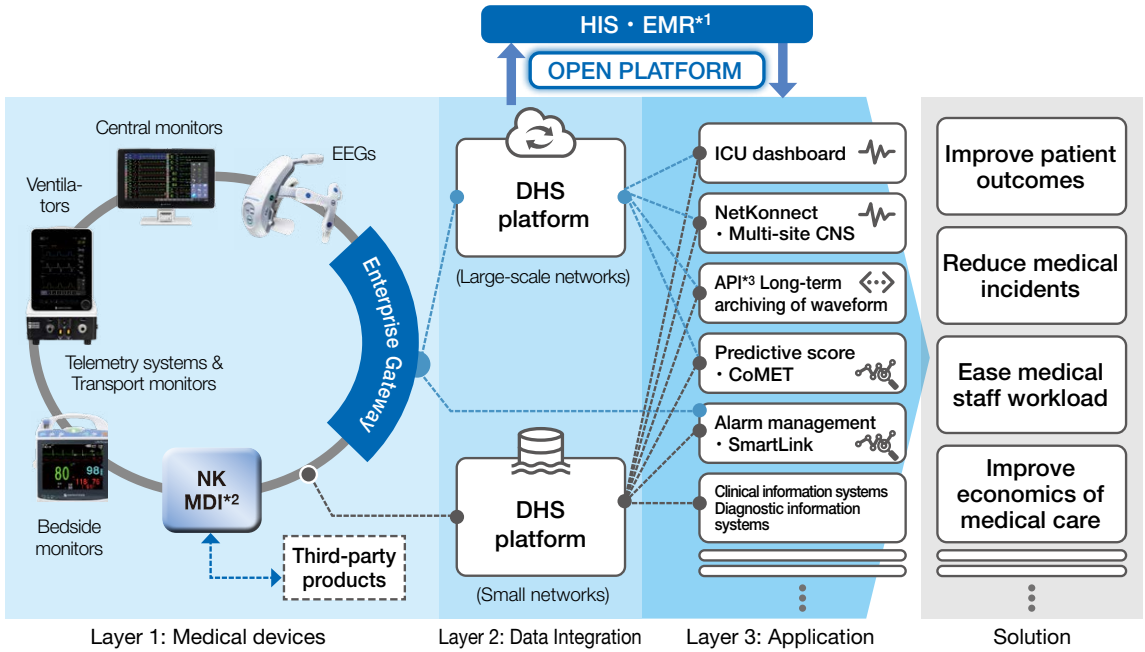
Development of Our Digital Health Solutions (DHS) Vision

Nihon Kohden is promoting the Digital Health Solutions (DHS) Vision to realize its Long-term Vision toward 2030, BEACON 2030.



Overview of our DHS Vision

*1 HIS: Hospital Information System, EMR: Electronic Medical Record.
*2 MDI: Medical Device Integration.
*3 API: Application Programming Interface.

In the Three-year Business Plan, BEACON 2030 Phase II, which started in FY2024, we are advancing the development of various solutions based on the platforms and technological capabilities established during Phase I. In FY2024, we launched a series of software and services developed in Japan and the U.S. into the market.

The QH-101N is dashboard software for monitoring patient condition, which calculates EWS*4 based on patients' vital signs such as respiratory rate, SpO_2, blood pressure, body temperature, and pulse rate obtained from electronic medical records. These data are aggregated and displayed on electronic medical record terminals and support the RRS*5, which is to be established to prevent sudden changes or deterioration in patient conditions within the hospital. The software for critical care units can also aggregate and display SOFA scores*6 obtained from electronic medical records and clinical information systems. EWS and SOFA scores are indicators that enable efficient detection of patient severity, and we expect that early intervention will lead to improved prognoses and bed utilization in clinical practice. We will continue to expand our clinical support applications, aiming to contribute to improving patient outcomes and the economics of medical care.

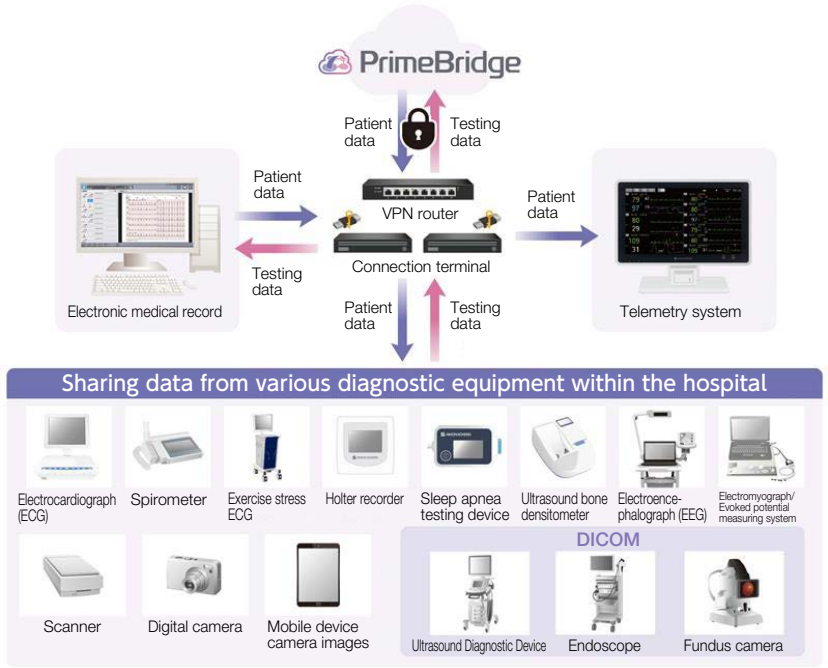


QH-101N, dashboard software for monitoring patient condition
Left: For general wards Right: For critical care units

*4 EWS: Early Warning Scores quantify patients' vital signs to identify acutely ill patients.
*5 RRS: Rapid Response System is designed to detect and respond to signs of sudden deterioration in inpatient conditions.
*6 SOFA scores: Sequential Organ Failure Assessment scores assess the degree of systemic organ dysfunction by scoring six variables: respiratory, coagulation, liver, cardiovascular, central nervous system, and renal function, each on a five-point scale.

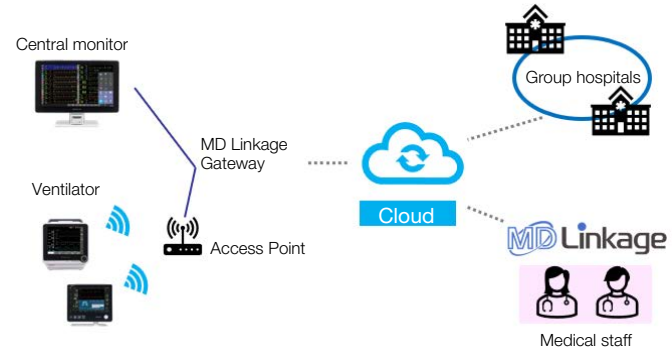
Development of Our Digital Health Solutions (DHS) Vision

PrimeBridge, a clinical assistant service for small and mid-sized hospitals, enables centralized, cross-departmental management and sharing of medical information such as patient data and testing data within the hospital. The service can also be accessed from outside the hospital. As a cloud service, it is expected to reduce maintenance costs and the risk of data loss. In addition, by linking electronic medical records and medical devices with patient data, the service is expected to contribute to improved operational efficiency, medical safety, and quality of medical care in clinical practice.



PrimeBridge system configuration

Furthermore, we launched the MD Linkage portal, a medical device remote monitoring system. This system sends maintenance information on medical devices to the cloud and provides prompt support in the event of equipment errors or failures, thereby reducing downtime and the time required for management. This allows more time to be dedicated to patient care, and we expect it will contribute to improving the quality of medical care and enhancing patient satisfaction.



Network configuration image of MD Linkage portal

In the U.S., we started offering RemoteSense, a remote ICU solution, developed by Nihon Kohden Digital Health Solutions, LLC, as a subscription model. This solution allows users to refer to the status of patients in ICUs at several medical institutions via a web browser and has already been adopted at several facilities.



RemoteSense, Remote ICU solution

To realize our Long-term Vision, BEACON 2030, we will continue to contribute to improving patient outcomes, easing medical staff workload, and improving the economics of medical care through the promotion of digital transformation (DX) in healthcare.