



OPPORTUNITY

To unify fragmented clinical information from multiple systems, departments, and care pathways into a single longitudinal patient view for clinical care, teaching, research, and innovation.

INNOVATION

Humanitas created a new unified platform to aggregate and harmonize its clinical data, transforming it into an AI-ready and patient-centered longitudinal repository.

SOLUTION

The new repository integrates healthcare data into a strategic asset that supports the goals of patient care, research, teaching, and innovation.

IMPACT

This initiative establishes an AI-ready clinical platform that today manages almost a billion data points, integrated from many sources, in support of better decisions now and further innovation in the future.

Transforming Patient-Centered Care Through AI, Interoperability, and Unified Clinical Data Platform

Humanitas Research Hospital Group saw a need to unify clinical information fragmented across multiple systems, departments, and care pathways. A single longitudinal patient view became essential to support personalized care, advanced analytics, operational scalability, and future AI-driven healthcare scenarios. At the same time, Humanitas sought to create an interoperable, AI-ready data foundation capable of supporting not only clinical operations, but also research, medical education, and development of innovative digital health initiatives with connected devices and remote patient monitoring. The objective was thus to establish a scalable platform capable of transforming healthcare data into a strategic asset for care delivery, research, academic programs, and continuous innovation.

Humanitas implemented a unified clinical data platform to aggregate and harmonize healthcare information generated from multiple systems. Built on **InterSystems HealthShare Unified Care Record®** and **InterSystems Health Connect**, the platform integrates structured, unstructured, and patient-generated data into a longitudinal clinical repository, creating a comprehensive patient-centric view. The scalable architecture enables secure information sharing while providing an AI-ready foundation for future digital health applications.

Supporting Care and Research Now, Preparing for AI and More Innovation in the Future

The initiative has established a unified, AI-ready clinical data platform that today manages approximately **900 million clinical data points**, integrating information from multiple clinical systems to support care delivery, research, and data-driven health innovation. By providing healthcare professionals with timely and comprehensive patient information, the platform enables more informed clinical decision-making and creates the foundation for advanced digital health scenarios.

“We use the unified clinical record to seamlessly convert and harmonize structured and unstructured data into a longitudinal patient registry supporting clinical care, research, and AI innovation. The value of the platform lies not only in interoperability, but in the ability to transform healthcare data into actionable and AI-ready clinical knowledge.”

*Humanitas Research
Hospital Group*

Beyond patient care, the platform has become a strategic asset for research and medical education through the secure use of fully anonymized data. It supports clinical research, AI development, and interdisciplinary academic programs such as MedTec, developed with Politecnico di Milano, and DAIHS (Data Analytics & Artificial Intelligence in Health Science), created in collaboration with Università Bocconi.

Unified Clinical Data Platform: Present and Future Capabilities

InterSystems interoperability technology converts structured and unstructured healthcare information into a **Unified Longitudinal Clinical Data Registry**. Updated daily, the platform provides a comprehensive patient-centric view across the full care journey while supporting advanced analytics and AI-driven healthcare innovation.

Real-Time Interoperability and Data Harmonization: The platform integrates clinical, operational, and patient-generated information from multiple healthcare systems and digital workflows. It creates a scalable, interoperable foundation capable of supporting personalized care, clinical coordination, and future digital health initiatives.

AI-Ready Healthcare Data Architecture: Dedicated AI agents transform raw healthcare information into standardized AI-ready datasets to support clinical decisions, research activities, advanced analytics, and future digital care pathways.

Education and Research: Through secure use of fully anonymized healthcare data, the platform supports medical research, AI development, and interdisciplinary educational programs.

Integration of Sensor Data: A future capability will secure integration of real-time data generated by connected medical devices and wearable sensors into the unified clinical record. Combining patient-generated and clinical information, the platform will support AI-ready datasets for clinical decision-making and future digital health applications.

About the Winner: Humanitas Research Hospital and University

Humanitas is a leading European integrated healthcare ecosystem based in Milan, Italy. The organization combines a network of hospitals, a high-impact research center, and a private university to deliver innovative care, scientific advancement, and medical education. This integrated model fosters innovation in the use of data, interoperability, and artificial intelligence to improve patient outcomes and accelerate the evolution of digital healthcare.

About the InterSystems Impact Awards, Selected by an MIT Panel

Each year select client organizations are recognized at the InterSystems READY conference for projects driving positive change. Nominations are evaluated by independent judges from MIT on three criteria:

- **Makes a meaningful difference**
- **Breaks new ground**
- **Sets an example**

To learn more about the InterSystems Impact Awards visit

<https://www.intersystems.com/intersystems-impact-awards-2026/>