

Project Briefing Timeline **eHRSS Radiology Image Sharing**

Future Direction **Radi Image Sharing Pilot**

Forum on “Migration of Radiology Image Sharing Pilot
to eHRSS Radiology Image Sharing”

20th June 2019

HI (eHR)

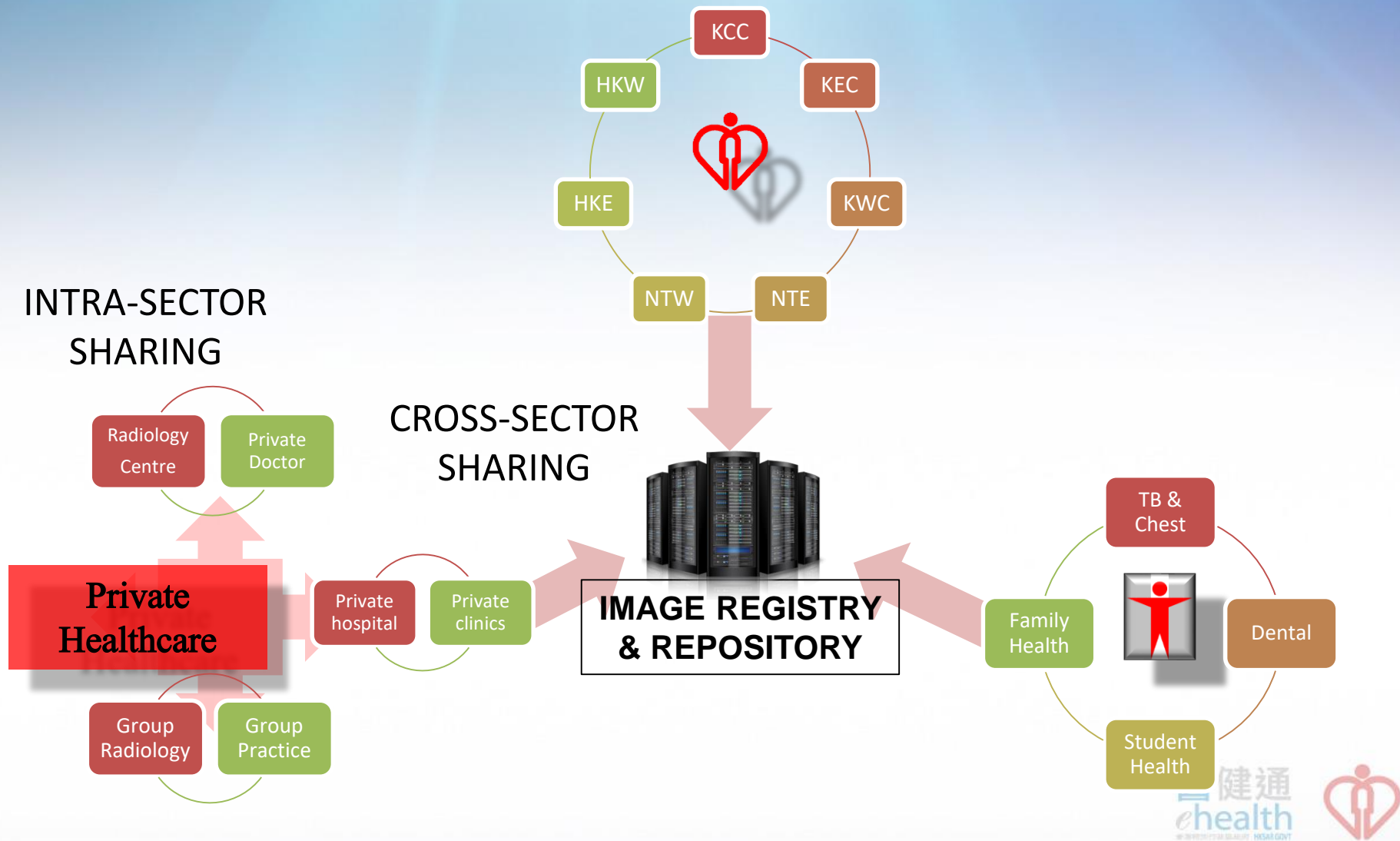
Our project is

**to establish an accessible
unified, single point for access**

**to a longitudinal history
of patient clinical radiology images**

for the territory-wide eHRSS

Private + DH + HA will share radiology images

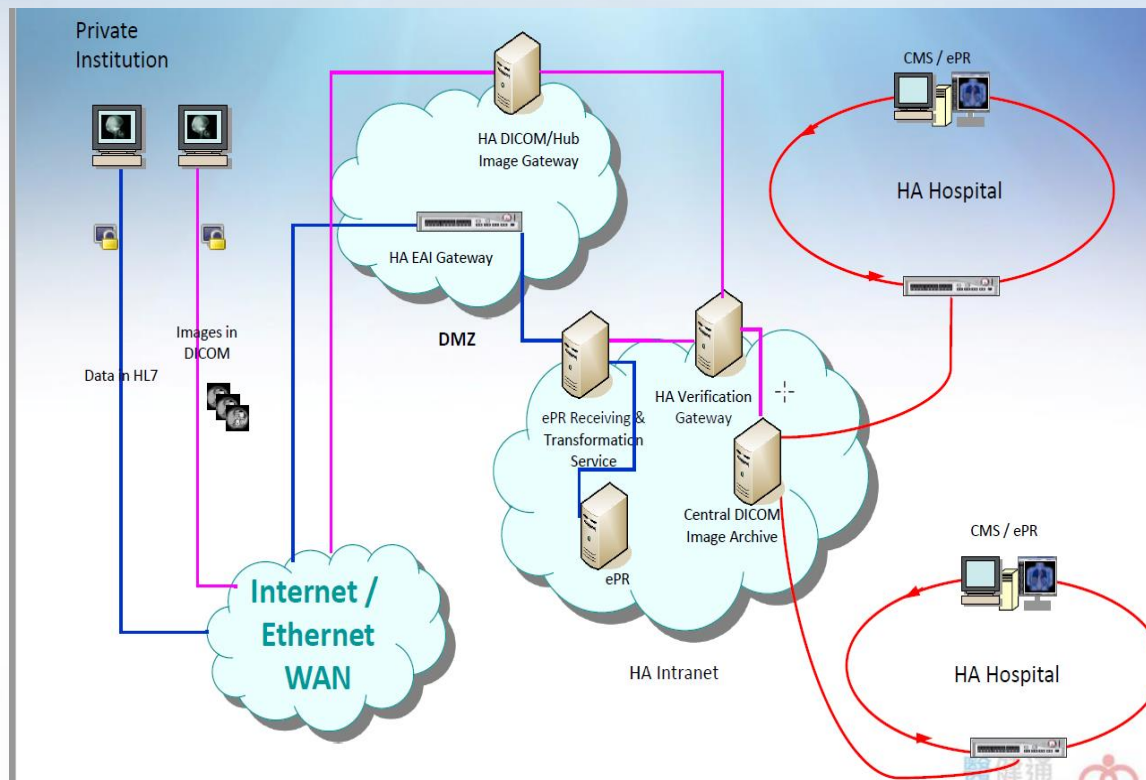


Radiology Image Sharing Pilot (2009-)

Stage 1 eHRSS project

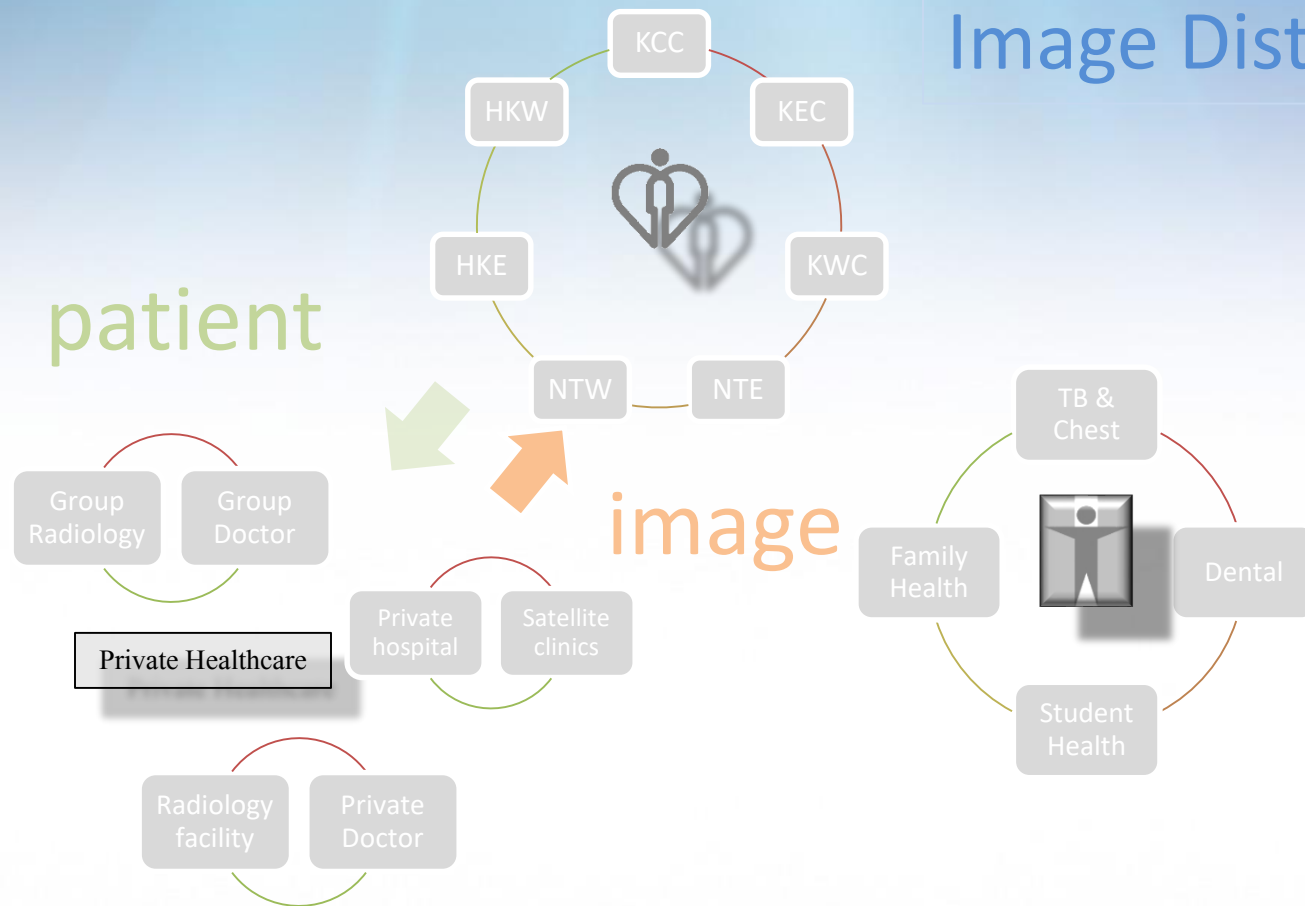
(as of 2019) **31 interfaces** for radiology data

[PRIVATE HOSPITAL / CENTRE → HA]



Episode based -
HA referred
patients only

Current level of Cross-enterprise Image Distribution

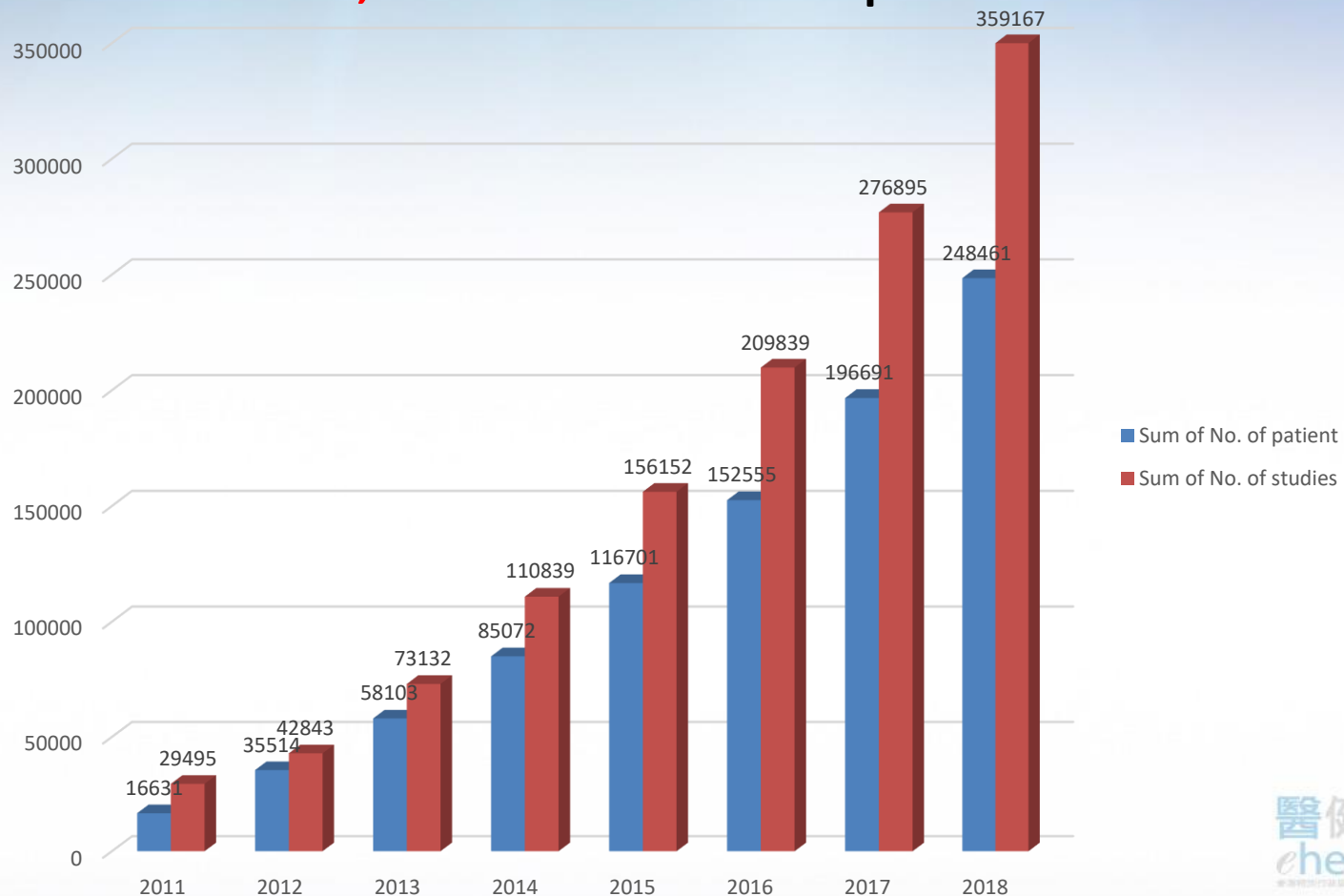


main objectives

- Build **Private sector readiness** for radiology image sharing
- Enhance **HA user acceptance** of viewing Private sector radiology data in HA CMS/ePR
- Promulgate **standards** – DICOM / HL7 / globally unique Accession no.

Cumulative data, grouped by annum

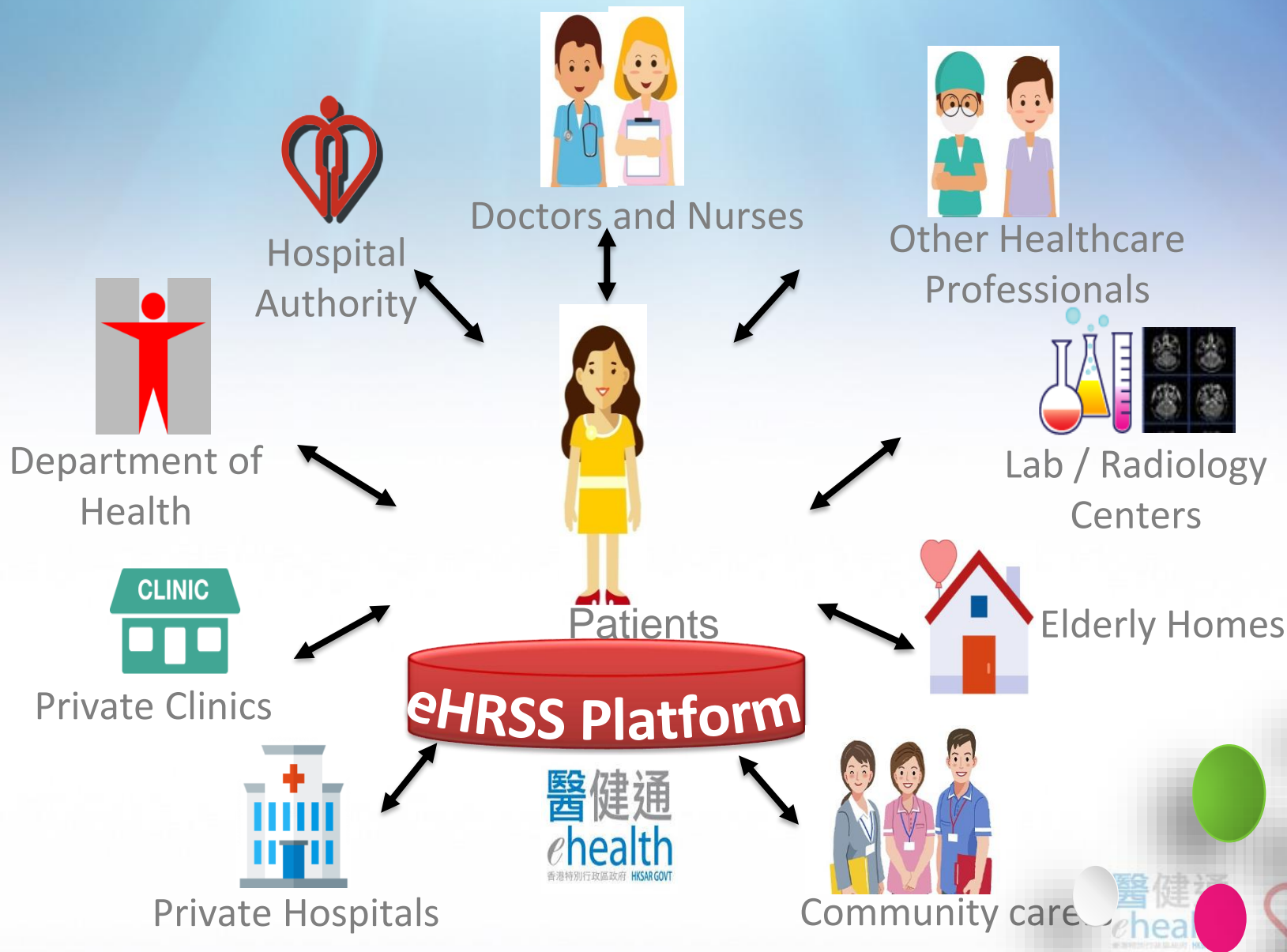
- 359,167 studies received
- of 248,461 individual patients



eHRSS commenced operation on 13th March 2016



Territory-Wide Health Record Sharing



Scope of eHR Shareable Data (Stage I)



eHR Stage 2 development (2017-18 to 2021-22)

- Radiological Images
- Chinese Medicine
- Patient Portal and Sharing Restriction



project value

- **increase quality of clinical care**
 - via more comprehensive radiology results
- **increase quality of diagnostic radiology**
 - via availability of relevant priors
- **a better patient experience of healthcare**
 - via improved clinical radiology workflows

timeline

- 2016: eHRSS launched
- 2017: Stage 2 eHRSS Development begins
- **Stage 2 eHRSS - Radiology 5-year Plan**
 - 2017-18: *project formally begins
 - 2018-19
 - 2019-20: *we are here 2Q 2019
 - 2020-21: ***images first available 1Q 2021**
 - 2021-22

Requirements

Image Upload

1. Upload **Lossless** images
2. Upload to **Centralized archive**
3. **Archive images for 3 years**
4. **Initial Upload of 2 years**
5. Allow Scope of 10 Modalities
 - incl. PET-MRI (tbc)
6. No. of images per study ≤ 1500

Image Viewing

1. Usual access to image studies **via eHRSS Viewer**
2. View **Lossless images**
3. View by Healthcare Professionals according to prevailing **Role Based Access** policies

Major components

**IMAGE ARCHIVE /
STORAGE**

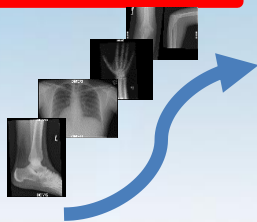
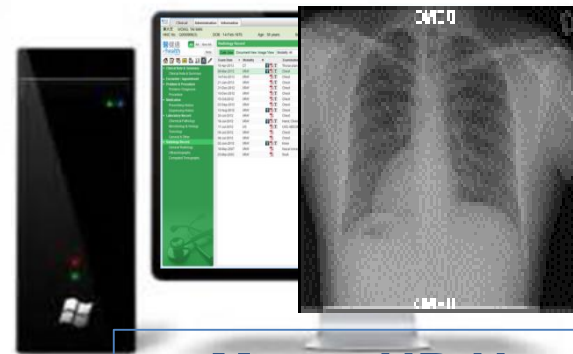


IMAGE UPLOAD



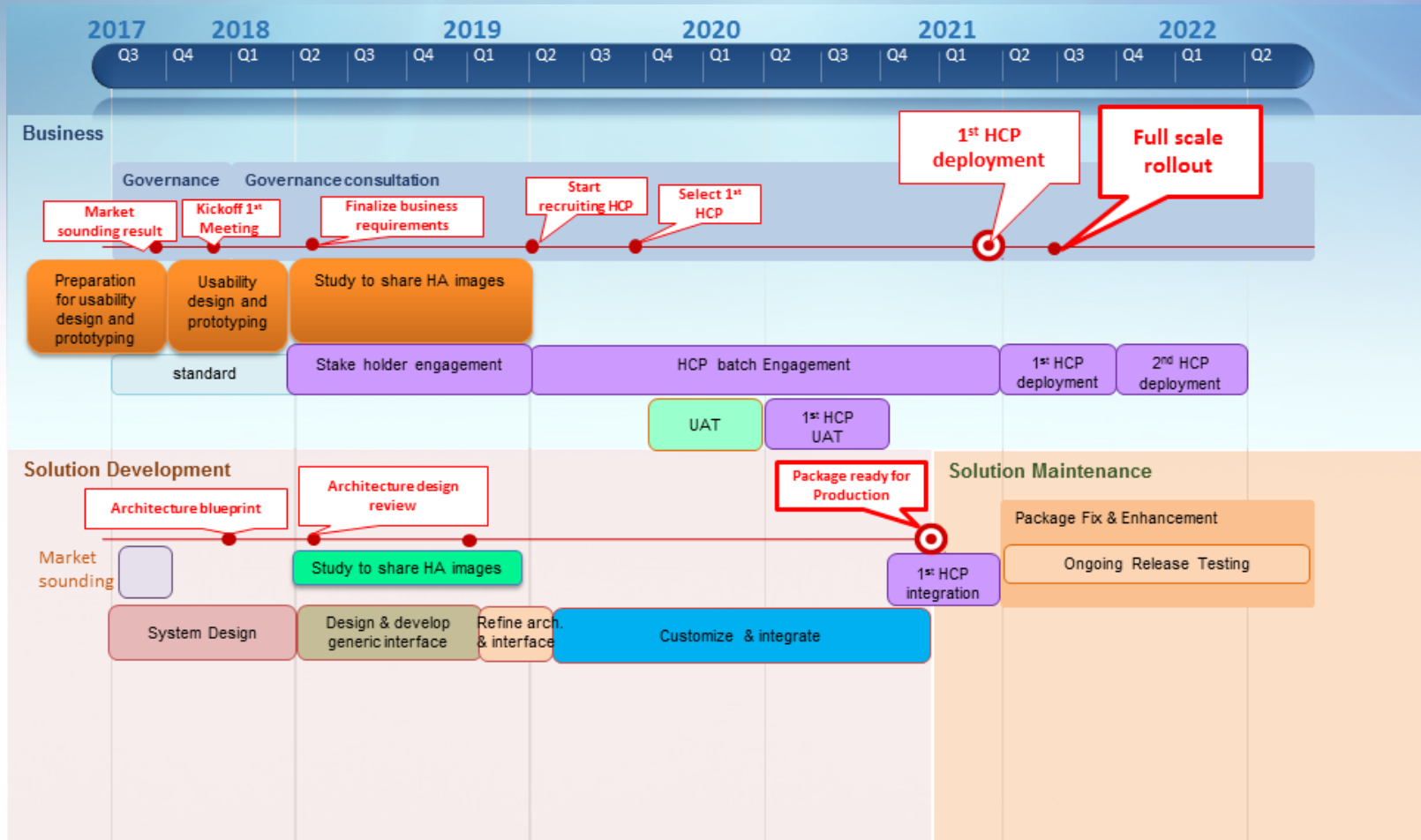
Radiology Service Provider

IMAGE VIEWING

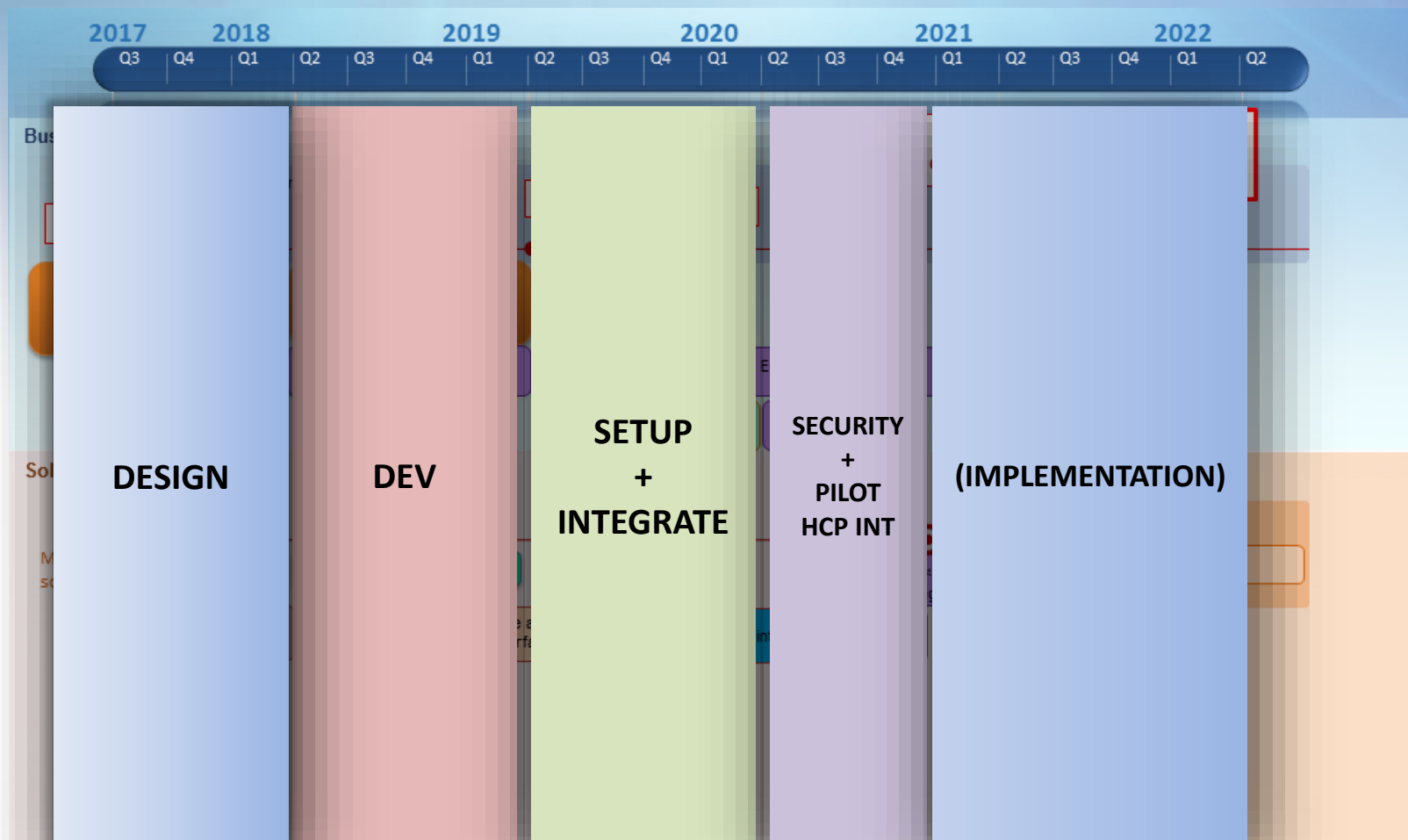


Most eHR Users

development plan



development plan



implementation

- **Viewing of images**

- Functional viewing requirements
- Non-functional requirements - Availability, Performance, Reliability

- **Upload of images**

- *HCPs must populate the image archive with patient data*
- **HA upload – available on day 1**
- **Private HCP upload (MIGRATION)**
- **DH upload (co-ordinate with DH CIMS II development)**

- HA to receive a copy of HA requested Radiology studies

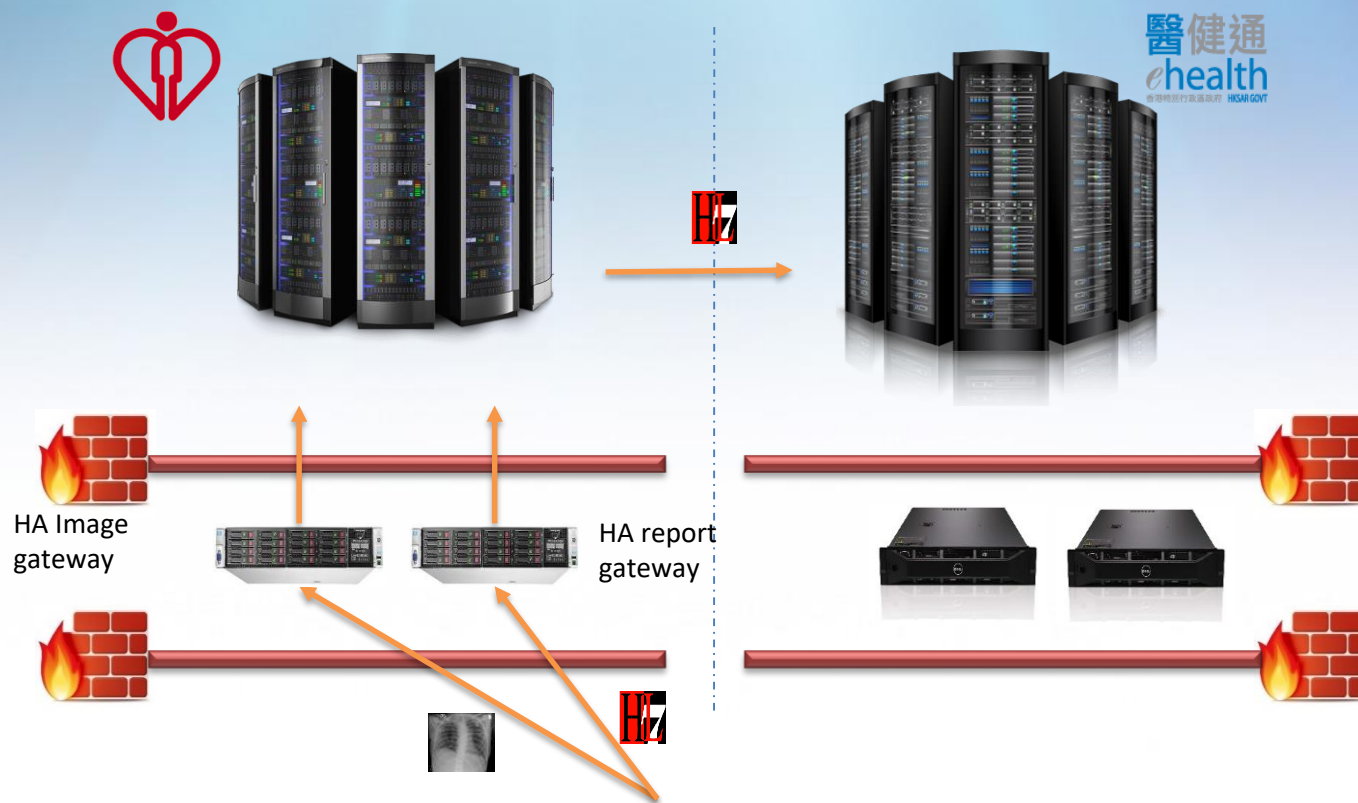
Migration strategy

Most private radiology have already joined the Pilot

So we have developed a Migration Strategy

- Endorsed by
 - **eHRSS IT Governance bodies**
 - **eHRSS Radiology Image Sharing Task Force (2nd Meeting)**
 - Comprehensive stakeholder representation
- Technical feasibility assessment
 - **Stakeholder consultations (April - May 2019)**

Current state: Pilot sharing



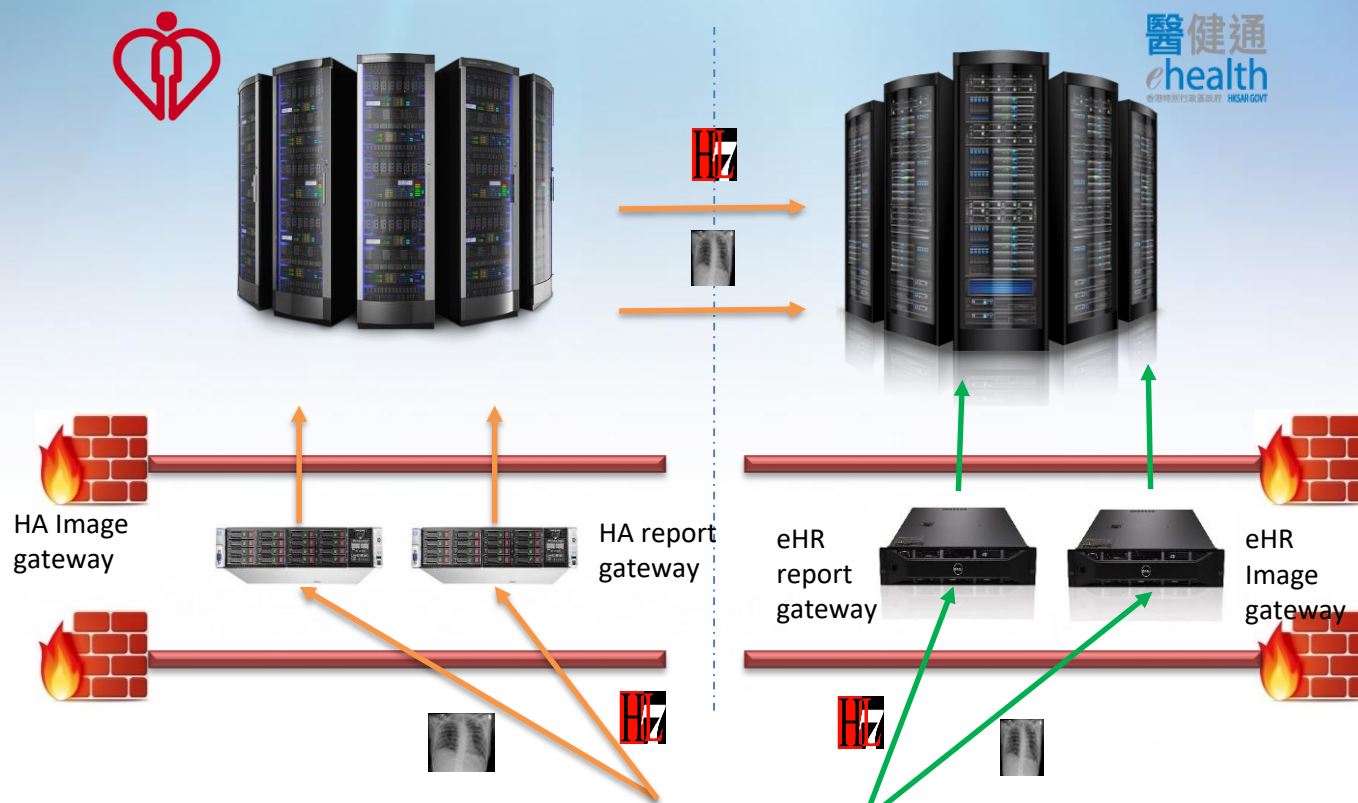
*HA referral Case



Private Hospital /
Radiology Centre



When eHR platform is ready for Images



*eHR cases

←

*HA referral Case

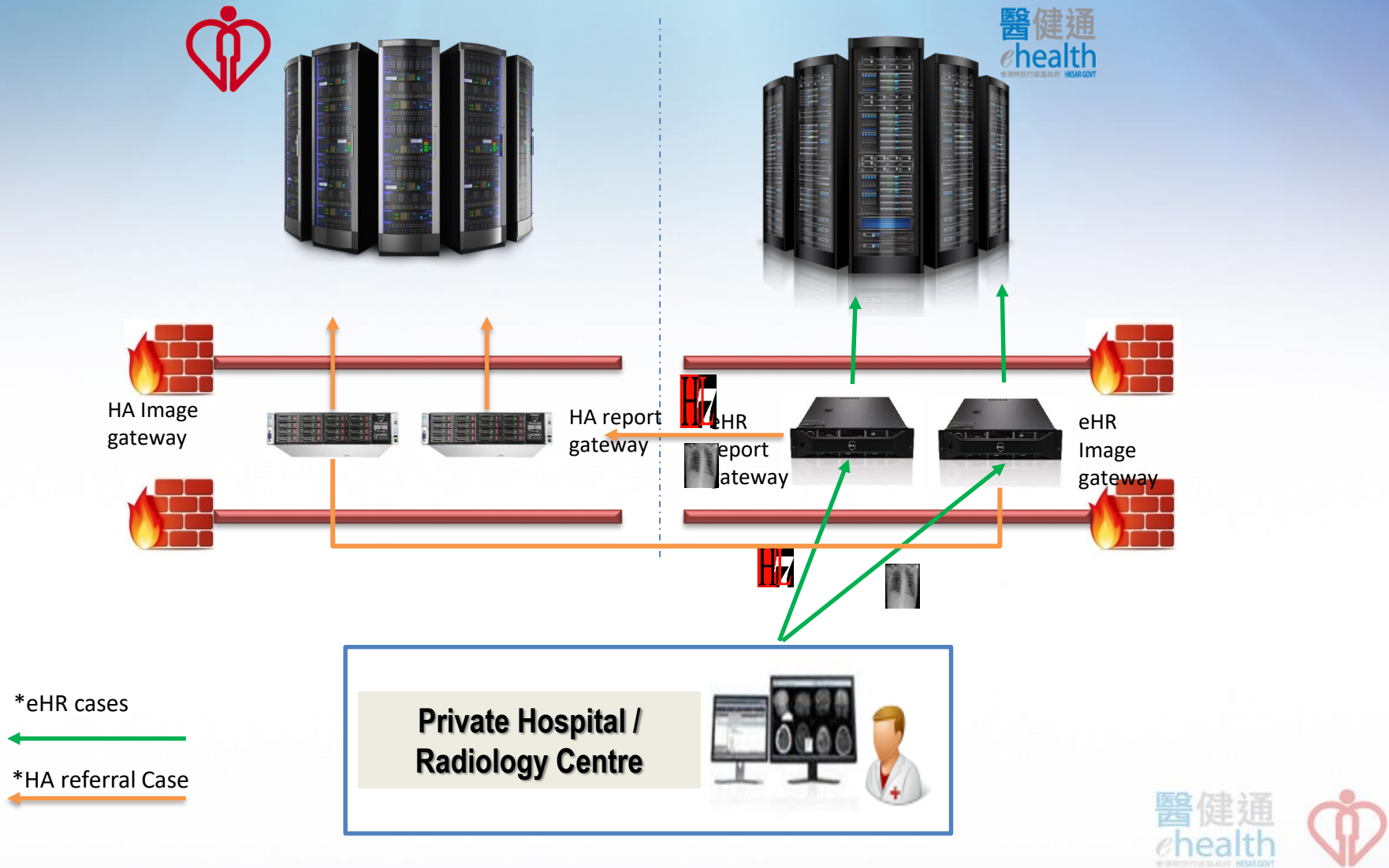
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Private Hospital /
Radiology Centre



Strategy: All cases sent to eHRSS

> HA referred cases will be provided to HA



Advantages of this Migration Strategy

Private hospitals/Radiology centers

1. No duplicated resources for maintaining TWO interfaces
2. Simplify workflow - minimize error/no signing of consent

Provides a single multi-directional platform for radiology image sharing

Existing sharing across “Private-Public Interface” can be maintained

next session..[Preparation Work for Migration]