

U.S. Organ Donation And Transplant Software Market Size, Share & Trends Analysis Report By Software Type, By Deployment Mode (Cloud-based, On-premise), By Application (Organ Donation Workflow Automation), By End-use, And Segment Forecasts, 2026 - 2033

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Abstracts

Summary

The U.S organ donation and transplant software market size was estimated at USD 57.16 million in 2025 and is projected to reach USD 90.04 million by 2033, growing at a CAGR of 5.9% from 2026 to 2033. This growth is attributed to the increasing organ transplant volumes and demand, growing prevalence of end-stage organ diseases, regulatory requirements for standardized data reporting and registry submission, and need for faster, more accurate donor-recipient matching.

Increasing organ transplant volumes in the U.S. are significantly accelerating the adoption of organ donation and transplant software. According to United Network for Organ Sharing, more than 48,000 organ transplants were performed in the U.S. in 2024, with a 55% increase in transplant procedures since 2015, highlighting the expanding scale and complexity of national transplant operations. This rise places substantial pressure on OPOs and transplant centers to manage larger donor pools, higher match-run frequencies, faster decision cycles, and more intricate logistics workflows. As a result, advanced software solutions are increasingly required to streamline donor management, automate allocation and matching, enhance data accuracy, ensure regulatory compliance, and support real-time coordination across the entire transplant ecosystem.

Regulatory requirements for standardized data reporting and registry submission are a major driver of the U.S. organ donation and transplant software market. Transplant centers, OPOs, and histocompatibility labs must submit comprehensive and timely clinical, operational, and outcome data to national bodies such as the OPTN/UNOS and the HRSA, covering donor characteristics, match runs, organ offers, transplant events, and long-term post-transplant follow-up.

These mandatory reporting obligations, along with strict audit trails, quality metrics, and compliance standards, create a need for software platforms that can automate data capture, ensure accuracy, maintain interoperability with EHRs and laboratory systems, and streamline registry submissions. As regulatory scrutiny and data transparency expectations continue to increase, organizations are turning to advanced digital solutions to reduce administrative burden, avoid compliance gaps, and ensure consistent, standardized reporting across the transplant continuum.

Integration of AI in U.S. Healthcare Organ Donation & Transplant Software market

The integration of AI into organ donation and transplant workflows is driving strong adoption of advanced digital platforms in the U.S., as transplant centers and OPOs increasingly rely on intelligent tools to improve donor-recipient matching accuracy, accelerate decision-making, and enhance overall transplant outcomes. AI enables predictive analytics, automated risk scoring, faster data processing, and more efficient coordination across clinical and operational teams. LifeFuser is a secure, cloud-based AI-driven transplant management platform by Ataims Tech designed to optimize organ transplant workflows, including donor-recipient matching and real-time analytics.

It supports all phases of organ transplantation with predictive outcome modeling, customizable workflows, and comprehensive data integration across kidney, liver, heart, lung, and pancreas programs, while ensuring HIPAA and GDPR compliance. Such platforms demonstrate how AI is reshaping transplant operations and contributing to the growth of the U.S. organ donation and transplant software market.

U.S. Healthcare Organ Donation And Transplant Software Market Report Segmentation

This report forecasts revenue growth at regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. healthcare organ donation and transplant software market report based software type, deployment mode,

application, and end-use:

Software Type Outlook (Revenue, USD Million, 2021 - 2033)

Organ Donor Management Systems

Transplant Management Systems

Organ Allocation & Matching Platforms

Organ Procurement & Logistics Software

Others

Deployment Mode Outlook (Revenue, USD Million, 2021 - 2033)

Cloud-based

On-premise

Application Outlook (Revenue, USD Million, 2021 - 2033)

Organ Donation Workflow Automation

Waitlist & Recipient Management

Transplant Coordination & Scheduling

Regulatory Reporting & Compliance

Outcome & Data Analytics

End-use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals & Transplant Centers

Organ Procurement Organizations (OPOs)

National/Regional Health Agencies

Research & Academic Institutes

This report can be delivered to the clients within 3 Business Days

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