

# Meet our 2022/23 innovators

Innovations for a Net Zero NHS



# About us

The AHSN Network  
**DIGITAL North**

## Digital North

The Digital North Accelerator programme is a collaborative enterprise established by the four northern AHSNs. It aims to support regional digital health technology firms in the adoption and spread of their proven innovations within the healthcare system. Successful regional solutions are then guided towards national adoption through the Innovation Exchange programme.

The 2022/23 “Innovations for a Net Zero NHS” programme will deliver game-changing digital innovations which support the sustainability challenges of our NHS partners as set out by NHS in their recent publication “Delivering a Net Zero National Health Service”.

## The AHSN Network and Northern AHSNs

The AHSN Network incorporates 15 regional bodies which operate as the innovation arm of the NHS. Across the country AHSNs act as a bridge between health care providers, commissioners, academia and industry. By connecting these sectors, we provide a pipeline of solutions from research and product development through to implementation and commercialisation.

Of the 15 AHSNs, there are four in the north: Yorkshire & Humber AHSN, Health Innovation Manchester, Innovation Agency North West Coast and North East and North Cumbria AHSN.

We aim to embed innovative products and services within routine clinical practice, stimulating regional economic growth whilst improving patient outcomes and transforming lives.



# Our 2022/23 cohort

The AHSN Network  
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We are delighted to introduce the eight companies who will be taking part in the 2022/23 Digital North accelerator programme:



## Concentric Health

A digital consent application sharing personalised information and documenting consent used by patients and clinicians.

🌐 <https://concentric.health>



## Definition Health

Definition Health delivers an end-to-end digital surgical pathway from pre assessment to recovery.

🌐 [www.definitionhealth.co.uk](http://www.definitionhealth.co.uk)



## Dignio

The Connected Care Solution from Dignio combines methodology and technology to keep people out of hospital.

🌐 <https://dignio.com/uk/>



## Healthy.io

Healthy.io provides a digitally enabled UTI Test and Treat Service and a Digital Wound Management System.

🌐 <https://healthy.io/eu/>



## Q Energy

Carbon reduction services and AI based energy optimisation for buildings to help businesses achieve Net Zero carbon emissions.

🌐 [www.qenergy.ai](http://www.qenergy.ai)



## THERAPYAUDIT

A modular digital health platform enabling the monitoring of patients safely and at scale.

🌐 [www.beetroothealth.com](http://www.beetroothealth.com)



## TytoCare

A comprehensive remote physical exam and diagnosis solution beyond video.

🌐 [www.tytocare.com/digital-health-hub](http://www.tytocare.com/digital-health-hub)



## XR Therapeutics

Unique virtual reality treatment which combines traditional Cognitive Behaviour Therapy (CBT) with Virtual Reality (VR).

🌐 [xrtherapeutics.co.uk](http://xrtherapeutics.co.uk)

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## Concentric

### Concentric Health

Consent to treatment is a key element of care, impacting the quality of clinical decision-making, experiences of patient-centred care and organisational medico-legal risk. The current paper consent process is a poor experience for patients and clinicians, leading to significant errors, inappropriate variation and annual NHS medico-legal costs in excess of £50m. With remote treatment pathways necessitated by COVID-19, the existing process is incompatible with post-COVID healthcare.

Concentric Health is a digital healthcare company working to transform the way decisions are made about our health - informed by patient outcomes, and shared by patient and clinician.

Concentric is the market leading digital consent to treatment application, with remote consent functionality, making it easy for clinicians to share personalised information with patients; leading to informed, shared decisions. Concentric has been shown to significantly improve patient experience of shared-decision making compared with paper consent.

<https://concentric.health>



## DEFINITION HEALTH

### Definition Health

Founded in 2018 by two NHS consultants, Definition Health's mission is to redefine the delivery of surgical care of patients through effective digital communication and monitoring. Definition Health is the only end to-end digital surgical solution to operate across all surgical specialties. To date Definition Health solutions have supported c.100,000 patients across six NHS trusts and six independent sector hospitals in their surgery and recovery.

Definition Health's digital surgical pathway is delivered through three interoperable modules:

- Lifebox – electronic pre-operative assessment tool
- Connect – secure file sharing and virtual communication platform
- Recovery – virtual ward supporting patients post discharge

A case study published by NHS demonstrated a 60% reduction in outpatient footfall, c.2,000 hours saved in patient attendance time and over £100,000 saving per 5,000 patients. Definition Health solutions deliver a sustainable surgical pathway, taking paper out of the process and reducing unnecessary travel for patients.

[www.definitionhealth.co.uk](http://www.definitionhealth.co.uk)

# | Our 2022/23 cohort

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## Dignio

Dignio is a value-driven company established in 2010 in Norway. Dignio enables clinical staff to work at the top of their licence and integrating care delivery with the disease agnostic. They offer a flexible and cost-effective solution combining methodology, software, hardware and deployment support achieved without the need to adjust the local processes to fit the tech.

Dignio solution comes to serve the needs of the local clinical organisations, care systems, patients and those supporting them, with an easy route to fast adjustment of any features in the solution itself, without additional costs or development time. Dignio is the only UK provider with a fully integrated NICE recommended ECG device from Alivecor, and their solution supports the world's first AF Virtual Ward in Leicester. As a sustainability focused company, they help customers work towards their Net Zero ambitions.

<https://dignio.com/uk>



## Healthy.io

Healthy.io transforms the smartphone camera into a medical device to deliver healthcare at the speed of life. Their technology helps patients find the right moments to manage their health. Their home urinalysis and digitised wound care services enable providers and healthcare systems to create meaningful interactions with patients and close gaps in access and care, while increasing patient satisfaction.

Minuteful for Wound is a DTAC compliant digital wound management solution, aligned with the National Wound Care Strategy Programme best practice pathways, which empowers clinicians, reducing waste and unwarranted variation in care. It provides accurate, reliable, standardised data for clinical decision making and service transformation. Healthy.io's digitally enabled UTI pathway seeks to make treatment of uncomplicated UTI more accessible and convenient whilst minimising pressure on NHS services and improving antimicrobial stewardship. The Minuteful UTI service allows women with uncomplicated UTI to test for UTI and receive timely treatment and care, without needing a GP appointment. Minuteful UTI's innovative technology is equivalent to the laboratory-based urinalysis point-of-care testing method.

<https://healthy.io/eu>

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## **Q Energy**

Q Energy is an award winning Manchester based software development company that specialises in energy management and smart carbon reduction services for businesses.

Q Energy provides peak power reduction and energy optimisation for commercial buildings, with Artificial Intelligence based model on each site ensuring that the thermal comfort of tenants and any process requirements are maintained while turning up/down individual systems in the building. By providing the technology to intelligently control the site's energy demand in response to the requirements from the electricity network, Q Energy unlocks the value of flexibility in consumer's energy consumption and gets the best returns for renewable generation, energy storage, and EV battery assets on-site. Q Energy helps businesses understand their current carbon footprint and introduce a reduction plan with the above mentioned energy changes to achieve Net Zero carbon emissions.

[www.qenergy.ai](http://www.qenergy.ai)



## **THERAPYAUDIT**

beetroot is a multi-modular digital health solution platform specialising in the monitoring of people to identify problems with their health and wellbeing. It's supplied to NHS, Public Health and third sector customers by THERAPYAUDIT. The platform has evolved over many years from predecessor versions and in collaboration with long-standing MHS customers. It comprises a number of modules, some of which can be deployed to the same customer such as beetrootDMARD and beetrootCANCER which are both used in Mid and South Essex ICS.

beetroot is deployed to NHS organisation networks, to HSCN servers (for NHS-wide coverage), and to RackSpace servers for public-facing modules like beetrootCCARD. Development work is underway to create read-write capability to GP EHR systems to support primary-care facing modules. As well as mature, revenue generating modules, there is always a pipeline of new modules in development, for example beetrootCHECK&FILE which has the potential to save GPs time to the equivalent of £200 million across England, and beetrootAMR which could provide one solution to the challenge of anti-microbial resistance.

[www.beetroothealth.com](http://www.beetroothealth.com)

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## TytoCare

Launched in 2016, TytoCare is a digital healthcare solution that enables remote medical exams, beyond just video.

TytoCare seamlessly connects people to clinicians to provide the best virtual home examination and diagnosis solutions.

Its solutions are designed to enable a comprehensive medical exam from any location and include a hand-held, all-in-one tool for examining the heart, lungs, skin, ears, throat, abdomen, and body temperature; a complete platform for sharing exam data, conducting live video exams, and scheduling visits; a cloud-based data repository with analytics; and built-in guidance technology and machine learning algorithms to ensure accuracy and ease of use for patients and insights for healthcare providers.

 [www.tytocare.com/digital-health-hub](https://www.tytocare.com/digital-health-hub)



## XR Therapeutics

XR Therapeutics offers a unique virtual reality treatment which will help reduce anxieties and treat phobias for children, young people and adults. By combining traditional Cognitive Behaviour Therapy (CBT) with Virtual Reality (VR), their therapists can recreate scenes tailored to the patient's individual needs. The unique treatment can be adapted by the therapist in real time, they have complete management of the rate of exposure to the phobia, controlling the volume or pace of the chosen scene.

Initially, treatment was aimed at people with autism who had a specific phobia or anxiety. But now XR Therapeutics are expanding it to treat those with mental health issues and to those whose lives have been restricted by a phobia.

Their methods have been extensively tested and have been commended by NHS practitioners. XR Therapeutics was formed following almost a decade of research into immersive therapy using VR by Newcastle University. As well as supporting individuals throughout their treatment, XRT provides an ongoing support package which gives our service users the ability to live a fulfilling life.

 <https://xrtherapeutics.co.uk>

# | The 2022/23 programme

Digital North was created to provide innovative organisations with access to tailored support and advice.

Digital North promotes the uptake and growth of innovative technologies, accelerating engagement with NHS stakeholders and stimulating market presence across the north of England.



Digital North will promote the innovations to key NHS stakeholders at two virtual events

**Helen Hoyland**  
Head of Portfolio – Commercial,  
Digital and Growth

## Assistance includes:

- Providing a named support lead within the AHSN network.
- Co-developing the value proposition.
- Reviewing business cases and associated evidence to-date and co-developing a localised business strategy.
- Co-creating a narrative for adoption of the solutions across the north of England.
- Promoting the solutions to key decision makers via NHS-focused virtual events in the north of England.
- Publicising the solutions through the AHSN Network.
- Providing a series of masterclass modules delivered by experts from the AHSN, NHS England Greener Team and NHS sustainability leads, for distilling knowledge of net zero and carbon calculators to ensure each solution's business case articulates its decarbonisation benefits and how they may contribute to achieving healthcare organisations net zero objectives.

## Programme priorities:

- Supporting our NHS partners with innovation that aligns with their key requirements.
- Increasing engagement between companies and commissioners.
- Increasing the number of digital innovations successfully introduced to the NHS across the north of England.
- Increasing the number of patients benefitting from the uptake of digital innovations.
- Enabling companies to benefit from information, advice, signposting and support.
- Supporting company growth by attracting investment and increasing market share.

# | The Events

The AHSN Network  
**DIGITAL North**

## Showcases for health and care personnel

We are looking forward to running several virtual showcase events in December 2022 to promote these exciting new innovations to our NHS stakeholders.

### **Showcase 1 : Fri 02.12.22**

**VIP Speakers on sustainability within the NHS**

- Concentric Health
- Dignio
- Definition Health
- TytoCare

[www.eventbrite.co.uk/e/digital-north-accelerator-programme-innovations-for-a-net-zero-nhs-tickets-465650201287](https://www.eventbrite.co.uk/e/digital-north-accelerator-programme-innovations-for-a-net-zero-nhs-tickets-465650201287)

### **Showcase 2 : Fri 09.12.22**

**VIP Speakers on sustainability within the NHS**

- Healthy.io
- Therapy Audit
- Qbots
- XR Therapeutics

## Masterclasses for our cohort



Our 2022/23 cohort will receive a series of masterclass events delivered by experts from the Greener NHS team and AHSN sustainability leads. They will receive guidance on how to update their business case and product information to demonstrate how their innovation supports the healthcare organisations net zero objectives.



# Contact us

The AHSN Network  
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