SYNAPSE 7X

One platform. Unlimited possibilities.

Deliver unrestricted enterprise imaging access through one universal PACS viewer.

Get Started →

SYNAPSE®
Enterprise Imaging

FUJIFILM
Value from Innovation

MAKE TRUE ENTERPRISE IMAGING POSSIBLE

Enterprise imaging has remained a promising, yet challenging, vision for healthcare organizations. Nearly every provider, regardless of specialty, relies on imaging and multimedia workflows to care for patients. However, with various service lines relying on disparate IT systems to support their imaging initiatives, the promise of enterprise imaging quickly falls victim to departmental complexities.

Physicians rely on an assortment of clinical workflows, each of which are driven by various functionalities and user interfaces, while few, if any, show the complete patient health picture. Likewise, IT personnel manage and maintain numerous systems, including the various PACS systems, third-party applications, costly integrations, along with the evolving storage requirements that come with them.

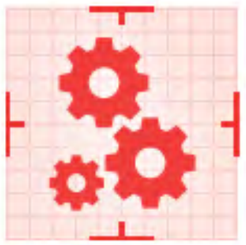
Today's healthcare organizations need a true enterprise-imaging platform, one that eliminates departmental silos, centralizes imaging content, and provides unlimited imaging access through a universal PACS viewer. Synapse® 7x is that platform.

With Synapse 7x, true enterprise imaging is possible. Powered by robust server-side technology, the next-generation visualization platform converges the functionalities of **Synapse Radiology PACS**, **Cardiology PACS**, **VNA**, **3D Advanced Visualization**, and **Fujifilm's AI-supported platform REiLI®** on one common viewer. IT personnel are freed to manage and maintain a single, core enterprise-imaging system, while providers have unlimited enterprise-imaging access through a common PACS viewer, helping to improve care coordination, standardize clinical workflows, and enhance diagnostic decision making through greater data access.

*Fujifilm's REiLI AI technologies will become commercially available in the U.S. upon completion of regulatory requirements.

SYNAPSE PACS

Medical communities rely on cutting-edge solutions to prevail in today's sophisticated healthcare domain. Synapse PACS accommodates and excels with its remarkable server-based image rendering platform, orchestrating countless demands. Imaging data can be unified through a single diagnostic viewer, bringing extensive access, standardized workflows, enhanced care coordination, and more-informed decision making to your institution. ***Click the product benefits below to learn more.***



With Synapse RIS as the foundation, **SYNAPSE ENTERPRISE INFORMATION SYSTEMS (EIS)** extends the robust technology capabilities to deliver extensive workflow management to support professionals in radiology, cardiology and across the enterprise, enhancing staff productivity and the patient experience.

LEARN MORE →

SCALABILITY →
Engineered to tackle contemporary enterprise-imaging needs with the versatility to grow with every organization.

SECURITY →
The first radiology PACS granted an authority to operate (ATO) on networks in U.S. Department of Defense facilities.

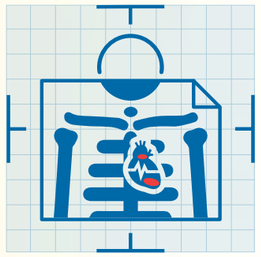
OPTIMAL USER EXPERIENCE →
Satisfy expectations of even the most advanced PACS user.

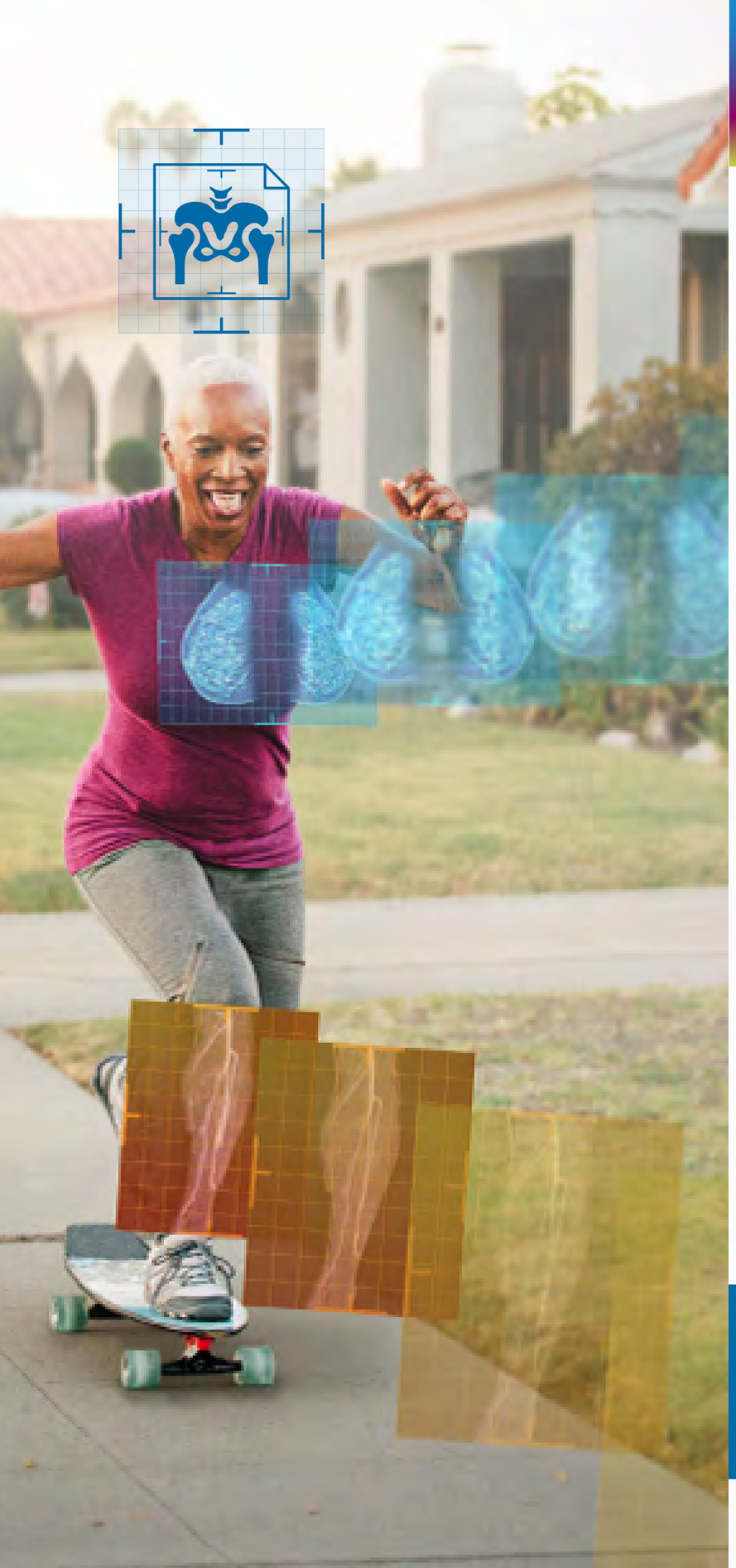
ANYWHERE ACCESS →
Authorized users need only a web browser for unfettered access to relevant patient imaging records.

IT DEPLOYMENTS AND UPDATES →
A zero-download viewer simplifies enterprise-wide workloads.

INNOVATION →
Primed for growth and equipped with architecture ideal for artificial intelligence.

To be effective, solutions must adapt to ever-changing strategies and continuously improve the PACS blueprint. The healthcare climate is constantly changing, and it is imperative that PACS technology remain in sync. Innovation and collaboration—in partnership with clinical, administrative, and IT professionals—are coupled with how Synapse PACS will progress and endure in this dynamic market. Our mutual success is the motivation.





ENTERPRISE PACS: RADIOLOGIST

Radiologists need an enterprise-imaging solution that eases formidable and growing workloads. Synapse PACS delivers a dependable, productive user experience through a powerful architecture that accommodates the entire organization. Radiologists are empowered with effective tools and essential data that enable thorough assessments and timely collaboration, both of which are instrumental for exemplary patient care. LEARN MORE →

Click the product benefits below to learn more.

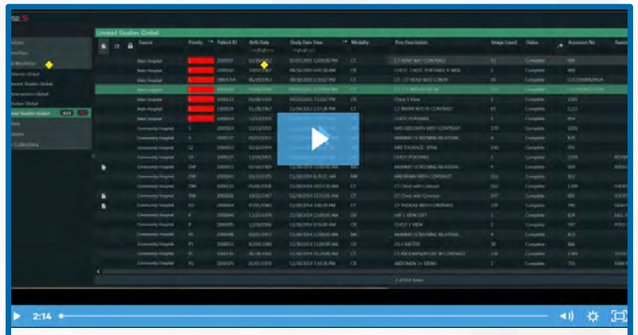
CONSISTENT USER EXPERIENCE →
Benefit from efficient, ergonomic functionalities.

MAMMOGRAPHY (MG) →
Maximize your PACS capabilities with fully supported MG workflows.

MORE-INFORMED DECISIONS →
Extensive access, standardized workflows, and enhanced care coordination across service lines.

COLLABORATIVE CHAT TOOLS →
Help bridge conversation gaps and revitalize cooperative patient care with Synapse Chat.

SUPPLEMENTARY COMMUNICATION ALERTS →
Extend collaboration and decision-making capabilities with Synapse Communications.



MULTIPLE DATASOURCES (MDS)
Gain **unified access to patients and studies that reside in two or more datasources (or databases)** using MDS, which consists of Global Worklists (GWL) and CommonView. GWL enables interpretion of studies from different sites using a single worklist. CommonView consolidates studies (for a patient) from varied datasources into a single PowerJacket. Studies from any of these datasources can be referenced as pertinent comparisons.

Fujifilm's pioneering web-based PACS has remained an industry leader for more than two decades, with architectural successes, innovation investments, and customer collaboration ingrained into each new release. At its core, Synapse PACS high-tech platform remains aligned with an ever-changing market and adapts to the shifting clinical and technical demands presented by today's healthcare environment.

ENTERPRISE PACS: CARDIOLOGIST

Optimal decision making is at the heart of high-quality cardiac care. Synapse PACS collaborative architecture was designed to seamlessly support interoperability and third-party integrations to bring greater image and data access to care teams. Traditional reporting bottlenecks are also alleviated through automated advanced reporting capabilities, allowing cardiologists to make more-informed decisions faster. LEARN MORE →

Click the product benefits below to learn more.

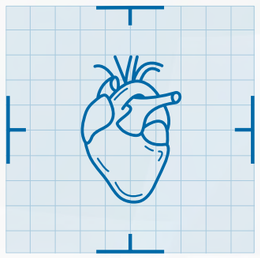
EXTENSIVE MODALITY SUPPORT →
A server-based, vendor-neutral design provides single sign-on access to image review and reporting.

ENHANCED PRODUCTIVITY AND EFFICIENCY →
Diverse diagnostic tools streamline workflow and reduce documentation time.

OPTIMAL PRIOR STUDIES COMPARISONS →
Reading protocols provide side-by-side review of images, measurements, and reports.

UNIFIED STUDY VIEW →
Auto-merge various procedural data and imaging formats into an aggregate study.

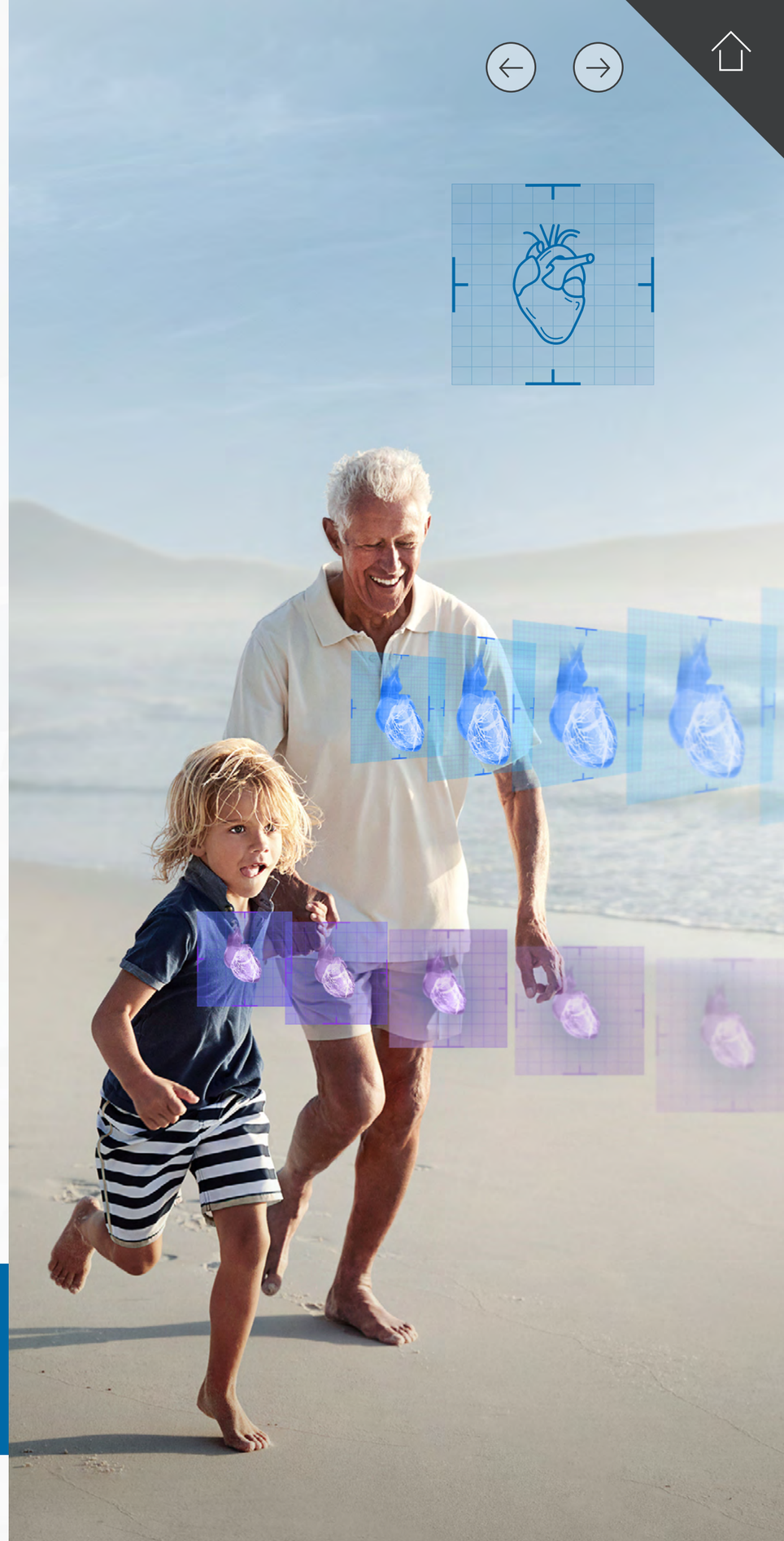
VENDOR-NEUTRAL →
Leverage existing imaging modalities spanning multiple cardiac departments to optimize equipment investments.



To support the entire care organization, cardiology PACS solutions must evolve to function as a comprehensive enterprise imaging system. Growing enterprises need a solution that supports interoperability, integrates with third-party software, and continuously evolves to keep pace with today's ever-changing healthcare environment.

LEARN MORE →

Clinical data is more than just information—it's a way for health systems to enhance operations and providers to improve patient outcomes. Synapse PACS cardiology functionalities unify the comprehensive information that cardiologists require to make high-quality care decisions and presents the data to support efficient and productive workflows to streamline first-class cardiac care.



SYNAPSE VNA

With nearly two decades of experience, the TeraMedica Division of Fujifilm remains independently focused on leveraging its clinical capabilities to bring the full patient imaging picture together, regardless of the imaging device, file format, or department. Consistently awarded Best in KLAS: Vendor-Neutral Archive (VNA)/Image Archive, Synapse VNA provides the industry's leading image-enablement solution, integrating more specialties, more devices, and more data than any other VNA. LEARN MORE →

Click the product benefits below to learn more.

CONTENT SUPPORT FOR EVERY DEPARTMENT →
Unite every form of digital content associated with a patient and clinical study.

STANDARDS-BASED INTELLIGENT WORKFLOWS →
Automate the process of capturing and distributing imaging data throughout the enterprise.

SUPPORT FOR MODERN STANDARDS →
Automatically upload images and associated content from a source system.

EHR-CENTRIC WORKFLOWS →
Add files to the patient record using an intuitive drag-and-drop interface.

SUPPORT FOR BYOD →
Allow clinicians to use their mobile devices for secure data capture, wherever and whenever needed.

REDUCED DATA ENTRY ERRORS →
Reduce the risk of patient misidentification errors from manual data entry.

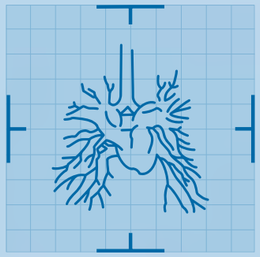
CROSS-DEPARTMENT AND FACILITY INFORMATION EXCHANGES →
Seamless information exchanges between the VNA and various systems and data repositories.

DATA CAPTURE FOR LEGACY SYSTEMS →
Provide automatic data capture from a source system.

SYNAPSE MOBILITY ENTERPRISE VIEWER
provides instant access to complete imaging records and reports spanning all departments and locations, both inside and outside your facility, to power boundless collaboration across the enterprise.

LEARN MORE →

As the core of FUJIFILM Medical Systems, U.S.A., Inc.'s next-generation Synapse 7x platform, Synapse VNA provides access, control, and management of imaging content from across the entire enterprise—regardless of the generating source, format type, or siloed storage system—unequivocally bringing the complete patient picture to your care teams.



SYNAPSE 3D

Today's image visualization requirements present both unique challenges and immense opportunity to bring a new tier of 3D software to enterprise imaging. Organizations need a 3D solution that can function as a supplementary, yet vital, component of an all-inclusive enterprise imaging (EI) strategy. Synapse 3D—part of Fujifilm's comprehensive, AI-supported EI portfolio—addresses these demands. **LEARN MORE →**

Click the product benefits below to learn more.

TECHNOLOGY →
Server-based technology powers robust, high-performing advanced visualization software.

SCALABILITY →
Built to meet current enterprise imaging needs with the adaptability to mature with every organization.

PRODUCTIVITY →
Deliver faster results with precaching and automated prerendering capabilities.

INHERENT CARDIOLOGY SUPPORT →
Synapse 3D introduces essential, native cardiology applications designed to analyze specialized findings and guide assessments.

INNOVATION →
Fujifilm is committed to accelerating ingenuity.

RELEVANT APPLICATIONS
Synapse 3D provides healthcare professionals with **an extensive collection of applications for advanced image visualization and analyses**. Applications are developed in collaboration with clinical experts to produce pertinent solutions that quickly and accurately deliver results, eliciting confident decisions.

Improving the way images are seen and shared across the enterprise can help providers deliver efficient, accurate, and exceptional patient care. Synapse 3D's advanced visualization software seamlessly performs state-of-the-art image analyses to aid with interpretation, reporting, and treatment planning while facilitating exam sharing to support clinical collaboration. With more than 50 unique applications spanning multiple specialty areas, Synapse 3D brings new meaning to advanced image visualization.

REILI: FUJIFILM'S AI-SUPPORTED PLATFORM

Today's diagnostics professionals are tasked with interpreting a vast number of images and studies, each with unique clinical complexities that warrant significant time and attention. To keep pace, providers need a solution that can take on some of these overwhelming imaging demands and assist with their diagnostic tasks. REiLI, Fujifilm's artificial intelligence (AI)-supported platform, is that solution. LEARN MORE →

Discover how REiLI leverages extensive Fujifilm and third-party machine learning algorithms to bring unprecedented AI insights directly within the workflow of Synapse PACS users.

WATCH VIDEO →

Click the product benefits below to learn more.

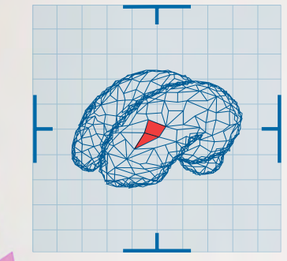
ALWAYS INNOVATING →
An 80-year image processing legacy with cutting-edge AI algorithms, Fujifilm remains at the forefront of enterprise imaging innovation.

FLEXIBLE INTEGRATIONS →
REiLI's open AI platform supports a range of integration methods.

ENABLING SMART DIAGNOSES, FAST →
REiLI will be equipped to accurately recognize and extract organ regions, including those with shape deviations and diseases.

IMPACTFUL ANALYTICS →
Radiologists can provide direct feedback on algorithms while they're in use to further advance accuracy.

STRATEGIC PARTNERSHIPS →
Accelerating healthcare is a collaborative effort.



The complexity of new imaging advancements has triggered the need for an AI co-pilot; one that can help take on some of the overwhelming imaging demands placed on diagnostics professionals. Using extensive machine learning algorithms from Fujifilm, vendor partners, and academic research institutions, REiLI brings unprecedented AI insights directly within the workflow of Synapse PACS users, helping to enhance diagnostic accuracy, streamline efficiency, and seamlessly support those on the diagnostic frontlines.

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SYNAPSE 7X: CLINICAL USE CASE

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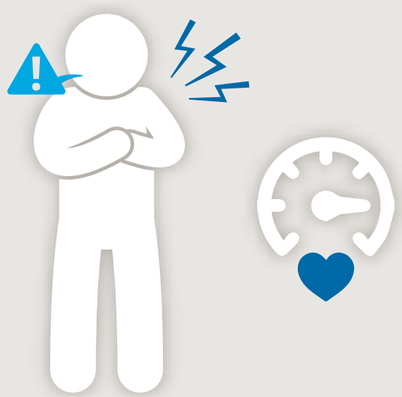
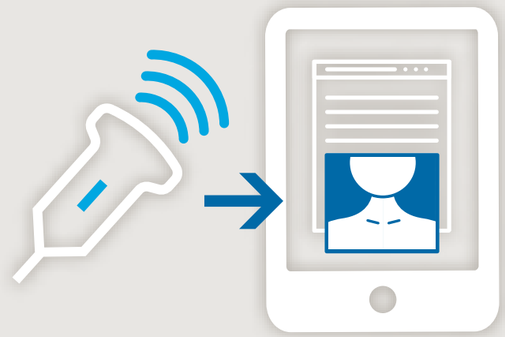


1 A 53-year-old male presents to his primary care physician (PCP) with complaints of chest pain, dizziness, blurred vision, and history of high blood pressure and heart disease. The PCP orders a carotid ultrasound (US) and an echocardiogram, both of which will be performed at the adjacent imaging center.



2 The radiology sonographer performs the carotid US and sends the study to Synapse 7x. A radiologist interprets the study while using applicable PACS tools. The radiologist also has the option to reference findings from REILI—Fujifilm's open AI-supported platform—as well as analyses from Synapse 3D's advanced visualization applications to further support the assessment and final report.

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SYNAPSE 7X: CLINICAL USE CASE

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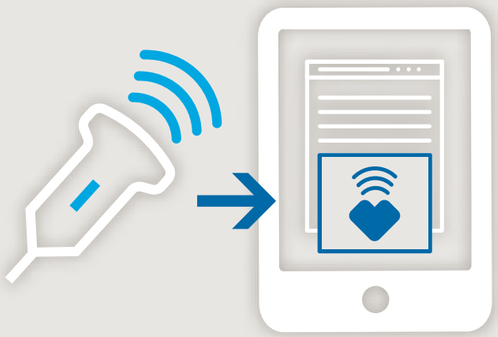


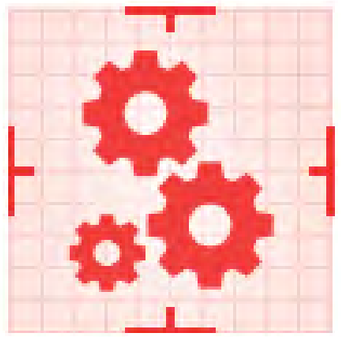
3 The cardiac sonographer later performs the echocardiogram and sends the study to Synapse 7x. A cardiologist interprets the study using shared radiology and specialized cardiology tools found in Synapse 7x.

4 Synapse 7x's unified PACS viewer gives the cardiologist access to the patient's complete imaging record, including the new carotid US study, which helps to coordinate care and enhance clinical decision making. During the interpretation, the cardiologist creates and finalizes a structured report. The diagnostic content is immediately available within the electronic health record (EHR).

SYNAPSE 7X: CLINICAL USE CASE

5

Synapse Enterprise Information Systems immediately notifies the PCP, as well as the patient, that the imaging results are available. Using the same unified PACS viewer, the patient's complete imaging record is presented in Synapse 7x alongside the procedural and clinical information within the facility's EHR. Upon evaluating the information, the PCP determines that the patient must be referred to a vascular specialist for procedural planning and treatment.



SYNAPSE ENTERPRISE INFORMATION SYSTEMS (EIS)

With Synapse RIS as the foundation, **Synapse Enterprise Information Systems (EIS)** extends the robust technology capabilities to deliver extensive workflow management to support professionals in radiology, cardiology and across the enterprise, enhancing staff productivity and the patient experience.

SYNAPSE 7X: IT DEPARTMENT USE CASE

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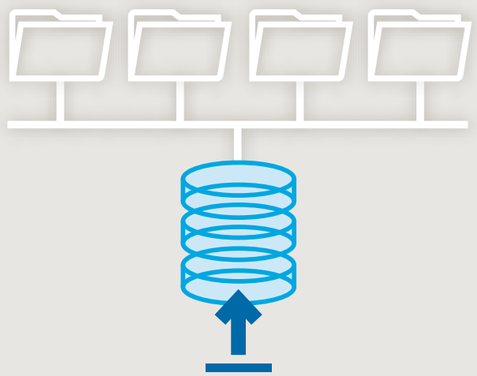
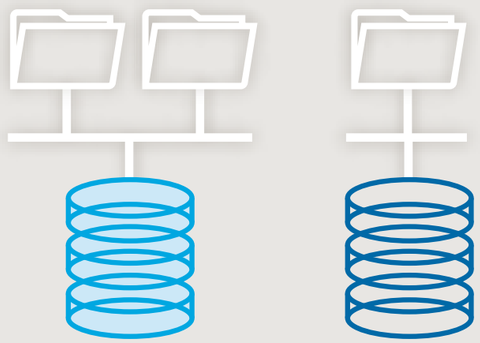


1 A longstanding Synapse Radiology PACS customer experienced extensive merger and acquisition (M&A) activity as it joined a newly formed health system. Following this activity, the health system set a goal to deploy a common server-side PACS solution across its entire network. The intrinsic architectural scalability of Synapse Radiology PACS supported this goal and in turn increased the original storage capacity and architectural footprint.



2 As the health system continued to grow, Synapse Cardiology PACS was also implemented to help standardize cardiovascular imaging. This system, however, required its own storage, infrastructure, and interfaces that needed to be managed.

SYNAPSE 7X: IT DEPARTMENT USE CASE

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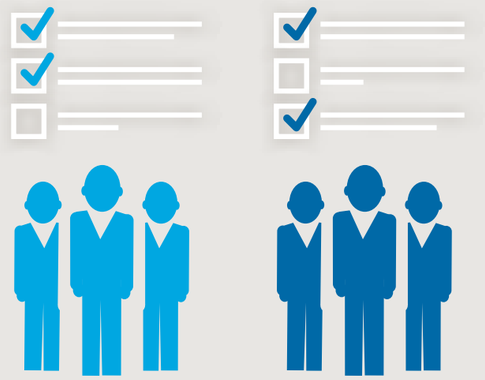
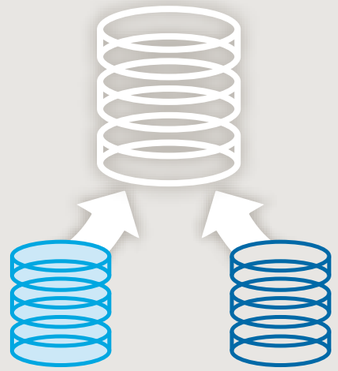


3 The health system's IT department now included radiology and cardiology support teams, both of which had their own set of responsibilities. These included hardware and storage maintenance as well as support for individual systems and users.



4 Upon further review of the health system's infrastructure, the IT department determined that a single PACS solution would eliminate its various storage silos. It would also unify and streamline support across service lines by consolidating its individual PACS support groups into one comprehensive team.

SYNAPSE 7X: IT DEPARTMENT USE CASE

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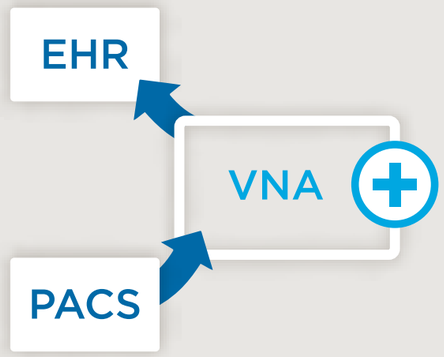

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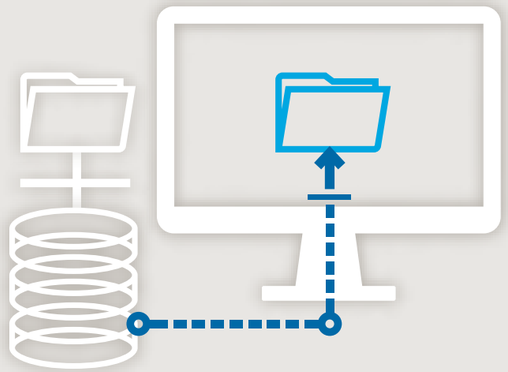
During the planning process, the IT department realized it was also an opportune time to invest in a VNA. This would provide one extensive enterprise solution to archive and manage all of the historical and growing PACS data, scale and manage the M&A migrated data, and include various images and data generated by specialty departments, all while interfacing with the EHR.



6

The health system found its solution in Synapse 7x, Fujifilm's next-generation, unified visualization platform. Powered by robust server-side technology, Synapse 7x converges the functionalities of Synapse Radiology PACS, Cardiology PACS, and VNA on one common viewer, while also providing direct access to Synapse 3D advanced visualization and Fujifilm's AI-supported platform REiLI for additional diagnostic decision support.

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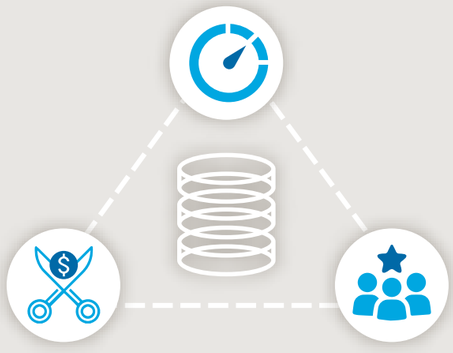
SYNAPSE 7X: IT DEPARTMENT USE CASE



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By implementing Synapse 7x, the health system was able to reduce its storage costs from the various siloed systems, increase IT efficiency by supported a single, easily deployed PACS platform, and vastly improve the clinical user experience by having all imaging in one common location that is readily accessible through the EHR.

SYNAPSE CLOUD SERVICES

Healthcare enterprises are curating, receiving, and storing more patient data than ever before. As a result, they need a solution that's **tailored-made to achieve their specific data storage and security needs, while alleviating associated costs and inefficiencies.** Fujifilm's Synapse Cloud Services is that solution.

SYNAPSE 7x

BRING UNLIMITED ENTERPRISE-IMAGING POSSIBILITIES TO YOUR ORGANIZATION

To make true enterprise imaging possible, **organizations need a solution that unifies image visualization** both within and outside the walls of the care facility. They require a platform that eliminates departmental silos, centralizes imaging content, and provides unobstructed imaging access through a common PACS viewer, with all imaging system features and functionalities accounted for. They need **one platform that brings unlimited enterprise-imaging possibilities** to their organization. **Synapse 7x** is that platform.

SYNAPSE® Enterprise Imaging

Radiology PACS | Cardiology PACS | 3D
VNA | Enterprise Viewer | Cloud Services
Information Systems | Artificial Intelligence

In 1936, we launched our healthcare business with x-ray film, and we haven't stopped innovating since.

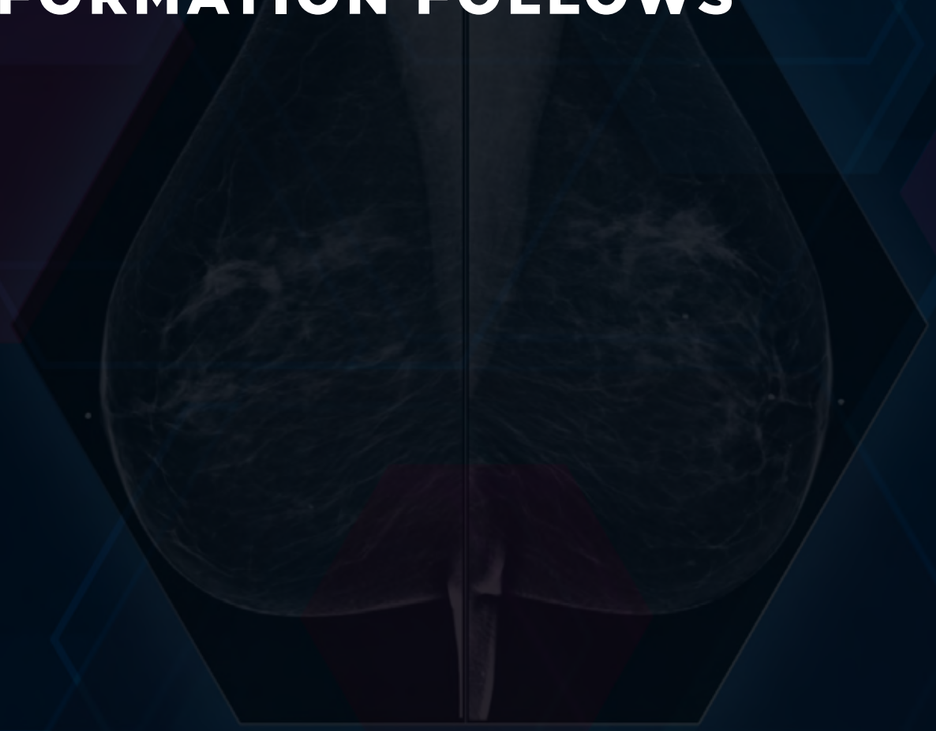
For more than 80 years, we've continued to transform ourselves so we can help healthcare organizations like yours make the world a healthier place. As the industry advances, we'll continue adapting — finding new ways to apply our unique technologies to solve preeminent healthcare challenges.

We'll never stop iterating and developing digital solutions that progress radiography, endoscopy, ultrasound systems, healthcare IT, pharmaceuticals, and regenerative medicine —and the Synapse Enterprise Imaging portfolio represents this commitment to continuous innovation.

For more information, please

Contact Us

FUJIFILM
Value from Innovation



ADDITIONAL INFORMATION FOLLOWS

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SCALABILITY

Requirements vary and often change. Synapse PACS is engineered to tackle contemporary enterprise-imaging needs with the **versatility to grow with every organization**. Systems can be completely customized from hardware to software, with implementations that can be hosted on-site or in the cloud.

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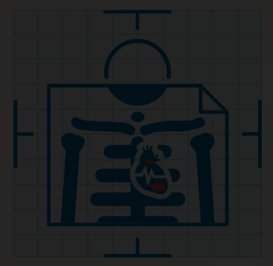

SECURITY

Synapse was the first radiology PACS granted an **authority to operate (ATO) on networks in U.S. Department of Defense facilities**, thereby substantiating its level of dependability. It keeps protected health information (PHI) secure, safeguards against data loss and breaches, and avoids unnecessary storage of patient data on workstations with a server-based architecture.

SYNAPSE PACS

Medical communities rely on cutting-edge solutions to prevail in today's sophisticated healthcare domain. Synapse PACS accommodates and excels with its remarkable server-based image rendering platform, orchestrating countless demands. Imaging data can be unified through a single diagnostic viewer, bringing extensive access, standardized workflows, enhanced care coordination, and more-informed decision making to your institution. ***Click the product benefits below to learn more.***

With Synapse RIS as the foundation, **SYNAPSE ENTERPRISE INFORMATION SYSTEMS (EIS)** extends the robust technology capabilities to deliver extensive workflow management to support professionals in radiology, cardiology and across the enterprise, enhancing staff productivity and the patient experience.

LEARN MORE →

SCALABILITY →
Engineered to tackle contemporary enterprise-imaging needs with the versatility to grow with every organization.

SECURITY →
The first radiology PACS granted an authority to operate (ATO) on networks in U.S. Department of Defense facilities.

OPTIMAL USER EXPERIENCE →
Satisfy expectations of even the most advanced PACS user.

ANYWHERE ACCESS →
Authorized users need only a web browser for unfettered access to relevant patient imaging records.

IT DEPLOYMENTS AND UPDATES →
A zero-download viewer simplifies enterprise-wide workloads.

INNOVATION →
Primed for growth and equipped with architecture ideal for artificial intelligence.

OPTIMAL USER EXPERIENCE
Satisfy expectations of even the most advanced PACS user. Manage enterprise workflows on a single diagnostic workstation that includes support for global worklists, mammography, 3D tools, measurement protocols, non-DICOM images, advanced reporting, and more. Benefit from efficient and ergonomic functionality while interacting with a user interface that is largely the same for all users, whether in-house or remote.

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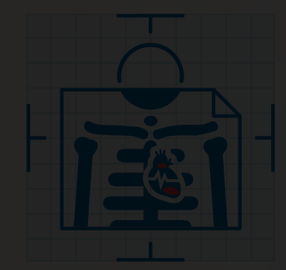

ANYWHERE ACCESS
Authorized users need only a web browser for **unfettered access to relevant patient imaging records**, regardless of the department in which they were acquired and independent of user location. Synapse PACS efficiently manages massive datasets with broader server-side bandwidth and delivers display-ready images directly to the workstation. Optional caching tools can be used to overcome bandwidth and latency constraints.

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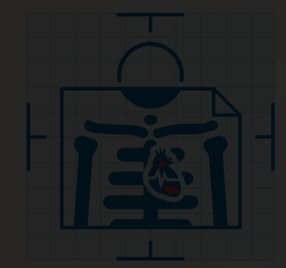

IT DEPLOYMENTS AND UPDATES

A **zero-download viewer** simplifies enterprise-wide workstation deployment, significantly reduces workstation IT support obligations, and eliminates mandatory workstation updates following a PACS software upgrade on the server.

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*Fujifilm's REiLI AI technologies will become commercially available in the U.S. upon completion of regulatory requirements.

INNOVATION

Fujifilm is committed to accelerating ingenuity. Designed with this in mind, Synapse PACS is **primed for growth and equipped with architecture ideal for artificial intelligence**. With the introduction of REiLI, Fujifilm's AI-enabled platform, Synapse PACS continues to navigate existing and unexplored enterprise-imaging opportunities.

ENTERPRISE PACS: RADIOLOGIST

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CONSISTENT USER EXPERIENCE →
Benefit from efficient, ergonomic functionalities.

MAMMOGRAPHY (MG) →
Maximize your PACS capabilities with fully supported MG workflows.

MORE-INFORMED DECISIONS →
Extensive access, standardized workflows, and enhanced care coordination across service lines.

COLLABORATIVE CHAT TOOLS →
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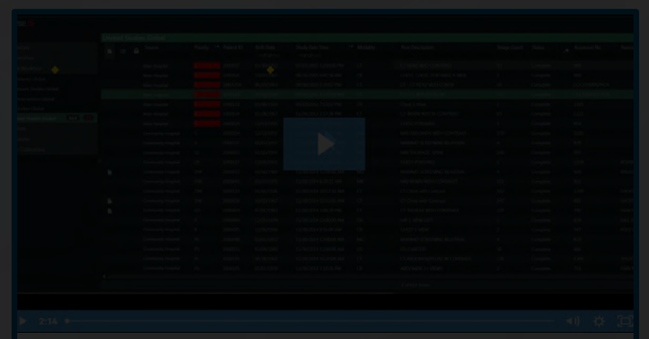

MULTIPLE DATASOURCES (MDS)
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Fujifilm's pioneering web-based PACS has remained an industry leader for more than two decades, with architectural successes, innovation investments, and customer collaboration ingrained into each new release. At its core, Synapse PACS high-tech platform remains aligned with an ever-changing market and adapts to the shifting clinical and technical demands presented by today's healthcare environment.

CONSISTENT USER EXPERIENCE
Benefit from efficient, ergonomic functionalities while interacting with a **user interface that is largely the same for all users, whether in-house or remote**. Overcome telehealth network limitations with tools that can mitigate bandwidth and latency restrictions. Manage enterprise workflows on a single diagnostic workstation that includes support for global worklists, mammography, 3D tools, non-DICOM images, and more.

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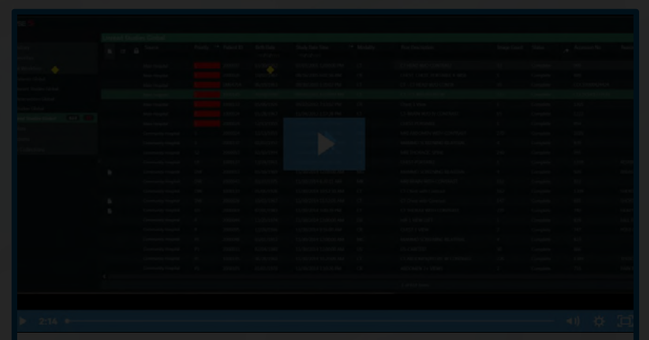

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MAMMOGRAPHY (MG)
Maximize your PACS capabilities with **fully supported MG workflows**. Easily and quickly access tomosynthesis images and toggle views between 2D and tomo images within a single viewport. Historically large tomo series are well-managed with a powerful server-based architecture, eliminating the need for a dedicated MG workstation.

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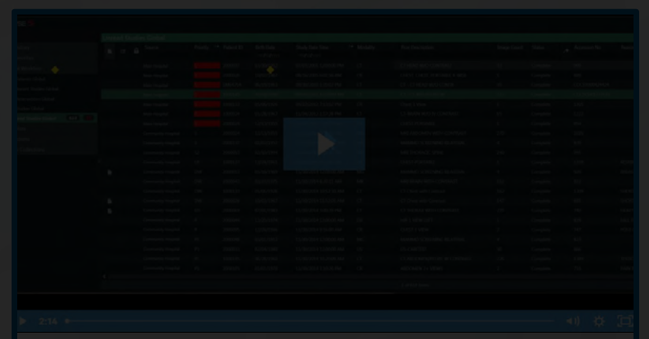

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MORE-INFORMED DECISIONS
Leverage a **single diagnostic viewer that unites EI datasets and provides extensive access, standardizes workflows, and enhances care coordination across service lines**. Manage unique imaging needs beyond radiology and cardiology to display widespread DICOM and non-DICOM data. Capitalize on MDS functionality for more-comprehensive patient information that enables better decision making.

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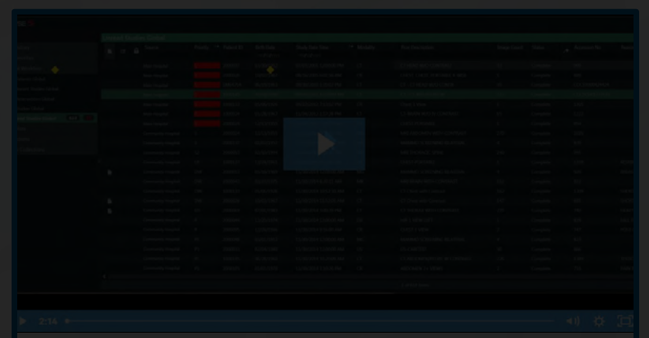

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COLLABORATIVE CHAT TOOLS
Experience additional **workflow advantages with Synapse Chat** to help bridge conversation gaps and revitalize cooperative patient care. Share snapshots that take recipients directly to a patient/study/series/image of interest, with no interactivity constraints. The tool also helps to reduce interruption workflows, enhance tech dialogue, and expand interdepartmental collaboration.

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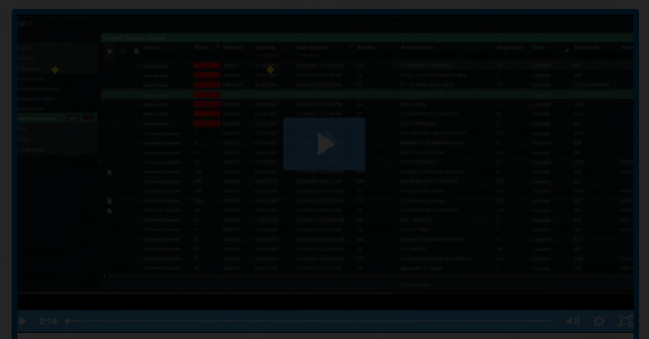

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SUPPLEMENTARY COMMUNICATION ALERTS
Extend collaboration and decision-making capabilities with Synapse Communications (SynComm). This enhanced suite of integrated technologies alerts users of imaging outcomes that require action, escalation, or closure; provides closed-loop communication between the radiologist and emergency department; identifies and assigns tasks that warrant follow-up; and much more.

ENTERPRISE PACS: CARDIOLOGIST

Optimal decision making is at the heart of high-quality cardiac care. Synapse PACS collaborative architecture was designed to seamlessly support interoperability and third-party integrations to bring greater image and data access to care teams. Traditional reporting bottlenecks are also alleviated through automated advanced reporting capabilities, allowing cardiologists to make more-informed decisions faster. LEARN MORE →

Click the product benefits below to learn more.

EXTENSIVE MODALITY SUPPORT →
A server-based, vendor-neutral design provides single sign-on access to image review and reporting.

ENHANCED PRODUCTIVITY AND EFFICIENCY →
Diverse diagnostic tools streamline workflow and reduce documentation time.

OPTIMAL PRIOR STUDIES COMPARISONS →
Reading protocols provide side-by-side review of images, measurements, and reports.

UNIFIED STUDY VIEW →
Auto-merge various procedural data and imaging formats into an aggregate study.

VENDOR-NEUTRAL →
Leverage existing imaging modalities spanning multiple cardiac departments to optimize equipment investments.

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- Adult echocardiography
- Stress ECG
- Pediatric echocardiography
- ECG management; resting ECG, Holter PFT, event monitoring, pacemaker follow-up, cardiac rehab, defibrillators, ambulatory blood pressure, and EEG
- Noninvasive vascular
- Nuclear cardiology
- Cardiac catheterization
- Electrophysiology
- Invasive peripheral vascular
- Cardiac computed tomography
- Cardiac magnetic resonance

Clinical data is more than just information—it's a way for health systems to enhance operations and providers to improve patient outcomes. Synapse PACS cardiology functionalities unify the comprehensive information that cardiologists require to make high-quality care decisions and presents the data to support efficient and productive workflows to streamline first-class cardiac care.

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Diverse **diagnostic tools streamline workflow and reduce documentation time**. Generate clinical findings with auto-summary of measurements, procedure worksheets, and diagrams; carry over previous report content; obtain one-click normal statements; leverage user-defined macros, auto-fill report summary with findings based on severity; and integrate with third-party advanced quantification, accreditation, and registry software.

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UNIFIED STUDY VIEW

Auto-merge various procedural data and imaging formats into an aggregate study. For example, view cardiac angiography and IVUS images with the hemodynamic waveforms and data, and combine stress echo or nuclear images with the ECG waveforms and stress data.

Clinical data is more than just information—it's a way for health systems to enhance operations and providers to improve patient outcomes. Synapse PACS cardiology functionalities unify the comprehensive information that cardiologists require to make high-quality care decisions and presents the data to support efficient and productive workflows to streamline first-class cardiac care.

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Leverage existing imaging modalities spanning multiple cardiac departments to optimize equipment investments. Synapse Data Importer also prepopulates measurements and data from imaging and diagnostic devices, regardless of the manufacturer.

Clinical data is more than just information—it's a way for health systems to enhance operations and providers to improve patient outcomes. Synapse PACS cardiology functionalities unify the comprehensive information that cardiologists require to make high-quality care decisions and presents the data to support efficient and productive workflows to streamline first-class cardiac care.

SYNAPSE VNA

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Click the product benefits below to learn more.

CONTENT SUPPORT FOR EVERY DEPARTMENT →
Unite every form of digital content associated with a patient and clinical study.

STANDARDS-BASED INTELLIGENT WORKFLOWS →
Automate the process of capturing and distributing imaging data throughout the enterprise.

SUPPORT FOR MODERN STANDARDS →
Automatically upload images and associated content from a source system.

EHR-CENTRIC WORKFLOWS →
Add files to the patient record using an intuitive drag-and-drop interface.

SUPPORT FOR BYOD →
Allow clinicians to use their mobile devices for secure data capture, wherever and whenever needed.

REDUCED DATA ENTRY ERRORS →
Reduce the risk of patient misidentification errors from manual data entry.

CROSS-DEPARTMENT AND FACILITY INFORMATION EXCHANGES →
Seamless information exchanges between the VNA and various systems and data repositories.

DATA CAPTURE FOR LEGACY SYSTEMS →
Provide automatic data capture from a source system.

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Unite every form of digital content **associated with a patient and clinical study** with Synapse VNA's Connext Workflow Solutions. This includes DICOM and non-DICOM content, such as JPGs, PNGs, PDFs; sound and video files; reports; and much more.

As the core of FUJIFILM Medical Systems, U.S.A., Inc.'s next-generation Synapse 7x platform, Synapse VNA provides access, control, and management of imaging content from across the entire enterprise—regardless of the generating source, format type, or siloed storage system—unequivocally bringing the complete patient picture to your care teams.

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SUPPORT FOR MODERN STANDARDS
Automatically upload images and associated content from a source system, and easily integrate with third-party software using modern, standards-based APIs—including HL7 FHIR, DICOMweb, and RESTful API - with Synapse VNA's Connext HL7 file upload and Connext SDK.

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Allow clinicians to use their mobile devices for secure data capture, wherever and whenever needed, through Synapse VNA's Connext Mobile app.

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DATA CAPTURE FOR LEGACY SYSTEMS →
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CROSS-DEPARTMENT AND FACILITY INFORMATION EXCHANGES
Facilitate care coordination among departments and across facilities with **seamless information exchanges between the VNA and various systems and data repositories** using Synapse VNA's cross-enterprise document sharing (XDS).

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DATA CAPTURE FOR LEGACY SYSTEMS →
Provide automatic data capture from a source system.

STANDARDS-BASED INTELLIGENT WORKFLOWS

Automate the process of capturing, ingesting, and distributing imaging data throughout the enterprise—regardless of the source system, file format, or siloed storage system—with Synapse VNA's Connext Workflow Solutions.

As the core of FUJIFILM Medical Systems, U.S.A., Inc.'s next-generation Synapse 7x platform, Synapse VNA provides access, control, and management of imaging content from across the entire enterprise—regardless of the generating source, format type, or siloed storage system—unequivocally bringing the complete patient picture to your care teams.

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EHR-CENTRIC WORKFLOWS
Add files to the patient record using an intuitive drag-and-drop interface and encounters-based workflows with Synapse VNA's Connext Web.

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DATA CAPTURE FOR LEGACY SYSTEMS
Provide automatic data capture from a source system that lacks standard outbound integration capabilities with Synapse VNA's Connext Shared Directories.

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Today's image visualization requirements present both unique challenges and immense opportunity to bring a new tier of 3D software to enterprise imaging. Organizations need a 3D solution that can function as a supplementary, yet vital, component of an all-inclusive enterprise imaging (EI) strategy. Synapse 3D—part of Fujifilm's comprehensive, AI-supported EI portfolio—addresses these demands. LEARN MORE →

Click the product benefits below to learn more.

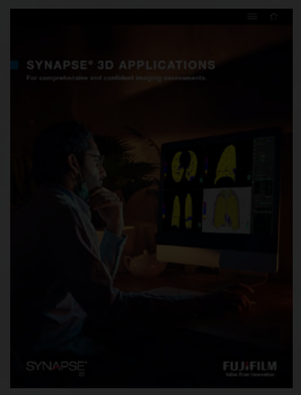
TECHNOLOGY →
Server-based technology powers robust, high-performing advanced visualization software.

SCALABILITY →
Built to meet current enterprise imaging needs with the adaptability to mature with every organization.

PRODUCTIVITY →
Deliver faster results with precaching and automated prerendering capabilities.

INHERENT CARDIOLOGY SUPPORT →
Synapse 3D introduces essential, native cardiology applications designed to analyze specialized findings and guide assessments.

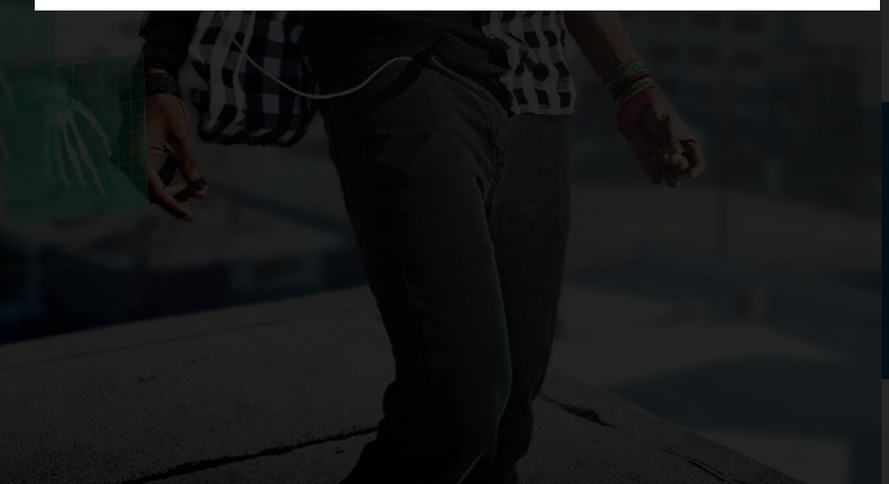
INNOVATION →
Fujifilm is committed to accelerating ingenuity.



RELEVANT APPLICATIONS
Synapse 3D provides healthcare professionals with **an extensive collection of applications for advanced image visualization and analyses**. Applications are developed in collaboration with clinical experts to produce pertinent solutions that quickly and accurately deliver results, eliciting confident decisions.

Improving the way images are seen and shared across the enterprise can help providers deliver efficient, accurate, and exceptional patient care. Synapse 3D's advanced visualization software seamlessly performs state-of-the-art image analyses to aid with interpretation, reporting, and treatment planning while facilitating exam sharing to support clinical collaboration. With more than 50 unique applications spanning multiple specialty areas, Synapse 3D brings new meaning to advanced image visualization.

TECHNOLOGY
Advanced image visualization analyses require considerable architectural resources—especially as systems grow. Synapse 3D's secure and sophisticated server-based technology powers **robust, high-performing advanced visualization software** suitable for any institution and backs even the most complex imaging decisions.



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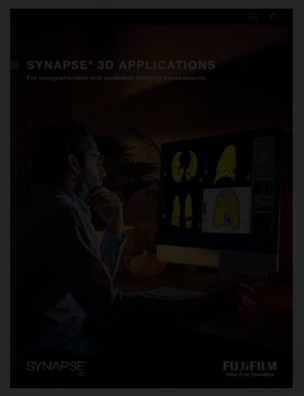

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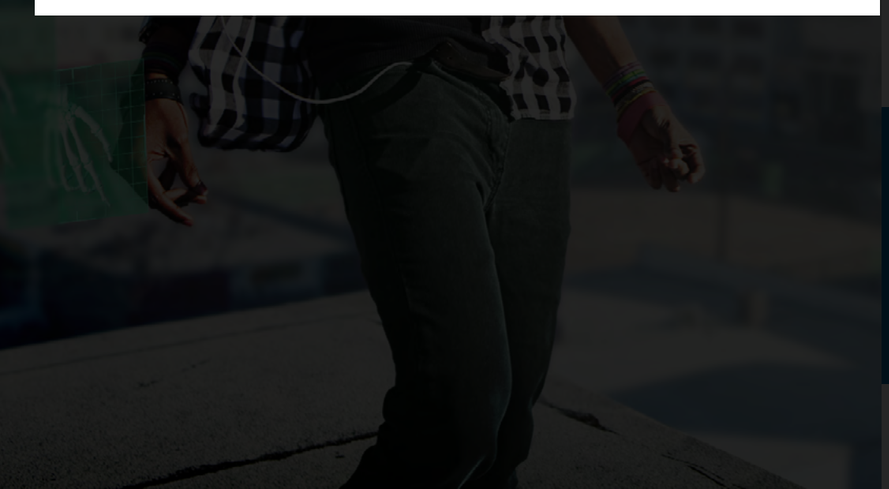
SCALABILITY
Synapse 3D is **built to meet current enterprise imaging needs with the adaptability to mature** with every organization. It enables user-defined implementations with extensible physical and virtual server solutions. It also permits system-wide use with pervasive web-based software.



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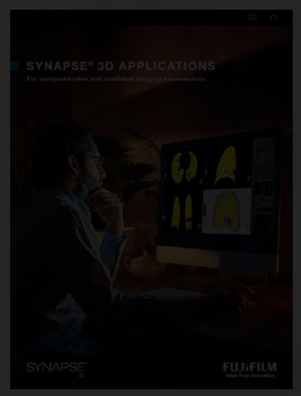

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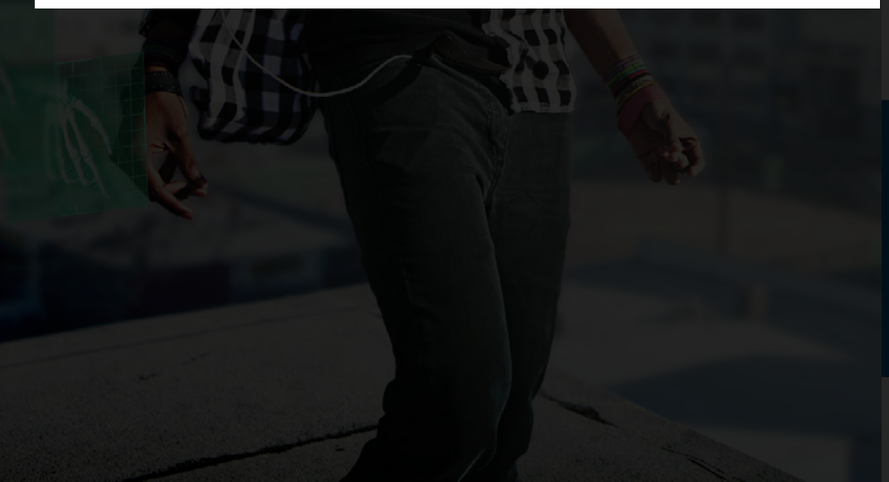
PRODUCTIVITY
Deliver faster results with precaching and automated prerendering capabilities. Eliminate inefficiencies and manual operations with macro-driven multistep processes. Support continued, collaborative workflows with work state hand-off to another user. Promote ease of use with shared tools that offer the same appearance and functionality among 3D applications.



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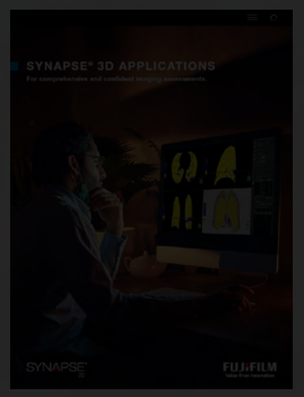

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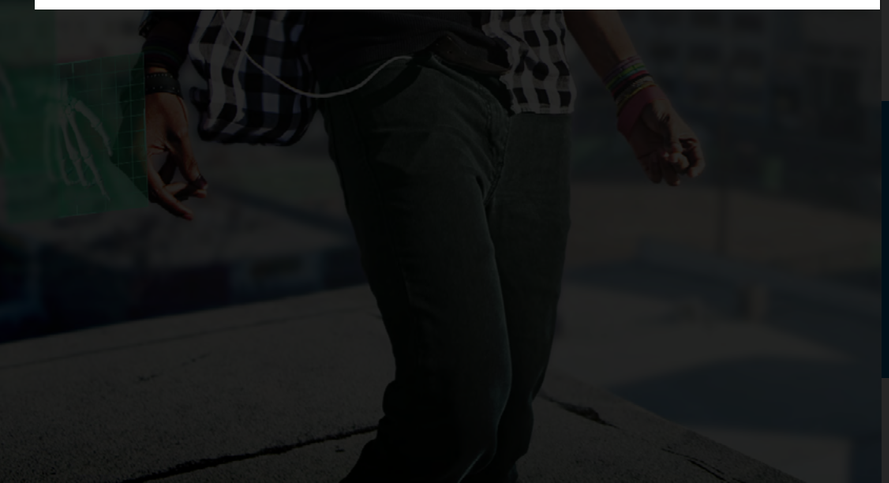
INHERENT CARDIOLOGY SUPPORT
Created in partnership with cardiovascular specialists, **Synapse 3D introduces essential, native cardiology applications designed to analyze specialized findings and guide assessments**. It incorporates integrated and compliant structured reports, adhering to guidelines such as those of the American Heart Association.



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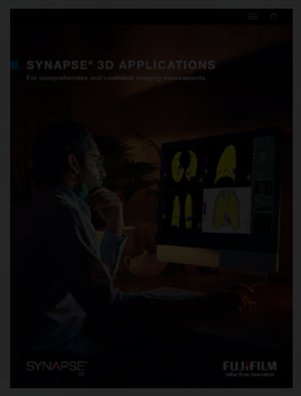

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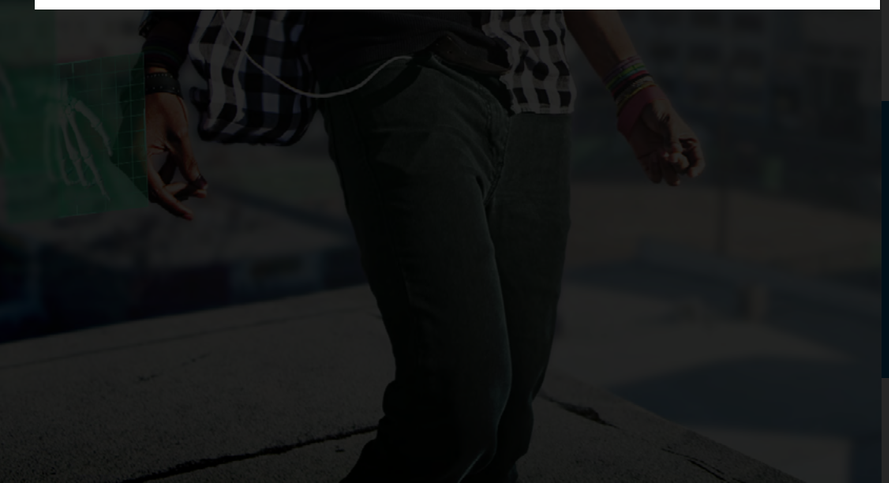
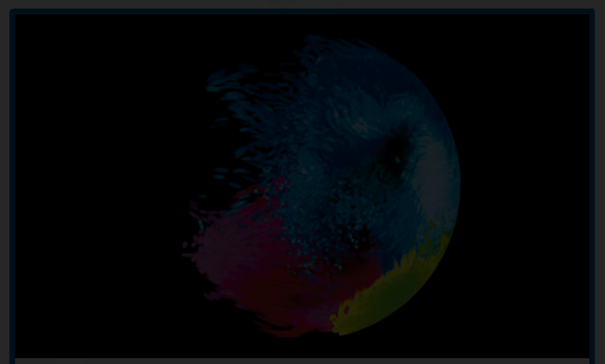
INNOVATION
Fujifilm is committed to accelerating ingenuity. Prepare for an AI-driven future as Synapse 3D's intricate imaging algorithms help to lay the foundation for REiLI, Fujifilm's AI-enabled platform.



*Fujifilm's REiLI AI technologies will become commercially available in the U.S. upon completion of regulatory requirements.

REILI: FUJIFILM'S AI-SUPPORTED PLATFORM

Today's diagnostics professionals are tasked with interpreting a vast number of images and studies, each with unique clinical complexities that warrant significant time and attention. To keep pace, providers need a solution that can take on some of these overwhelming imaging demands and assist with their diagnostic tasks. REiLI, Fujifilm's artificial intelligence (AI)-supported platform, is that solution. LEARN MORE →



Discover how REiLI leverages extensive Fujifilm and third-party machine learning algorithms to bring unprecedented AI insights directly within the workflow of Synapse PACS users.

WATCH VIDEO →

Click the product benefits below to learn more.

ALWAYS INNOVATING →
An 80-year image processing legacy with cutting-edge AI algorithms, Fujifilm remains at the forefront of enterprise imaging innovation.

FLEXIBLE INTEGRATIONS →
REiLI's open AI platform supports a range of integration methods.

ENABLING SMART DIAGNOSES, FAST →
REiLI will be equipped to accurately recognize and extract organ regions, including those with shape deviations and diseases.

IMPACTFUL ANALYTICS →
Radiologists can provide direct feedback on algorithms while they're in use to further advance accuracy.

STRATEGIC PARTNERSHIPS →
Accelerating healthcare is a collaborative effort.

ALWAYS INNOVATING

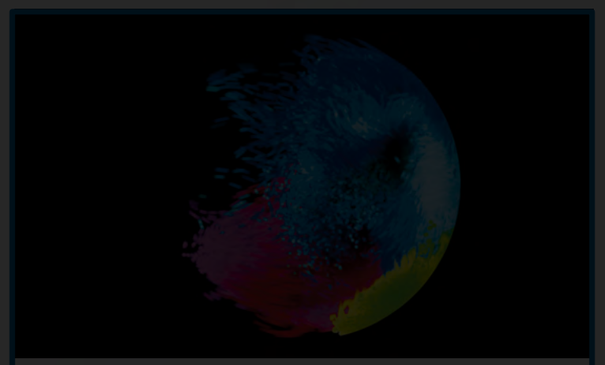
With physicians and patients in mind, FUJIFILM Medical Systems, U.S.A., Inc. (FMSU) is always advancing its solutions to meet today's healthcare challenges. Merging its **80-year image processing legacy with cutting-edge AI algorithms**, Fujifilm remains at the forefront of enterprise imaging innovation.

The complexity of new imaging advancements has triggered the need for an AI co-pilot; one that can help take on some of the overwhelming imaging demands placed on diagnostics professionals. Using extensive machine learning algorithms from Fujifilm, vendor partners, and academic research institutions, REiLI brings unprecedented AI insights directly within the workflow of Synapse PACS users, helping to enhance diagnostic accuracy, streamline efficiency, and seamlessly support those on the diagnostic frontlines.

*Fujifilm's REiLI AI technologies will become commercially available in the U.S. upon completion of regulatory requirements.

REILI: FUJIFILM'S AI-SUPPORTED PLATFORM

Today's diagnostics professionals are tasked with interpreting a vast number of images and studies, each with unique clinical complexities that warrant significant time and attention. To keep pace, providers need a solution that can take on some of these overwhelming imaging demands and assist with their diagnostic tasks. REiLI, Fujifilm's artificial intelligence (AI)-supported platform, is that solution. LEARN MORE →



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WATCH VIDEO →

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FLEXIBLE INTEGRATIONS →
REiLI's open AI platform supports a range of integration methods.

ENABLING SMART DIAGNOSES, FAST →
REiLI will be equipped to accurately recognize and extract organ regions, including those with shape deviations and diseases.

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FLEXIBLE INTEGRATIONS
REiLI's open AI platform **supports a range of integration methods** to help facilitate unrestricted communication with Fujifilm partner vendors and academic research institutions. These integration methods include DICOM segmentation, GSPS, secondary capture, iframe launch, and HL7 messaging.

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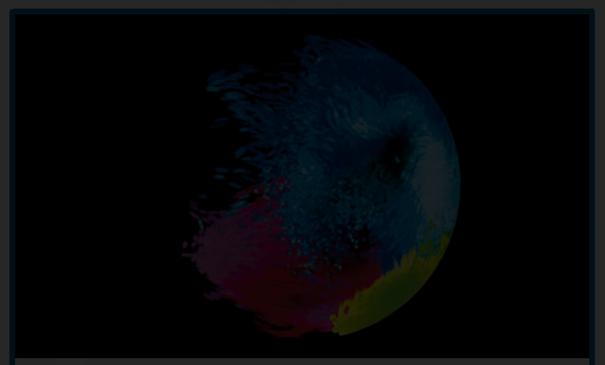

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ENABLING SMART DIAGNOSES, FAST

As a part of Fujifilm's commitment to continuous imaging innovation, **REiLI will be equipped to accurately recognize and extract organ regions, including those with shape deviations and diseases**. These developments are inherently advancing computer-aided detection to help reduce the time it takes to interpret images and make more-informed diagnostic decisions.

The complexity of new imaging advancements has triggered the need for an AI co-pilot; one that can help take on some of the overwhelming imaging demands placed on diagnostics professionals. Using extensive machine learning algorithms from Fujifilm, vendor partners, and academic research institutions, REiLI brings unprecedented AI insights directly within the workflow of Synapse PACS users, helping to enhance diagnostic accuracy, streamline efficiency, and seamlessly support those on the diagnostic frontlines.

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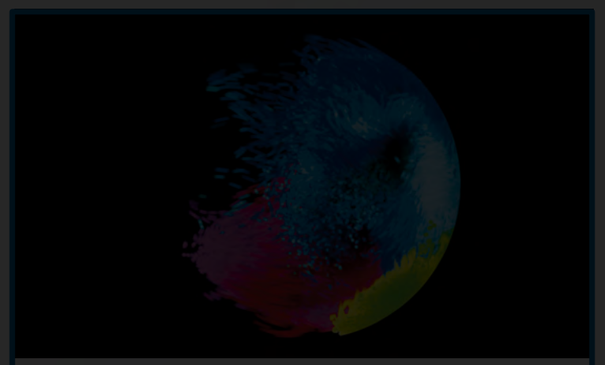

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IMPACTFUL ANALYTICS

Fujifilm is dedicated to constantly improving its AI platform to bring increasing value to end-users. Through REiLI, **radiologists can provide direct feedback on algorithms while they're in use to further advance accuracy**. The feedback is then delivered through application channels to Fujifilm's data scientists, developers, and partnering organizations to help them continuously perfect the platform.

The complexity of new imaging advancements has triggered the need for an AI co-pilot; one that can help take on some of the overwhelming imaging demands placed on diagnostics professionals. Using extensive machine learning algorithms from Fujifilm, vendor partners, and academic research institutions, REiLI brings unprecedented AI insights directly within the workflow of Synapse PACS users, helping to enhance diagnostic accuracy, streamline efficiency, and seamlessly support those on the diagnostic frontlines.

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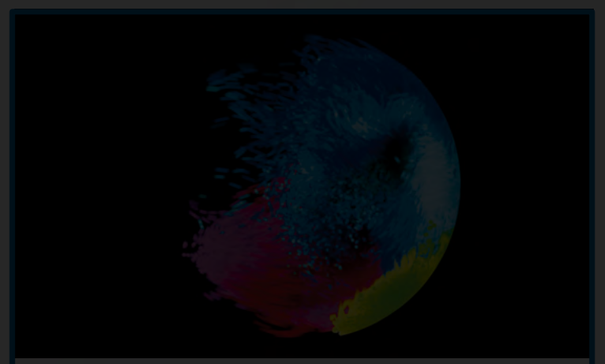

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Accelerating healthcare is a collaborative effort. That is why REiLI is uniquely equipped with a wide range of AI algorithms developed by Fujifilm, its partner vendors, and academic research institutions to collectively bring a superior enterprise imaging experience to Synapse PACS users.

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