted “DoctorAsks”, a medical communication application.



# Rama Appointment

Rama Appointment is an assistive application used to access Ramathibodi Hospital's services, including appointment schedule and management. The application provides an reachable channel to customers, advances perception with the public and increases patient satisfactory



Download

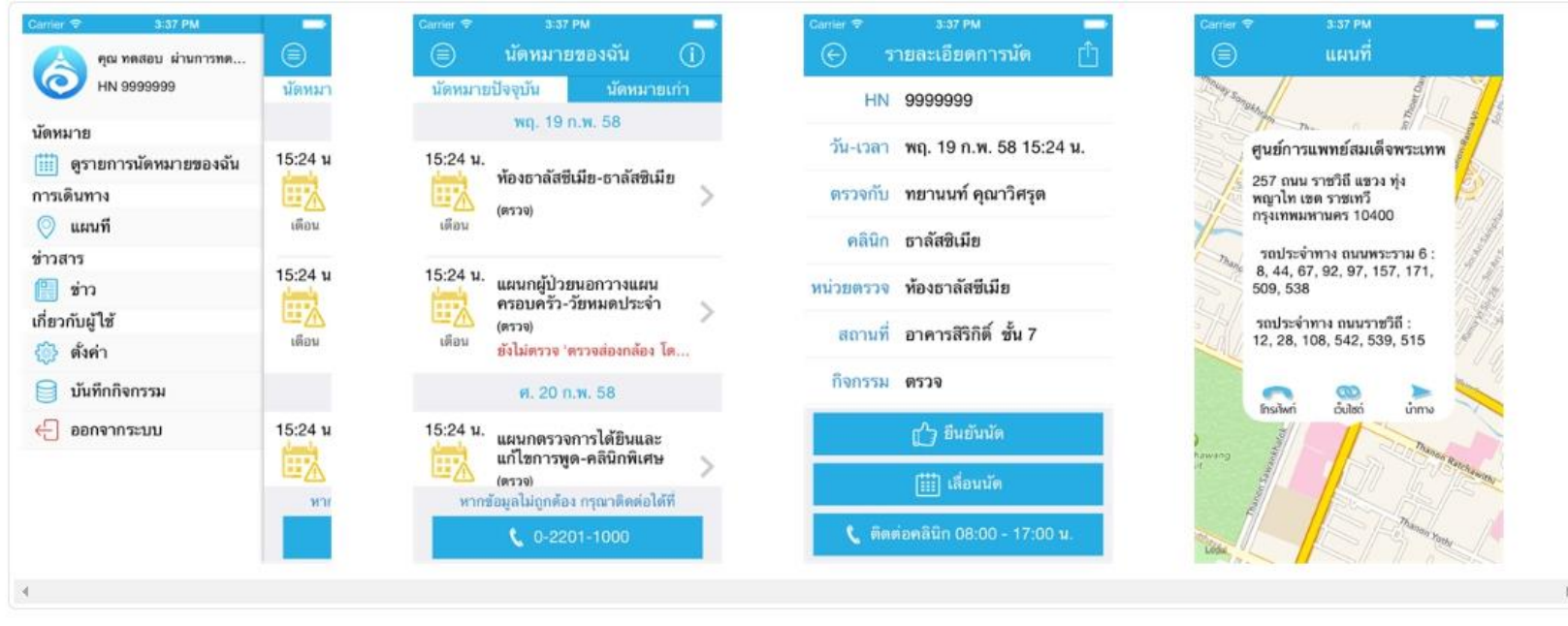
อุปกรณ์อื่น :

หมวดหมู่: สุขภาพ และการ  
สาธารณสุข  
อัตรา: 20 มี.ย. 2561  
เวอร์ชัน: 2.0.2  
ภาษา: English, Thai  
เจ้าของแอป: สำนักงาน  
พัฒนาจุฬาลงกรณ์ (องค์การ  
มหาชน)  
ผู้พัฒนา: ผู้พัฒนา  
แนะนำสำหรับ:  
อายุ: 4+  
ความต้องการ: เข้ากันได้  
กับ iPhone, iPod, iPad  
ต้องการ iOS 7.0.0 หรือใหม่กว่า

แอปนี้พัฒนาโดย: สำนักงาน  
พัฒนาจุฬาลงกรณ์  
(องค์การมหาชน)

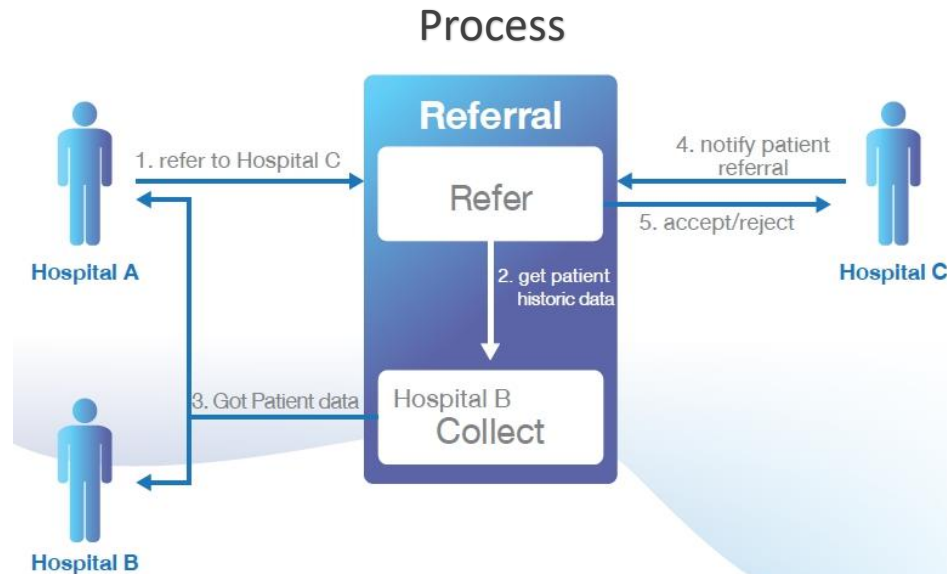
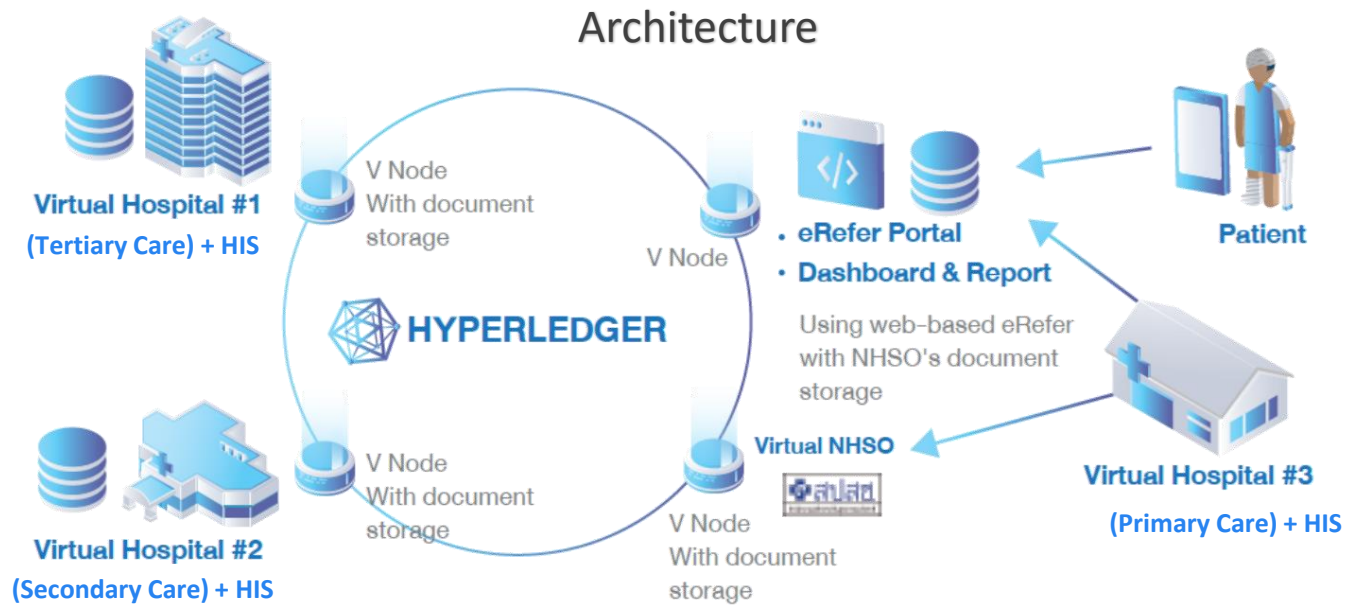
## Rama Appointment

### รูปภาพ





# e-Referral and Blockchain



# BlockChain for Government Services

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<https://www.dga.or.th/th/profile/2128/>





2020 - 2024



สถาบันวิจัยระบบสาธารณสุข



กรมวิทยาศาสตร์การแพทย์  
Department of Medical Sciences



สวทช.  
NSTDA

TCELS  
ศูนย์ความเป็นเลิศด้านวิทยาศาสตร์และเทคโนโลยี  
Thailand Center of Excellence for Life Sciences and Technology

สปสช.  
สำนักงานหลักประกันสุขภาพแห่งชาติ



# Genomics Thailand = Future of Medicine

- Genomics knowledge and technology
- Whole genome sequencing



- **Shifting** medical paradigm
  - Diagnosis
  - Prevention
  - Treatment



Parenthood planning



- Congenital Anomaly detection
- Genomic disease diagnosis and treatment



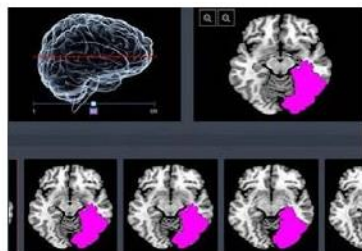
Diagnosis-Prevention-Treatment

- Infectious diseases
- Severe adverse reaction



Diagnosis-Prevention-Treatment

- Cancer
- Non-communicable diseases



# Thank you

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[contact@dga.or.th](mailto:contact@dga.or.th)



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