Radiology Image Sharing

Seminar with private institutions

4th October 2011

eHR Interface Pilots

- Radiology Image Sharing

  - Purpose :

    - Test the connectivity on radiology sharing
    - Pave way for eHR

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Radiology Image Sharing

- Project Implementation
  - 2009 to 2011 (4 Private Institutions)

(CT, MRI, PET/CT, US, X-Ray, Breast Imaging, Fluoro/Contrast X-Ray)

• HK Sanatorium Hospital	Jan 2009
• St Teresa's Hospital	Feb 2010
• HK Health Check & St Paul's Hospital	Jan 2011

  - 2011/12 (Up to 8 Private Institutions)

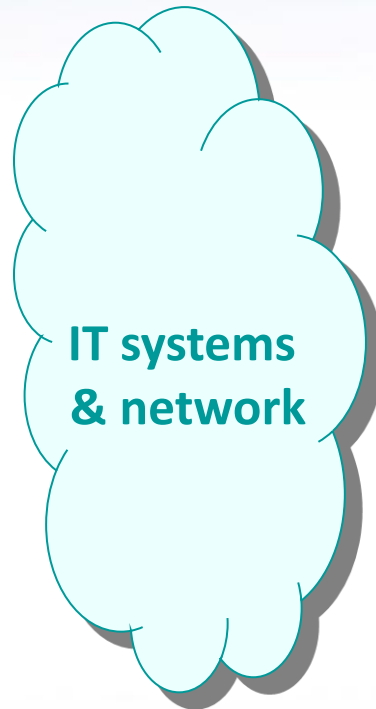|	
• Union Hospital	Aug 2011
• HKU (Dep. of Diag. Radiology)	Sep 2011
• Quality HealthCare & Bio Medical Center	Nov 2011
• Evangel Hospital & HK Baptist Hospital	Feb 2012
• Hercules Center & iRad Center	May 2012

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Radiology Image Sharing

HA

Computer request form

Private Institution

Patient consent

report

IT systems & network

Upon problem

Daily transfer

report

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Radiology Image Sharing

- Pre-requisites

  - Standards
    - HL7 version 2.5 XML
      - Embed Radiology Report in pdf

    - Radiology images in DICOM 3.0

  - Network
    - IP Sec VPN

  - Ability to register
    - Using 2-D barcode

XML sample
<PATIENT>
<HKID> M7664082</HKID>
<ENAME>YU, LONGAN</ENAME>
<SEX>M</SEX>
<DOB>20/04/1961</DOB>
<EDOB>Y</EDOB>
<CASENUM> HN060000132</CASENUM>
<ORNUM>VH OR061001123X</ORNUM>
<DUMMY></DUMMY>
</PATIENT>

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Radiology Image Sharing

- Pre-requisites (continued)

  - Patient Identification
    - HKID
    - Name in English
    - Sex
    - Date of Birth

  - Study Identification
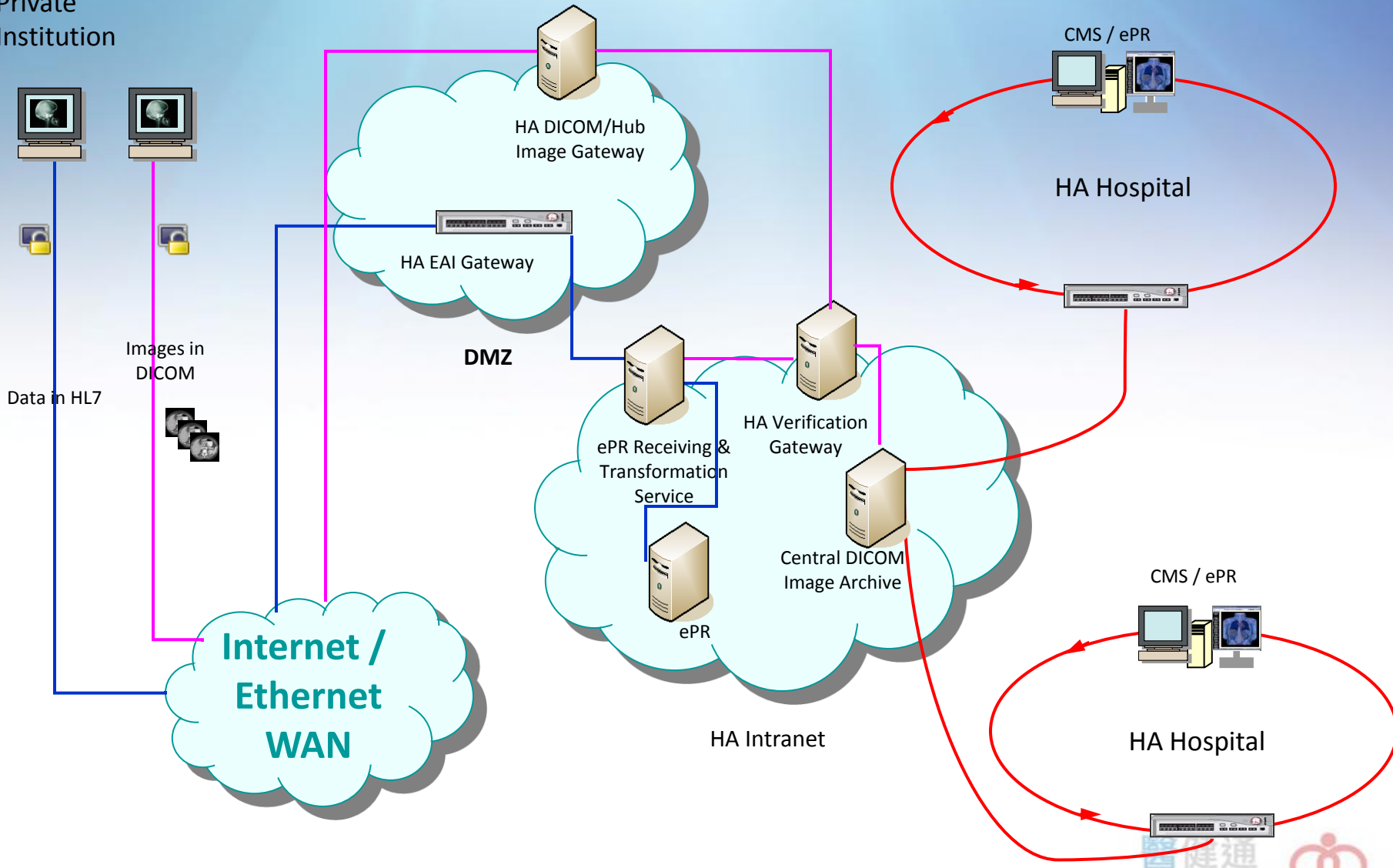   - Accession number

Accession Number Format

"Accession Number" is a 16-character string, in which it consists of hospital code, department code, year and a running number.
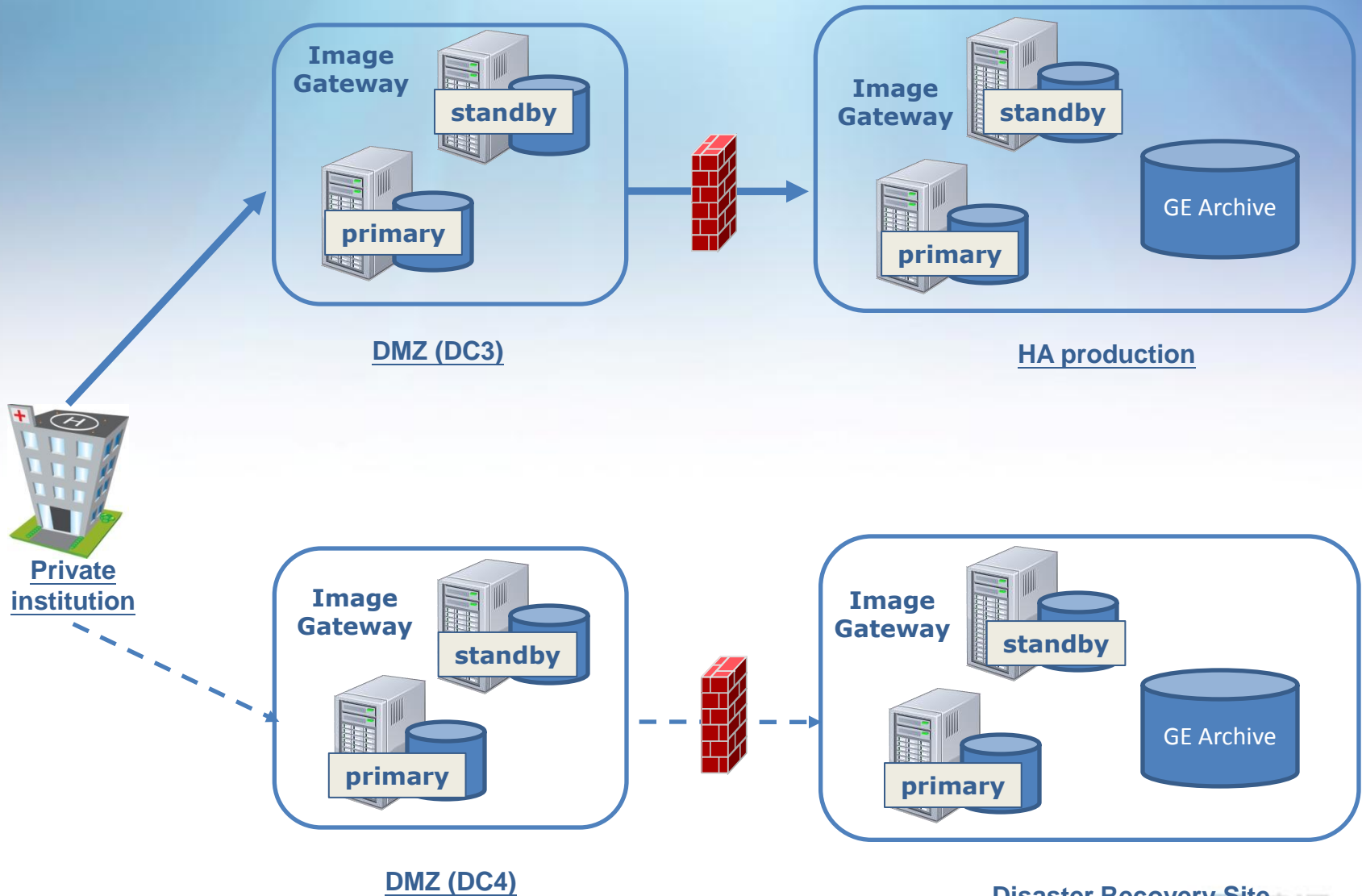
Example : STHSD1100050082F
- Hospital code : STH
- Department Code : SD
- Year : 11
- Running Number : 00050082
- Check digit : F (Generated by a seed assigned by HA)
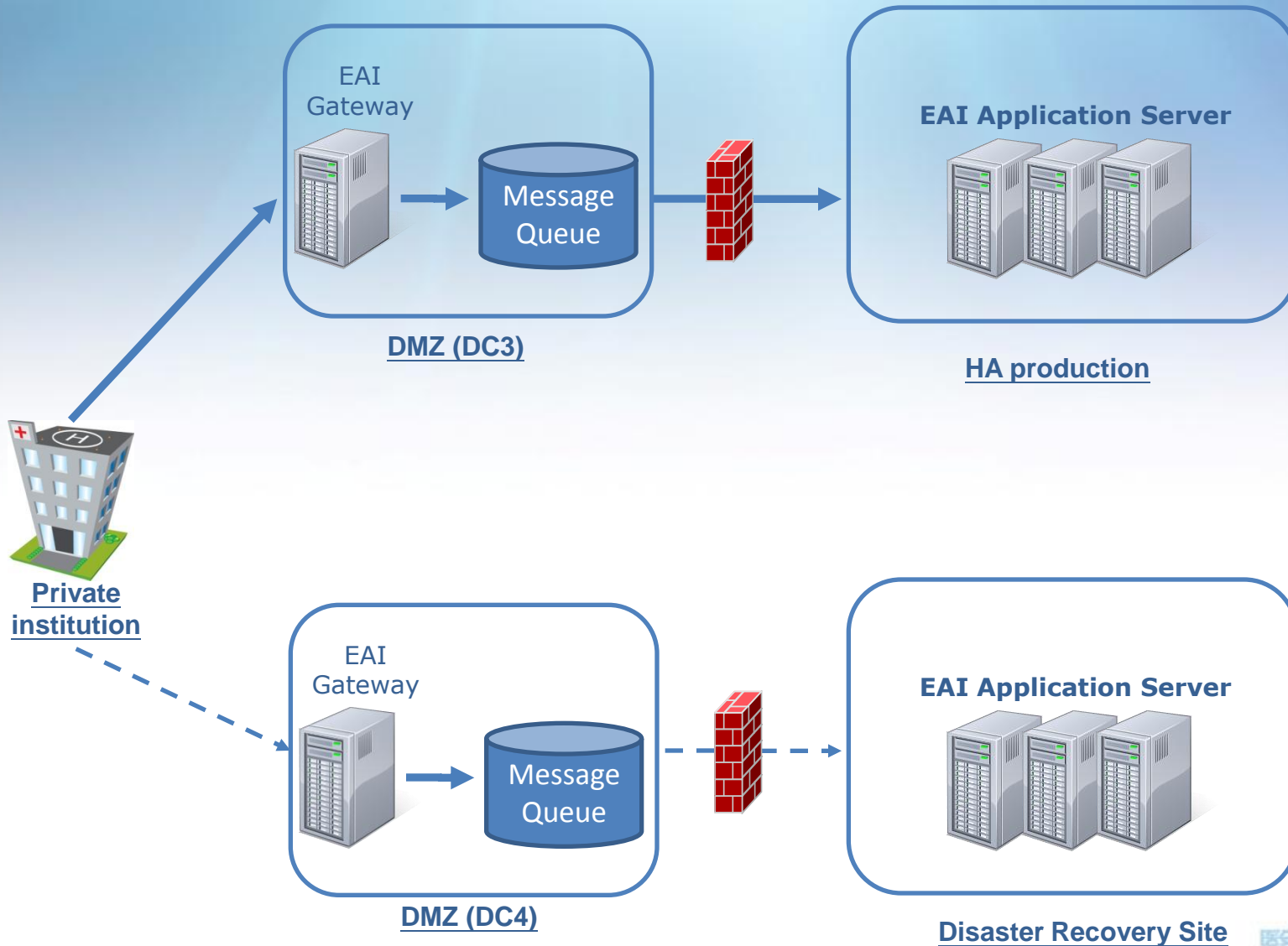
Radiology Image Sharing

Radiology Image Sharing – Image Gateway

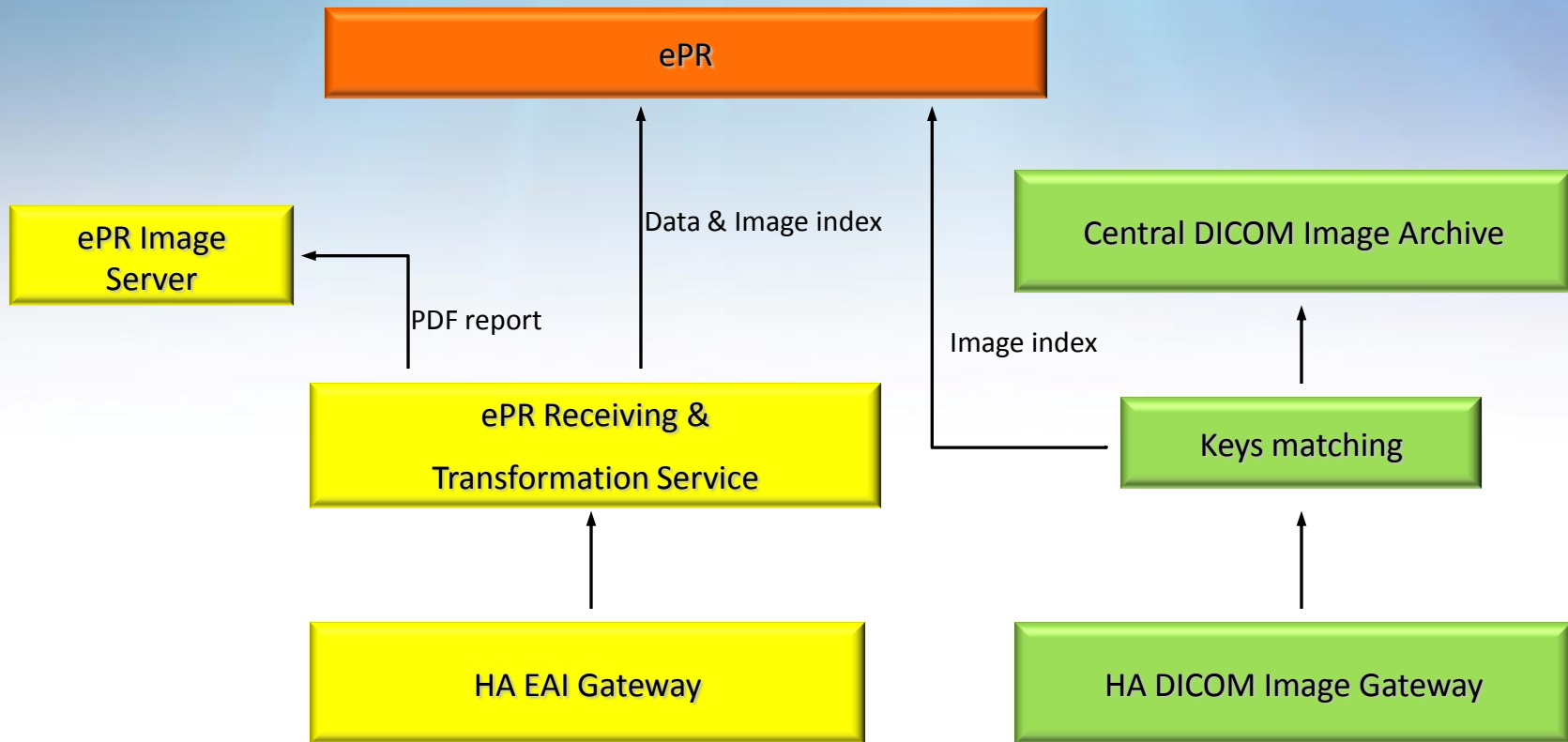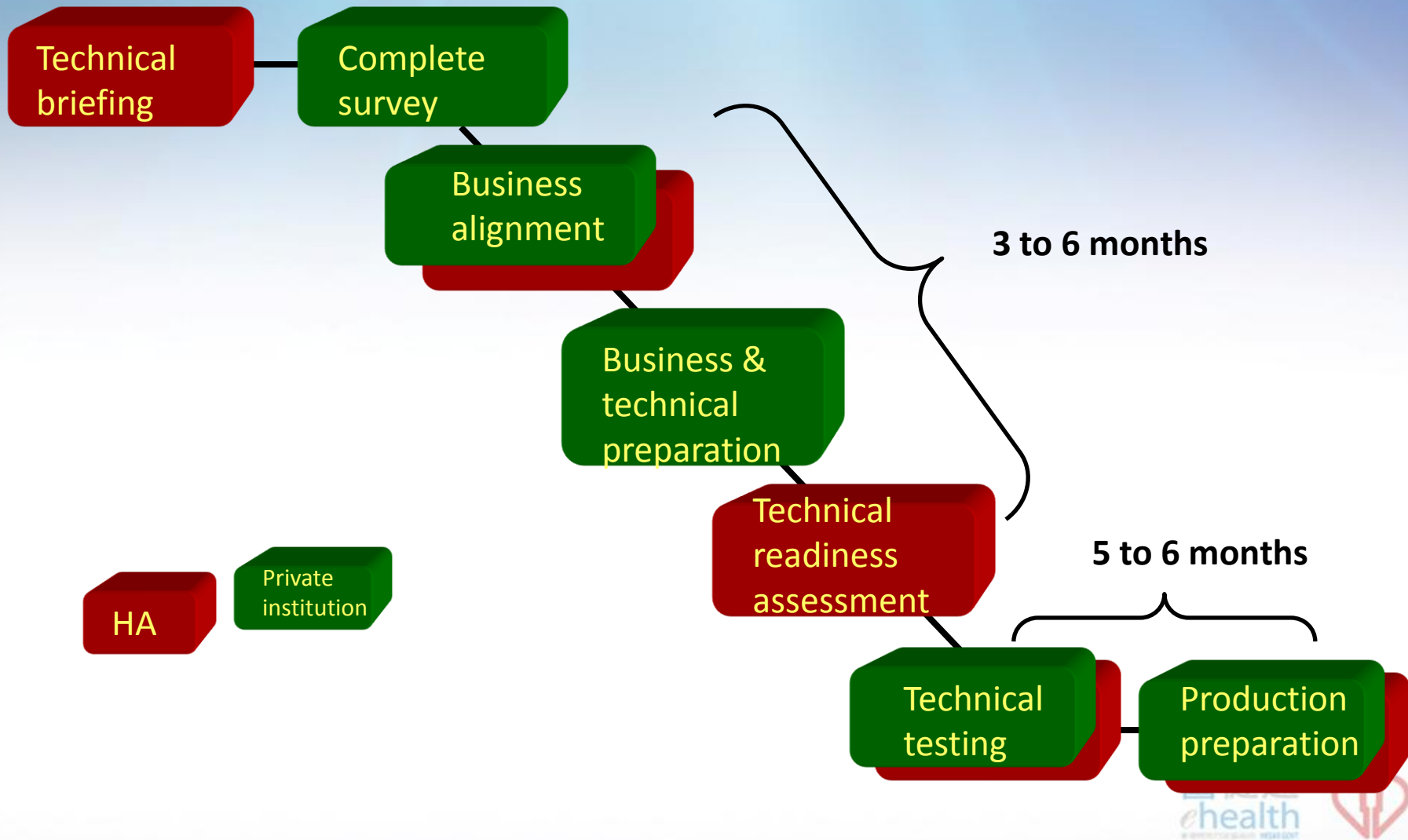# Radiology Image Sharing – EAI Gateway

Radiology Image Sharing

Radiology Image Sharing

- What's next

Technical briefing — Complete survey

Business alignment

Business & technical preparation

Technical readiness assessment

3 to 6 months

5 to 6 months

Technical testing — Production preparation

HA

Private institution

THE END