

# Vanuatu X-Ray Imaging system

Mauna Project

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# X-Ray System building blocks

**Portable X-Ray unit - produces X-Rays**

**Imaging system - Radiology Information System and Digital image processing**

**Imaging reporting & storage via local DICOM station (PC) and printer??**

**Radiology doctor reports & send Image to PACS**

# X-Ray system building blocks

**X-Ray Tube**

**X-Ray Generator**

**Collimator**

**Detector (CR or DR)**

**Computer with RIS &**

**Image Processor with**

**Computer networking**



# Putting it all together



**X-Ray unit  
with RIS**



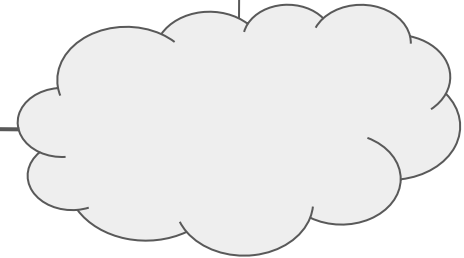
**DICOM  
Viewer**

**Doctor  
Reporting**

**DICOM over  
Ethernet comms**



**PACS  
Port Villa**



# System selection and procurement procedure

1. Preference for non motorized mobile X-Ray unit with integrated DR detector
2. Preference for locally sourced and supported system
3. Vendors CareStream, Philips and Siemens have been asked to submit RFP
4. In the event that our funds are less than vendors proposals cost we:
  - a. May try to raise additional funds
  - b. May consider buying an used X-Ray system with CR detector from QLD Health
  - c. May consider buying a new X-Ray system from China

It is my view that:

Buying an used system from QLD Health requires more Maintenance (cost)

Buying from China (we have obtained 2 proposals) is a considerable risk

Questions: ?

Thank you