# Smart Health

## Embracing Digital Innovation and Technology

The healthcare industry has witnessed significant transformation over the last few years, aided by the emergence of new technological advancements, such as IoT and Big Data analytics.

NHS England are tasked with delivering £30bn of savings per annum by 2020/21, but each year, across the country, millions of pounds worth of vital equipment is stolen such as defibrillators, baby heart monitors, even beds! Huge Savings could be made by the increasing use of IoT solutions which will not only help to prevent, detect and investigate cases of equip- ment theft, but also ensure staff are tending to patients not spending hours looking for patients and assets.

Technology will play a huge part in helping the NHS to meet their targets.

## The Iknaia Solution

Iknaia uses smart low energy technology, that can be utilised to improve efficiency in hospitals and other healthcare organisations, to keep track of equipment, log and monitor staff activities within hospitals, improve health and safety and to keep track of patients. Identifying key assets in 'real time' could save lives.

Our bespoke hardware and 'self-service' online dashboard is easy to configure and view, allowing staff to locate asses in 'real-time'. Our additional API can also be used to fully integrate data into any third party platform.

Our network of nodes can be set up to connect with existing infrastructures and devices, or if preferred can be deployed on a completely isolat- ed basis so as not to interfere with any existing IT systems.

It has widespread application within the healthcare industry and helps to enable the 'Smart Hospital'.

## UK Statistics

- Estimated that the health service is losing on average £13m annually in lost items

- Between 10% and 20% of a typical hospital's mobile assets are lost or stolen during their useful life
  (Source : AMR Research)

- North West London Hospitals NHS Trust wrote off more than £220,000 for a one-year period in 2010-2011 in stolen medical equipment

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Smarter Tracking, Smarter World

## The NHS
UK

The National Health Service is the publicly funded national healthcare system for England and one of the four National Health Services of the United Kingdom. It is the largest and the oldest single-payer healthcare system in the world. It consists of :

- 207 clinical commissioning groups

- 135 acute non-specialist trusts (including 84 foundation trusts)

- 17 acute specialist trusts (including 16 foundation trusts)

- 54 mental health trusts (including 42 foundation trusts)

- 35 community providers (11 NHS trusts, 6 foundation trusts, 17 social enterprises and 1 limited company)

- 10 ambulance trusts (including 5 foundation trusts)

- 7,454 GP practices

- 853 for-profit and not-for-profit independent sector organisations, providing care to NHS patients from 7,331 locations

Source : http://www.nhsconfed.org

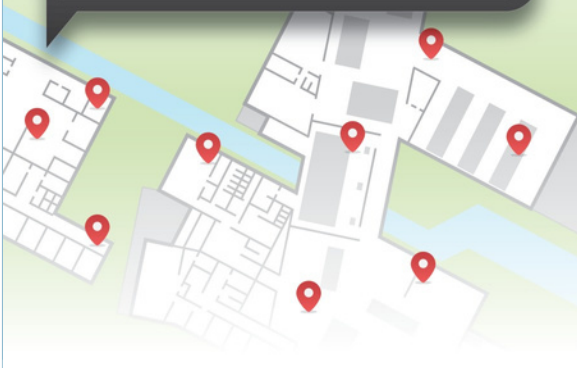Protect and locate your assets and workers in real-time

## Case Study

In most major NHS hospitals in the UK, some RFID systems are in place for the ability to log assets on a central database but no real-time tracking solution is implemented to identify the location of assets, staff or patients.

Due the architecture of some older NHS hospitals, GPS tracking solutions don't work, as there is limited or no mobile network signals.

Iknaia were afforded the opportunity to install its technology into a large NHS hospital in the North of England. Detector nodes were installed in each of the 8 operating theatres to track and monitor assets in real-time moving from theatre to theatre. Nurses were given a floor plan view on an online dashboard to identify and locate assets, saving manual searching time.

The detector network was installed as a completely standalone network, with each node communicating the data to the other and using 3G to back haul the data to our cloud servers.

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