

STOP BUYING MEDICAL EQUIPMENT YOU ALREADY OWN

How SPARQ helps hospitals redirect capital spending, reduce equipment search time and improve patient care - without costly wiring or disruptive construction.

~20%	80%+	~10,000	2-3 DAYS
of equipment capital redirected to higher priorities	reduction in estimated equipment search time	trackers planned across three hospital facilities	to install and activate a complete facility

THE CHALLENGE

The Biomedical Engineering Department needed to track high-value medical equipment - including bladder scanners and IV pumps - across three hospitals with more than 400 beds.

When staff requested additional equipment, the team had no reliable way to know whether the same equipment was available on another floor, stored in the wrong room or sitting unused at another facility. High-volume equipment such as IV pumps was repeatedly requested even though the hospital believed it had already purchased sufficient inventory.

THE REAL PROBLEM

Without facility-wide visibility, purchasing more equipment often became the fastest response to an immediate request. Limited capital was being directed toward duplicate or unnecessary purchases instead of higher-priority clinical needs.

> The hospital did not necessarily have an equipment shortage.
> It had an equipment visibility problem.

FROM EQUIPMENT REQUESTS TO EVIDENCE-BASED DECISIONS

01
LOCATE EXISTING INVENTORY
See available equipment by room, floor, department or hospital facility.

02
REVIEW AVAILABILITY & USE
Confirm whether existing assets can be redeployed before approving another purchase.

03
REDIRECT CAPITAL
Invest limited capital in equipment and clinical priorities where the need is greatest.

VISIBILITY WITHOUT DISRUPTION

SPARQ was selected for its lower total cost of ownership and its ability to retrofit established hospital facilities quickly, cleanly and economically.

WHY CONVENTIONAL RTLS WAS NOT THE ANSWER

Most hospitals were built before real-time location systems existed. Retrofitting a conventional wired RTLS can require extensive construction, complex integration and prolonged disruption to clinical operations.

SPARQ's proprietary architecture uses battery-powered location infrastructure and plug-in gateways. There are no new wires to run and no major construction requirements. A complete floor can be equipped in just over an hour, and an entire hospital can be installed and fully operational in approximately two to three days.

DEPLOYMENT ADVANTAGE

- A complete floor installed in just over one hour
- A complete facility operational in two to three days
- No new wiring or disruptive construction
- Battery-powered infrastructure and plug-in gateways
- Real-time inventory and room-level visibility
- Significantly lower total cost of ownership

BETTER USE OF LIMITED CAPITAL

The capital budget will still be invested. SPARQ helps ensure it is directed toward equipment and departments where the need is greatest - rather than replacing inventory the hospital already owns but cannot locate.

The hospital estimates that approximately 20% of its medical-equipment capital spending can be redirected toward higher-priority clinical requirements.

> “We had a serious problem trying to determine what equipment we should spend our limited capital dollars on. High-volume equipment such as IV pumps was constantly being requested. We knew we had purchased enough inventory - we just had no idea where it was. Now, with the SPARQ platform providing real-time inventory and room-level visibility, this issue is simply solved.”
>
> **HOSPITAL BIOMEDICAL ENGINEERING DEPARTMENT**

MORE TIME FOR PATIENT CARE

Before SPARQ	With SPARQ	The benefit
Nurses were estimated to spend approximately one hour per shift searching hallways, storage rooms and other departments for required equipment.	Real-time inventory and room-level visibility have reduced estimated search time to approximately 10 minutes per nurse per shift.	Less frustration, faster access to equipment and more nursing time available for patients - an estimated reduction of more than 80% in search time.

A SCALABLE MULTI-HOSPITAL DEPLOYMENT

Operating in the hospital environment since March 2025, the system is expanding across three facilities with more than 400 beds and will ultimately include almost 10,000 trackers.

BETTER LIFECYCLE INFORMATION

SPARQ supports reporting on location, movement, inventory value, utilization, asset age, service history and replacement planning - giving BioMed stronger control throughout the equipment lifecycle.

SPARQ delivers the visibility hospitals need - with an installation model designed for the hospitals that already exist.