



Decoupling Advanced Visualization from Scanner Purchases: How 3D Labs Accelerates Clinical and Operational Impact





Executive Summary

Health systems are under increasing pressure to deliver faster, more accurate, and more consistent imaging results. Yet many organizations delay workflow modernization while evaluating new scanner purchases — a pause that can stall clinical progress for months or even years. These delays often stem from the belief that advanced visualization capabilities must be tied to new hardware, leaving teams dependent on capital cycles before they can improve quality, efficiency, or throughput.

3DR Labs' 3D Labs solution eliminates this dependency. By providing immediate access to high-quality, human intelligence-driven 3D post-processing, 3D Labs enables imaging departments to modernize workflows now, regardless of scanner type, age, or vendor. This white paper outlines how 3D Labs helps organizations bypass capital cycle delays, strengthen radiologist efficiency, and elevate clinical quality across all modalities.

The Industry Challenge: Modernization Delayed by Capital Cycles

When modernization efforts hinge on capital purchases, operational inefficiencies persist far longer than necessary. Radiologists continue to shoulder manual post-processing responsibilities, contributing to burnout and unpredictable reading schedules. Turnaround times remain inconsistent, affecting downstream care teams and clinical decision-making. Legacy scanners further limit advanced visualization, even as clinical demand grows in areas such as cardiac imaging, neuroimaging, and oncology. Service-line expansion stalls, and organizations lose valuable time waiting for equipment that may take months to evaluate, procure, and install.

Capital cycles should not dictate clinical excellence. Yet today, they often do.

Introducing 3D Labs: Advanced Visualization Without the Hardware Dependency

3D Labs is 3DR's fully managed, human-intelligence-powered 3D post-processing as a service. It delivers high-quality, consistent, and clinically trusted outputs across all modalities — independent of scanner vendor or age. By shifting advanced visualization from a hardware-dependent function to a service-based model, 3D Labs enables organizations to modernize immediately.

At its core, 3D Labs provides vendor-agnostic 3D post-processing performed by highly trained, ARRT®-certified technologists who follow standardized protocols designed to reduce variability and improve surgical planning. The service scales effortlessly to support high-volume or complex case mixes and can be deployed without new hardware or software, and minimal IT lift. In doing so, 3D Labs reframes advanced visualization as an operational capability rather than a capital investment.

“Our partnership with 3DR has been wonderful. In a time when recruiting CT technologists is increasingly challenging, having 3DR handle post-processing has been an invaluable resource. The turnaround times are excellent, and the quality of the work is consistently outstanding.”

-Angelica Cuttill, System Director of Medical Imaging, Northern Arizona Healthcare

“Since we began utilizing the services of 3DR Labs, I want to express my utmost satisfaction with the exceptional quality of service they have consistently provided to our facility. Their dedication, expertise, and commitment to delivering accurate and timely results have exceeded our expectations. I look forward to witnessing the continued success of 3DR Labs and the positive impact they have on medical facilities like ours.”

-Clinical Supervisor of Diagnostic Imaging, 100 acute-care bed hospital



Decoupling Clinical Progress from Scanner Purchases

1 Immediate Access to Advanced Visualization

Organizations no longer need to wait for scanner upgrades to unlock modern capabilities. With 3D Labs, imaging teams gain immediate access to advanced 3D outputs, enabling faster adoption of new clinical programs, improved radiologist efficiency, and consistent quality across all scanners, including legacy systems.

2 Standardization Across Legacy and New Equipment

Mixed-vendor environments often produce inconsistent outputs that complicate surgical planning and downstream workflows. 3D Labs ensures uniform quality across all modalities, reducing variability and supporting predictable turnaround times regardless of scanner age or manufacturer.

3 Operational Continuity During Capital Transitions

Scanner evaluations, purchases, and installations can disrupt workflows for months. 3D Labs provides stability during these transitions, maintaining reliable 3D support and eliminating downtime in advanced visualization. Imaging departments can continue operating at full capacity even as equipment changes occur in the background.



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4

Reduced Burden on Radiologists

By shifting post-processing responsibilities to 3D Labs, radiologists can focus on interpretation rather than reconstruction. This reduces cognitive load, supports more predictable reading schedules, and helps mitigate burnout — a growing concern across the industry.

Clinical and Operational Outcomes

The impact of 3D Labs extends across clinical, operational, and strategic domains.

Radiologists benefit from reduced manual post-processing time, more predictable workflows, and lower cognitive burden. Surgical teams receive consistent, high-fidelity 3D outputs that improve communication and enhance pre-operative planning. Imaging departments experience faster case completion, more reliable turnaround times, and stronger support for high-volume service lines.

Strategically, organizations gain the flexibility to launch new programs immediately, without waiting for OEM feature releases or capital approvals. This independence from hardware cycles allows imaging leaders to modernize workflows on their own timeline.

“I have promoted this service [3D Labs] to peers whenever there are discussions about adding new services that include advanced visualization, especially when the expected volume really doesn’t justify the cost of purchasing a dedicated visualization package.”

-Don A., Portland Imaging Leader

Why 3D Labs Now

The market is shifting, and imaging leaders are prioritizing workforce stabilization, quality standardization, faster turnaround times, operational resilience, and vendor-agnostic flexibility. 3D Labs directly supports these priorities without requiring capital spend, equipment upgrades, or significant IT resources. As imaging volumes rise and staffing pressures intensify, the ability to modernize independent of hardware has never been more critical.

Conclusion

Scanner purchases are important, but they should not delay clinical progress. 3D Labs empowers imaging departments to modernize today, delivering immediate workflow improvements, consistent and high-quality 3D outputs, reduced radiologist burden, stronger surgical planning, and operational resilience across all modalities. By decoupling advanced visualization from scanner hardware, 3D Labs ensures that clinical excellence is no longer tied to capital cycles.

About 3DR Labs

3DR Labs transforms healthcare operations through a unified ecosystem of advanced medical imaging and intelligent automation. By integrating expert radiologic clinical services with a vendor-agnostic AI gateway and predictive workflow orchestration, 3DR harmonizes complex imaging and workflow analysis with human expertise. This end-to-end innovation empowers providers to augment clinical expertise, automate workflows, and accelerate diagnostic interpretation. The result is a more efficient imaging enterprise that optimizes performance and reduces costs—ultimately driving faster, more efficient care delivery and improved patient outcomes across the entire continuum of care.

Harmonizing Human and Artificial Intelligence for Faster, More Precise Care



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