



SmartRFiD, a division of ADA Security Systems, is an Irish technology company specialising in RFID (Radio Frequency Identification) and IoT solutions that deliver real-time visibility, automation, and security across sectors including healthcare, manufacturing, logistics, and asset management. The company combines a tailored ecosystem of RFID hardware (readers, scanners, portals, inventory units) with its cloud-based SmartLOC8 (SL8) platform to provide seamless tracking and management of people, assets, and inventory.

SmartRFiD's team of engineers and consultants create scalable, sustainable, and interoperable solutions. Clients include the Logistics, Healthcare, Pharmaceutical, and Manufacturing sectors. The company aims to deliver value by streamlining processes and enhancing organisational asset visibility.



Patrick O'Connor,
SmartRFiD CEO

PRODUCT PILOT



About Health Innovation Hub Ireland

Health Innovation Hub Ireland (HIHI) was established by the Department of Business, Enterprise and Innovation and the Department of Health and is supported by Enterprise Ireland (EI) and the Health Service Executive (HSE) to drive collaboration between the health service and enterprise. We offer companies the opportunity for pilot and clinical evaluation studies and we provide the health service access to innovative products, services and devices that they may not otherwise be exposed to.

HIHI is built on the recognition that collaboration with enterprise can benefit patient care, patient pathways

and outcomes. We assess all concepts for healthcare innovation from those on the frontline – from clinician to porter. We encourage healthcare professionals to get in touch with HIHI if they have an idea or solution to how something in your job might work better.



The Healthcare Challenge

An essential part of medical device technology management is knowing where the technology is. With devices becoming smaller and more portable it is more difficult to accurately locate them. This poses several challenges that can be broken into two main categories: Patient Services support and Medical Device Management.

If clinical staff can't locate their medical devices in a timely manner, their ability to conduct their clinics can be impeded and cause unnecessary delays. Medical Devices need regular maintenance and calibration checks, so it is important that hospitals can identify where equipment is so that these checks are done on schedule.



The Healthcare Solution

SmartRFID provide customisable radio frequency identification systems for organisations in the public and private sector. These systems are managed by their SmartLoc8 application. They collaborate closely with clients to understand their specific asset management needs, goals and challenges. They then design real time movement systems that match operational requirements and business objectives.

By using RFID antennae at doorways and key locations, SmartRFID system can locate a devices last location and update an asset tracking database. Hospital staff can use this database to identify where and when their equipment was last detected.



HIHI Role

In Tallaght University Hospital, the Clinical Engineering Department are taking a lead on these challenges already and were selected to be take part in a pilot with SmartRFID.

Health Innovation Hub Ireland supported SmartRFID in the pilot with two phases. Phase one was a technical evaluation of the SmartRFID system with TUH Clinical Engineers. Phase two was the delivery of the installation and usage of the SmartRFID system on-site in Tallaght University Hospital.



Outcome Report

The tracking of healthcare assets was available in almost real time. The system successfully demonstrated the ability to show a “last seen” location for the assets being tracked through the areas monitored. The data update from the RFID readers about a device, to the database was immediate.

The system demonstrated how robust it was in handling large volumes of data. It was capable of monitoring approximately 500 healthcare assets with no downtime or impact on the application or the readers. The system worked with no technical issues for the duration of the pilot. The system proved its scalability by the addition of additional antennae on the RFID readers. This allowed the system to provide even more details information about location.

The technical expertise that the company has coupled with the technology they provide, shows that SmartRFID services could be a highly valuable resource to support healthcare services through the efficient and effective management of medical device technology and other healthcare assets. Post pilot, the Clinical Engineering Department Tallaght University Hospital, will be considering fixed, passive RFID systems for the management, tracking and security of its medical device technology

Testimonials

“Our project in TUH was our second with HIH and again it was a very positive experience for ADA. The deployment in a live hospital setting of our new RFID readers and advanced software was invaluable to us. It allowed us to fully integrate with new and existing tags and hardware, and we are happy to report that the system worked perfectly.”

From initial engagement full product deployment, the HIHI team couldn't have been more supportive and helpful.”

Pat O'Connor, CEO,
Smart RFID



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