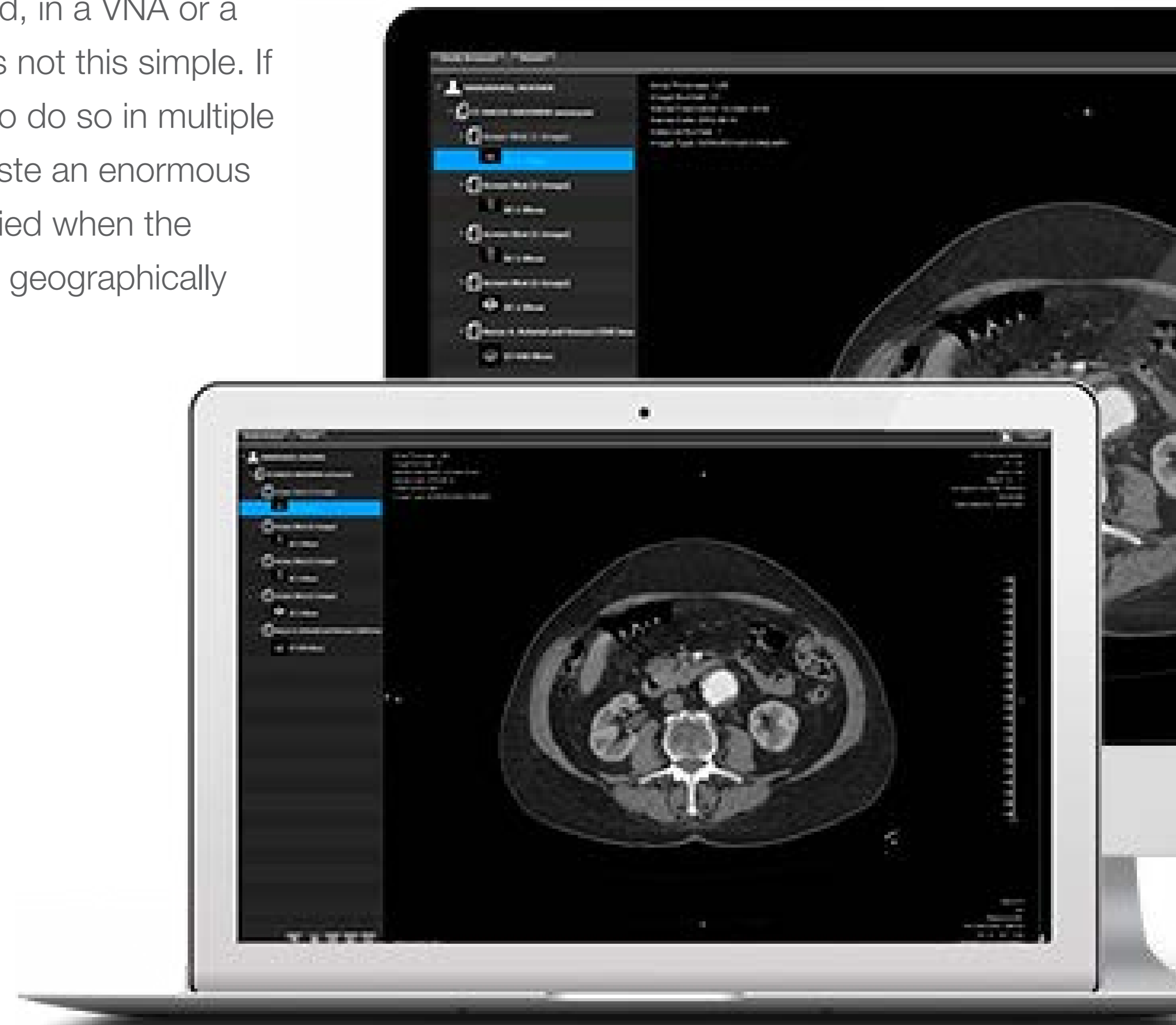


ENSURING YOUR ENTERPRISE IMAGE-VIEWER WORKS WITH CURRENT INFRASTRUCTURE

Complete interoperability enables multiple medical systems and databases to connect with one another, regardless of whether their patient data is stored in the cloud, in a VNA or a PACS system. Unfortunately, the current state in healthcare enterprises is not this simple. If a physician wants to access pertinent information, they frequently need to do so in multiple systems, which contain patient records. This causes the physician to waste an enormous amount of time logging in and out of each system. The problem is amplified when the practitioner must search for images or records in a different facility that is geographically removed from their own.

To overcome this situation, your enterprise viewer must have the ability to fit within the current IT environment, leveraging current systems and integrate with your PACS, VNA or EMR without having to duplicate or move data throughout the enterprise.

This guide describes the challenges of interoperability in healthcare enterprises and how these challenges can be overcome.



The biggest challenges in accessing images

Radiologists, neurologists, cardiologists, orthopedic surgeons, and other occasional users are struggling to gain full access to the right images, at the right time. What makes it so difficult for images to be accessed?

Images stored in many different systems

Images and reports are regularly stored in multiple PACS, from multiple vendors and additional information is being loaded into VNAs and EMRs where patients' digital charts live. Many of these systems have unique storage structures, so users are left dealing with a wide range of stand-alone interfaces.

Multiple image viewer

Many archives have different viewers or applications to access images. This makes it difficult on a user because they are required to learn multiple interfaces.

Fragmented access

Users may not have access to a particular system and they would be required to call another department or clinic to access the information. Clinicians believe that [better exchange of health information](#) would have a positive impact on healthcare; however, the lack of an exchange structure is a major barrier to information sharing.

Physically moving and reconciling data

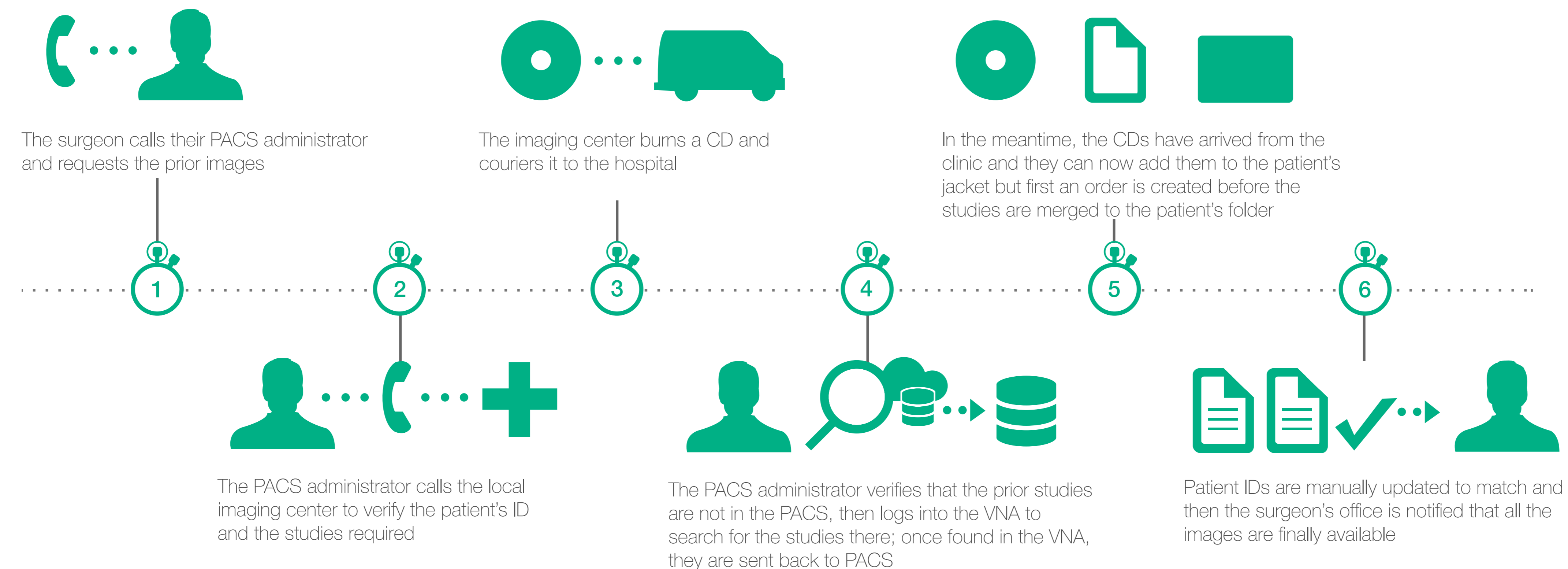
There are a large number of files being physically moved or copied unnecessarily. This significantly increases the amount of time it takes to access images and poses a huge security risk.

The time associated with users managing multiple interfaces, having fragmented access and physically moving data, equates to significant costs to the healthcare system. There is also the opportunity cost to service-based healthcare organizations that do not have the right systems in place to access information quickly. As a result, referring physicians might be reluctant to send patients to them.

Manual image transfer creates high costs

Let's look at a real-life scenario to illustrate just how cumbersome, time-consuming and costly image access really is.

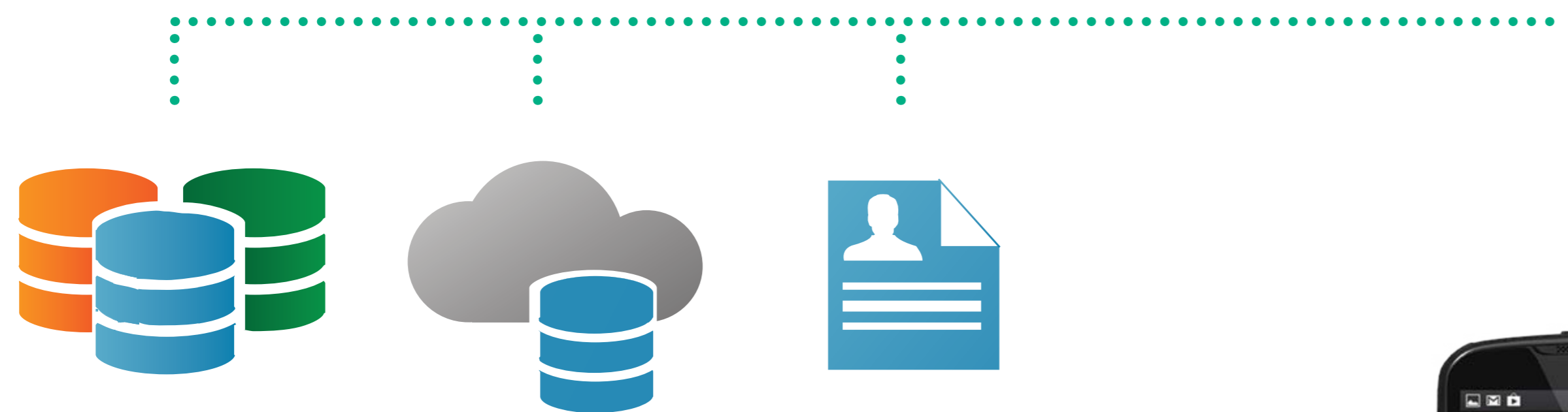
An orthopedic surgeon is following up on a patient's fracture. The follow-up and previous imaging were performed at the surgeon's academic medical center, but another previous set of images was also taken at the patient's local imaging center. The surgeon needs access to the prior images to determine patient progress - here's how that happens:



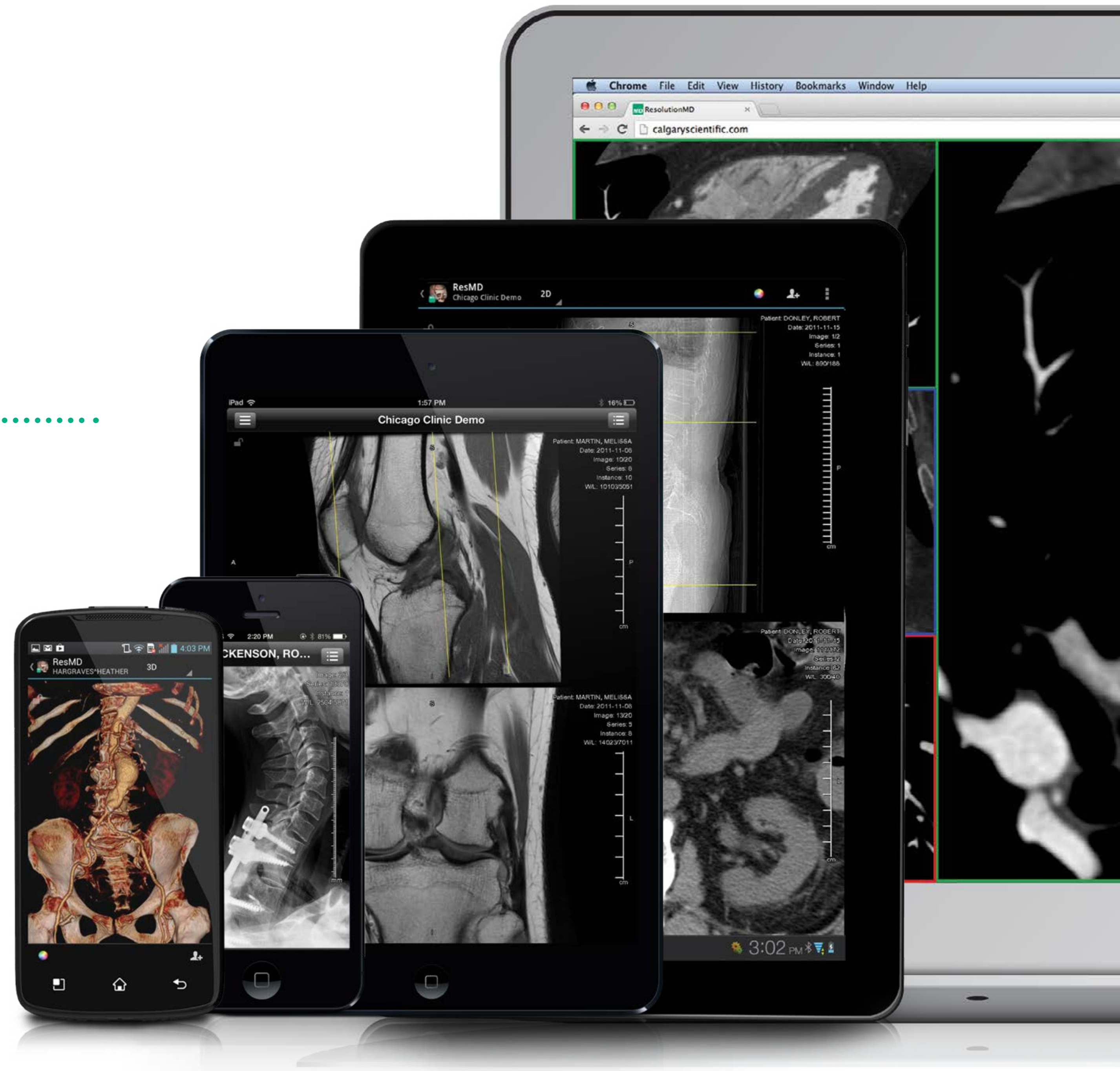
The cost implication of this inefficient approach is enormous, as this process happens multiple times a day, every day of the year.

Solving the data dilemma without the cost of new infrastructure

Organizations are looking to solve their data challenges and enable quick image access without completely re-engineering their archives. ResolutionMD from Calgary Scientific has the capability to connect multiple IT systems including PACS, VNA and the EMR.



It integrates with all user profiles across an organization allowing secure access to patient records via one simple interface. Most importantly, this can be done without investing in costly new systems or archives that can take years to implement.



The imaging picture gets a lot clearer at Intermountain Healthcare

ResolutionMD has been rolled out at healthcare institutions large and small all over the world. This is how Intermountain Healthcare solved their data dilemma:

The challenge

Intermountain Healthcare's IT organization set out to make images easily accessible to over 10,000 practitioners, referring physicians and other occasional users. With an IT environment that included multiple vendor archives, combined with different viewers, it was difficult to access and share images across the dispersed organization. They needed to connect their current archives and provide all clinicians fast, real-time access to patient images through one consistent and easy-to-use interface.

The solution

ResolutionMD was successfully integrated with the proprietary Intermountain EMR, as well as 9 data archive instances comprised of 7 PACS and 2 VNAs from a number of different vendors. A wide range of clinicians now have access to important functionality including multi-user collaboration, 3D rendering and mobile access with diagnostic capability. The integrated enterprise viewer leverages their current architecture and creates a virtual system that eliminates the need to copy or move data across the archives.

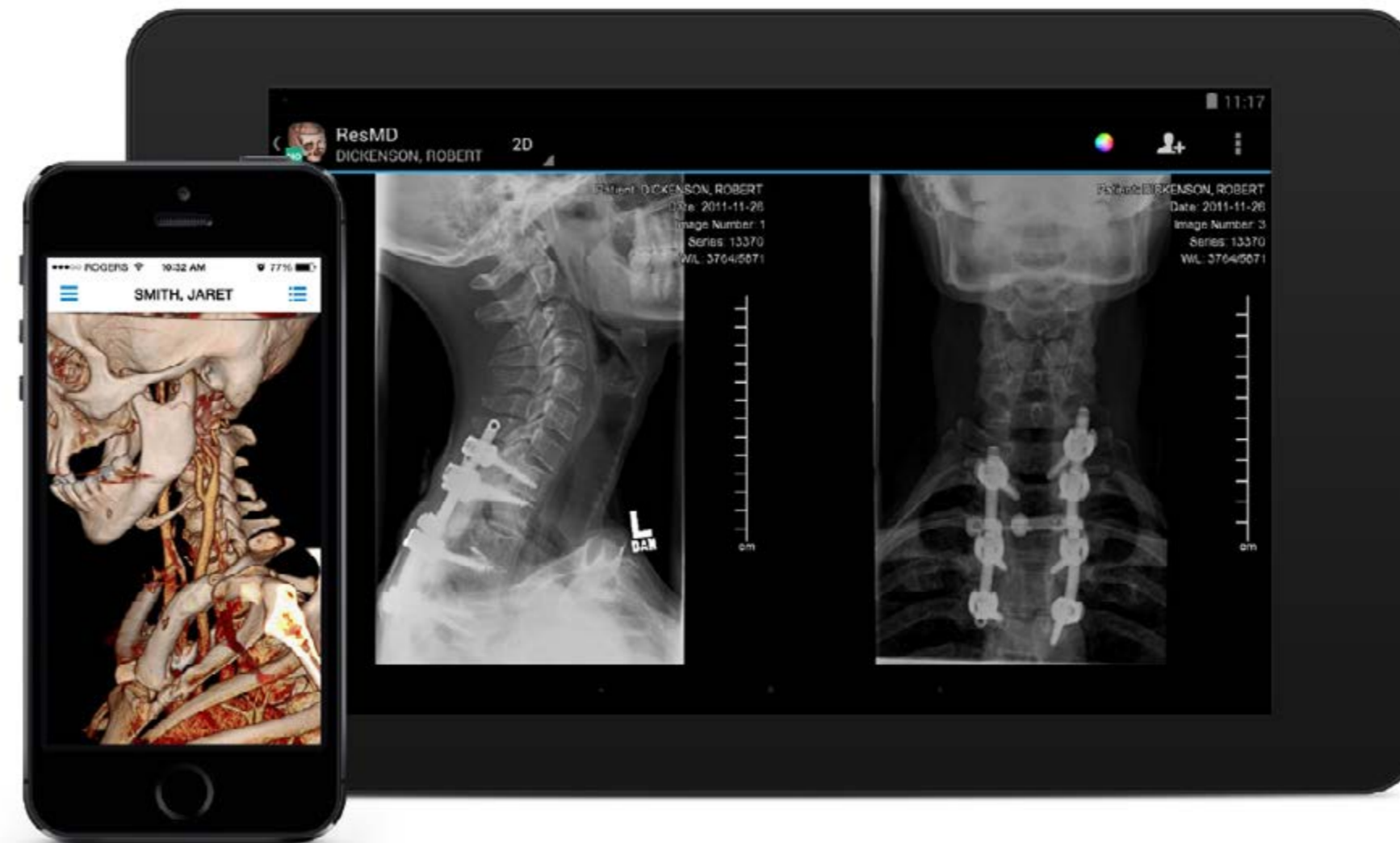


Simple, universal access to images across Intermountain Healthcare was the driving factor to move to an enterprise-wide viewer. We wanted a solution that did not require any downloads, was fully secure, had the proper FDA clearances for diagnosis, worked with our entire IT infrastructure, and met the speed and scalability requirements that are always at the top of our user lists

Geoff Duke
*Director, Imaging Informatics
at Intermountain Healthcare*



ResolutionMD®



ResolutionMD enables doctors to securely view patient images and reports from a wide variety of computers and mobile devices, collaborate with other practitioners and diagnose from any location. Whether you are a single facility or a large healthcare system with tens of thousands of users, ResolutionMD is the best choice for seamless image access across multiple departments. The FDA cleared, CFDA registered, Health Canada licensed and CE marked mobile medical diagnosis software can be integrated into any EMR and easily plugs into existing distributed storage systems. ResolutionMD's federated approach is an important differentiator from other solutions as highly sensitive data is never moved to a device and no additional data storage locations are created. ResolutionMD is currently installed in leading healthcare institutions around the world via a network of more than 45 world class healthcare partners. To see ResolutionMD in action, access the [self-serve demo](#).