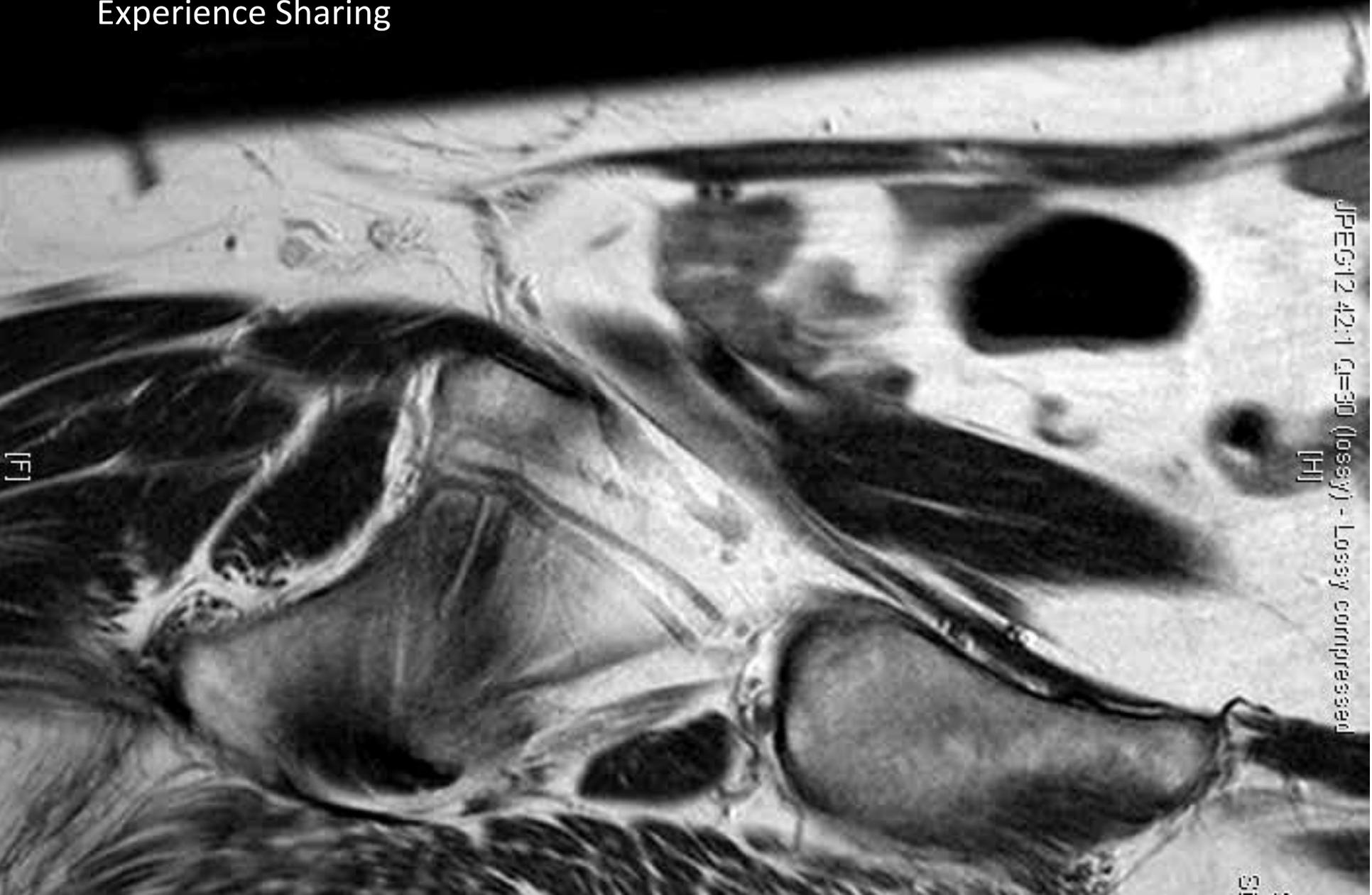
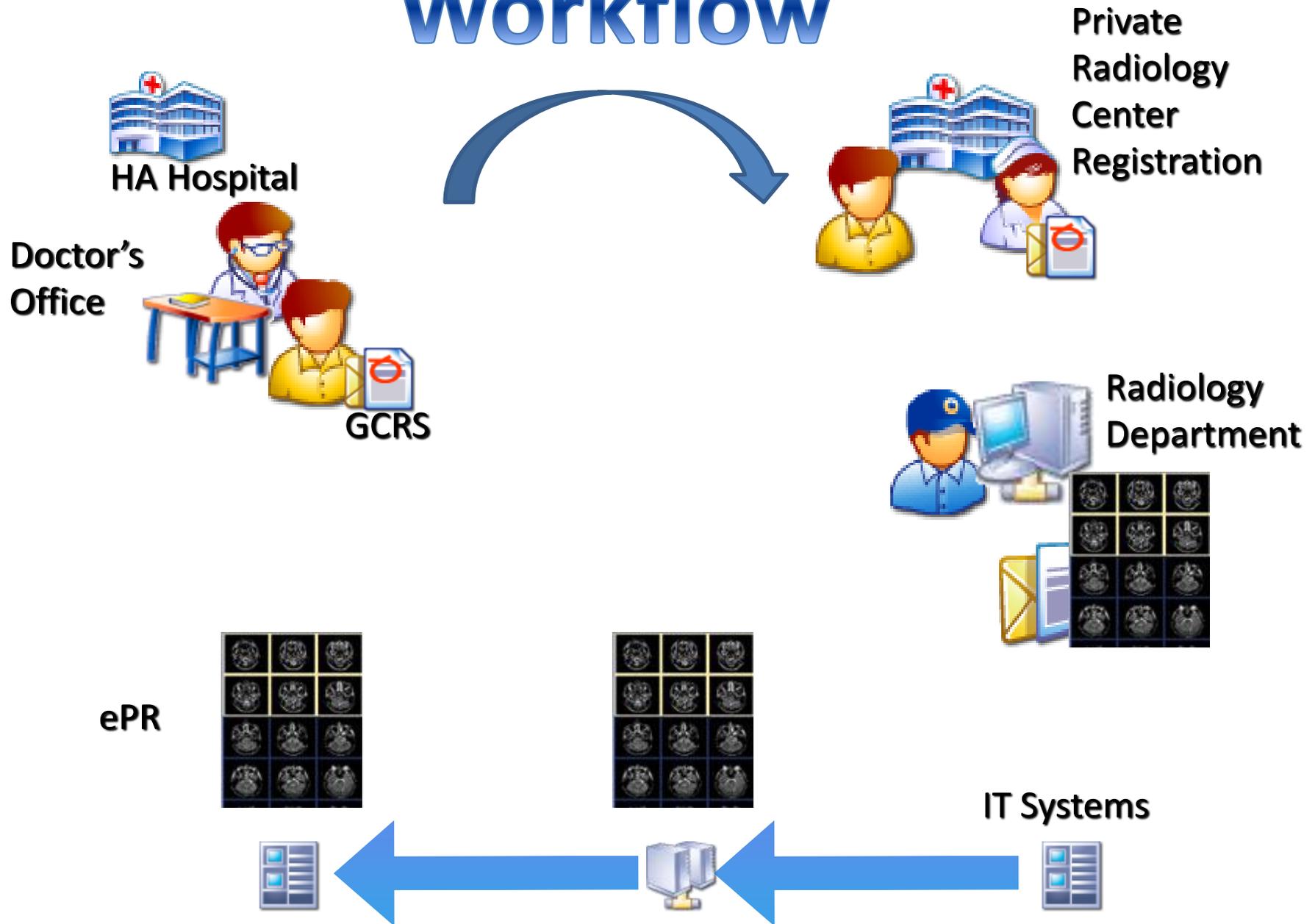


# Radiological Image Sharing in Hong Kong across the Public-Private Interface

## Experience Sharing



# Workflow



# Private Radiology order entry

The screenshot shows a web application interface for Private Radiology order entry. The main window is titled "Add Ix" and features a search bar and a list of disciplines. The "By Discipline" dropdown is set to "Private (Non-HA)". The search results are displayed in a table format, categorized by region: Hong Kong, Kowloon, and New Territories. Each region lists "Private Hospital" and "Private Centre" with columns for Address, Telephone No., Fax No., and Approximate Price Range.

**Search Results: List of Private Hospitals and Centres Providing US Scan**

設有超聲波掃描的私營醫院及中心一覽表  
 Approximate Price Range in Private Hospitals 私營醫院大約收費 (\$HK): 440 - 3692  
 Approximate Price Range in Private Centres 私營中心大約收費 (\$HK): 318 - 3696  
 (List in Alphabetical Order)

Hong Kong 港島					
Private Hospital 私營醫院	Address 地址	Telephone No. 電話號碼	Fax No. 傳真號碼	Approximate Price Range 大約收費(\$HK)	
Private Centre 私營中心	Address 地址	Telephone No. 電話號碼	Fax No. 傳真號碼	Approximate Price Range 大約收費(\$HK)	
Kowloon 九龍					
Private Hospital 私營醫院	Address 地址	Telephone No. 電話號碼	Fax No. 傳真號碼	Approximate Price Range 大約收費(\$HK)	
Private Centre 私營中心	Address 地址	Telephone No. 電話號碼	Fax No. 傳真號碼	Approximate Price Range 大約收費(\$HK)	
New Territories 新界					
Private Hospital 私營醫院	Address 地址	Telephone No. 電話號碼	Fax No. 傳真號碼	Approximate Price Range 大約收費(\$HK)	
Private Centre 私營中心	Address 地址	Telephone No. 電話號碼	Fax No. 傳真號碼	Approximate Price Range 大約收費(\$HK)	

# ePR & image browser

Centricity Enterprise Web V3.0 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://localhost/ami/html/> Go Links >>

**CHAN, AH FOK**  
ID: M2949445

Head\*1HeadNeuro (A...  
28/12/2009 9:26:07 2 series  
Topogram 0.6 T20s 1 image

Brain 5mm 576 images

[A] [P]

JPEG12 13:1 Q=90 (lossy) - idsLossyCompressed  
[H]

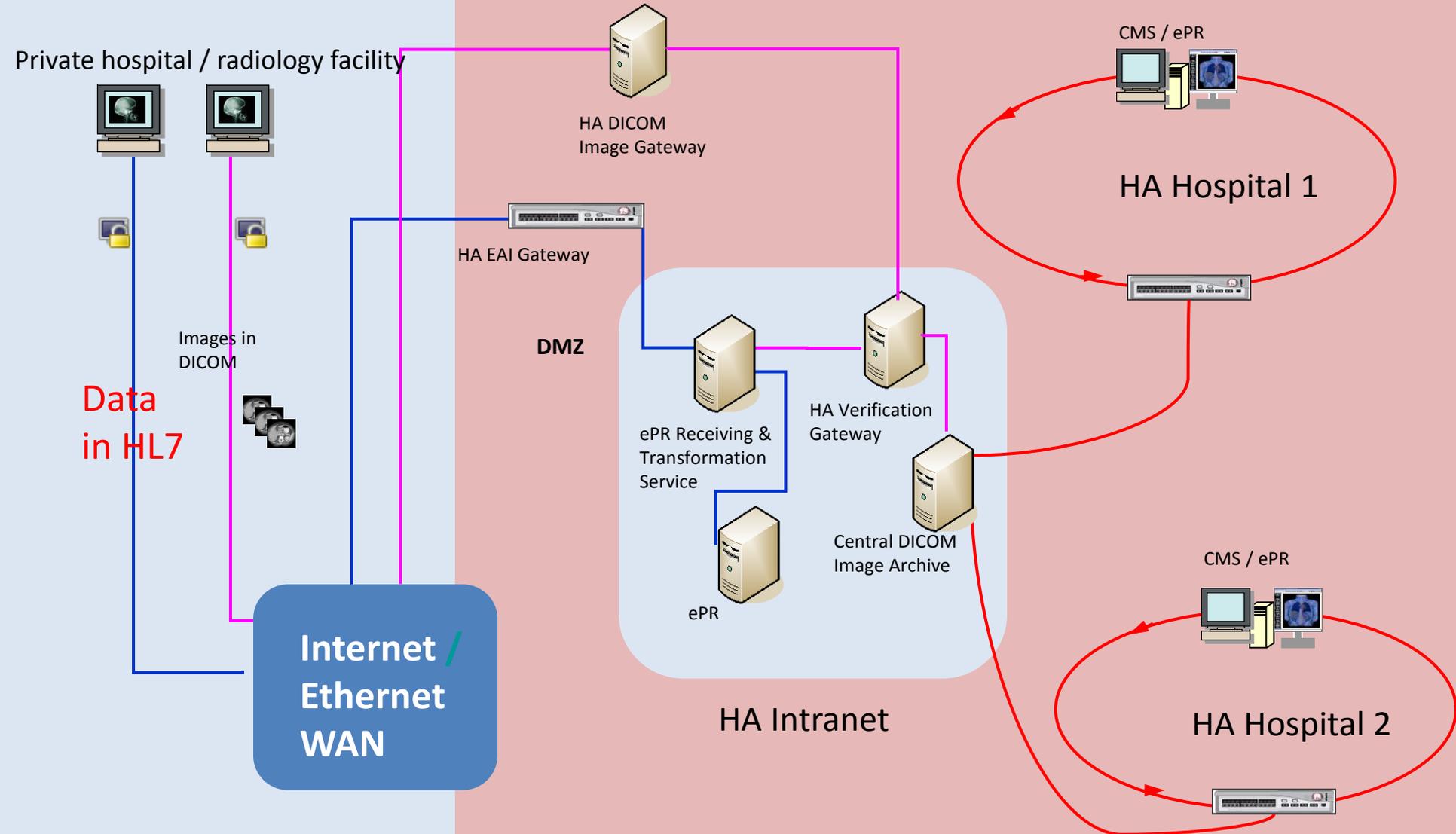
CHAN, AH FOK  
Study Date: 28/12/2009  
Study Time: 9:26:07  
MRN: M2949445

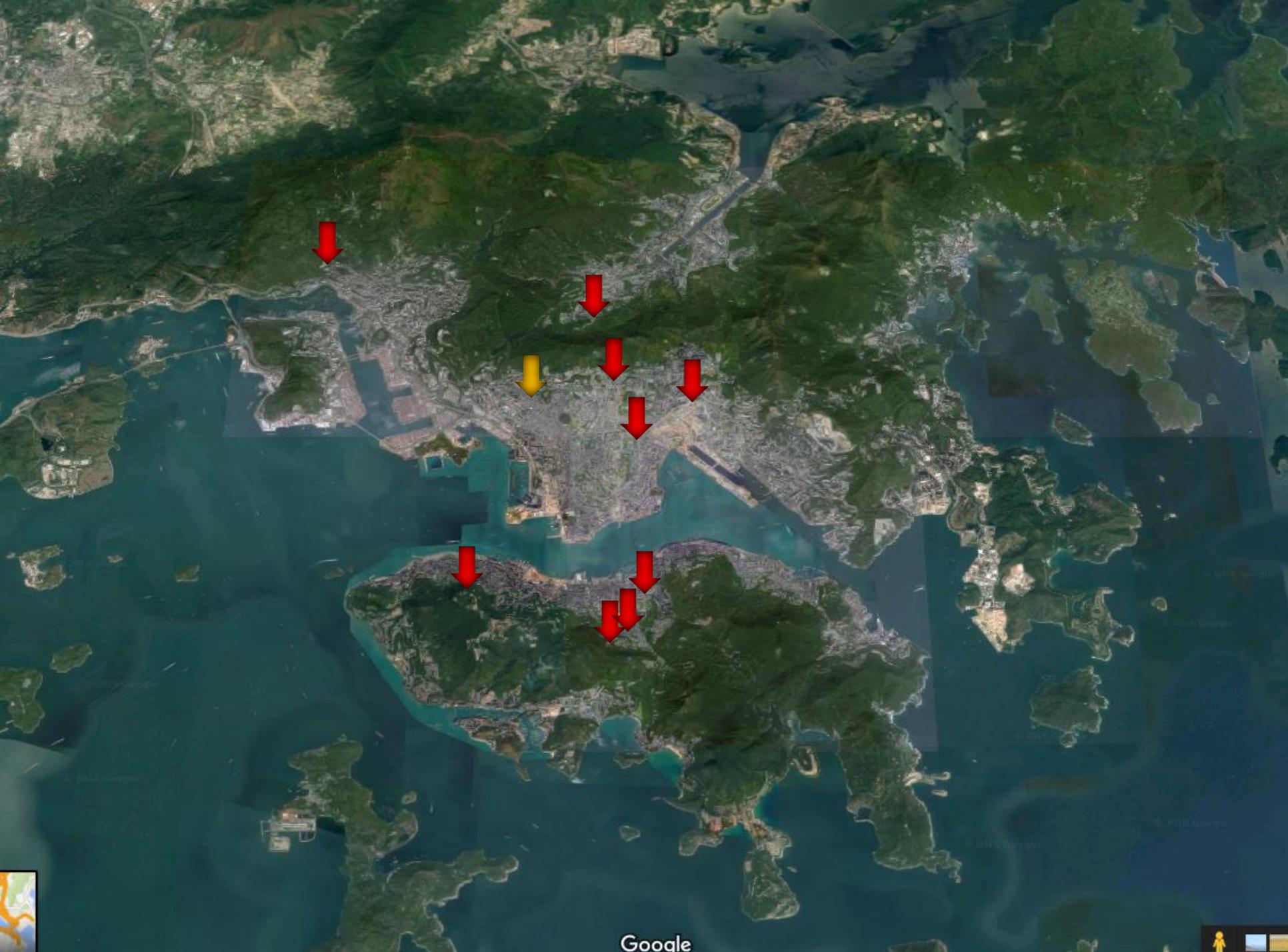
Topogram 0.6 T20s [F] C50 W500

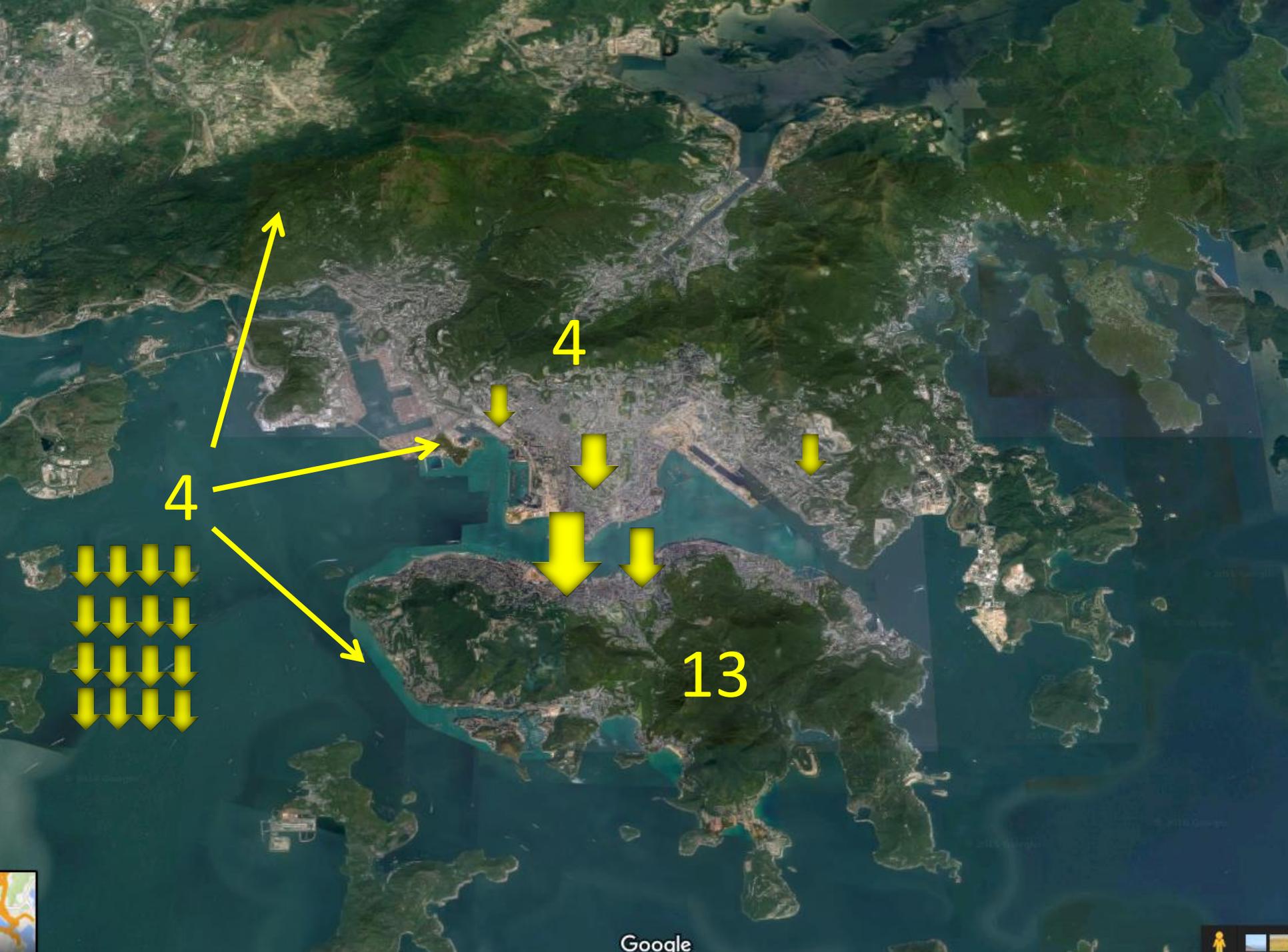
Key image notes



# System Workflow & Architecture





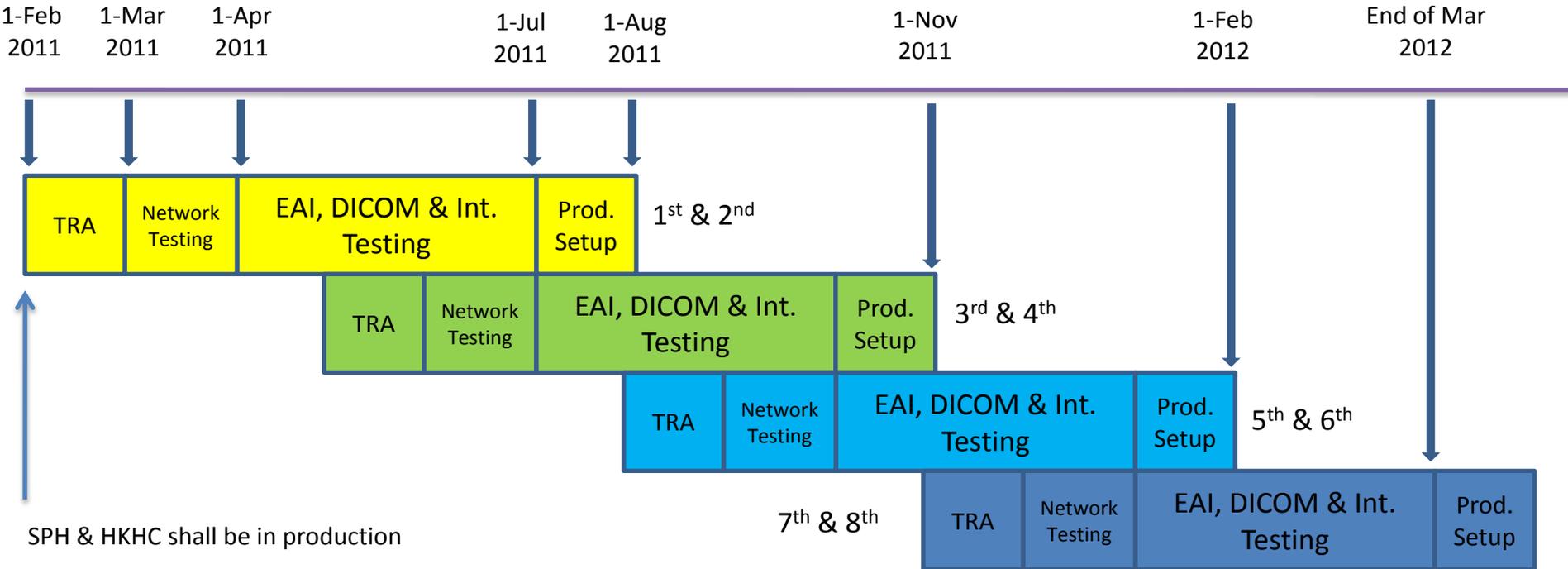


4

4

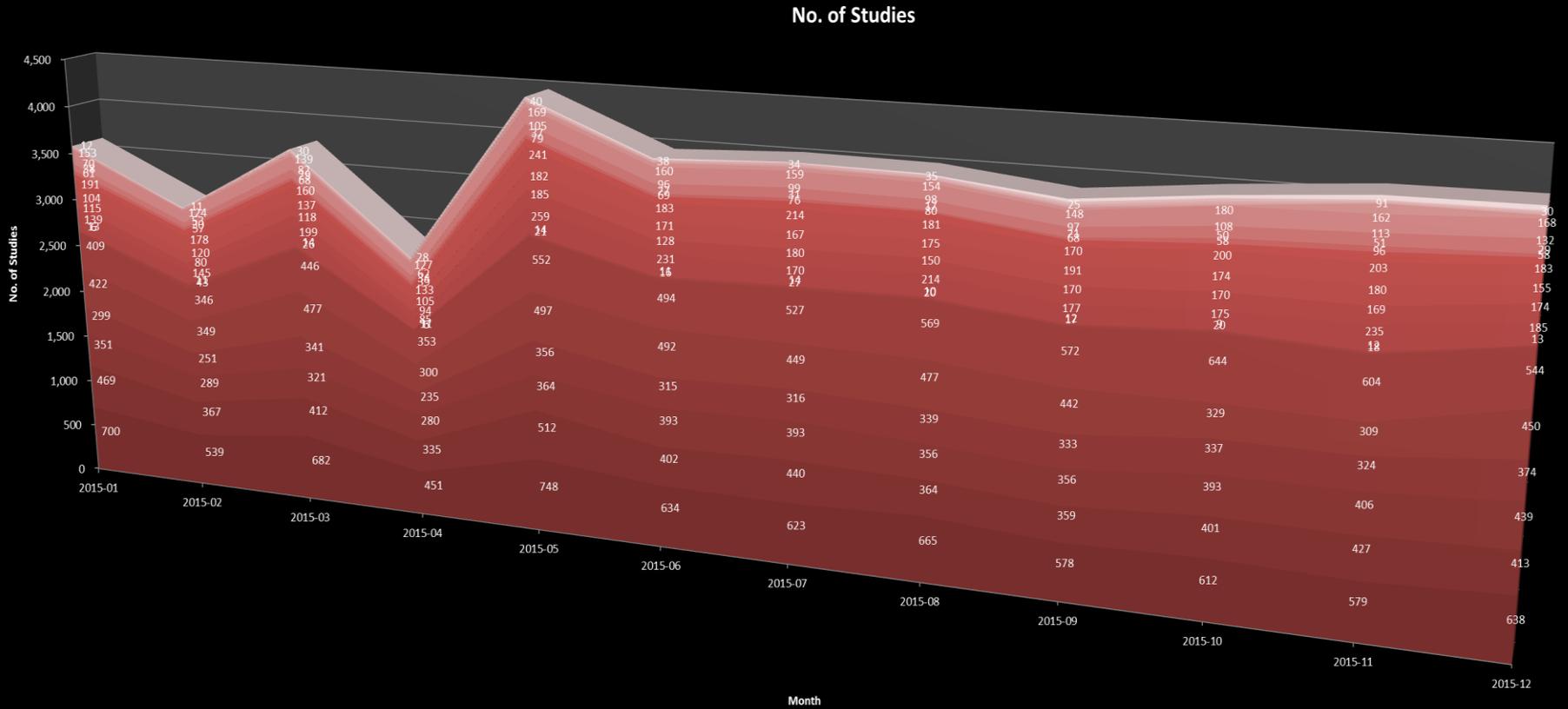
13

# Progress and plan from 2011/12

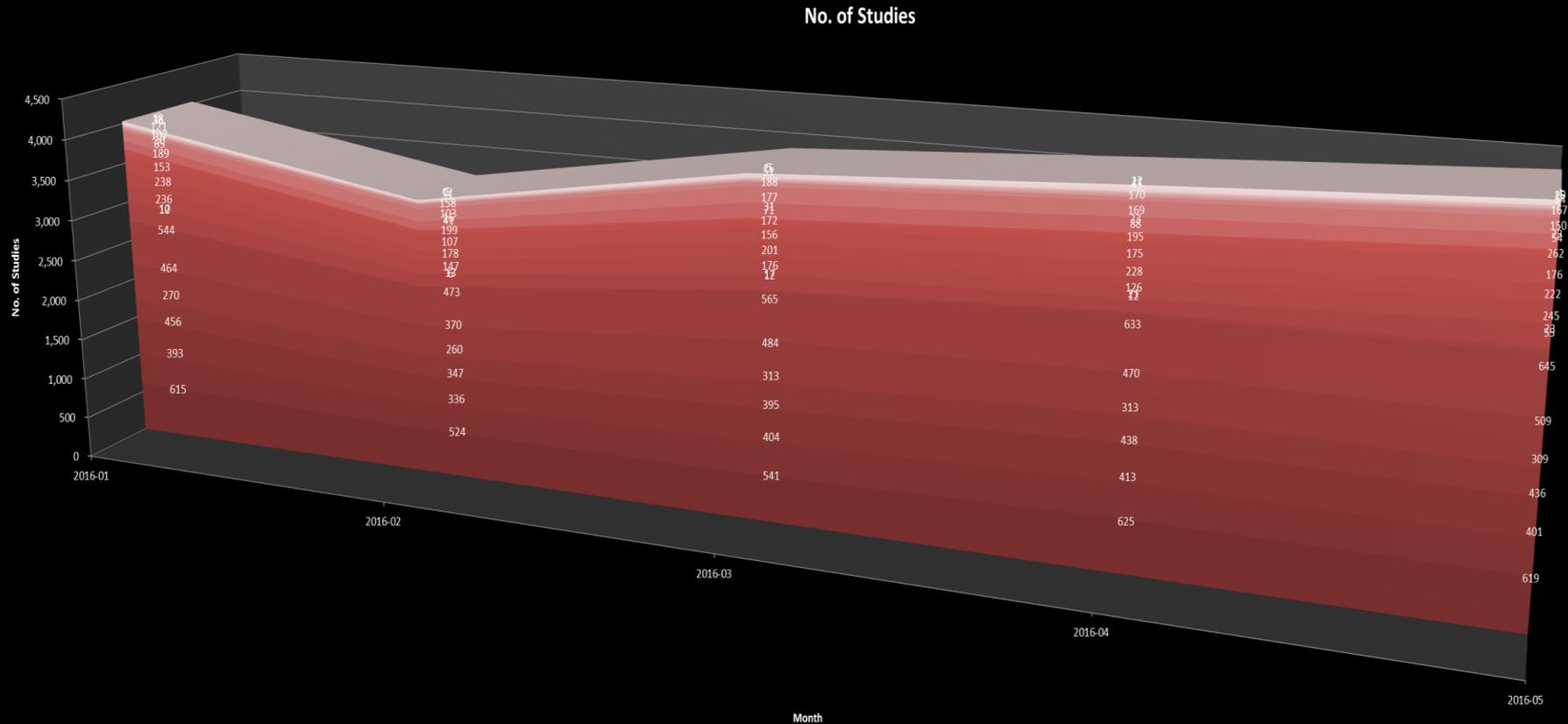


TRA – Technical Readiness Assessment

# Monthly Utilization in 2015

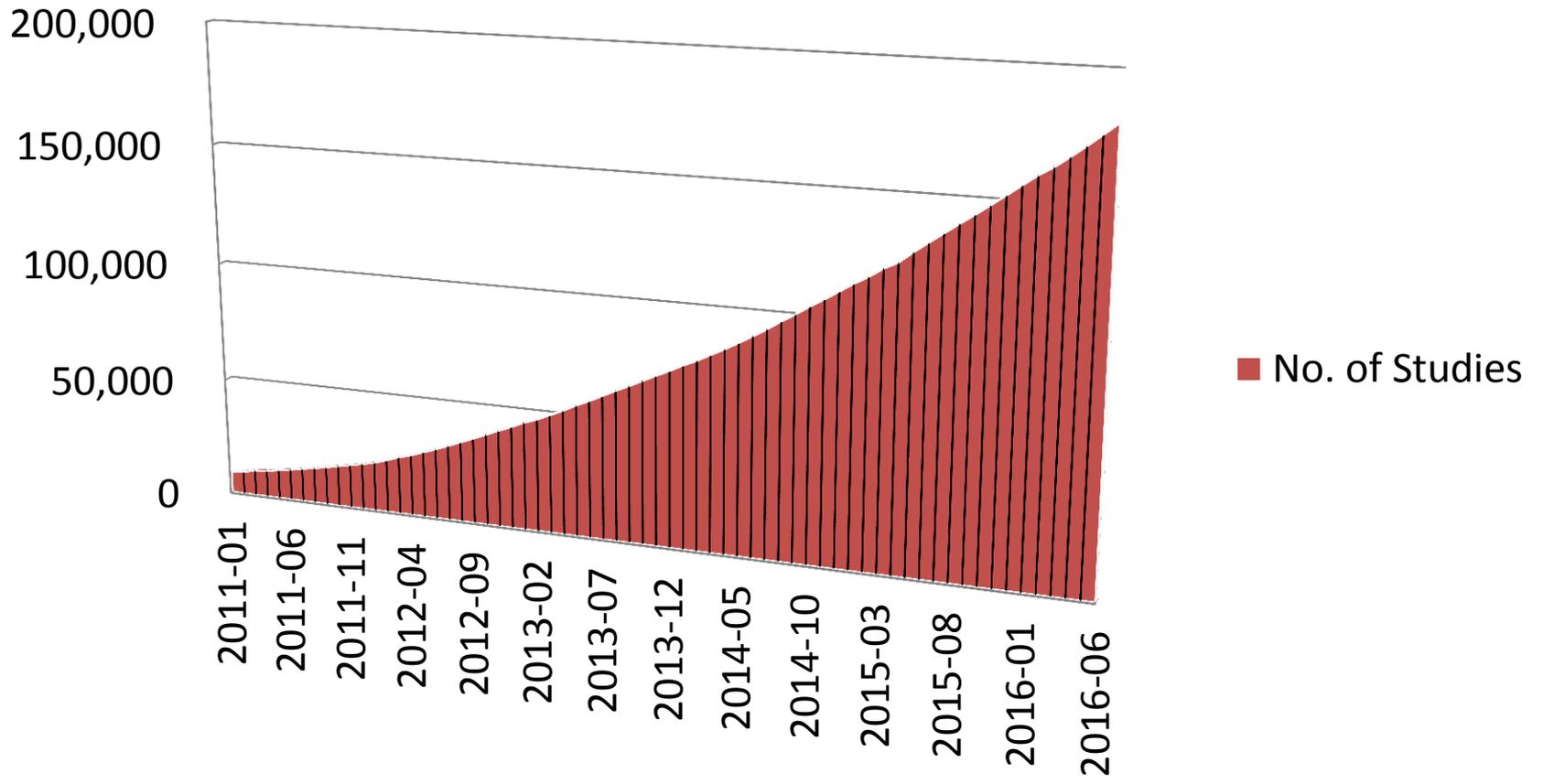


# Monthly Utilization in 2016

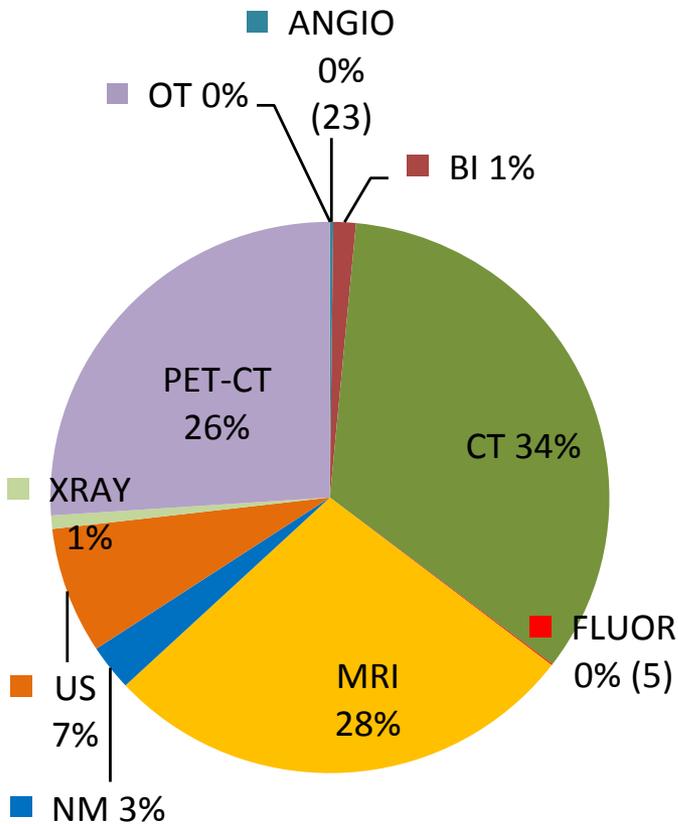


+ 40 studies per month over the past 18 months

# Accumulated No. of Studies



## Distribution of Modality (2011-2016)



## Comparison between HA and Private Radiology over a 12 month period (2014-15)

	HA	Private	Private /HA
CT	389 032	13 328	3.4%
MRI	64 875	10 299	15.9%
USG	239 477	3116	1.3%
Mammogram	21 082	417	2.0%
PET-CT	-	11 201	-

# Leveraged by corporate initiatives



5 service providers awarded tender  
Full subsidy  
CT & MRI services  
Newly diagnosed Ca & follow-up scans  
>16,200 bookings



7 service providers awarded tender  
Partial subsidy for HA staff  
CT, MRI, Breast imaging services  
~50 studies per month

# Lessons Learned

# Challenges for image distribution in the eHR Sharing System

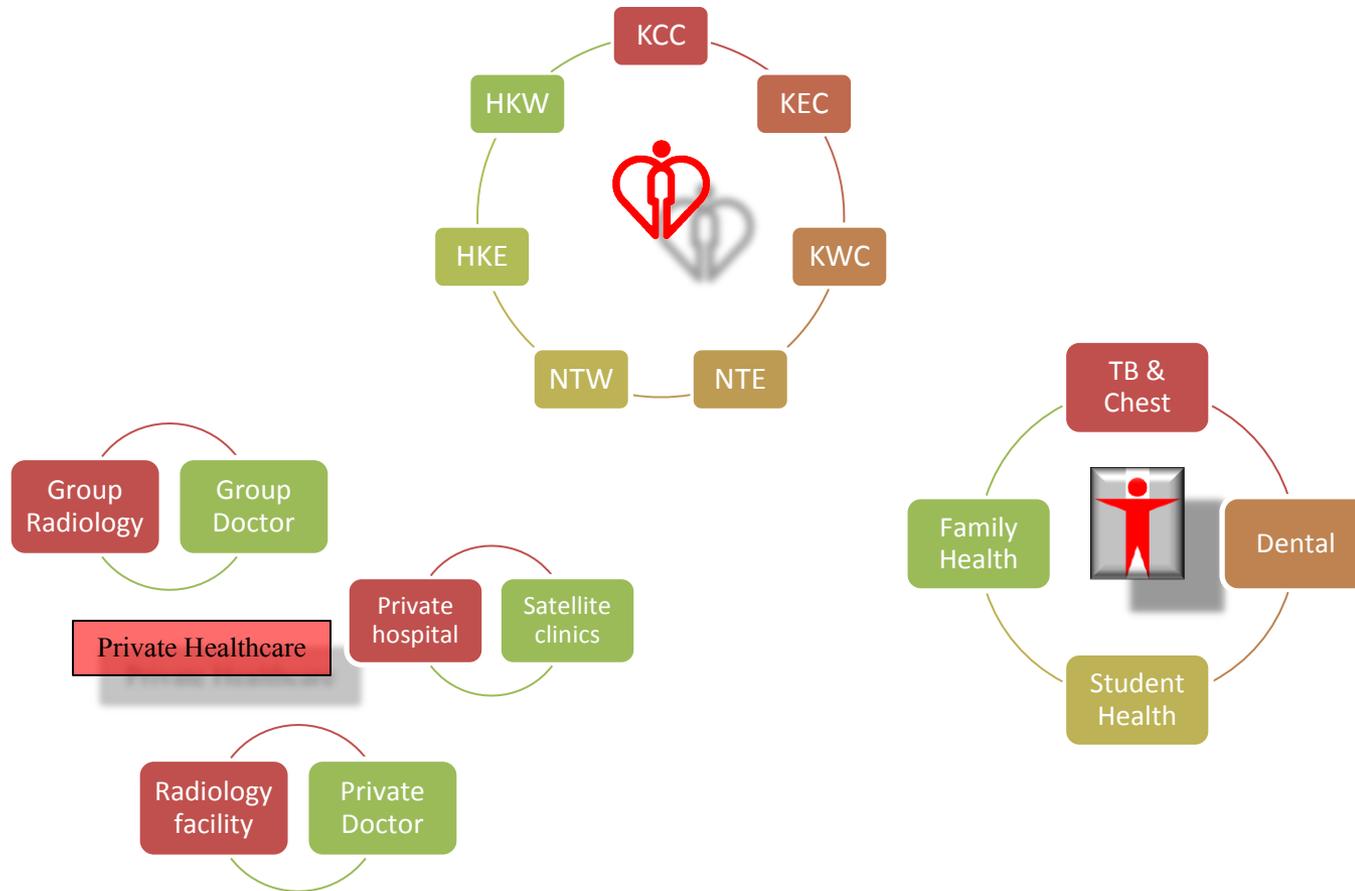
# 3 enterprises



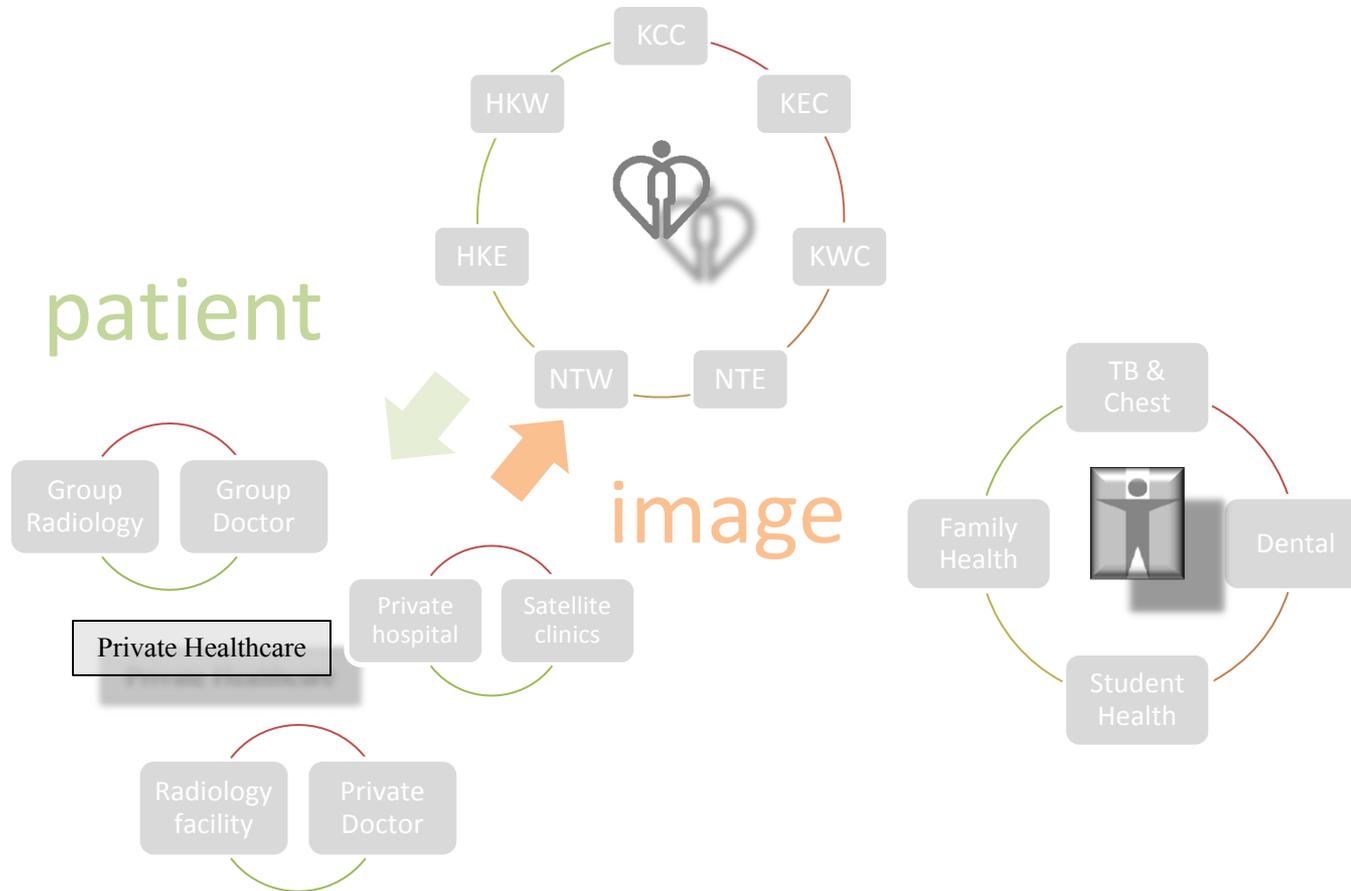
**Private  
Healthcare**



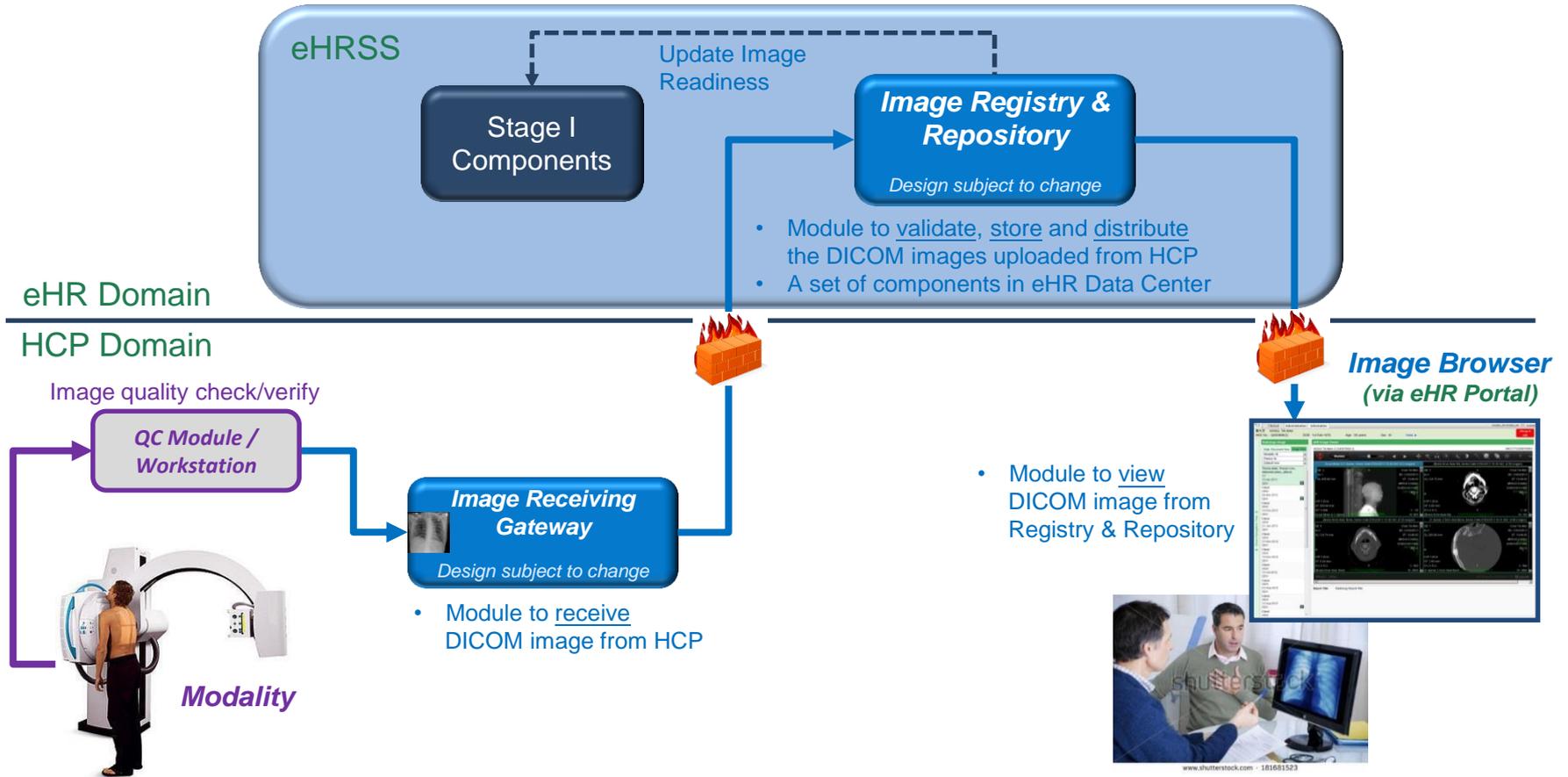
# Intra-enterprise Image Distribution



# Inter-enterprise Image Distribution



# Proposed architecture for eHR image distribution



陳大文 CHAN, TAI MAN  
HKIC No. : Q000511(4)

DOB : 28-Feb-1960

Age : 55 years

Sex : M

Details ▶

Allergy &  
ADR

Select  
Patient

Close  
Record

醫健通  
ehealth

All Local Non-Local

Help



▼ Clinical Note & Summary

Clinical Note & Summary

Birth Record

▶ Encounter / Appointment

▼ Problem & Procedure

Problem / Diagnosis

Procedure

▼ Medication

Prescribing History

Dispensing History

▼ Laboratory Record

Chemical Pathology

Microbiology & Virology

Toxicology

▼ Radiology Record

General Radiology

Ultrasonography

Computed Tomography

▶ Immunisation Record

Problem / Diagnosis Details ▶

Date	Description
19-Jun-2005	Diabetes mellitus
19-Jun-2005	Hypertension
01-Oct-2014	Appendicitis
23-May-2009	Acute gastritis
07-Jun-2008	Bronchitis

Laboratory Record Details ▶

Date	Description	Institution
19-Jun-2015	CBP	PWH
19-Jun-2015	LFT, RFT, Glucose, Lipid	PWH
15-Jan-2015	CBP	PWH
15-Jan-2015	LFT, RFT, Glucose, Lipid	PWH
28-Oct-2014	CBP	PWH
28-Oct-2014	LFT, RFT, Glucose, Lipid	PWH

Encounter / Appointment

Start Date	Specialty
19-Jun-2015	Medicine / Internal medicin
15-Jan-2015	Medicine / Internal medicin
28-Oct-2014	Medicine / Internal medicin
14-Oct-2014	Medicine / Internal medicin
01-Oct-2014	General Surgery
20-Jun-2014	Medicine / Internal medicin

Allergy & Adverse Drug Reaction Details ▶

Allergen	Allergy Information
TETRACHLINE	Suspected, Rash
ASPIRIN	Certain, Rash

ADR Causative Agent	ADR Information
HYDROCHLOROTHIAZIDE	Mild, Hypokalemia



# Proposed Integration Standard

- **XDS-I b**
  - **Developed by IHE (Integrating the Health Enterprise)**
  - **XDS profiles for most healthcare domains**
  - **XDS-I specifically for Imaging**
- **Defines file format during distribution**
- **Defines interactions between systems across enterprises**



*Thank you*