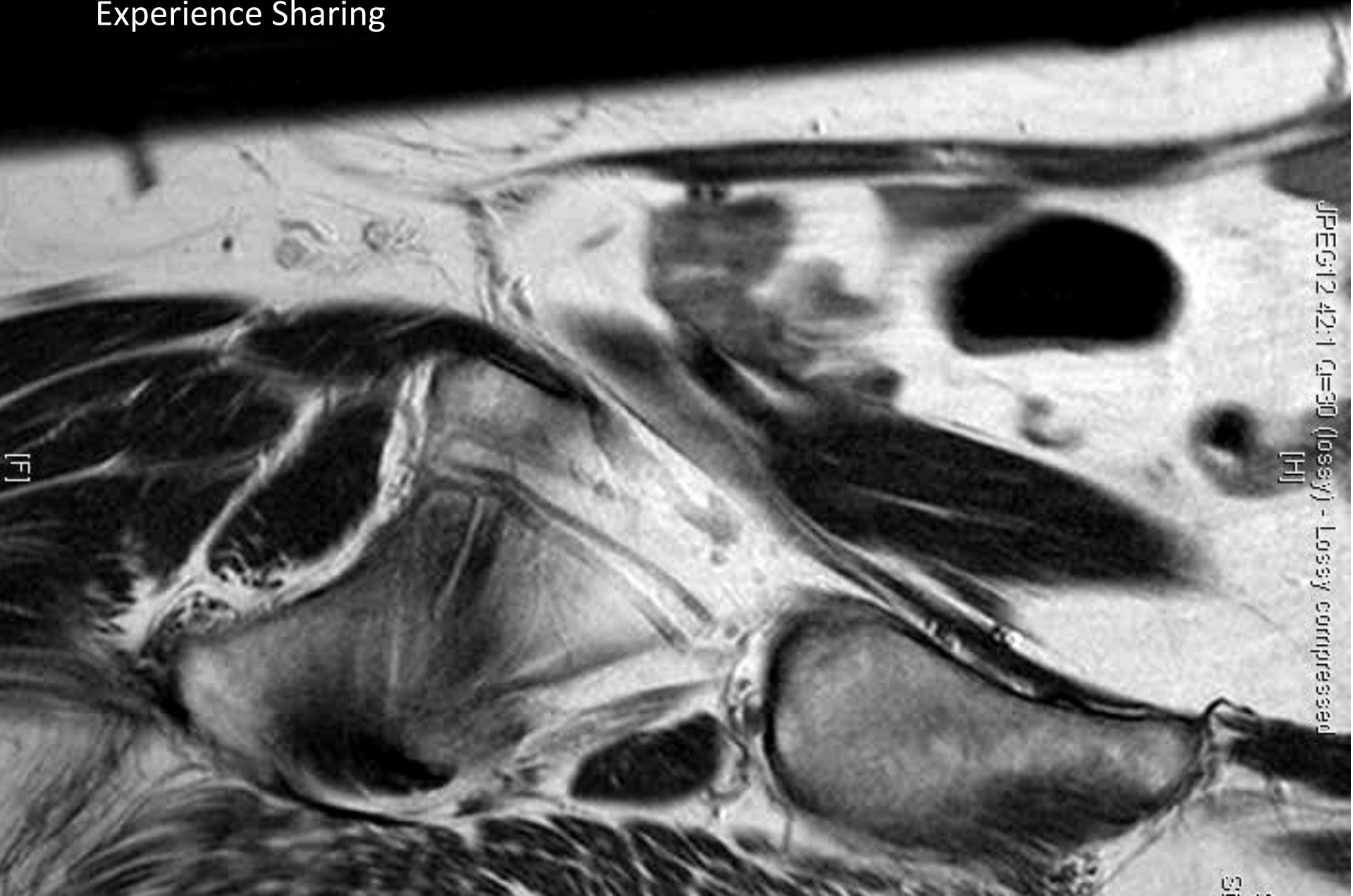
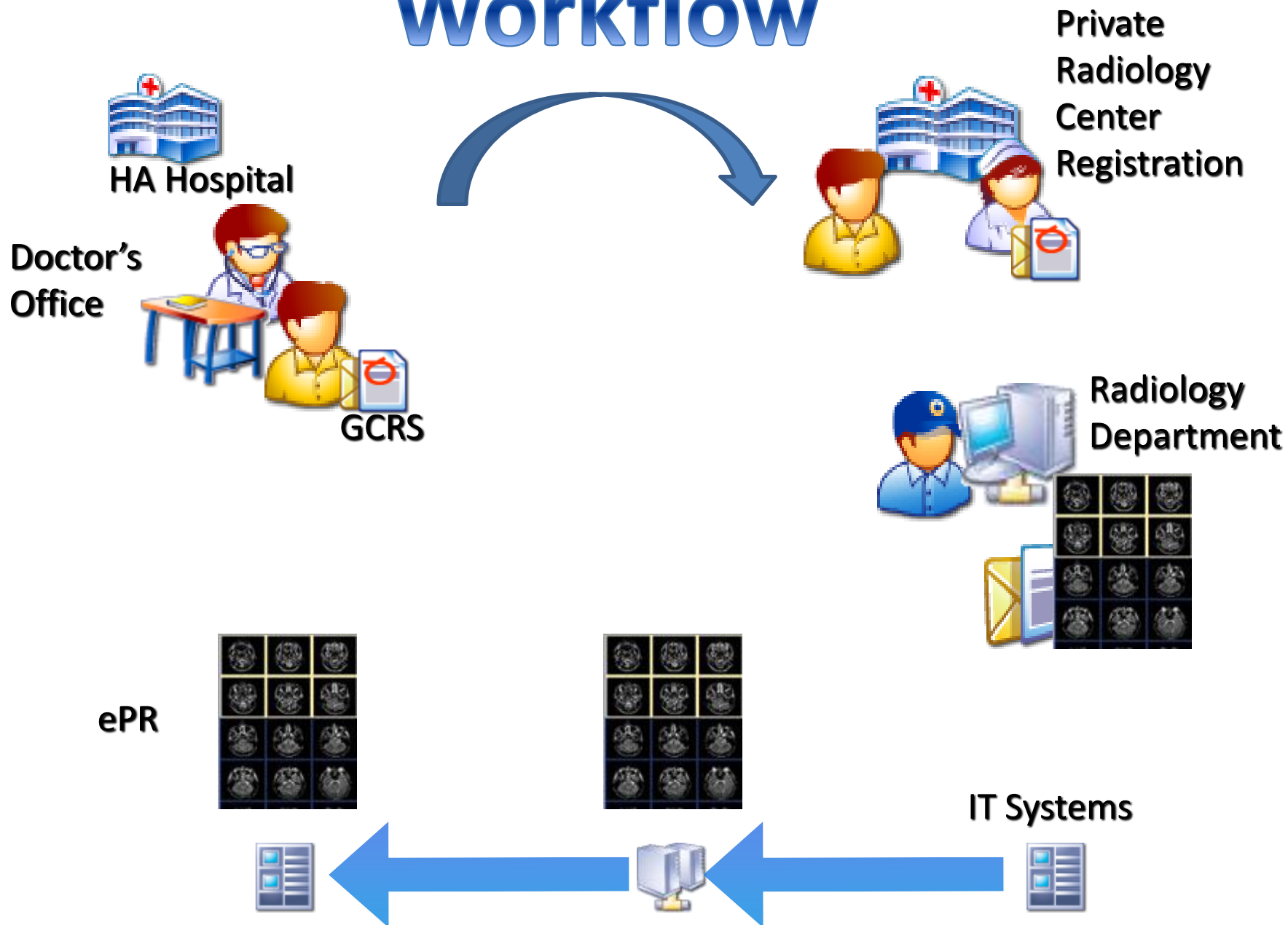


Radiological Image Sharing in Hong Kong across the Public-Private Interface

Experience Sharing



Workflow

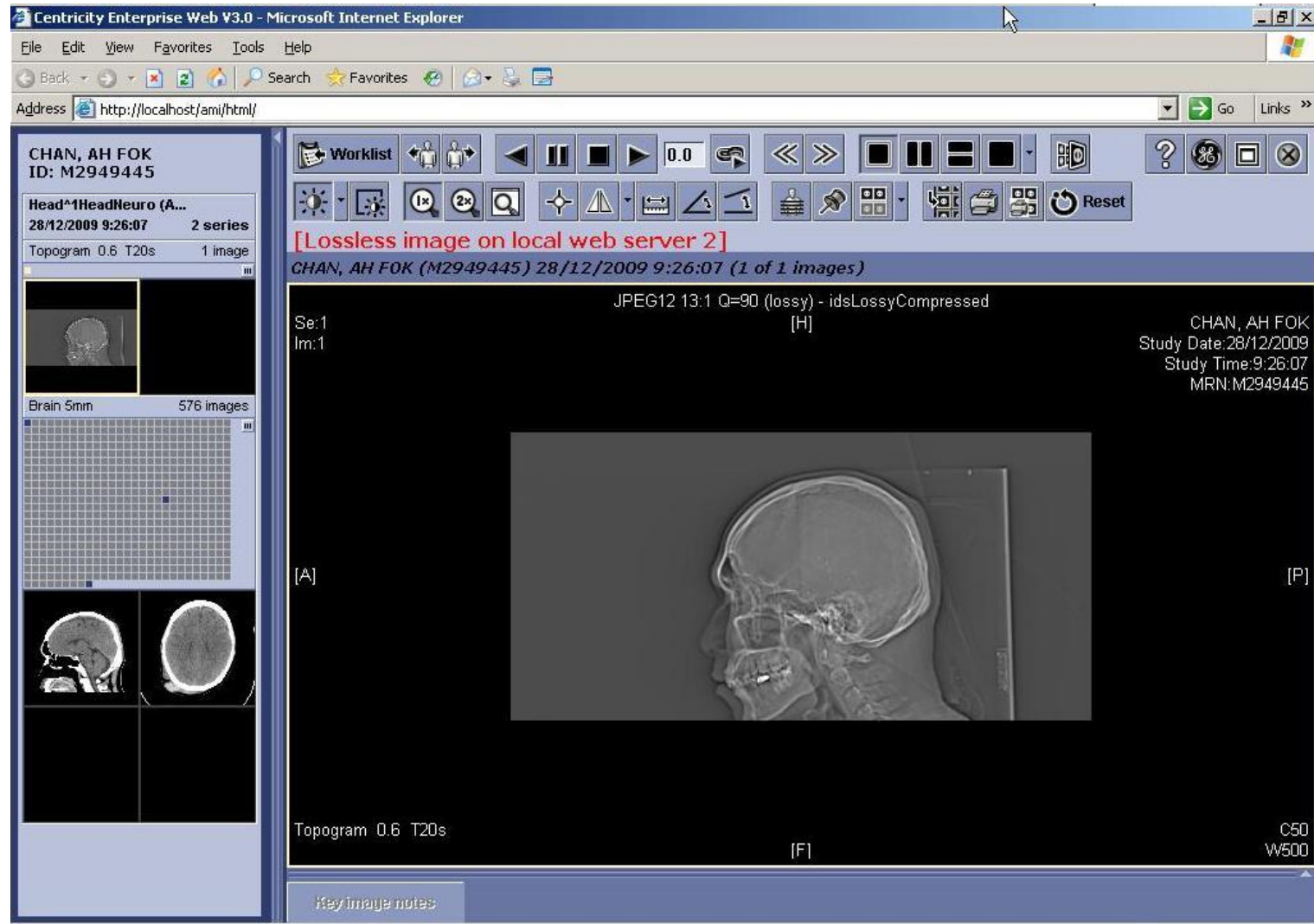


Private Radiology order entry

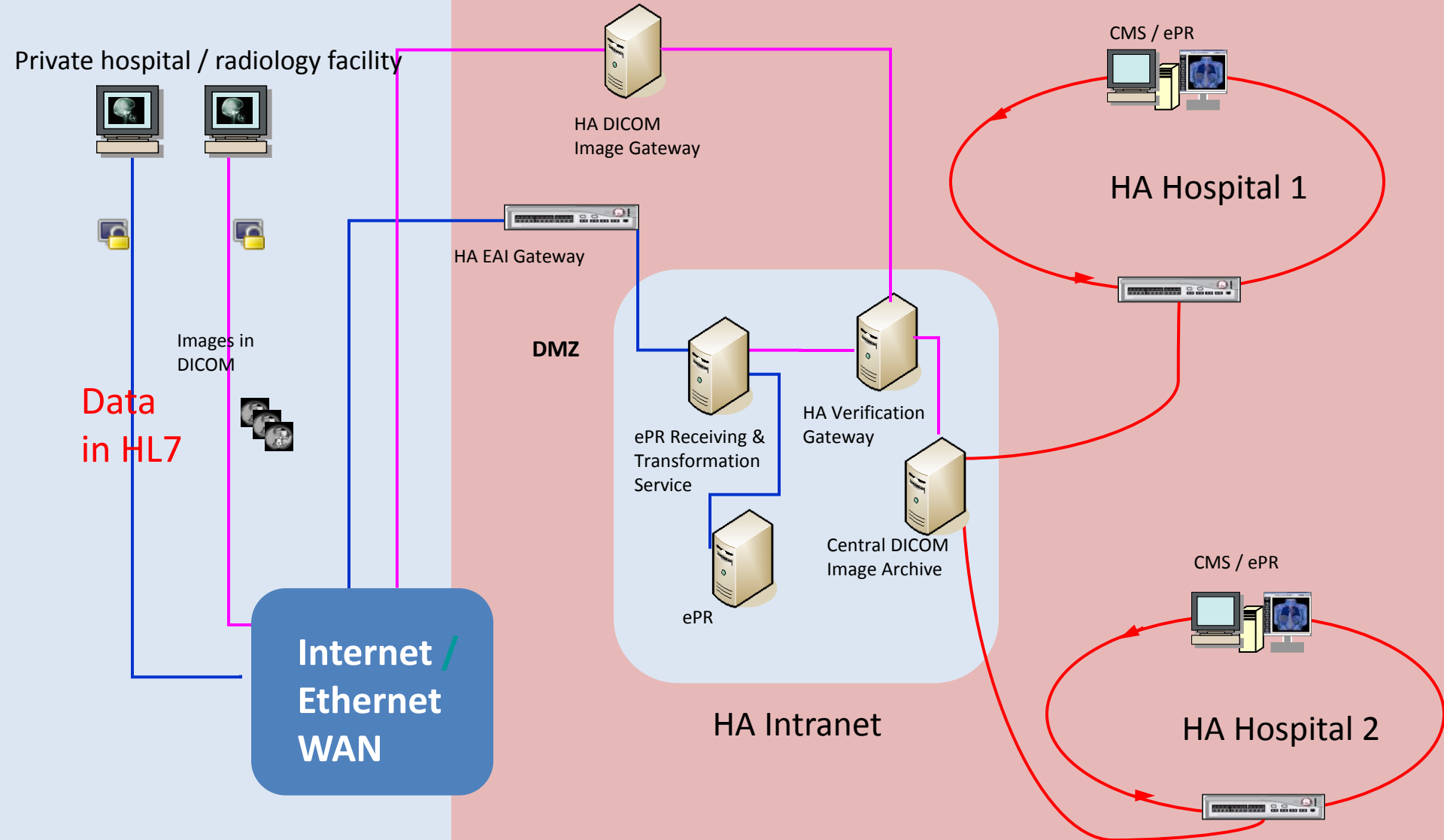
The screenshot displays a web-based interface for private radiology order entry. The interface is divided into several sections:

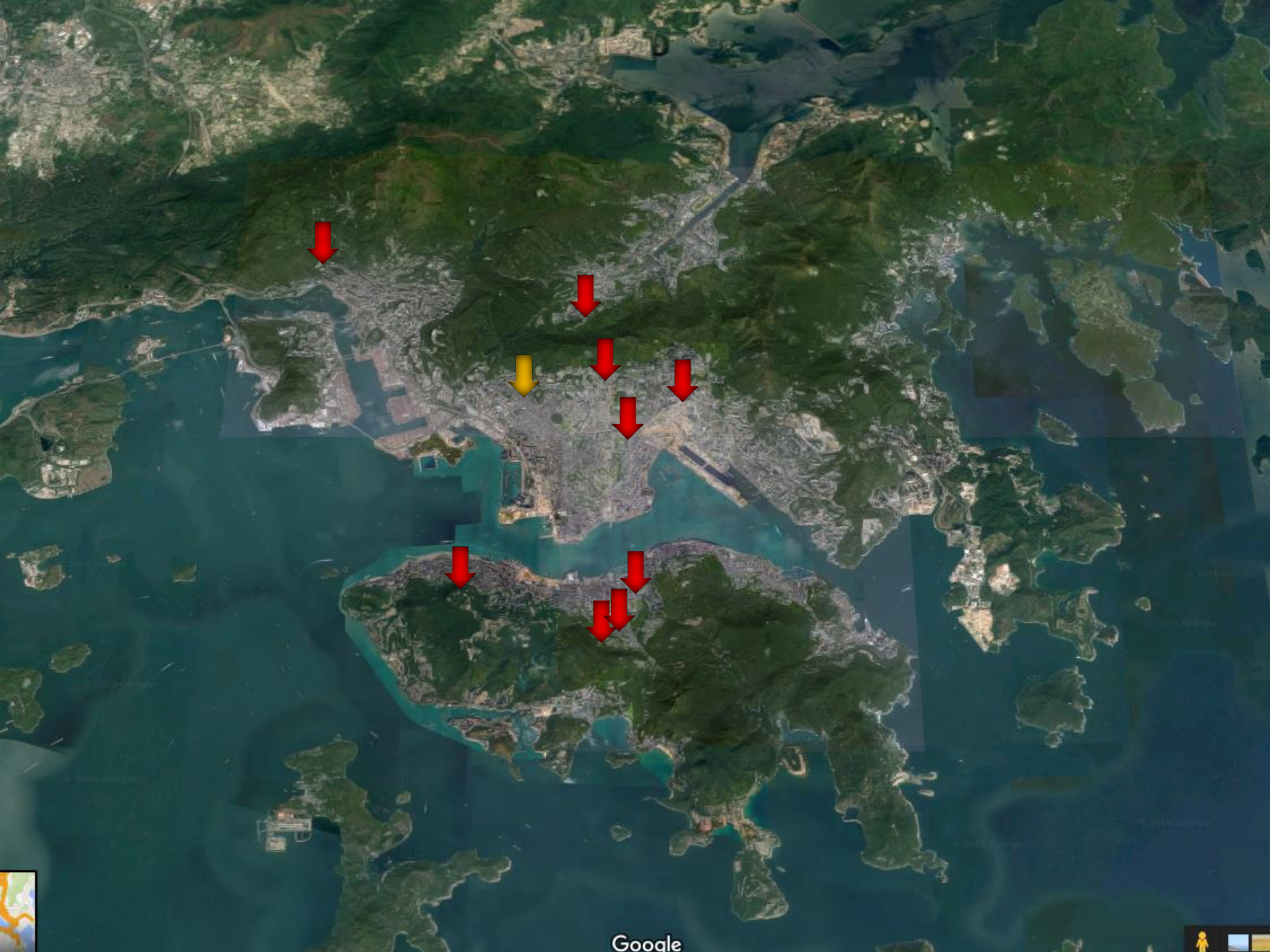
- Left Sidebar:** Contains a list of disciplines under the heading "By Discipline". The disciplines listed are: All, ALLIED HEALTH---, Dietetic, MSW, OT (General), OT (Psychiatric), CT Scan, MRI, PET-CT Scan, Ultrasound Scan, Plain X-Ray, Breast Imaging, Fluoro/Contrast X-Ray, Nuclear Medicine, Angiography&Vas IR, and General IR. There are also buttons for "By Department" and "By".
- Main Form:** Features a "By Discipline" dropdown menu set to "Private (Non-HA)". It includes a "Search" button and a "New Ix" button. Below the dropdown, there are fields for "Site/Item (allow for free text input)", "Contrast", and "Service providers list".
- Browser Window:** Displays a webpage titled "List of Private Hospitals and Centres Providing US Scan". The page includes the following information:
 - Approximate Price Range in Private Hospitals 私营醫院大約收費 (\$HK):** 440 - 3692
 - Approximate Price Range in Private Centres 私营中心大約收費 (\$HK):** 318 - 3696
 - (List in Alphabetical Order)**
 - Hong Kong 港島:** A table with 5 columns: Private Hospital / 私营醫院, Address / 地址, Telephone No. / 電話號碼, Fax No. / 傳真號碼, and Approximate Price Range / 大約收費(\$HK).
 - Kowloon 九龍:** A table with 5 columns: Private Hospital / 私营醫院, Address / 地址, Telephone No. / 電話號碼, Fax No. / 傳真號碼, and Approximate Price Range / 大約收費(\$HK).
 - New Territories 新界:** A table with 5 columns: Private Hospital / 私营醫院, Address / 地址, Telephone No. / 電話號碼, Fax No. / 傳真號碼, and Approximate Price Range / 大約收費(\$HK).

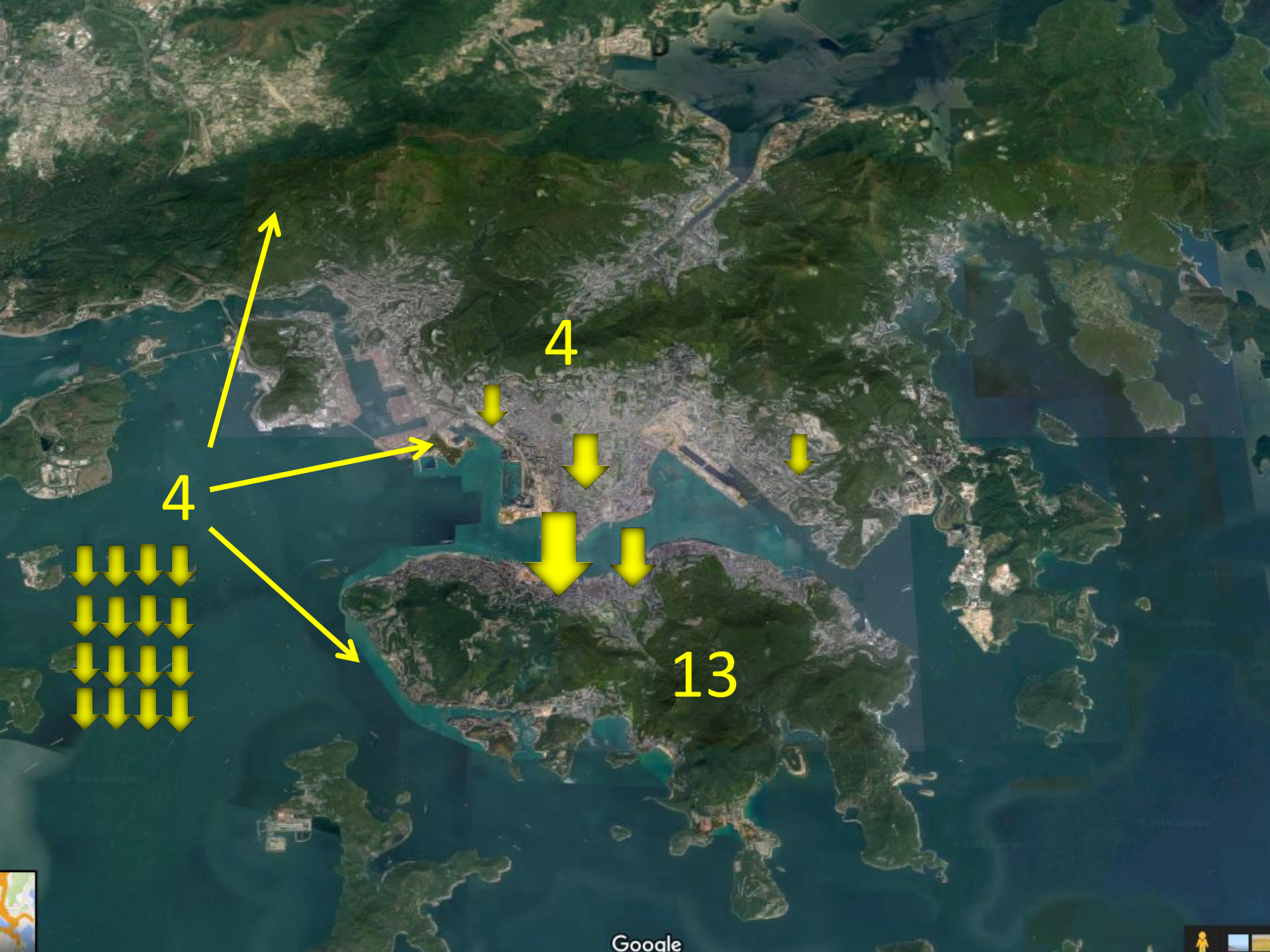
ePR & image browser



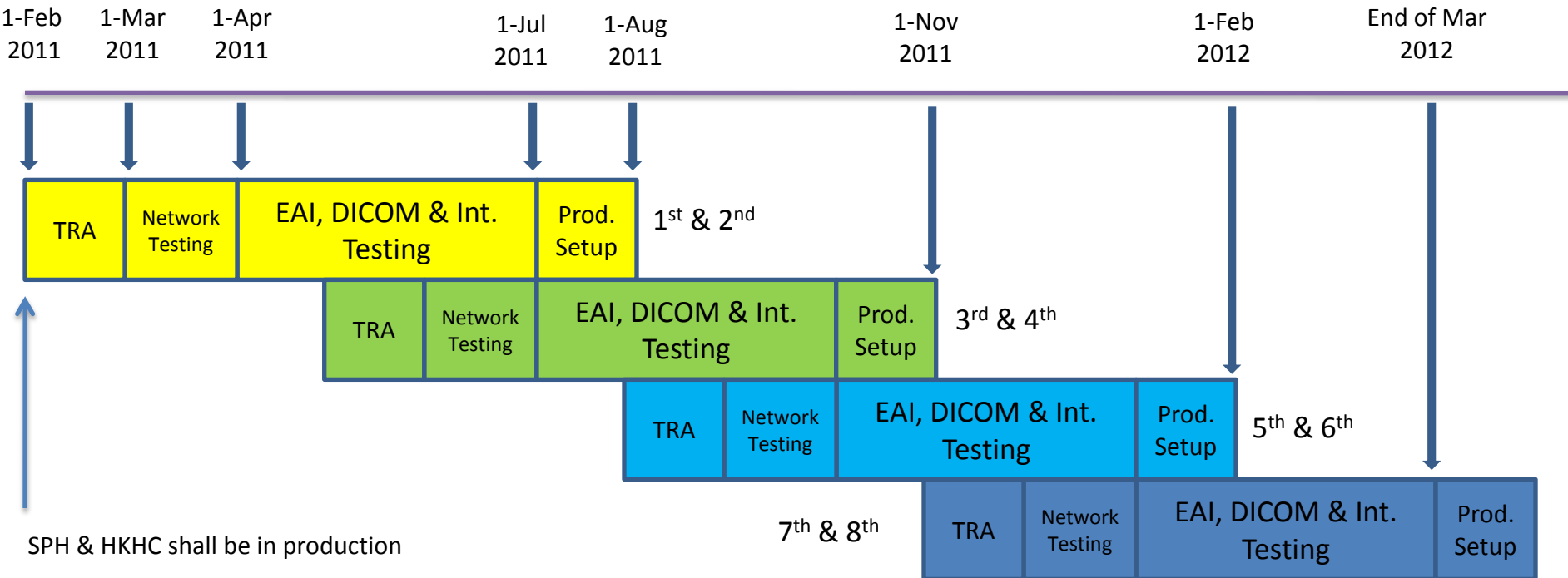
System Workflow & Architecture





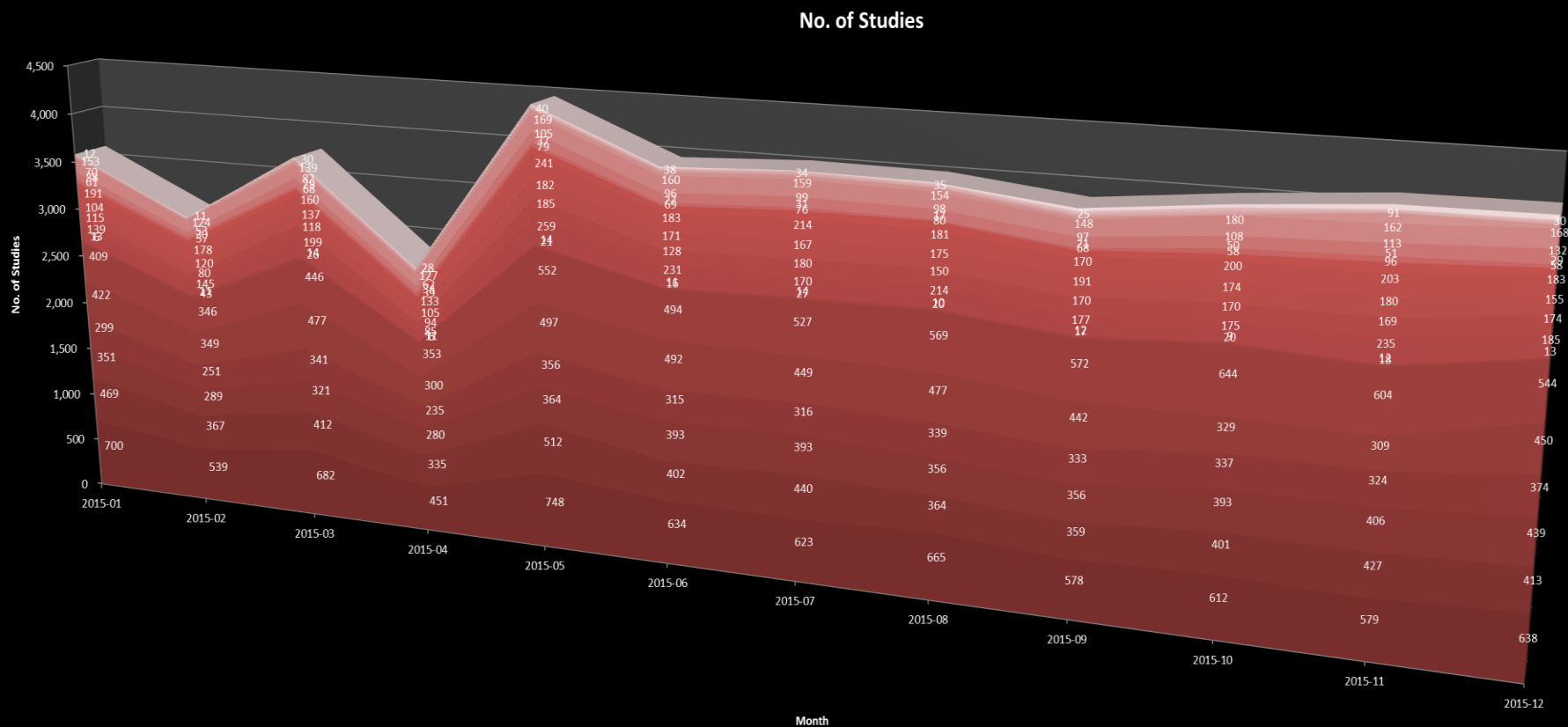


Progress and plan from 2011/12

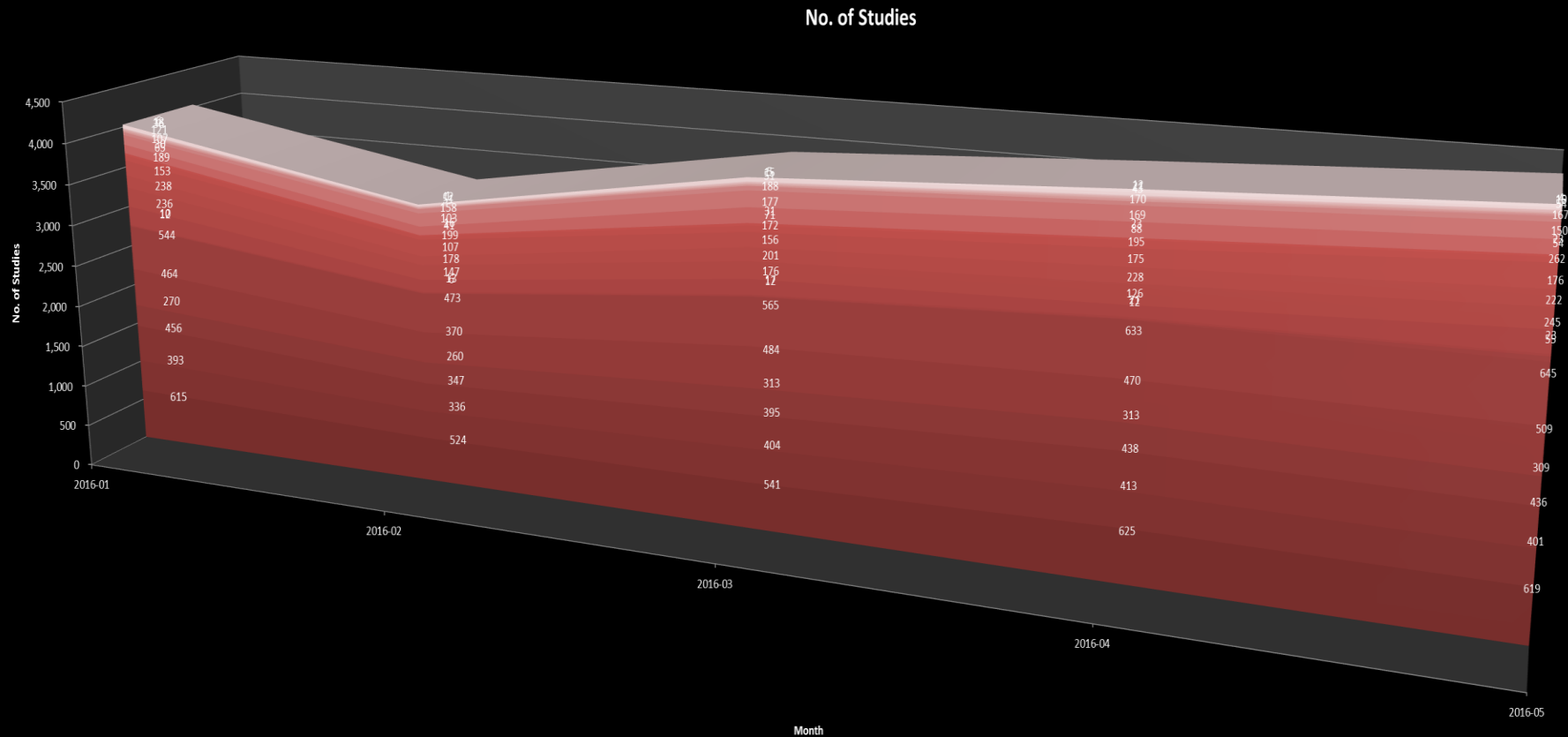


TRA – Technical Readiness Assessment

Monthly Utilization in 2015

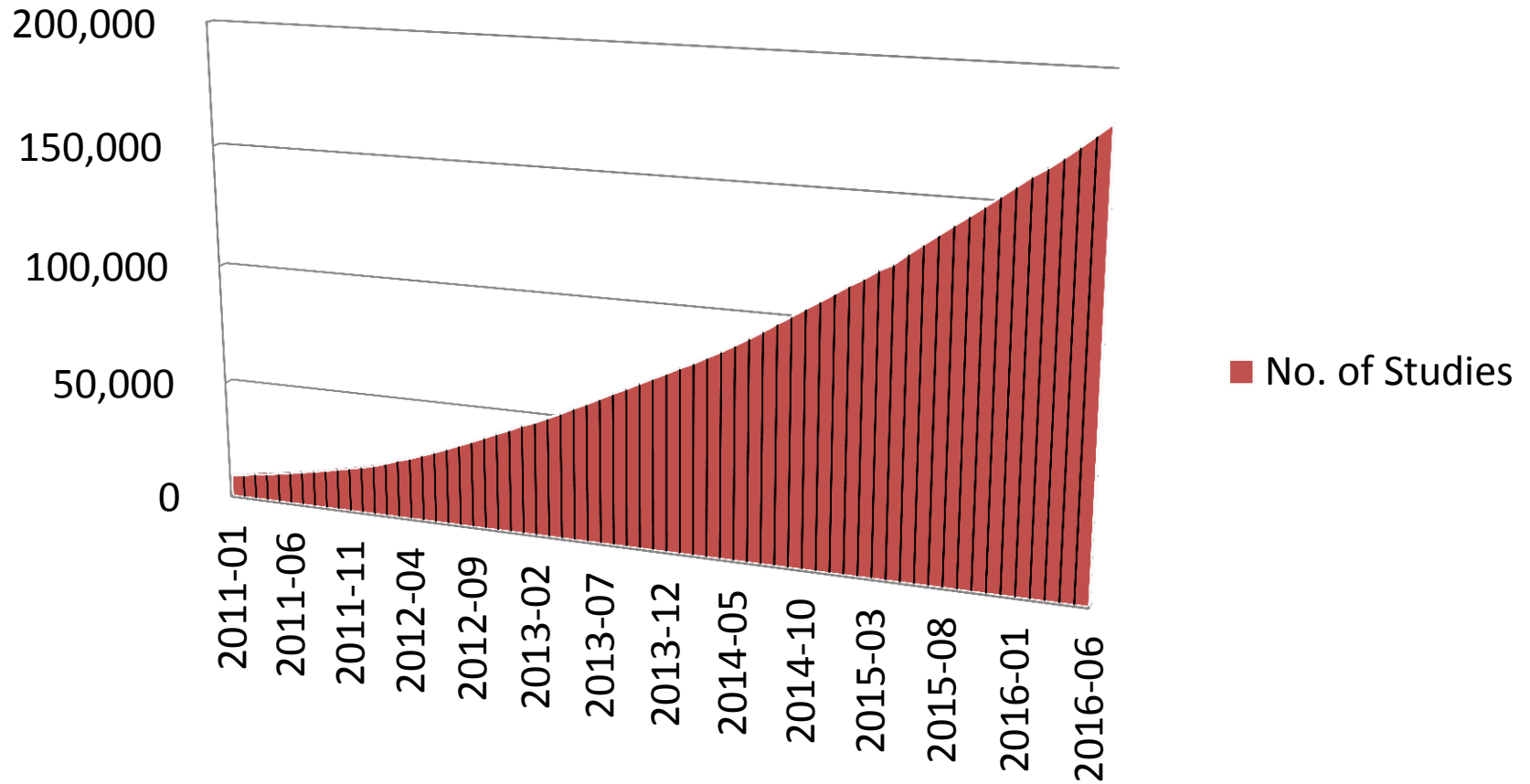


Monthly Utilization in 2016

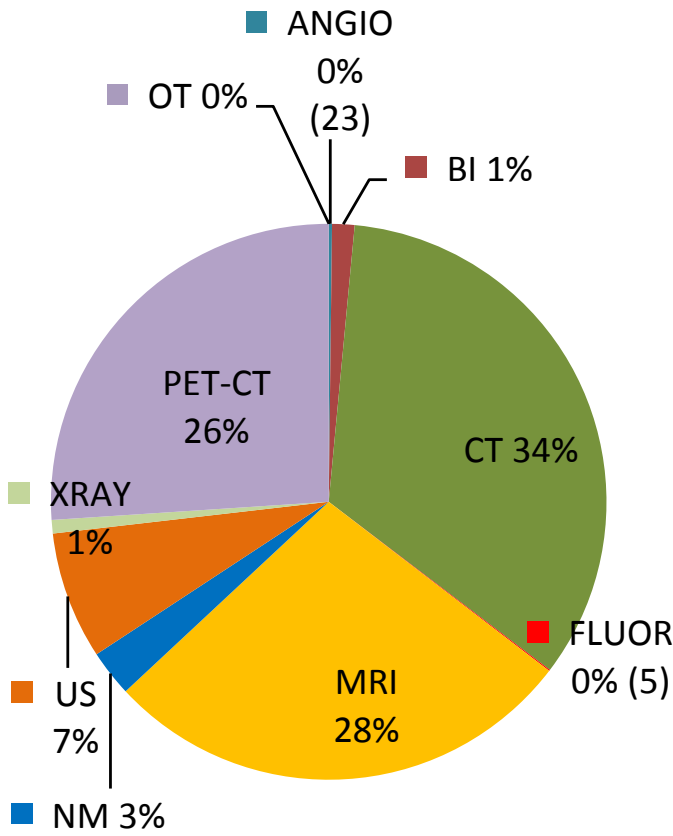


+ 40 studies per month over the past 18 months

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

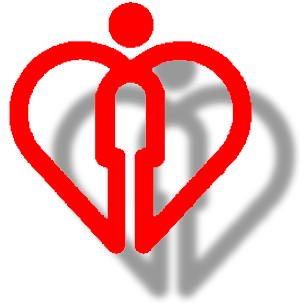


7 service providers awarded tender
Partial subsidy for HA staff
CT, MRI, Breast imaging services
~50 studies per month

Lessons Learned

Challenges for image distribution in the eHR Sharing System

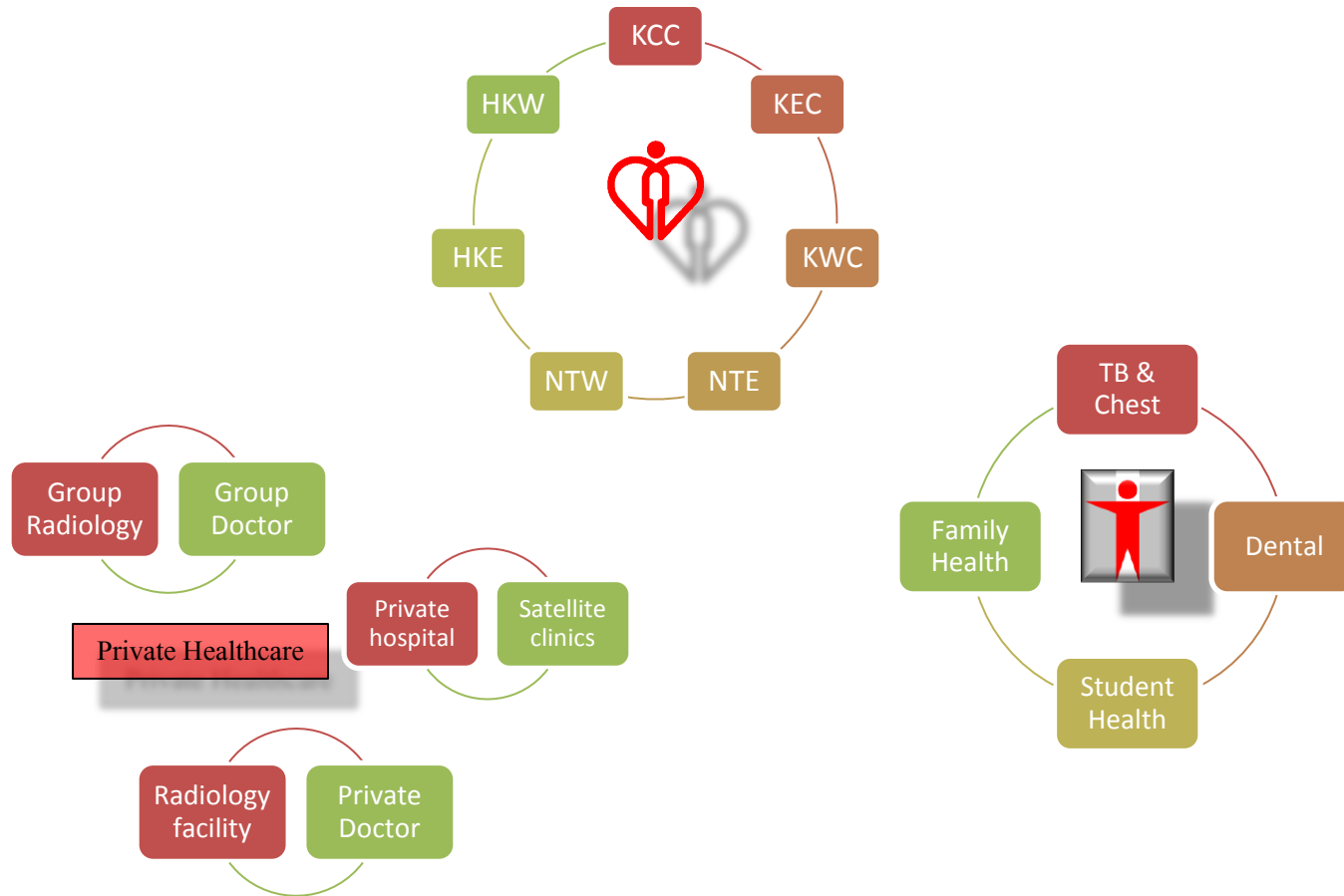
3 enterprises



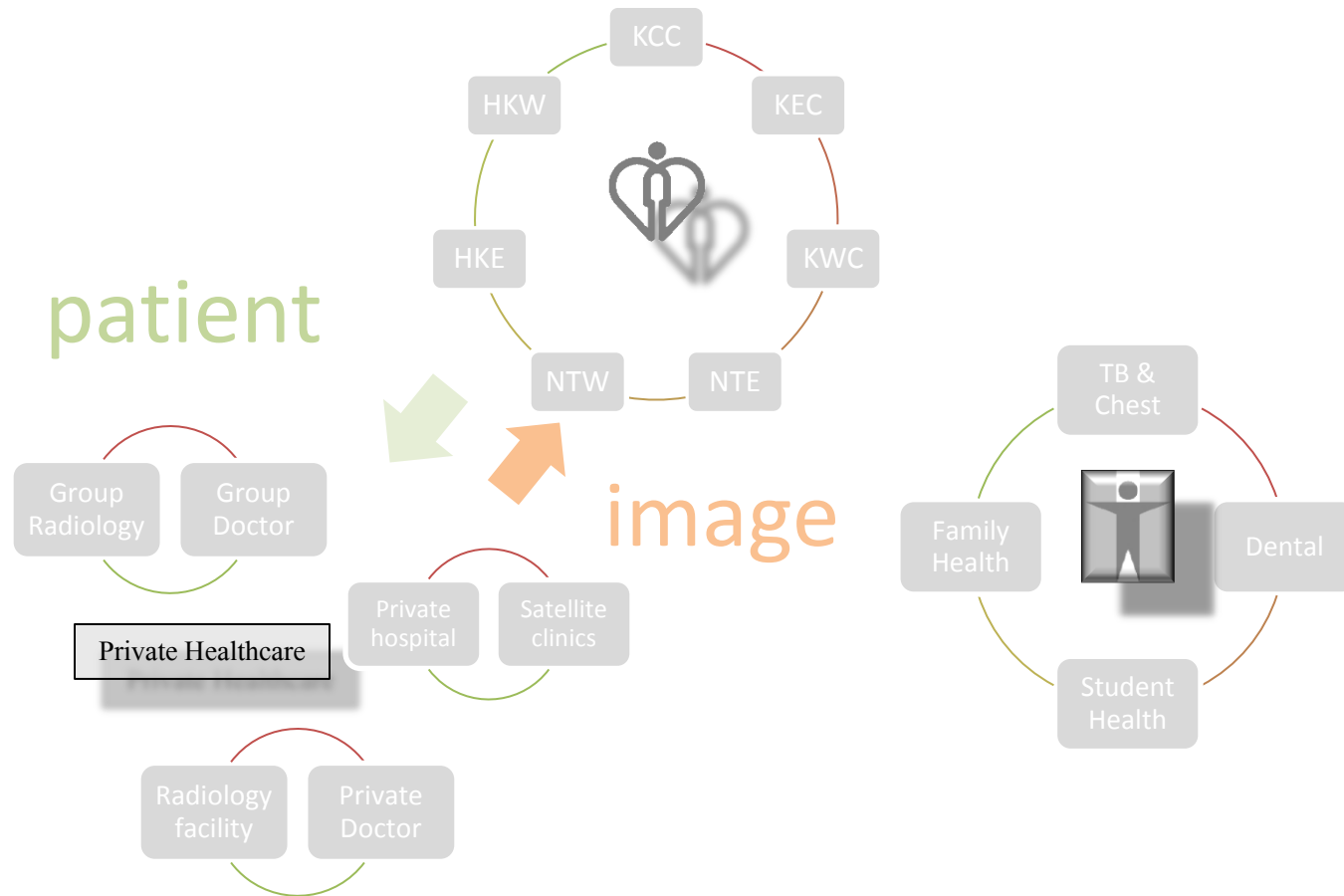
**Private
Healthcare**



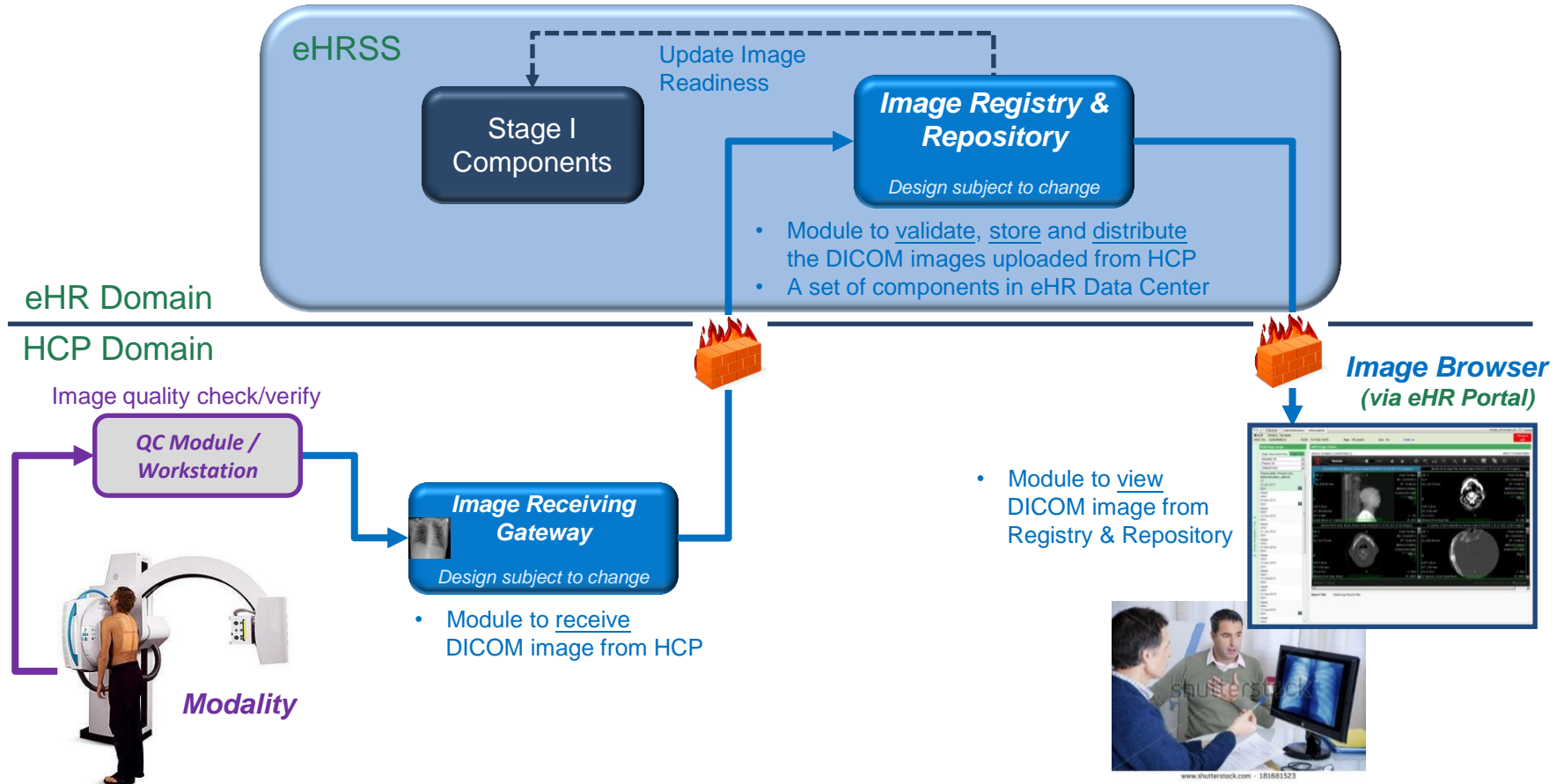
Intra-enterprise Image Distribution



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	
28-Oct-2014	LFT, RFT, Glucose, Lipid	

Encounter / Appointment

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

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