

50 shades of



Bringing technological independence to hospitals



@OrthancServer





- 1. What is the Orthanc project?**
- 2. Orthanc use cases**
- 3. Open source model**



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The problem

**33 Million
20 Million**

the full cost of burning and shipping a CD amounts to

+ - 6,5€

That's a **waste** of **130 Million €**

14% of all medical imaging exams are not required, mainly because the doctor doesn't have access to the patient's study

That's an additional

waste of **100 Million €**

What's the issue?

INTER-
OPER-
ABILITY

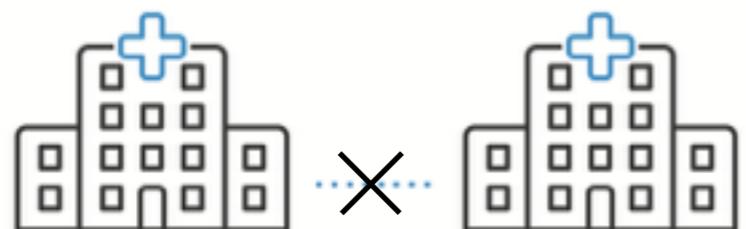
**STAND-
ARDS**

Pains

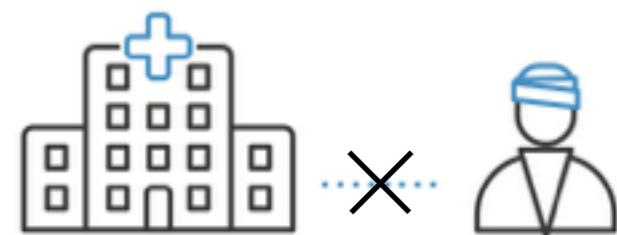
inside hospitals



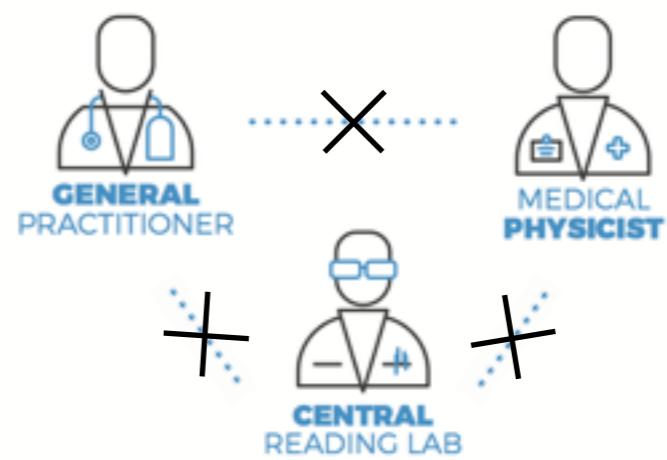
between hospitals



hospital to patient



among physicians



Current “solutions”



CDs

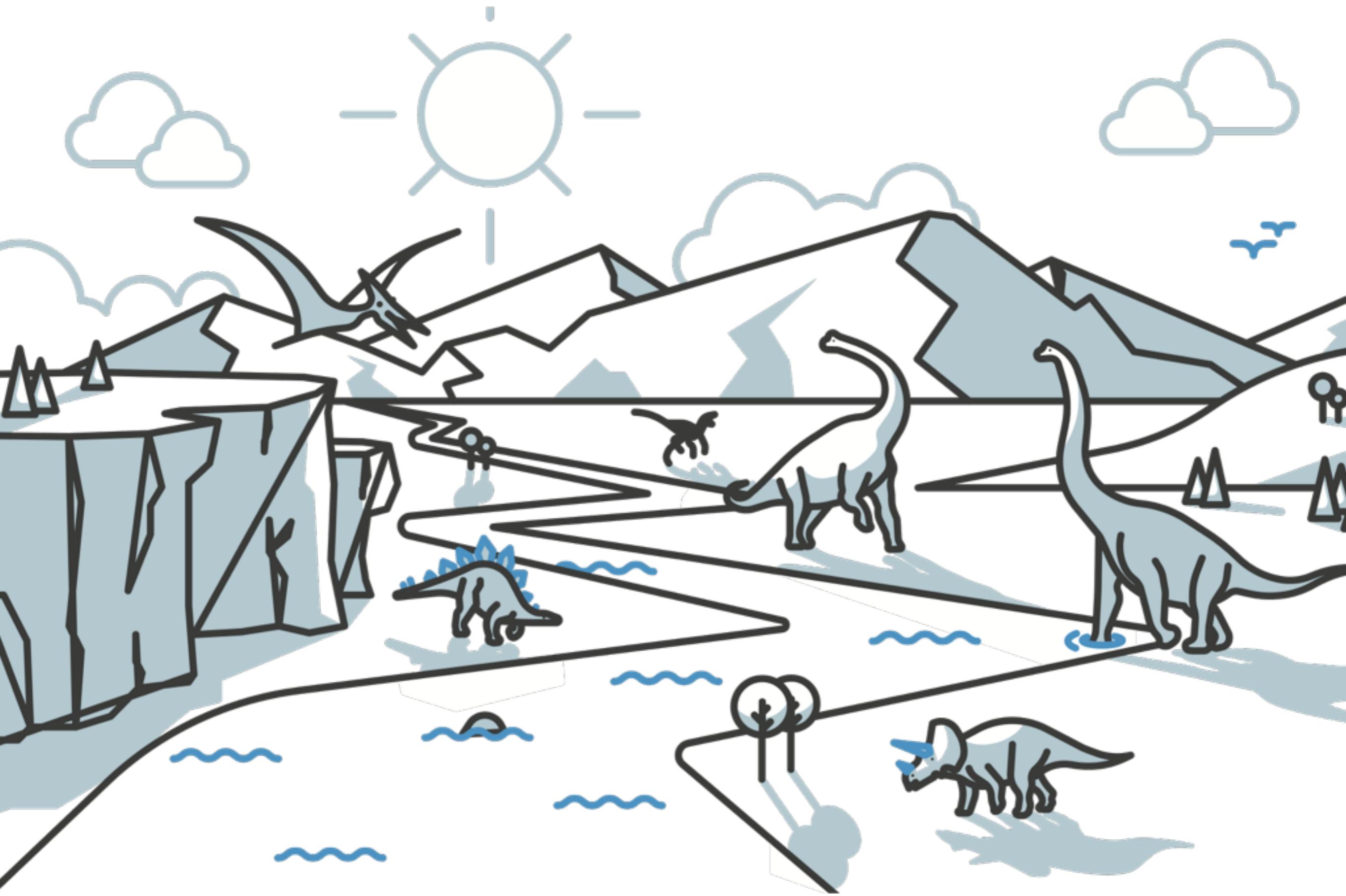


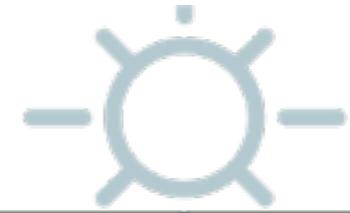
VPN
Tunnels



custom
proprietary
code

It's still Jurassic Park out there





FREEDOM



In 2011, Sébastien Jodogne, a member of the Liège University Hospital staff, started creating a medical imaging server named Orthanc to serve the needs of their radiotherapy department.

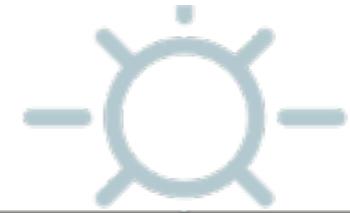


As the research for these developments had been sponsored by government funds, it was decided to open up the source code. It has been downloaded over 25.000 times ever since.

Among other awards, Orthanc was granted the 2015 Award for Advancement in Free and Open Source Software by the Free Software Foundation at the MIT in Boston.

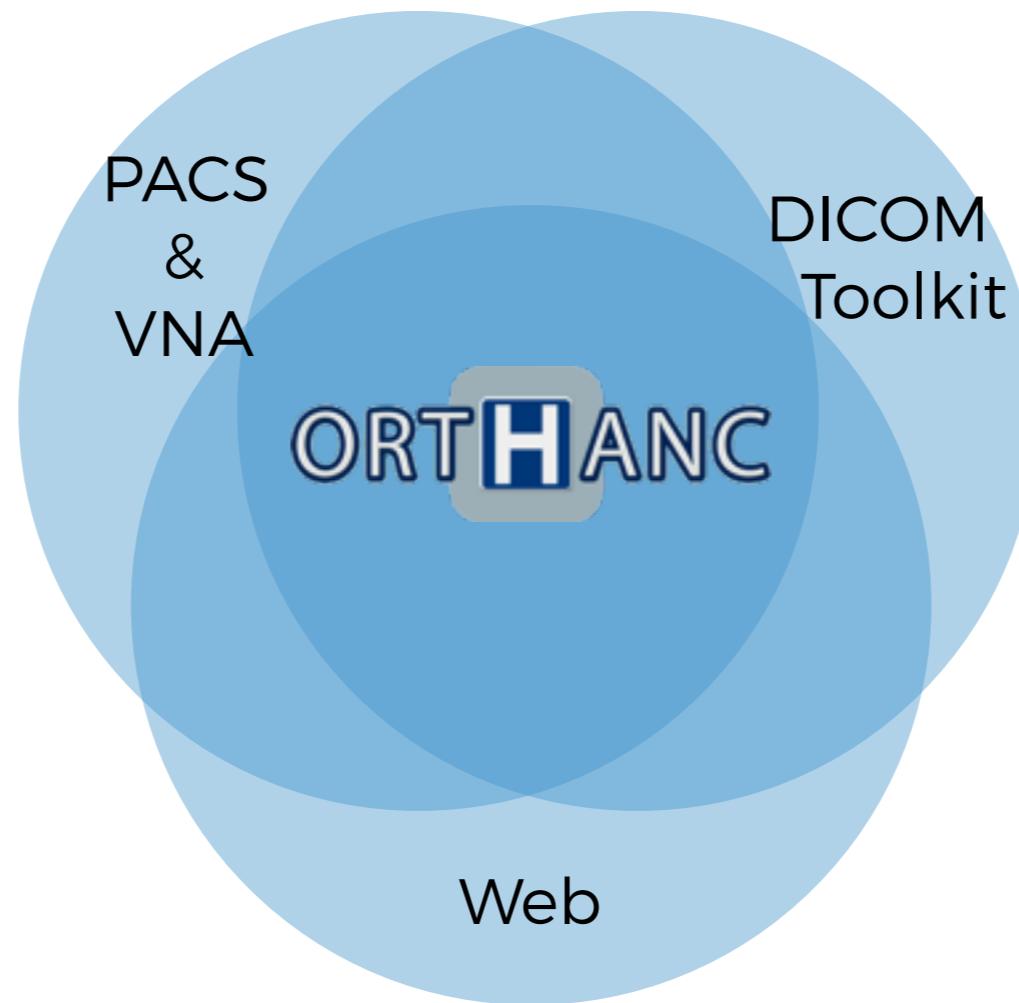


Osimis was created alongside Orthanc to help it reach a wider market. Our services and products help medical specialists and industrials the world over to innovate in the medical imaging space.



ORTHANC

Business philosophy	source type				
	interoperability	proprietary formats single platform, rarely web	DICOM + REST API multi platform, web first		
Feature scope	collect	★★★★★	our consultants are happy to assist your	★★★★★	throw anything at us
	store	★★★★★	your data is so locked in, you'll never get it out	★★★★★	you choose how you store your data
	workflows	★★★★★	with our RIS only	★★★★★	HL7
	view	★★★★★	you want excellent? we have good	★★★★★	work with partners / specialist software
	share	★★★★★	nope...	★★★★★	API
	integrate	★★★★★	beg you pardon?	★★★★★	API
Bottom line		No money, no innovation!		Open innovation	



Why people



- Open source (the community = warrant of quality)
- Interoperability & Vendor Neutrality & DICOM standard
- Standalone (app & storage all in 1)
- Cross-platform (Linux & Windows & OSX)
- Extensible (RESTful API, Lua scripts, plugins)
- Webinterface (connect from everywhere in the hospital)
- Industrial grade
- Free

1 core + 5 plugins

DOWNLOADS: 50.000

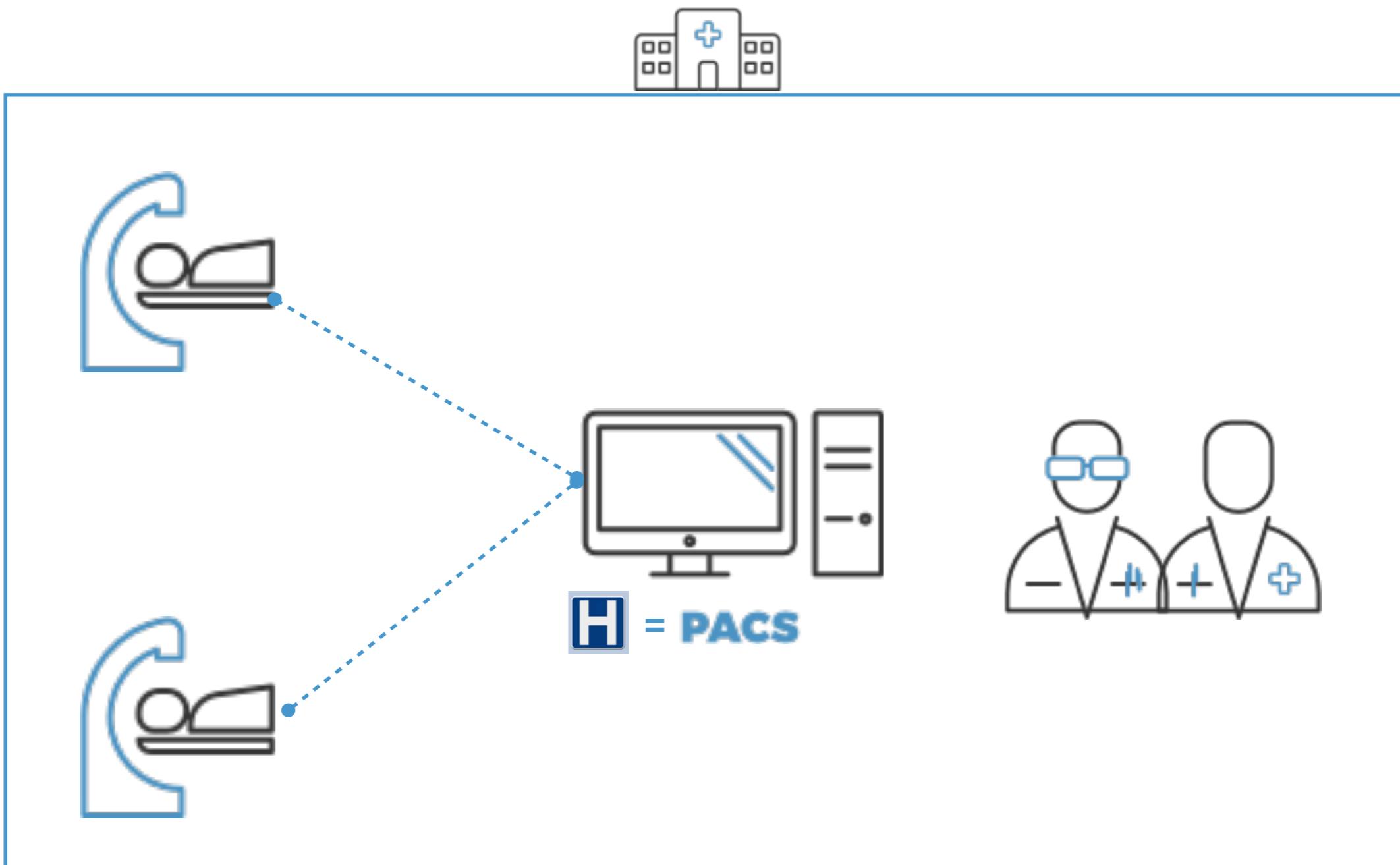
CODE STATISTICS (ACCORDING TO CLOC)

- Orthanc core : ~280 files / 100,000 lines (GPLv3+).
- Plugin - Web viewer: 12,000 lines (AGPL).
- Plugin - PostgreSQL: 10,000 lines (AGPL).
- Plugin - DICOM Web: 4,000 lines (AGPL).
- Plugin - Anapath: 10,000 lines (AGPL).
- ImageJ: 4,000 lines (GPLv3+).

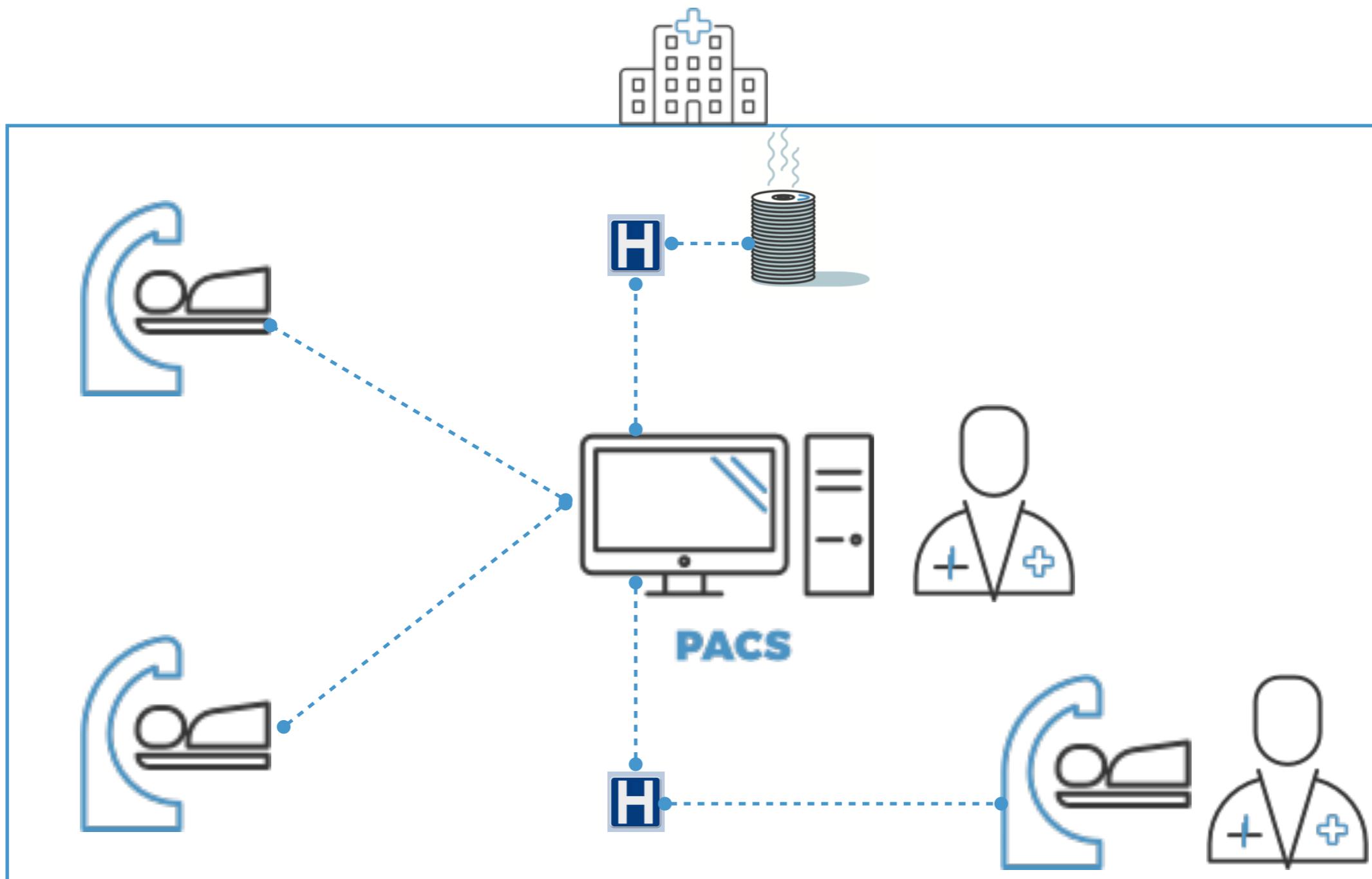


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2. **Orthanc use cases**
3. **Open source model**

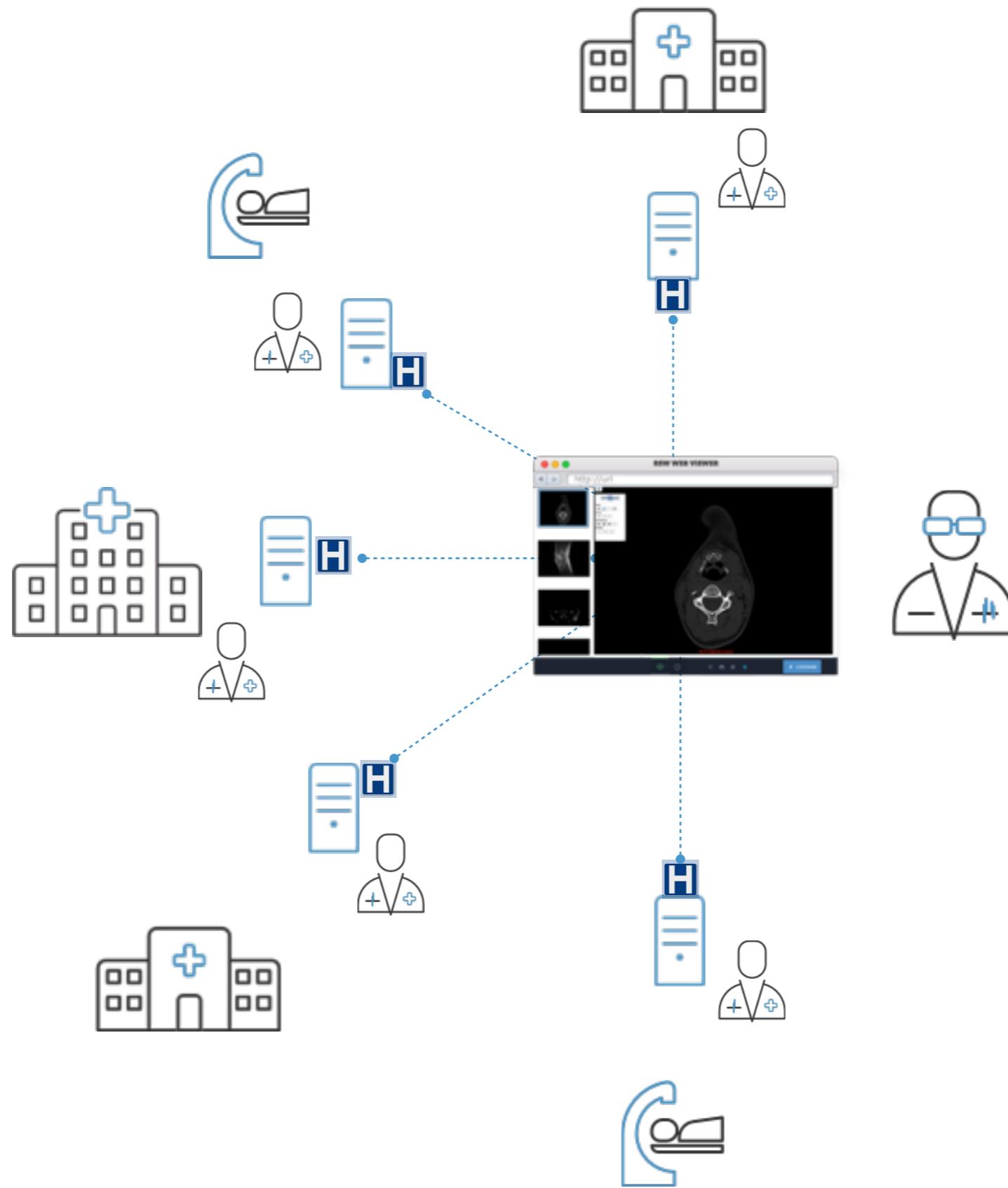
Basic clinic implementation



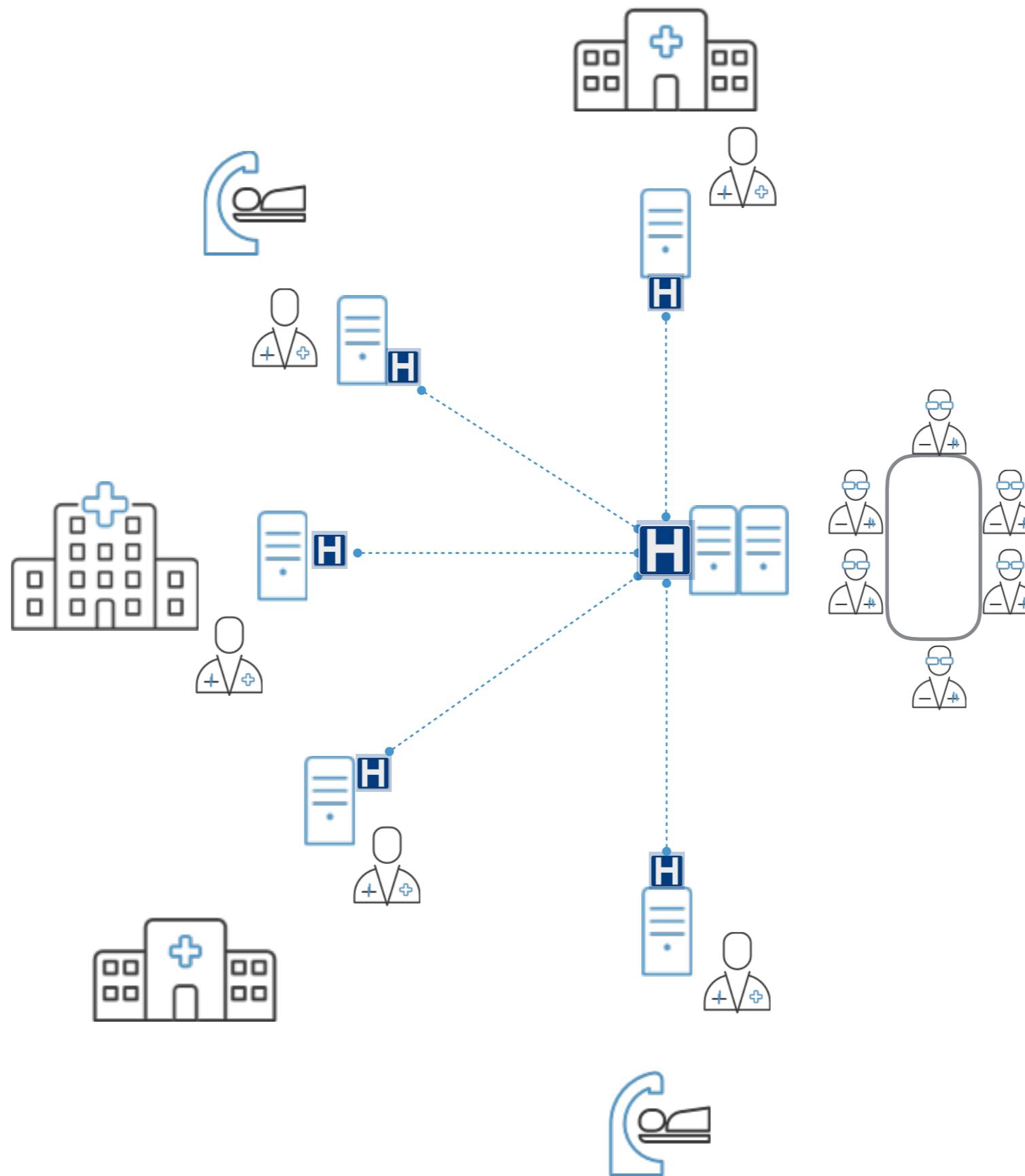
Advanced hospital implementation



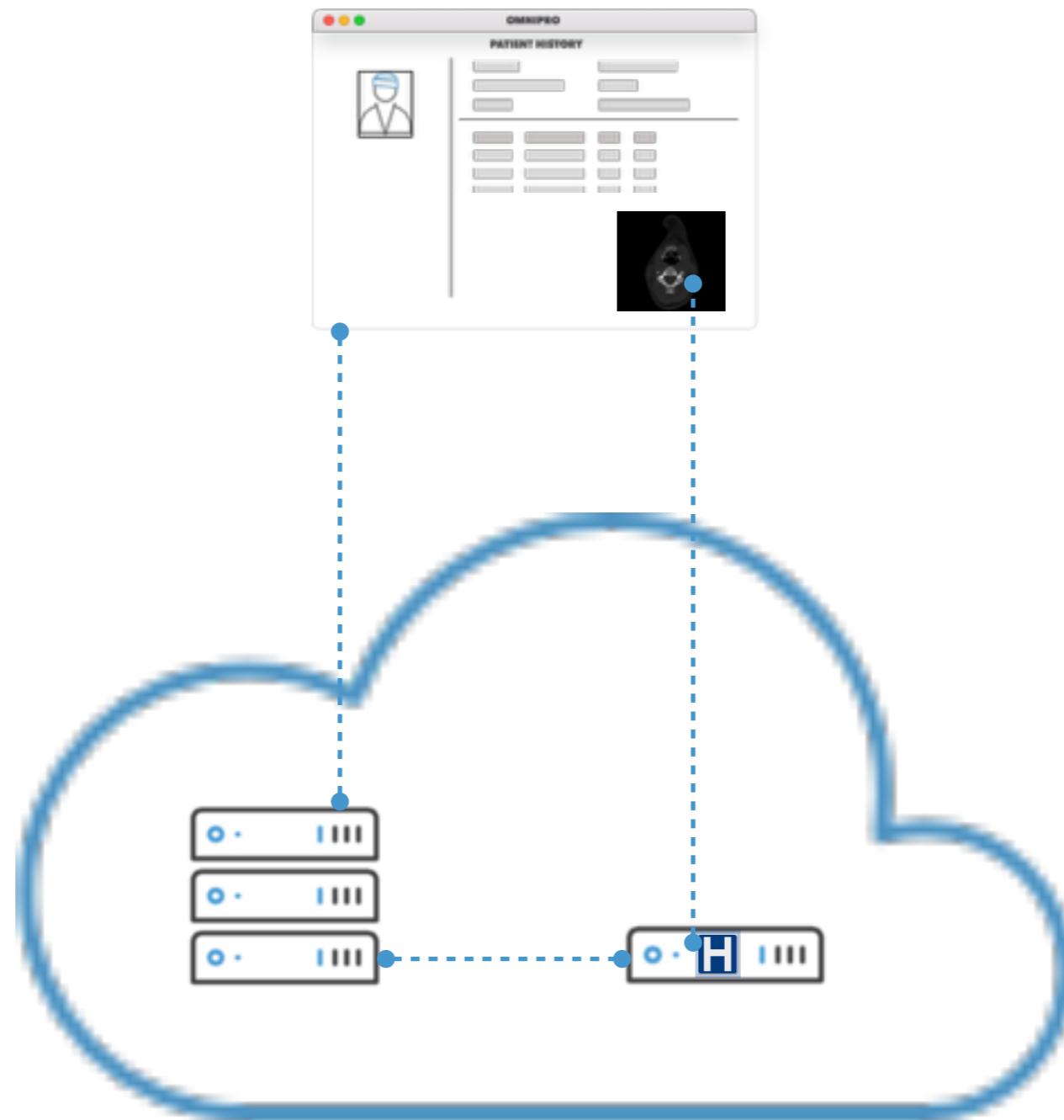
Emergency tele radiology network



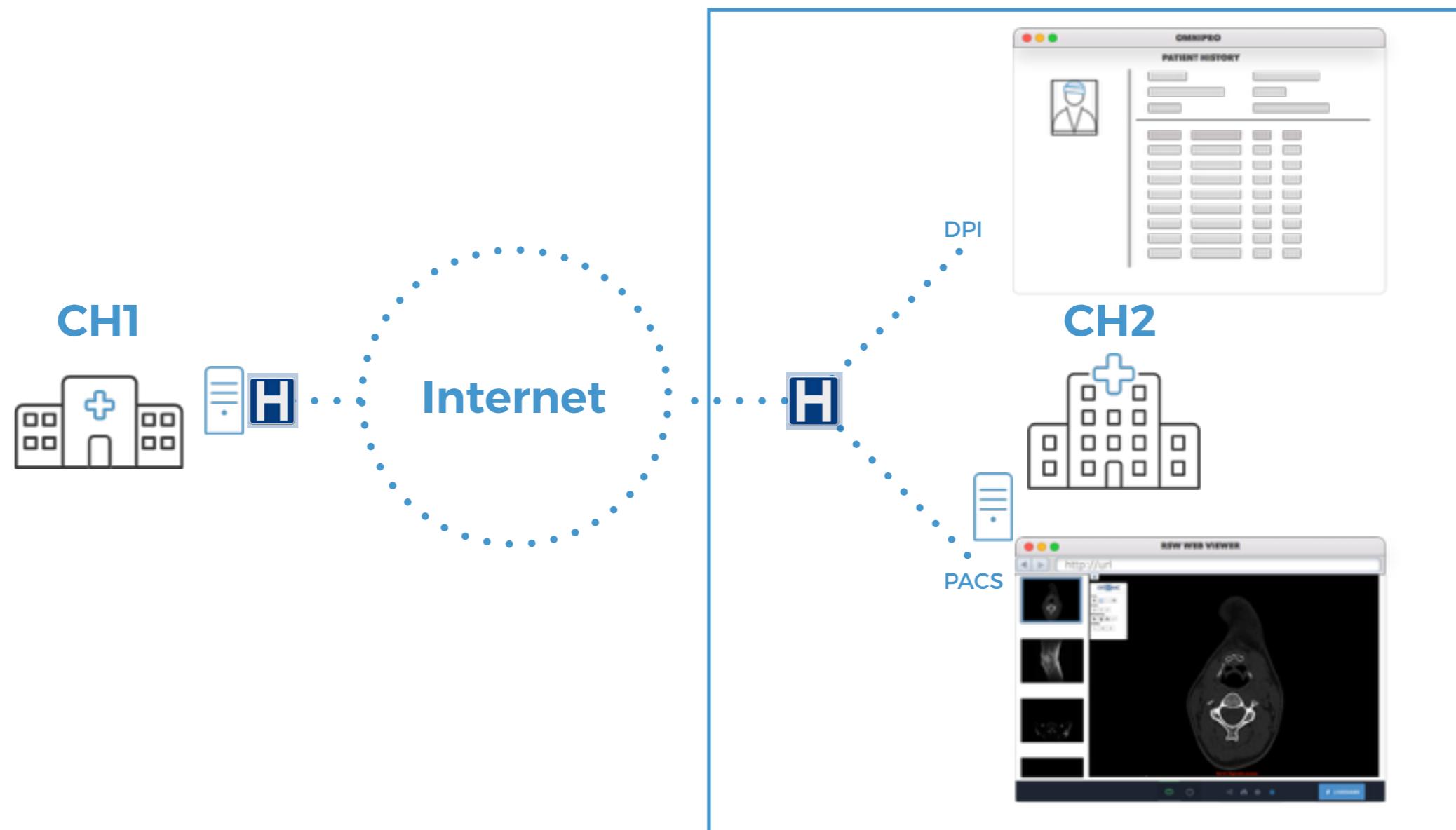
“Réunions de concertation pluri-disciplinaires”



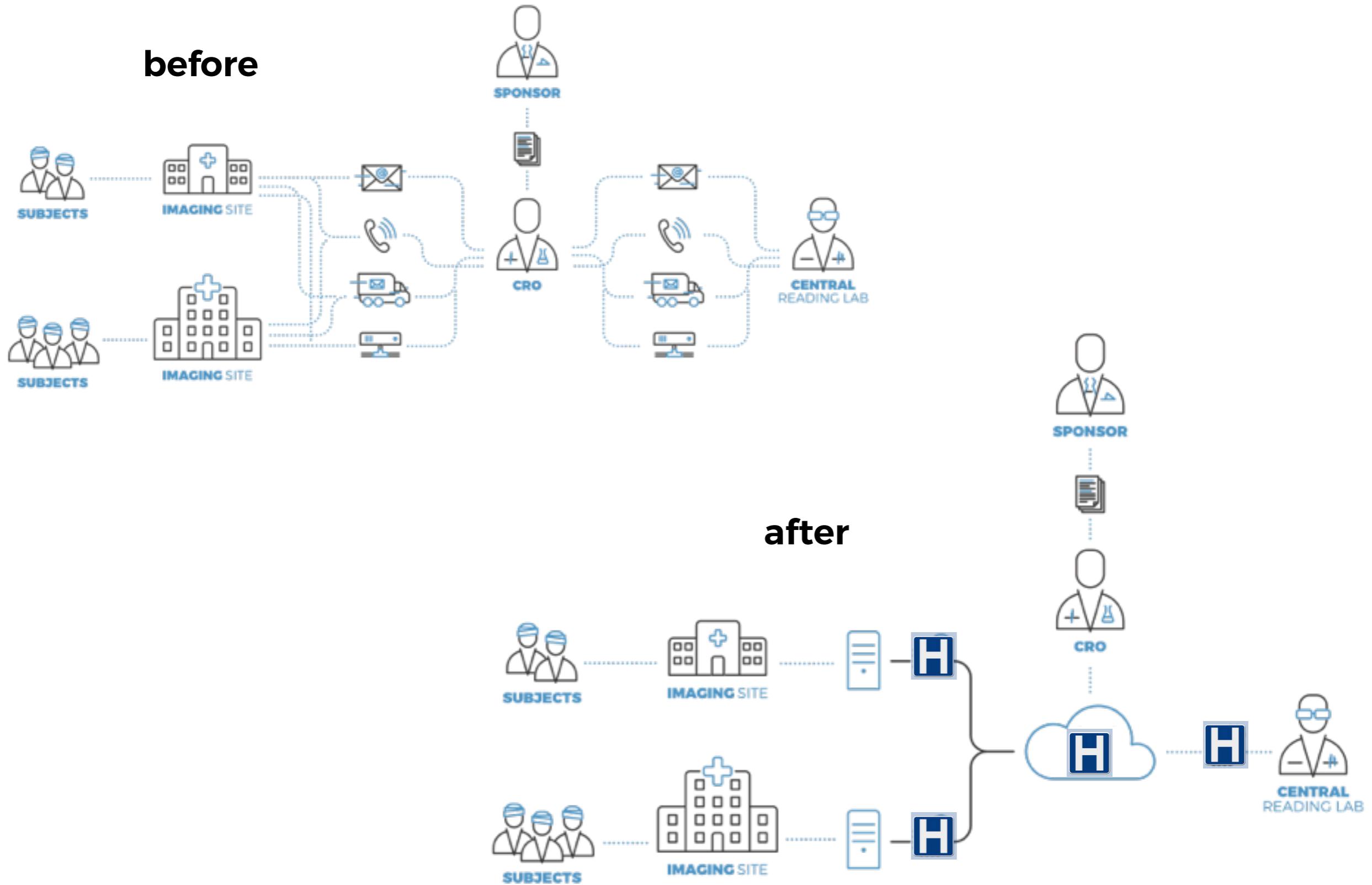
Third party web applications use Orthanc as a library & viewer

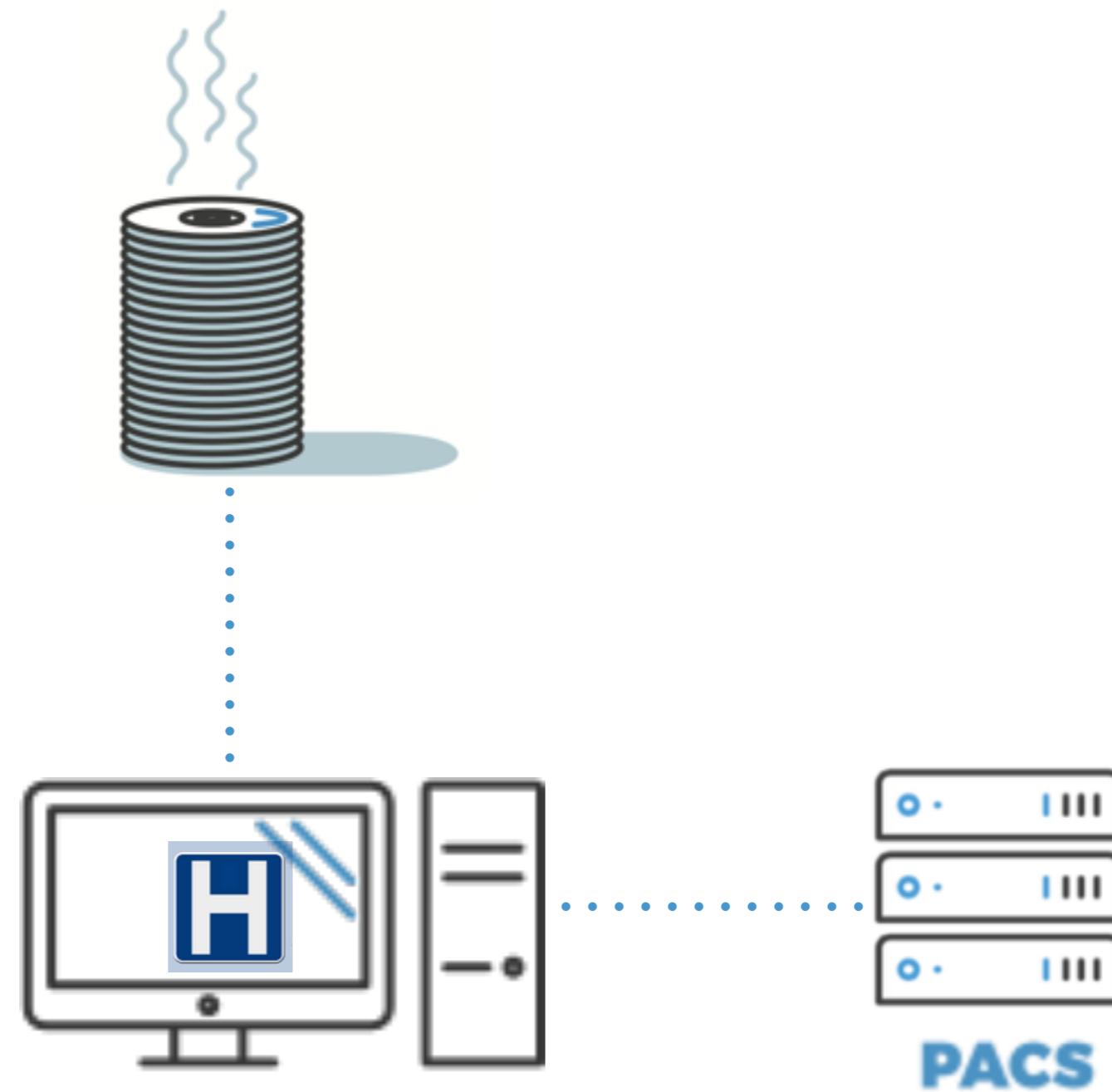


Inter-PACS exchange & reconciliation



Multi-centric clinical trials





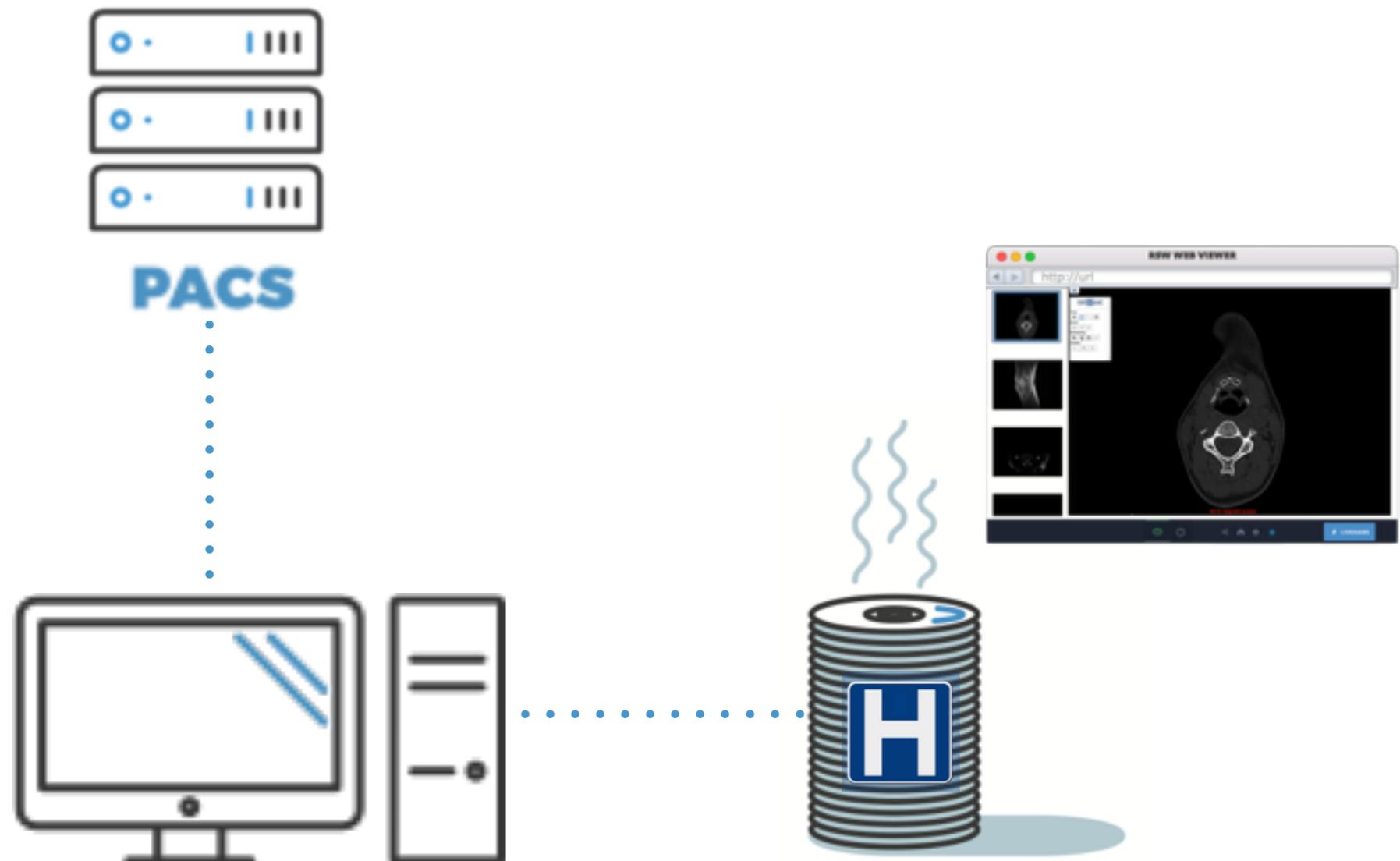
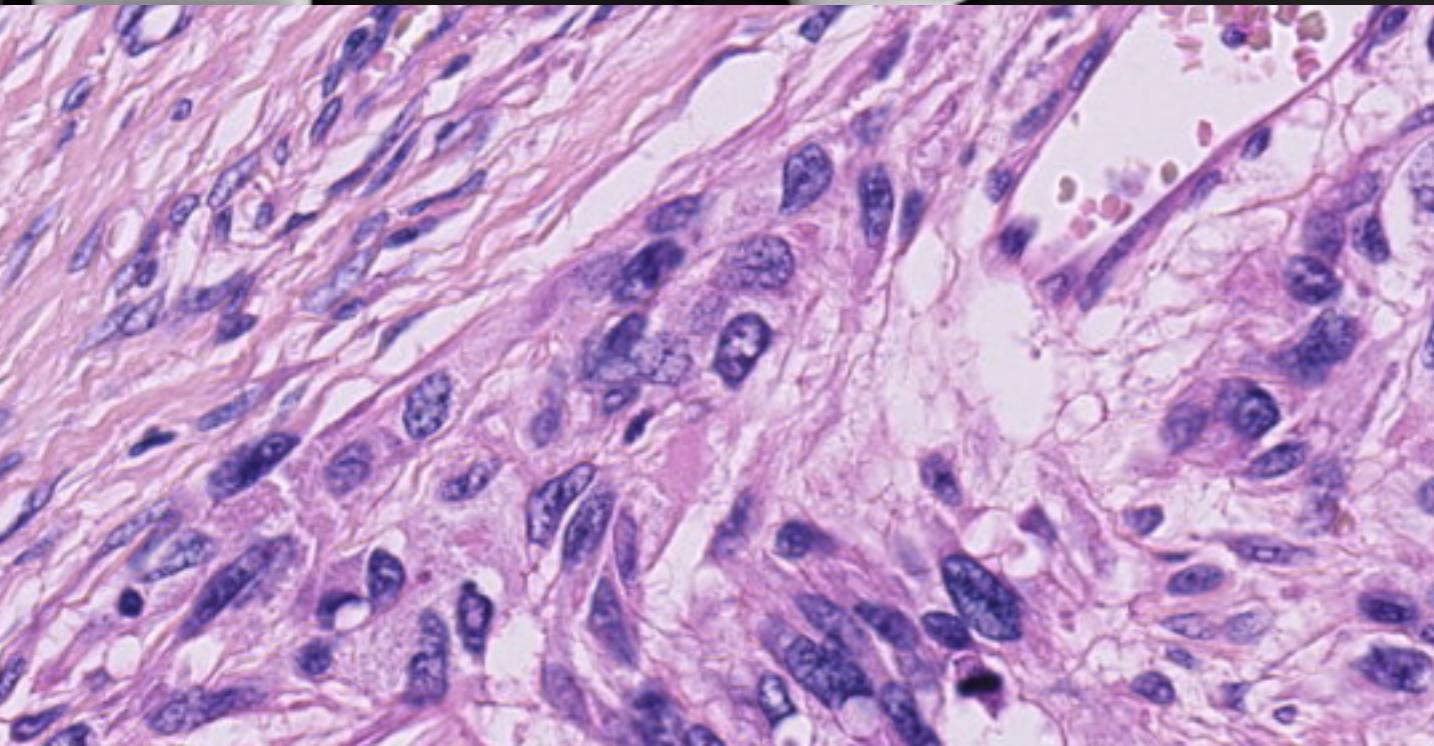
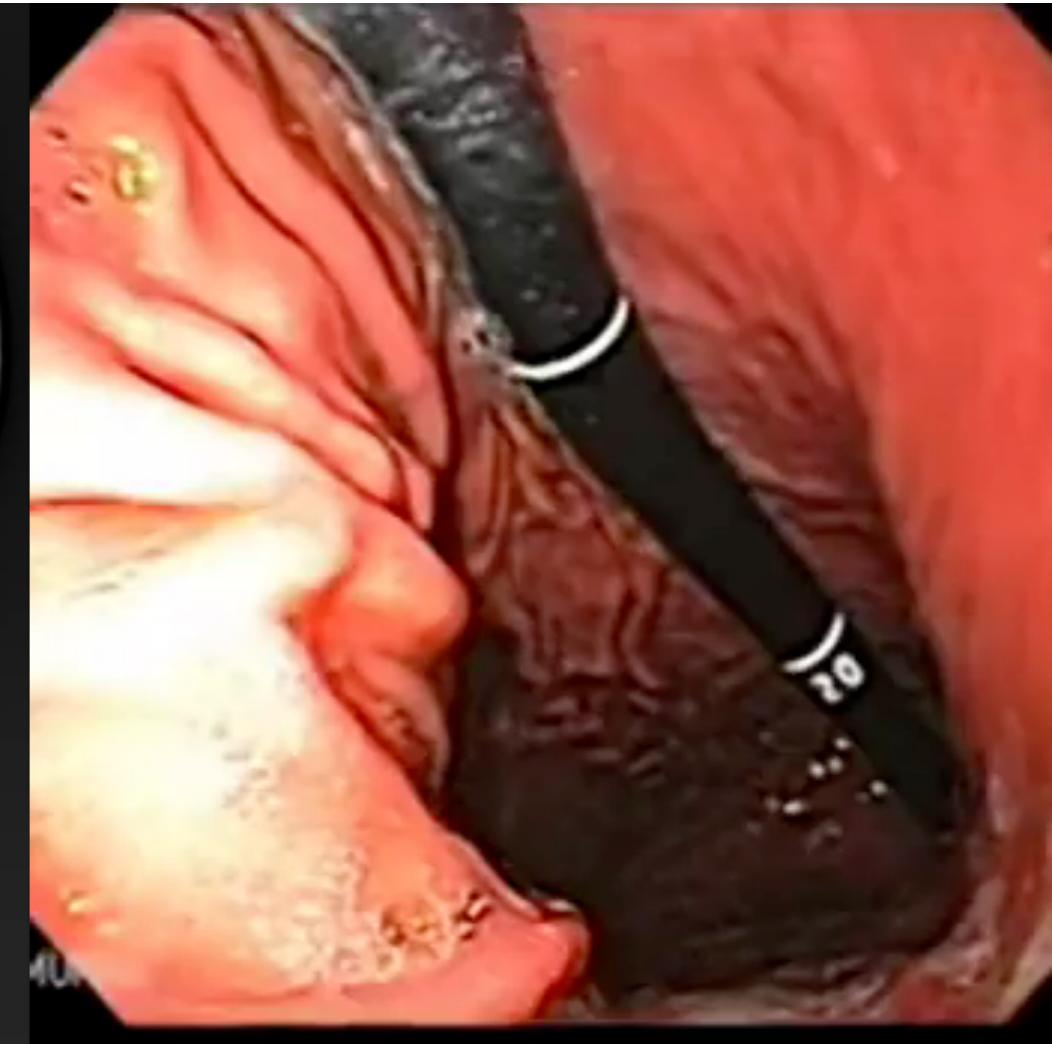
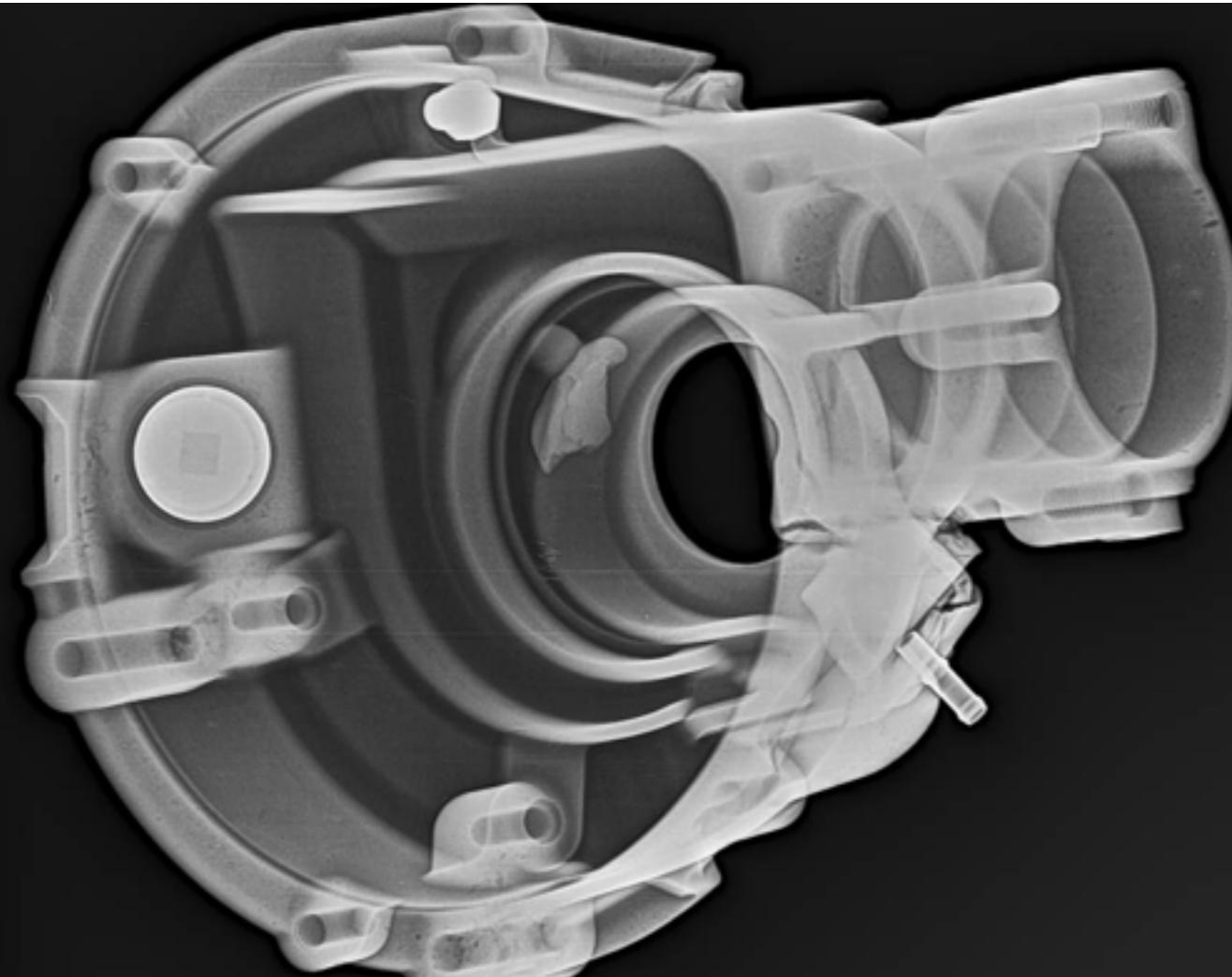
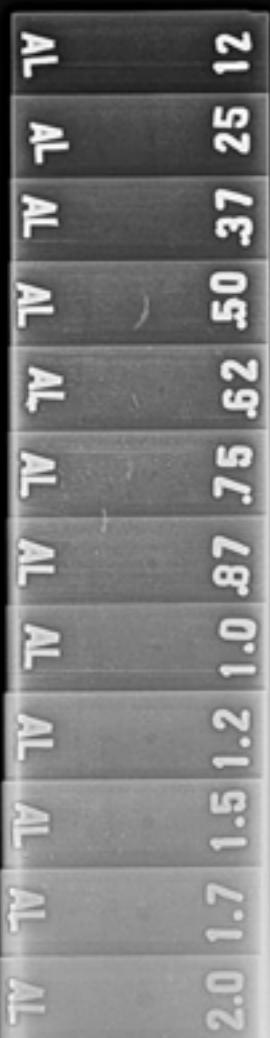
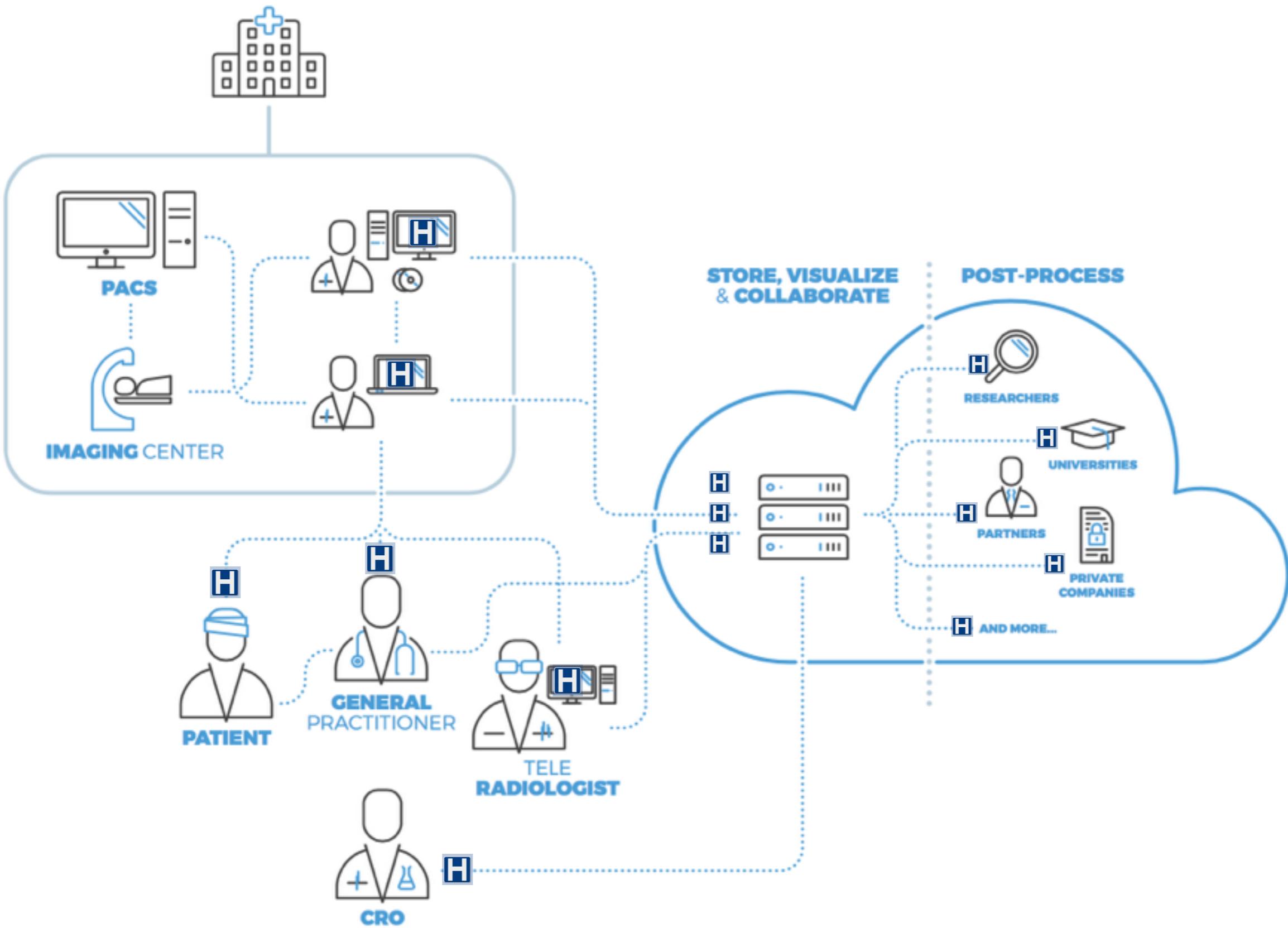


Image types → 100% of medical imaging scope





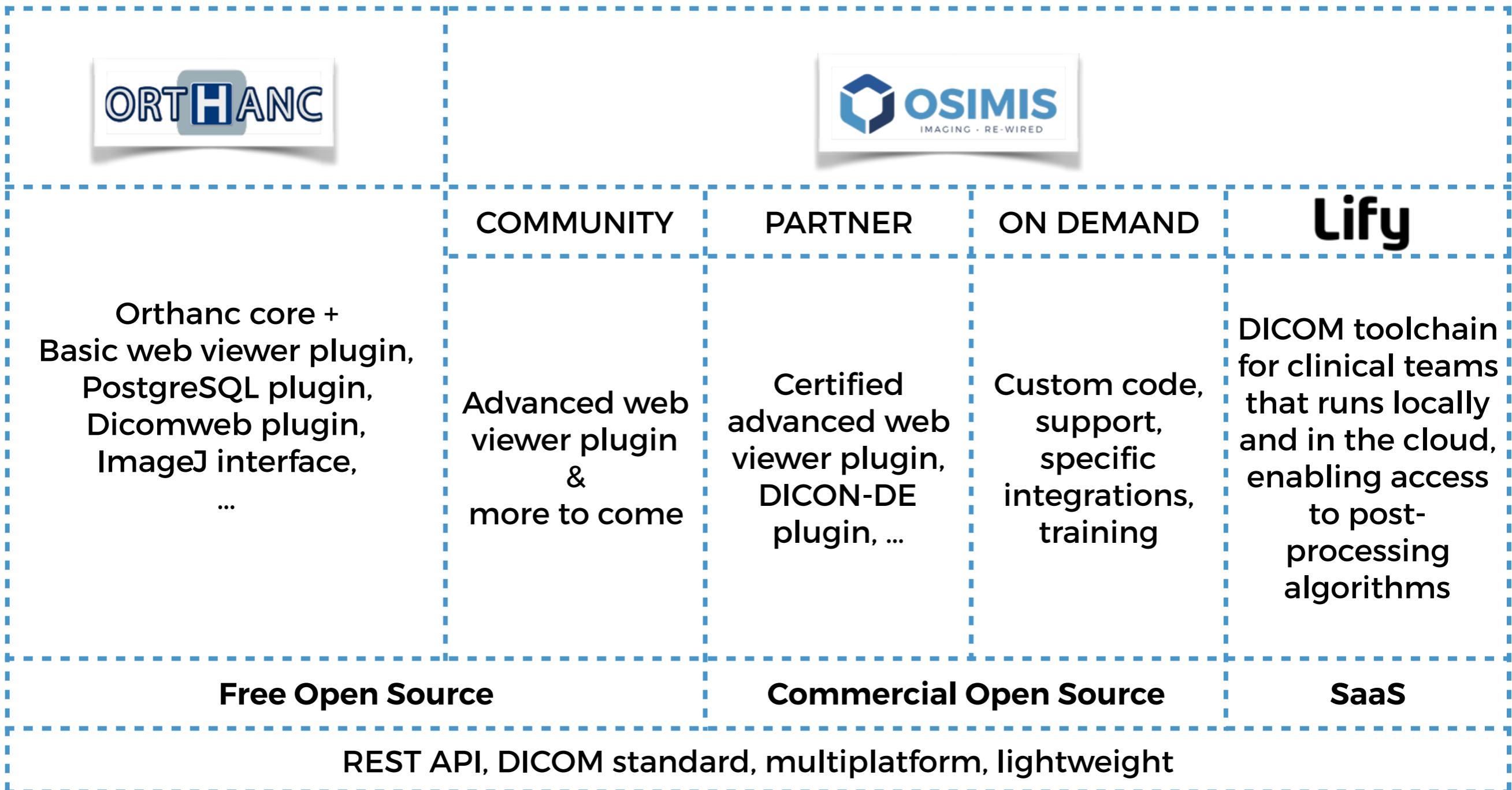


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The open source model



The open source model





orthanc-server.com



@OrthancServer



osimi.io



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