

Health Innovation Network

Local change, national impact



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Health Innovation Network

Local change, national impact

Meet the Innovators: The Engine of Health and Growth



““ Health innovation is vital to improving the nation’s economy as a whole, but it is also driving economic growth through supporting a thriving life sciences sector ””

Richard Stubbs
Chair, Health Innovation Network



Introduction

As the key organisation in England responsible for implementing innovative practice in health and care we have a unique mission: improving the health and wealth of our nation, with patient and citizen benefit as the ultimate goal to all our endeavours. Since 2018, our efforts have benefitted over 3.8m patients and generated almost £2.6bn for the economy.

The Health Innovation Network are 15 local organisations across England that transform lives by finding, testing and implementing innovations in the NHS that improve patient outcomes, delivering boots-on-the-ground innovation support to the health and social care workforce and driving economic growth.

Our position within the wider NHS ecosystem enables us to direct innovation towards tackling the system’s most pressing challenges, such as reducing waiting lists, tackling health inequalities and improving the uptake of medicines.

The link between our nation’s health and our economic prosperity is clear. Long-term sickness is keeping 2.8 million 16–64-year-olds economically inactive. People with more than one health condition are twice as likely to take sick days or have lower productivity, and health inequalities are a major contributor to lower growth, lower productivity, and weaker labour markets in regions and devolved nations. But it doesn’t need to be this way.

Health innovation is vital to improving the nation’s economy as a whole, but it is also driving economic growth

through supporting a thriving life sciences sector. Investing in health innovation is investing in the economy.

To deliver the Government’s ambitions for health and growth, there needs to be a much greater focus on the implementation of innovation. Our current health system challenges are not invention challenges. We already have an evidence-based, proven pipeline of thousands of innovative solutions. We need to develop a culture of stealing with pride where we can work better with parts of the NHS that have developed and adopted world class solutions to common health challenges.

That requires the capacity, capability, and incentives to adapt, adopt and embed innovation into our local systems. Implementing proven innovative pathways at scale has to be the direction of our future.

As the NHS across the country, adapts to implement the 10 year plan, we look to the future and our role in delivering local change faster and more widespread that will have a lasting national impact in our health and care system, driving economic growth in all areas of England, and innovation to all people.



Richard Stubbs
Chair, Health Innovation Network

Innovators »



C2AI's platform interrogates hospital data systems to facilitate better patient prioritisation, reduce emergencies and reduce waiting lists, safely. It saves 1 excess bed day per patient, including an 8% reduction in A&E attendances, 54% reduction in avoidable harm, 35% conversion to day case, 27% reduction in waiting list in the first six months of deployment and more than 60 minutes of consultant surgeon administrative time saved per patient per year.

Supported by
11
health innovation
networks

8%
reduction in
emergency
admissions.

Unique Precision Healthcare Analytics

Driving Improved Outcomes and Cost Reduction



c2-ai.net



C the Signs, founded by NHS doctors, is an AI-driven platform transforming early cancer detection.

Used in over 1,500 GP practices across England, it has identified 45,000 patients with cancer across more than 50 types with 99% sensitivity, helping clinicians detect cancer earlier and improve patient outcomes across the NHS.



Analogue to digital



Hospital to community



Economic inactivity

Supported by

3

health innovation networks

It has identified

45,000

patients with cancer.

pinpoint



Analogue to digital

Supported by

3

health innovation networks

PinPoint are building a new generation of tools for cancer detection – an AI upgrade to blood testing that predicts a patient's risk of cancer when they first present with symptoms.

Intelligent triage developed with the NHS for the NHS. The PinPoint Test promises a more cost-effective, focused and impactful urgent cancer referrals system.

Intelligent triage developed with the NHS for the NHS.

The most intelligent way to cure cancer.

A cancer prediction system that finds cancer at the earliest, most curable stage – improving survival and helping people live longer, healthier lives.

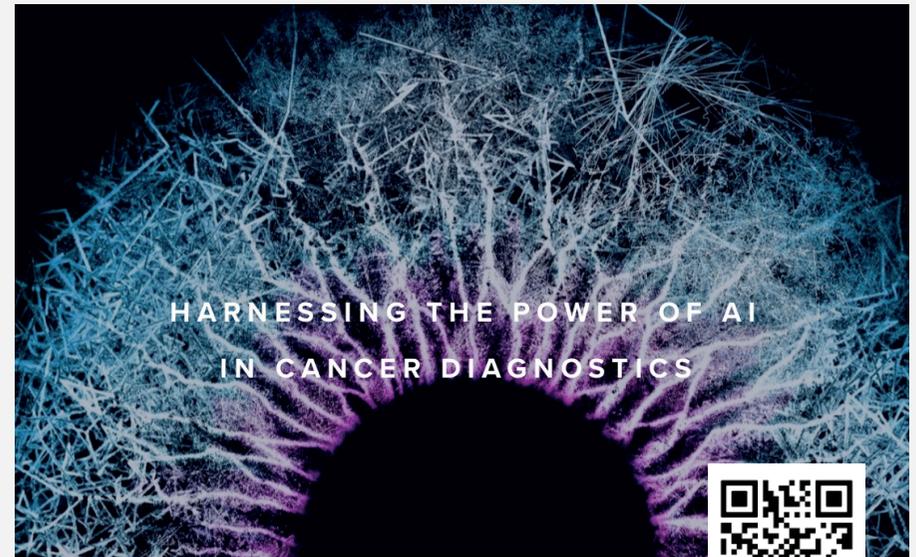
The science

The technology



cthesigns.com

HARNESSING THE POWER OF AI IN CANCER DIAGNOSTICS



pinpointdatascience.com

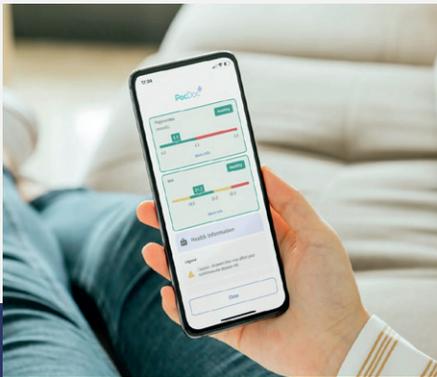


We're advancing preventative care by making it easier and faster for people to test for chronic diseases.

Analogue to digital Hospital to community Economic inactivity

Supported by **5** health innovation networks

PocDoc is the future of point of care.



27 million lives are lost each year to preventable diseases*



pocdoc.co



Analogue to digital Hospital to community Economic inactivity

Supported by **15** health innovation networks

An estimated saving of **£38.5m** for the NHS.

QbTest is an innovative digital solution to improve the quality of evidence in ADHD, bringing much needed objectivity to what has previously been a subjective process. The additional benefit is faster clinical decision making, releasing significant clinical capacity that can be redirected for waiting list initiatives and treatment follow-up appointments.

As part of the NHS National programme, three quarters of all NHS trusts that provide ADHD services have adopted the innovation and since April 2020 more than 77,000 children and young people have benefited, releasing around 95,000 hours of clinical capacity, with an estimated saving of £38.5M for the NHS.

Market leading solutions for ADHD diagnosis and treatment

Clinically researched software, ADHD tests, and expertise to help you achieve positive outcomes for your patients

Get in touch

Metric	Qscore
Reaction Time Var	1.5
Omission Error	2.7
Reaction Time	1.7
Normalised Var	0.7
Commission	1.1
Anticipation	1.1

qbtech.com





An ambient voice technology programme that uses generative AI to support clinicians during consultations.

Tortus are being supported through the NHS Innovation Accelerator and the DigitalHealth.London Accelerator.

“Our goal is to ensure that clinicians can spend less time on administration and more time with their patients.”

Dr Dominic Pimenta,
Chief Executive at TORTUS.



Analogue
to digital

Supported by

15

health innovation
networks

We believe
in science
done right.

AI for Every Clinician

TORTUS is a secure, compliant AI platform that interfaces with your EHR and saves you time.



*DCB0120, HIPAA & GDPR, DTAC and CyberEssentials Plus certified. We're approved in multiple NHS organizations, and we are a Crown Commercial Supplier, on multiple frameworks.

tortus.ai



Your local health innovation network >>



Health Innovation East

Health Innovation East 

We are the innovation arm of the NHS in the East of England, and we believe that great ideas only make a difference for our health when they are put into practice. We serve a population of over five million people and are proud to work with our region's world-leading health technology and life sciences companies to bring their innovations to patients.

Over the last 12 months we have significantly increased our portfolio of work. Notable successes this year include our continuing focus on cardiovascular disease, where our work helped an additional 50,000 people to have their blood pressure or cholesterol treated to NICE target levels.

We doubled the amount of external financial investment accessed by the companies we work with and we greatly expanded our work in health informatics, particularly with our role in the consortium designing, building and operating the NHS Secure Data Environment (SDE) for our region. The SDE offers approved researchers, working on approved projects, secure access to anonymised NHS healthcare data for research purposes.

“ We serve a population of over five million people and are proud to work with our region's world-leading health technology and life sciences companies to bring their innovations to patients. ”



Piers Ricketts
CEO, Health Innovation East

£51.3

million of external investment secured by companies we have worked with this year

1,000+

patients were prescribed the lipid-lowering therapy inclisiran



Health Innovation East Midlands

Health Innovation East Midlands 

We continued to deliver high quality innovation support to organisations across the East Midlands' five integrated care systems and beyond. We held Innovation Insights webinars and events, and provided toolkits and expert resources, including our free, updated Innovation Academy.

We supported the ICSSs, the East Midlands Mental Health & Learning Disabilities Alliance and the East Midlands Radiology Consortium (EMRAD) to each recruit a specialist Innovation Lead to increase capacity and capability to bring innovation to patients.

Some of our key programmes, at different stages of development and adoption, covered: Rehabilitation in hospital, Addressing problematic polypharmacy, Medicines safety (opioid reduction), Transforming wound care, Identifying and optimising treatment for cardiovascular disease, Using innovation to target healthcare inequalities, providing safer care and ADHD diagnosis.

We also supported innovators to further develop their products and their businesses, access funding and evaluate their product's effectiveness in real world environments. We are looking forward to building on these impacts in 2024-25.

“ By bringing together innovators from within the NHS, from our universities, and from commercial and industry partners we can act as a catalyst for constructive change. ”



Nicole McGlennon
Managing Director,
Health Innovation East Midlands

£51.4m

value to the health, care and technology sector achieved against funding of £4.99m

620,000

patients positively impacted through our work



Imperial College Health Partners Health Innovation



In 2023/24, ICHP supported North West London to mobilise three Missions:

- **Optimising care for long-term conditions (starting with Cardiovascular Disease)**
- **Enabling more days at home**
- **Supporting children and young people's mental health**

This approach has supported more effective integration of national innovation priorities and support to innovators and industry. Of the 132 innovators supported through ICHP's Innovation Exchange function, 75 offered solutions relevant to the Missions and received bespoke support. We're strengthening the system's ability to adopt, adapt, and scale innovation that works in four distinct ways:

- **Data and insights:** Harnessing NW London assets (including WSIC and Discover-NOW datasets) to best enable the use of real-world health data for research.
- **Public and patient involvement and engagement:** Involving 58 service users in the Mission 'Discovery' phase.
- **Evaluation:** Supporting the development of a NW London Evaluation Consortium to deliver a unified system-level approach to evaluation.
- **Enabling clinical innovation leaders:** Including recruitment of six Innovation Fellows.



“As the innovation partner for North West London, ICHP is working closely with our Integrated Care Board, NHS providers, local authorities, and universities – tackling some of our biggest health challenges both locally and nationally.”

Dr Dominique Allwood
Chief Executive Officer



Health Innovation Kent Surrey Sussex



The 2023-24 year has been transformative for Health Innovation Kent Surrey Sussex (KSS), with significant changes and achievements. Our key programmes covered multiple disease areas and focus areas, including patient safety, cardiovascular disease, polypharmacy, and health inequalities.

We've continued to build strong partnerships with local ICSSs, leading to impactful initiatives such as improved cholesterol screening in Surrey, an evaluation of mental health practitioners in Kent and Medway, and a comprehensive women's health assessment with NHS Sussex.

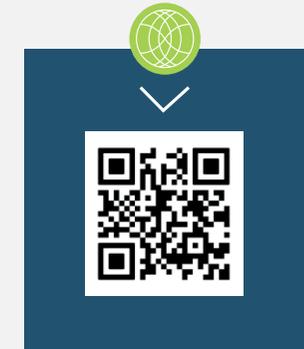
Our support for innovators has contributed significantly to economic growth. Through our NIHR Applied Research Collaboration connection, we've advanced research in dementia, social care, primary health, and children's and young people's mental health.

We're proud to deliver programmes in partnership with citizens, NHS and academic organisations, local authorities, the third sector, and industry. A huge thanks to everyone for making this year so successful. We remain committed to driving innovation, improving patient care, and contributing to economic growth in the health sector.



“We remain committed to driving innovation, improving patient care and contributing to economic growth.”

Professor Hatim Abdulhussein
Chief Executive Officer, Health Innovation Kent Surrey Sussex



Health Innovation Manchester



2023-24 marked Health Innovation Manchester's seventh year of operations. It has been our most significant yet in terms of delivery of impact from our innovation activities.

It has also been a pivotal year strategically – from strengthening our Board, augmenting our executive team, to launching the new Greater Manchester (GM) Digital ICS strategy and co-designing our new three-year strategy. All of this supports our vision - to be world leading in improving the lives of local people, transforming care and boosting the economy through innovation.

Four priority areas that have delivered the greatest impacts to the health and care system this year include improving the diagnosis and treatment of cardiovascular disease, the development of a more effective obesity pathway, the wider deployment of virtual wards to enable more people to be treated at home, and optimising the GM Care Record to give clinicians better access to information to support better informed care for patients.

Enhancing the GM Care Record to inform patient care:
over 21k healthcare professionals are now accessing the Record for over 270k patients each month. This represents a 21% annual increase in usage.

Increasing access to novel therapies for people with high cholesterol:
by the end of March 2024, 1,180 at-risk people have received a novel therapy to lower their cholesterol to prevent a heart attack or stroke. In this group, 496 people have since been reviewed and their cholesterol has been reduced by 44%.

“ Research and innovation, and record levels of industry investment, are providing the tools with which we can tackle health challenges, with massive advances in artificial intelligence, precision medicine and other novel technologies – the opportunity and the need to partner with industry has never been more pressing. ”



Professor Ben Bridgewater
Chief Executive, Health Innovation Manchester



Health Innovation North East and North Cumbria



It has been an exciting year for Health Innovation North East and North Cumbria (HI NENC) as we embarked on our third, five-year commission from NHS England reflecting the crucial role innovation continues to play within the healthcare system.

HI NENC was also delighted to welcome Professor Dean Fathers as our new Board Chair in December 2023. Our vision remains the same and it is a privilege to work with our partners to:

- accelerate innovations that improve population health;
- support our economy;
- improve patient safety; and
- support the reduction of health inequalities.

Working with the NENC ICB and becoming embedded within the regional ecosystem has been a particular highlight. We have launched several joint initiatives such as the regional Health and Life Sciences Pledge, through which over 150 organisations have pledged to unite in our ambitions.

Please view the HI NENC Impact Report which provides a comprehensive overview of our initiatives, achievements and the measurable benefits we have delivered over the last year.

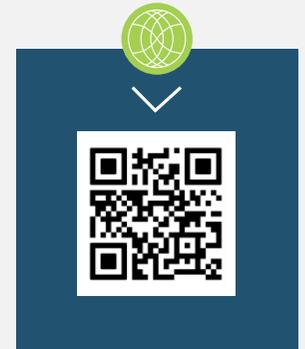
Heart health checks were delivered to approximately **500 people** from under-served communities. Over **60%** tested had an abnormal result and were referred to their GP for a lipid medication review.

Over **150** regional organisations have joined the **Health and Life Sciences Pledge**, which unites Partners across the ecosystem to champion innovation for the health and social care sectors

“ Achieving these goals is only possible by fostering a culture of innovation within the NHS, which HI NENC proudly champions throughout the NENC region and delivers via our Innovation Pathway. ”



Dr Nicola Hutchinson
Chief Executive Officer, Health Innovation North East and North Cumbria



Health Innovation North West Coast



Our re-licensing last year and that of our partner health innovation networks was an endorsement of the work we've done in the field of healthcare innovation in the last 10 years.

It's a signal to our colleagues in the region that we continue to be their trusted innovation partner. We have built a unique set of skills, enabling clinical colleagues to benefit from a range of new products, pathways and medicines. It's this expertise in spread and adoption which is our unique value proposition.

We've continued to develop innovative collaborations, such as that we formed to tackle the impact of fuel poverty on some of the most vulnerable people in our communities, and built on our relationships with industry to support nearly 300 innovative companies.

Our Chief Executive Dr Phil Jennings is Vice Chair of the Health Innovation Network, and it's part of his role to explore ways to remove obstacles to health innovation.



“ We have built a unique set of skills, enabling clinical colleagues to benefit from a range of new products, pathways and medicines. ”

Dr Phil Jennings
Vice Chair, Health Innovation Network / Chief Executive, Health Innovation North West Coast

1,300

people supported in a project to mitigate the impact of fuel poverty on people with respiratory conditions

£7.9m

of investment secured for innovative companies



Health Innovation Oxford and Thames Valley



High-quality care can only be delivered across healthcare systems by embracing the potential of technology to transform services and care pathways, leading to improved outcomes, safety and experience of patients.

Health innovation networks are uniquely placed to make this happen through our partnerships with regional healthcare systems and the vibrant life science research ecosystem which have strengthened over our first decade.

We also work with healthcare professionals to empower patients, reduce inequalities and maximise the impact, productivity and effectiveness of the skilled but stretched NHS workforce.

We have expanded our capacity for rigorous evaluation to understand the impact of innovations on patient outcomes, giving more support to innovators looking to develop and deploy their innovations in the NHS. This is fuelling growth, both of individual companies and the wider UK economy.



“ More patients are getting the right treatment in the right place more quickly through the widespread deployment of artificial intelligence (AI) to interpret scans in stroke diagnosis. ”

Professor Gary Ford
Chief Executive Officer, Health Innovation Oxford & Thames Valley

AI tech speeds up time-critical intervention following stroke by

50 minutes

Disability reduced with **70%** more eligible patients getting mechanical thrombectomy following stroke



Health Innovation Network South London



We are passionate about digital technology transforming patient care and services, and have led important work to understand the views of 4,138 people on digital tools such as the NHS App, digital mental health apps and virtual wards.

Our regional and national work in automation and Ambient Voice Technology demonstrates how we are informing the use of AI to tackle issues including productivity and workforce burnout. Additionally we concluded the spread of our national Early Intervention Eating Disorders programme to all 54 eligible Trusts, with 2,430 patients receiving treatment and saving the NHS an estimated £10.9m.

We started our UK-wide commissions: Mindset, looking at mental health immersive technology, and Accelerating FemTech, supporting innovators addressing key challenges in women's health. Ten companies from our first FemTech cohort were awarded a share of £3m Biomedical Catalyst funding.

We also strengthened links with local partners to address regional priorities, with 96% of our cardiovascular fellows agreeing their practice or primary care network has improved how it manages cardiovascular care.



“Our work focuses on accelerating innovation and transformation to benefit patients, populations, health and care systems.”

Rishi Das-Gupta
Chief Executive, Health Innovation Network
(South London)



Health Innovation South West



As innovation adoption experts, in 2023-24 we have delivered in-depth support to more than 100 health and care projects, centred on the South West's key clinical missions, including cancer and long-term conditions, using cutting-edge technologies.

We have worked with over 200 innovators, supported 14 real-world evaluations, and facilitated the delivery of 15 innovations into real-world settings.

Our work with BRAVE AI, for example – an artificial intelligence app that predicts a patient's risk of emergency admission to hospital – has led to it being deployed in over 30 sites by NHS Somerset.

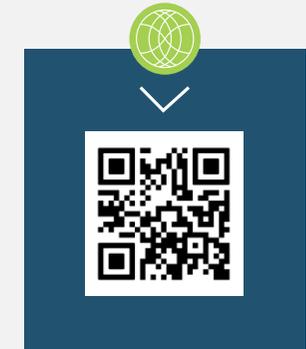
A key development with our NHS and academic partners across the South West has been the creation of the Peninsula Research and Innovation Partnership.

Our collective vision is to drive impact for rural and coastal health and care, and we will now focus on amplifying the influence of the Partnership regionally and nationally to reduce health inequalities in our under-served communities.



“A key development with our NHS and academic partners across the South West has been the creation of the Peninsula Research and Innovation Partnership.”

Jon Siddall
Chief Executive Officer, Health Innovation South West



UCLPartners Health Innovation



Over the last year we have been developing our approach to innovation. The priority disease areas we have chosen are some of the big health challenges of our time, driving mortality and poor health in our local community and more widely.

We work with industry, academia, innovators, voluntary and charitable organisations, and our local community. Our work this year has focussed on improving **adolescent mental health, cardiovascular disease** prevention, holistic support for **cancer patients**, and **asthma control for children and young people**.

We also work with Moorfields to act as an innovation partner for their eyecare pathway transformation work which we help to develop and scale. Our emerging work in **dementia** is bringing together experts in the field to define challenges and opportunities on the horizon with the potential introduction of disease modifying therapies. Looking at the wider impact on our health, we have been supporting the NHS to move a step closer to **net-zero** and focus on the **socialdeterminants of health**.



“ Over the next year we will continue to focus on providing sustainable solutions for the biggest health challenges, designing care to meet the needs of the diverse communities across London, Essex and beyond. ”

Dr Chris Laing
Chief Executive Officer, UCLPartners

225

companies or innovators helped to get their innovations adopted, resulting in £5.8m sales or new investments

800k

patients covered by the CVDAction demonstrator programme, helping to reduce the risk of heart attacks and strokes



Health Innovation Wessex



In 2023, we marked ten years since the inception of health innovation networks, with the announcement of a further five year licence from NHS England. Alongside the new licence came a clearer name for our network, and we welcomed fresh leadership with Nicola Bent stepping into the role of CEO to drive us in continued success.

Our teams have worked closely with commissioners and our local partners in integrated care systems, industry, research and academia to offer co-produced solutions to meet healthcare challenges and priorities and to grow local prosperity.

We have provided almost 5,000 hours of support to innovators, supported innovations contributing to early stage diagnosis of cancer, delivered training in medicines optimisation and cancer education to NHS staff through our expert teams and our partner organisations, helped 340 people in under-served communities to receive blood pressure monitoring and identified several hundred new patients with a genetic condition causing cardiovascular disease.

304

people from under-served communities receiving blood pressure monitoring at outreach events, with over 33% referred for further care

4,838

hours of support provided to Wessex innovators



“ Adopting innovation creates transformational change, and we have bold ambitions to build on our contribution to healthier, longer lives for our communities in Wessex. ”

Nicola Bent
Chief Executive, Health Innovation Wessex

Health Innovation West Midlands



2023/24 marked an important milestone for us, with the Government and NHS England's decision to re-licence England's 15 health innovation networks for a further five years.

The healthcare sector continues to be a highly dynamic and evolving environment and the West Midlands has the fastest growing population in the UK. It has seen an increase by 40,000 in the last year and remains the second largest population in the UK.

In November 2023, our project 'West Midlands Managing Deterioration in Care Homes Safety Improvement Programme' was highly commended in the 'Provider Collaboration of the Year' category at the 2023 Health Service Journal (HSJ) Awards. It has been recognised as a national exemplar and HIWM is continuing to support NHS England by establishing a national change package in line with the deterioration framework. It is now widely known as the 'West Midlands Model'

“ Much has been achieved over the past 12 months. We have been involved in developing exciting projects such as a Point of Care Ultrasound (POCUS) Programme. POCUS aims to support clinicians and increase understanding across the industry of how it can transform unchallenged traditions in healthcare. ”



Tim Jones
Chief Officer, Health Innovation West Midlands



Health Innovation West of England



We've become known for our joined-up approach to transformation and innovation, working in genuine partnership with our local health and care systems, VCSE and life sciences sector.

In 2023/24 we co-created an ambitious five-year strategy, setting out a clear roadmap for how we will discover, develop and deploy proven innovation together to achieve better and fairer health outcomes for all our communities.

Our commitment to supporting a vibrant health innovation ecosystem has never been more evident. This year, we successfully supported 235 innovators, offering potential benefits to patients and health systems alike.

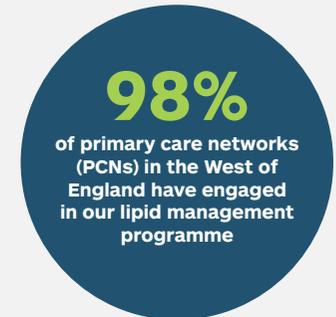
We are proud of the impact our programmes have on patient care. The PreCiSSion care bundle has now been used to treat 6,000 mothers following caesarean births in the West of England, while our non-invasive ventilation care bundle has saved at least 100 lives.

And through our unique Black Maternity Matters programme, we are supporting an exciting movement to improve maternal health outcomes for Black women through anti-racist education and practice.

“ This year, we successfully supported 235 innovators, offering potential benefits to patients and health systems alike. ”



Natasha Swinscoe
Chief Executive Officer, Health Innovation West of England



Health Innovation Yorkshire and Humber



Maintaining strong partnerships with our ICSSs is a top priority: our staff are embedded into organisations to better accelerate the spread of innovation and improve patient outcomes.

Through the Innovation for Healthcare Inequalities Programme (InHIP), we're working with partners to improve the diagnosis of cardiovascular disease, diabetes, and uncontrolled asthma amongst our most deprived communities.

We're addressing regional health and economic disparities through our 'YHealth for Growth' campaign. This year we published a white paper setting out 10 recommendations for regional and national leaders on how to tackle rising health inequalities while also growing our economy.

We collaborate with the combined authorities in our area to help stimulate economic growth by supporting both UK innovators with their export ambitions and global innovators to import their HealthTech solutions, ensuring people in our region benefit from the best innovations first.

Our InHIP projects engaged with over **4,400** under-served patients in the community, diagnosing **1,072** with a condition and referring them for treatment.

Our Propel@YH digital accelerator supported **39** international innovators leading to **£90k** being spent in the local economy and **9** companies establishing bases in the UK.



“ Collaborating with our stakeholders is critical to achieving our ambitions for Yorkshire and Humber and has enabled us to drive the adoption of innovation over the last 12 months. ”

Richard Stubbs
Chair, Health Innovation Network /
Chief Executive, Health Innovation
Yorkshire & Humber



These locally focused organisations are a **strong, national network** that delivers greater impact, together.

3,500

people from under-served communities are benefiting from NICE-recommended medicines and medical technologies as a result.



Almost **1,200** babies' lives have been saved through maternity and neonatal safety interventions.

More than **1,228,000** patients have benefitted from our national programmes and initiatives.

£20.7m investment leveraged into Net Zero innovations.

Over **1,300** jobs were either created or safeguarded in companies we supported.

