



Protecting and enhancing the health and well-being of our Veterans and their families is central to the mission of Glassbeam.

VA



U.S. Department
of Veterans Affairs

At Veteran Healthcare facilities, the staff are swamped with rising caseloads, decreased budgets, and a surging demand for more accurate outcomes. Clinical Engineering and Radiology departments are under tremendous pressure to deliver the best possible patient care to our Veterans.

With Glassbeam Clinsights™, that's what we do the best. We empower your staff to reduce unplanned downtime of MRI, CT Scanners, and Cath lab instruments and help you track and maximize utilization of your entire imaging fleet.

As a direct outcome, you will experience a much more streamlined VA Healthcare Facility focused on one thing: delivery of superior patient care.

Glassbeam Solution

Glassbeam Clinsights™ solution disrupts this paradigm by offering advanced analytics on multiple data sources at a massive scale.

Powered by Artificial Intelligence (AI), and Machine Learning (ML) algorithms, Clinsights enables caseload workflow logic as rules and delivers alerts that signal healthcare professionals to take action whenever a healthcare equipment deviates from the norm.

With the aid of visually rich analytics, VA Healthcare leaders can increase machine uptime and utilization through:

- ✓ Near-real time collection and analysis of machine log data that has rich information to predict potential downtime several days in advance

Typical Challenges in Veteran Affairs Hospital Environment:

- ✓ An increasing backlog of providing appropriate care to our Veterans at the right facility, right time, as a result of unplanned downtime of radiology or Cath lab equipment
- ✓ A lack of operational insight into departmental and facility throughput leading to ineffective capital expenditure decisions when buying new medical equipment
- ✓ A lack of transparency on the number of cases referred to community care providers leading to increased payment claims

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- ✓ Comprehensive data analysis on each Exam using DICOM and HL7 messages, and combining such data with logs to create the complete picture of actual asset utilization
 - ✓ Dashboards with actionable insights that are accessible on desktop, tablet, and mobile devices

Potential Outcomes at your VA Healthcare Facility:

- ✓ Reduce wait times for our Veterans and improve patient care by uncovering potential machine downtime inefficiencies
- ✓ Streamline tracking and reporting of key operational metrics to help increase asset utilization for the entire imaging equipment fleet
- ✓ Increase staff productivity, plug revenue leaks, and help Executive Administration staff make data-driven capital expenditure decisions

Glassbeam Clinsights Solution — Key Features

Remote Monitoring

Uses Glassbeam's CLEAN™ (Clinical Engineering Analytics) blueprint for connecting systems from all key manufacturers including GE, Siemens, and Philips. Data is collected on 30+ key readings including cryogen levels, cold head temperature, magnet pressure and scan counts, abortions, and arcs for MRI and CT modalities, respectively.

Predictive Maintenance

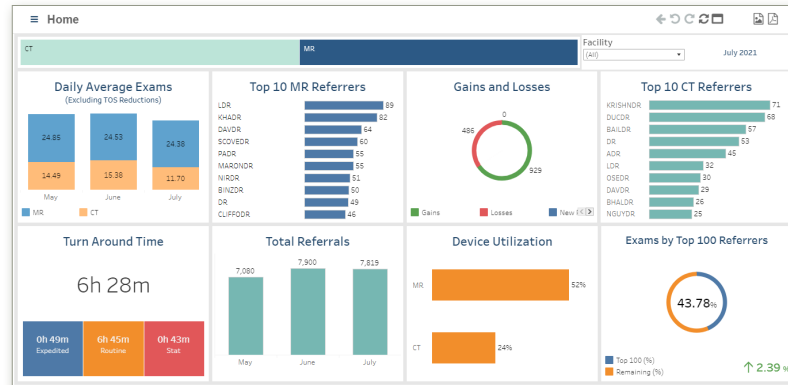
Deploys Machine Learning (ML) and Artificial Intelligence (AI) models based on historical data to predict future part failures, including CT tube failures, to minimize unplanned downtime. Applies anomaly detection to identify early warning trends.

Real-time Service KPI Dashboard via CMMS Integration

Eliminates manual effort and provides continuous measure for service team performance KPI including Mean Time Between Failure (MTBF), Parts Replacement Rates, First Time Fix Rate (FTFR), and Mean Time to Resolve (MTTR). Combining CMMS data with machine logs provides more accurate information on these KPIs.

Procedure Analysis

Shows distribution of procedures across systems and operators. Procedures can be categorized by modalities to isolate outliers; for example, most or least used procedures.



Referring Physician

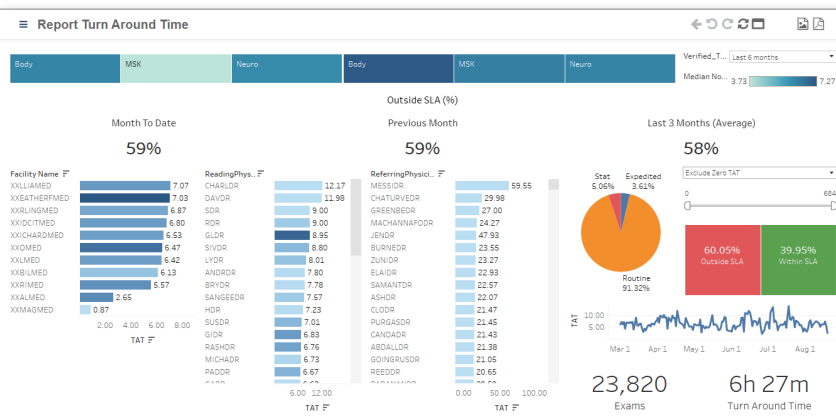
Monitor referral leakage by analyzing patterns in referrals and creating awareness among physicians. Monthly or weekly trends can be plotted for a timely response.

Patient Revisit

Provides analysis on procedures for a particular patient along with timeline and type of procedure, to eliminate redundant procedures. Patients can be correlated to referring physicians for additional insights.

Operator Comparison

Compares operator performance against a benchmark or set of peers to identify need for improved training or on-boarding process.

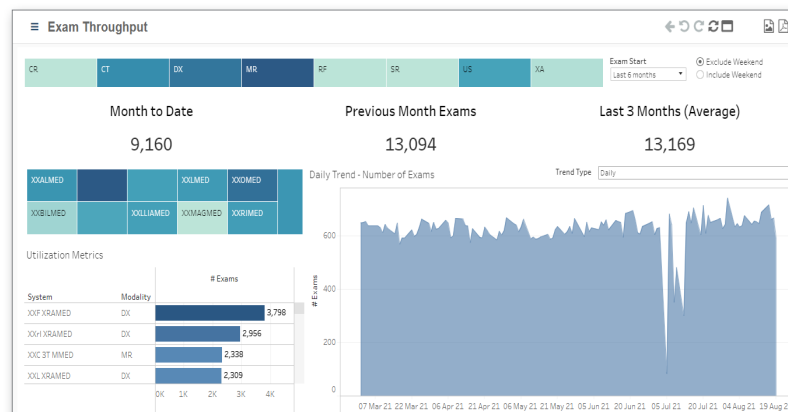


Real-time Environmental Monitoring

Provides dashboard and/or alerts to monitor Compressor Power, Room temp/humidity, and Chiller water temp In/ Out. Additional sensors could be added based on customer needs especially to monitor mobile units in remote locations.

Asset Utilization

Enables real-time monitoring of asset utilization on a monthly, daily or hourly granularity across all imaging modalities. Users can also compare utilization among facilities or between vendors.





Key Benefits for Healthcare Providers:

Multi-Modality Multi Manufacturer Enterprise Services

Provides an integrated health check view across all imaging modalities and manufacturers.

Efficient and Timely Clinical Workflow Management

Monitor procedure time and utilization to improve clinical workflow; for example, redirect patients to reduce wait time.

True 360-Degree Operation View

Solution can be easily extended by integrating with multiple hospital applications, for example, CMMS, RIS, scheduling system, credentialing system and billing.

Better Understanding of Utilization

Correlates DICOM data with machine logs to create a true picture of utilization; for example, identifying discrepancies between # of Series/Sequences Sent vs # of Series/Sequences acquired.

Customized Reports to Customer Specific Needs

Ad-hoc reporting capability and customization helps hospital to tailor solution to its exact needs.

Data Driven Capital Expenditure Decision

Real-time information on utilization augments decisions to procure right machines at the right time.

About Glassbeam

Glassbeam brings structure and meaning to complex data generated from any connected machine in the Industrial IoT realm with a strong focus on healthcare and data center equipment. Funded by several ultra-high net worth investors, Glassbeam's cloud-based platform is designed to analyze multi-structured log data, powered by Expert Rules, AI, and Machine Learning models, delivering powerful solutions for customers such as UCSF Medical, BSWH, Scripps Health, Kodak Alaris, and NTT Ltd.

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