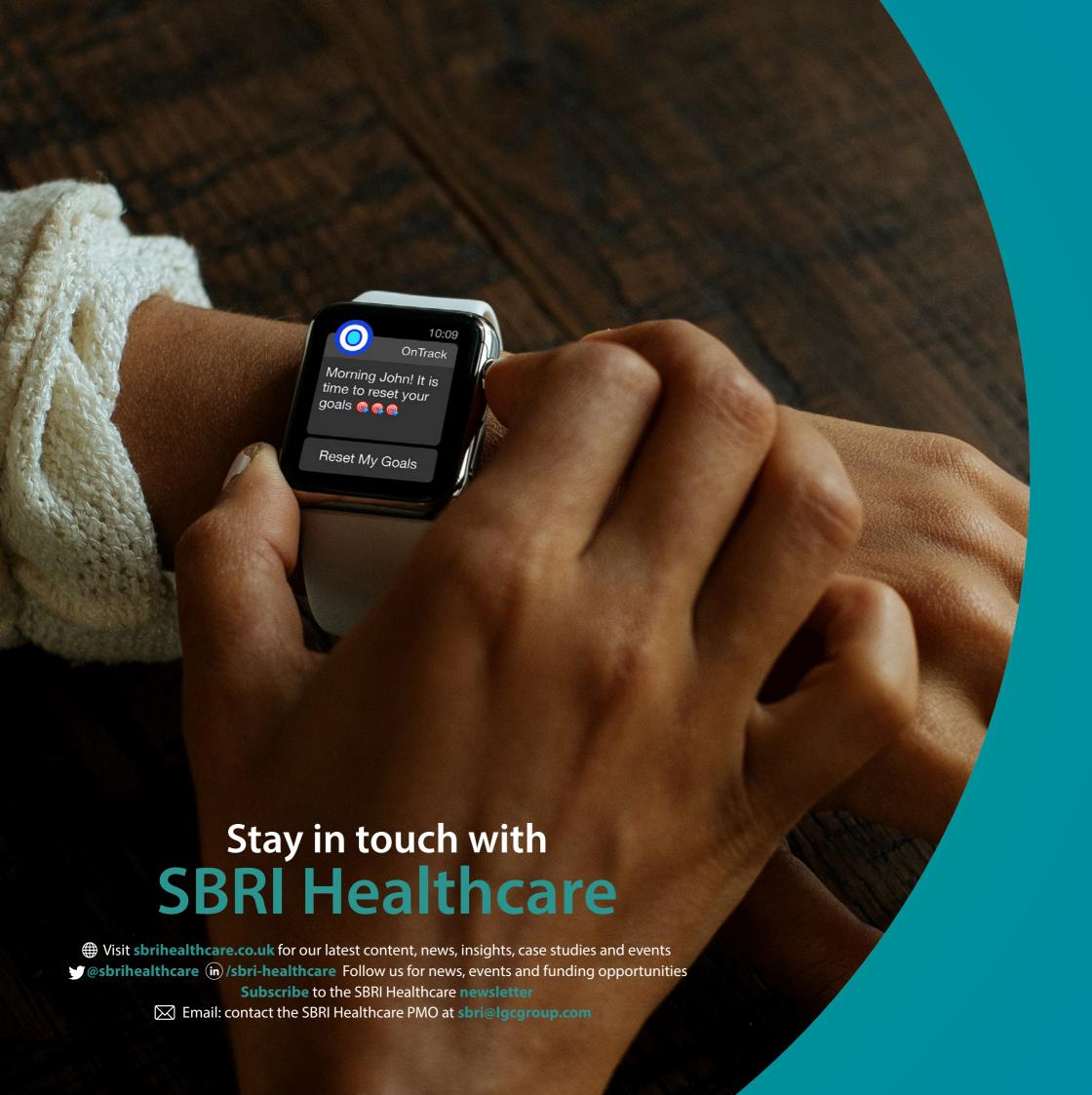






ACCELERATING INNOVATION IN HEALTH AND SOCIAL CARE FOR PATIENT BENEFIT





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SBRI Healthcare Programme The Small Business Research Initiative(SBRI) Healthcare is a national award-winning programme which offers development funding to innovators and entrepreneurs to devise disruptive solutions in the NHS and the wider health and social care system, tackling unmet health and care needs.

The Programme is funded by the Accelerated Access Collaborative (AAC) which brings together industry, government, regulators, patients and the NHS, is hosted by LGC Group, and supported by England's 15 Academic Health Science Networks (AHSNs).

The NHS Long Term Plan goals focused on areas including funding, staffing, reducing inequalities, and alleviating the pressures from a growing and ageing populations.

The SBRI Healthcare Programme signals the challenges that the NHS and the wider system face in achieving these goals and invites outstanding entrepreneurs to put forward breakthrough innovations that can deliver improved outcomes of care. Individual competition themes are scoped by working in close collaboration with frontline NHS and social care staff.

Through the available funding and support from its networks, the Programme:

Improves patient care

Increases NHS efficiency

Enables the NHS to access new innovations that solve identified health and care challenges and unmet needs

Brings economic value and wealth creation opportunities to the UK economy.

To be awarded a contract, applicants need to show the impact that the proposed solution can deliver to the health and care system, ensure the innovation will be acceptable to patients and affordable to the NHS, has the potential to shape the future of healthcare, deploying new models of care and helping tackle health inequalities and reducing carbon emissions.

Competitions are open to any type of organisation, as long as a strong commercialisation plan is presented, including academia, NHS providers, charities and corporates, but are particularly suited to small and medium-sized enterprises.

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The SBRI Healthcare awards are vital in enabling the NHS to foster and introduce high impact innovations to address key NHS priorities. The pioneering technologies awarded are great examples of the NHS spearheading the most forward-thinking solutions in the healthcare landscape

Matt Whitty, CEO, Accelerated Access Collaborative



In the Financial Year April 2020 - March 2021

During FY 20/21, the Programme launched a new competition to tackle unmet needs in Urgent and Emergency Care and awarded over £1.1 million to twelve innovations that reduce demand and length of stay in emergency departments which have been under increased pressure due to COVID-19.

The Programme also awarded £2.8 million to four Phase 2 projects pioneering innovations in the fields of Cardiovascular Diseases and Integrated Care and **Social Care** to fast-track technologies through the next stages of commercialisation.

Competitions supported

challenges (Cardiovascular Diseases, Integrated Care and Social Care, Urgent and **Emergency Care**)

Phase 2

Phase 2

applications submitted

companies

£3.9m

URGENT AND EMERGENCY CARE (PHASE 1)

e consult

eConsult Health Ltd

Clinically-led, innovative healthcare software platforms, including eTriage (digital urgent and emergency care triaging) and eConsult (online

Health Navigator Ltd

primary care consultations)

An Al-guided clinical coaching system using a nurse-led proactive care model, which remotely supports patients identified by machinelearning-based case finding

Kinseed Ltd

SwiftCare is a product to support the Unified Paediatric Advice and **Guidance Service**

Invitron Ltd

invitron

An ultra-sensitive diagnostic test to rapidly detect heart attack (myocardial infarction) in individuals, typically in A&E, primary care, or ambulance

Medtechtomarket Consulting



Novel, highly sensitive, simple and low cost test for both paracetamol overdose and liver damage with just a finger stick blood sample

NeuroResponse CIC

A triage, streaming and infection treatment pathways service, which offers a portal to host a care plan that clinicians see when patients call **NHS 111**

52 North Health Ltd

(previously NeutroCheck Ltd)

Development of a novel point ofcare blood finger prick device, NeutroCheck, that identifies adult chemotherapy patients requiring emergency admission for suspected neutropenic sepsis

Primum Digital Ltd

Health economic evaluation of OrthoPathway, a progressive web application that provides a patient care pathway editing suite with a governance structure

Psyros Diagnostics Ltd

PSYROS

A rapid, affordable, ultra-sensitive point-of-care (POC) system, to fulfil the unmet need for bedside high sensitivity troponin measurement

RAIQC Ltd

Cutting-edge clinical simulation platform that allows users to be taught and assessed for different imaging modalities ranging from X-rays to CT and MRI scans

Recourse AI Ltd

Development and evaluation of a scalable simulation-based training platform that supports independent skills-based learning for healthcare professionals in order to improve education in the community and EDs, reducing pressure on acute services and length of stay

Stream Bio Ltd

stream bir

Point-of-care diagnostic test to detect heart attack biomarkers

CARDIOVASCULAR **DISEASES (PHASE 2)**

AIMES

AIMES

Al-enhanced MRI measurement of heart function for speed, accuracy and prognostication

INTEGRATED CARE AND SOCIAL CARE (PHASE 2)

Brain in Hand Ltd

braininhand

Transforming the model of care for



In the Financial Year 2021 - March 2022

During FY 21/22 the programme launched a call seeking breakthrough technology solutions to support **Stroke patients** and awarded **£800,000** to nine innovations. The Programme also awarded **£1 million** Phase 1 funding to ten innovations to support the NHS to reach its **Net Zero targets**. The Programme is grateful to the Stroke Association and the Greener NHS team for their financial contribution to the competitions.

£8 million was awarded to nine innovations to progress to Phase 2 in support of **Urgent and Emergency Care**.

£1.3 million was awarded to three innovators tackling Mental Health Inequalities in Children and Young People, and £4 million to nine innovations working towards NHS Reset and Recovery & New Ways of Working to generate evidence in real-world settings (Phase 3).

and a CDI

It's great to see the SBRI Healthcare Stroke and Technology competition supporting innovation across three crucial areas including helping to increase pre-hospital diagnosis, enhance rehabilitation and supporting stroke survivors to rebuild their lives. These 9 projects offer an exciting glimpse at how technology can benefit patients and support stroke teams to deliver personalised care throughout every patient journey. I'm looking forward to seeing them develop across our Integrated Stroke Delivery Networks.

Dr Deb Lowe, National Clinical Director for Stroke, NHS England **3** Competitions supported

Challenges
(Urgent and Emergency Care, Stroke and Technology, Delivering a Net Zero NHS, Mental Health Inequalities in Children and Young People, NHS Reset and Recovery & New Ways of Working)

Phase 1
applications submitted

Phase 1 companies awarded

Phase 2 proposals assessed

Phase 2 companies awarded

Phase 3 proposals submitted

Phase 3 companies awarded

£13m total investment

STROKE AND TECHNOLOGY (PHASE 1)

Cognitant Group Ltd

COGNITANT

Providing a coordinated, connected world for stroke survivors and their families through a personalised, digital support package: the 'My Stroke Companion' hub

Evolv Rehabilitation Technologies

evolv

Home-based virtual therapy platform to increase therapeutic activity and improve quality of movement for stroke patients

IbisVision Ltd

Stroke Rehab Vision testing



Imperial College London

Imperial College London

OnTrack Rehab: Translation to practice of a novel digital rehabilitation system after stroke

Medical Data Solutions and Services Ltd

MARS – Monitoring Arm Recovery after Stroke



M-Trust Imaging Ltd

Pre-hospital stroke diagnosis and triage using full-waveform inversion of transmitted-ultrasound



NeuroVirt Ltd

Immersive Virtual Reality Games for post-stroke home rehabilitation and clinician monitoring



Odstock Medical Ltd

OML |

Two-channel neuromuscular stimulator to help improve walking and arm function for people with partial paralysis

POCKIT Diagnostics Ltd

A point-of-care blood test for the pre-hospital identification of stroke patients suitable for emergency thrombectomy treatment



This funding partnership with SBRI Healthcare addresses the real needs of people affected by stroke and clinicians by being informed by our Stroke Priority Setting Partnership. These ambitious projects aim to get new innovations tested and embedded in health and care systems as swiftly as possible, improving the care of stroke survivors. Improved pre-hospital diagnosis will help ensure people get the right care as quickly as possible, critical for effective stroke treatment as every minute stroke goes untreated, 1.9 million brain cells die. We know people do not get enough quality rehabilitation and long-term care after their stroke, so new innovations are needed to help people make the most of their recovery and rebuild their lives.

Dr Richard Francis, Head of Research, Stroke Association

DELIVERING A NET ZERO NHS (PHASE 1)

Apian Ltd

Medical drones to provide a safe, reliable, low-carbon alternative to current couriers

Concentric Health Ltd

Concentric

Digital consent application supporting patients and clinicians to make informed, shared decisions about care and explore the feasibility of introducing carbon impact into the shared decision-making process

Elegant Design & Solutions Ltd

Envirolieve, a novel delivery system to reduce Entonox consumption enabling the same safe and effective pain relief but with dramatically less environmental harm

Green Rewards Limited

,jump

Jump, a world-first healthcare specific carbon engagement tool to motivate low-carbon decision making

Open Medical Ltd

A Cloud based workflow solution helping clinicians to prepare patients for surgery, facilitate sustainable decision making, and support recovery at home

Primum Digital Ltd



OrthoPathway is the first in a range of web applications designed to assist clinicians in making the best low-carbon decisions for every patient encounter

Rutherford Research Limited (now

Revolution-ZERO Limited) - specialist surgical textiles designed for reuse with zero waste, zero carbon targeted manufacturing and reprocessing services

TCC-CASEMIX Ltd



Carbon registry to help clinicians and patients reduce carbon emissions in surgical pathways

Ufonia Ltd



Autonomous telemedicine triage to increase the sustainability of hospital referrals where clinically appropriate



A user-friendly, evidence-based tool to support low-carbon decision-making in medicines procurement and prescription

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URGENT AND EMERGENCY CARE (PHASE 2)

52 North Health Ltd



(previously Neutrocheck Ltd) Helps rapidly identify chemotherapy patients at risk of a life-threatening complication called neutropenic

eConsult Health Ltd



invitron

eTriage is a digital triage solution for EDs and UTCs designed to automatically check-in and prioritise (triage) patients upon arrival

Health Navigator Ltd THN Empowered patients Sustainable healthcare

Deploys artificial intelligence on NHS data to identify patients at risk of consuming avoidable non-elective bed days

Invitron Ltd



Portable diagnostic device to enable extremely sensitive and accurate medical diagnostic tests to be performed quickly and easily at the point-of-care

NeuroResponse CIC



NeUro is an application enabling people living with long-term neurological conditions to access expert advice 24/7 in the diagnosis and management of urinary tract infections

Primum Digital Ltd



Web applications designed to enable experts to collaborate at scale

Psyros Diagnostics Ltd PSYROS



Ground-breaking single molecule counting technology that is compatible with point-of-care settings

RAIQC Ltd

Clinical simulation platform for medical image interpretation

Recourse AI Ltd



RAIQC)))

Increasing NHS workforce capacity by cutting the time required to train, assess, and upskill clinicians, pioneering a "flight simulator for healthcare"



The demand for emergency care is seeing unprecedented growth. New innovations offer the opportunity to manage emergency care in a very different way, one which is sustainable and which delivers appropriate high quality care in the right setting and at the right time. The funding from SBRI's Urgent and Emergency Care competition enables exciting innovations to help predict and avoid unplanned admissions and guide healthcare professionals through complex decisions, enabling advanced and novel ways of training staff and supporting earlier detection and management of health deterioration.

and Clinical Director at the NIHR Devices for Dignity MIC

All the projects we assessed were of high quality and will improve the lives of our service users and/or our staff as they are rolled out. They will make a positive difference to improving young people's mental health and/or to supporting the reset and recovery of health and care services.

Dr Liz Mear, Chair of the SBRI Healthcare Phase 3 Panel



MENTAL HEALTH INEQUALITIES IN CHILDREN AND YOUNG PEOPLE (PHASE 3)

BfB Labs



Therapeutic digital intervention supporting 7-12 year olds facing difficulties and anxiety

braininhand **Brain in Hand Ltd**

Addressing mental health inequalities by overcoming implementation barriers in mental health support: demonstrating the effectiveness of combining digital tools and human support for neurodivergent people

Tellmi (previously MeeToo



Improving equality of access to mental health support via digital peer-support



NHS RESET AND RECOVERY & NEW WAYS OF WORKING (PHASE 3)

Cyted Ltd



Cytosponge, a non-endoscopic test for the earlier detection of oesophageal conditions, in Primary and Community Care

Concentric Health Ltd



Transforming the way healthcare professionals share treatment decisions and consent of their patients. It uses industry leading technology to enable digital and remote consent, informed by patient outcomes



Definition Health Ltd

The first digital tool that covers the entire patient journey for all patients undergoing surgery



Dr Julian Medical Group Ltd

Improving Access to Psychological Therapies (IAPT) services to provide structure, organisation and enhanced patient care

MediShout Ltd



Digital Platform to improve operational efficiencies and elective recovery in NHS hospitals

Rumi Medtech Ltd



REMCARE allows healthcare organisations to collect realtime health status information from patients, enabling accurate prioritisation of waiting lists and outpatient transformation

Sapien Health Ltd



Complete, at-home digital clinic supporting people before, during and after surgery to make sustainable lifestyle changes

Ufonia Ltd

Q Ufonia

Roll out of Dora, the automated clinical assistant, to the cataract pathway

Mastercall Healthcare Ltd



Integrated Technology **Enhanced Care Homes** 24/7 Remote Monitoring Service



SBRI funding was critical in de-risking our technology, with Phase 1 enabling us to develop our first prototype in early 2021. Phase 2 funding which took us through key high-risk device development stages, and enabled us to generate the MVP of our app, helped to open the door to private investment in late 2021. The Programme has also provided added brilliant benefits such as the opportunity to exhibit at MedTech Expo in June 2022, enabling us to generate brand awareness, build relationships with suppliers, and even to meet a new hire!

> Umaima Ahmad, CEO & Co-Founder, 52 North Health

> > Continued...

Enhanced support for innovators

In 2020 and 2021, two years of unprecedented challenges, the SBRI Healthcare Programme, in partnership with AAC's AI Awards and NIHR Invention for Innovation (i4i), has enhanced its support for innovators to help maximise the potential for successful project outcome delivery at each stage of the venture journey.

Setting the strategic direction

was fantastic and was a side

of leadership that I had not considered before!

Julie-Ann Moreland, Participant

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I loved the networking section.

The panel speakers were really

inspiring. Really appreciated the

questions to ask ourselves when

making a change.

Alice Davis, Participant

SBRI Healthcare is experienced in

supporting SMEs to avoid pitfalls

and build a compelling value

proposition for their innovation.

They provided excellent key

webinars to support the

entrepreneurial journey.

Nathan Moore, Founder and Director, Primum

Digital Health Ltd

Unlocking barriers: Workshops, webinar series and Investment Readiness **Programme**

Some activities and workshops are exclusive to applicants at early stage, such as the NICE META Tool. The NICE META Tool provides a rapid, highlevel, payer-perspective assessment of medical technology products in development and helps innovators understand what evidence is needed to make a convincing case to payers and commissioners for their technology. It also provides insights into patient and public involvement and engagement (PPIE) and commercialisation.

Other activities and workshops are relevant to all the funded portfolio. Supported by excellent guest speakers and partnership organisations, the PMO arranged a series of workshops to help unblock barriers (such as regulatory, how to enter the NHS, and exporting) that hamper innovation, peer to peer sessions to facilitate knowledge sharing, and an annual investment readiness training programme culminating in pitch events to angels and early venture capital investors.

PRE COMPETITION

IN COMPETITION

IN PORTFOLIO

IMPACT

Launch webinars, drop-in sessions and clinics

NICE Metatool

Webinar support on: what a good application looks like, Patient and Public involvement, commercialisation, IP, finance, impact, tailored sessions, etc.

Investment readiness programme, showcase event, webinar series on regulatory landscape, roadmap to the NHS, health economics, DTAC, peer to peer, women in health-tech: leadership programme

Case studies, annual survey and annual report

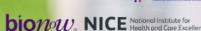












The AHSN Network



The [Investment Readiness Programme] initiative was delivered by experts and entrepreneurs with real-life experience in raising investment and introduced us to several VC firms. The benefits of the training programme extend way beyond guidance on best practices for preparation and delivery of an investment pitch. Through real examples, the programme helped us understand the 'investors' view' of technology businesses and provided a fresh way of thinking about our commercial plans and objectives.

Andrew Woodhead, Director, Business Development

The Empowering Women in HealthTech Innovation Leadership Programme had two clear learning objectives, to enhance women's entrepreneurial capabilities as leaders, and to develop future leaders who will empower and drive female inclusion

and representation within the workplace. Over three online sessions, 37 participants gathered to interact with expert guest speakers and each other to help develop their leadership style and skills, whilst forming a powerful network of women leaders.

Empowering Women in HealthTech Innovation Leadership Programme

SBRI Healthcare Independent Strategy Advisory Board (ISAB)

We have assembled a pool of multidisciplinary expertise to advise NHS England on the strategic direction and development of SBRI Healthcare, taking into consideration the remit of the programme and the wider health and social care innovation landscape.

Mike Lewis

Professor of Life Science Innovation

University of Birmingham and Joint Director of SBRI Healthcare and NIHR i4i Programmes

Mike Batle

Deputy Director of Research Programmes

Department of Health and Social Care LinkedIn: /mike-batley-06174b66

Ian Brotherston

Head of Public Sector Innovation Strategy

Innovate UK

LinkedIn: /ianbrotherston

Richard Deed

Associate Director of Industry

Health Innovation Manchester AHSN LinkedIn: /richard-deed-4b945914

Stephen Edgar

Patient and Public Involvement and Engagement representative

Laura Fenner

Patient and Public Involvement and Engagement representative

Nigel Harri

Director of Innovation and Growth, West of England AHSN (now retired - to be replaced by Nuala Foley, Portfolio Lead: Commercial and Partnerships, Kent Surrey and Sussex AHSN)

LinkedIn: /nigel-harris-22033b15 **LinkedIn:** /nuala-foley-58b1822b

Kath Mackay Director of Life Sciences

Bruntwood SciTech
LinkedIn: /drkathmackay

Louise Morpeth Chief Executive Officer

Brain in Hand
LinkedIn:/louise-morpeth

Steve Morris

Royal Academy of Engineering Visiting Professorship

Bangor University

Arjun Sikand

Innovation Director
Surrey Heartlands ICS

LinkedIn: /arjun-sikand-25910013

Mark Wyatt

Investment Director

Mercia Asset Management

LinkedIn: /mark-wyatt-2533b5

Tony Young

Director of Medical Innovation

Anglia Ruskin University and National Clinical Director for Innovation at NHS England

LinkedIn: /drtonyyoung/

In Focus: Generating real-world evidence

Led by the need expressed by innovators to access funding to support the implementation of their products, in 2021 SBRI Healthcare piloted a Phase 3 funding call which was the first of its kind. Phase 3 invites innovations at an advanced stage of development to accelerate their uptake into relevant health or social care settings. Its aim is to facilitate the collection of evidence in real-world settings and build on the value proposition required by commissioners and regulators to make purchases.

There is no shortage of innovation in the NHS and the health sector more widely. The NHS has natural advantages over many other health systems including universal coverage of a diverse population, national standards, and relatively rich health are data. The challenge is how to diffuse innovation as quickly as possible, and have the impact seen in other industries, particularly in reshaping how clinical services are delivered.

Real-world validation of an innovation can accelerate its uptake and bring benefits to both industry, and health are social care by facilitating its adoption and spread. This may be

achieved by providing potential adopting organisations with an understanding of the implementation pathway and assurance of benefit delivery. Alongside this, real-world validation can support industry to generate investment and enhance a product's sales story to enable growth and job creation.

Last year SBRL Healthcare focused funding on helping address two key challenges that are at the core of the NHS;

To help the NHS reset and recover from the COVID-19 pandemic, the greatest disruptive force of the

21st century to date, and establish new ways of working to alleviate the backlog of people waiting for NHS treatment and the pressure the NHS workforce suffer

To improve mental health services, for children and young people, enabling access and support for disadvantaged, marginalised or ethnic minority communities.

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The SBRI Healthcare programme has given us the resources to develop and deploy Dora to solve some of the major operational challenges currently facing providers across the NHS. The credibility and impetus of the programme allows an **SME like Ufonia to accelerate** our impact for the benefit of professionals and patients. Excitingly it has also catalysed external investment as well as interest in adoption at hospitals in Europe, Asia and North America.

Dr Nick de Pennington, CEO, Ufonia



In Focus: Improving care for patients whilst working towards a net zero NHS

Climate change has been declared a global emergency and new strategies have been implemented to tackle the crisis and reduce emissions across all sectors. In healthcare, the UK has established a pioneering position, with the NHS making a bold and ambitious statement as the first healthcare system in the world to commit to the targets of reaching Net zero by 2040 for the NHS Carbon Footprint (for direct emissions), with an ambition for an 80% reduction (compared with a 1990 baseline) by 2028 to 2032. Reaching Net zero by 2045 for the NHS Carbon Footprint Plus (including those the NHS influences), with an ambition for an 80% reduction (compared with a 1990 baseline) by 2036 to 2039.

Innovation plays a critical role to support the Net Zero ambition, particularly with 62% of NHS emissions coming from suppliers. Working with enterprises developing breakthrough technologies, solutions, or approaches to reduce carbon emissions is pivotal to the delivery of sustainable healthcare.

SBRI Healthcare acted as a lever to support the NHS ambitions outlined in the Delivering a Net Zero NHS report

and worked closely with the Greener NHS Programme and the AHSNs to launch its first Delivering a Net Zero NHS funding competition, calling for innovations that improve care for patients while addressing the following challenges; (i) reducing emissions from care miles, (ii) reducing emissions from surgical pathways, (iii) reducing nitrous oxide emissions and (iv) tools to support low-carbon decision making. Awarded entrepreneurs were

supported by the SBRI Healthcare
Programme Management Office and
the NHS Greener Team through a range
of workshops, including Sustainable /
Procurement and Data & Analytics
to help generate a carbon impact
assessment and develop a
sustainable value proposition.

11

Delivering a Net Zero NHS is a key ambition to tackle within the Healthcare system and it was great to see so many diverse innovations applying to the SBRI Healthcare programme to make an impact on carbon emissions and align themselves to the NHS ambitions and more generally, commit to sustainable changes. We've seen some innovative digital tools that will ultimately drive reduction in care miles or that can be used as educational materials to enable greener decision making.

Dr Glenn Wells, former Director of Strategy and Planning at UKRI Medical Research Council, now Chief Partnerships Officer at the MHRA and chair of the SBRI Panel

It was fantastic to see the wide range of organisations engaged with the first Net Zero focused SBRI Healthcare competition. Innovation is key to developing new tools and technologies to deliver a Net Zero NHS and investment will encourage action, reduce the costs of decarbonisation across the sector and improve health and care now and for generations to come.

Nick Watts, Chief Sustainability
Officer, NHS England

In Focus: NHS Cancer Programme pilot

Endoscope-i

endoscope-i

Telescopic referrals to streamline and increase efficiency for managing the Head and Neck 2WW cancer pathway

Open Medical (M) Open Medical

Pathpoint Cancer Initiative - Scaling and evaluating interoperable cloud clinical pathway management solutions to optimise referral, triage and diagnostic workflows



Orion Medtech Ltd C.I.C

Applying a cancer care toolkit for improving time from diagnosis to treatment by adapting existing digital technology and processes

pinpoint

Pinpoint Data Science

Optimising NHS urgent cancer referral pathways with an Al-driven, affordable blood test for triage and prioritisation of symptomatic patients

The Newcastle upon Tyne Hospitals

The Newcastle upon Tyne Hospitals **NHS Foundation Trust and**

Newcastle University

Dissemination of the Newcastle MSI-PLUS assay for Lynch syndrome screening and therapeutic targeting

The Royal Marsden NHS

The Royal Marsden NHS Foundation Trust

Liquid Biopsies for Faster Diagnosis of Pancreatic and Biliary Tract Cancers

The Royal Marsden NHS Foundation Trust

Whole body MRI for Inherited Cancer Early Diagnosis (ICED)

Qure.ai Technologies Limited

Al assisted Chest X-ray triage for improving diagnostic efficiency and early detection of lung cancer

The NHS Long Term Plan (LTP) set the ambitions for cancer; that by 2028, an extra 55,000 people will survive cancer for five years or more, and 75% of people will be diagnosed earlier, at stage one or two. SBRI Healthcare supports the NHS LTP and progress towards its goals on the level of referrals, diagnosis and treatment across cancer pathways. These goals have been impacted by the Covid-19 pandemic, requiring even more urgent and timely action.

NHS England joined forces with SBRI Healthcare to identify and fast-track mature innovations into the NHS to see how they can benefit patients by detecting cancer early and improving the efficiency of diagnostic services, in a real-world setting.

The NHS Cancer Programme Innovation Open Call marks the beginning of a series of multi-million pound funding opportunities, in support of the

In 2021, the NHS Cancer Programme at LTP cancer ambitions. The support of Cancer Alliances and The AHSN Network will play a key role in enabling spread and adoption.

> The competition attracted 51 applications from the open market and in early 2022, eight winners were announced.

There has never been a more exciting and inspiring time to work in cancer research

and treatment. The NHS is an incredible

organisation, providing joined-up healthcare

to an entire nation through a single system.

This affords us with a unique opportunity to

partner with experts in academia and industry,

and bring the latest innovations in early cancer

diagnosis and intervention to patients quicker.

Professor Richard Gilbertson, Chair of the NHS Innovation External

Advisory Board

The companies and hospitals pioneering these innovative ideas are leading the way, and will help us to diagnose cancer earlier when it is easier to treat – potentially saving thousands of lives. Today's development funding, which is part of our open call initiative, is just one of many opportunities to attract and fast-track high quality innovations into the NHS, supporting the ambitions of the NHS Long Term Plan and vitally, improving care for our patients

Professor Peter Johnson, Clinical Director of the NHS Cancer Programme

proposals submitted

projects

Invested

involved

sites participating

patients potentially

Academic Health Science Networks' (AHSNs) support

The 15 regional Academic Health Science Networks (AHSNs) that make up the national AHSN Network have supported SBRI Healthcare since the programme's inception in 2009.

AHSNs work with health and care businesses and individual innovators to help realise the potential of their ideas. Their unique role is to bring the NHS, care, research and industry together, so that more people can benefit from the very best innovative solutions, and to create economic growth. The AHSN Network exists to transform the way the NHS identifies, adopts, and spreads innovation. They operate simultaneously as a single national network, and as 15 locally embedded and integrated organisations with strong partnerships at Place and

Integrated Care System (ICS) level.
AHSNs support the rapid 'importing and exporting' of innovations, and have created a national pipeline of more than 1,200 proven technologies that can be matched to local health and care needs.

The AHSNs collaborate with the SBRI Healthcare Programme Management Office to design competitions to attract innovations that respond to specific health and social care needs. Their health innovation teams engage industry to apply; contribute to the

selection process; and they continue their relationship with successful companies to ensure maximum level of traction within the NHS and social care system.

The AHSNs have provided comprehensive support to SBRI Healthcare competitions as well as assisting with webinars for innovators and participating in the SBRI Healthcare Independent Strategy Advisory Board.

The Oxford AHSN has been a key driver of our patient and public involvement and engagement work led by Dr Sian Rees who is the Director of Community Involvement & Workforce Innovation at the Oxford AHSN. Through this we have been able to work with a diverse group of individuals including seldom heard groups and underrepresented communities, ensuring that patients' concerns and ideas are built into our product so we can be as inclusive as possible.

Dr Nick de Pennington, CEO, Ufonia

We have worked closely with the Eastern AHSN since 2019 who have championed NeutroCheck® and opened opportunities including to present to over 30 medical directors in the region. Our more recent collaboration with Eastern AHSN under our SBRI Urgent Care award, enabled us to hold a workshop with NHS procurement and ICS leads, and subsequently to build a template NHS Trust-perspective business case for NeutroCheck® to facilitate commercial adoption.

Umaima Ahmad, CEO & Co-Founder, 52 North Health



Our partnership with AHSNs has enabled us to conduct real-world evaluation studies by bringing together experts, sharing local data around population health and inequities, establishing partnerships with local services and enabling the study processes.

Manjul Rathee, CEO and Co-founder, BfB Labs

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IMPACT

INPUT

£109m+ 265 Total invested

Products supported

OUTPUT



162 IP granted



936 established



18,810 Sites accessed through trials or sales



1,776 Jobs created /retained

OUTCOME



IMPACT

1 IPO (£15m+ raised)

4 acquisitions





Products Companies with exported sales in the NHS



through sales and trials









Forward look Going forward our commitment is to further leverage the SBRI Healthcare Programme's reputation for developing and scaling innovations at pace into the NHS, the social care system and the wider market. We aspire to unblock the barriers that hamper entrepreneurs' ability to accelerate innovations into clinical practice, ensure the Programme becomes instrumental to achieving NHS England goals as well

WE WILL SUPPORT REAL-WORLD EVIDENCE GENERATION

Evidence-based and cost-effective interventions often fail to be implemented into routine health and social care practices. Generation of evidence to support innovation uptake, adoption and spread is challenging. Gathering high-quality evidence in 'real-world' settings to demonstrate the feasibility and practicalities of implementation is vital to enable rapid and confident adoption and scaling up of high-value technologies that accelerate delivery of patient benefits and healthcare efficiencies. The Programme will continue to further consolidate its support in this space through SBRI Healthcare Phase 3 funding and the **NHS Cancer Programme Innovation** Open Call.

WE ARE COMMITTED TO DRIVING THE NHS AMBITION TO NET ZERO

In 2020, the NHS became the first health system in the world to commit to reaching Net Zero targets. Since 2010, the NHS has reduced its emissions by 30%, thanks to steps taken across the workforce - but more transformation that continues to improve quality of patient care while also reducing carbon emissions is required in every setting. The Programme will continue to invest in developing breakthrough innovations to accelerate action and ensure the best outcomes for patients whilst reducing carbon emissions. By working in close partnership with Greener NHS and The AHSN Network we will launch our second Net Zero competition and we will explore how to best assist innovators to measure the environmental impact of their solutions and the data and tools they have available towards their assessment.

WE WILL HELP IMPROVE DIVERSITY AND INCLUSIVENESS, AND DECREASE HEALTH INEQUALITIES

Whilst life expectancy is growing for some, it has stalled or is falling for others. People in the most deprived areas develop long-term conditions 10 to 15 years earlier than the general population and those with a learning disability or severe mental illness die a decade or more earlier (Dr Neil Churchill, NHS England, 2019). In 2021 NHS England launched the Core20PLUS5 initiative to reduce health inequalities at both the national and system level. The Programme is committed to unleashing innovations that can help deliver equitable healthcare and benefit the most vulnerable groups of society and deprived communities.

as Governmental objectives (such as the

Life Sciences Vision), and continue to create

ecosystem to facilitate innovators' journeys.

synergies across funders and the wider innovation

Meet the Business Entrepreneurs

A spotlight on the SMEs, their innovations, and the impact they're having on patients.









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Unleashing innovations into the NHS for enhanced patient care



Competition: GP of the Future - Self-care

An end-to-end, cost-saving, data-driven, digital solution for people with diabetes and healthcare teams.

10% of the world population has diabetes which can lead to blindness, heart attacks, strokes and amputations. These complications are entirely preventable through good selfmanagement and early medical intervention but cost £2.5 trillion pa globally. Better management of non-communicable diseases, personcentred care focusing on preventative strategies, and digital/data driven solutions, strongly align with the NHS Long Term Plan.

MyWay Digital Health (MWDH)'s flagship digital product, MyWay Diabetes (MWD) (previously

MyDiabetesMyWay (MDMW)) integrates healthcare data - driving record access, personalised, automated advice, home monitoring support and education for people with diabetes. MWD was scaled nationally in Scotland and is now deployed globally. MWD demonstrates significant improvements in metabolic outcomes (HbA1C, cholesterol, blood pressure), reductions in emergency admissions/long term complications, and significant cost savings (ROI of 5:1 with 10 year estimated savings of >£300m if scaled across the UK).

MyWay Clinical (MWC) is a complementary clinician facing disease management system for individual and population management with tailored advice and risk prediction.

MWDH supports equity of access through accessibility best practice, cultures and languages, and easy-toread materials. The team work with local organisations to support low care for vulnerable populations. across the entirety of Scotland and in more than 25% of NHS England regions (Greater Manchester, North East/ North West London, Somerset, also delivers NHS England Type 1 diabetes education nationally through internationally with active projects across the Middle East and Malaysia.

delivery of content tailored to different digital/ health literacy needs, and datadriven risk tools help prioritisation of MDMW and MWD collectively run North West Coast (L&SC/ C&M)). MWDH mytype1diabetes.nhs.uk, and operates



It's a substitute for seeing a diabetic nurse

IMPACT

- » CE marked
- Received additional public funding, including IUK Digital Health Catalyst Award (complete April 2022) (~£1m), Artificial Intelligence in Health and Care Award and NHS England Test Bed (deployment in Greater Manchester)
- Generation of >£ 1m annual revenues from sales to the NHS
- Secured new contracts (NHS England national mytype1diabetes.nhs.uk site,

- and 6 x large regional NHSE contracts; covering around 28% NHSE coverage)
- Reached a large volume of patients through real-world testing and sales (over 1million education site users, ~100,000 patient data access registrants in UK)
- Reached regional adoption
- Exporting in the rest of the world (office in UAE and contracts in the Middle East and Malaysia)
- Demonstrated return on investment (the health service will get back about £5 for every £1 spent)
- NHS Innovation Accelerator and Clinical Entrepreneur Alumni
- Winner in the HealthTech category of the 2021 Digital Leaders Impact
- Listed in the Department for International Trade top 100 healthcare companies for export





SBRI Healthcare Annual Review SBRI Healthcare Annual Review 2020-22



Competition: Children and Young People's Mental Health and Mental Health Inequalities in Children and Young People

Evidence-based, accessible, and data driven digital therapeutic game' to 'Digital Therapeutic intervention (game-based)'.

Half of all mental disorders start by the age of 14, yet up to 70% of children and young people don't get access to timely, appropriate support. The demand for support has been increasing with an 81% surge in referrals since the pandemic highlighting the challenges to current models of support, and leaving services under tremendous pressure. Exposure therapy is the most effective element of CBT (recommended by NICE) but provision is sporadic as children and young people often don't meet treatment thresholds or they face long waiting times.

Lumi Nova: Tales of Courage is the only CE marked Digital Therapeutic intervention (game-based) providing instant access to therapeutic best practice in the form of psychoeeducation and exposure therapy, empowering children and young people - as young as 7 - to self-manage their anxiety, preventing escalation & long term disorders.

Lumi Nova has been designed to be accessible. It can significantly improve

access to therapy for children and young people from the poorest and rural households by providing instant, safe, remote and flexible access without constant clinical supervision. It doesn't need constant internet connection and is available for free for end users.

Lumi Nova is non-stigmatising and has representation of different gender identities, faiths and disabilities in the user's environment.

It delivers value at every point in the care pathway and provides a return on investment of up to 8.5x, leading to potential overall savings to the NHS of £55m per annum.



IMPACT

- » Launched in Sep 2020
- Currently used by NHS and social care organisations and voluntary sector frontline providers (rolledout across 18 regions in the UK)at multiple points across carepathways
- » CE marked, regulated by the UK's MHRA as a safe-to-use Class 1a medical device and registered with Therapeutic Goods Australia (TGA) clearance received, exclusion applied
- NHS DTAC compliant, DSP Toolkit published
- » Partnerships with the University of Reading, MindTech, Greater Manchester Mental Health NHS Trust, Norfolk and Suffolk NHS Foundation Trust, University of Manchester, BAFTA, Eastern AHSN
- Currently running two implementation studies focused on tackling health inequalities experienced by children and families from poor socio-economic backgrounds and

- those living in rural areas
- Awards:
 National Children & Young
 People's Awards 2022 and
 2021 Finalist
 Health Tech Digital Awards 2020
 UK App of the Year 2020
 Children;s App of the Year 2020
 LaingBuisson Primary Care &
 Diagnostics

Awards - 2020



SBRI Healthcare Annual Review 2020-22

Stimulating new models of care to help the most vulnerable population categories



Competition: NHS Reset and Recovery & New Ways of Working

Increasing clinical capacity through Al-driven voice automation of routine clinical appointments.

Ufonia's technology, Dora, is the first UKCA marked Artificial Intelligencedriven automated clinical assistant that can conduct routine clinical conversations via telephone.

Dora is an automated telephone voice assistant that can conduct a natural language conversation with patients. Dora is delivered to patients by a regular telephone call and no high technology is needed for the patient to use the system.

An ageing population and increased expectation are putting increasing demand on healthcare services. Many staff are facing a crisis of burnout and are under pressure to deliver high-

Q Ufonia

volume workloads, driving increasing costs for providers.

The COVID-19 pandemic has further exacerbated the demand and capacity mismatch due to the widespread cancellation of elective care creating a backlog of clinical work.

Preliminary work suggests Dora is able to reduce the clinical burden on staff by reducing the number of patients who require follow up with a clinician. It allows clinicians to be redeployed to higher value activities in the care pathway, where their skills, insight and empathy can be best utilised.

In addition, where the service has been implemented, providing follow up over the telephone reduced the risk of COVID-19 transmission from face-toface reviews, and freed up hospital space which was at a premium due to

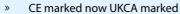
social distancing measures and lack of capacity for increasing patient demand.

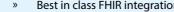
Dora can also support the NHS's Net Zero ambition. Preliminary carbon footprint modelling shows that Ufonia's technology may be able to reduce the carbon footprint of Head & Neck cancer consultations by 120x - the reduction in face-to-face consultations could save up to 78 tonnes of CO2 equivalent (CO2e) annually in one region, and up to 10,000 tonnes of CO2e if rolled out across the UK.

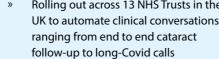
IMPACT

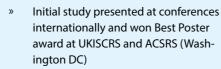
- Best in class FHIR integration
- Rolling out across 13 NHS Trusts in the UK to automate clinical conversations ranging from end to end cataract follow-up to long-Covid calls
- Partnered with the Centre for Sustainable Healthcare and working on maximising Ufonia's impact on the triple bottom line to meet Net Zero
- The product is accessible in the UK as well as globally - scaling with inbound demand into North America, and with interest in adoption from hospitals

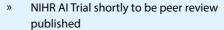












targets

across Europe and Asia





Since we have had patient feedback we've realised that Dora is delivering the standard of care that we think is appropriate for our patients. It was fantastic when we came into contact with Ufonia. I cannot see how we will be able to look after these patients without innovations such as this.

> Miss Sarah Maling, Consultant Ophthalmologist, Buckinghamshire Healthcare NHS Trust





Competition: Mental Health Inequalities in Children and Young People

The Tellmi app addresses health inequalities and is transforming mental health outcomes for young people.

In England one in six of 10 million young people aged 11-25 has a serious mental health disorder (MHCYP, 2020). With 1.8 million young people needing support, scalable mental health solutions are urgently needed.

Tellmi is a multi-award winning, anonymous, pre-moderated, peer support app which has been used by 77,700 young people aged 11-25. Its 100% pre-moderated peer support model is safe, scalable and effective. In 2021, an independent evaluation by University College London found statistically significant evidence that using Tellmi improved mental health in young people.

Anonymity makes it easier to seek support and Tellmi is already reaching young people who are underrepresented in mental health support; Boys (35%), Asian (11%), Black (3%), Mixed race (7%), In-care (2%), Fostercare (1%), ADHD (19%), autism (16%), learning difficulties (11%), LGBT (59%) (Tellmi survey, 2021).

IMPACT

- » 77,700 registered users
- » £1.2m from investors raised
- » Data shows that young people in Greenwich have already interacted with the app over 1000 times
- » Completed a successful pilot with Somerset CCG which enabled 542 young people in the county to access mental health support
- » Independent evaluation by the Evidence Based Practice Unit at UCL on 876 young people found statistically significant evidence of improved mental health; young people using the Tellmi app felt better and less alone, and had increased confidence and connectedness which led to better mental health self management
- Winner of 'Digital Mental Health Solution of the Year' at the 2022 Health Tech News Awards

Working with Tellmi has been a real eye opener in terms of the services available to children and young people across London. Tellmi has shown great initiative in its work towards supporting our young people who face so many challenges and the drive to continue to help, support and guide is very inspiring.

Rachel Burrell, CYP Commissioning Manager for South Fast London





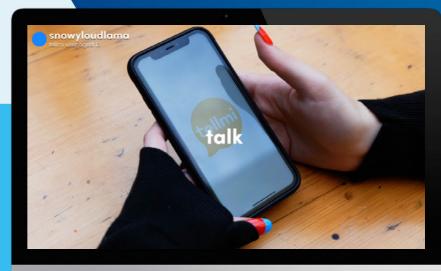
Can I just say how glad I am to have found this awesome community that has made me feel better about myself and reminded me that I'm not the only one experiencing the things that I'm experiencing. Thank you all for this kind and caring community!

Tellmi user, aged 16, Greenwich



SBRI Healthcare funding has enabled us to offer support to 77,700 young people under 24 in Greenwich; 50% are from Black and minority ethnic backgrounds and 50% live in low income households. Engaging all communities is fundamental to the success of any early intervention solution. SBRI Healthcare funding has enabled us to market through education, healthcare and community venue partners as well as billboard advertising to reach underserved communities

Dr Kerstyn Comley, Co-founder and Co-CEO, Tellm





I didn't particularly want to die, I just didn't want to live like I was. I was talking to absolutely nobody. I didn't have anybody. Help always felt just out of my reach. I was barely sleeping, barely eating, I was self-harming. I had nobody to turn to. Then Tellmi came along. Those people made it feel like suicide wasn't the only way out. You could be yourself without having anyone else judge who you are and what you look like and what you've done. That's something so rare. A community that is loving and caring towards one another. Tellmi is honestly such a safe haven for people with those kind of mental health issues. Without Tellmi I'm not sure I'd be here.

Tellmi user, aged 16, Greenwich



Supporting companies' growth and wealth creation in the UK and overseas





Competition 17: Urgent and Emergency Care

CrossCover enables experts to deploy best practice pathways into the core workflow of all NHS staff.

It is challenging to translate consistency of best practice into the everyday patient workflow of NHS frontline staff. CrossCover is cloudbased and provides a complete clinical pathway development and operations platform. It supports NHS leaders to design, build, test, deploy and monitor optimal clinical decision support pathways across an integrated primary and secondary care system.

Patients get the right decisions made for them first time with minimal waste of NHS resources. The platform has

been deployed across 8 NHS Trusts, supporting the optimal pathways of care for over 80,000 NHS patients. An optimised pathway is evidenced to save

the NHS £100 per patient and improve

the quality of patient care.

The initial module, OrthoPathway, which covers Musculoskeletal problems has optimised workflows mapped out for 21% of all NHS activities, and optimised workflows for 20 other specialties are being developed. OrthoPathway brings best practice use up form 27% in usual care to 96%, reduced consultation times by 40%, reduces the chance of an unnecessary referral or investigation by 80% and reduces the carbon cost by 3kg CO2 per patient.

IMPACT

- Reached 80,000 patients through real-world testing and sales
- Net Zero friendly Saved over 600,000
- Potential to save the NHS £2 billion
- and 24 minor injury units
- - a saving of £100 per patient. The average Trust will use the platform
 - a reduction of fracture clinics by up to 50% and elective outpatient
- Nathan Moore (CEO) is a NHS Clinical **Entrepreneur Programme alumnus**

- care miles to date
- Purchased by 8 secondary care sites
- Health economic assessment sug
 - on 150 patients per day
 - appointments by up to 70%
- Available for Procurement on the G-Cloud 13 Framework

The support from SBRI Healthcare has helped to grow our team by 300% over one year and accelerated our growth as a company by around 5 years. We have sped up our regulatory compliance enabling us to build and deliver more complex features. We are on track to save the NHS £2 billion a year in the next 3 years.



Competition 17: Urgent and Emergency Care

The Neutrocheck® device and digital platform improves safety and quality of life for patients undergoing chemotherapy.

Neutropenic sepsis (NS) is a lifethreatening medical emergency occurring in chemotherapy patients whose immune systems are suppressed by treatment. It kills three people in England and Wales every day. Whenever chemotherapy patients feel unwell, NICE guidance requires immediate A&E attendance, where patients receive intravenous antibiotics, undergo full blood testing, and take up a hospital bed, all in case they have NS.

This pathway has two problems: (i) ~1 in 2 patients turn out never to have been at risk of NS, and did not necessarily need to go into A&E, and (ii) 1 in 2 patients do not receive antibiotics within the acceptable timeline (1-hour),

risking lives.

Neutrocheck® is a low-cost, portable medical device and digital platform which enables patients to carry out a finger-prick blood test at home, to provide information on their risk of NS through measurement of neutrophils and CRP (a sepsis marker). Built with the support of Macmillan Cancer Support and the UK Sepsis Trust, the Neutrocheck® result enables doctors to more safely and effectively triage patients.

Each year in the UK, this solution could prevent up to 50,000 A&E visits, saving ~2.4m kgs CO2eg by halving delays in antibiotic provision, save up to 400 lives, and save the NHS tens of millions of pounds.

It is expected that Neutrocheck® will be available to patients through the NHS from 2024.



By enabling us to complete significant R&D, SBRI Healthcare's support has been instrumental and has unlocked opportunities including private investment. We are now much closer to bringing Neutrocheck® into the hands of patients so we can make their healthcare journeys safer and better.

Umaima Ahmad, CEO & Co-Founder, 52North



We're proud to be working closely with 52North and supporting Neutrocheck: a product we believe could make a transformative improvement to patient outcomes and experience of care. As the first NHS-anchored venture fund, we're pleased to be supporting the company alongside SBRI Healthcare.

Daniel Dickens, KHP Ventures (Investor in 52North)



IMPACT

- » Raised £1 million of private funding
- » Created 3 new jobs and expanded 5 existing jobs
- » Involved 40 patients in testing and evaluations
- Involved 40 healthcare professionals in the development of a new clinical



Umaima Ahmad and Dr Ama Frimpong, 52North

Umaima, Chief Executive Officer and Co-founder of 52North has been selected as one of Management Today's 35 Under 35, celebrating women in business. Dr Ama Frimpong Head of Product Development won the IET. Young Woman Engineer of the Year Awards 2022 and was selected as one of the WES Top 50 Women in Engineering 2022 in the Inventors and Innovators category.



In conversation with Kooth (previously XenZone)



Kooth provides a welcoming space for effective, personalised digital mental health care, accessible to all.

Tim Barker, CEO at Kooth, joined the company in 2020 after a 30 year track record helping build and grow startups and scaleups. "What deeply impressed me when I first came across Kooth (as it still does today!), was that Kooth has been a catalyst and advocate for digital mental health support for over 20 years. The breadth and depth of expertise within the organisation is incredible." His job now is to take this expertise to help Kooth deliver on its vision to make effective, personalised, mental health support accessible to everyone.

Tell us about Kooth Plc. What was the inspiration for the business?

Kooth was founded way back in 2001 with the simple vision that you could use the internet to transform mental health care in 3 ways. Firstly, to make support accessible to everyone.

Secondly, to tackle the stigma in seeking help by making Kooth an anonymous service, and thirdly, to empower people in their wellbeing journey by giving them choice and autonomy over what support they want, on their own terms.

What do you believe gives Kooth Plc an edge over its competitors?

Providing a safe, effective service at scale is not easy. We've established Kooth as a trusted, safe service that operates at nationwide scale. In

Competition: Children and Young People's Mental Health

addition, the volumes of data we've acquired on our journey give our commissioners unique insights into the changing trends and mental health issues within their local population, something which is becoming increasingly valuable given the stresses and strains on the NHS.

What has been the most difficult or challenging part of growing your business?

The hardest part has undoubtedly been establishing digital as a legitimate channel for mental health support. This alone took the first decade of Kooth's existence. Today, there's no debate about it, especially when supporting Gen Z/Millennials who were 'born digital'.

How has SBRI Healthcare supported your business?

We received an SBRI Healthcare grant award in 2019 to develop and evaluate our peer support programme. We were able to scale up our activities section of peer support, and increase the value of what we provide. We also completed our first full scale independent mental health and economic outcomes study with the London School of Economics Care Policy and Evaluation Centre. This has also led to a health economic benefit study of Kooth by York Health Economics Consortium that is able to demonstrate the cost savings Kooth provides the health system. All this work has helped us increase the recognised importance of peer support for mental health in NHS commissioning.



In 2020 Kooth Plc became the first digital health services company to float on the London Stock Exchange. Tell us about your journey and the key lessons you learnt about setting up and scaling a business.

The rationale for floating on the London Stock Exchange was to raise capital to invest in the long term growth of Kooth in the UK and overseas. Scaling a business during the 'time of COVID' has bought its own challenges: building and maintaining the culture in a fast growing, remote organisation is much harder. Ensuring effective communications (both top down, and across departments) is more challenging. One of the first things we did in response is to purposefully define our values, communications approaches, and key company-wide missions to align everyone across the organisation as we grow.

What advice would you give to an entrepreneur just starting out about how to grow their venture?

One of the things that worries me when I look at entrepreneurs is the growing mindset of raising as much capital as you can and growing as fast as you can (at all costs), before you exit/flip the business to someone. Having gone through the VC to exit journey several times myself, my advice is to "go slow to go fast." You have to love the journey, don't focus on the destination. Consider your entrepreneurial journey as a decadelong adventure. You have to enjoy the

11

I was able to read the stories of others and realise that there are so many people who are also struggling and that there is a community of people ready to help.

Response from a young person, taken from the the LSE evaluation study

problem you are working on so much that you are willing to wake up every day for a decade to focus on solving it. Raising capital too early brings its own problems. It's for this reason that I was so impressed with Kooth. They spent 15 years bootstrapping the business and building incredible depth of understanding in what they do before raising capital.

How does your technology contribute to tackling health inequalities and ensuring more equitable access to care?

One of the incredible advantages we have at Kooth is we can provide equity of access through digital to a whole population. In comparison, traditional 'place based' services cannot reach everyone economically. In addition, as an anonymous service, we help tackle stigma for individuals that may be less likely to use traditional mental health services.

What does the future hold for Kooth?

For us, the opportunity is to continue to expand Kooth to deliver a personalised, welcoming service to reach the 1-in-5 of the population that need mental health support every year. To get there, we see the huge potential to apply Al to the vast data lake that we've built over the last decade to personalise Kooth to an individual's needs and help them get the most appropriate support, fast. The future for Kooth looks more like Netflix, not a chatbot counsellor!

IMPACT

- » Chosen by 90% of commissioners in England (incl. 32 London boroughs)
- » Reach in Wales and Scotland
- » 215,000 user access in 2021
- » Released new products for adult and corporate support
- » London IPO in 2020 (initial market cap £66m), raising £26m
- Expanding to the US market
- » Winner of the Tech for Good Award in the 2021 UK Tech Awards



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Working with partners like Kooth is critical to making our services accessible, and allows us to provide support sooner and more flexibly - which is exactly what children, young people and their families have told us they need. Our North West London partnership has commissioned Kooth to offer a service that is integrated within our clinical teams and designed with children and young people themselves.

Tom Johnson, Programme Manager, Central and North West London NHS Foundation Trust

SBRI Healthcare Annual Review 2020-22

Driving efficiencies improvement in the NHS



Competition: NHS Reset and Recovery & New Ways of Working

Digitising and improving theatre communication and processes. Translating efficiency improvements into fewer cancellations and improved theatre capacity to support elective recovery.

MediShout's innovation transforms hospitals into digitally smart environments, saving time for staff and improving operational efficiency. It uses digital technology to help reduce elective waiting lists and tackle the two main bottlenecks that cause delays and cancellations in theatres; kit availability, and wasted theatre time from poor communication.

Theatre Communication Tool - The MediShout app coordinates workflow and communication between ward and theatre staff enabling faster start times, fewer delays and reduced downtime between cases.

Equipment Availability Platform

- The platform ensures hospitals have the right kit at the right time, preventing delays and cancelled operations. It combines data from elective scheduling lists and uses Al and Smart-prioritisation to predict trauma load. This data is passed to the equipment management teams and sterile services.

IMPACT

- » Sites: Used in 4 hospitals Broomfield, Basildon, Southend, Braintree (MSE
- MediShout is part of Microsoft's AI for Social Impact 2021
- Ash Kalraiya (CEO) is an alumnus of the NHS Innovation Accelerator
- Raised a £1 million seed round, led by **Episode 1 Ventures**
- Partnered with Mid and South Essex NHS Trust Orthopaedic theatres across four hospital sites to co-design the solution with end-users



11

Since we have started using MediShout to log our Estates, Equipment and ICT issues we have had a much more robust oversight of these issues affecting our service delivery and are able to easily identify outstanding tasks and chase with the relevant service teams.

lan, Paediatric Ed Matron

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