

Digital Health Accelerators

Meet the cohort

2018-19

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Introduction



Mike Hannay
Managing Director East Midlands AHSN
and Chair of the AHSN Network

I am delighted that five digital health accelerators are commencing this year across the country to speed up the adoption of technology in healthcare, relieving pressure on services and empowering patients.

We welcome the new cohorts of digital health companies in the DigitalHealth.London Accelerator, and the digital health accelerators in the East Midlands Academic Health Science Network (AHSN), Kent Surrey Sussex AHSN, Health Innovation Manchester and South West AHSN.

The DigitalHealth.London Accelerator, now entering its third year, is a partnership between London’s three AHSNs (Health Innovation Network, Imperial College Health Partners, UCLPartners), MedCity, and CW+. Newly launching are four AHSN digital health accelerators which, combined with the DigitalHealth.London Accelerator, form a family of programmes to support innovators across the country.

The AHSNs spread innovation at pace and scale – improving health and generating economic growth. A major government initiative, the Innovation Exchanges, build on AHSNs’ unique cross-sector connections to identify common challenges and quickly bring people and organisations together to develop, test and spread solutions. The accelerators are one mechanism to support digital innovations in the wider context of the Innovation Exchanges.

The healthcare system faces significant challenges and there are examples of excellent innovations across the country

that are improving patient care and making clinicians’ lives easier. To provide a sustainable future for the NHS we must take advantage of digital innovation that keep us all healthier, help us manage our own health, and access services more easily when we need them.

However, for NHS organisations and commissioners, it can be hard to know which options best suit the challenges they face and hard to know which are credible. The accelerators help healthcare providers and commissioners connect with some fantastic innovations: technologies that predict pressures in the system or patient deterioration, platforms to help clinicians free-up time for care, and a whole host of apps that help put the power into patients’ hands, but there is more we can do.

High potential companies are selected by local NHS staff with support from technical and commercial experts. The accelerators make it easier, simpler, and faster to deliver digitally enabled care; working with early adopters who have big aspirations to help the existing healthcare system face up to its challenges.

I’m excited to see the 34 companies chosen for this year’s programme. Every innovation on the list has the potential to help us transform our healthcare and I look forward to following the accelerators’ progress.

Foreword



Juliet Bauer
Chief Digital Officer
NHS England

As we develop our long term plan, the NHS continues to support the spread of cutting edge innovation, from championing specific innovations, to supporting frontline clinicians to develop their services.

The health and care system is facing increasing demands, which are growing in complexity as the population changes and more people are living with long-term conditions like diabetes.

In the face of these challenges, digital technology offers a fresh opportunity and new ways to help the health system improve care and efficiency whilst empowering patients with tools to help them manage their own care.

We can – and will – provide better quality care, more joined-up and efficient services, and greater convenience for both staff and patients if we embrace new technologies.

These are transformation tools that help us take more control. We can use clinical data intelligently to help detect and prevent illness, rather than react. We have apps that can help patients manage their own health. We are adopting technologies we take for granted in other areas of our lives to make healthcare delivery and management easier.

Despite the promised benefits of new technology, it can be difficult to find the time and headspace to seek and test new digital solutions to particular challenges.

That's why routes of support like the DigitalHealth.London Accelerator are so important. The Accelerator works in collaboration with NHS organisations to identify challenge areas, and then support their resolution through digital tools. It is there to make it easier, simpler, and faster to deliver the right care at the right time. It works with digital health innovators with big aspirations and the skills to deliver.

So I'm excited to see the names of the companies that the programme will work with this year. Every innovation on the list has the potential to help the NHS deliver better tech-enabled care, a more efficient system, and improve the service we can offer to our patients.

This NHS initiative has already provided London patients with access to a range of exciting digital innovations. I look forward to seeing even more patients benefit as more companies are supported to bring their innovations into the NHS.

About the AHSN Digital Health Accelerators

We are a family of five digital health accelerators operating out of DigitalHealth.London, East Midlands Academic Health Science Network (AHSN), Kent Surrey and Sussex AHSN, Health Innovation Manchester and South West AHSN adding to the suite of opportunities open to the NHS in the AHSN Network.

We add to the myriad of excellent programmes of work already in existence at each of the AHSNs and build upon the DigitalHealth.London Accelerator model.

We collaborate to provide tailored support to small and medium-sized companies. Each accelerator is designed to meet specific needs within their local health and care footprint. We harness economies of scale through shared events, that support similar needs; shared learning, on navigating the complex NHS landscape; and shared operations, with standards that ensure the best companies are connected with decision makers.

What sets us apart is our team of navigators with a wealth of experience across the NHS as clinicians and managers; the medical industry, consulting, and engineering. They act as the translators of value and need, providing intense support to companies over a year. Each navigator works with companies that have demonstrated significant potential to improve delivery of care and empower patients to manage their health. They help NHS organisations to understand, connect with and maximise the potential of digital solutions to some of the challenges they are facing.

This year, five accelerator programmes, in seven AHSNs are supporting 34 companies, helping founders to understand and navigate the complex healthcare system, and scale the adoption of their solution.



I am really pleased to hear that this pioneering programme that was developed by the London AHSNs, working as DigitalHealth.London, is now being spread nationally. The support of the AHSNs through this programme will help more high-potential businesses develop and help the NHS access better innovations."



Ian Dodge
National Director Strategy and Innovation
NHS England

The story so far



Meet the companies

East Midlands AHSN

CliniTouch Vie (Spirit Digital)

@SpiritDigitalUK
www.spirit-healthcare.co.uk

CliniTouch Vie stops people going into hospital. It is a locked-down tablet with direct messaging, video support, and 3G integration for intensive monitoring, education and empowerment. Dynamic care plans and evidence-based algorithms enable automatic triage for healthcare teams. Fast, simple and quick to implement for the most at-risk patients.

NHS problem tackled

More than 15million people in England have at least one long term condition. LTC patients already account for 50% of all GP appointments, 70% of all bed days and around 70% of acute and primary care budgets in England. As the population ages, those numbers are only going to increase. Recent research predicts that, by 2035, 2.5million (17%) people over the age of 65 will have four or more chronic illnesses.

Impact

Our peer-reviewed published evidence consists of:

- 67% reduction in COPD emergency admissions
- 97% felt more confident, knowledgeable and motivated to make the behavioural changes and manage their condition
- 100% felt confident can tell when to get medical care and when they can handle health problems themselves

The results of our latest analysis (writing up for publication) shows a continued delivery of improved clinical outcomes and cost savings:

- 59% reduction in multi-morbidity emergency admissions
- 500.4% Return on TEC investment
- net reduction of 1.94 admissions per participant
- 15% reduction in CAT score



Howz (Intelesant)

@howznewz
www.howz.com

Howz provides reassurance and insights for older people and those with long term conditions or multi-morbidity to help them detect change early and so take action to address issues before they become a crisis. The system provides information via an app or webportal with sharing facilities controlled by the patient.

NHS problem tackled

Forecasts suggest that between 2015 and 2035, multi-morbidity prevalence is estimated to increase, the proportion with 4+ diseases almost doubling. Two-thirds of those with 4+ diseases will have mental ill-health. Multi-morbidity increases the likelihood of hospital admission, length of stay and readmission, raises healthcare costs, reduces quality of life, and increases dependency, polypharmacy and mortality.

Impact

Tested with Stroke survivors in Manchester: patients were happy to access the information on the app and found the system provided reassurance to them and their families.



Meet the companies

Health Innovation Manchester

Brain in Hand

@brain_in_hand
www.braininhand.co.uk

An on demand system, Brain in Hand gives people with autism, mental health conditions or learning difficulty, access to detailed personalised support from their smartphone. Always available, it gives access to reminders, notes, coping strategies and a team of trained professionals to give help when and where it's needed.

braininhand
personal technology for independent living

NHS problem tackled

The national prevalence estimate for Autism Spectrum Disorder is 1% of the population, c.700,000 people – not all of whom will have a diagnosis or be in receipt of support from health or social care. Co-morbidity with anxiety is high (around 70%) and around one-third of people with autism also experience severe mental health difficulties. There are around 350,000 admissions to hospital each year for acquired brain injury which include head injury, stroke and other causes. The prevalence of generalised anxiety disorder is estimated to be 5.9% in England, which would equate to around 3million adults in the UK. The Improving Access to Psychological Therapies (IAPT) standard for access to therapy for anxiety disorders is 15%, leaving most people without access to help. Technology is chronically underutilised within. With a target to reach 25% of all eligible people, IAPT could benefit significantly from embracing the potential of technology.

Impact

A recent study of one council adult social care team showed 60% of users felt Brain in Hand had definitely helped them to become more independent, with the remaining 40% feeling that maybe Brain in Hand had helped with this. In addition they had saved an average of £6,600 per year per user, within year one.

Meet the companies

Health Innovation Manchester

Malinko (Liquid Bronze)

@malinkoapp
www.malinkoapp.com

Malinko is a clinically safe, clinically aware, secure scheduling system for managing community services and its distributed workforce. It automates the caseload scheduling process, ensuring visits are optimally appointed. Live data and location information are collected from nurses via an app, with lone worker protection. It is integrated with GP systems: System One and EMIS.

malinko

NHS problem tackled

Malinko was commissioned after analysis identified that the Malinko system could be adapted and developed to enable Salford Royal NHS FT free up clinical contact time and remove unwarranted variation within community nursing. The analysis identified five problems Salford Royal NHS FT had with managing the service and distributed workforce.

- 1: Caseload allocation and visit booking was manual, convoluted and labour intensive with multiple points of failure.
- 2: No accurate real time view of capacity and demand.
- 3: No accurate real time view to show where staff are in the field.
- 4: No live accurate visit status information to manage the service day by day.
- 5: Incredibly difficult to align and plan staffing levels to meet patient needs.

Impact

Initial pilot at ACE CIC demonstrated that there were significant reductions in pressure ulcer incidents from 128 (Jan to March 17) to 58 (April to June 17) and Insulin incidents from 7 to 3 in the respective three months periods as recorded on the Datix system. Salford Royal pilot in 1 locality measured benefits:

- Travel time reduction: Total saving per year = 433.33 hours
- Reduction in mileage: Total saving per year = 1050.6 hours
- Reduction in the mileage claim reclaim process: Total saving per year = 115.58 hours

Healthy.io

@Healthyio1
www.healthy.io

Healthy.io is a med-tech company with a mission to improve healthcare outcomes by turning the smartphone into a regulatory approved clinical device. Its first product line digitises and decentralises urinalysis, increasing adherence to clinical efforts, empowering the patient to get involved in their health and improving patient experience.

Healthy.io

NHS problem tackled

42m urine tests a year are undertaken in the NHS to screen for a wide range of conditions. Currently patients collect a sample at home and bring it to the clinic or provide a sample in the clinic where it is either tested on site or sent to a laboratory. This is inefficient and inconvenient for the patient and healthcare provider. Digitising and decentralising urinalysis presents opportunity for improvement in patient experience, clinical quality and cost efficiency. Potential areas for improvement include screening for pre-eclampsia, chronic kidney disease and in urgent and emergency care.

Impact

- 98% usability success and >90% favourability in a Johns Hopkins prenatal study
- Increased adherence for albumin testing in at risk population in a Geisinger Health and National Kidney Foundation rollout in the USA
- Successfully completed FDA clinical trials (CE and FDA approval)

Safe Steps (Red Ninja)

@RedNinjaStudios
www.redninja.co.uk/design-technology-work/safe-steps

Safe Steps is an app that helps health and social care professionals deliver standardised and effective falls risk management. It reduces the risk of falls by assessing and tracking lifestyle and risk factors of care home residents, creating a personalised action plan for care homes to follow.

SAFE STEPS
PREVENTING FALLS • IMPROVING LIVES

NHS problem tackled

6 older people fall over every single minute in the UK. With 11.6m people aged over 65, and 16,500 care homes, this leads to a £2.3bn cost burden on the NHS via hospital admissions, treatment, rehabilitation and follow-on care. Approximately 28-35% of people aged 65 or over fall each year increasing to 32-42% for those over 70 years of age. Despite the drive for improvement, falls remain an area of significant impact on local acute and community services. Incidences of falls in nursing homes is 2-3 times greater than in the community and 10-25% of institutional falls result in fracture, laceration or need for hospital care. More so, 40% experienced recurrent falls.

Impact

Research from NICE and Cochrane UK have shown that effective risk assessment followed by appropriate interventions for falls prevention can reduce the rate of falls by 24%. With the current cost to the NHS totalling £2.3bn per annum, then Safe Steps has the potential to save over £575m a year if used by all care homes across the UK.

Meet the companies

Kent Surrey Sussex AHSN

Hospify

@hospifyapp
www.hospify.com

Hospify is a compliant, secure mobile messaging service for healthcare professionals & patients. It provides the simplicity and convenience of consumer messaging solutions while ensuring that all communication stays within UK & EU legislative guidelines for patient confidentiality and data protection.

NHS problem tackled

43% of NHS staff admit to using at least one consumer instant app for work purposes, with 14% using two or more. The most popular is WhatsApp, which is used by 29% of staff, despite clear advice from NHS England on the subject. According to a recent CommonTime report, the usage of these apps has become so culturally engrained, that over 30% of NHS staff believe patient care would suffer if HCPs did not have access to them. These apps, however, are not data compliant for use in healthcare, and potential fines for using them could total up to £5.4bn (4% of the global annual turnover of the NHS) now that GDPR has entered UK Data Protection Law.

Impact

According to a focus group run at Poole Hospital NHS Trust in Dorset, Hospify could save hospital staff an average of 15 minutes per patient per day in time saved. Hospify is currently being used by staff in nearly 50 different hospitals around the UK.



MSKNote

@MSKnote
www.msknote.com

MSKnote Ltd. provides digital solutions to health services that treat musculoskeletal patients. 'MSK assist' is their new solution that allows clinicians to effortlessly provide their patients with the information that was discussed in their appointment along with a range of supportive tools that encourage behaviour change and self management.

NHS problem tackled

In the UK, one third of all health related appointments are MSK in origin which equates to 125million MSK related GP and hospital appointments each year at the cost of approximately £5billion to the NHS. Large parts of musculoskeletal consultations are spent educating patients about their problems, discussing treatment plans and making attempts to motivate patients to self-manage. However, research has proven that 40-80% of the information discussed by healthcare practitioners with their patients is forgotten immediately.

Impact

A review by an independent health economist has confirmed our belief that MSK assist has the potential to incur significant cost savings for the NHS. Their report concluded that there is an assumed consequential benefit in terms of reduced NHS resource use that should yield substantial savings. Through looking at two different evaluation approaches, their report stated that they can make a conservative estimate that savings in the range £35 – £45million are achievable nationally.



Meet the companies

Digital Health Accelerator South West



We know with our work through the Innovation Exchange and our partners in health and social care that digital technologies implemented in the right way can make a significant difference at a system and individual level. The dedication of the people working in frontline care inspires many of our innovators to bring products and services to market that are designed to support health and care. We are excited to be working with our innovators, partners and The AHSN Network on this accelerator this year.



Rupa Chilvers
Programme Manager
Digital Health Accelerator South West

Clinical Design (Clinical Design Technologies)

clinical.design

Clinical Design researches and develops powerful medical devices to solve real-world healthcare challenges. Working collectively with clinicians, we seek to improve patient care, productivity, cost-efficiency and performance through technological innovation and intelligent human centred Design. Our flagship product Urine Testing System™ with a digital analyser will be launching at the end of 2018.



CLINICALDESIGN

NHS problem tackled

Point of care testing is an ever-increasing area of healthcare. Urine testing is a routine part of home, community, primary and acute care with an estimated 1000 tests carried out per month just in an average GP practice. The current test takes one to two minutes, risks spills of a contaminated sample, is subject to human error during analysis and is analogue, requiring manual input into a patient's record. The Urine Testing System™ is enclosed and sealed, automated which reduces the risk of user error, and the results are available for digital upload to the patient's notes immediately. Through more precise analysis we hope to reduce unnecessary lab testing of samples, saving resources, time and money. The use of a digital analyser also gives more time to a healthcare professional to provide holistic patient care.

Impact

- This digital solution could impact on the 40million urine tests carried out annually in the NHS, the majority of which are in primary care.
- The Urine Testing System™ has the potential for freeing up valuable time for patient centred care.
- Digital analysis and patient record integration allow accurate results, reducing transcription errors by up to 20%.
- No chance of contamination and hygienic – one closed sample container from collection right the way through to lab analysis.

Meet the companies

Digital Health Accelerator South West

Health and Care Videos

@hcvlibrary
www.healthandcarevideos.com

Health and Care Innovations have made it easy to share high quality, reliable digital information with your patients, carers and staff, reducing your costs and increasing your capacity. With the largest collection of health and care videos in the UK, developed and signed off by NHS clinicians, we are committed to producing and helping you integrate video into your care pathways to encourage patients to self manage, improve standardised information and support training.



health & care
videos

NHS problem tackled

It is estimated that 13.5million unnecessary appointments could be avoided if the right information is made accessible that helps people stay healthy and independent, avoiding hospital stays and appointments where possible. Replacing costly leaflets and appointments with easy to understand, short video formats keeps up with the growing trend to access information on mobile devices and enables people to watch them wherever they are and whenever they want.

Impact

An example of reducing capacity can be seen through the use of videos to replace pre-diabetes nurse consultations, saving around 10 hours per week in one GP practice, equating to £37.5million saved across England should all practices adopted this process. Similarly, a shoulder rehabilitation programme in one Trust, redesigned to incorporate the use of video as an alternative to face to face post-operative consultations, showed a 30% reduction in follow up appointments. Responding to the direction for NHS and care today, using video at the right time, with multi-channel online and offline access in the home, community, care settings, can generate substantial cost savings and improve the quality of care given.

K2 Medical

@K2MSUK
www.k2ms.com

K2 Medical Systems is an award winning innovator dedicated to maternity care for over 30 years. Working across the UK, Australia and USA with over 500 hospital clients. Our passion is to support maternity services and improve pregnancy outcomes using latest technology for hospital staff, women and babies.



Medical Systems™
Knowledge · Innovation

NHS problem tackled

Giving birth is the largest cause of NHS hospital admissions in England with nearly 700,000 women accessing maternity services per year. The Maternity Transformation Programme states that more can be done to improve outcomes faster including a focus on halving the number of stillbirths, neonatal and maternal deaths and brain injuries by 2025. In addition, clinical negligence claims amount to over £1bn from NHS budgets every year and the National Audit Office predict this figure will rise by 12%, year on year. It is imperative to remember that this is not purely a monetary issue. The results of these outcomes change many lives forever, not just for the affected baby, but family, friends and also local services.

Improvements in maternity services can be facilitated by better communication, collaborative working and improving decision making using advances in digital technologies to better support clinical knowledge, reduce risk and improve decision making.

Impact

Reducing poor birth outcomes using proven technologies alongside national guidelines, implemented across the health system is likely to speed up the annual rate of stillbirth reduction and result in safer and more personalised care for women and babies. Solutions including intelligent algorithms and easy to use intuitive user interfaces throughout the entire pregnancy journey, this could result in around 11,000 hours saved in a single typical organisation which releases valuable clinical staff time for direct care activities.

Meet the companies

Digital Health Accelerator South West

Signum Health

@signumhealth
www.signum-health.com

Signum Health's i-navigator is a social prescribing tool which supports people in need of non-clinical care. With its integrated ecosystem of providers, i-navigator is a social prescribing tool for professionals across all care sectors to easily identify and refer to a range of accredited and user rated services, whilst providing 360 degree feedback.



NHS problem tackled

It has been estimated that around 1 in 5 patients consult their GP for what is primarily a social problem, costing approximately £1.5billion. Many of these could be avoided with the appropriate implementation of social prescribing. The current referral processes to the social intervention providers are manual and cumbersome, reducing efficiency of communication and preventing data synchronisation. This leads to poor coordination of care, particularly after the initial referral. In addition, the system does not currently keep up-to-date with the important changes in service provision locally and the potential for missing new and effective interventions is high. Harnessing today's technologies to provide a capable technical solution to social prescribing is an essential part of a high-quality service.

Impact

The evidence for social prescribing is supportive of its potential to reduce demand on primary and secondary care with an average 28% reduction in demand for GP services following a social prescription referral and social return on investment (SROI) calculations of around £2.30 per £1 invested in the first year. Social intervention providers have evidenced improvements in 80% wellbeing for long term conditions, 11% reduction in elective inpatient stays and more so in the use of A&E services (13-17%).

Ultramed

@ultramed_LTD
www.ultramed.co

Ultramed is an award-winning company that has developed a suite of cloud-hosted pre-procedure assessment programs. Complex algorithms sit behind our flagship product, MyPreOp®, designed to enable patients to enter and share their health information, producing an electronic report which integrates easily into the hospital systems. Ultramed products empower patients, personalise care, and save staff time.

NHS problem tackled

Almost one third of admissions are for a surgical procedure, a number that has increased by 27% over the last decade. In current preoperative assessment practise, data collection takes approximately 30 minutes per patient and is part of an outpatient appointment in the presence of clinical staff. This is a time-consuming and intensive process, usually completed too close to the date of the surgery and with gaps in data collection during preassessment. Ultimately leading to same day cancellation, impacting both patients and hospitals with operating lists being left incomplete.

Impact

The complex algorithms behind the Ultramed programs ensure a standardised and reproducible data collection method. Designed to provide a personalised yet cost-effective solution for quality improvement, saving clinical staffing time and reducing the likelihood of on-day cancellations.

It is estimated that the NHS could save £65M per annum if electronic preoperative assessment was used in 20% of patients, as well as the potential to reduce pre-operative staff time by approximately 1.5M hours. Empowering the patient to enter and share their own data is an essential part of a digital outpatient service. The majority of surgical procedures carried out by the NHS are covered by the Ultramed suite of programs, providing a standardised and intelligent system for supporting preoperative assessment.

Ultramed

Meet the companies

DigitalHealth.London Accelerator



To protect the founding principles of our NHS and ensure the best healthcare for everyone we love, we must innovate. Now more than ever, we have a huge opportunity to revolutionise healthcare through digital technologies. It is a privilege to lead a programme which brings together amazing health tech entrepreneurs and passionate NHS staff to rethink the way we do things and accelerate the pace of change.



Jenny Thomas
DigitalHealth.London and Regional Accelerator,
Programme Director

AccuRx Ltd

@accuRx
www.accurx.com

AccuRx provides a communications solution for primary care, allowing practices to communicate with their patients, collaborate as a team, and coordinate care with other organisations. Chain SMS is used by over 300 practices across England to communicate with their patients, saving time and money. Chain Reception supports receptionists to signpost patients effectively.

NHS problem tackled

As healthcare complexity has increased, primary care has evolved to become a communications business. The system relies on communication between practices and patients, within a practice, and between all organisations involved in the care of an individual. Current IT systems in primary care were not built for team working. Not only is the time spent communicating inefficiently expensive, but the opportunity cost of enabling self-care and improved outcomes is significantly larger.

Impact

- Saves users over 1 hour per week
- Reduces barrier to contacting patients, and engages hard-to-reach patients
- Used to deliver asthma reviews remotely with 60% patient uptake
- Increased smear test uptake by 7%
- Live in over 300 GP practices



Meet the companies

DigitalHealth.London Accelerator

Dr Julian Medical Group Ltd

@drjulianapp
www.dr-julian.com

Dr Julian is an innovative healthcare platform that increases accessibility to mental healthcare. It connects patients securely within days, seven days a week, to vetted mental healthcare professionals. Patients choose the time and type of appointment they want, including options for audio, video, and text, which they can access from anywhere with an internet connection.

NHS problem tackled

Incumbent NHS psychological services (IAPT) are characterised by lengthy waiting-lists and poor recovery rates, and these are subject to considerable geographic variation. Increased demand, reduced in real-term investment in mental health services and increased competition for face-to-face sessions mean that despite making the effort to see a GP, many will not receive face-to-face care, with this currently affecting one in three patients.

Impact

- Two-in-three mental health patients deteriorate, four-in-ten consider self-harm and a quarter contemplate suicide
- Face-to-face IAPT costs the NHS £518million per year. Dr Julian's system costs £45 for low intensity IAPT, £60 for high intensity support and £100 per session for secondary care clinical psychology support
- This represents a potential cost saving for the NHS of £296million at a weighted average, but more realistically £29million if 10% of treatments were undertaken using Dr Julian



Dr Toolbox Ltd

@Dr_Toolbox
dr-toolbox.com

Dr Toolbox is for healthcare professionals that deserve a safe induction. It is the Wikipedia of how to get stuff done in hospitals. We go beyond the static, boring, unsafe, two days of induction by providing crowdsourced information, available through a website and an app.

NHS problem tackled

Doctors and other healthcare professionals frequently rotate jobs between hospitals. This switch is associated with a significant cost to hospitals, in the form of hiring locum staff for the day, as well as a published 6% increase in patient mortality. Put simply, the CQC requirements that doctors are expected to adhere to, are seldom met.

There are 54,000 doctors in training in the UK. Starting a new job in a new hospital is a bewildering and terrifying time, compounded by the fact that junior doctors spend a lot of time finding out how to do common tasks.

Impact

Easily accessible information at local level ensures that staff can be as efficient and effective as possible in carrying out their role. Dr Toolbox is estimated to save 40 minutes per doctor per day. At a typical NHS Trust with 60 doctors in training, this could save £200,000 per hospital every year.



Meet the companies

DigitalHealth.London Accelerator

Forward Clinical Ltd

@ForwardHealth_
www.forwardhealth.co

Forward is a secure messaging and workflow app created by doctors who understand health and care communication deeply. Forward connects careworkers across healthcare silos, oriented around patient pathways through the system.

NHS problem tackled

Every health professional wastes time due to outdated communication systems. A better solution is needed to save time and improve patient care.

Impact

- Forward can save hospital doctors an average of 42 minutes/shift versus current communication tools
- With the advent of GDPR, Forward offers a comprehensive solution to the problem of secure health and care communication
- Forward is designed for personal devices and is an easy-to-implement solution which should increase retention and motivation
- Forward expects to increase productivity resulting in smoother, faster patient flow, lowering length of stay in hospital, and decreasing the time taken to see the right specialist(s)

forward

Health Navigator Limited

www.health-navigator.co.uk

Health Navigator specialise in the provision of innovative healthcare services to achieve improved outcomes for high-risk patient groups. Our key service is Proactive Health Coaching. This is a nurse-led, digitally supported intervention that helps people manage their health through evidence-based support and coaching, reducing unplanned hospital care by 30-50%.

NHS problem tackled

The NHS is faced with unprecedented and persistent pressures on urgent care. 1% of the population accounts for approximately 35% of unplanned admissions, and 55% of hospital bed-days.

This is a transient group which typically follows a pattern of rapidly deteriorating health leading to increased use of acute services. Often, highly resource-intensive patients are identified too late to prevent deterioration, which may result in unplanned hospital care.

Impact

- Could save the NHS up to 25% of all unplanned in-hospital care and A&E visits
- Currently working in 10 CCGs and hospital trusts, saving on average 30%-50% of unplanned care
- In the UK, has helped free-up over 5000 bed-days
- The service has significantly helped increase patients' self-rated quality of life and patient activation measures

HealthNavigator

Meet the companies

DigitalHealth.London Accelerator

Healum Ltd

@drjulianapp
www.dr-julian.com

Healum enables people to cost effectively monitor and understand their physical and mental health. It provides connected software and apps to improve self-management amongst patients with long term conditions.

NHS problem tackled

Over 15million people in England live with one or more of the long-term conditions, accounting for 70% of the health expenditure and 78% of GP appointments. Person-centred care that includes collaborative care planning, social prescribing and behavioural support from multidisciplinary teams, has the potential to significantly impact patient management of their condition outside the clinical setting.

Impact

- 150,000 patients have achieved a reduction of HBA1c of 1%
- £12.2million cost abatements from reductions in unnecessary GP appointments
- Cost abatements of £138million from 55,500 reduced admissions over 5 years from microvascular conditions
- Cost savings of £8.5million by reducing drug costs from £361 to £314 per patient
- Estimated return on investment is between £3.65 and £6 for every £1 spent

♥ healum

i-GP

@wellness_igp_uk
www.i-gp.uk

i-GP is an online consultation platform that allows patients faster access to primary care for minor illnesses. The platform also collects, analyses and interprets patient data to make diagnoses more systematic.

NHS problem tackled

Due to difficulty in accessing primary care appointments, 3million patients attend A&E, where an assessment costs the NHS £125. This results in a £375million cost, which could be prevented if more primary care appointments were accessible.

Impact

The total potential cost savings to the NHS of using i-GP could amount to over £900million per year.



Meet the companies

DigitalHealth.London Accelerator

IOCOM

@IOCOM
www.iocom.com

IOCOM's unique technology connects NHS staff, patients and partners in a virtual eco-system which gives people the power to work in new ways. The NHS can now connect in real time to any building, vehicle, home or phone. This offers expertise in real-time where it is needed.

NHS problem tackled

Convening experts – whether clinical or operational – from across geographies, sites, and different specialties in the NHS can be challenging. This can make collaboration time-consuming and inefficient.

Impact

If the NHS utilises the full potential of the IOCOM platform, it could see:

- Reduced costs of an individual's services
- Reduction in A&E demand and bed spaces
- Increased access to virtual services, reducing physical demand
- Immediate expertise, connecting the right specialists to the right patient, quickly



Lavanya Plus Ltd (WeMa Care, WeMa Life, WeMa Plus)

@wemalife
www.lavanyaplus.com
www.wemalife.com

Lavanya combines an online care agency (WeMa Care), multi-service marketplace (WeMa Life) and business management software (WeMa Plus) to address the needs of multiple stakeholders – from consumers connecting with service providers to supporting local authorities. By driving digital integration of services, Lavanya is creating a future of quality, easily available and affordable care for everyone.

NHS problem tackled

The NHS is currently facing a number of interlinked issues surrounding provision of social care and health services, including a 25% increase in the 'delayed transfer of care' to 2.3million delayed transfer days, a £2.5billion funding gap, and shortage of skilled medical staff. Age UK estimated that in 2016-17, 1.2million people over the age of 65 had some unmet care needs.

Impact

Our current solution is dedicated to supporting the NHS to improve care outcomes for people, particularly across the five London regions, which cover a population of more than 9million people.

The combined WeMa solution will deliver social and secondary care services in upwards of 1000 care hours per week. This will empower individuals to self-manage their care, health and wellbeing, and will save 1-2 staff hours a day for administrative and manual tasks. If extrapolated, this will result in 250-500 hours a year or 25-50 days saved per year per carer, which can be used more effectively to focus on care delivery.



Meet the companies

DigitalHealth.London Accelerator

LIVI

www.livi.co.uk

LIVI delivers video GP consultations within minutes to patients via their mobile devices – anytime and anywhere the patient chooses.

NHS problem tackled

There are increasing demands on general practice in the UK. The NHS is finding it difficult to recruit and retain sufficient GPs. At the same time, activities previously undertaken in secondary care are now done in primary care, but funding has not followed patients. Additionally, more patients are reporting difficulty in accessing care and are less satisfied with their experience of using GP services.

Impact

93% of LIVI patients use LIVI in place of a physical doctors consultation, saving clinical time for GPs. Through video consultations, patients can seek medical advice, prescriptions, referrals and sick notes, providing a more convenient service for patients.



Locum's Nest

@locumsnest
www.locumsnest.co.uk

Locum's Nest is a staff bank management web and mobile app that connects healthcare professionals to temporary work in NHS organisations. Locum's Nest has pioneered the way for the NHS' first truly collaborative digital staff bank with fill-rates exceeding 90% trust-wide. This has resulted in reduced use of agencies, surpassing £2.5million each year.

NHS problem tackled

The NHS spends billions of pounds on temporary staffing each year. The existing process of finding and matching available doctors to short-term positions is inefficient and ineffective, leaving hospital administration staff spending hours advertising vacancies to a limited pool of doctors, and outsourcing to expensive agencies when they can't recruit. Inadequate temporary staffing costs each trust £850,000 on average per year.

Impact

If every NHS trust in the NHS were to partner with Locum's Nest, it could save the NHS over £0.5billion in the first year. This is based on statistics from Royal Surrey County Hospital NHS Trust and Ashford and St Peter's NHS Foundation Trust saving £4.9million in its first two years, and £3.2million in their first year, respectively.



Meet the companies

DigitalHealth.London Accelerator

MeeTwo Education Ltd

@meetwohelps
www.meetwo.co.uk

MeeTwo is a multi-award winning app that makes it easier for anxious teenagers to talk about difficult things. Informed by psychological research, MeeTwo is a fully moderated intervention, which harnesses the power of peer support to incentivise altruism as a scalable solution to declining teenage mental health. Informed by the latest psychological research, MeeTwo uses peer support to create a scalable solution to declining teenage mental health.



NHS problem tackled

50% of adult mental health issues manifest by the age of 14. One in five young people experiences a mental health issue in any given year and suicide is the leading cause of death in young people, accounting for 14% of deaths in 10-19 year olds. Overall, mental health problems in children aged 5–15 years amount to at least £1.5 billion per annum and the mean annual cost of health, education and social services for a single child aged 5–15 years with an emotional or behavioural disorder is £1,800. Early interventions focused on children and adolescents can alleviate some of the public health burden associated with mental health disorders.

Impact

MeeTwo is a fully scalable low cost intervention, which can alleviate the burden on the NHS and Child and Adolescent Mental Health Services (CAMHS). It supports the 61% of children who are referred for mental health support by their GPs, but who are refused help because they don't meet the increasingly rigid threshold criteria.

My Possible Self

@MyPossibleSelf
www.mypossibleself.com

My Possible Self is a mental health app, which uses content developed by the Black Dog Institute proven to reduce stress, anxiety and depression in just eight weeks. The app helps adults learn how to improve thoughts, feelings and behaviour. It includes learning modules to help users overcome day-to-day problems, manage fear and improve happiness and wellbeing.



NHS problem tackled

Mental health problems are widespread, at times disabling, yet often hidden. One in four adults experiences at least one diagnosable mental health problem in any given year. People from all walks of life can be affected and at any point in their lives. Mental health problems represent the largest single cause of disability in the UK. The cost to the economy is estimated at £105 billion a year – roughly the cost of the entire NHS.

Impact

My Possible Self aligns with the objectives of NHS England's Five Year Forward View for Mental Health to improve resilience, mental ill-health prevention, early intervention and accessibility.

In a clinical trial registered with the Australian New Zealand Clinical Trials Registry, My Possible Self was found to facilitate rapid improvements in both symptoms and in-work and social functioning for individuals with mild-to-moderate mental health problems.

Meet the companies

DigitalHealth.London Accelerator

MySense

@mysense_ai
www.mysense.ai

MySense is a digital health analytics platform that uses data from fixed and wearable devices to understand individual patterns of behaviour and biometric responses. It learns what wellness is for the individual and uses machine learning to understand when there is a decline. A monitoring dashboard and alert function ensures that when an individual's wellbeing is declining, care can be provided proactively in a timely manner.



NHS problem tackled

MySense supports the Integration of the Health and Social Care agenda: right intervention, right time, right place. Prevention and early intervention is embedded in all of the clinical workstreams within the STP.

Impact

- Reduces individuals' care needs at home by 60%, through timely interventions; resulting in savings for Local Authorities and care providers who can better direct resources
- Facilitates earlier discharge of over 65s from acute hospitals, and reduces the average length of stay
- Reduces the number of patients staying in acute hospitals that could be cared for elsewhere
- Supports health and care systems to reduce the spike in the cost of care packages post-hospitalisation
- Helps patients to stay at home, safely, for longer and reduces A&E visits

Q doctor (MyMed Ltd)

@qdoctor_io
www.qdoctor.io

There is an opportunity for video consulting technology to support existing infrastructure and existing patient lists. Using Q doctor, GPs can enhance telephone consultations, occasionally replace home visits, and bring in a digital workforce. This allows practices to retain their patient lists, and more effectively reach patients.



NHS problem tackled

There are over 1 million failed attempts to book GP appointments every week in the UK. But there are enough GPs for the number of appointments demanded; they just are in the wrong place at the wrong time. There is a big opportunity to use video consulting technology to support existing infrastructure and existing patient lists.

Impact

- 20-25% of consultations in primary care are delivered by locums
- Q doctor saves an average of 20% on locums and can deal with 60-70% of cases – this could save >£150m per year
- Platform use by in-house GPs allows the existing workforce to work flexibly, and occasionally can replace home visits (£80+ saving per consultation)

Meet the companies

DigitalHealth.London Accelerator

Smoke Free

@smokefreemobile
www.smokefreeapp.com

Smoke Free is an app to help people stop smoking. It incorporates the best available evidence on how to quit smoking and over 20 different behaviour change techniques. The app sets missions each day to help users stop smoking and stay smoke free. Participants who combine missions and the app were twice as likely to quit successfully as participants who used the app alone. Symptoms or consult with a clinician wherever you are, in minutes.



NHS problem tackled

Smoking is the largest cause of preventable illness and death in the UK. Each year smoking is responsible for approximately 80,000 deaths and 500,000 hospitalisations, with millions more people suffering ill health effects. The Government has set a goal for a “smoke free generation”, with smoking prevalence reduced from 17% to 5%; a reduction of 6million current UK smokers. Smoking costs the NHS between £2.7billion and £5.2billion each year.

Impact

Current costs for NHS support to quit smoking stand at £420-2,479 per quitter. Smoke Free reduces these costs to £90 per quitter. If the app is only a quarter as successful as NHS brief advice – and there is reason to believe it as this is a conservative estimate – it could save the NHS up to £2,389 per quitter per year.

Synopsis Healthcare

@Synopsis_Health
www.synopsishealthcare.com

Synopsis Healthcare provides a more efficient process of preoperative assessments using an online assessment questionnaire. This allows hospitals to focus resources more effectively on higher risk patients.



NHS problem tackled

10million surgical procedures take place in the UK per year, with cancellation rates at around 20%. Currently, hospitals use non-standardised paper based preoperative assessments, conducted by clinical staff during a 45-minute hospital visit, which can extend upwards of 3 hours for some patients. This is often completed too close to the surgical procedure to reallocate resources should a cancellation occur.

Impact

Total benefits of £65million could be realised from efficiency of collecting pre-operative data: Synopsis allows up to 40% of low risk patients to avoid having to attend a full pre-operative clinic, and can reduce cancellations, which currently stand at around 20%.

Synopsis reduced pre-assessment process costs at Southend University Hospital, Essex, from 44% to 31%.

Meet the companies

DigitalHealth.London Accelerator

TrackActive

@Track_Active
www.trackactive.co

TrackActive Me is a chatbot-driven application providing personalised physical activity programmes. It is driven by clinical algorithms and artificial intelligence to assist people with musculoskeletal conditions and chronic diseases to self manage through exercise.



NHS problem tackled

Musculoskeletal conditions are the leading cause of years lived with disability of any health condition globally. In the UK, 20% of GP consultations are for musculoskeletal conditions, account for 30million lost working days, and represent 22% of all sickness absences. Musculoskeletal conditions account for the third largest area of NHS programme spending at £4.7billion in 2013-14, with long wait times to see NHS physiotherapists and delayed intervention increasing chronicity of problems. Digital technology can be part of the solution.

Impact

TrackActive Me could reduce waiting times and costs associated with seeing physiotherapists. By facilitating better musculoskeletal health and increased activity levels, TrackActive Me could prevent and help manage chronic disease.

Trakka Medical (HaMpton)

www.trakkamedical.com

HaMpton involves the use of an innovative smartphone app for monitoring high blood pressure at home. The app alerts women if they need to attend the hospital, and it also links with a hospital computer system where the data can be monitored by clinicians in real time. HaMpton empowers women to be involved in their own care, reduces the number of hospital visits, and has achieved excellent patient and staff satisfaction.



NHS problem tackled

High blood pressure disorders complicate 10% of pregnancies and pre-eclampsia affects between 2-8%. Pre-eclampsia can be life threatening for both mother and baby. Standard care pathways for women who have high blood pressure in pregnancy require frequent hospital visits. This has significant cost implications, both to the NHS and to patients, and can cause anxiety to pregnant women.

Impact

- 53% reduction in number of appointments for hypertension monitoring, and amount of time per appointment
- £300 average cost saving per patient per week according to basic health economic study
- £50million potential annual cost saving if scaled up across the UK

Meet the companies

DigitalHealth.London Accelerator

Trayned Insight Ltd

@traynedinsight
traynedinsight.com

Trayned Insight undertakes analysis of hundreds of performance and outcome measures in primary care. It links population, healthcare, socio-economic and other open source data and generates insight that can be used to improve patient care, save money, and drive efficiency. The output can be viewed at every level of the NHS. By using population level data that is already in the public domain, Trayned Insight avoids restrictions imposed by use of personal healthcare data, making analysis at a local level immediately scalable to a national level.



NHS problem tackled

Performance of health systems and outcomes for patients are determined by many factors. Health service providers control some, but others reflect social, economic and behavioural influences. Understanding these factors is critical to determining optimal care pathways. Our approach identifies the dominant factors that determine outcomes, adjusts for many health, demographic and socio-economic variables, and enables accurate comparisons between peers that can inform targeted interventions.

Impact

- Reducing GP practice variation in medicines prescribing could conservatively reduce NHS drugs spend by £700million annually
- It would be possible to potentially to decrease emergency admissions for 19 Ambulatory Care Sensitive Conditions by between 9.4% and 41.3%, saving between £130million and £600million annually
- There would be 38,849 fewer emergency presentations of cancer in a year – presentation in this way carries a very poor prognosis

Trustedoctor Ltd

@trustedoctor
www.trustedoctor.com

Trustedoctor makes access to specialist doctors quicker, easier and more meaningful. It uses a cloud-based, open platform that allows specialist physicians to quickly engage with and assess patients and consult with colleagues in a convenient virtual setting. Doctors and patients can securely exchange medical files and establish video consultations with live imaging. Trustedoctor eliminates outdated silo networks and works with evolving consumer demands for convenience.

NHS problem tackled

The NHS is facing challenges in delivering better healthcare and managing ever-increasing demand. 70% of all consultations including routine follow-ups could be conducted virtually; whilst post-surgical discharge costs the NHS £1.6billion per year, with readmission rates increasing year-on-year.

There is also the increasing demand for virtual consultations in specialised medicine, with some hospital departments already using Skype and phone calls for follow-up clinics. However, the existing technology is often cumbersome to use, and medical notes are dispersed in several places.

Impact

- 70% of routine second opinions and follow-ups can be replaced with video consultations in specialised medicine
- Trustedoctor can reduce post-surgical readmissions from 10% to 5%; saving the NHS up to £1.6billion per year



Focus on: Improving patient flow in the Emergency Department

In 2018, London North West University Healthcare NHS Trust launched the “Let’s Get Digital” innovation programme. It invited DigitalHealth.London Accelerator companies to pitch their solutions to the trust, including Infinity Health, a secure collaboration and task management platform that addresses workflow and mobile communication challenges.

One of the trust’s key challenge areas was patient flow in the Emergency Department and a project team, including clinical and operational stakeholders, was set up to reduce waiting times.

The existing paper-based process for transferring patients was contributing to delays, so Infinity Health prototyped a solution to transform how patient transfers were requested and coordinated. This provided clinical staff with an improved experience for requesting, tracking, and prioritising porter requests from anywhere within the Emergency Department. It also gave operational teams the visibility, tools, and data-driven insights to optimise activity on the ground.

Following an evaluation by the project team and stakeholders, the trust and Infinity Health are proceeding with a multiphase programme, beginning with a live implementation at Northwick Park Hospital, which has one of the busiest Emergency Departments in the country.

Infinity Health and the trust will monitor activity to optimise patient transfers and ultimately reduce waiting times for patients.

Learn more about Infinity
www.infinity.health
[@infinityhealth](https://twitter.com/infinityhealth)



Focus on: Enabling key “at risk” patients to access sexual health services

Each month, just three sexual health clinics in Guy’s and St Thomas’ NHS Foundation Trust (GSTT) diagnose 400 cases of chlamydia, 250 cases of gonorrhoea, 100 of trichomoniasis, 50 of syphilis, and five cases of HIV.

Many sexually transmitted infections (STIs) do not cause symptoms; thus, most are unwittingly passed on. Improving connections from diagnosis to treatment for people with a new STI diagnosis is key, so that they can take action to protect their health and reduce the risk of onward transmission.

SXT supports access to sexual health and reproductive services using web, mobile, and SMS. It is anonymous, quick, and simple to use.

The Accelerator has supported SXT with navigation, access to training, introductions and support. Within GSTT, SXT now provides four services to help tackle the incidence of STIs and reduce transmission:

- Signposting, so that patients can find the right service for them, in the right place, and at the right time.

- An anonymous partner notification tool to support patients to tell sexual contacts of their STI risk, and then help these individuals to find an appropriate local service.
- A decision support tool which helps women to estimate their pregnancy risk, understand emergency contraception options, and identify local providers where necessary.
- A booking module for the provision of targeted appointments for partners of patients with HIV, and for patients who take an HIV test at home and have a reactive result.

With the above services, the whole patient journey from diagnosis through to treatment and partner risk reduction is connected, making it simpler and more effective to manage the public health challenge of sexually transmitted infections.

Since launching the booking module at Burrell Street Sexual Health clinic, the number of sexual contacts being seen and treated increased by 36% in just two weeks; enabling this clinic to surpass national targets.

Learn more about SXT
www.sxt.org.uk
[@SXTHealthCIC](https://twitter.com/SXTHealthCIC)



NHS
Chelsea and
Westminster Hospital
NHS Foundation Trust

Focus on: Using digital to deliver excellent paediatric care in physiotherapy

In Chelsea and Westminster Hospital NHS Foundation Trust, a key challenge for physiotherapy compliance is that the children’s wards are not conducive to performing regular exercise. This can cause a lack of motivation and enthusiasm to do physiotherapy, which in turn can lead to prolonged injury and increased length of stay.

The Accelerator works in close partnership with Chelsea and Westminster Hospital NHS Foundation Trust’s charity, CW+, to help identify key challenge areas and find digital solutions. Working closely with one of our Accelerator “NHS Navigators” – an NHS expert that scouts for solutions – Chelsea and Westminster Hospital was introduced to MIRA Rehab. MIRA Rehab provides an innovative digital system is designed to make physiotherapy fun and convenient for patients recovering from surgery or injury, by transforming physical therapy exercises into video-games.

It was chosen to work in children’s wards in the hospital to increase the motivation, compliance, and understanding of physiotherapy exercises for children in the ward environment.

The software helps patients engage and stay motivated throughout their therapy programme by using games, and employs a motion-sense device to help physiotherapists assess therapeutic motions. The games are based on best clinical practice and expertise

from specialist physiotherapists, and can be customised to individual patients’ needs. Patients progress to different levels within games, whilst performing rehabilitating movements at the same time.

This digital approach will help the paediatric therapy department at Chelsea and Westminster Hospital to expand their technological equipment and assist in delivering excellent care in line with the trust’s objectives. The use of MIRA could benefit up to 2000 patients at Chelsea and Westminster Hospital over two years.

David Soulsby, Acute Team Clinical Lead Paediatric Physiotherapist, Chelsea and Westminster Hospital said, “We are very excited to start this collaboration with MIRA. Enabling our paediatric patients to have extra motivation by using gamification exercises during their therapy sessions should enable them reach their goals quickly, and by having more fun!”

MIRA is now also working with London Southbank University to validate some of its measurements, and with University College London to develop an additional game for paediatrics and adolescents.

Learn more about MIRA Rehab
www.mirarehab.com
[@MiraRehab](https://twitter.com/MiraRehab)

Supported by an NHS Navigator to identify ChelWest opportunities.

NHS Mentors and Champions

With special thanks to the following for their parts played in the programme who generously provided their expertise and advice to innovators on the programme, without whom we would not have been able to support the NHS to speed up its uptake of digital innovations. These people not only

offer their time, they also act as champions for digital health, and support innovators to develop and adapt their innovations to match the needs of the NHS. Thank you to all our supporters across health, social care, and academia.

Name	Role	Organisation
Amanda Begley	Director of Innovation and Implementation	UCLPartners
Ami Banerjee	Senior Lecturer in Health Informatics / Cardiology Consultant	University College London / Barts Health NHS Trust
Andi Orlowski	Head of Business Intelligence	Imperial College Health Partners
Andy Burroughs	NHS and care Navigator	South West Academic Health Science Network
Anna Coltman	NHS and care Navigator	South West Academic Health Science Network
Anna King	Commercial Director	Health Innovation Network
Arjun Sikand	Commercial Partnerships	Health Innovation Manchester
Ashish Chokshi	Optometrist	Moorfields Eye Hospital
Axel Heitmueller	Managing Director	Imperial College Health Partners
Ben Bridgewater	Chief Executive Officer	Health Innovation Manchester
Charles Lowe	Managing Director	Digital Health and Care Alliance
Charlie Davie	Managing Director	UCLPartners
Christos Kontovounisios	Consultant Colorectal and General Surgeon	Chelsea and Westminster Hospital NHS Foundation Trust
Christos Papanagnou	Lecturer in Logistics & Supply Chain Management	Salford Business School

NHS Mentors and Champions

Name	Role	Organisation
Cheryl Dickens	Junior Project Manager	NHS Digital
Dave Thompson	NHS and care Navigator	South West Academic Health Science Network
David Lawson	Director of Procurement	Guy's and St. Thomas' NHS Foundation Trust
Dean Mohamedally	Principal teaching fellow, Department of computer science	University College London
Des Holden	Medical Director	Kent Surrey Sussex Academic Health Science Network
Dominic Shaw	Associate Professor and Honorary Consultant	University of Nottingham
Donal O'Donoghue	Medical Director	Health Innovation Manchester
Dr George Verghese	Primary Care Doctor	Waterloo Health Clinic
Elaine Chesworth	Innovation Adoption Manager	Health Innovation Manchester
Emma Stanmore	Research Explorer	Health Innovation Manchester
Grant Oliver	IT Programme Manager	South West London Clinical Commissioning Group
Gurpreet Singh	Chief Executive and Chairman / Advisory Board Member	Greenwich Health Ltd / DigitalHealth.London
Guy Boersma	Managing Director	Kent Surrey Sussex Academic Health Science Network
Hak Salih	Digital Health Lead	MedCity
Harpreet Sood	Associate Chief Clinical Information Officer	NHS England
Ian Abbs	Medical Director	Guy's and St. Thomas' NHS Foundation Trust
James Varley	Finance Director	Chelsea and Westminster Health Charity

NHS Mentors and Champions

Name	Role	Organisation
Jonathon Gray	Chief Executive Officer	South West Academic Health Science Network
Juliet Bauer	Chief Digital Officer	NHS England
Junaid Bajwa	Global Lead for Strategic Alliances, Digital Centre of Excellence	Merck & Co.
Karen Glover	Director of Partner Relations	University of Nottingham
Kat Stolworthy	Associate Director, Digital Transformation	Surrey Heartlands STP
Kate Daley	Clinical Psychologist / NHS Navigator	Health Innovation Network
Laura Boyd	NIA Programme Manager	UCLPartners
Lauren Constable	Business Analyst	Health Innovation Manchester
Leon Douglas	Chief Information Officer	Whittington Health
Lesley Soden	Head of Innovation	Health Innovation Network
Linda Hudson	Senior Clinical Advisor	Health Innovation Manchester
Louise Witts	Deputy Chief Executive Officer	South West Academic Health Science Network
Luke Readman	Chief Information Officer	East London Health and Care Partnership
Manish Miglani	Investment Director	Nesta
Mark Duman	Non-Executive Director	Patient Information Forum
Mark Kewley	Director of Strategic Development for Digital	NHS England
Michael Wright	Programme Director	Guy's and St. Thomas' Charity
Mike Hannay	Chair of AHSN Network	East Midlands Academic Health Science Network
Mike Turner	Programme Director	Health Innovation Manchester

NHS Mentors and Champions

Name	Role	Organisation
Naresh Kanumilli	Consultant Diabetes	Health Innovation Manchester
Navin Ramachandran	Radiology consultant / Healthcare Specialist in distributed ledgers and Internet of Things	University College London Hospital / IOTA Foundation
Neelam Patel	Chief Operating Officer	MedCity
Niels Peek	Professor of Health Informatics	University of Manchester
Nishan Sunthares	Chief Operating Officer	Association of British Healthcare Industries
Pam Garside	Partner / Board Member	Newhealth / DigitalHealth.London
Partha Kar	Associate National Clinical Director for Diabetes	NHS England
Paul Wallace	Clinical Director for Digital	Health Innovation Network
Peter Carpenter	Delivery Director	Kent Surrey Sussex Academic Health Science Network
Phillip Harniess	Senior Research Physiotherapist	Great Ormond Street Hospital
Prof Nicholas Peters	Consultant Cardiologist / Board Member	Imperial College Healthcare NHS Trust / DigitalHealth.London
Rachel Neaman	Non-Executive Member	DigitalHealth.London Accelerator Advisory Board
Richard Ashcroft	Programme Director	NHS Digital
Richard Lee Wright	Chief Analytics & Evaluation Officer	Kent Surrey Sussex Academic Health Science Network
Rob Berry	Interim Commercial Director	UCLPartners
Robert Cook	General Manager	Guy's and St. Thomas' NHS Foundation Trust
Sam Shah	Director of Digital Development	NHS England
Sarah Haywood	Chief Executive Officer	MedCity

NHS Mentors and Champions

Name	Role	Organisation
Sarah Lally	Acute Liaison Nurse, Learning Disabilities	Royal Free London NHS Foundation Trust
Shirlene Oh	Director of Commerce	Imperial College Health Partners
Simon Eccles	Chief Clinical Information Officer	NHS England
Stuart Monk	Director of Delivery	South West Academic Health Science Network
Susan Mason	Senior Clinical Advisor	Health Innovation Manchester
Tara Donnelly	Chief Executive	Health Innovation Network
Teresa Grieve	Assistant Director Research & Innovation	Derby Hospitals NHS Foundation Trust
Tim Robinson	Interim Commercial Director	East Midlands Academic Health Science Network
Tom Carlisle	Information Specialist	Great Ormond Street Hospital
Tony Willis	North West London Clinical STP Lead	North West London STP
Wayne Shirt	PFS Lead and Release Manager	NHS Digital
Wayne Smith	Health Economist	Imperial College Health Partners
William Lilley	Partnership Director	South West Academic Health Science Network
Yinka Makinde	Programme Director	DigitalHealth.London

Meet the team

East Midlands Academic Health Science Network



Nicholas Brown
*Commercial Manager
(Navigator)*

Nick joined the East Midlands Academic Health Science Network (EMAHSN) as Commercial Manager in June 2015. Prior to this Nick had more than 20 years' experience within the medical industry working with manufacturers, distributors and clinical staff from the UK and European health sectors, in both sales and marketing, as well as having a consulting and advisory role.

His current role focuses on building closer links between healthcare and businesses; identifying new services and products that can be introduced for the benefit of patients throughout the region – as well as marketed throughout the UK and internationally, to provide wealth creation opportunities across the East Midlands.



Aisha Ajji
*Project Support and
Industry Liaison Officer*

Aisha has worked at the East Midlands Academic Health Science Network (EMAHSN) since 2014. She has experience in working with innovators from industry, NHS and academia. She works with companies helping them to navigate the NHS marketplace and provides advice, support and signposting to help them to develop their offer.

Aisha organises and supports a number of consultation sessions on behalf of the EMAHSN. She is passionate about making innovations more accessible for patients and clinicians.

Meet the team

Health Innovation Manchester



Dr Richard Deed
*Associate Director
for Industry*

Richard has been responsible for the delivery team for the industry and wealth programme in Health Innovation Manchester for the last 3 years. He is also Technology Director at TRUSTECH the NHS innovation service where he has developed significant experience in the identification, evaluation and commercialisation of healthcare innovations. With an earlier significant career in oncology research, Richard is recognised for his experience in the identification and evaluation of health and care innovation.



Kevin Moreton
*Life Science Sector
Advisor (Navigator)*

Kevin has extensive experience of supporting SME's as they seek to enter the healthcare market. He acts as a Life Science Sector Advisor for the Manchester Growth Company advising local SME's on how to sell and tailor their products to the NHS. Kevin has also project managed several local Digital Innovation calls in the Manchester region ensuring that the healthcare needs and priorities of the region are aligned with suitable digital solutions.



Dr Paul Hanmer
*Life Science Sector
Advisor (Navigator)*

Dr Paul Hanmer is an inventor and technology expert who has worked in the public and private sector to develop and integrate innovations with health provider organisations. Paul has worked with NICE, the NHS National Innovation Centre, Health Innovation Manchester and NHS England as well as international commercial medical device companies. He has been an expert assessor for SBRI Healthcare funding calls and other UK government grant awarding bodies. He was the UK lead for DECIPHER an EU funded project to develop technologies for pan European electronic patient records. Dr Hanmer is a Lean Six Sigma Black Belt.



James Corden
*Life Science Sector
Advisor (Navigator)*

James is a Chartered Mechanical Engineer with experience in technical consulting, project management and engineering design. During PhD research at Leeds University, James was involved in the design and development of a polyurethane artificial heart valve intended for human implantation and for incorporation within a left ventricular assist device. James has secured over £3million in grant and equity funding to support the development of early stage technologies conceived by NHS clinicians including the establishment of two spin-out companies to commercialise an atrial fibrillation screening device and a product to recover blood during surgery.

Meet the team

Health Innovation Manchester



Sig Mikladal

*Life Science Sector
Advisor (Navigator)*

Sig manages the high-quality delivery of the SME support service, the Innovation Nexus, on behalf of Health Innovation Manchester. Sig has considerable experience as an entrepreneur and manager in finance, accounting, IT, business planning and project management with innovative SMEs in Healthcare, Medtech and IT. He also has experience of setting up and managing a social enterprise in health and social care. Sig is a graduate of Manchester Business School with an MSc in Management of Science, Technology and Innovation. He also has a BA (Hons) in International Business Management and is a certified PRINCE2 Practitioner in project management.



Ambreen Yasin

Project Officer

Amber provides administrative, planning, delivery and project support for a number of programmes, events and conferences including STEP INTO Healthcare, and funding search services. She has expertise in events planning, customer service, research analysis, project support, general admin support, business support, clinical research.



Rob Berry

Head of Innovation

Rob leads on engagement with industry and support for local development and implementation of technology based innovation. As part of the AHSN Network, he is the AHSN representative on the NICE Implementation Collaborative, a board member of the Small Business Research Initiative and the Commercial Director for the Medical Technology Innovation National Network. He is also working as an Interim Commercial Director for UCLP AHSN. Rob supported the development of the national AHSN Guidance and the establishment of the Kent Surrey Sussex AHSN. He has a MSc in Health Care Management and is a non-remunerated board member of South East Health Technologies Alliance.



Peter Carpenter

Programme Director

Peter is responsible for delivery oversight of the portfolio of programmes for Kent Surrey Sussex AHSN, including the quality improvement and patient safety collaborative portfolios, as well as the programme activity to spread and adopt innovation into practice. Peter is the senior engagement lead with Surrey Heartlands Partnership and Strategy Lead for the Academy. Working closely with the Medical Director and leading the improvement team, delivery is built upon vibrant clinical networks who are keen to improve outcomes for patients and implementing innovation. Peter is committed to the principles of change and improvement through partnership and collaborative working.



Gill Potts

*Senior Programme
Manager*

Gill has been working for KSS AHSN since its formation in 2013. Her portfolio of work includes supporting the industry engagement work programme and leading on End of Life Care. She is leading on the programme management and oversight of KSS AHSN's work with industry and is closely linked into the national AHSN team. Gill has worked for the NHS since 2002 in a variety of roles mainly around service improvement, change management and project management.



Dr Charlotte Roberts

*Senior Programme
Manager (Navigator)*

Charlotte leads the 'Technology Navigation' team for KSS AHSN and service as well as supporting Sustainability and Transformation Partnership. She obtained her medical degree from University College London and completed a BSc in International Health at the UCL Institute for Global Health where her passion for public health and policy began. She completed the Foundation Programme at Oxford University Hospitals in clinical areas including respiratory, infectious diseases, ENT, neurosurgery, GP and paediatrics. She undertook a NHS National Medical Director's Clinical Fellowship with the Faculty for Medical Leadership and Management where she was seconded to Public Health England.

Kent Surrey Sussex
Academic Health Science
Network

Meet the team

Kent Surrey Sussex Academic Health Science Network

Kent Surrey Sussex
Academic Health Science
Network



Fiona Whitaker

*Programme Manager
(Navigator)*

Fiona is part of the Technology Navigator Team and taking a lead in Kent and Medway and supporting Surrey Heartlands. The 'Tech Nav' team help industry and health work more closely together, enabling innovation to reach the frontline in a more timely way. Fiona has a background in nursing and health visiting and has worked in Surrey for some time in both the NHS and private sectors. Last year she undertook a Darzi Fellowship leading on a mental health project, which involved working across organisations and using many different approaches including co-production. Fiona is excited about the opportunities to spread innovation and work with different organisations and people across the Kent, Surrey and Sussex area.

Katherine Sykes

*Programme Manager
(Navigator)*

Katherine is a new member of the Kent Surrey Sussex AHSN Technology Navigator team. Kath's role is to ensure providers are aware of innovations that may be of benefit and help them navigate the process of implementation as well as support evaluation and roll out of local initiatives through the system. Kath is also responsible for Sussex and East Surrey STP engagement. Kath is a Nurse by profession with a Cancer and Research (clinical and academic) background, and more recent commissioning experience in Quality management. Kath is excited to be working at the Kent Surrey Sussex AHSN to support the identification and spread of evidence-based innovations that help patients and systems and provide sustainable solutions for healthcare challenges.



Claudette Boa-Amponsem

Programme Co-Ordinator

Claudette is a recent graduate from Keele University, where she obtained an MA in Medical Ethics and Law. Prior to this, Claudette attended Royal Holloway University of London and graduated with a BSc in Biomedical Science. Claudette has experience in event and project management, and working with the NHS to improve health services. She is now looking to use her skills and expertise to spread healthcare innovation through organising successful programmes and events and will be working closely with the innovation team and Technology Navigators on their work with industry.

Meet the team

Digital Health Accelerator South West

South West
Academic Health
Science Network



Rupa Chilvers

*Programme Manager
(Navigator)*

Rupa has worked across health and social care specialising in supporting the implementation of evidence-informed care through research, policy, and engagement projects with clinicians and practitioners. She has worked on local, national and international projects, including with the World Health Organisation, on a range of health workforce projects to improve population-wide health outcomes. Having been involved in digital health projects for over a decade, Rupa is passionate about supporting early engagement with the users of the technologies and bringing cutting-edge innovations to the point of care for sustainable impact.

David Wright

*Innovation Exchange
Programme Manager*

David is experienced in supporting organisations to successfully complete bids for new contracts and has raised funds across different public sector projects, including the South Western Ambulance Service NHS Foundation Trust and Babcock International Group. He has a strong interest in working across multiple stakeholder groups to develop strong business cases and proposals for new innovations. In his role as Programme Manager, David manages the delivery of the Innovation Exchange programme across the South West and will bring a range of experiences on supporting businesses on the innovation pathway, to support the companies on the Digital Health Accelerator.



Sam Strickland

Programme Co-ordinator

Sam works on the Innovation Exchange programme and is the first port of call for innovators and businesses requiring support navigating the health and care sector. She is involved in triaging innovators for further support and is well-versed on some of the challenges and opportunities for the spread and adoption of innovations in the South West. Sam has a wealth of information and knowledge on the upcoming workshops, funding rounds, and potential for signposting partners and collaborative networks.

William Lilley

Partnership Director

William currently leads the Commercial programme of work and South West Patient Safety Collaborative programme at the South West AHSN. Passionate about improving quality in healthcare, he completed a Clore Social Fellowship and is a member of the Q Community. William brings a wealth of expertise across the population health and prevention agendas, including experience in implementing wellbeing and mental health therapies to hard-to-reach communities as a co-founder of a social enterprise. In his current role, William works strategically to support the spread and adoption of innovations by taking a collaborative approach.



Meet the team

Digital Health Accelerator South West



Matthew Dolman
Clinical Associate

Matthew is a general practitioner in Somerset and has been for 21 years. He has developed a professional interest in population health and the enabling power of digital technologies over that time. Matthew was the Chairman of Somerset Clinical Commissioning Group for three years and Senior Responsible Officer for the Somerset Sustainability and Transformation Partnership for the first year of its evolution. Matthew also has a strong interest in exploring the impact of using artificial intelligence in supporting better conversations in health and care settings.



Dave Thompson
NHS and Care Navigator

Dave works across a range of large-scale and strategic IT implementation projects in the South West of England. As a former Head of Information Management and Technology at Cornwall Partnership NHS Foundation Trust and through his current and varied roles, he continues to be responsible for successful delivery of projects within secondary care and is actively engaged with collaborative groups such as the Chief Clinical Information Officers (CCIOs) in the South West. Dave has over 20 years' experience in delivering IT projects in the South West and is well-versed with the latest national developments in infrastructures for digital health.



Claire Higdon
Director of Corporate Programmes

Claire has worked in a variety of health-related roles spanning the development of patient-focussed business strategy, business planning, clinical and information system management and organisational development. She is passionate about working with frontline teams and patients in order to effect positive leadership of change. Claire brings a range of experiences gained in a variety of settings in the community, NHS, care sector and overseas with a keen interest in supporting partners to embrace digital health technologies.



Magdalena Wood
Partnership Director

Magdalena has a wealth of experience in leading transformational change, project management and building networks within the health and care sector to enable programme implementation and improvement. She has an in-depth understanding of the facilitators and barriers facing innovators, organisations and the workforce for spread and adoption of innovation. Leading a number of national programmes for implementation in the South West, Magdalena works strategically to support innovators to position their products and services for impact.



Meet the team

DigitalHealth.London Accelerator



JENNY THOMAS
Programme Director



ASHISH CHOKSHI
NHS Navigator



TOM CARLISLE
NHS Navigator



AMAN GUPTA
NHS Navigator



SARA NELSON
NHS Navigator



LAWRENCE PETALIDIS
NHS Navigator



PROF. PAUL WALLACE
Advisor



KATYA MASCONI-MULE
Project Manager



RASHEED ADEKUNLE
ERDF Compliance Manager



ROSE DE MENDONCA
Communications Lead



CATHERINE KAN
Project Support Officer



CHARLOTTE LEE
AHSN Accelerator Lead

How can we help you?

If you've been inspired by some of the companies showcased here please do get in touch. We're looking to host one to one support sessions with companies, educational workshops and showcasing opportunities with NHS and industry partners.

Do you have responsibility for commissioning or delivering clinical services? Do you have system challenges that you'd like support with? We can help match you with innovations and broker new partnerships, including pilots, and for evidence generation.

Contact us



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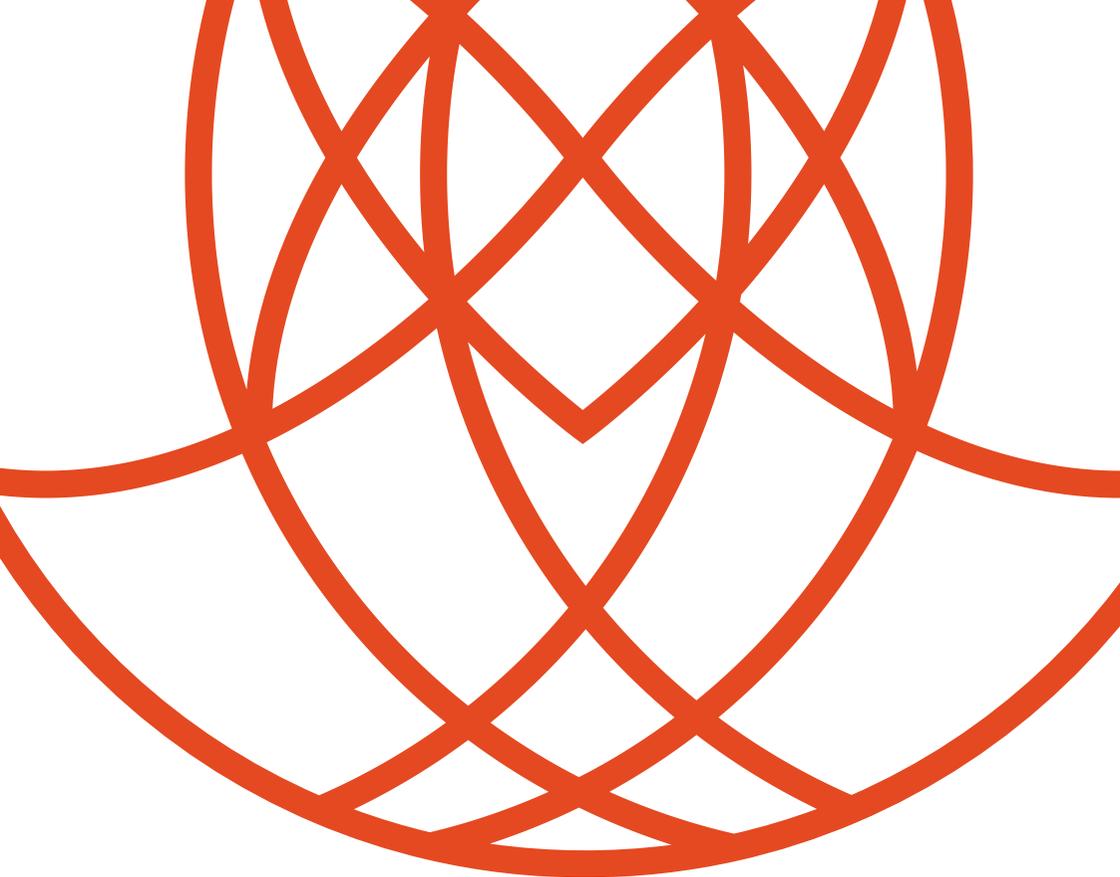
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