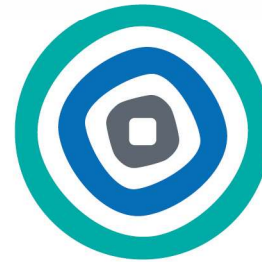




European Union
European Regional
Development Fund



European Innovation
Partnership on Active
and Healthy Ageing
REFERENCE SITE



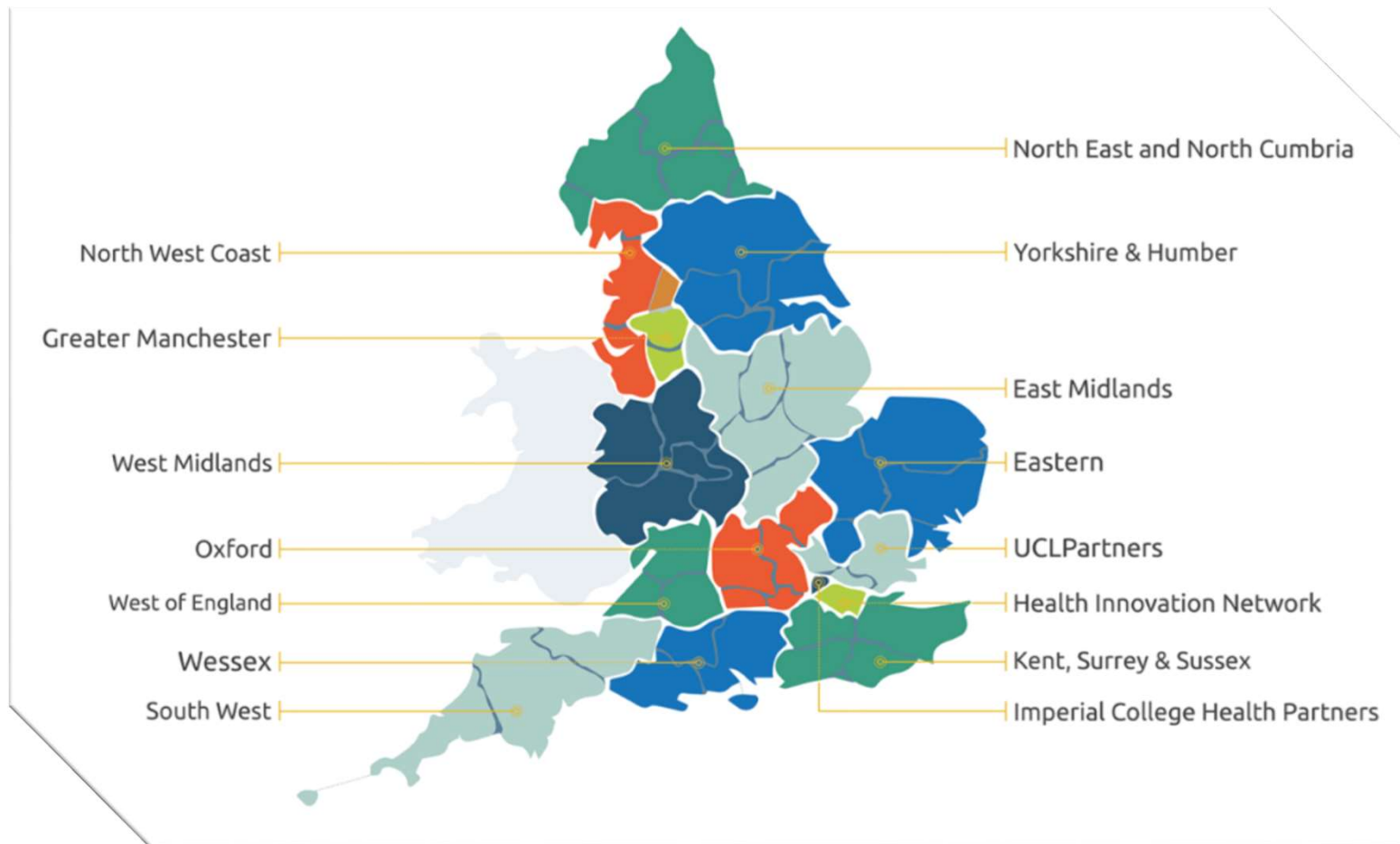
INNOVATION AGENCY

Academic Health Science Network
for the North West Coast

Delivering in health through an Academic health Science Network

Andy Shakeshaft
Associate Director

AHSNs – Improving Health & Supporting Economic Growth



European Union
European Regional
Development Fund



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English NHS financial context

- **The world's largest public, integrated health service**
- NHS spend £120.15 billion per annum
- AHSNs cover all buyers and all providers
- 209 buyers (clinical commissioning groups)
- 258 providers
- 7,875 GP practices (with many GPs in each practice)
- 853 for-profit and not-for-profit independent sector providers, giving care to NHS patients
- Each AHSN covers a population of between 4 and 6 million people

Why AHSNs are unique

Delivering benefits to our local members

- Aligning to members' priorities
- Support local delivery of FYFV e.g. New Care Models & STPs
 - Collaboration with local transformation & improvement partners

Spreading innovation at pace & scale / supporting companies to grow

- Promoting economic growth
 - Diffusing innovation
- Improving Patient Safety

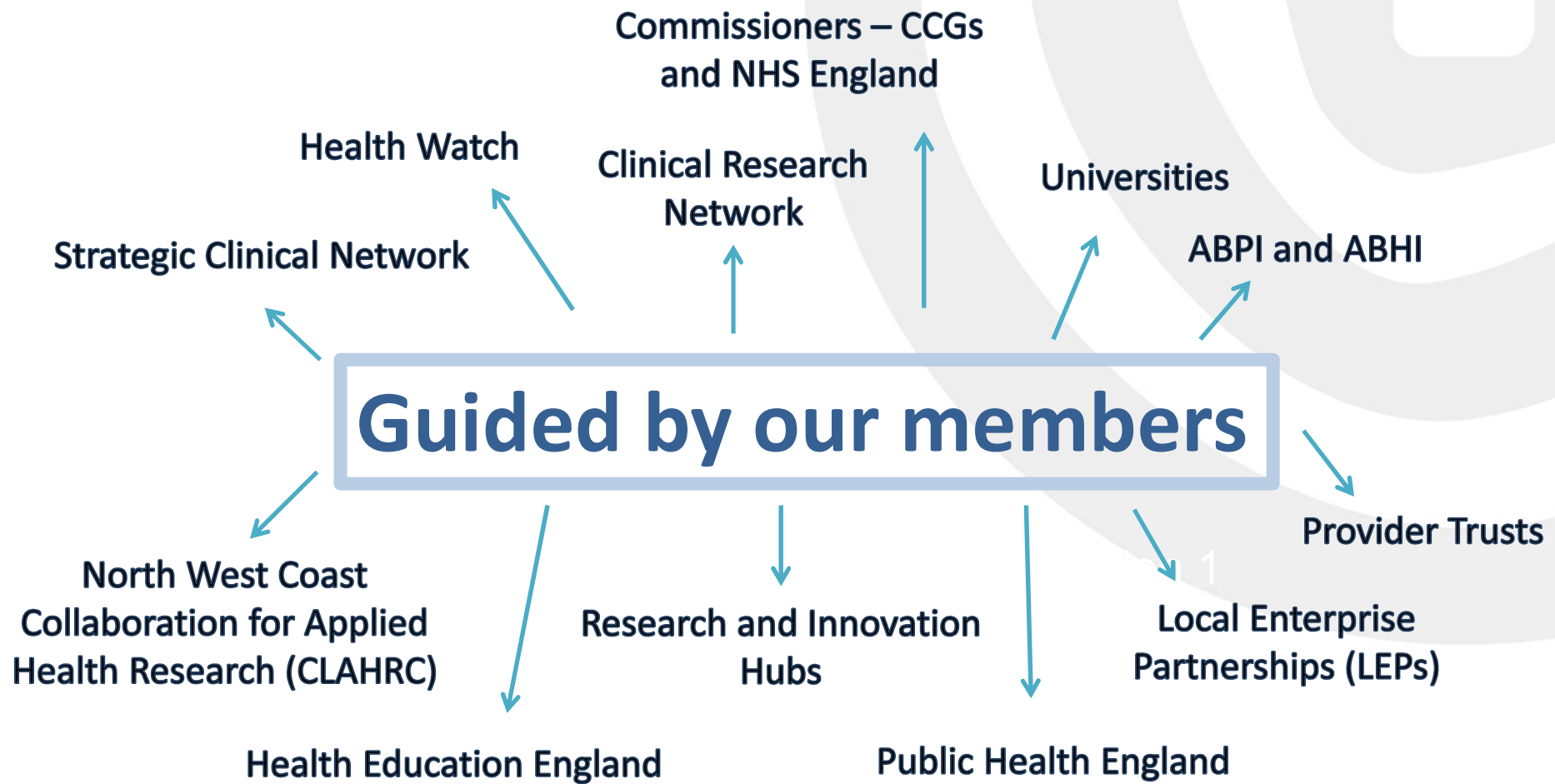
Transforming Health, Generating Economic Growth

Supporting the NHS to deliver a step change, e.g.

- NHS Innovation Accelerator
 - Test Beds
- Personalised medicine / Genomics Medicine Centres

Pan-AHSN collaboration

- Mobilising our shared expertise & resources to support national spread at pace & scale (e.g. AF, 'Flo' & 'STarT Back')



Measuring impact for the region and for Britain

- Improved health outcomes for a lower cost
- Increased economic growth for the North West Coast and beyond, e.g. jobs created, contracts secured
- Equal access to health innovation for citizens across the North West Coast
- Development of networks and cross-sector collaborations to improve cross-sectoral impact on health and the economy
- Increased funding and talent into the North West Coast



The Innovation Pathway

BESPOKE SERVICES COVERING THE ENTIRE INNOVATION LIFE CYCLE FROM CONCEPTION OF AN IDEA THROUGH TO ITS EVENTUAL REALISATION OF COMMERCIAL SUCCESS.



AHSNs help companies & innovators navigate a fragmented landscape

European Programmes

- Active member of ECHAlliance, a network of connected health ecosystems in over 30 countries
- STOPandGO – a €17m project to procure 7 new services through PPI processes in 4 different countries – local investment in digital prevention technologies
- ENSAFE - €2m project to support prevention and self care for older people in 4 different countries
- ALTAS - A € 360k project to design an e-learning package for Assisted Living Technologies across Europe
- EIT KIC Health – € 2.1 billion for 140 organisations to develop products and services for health



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Supporting economic growth



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- **£6.5 million secured** to support small and medium sized (SMEs) life science businesses to develop health innovations from which citizens across the region will benefit.
 - Six staff have joined the Innovation Agency commercial team, and partners have recruited a further six staff, to help 282 SMEs access the healthcare market; key outputs will include:
- - 34 new products launched;
 - 74 new products in development;
 - 49 new SMEs will be supported
 - 4.1 million citizens in the North-West Coast region will benefit from health innovations.

Supporting economic growth 2

- Investment by the Innovation Agency of around £1million has enabled **£100 million of additional funding** to be attracted to build innovation hubs and business incubators across the region so that life sciences SMEs can locate in the region, develop products, create jobs and improve health
- This investment led to the development of the following facilities:
 - Health Innovation Campus, University of Lancaster, due to open in 2019
 - Liverpool Bio-Innovation Hub at University of Liverpool - opened February 2016
 - Alder Hey Research and Education Centre - opened October 2015
 - Alder Hey Innovation Hub for digital and sensor technologies - opened March 2016
 - Centre for Integrated Health Science, Chester – opened April 2015
 - Accelerator Hub, Royal Liverpool & Broadgreen University Hospital – due to open in 2017
 - Chorley Digital Park – due to open in 2018





National : Connected Health Cities

£4m invested in the development of a Learning Health System – the Connected Health Cities programme. Emergency unplanned care (**COPD and Epilepsy**) and **Alcohol related care** are the care pathways that we are focusing on in the region. The work comprises of:

- A collaboration with the Innovation Agency, University of Liverpool, Lancaster University and Aimes Grid Services
- The development of linked health related data sets
- Analysis of the care pathway to identify improvements across the system
- An integrated plan for the workforce to support digital education
- Public engagement and patient and citizen collaboration
- Create a sharing environment that enlists the trust, and active involvement, of NWC citizens through the Northern Citizen Jury and the North West Coast Citizen Senate.



National: Atrial Fibrillation

- +10 000 people with AF in NWC not receiving optimal treatment
- 5 fold risk of having a stroke compared with rest of population
- 30 MyDiagnostick and 130 Kardia devices deployed in GP surgeries
- 2000 pulses tested, 60 abnormal pulses detected, reducing the likelihood of stroke
- 256 strokes prevented through AF detection, saving £5.6m



Regional: Refer to pharmacy

‘Refer-to-Pharmacy’ sees patients who are being treated in its hospital visited by a hospital pharmacist or pharmacy technician and an electronic referral appointment set up with the community pharmacist with all their medication information for when they return home, to ensure that they are taking their medicines correctly.



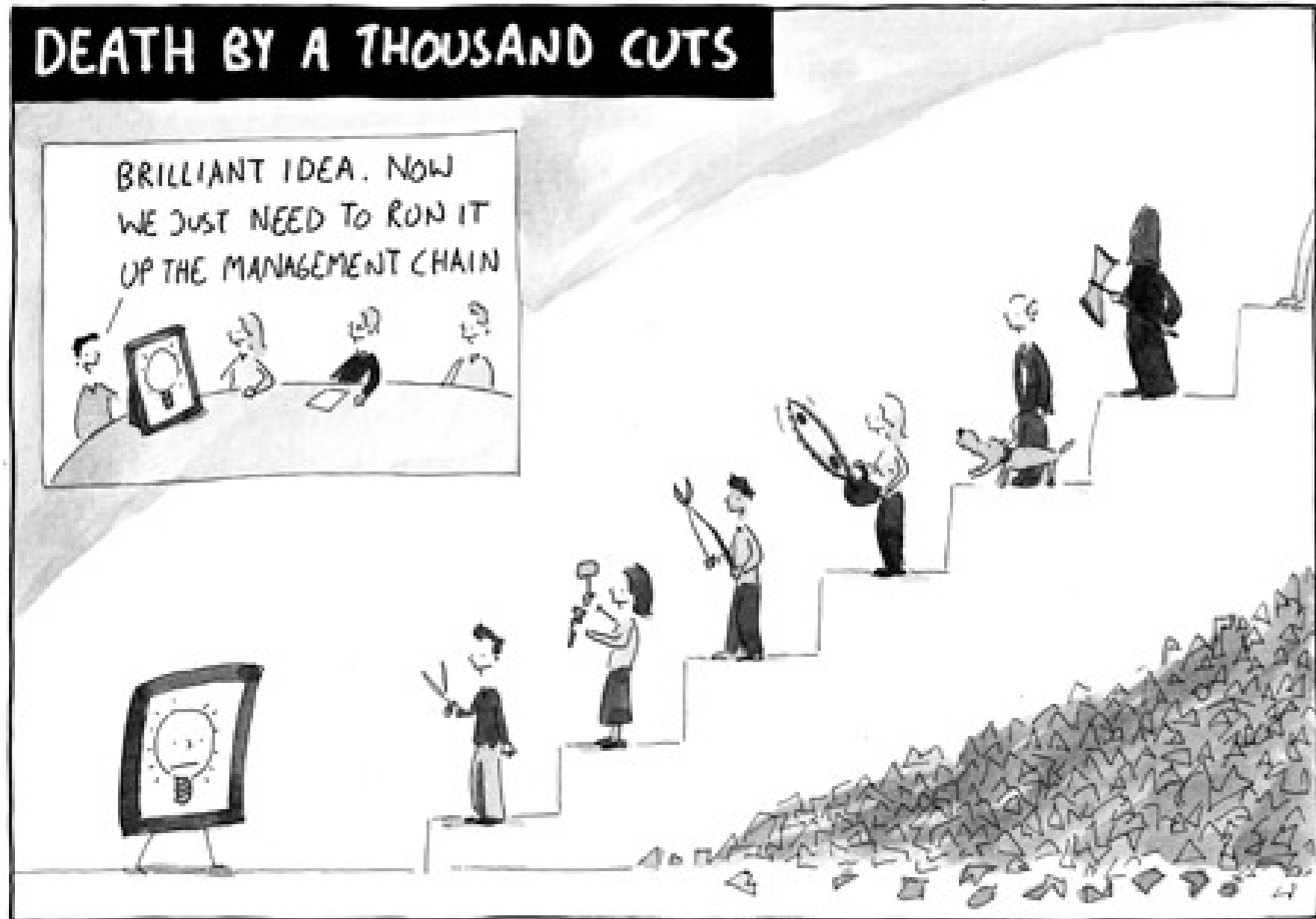
A study conducted at Newcastle NHS Trust showed* that patients referred to the eTCP pathway were 2.8 times less likely to be re-admitted to the hospital inside and outside of the 30 day window post discharge, thus reducing the cost of re-admission to both the NHS trust and the commissioning CCG.

East Lancashire teaching Hospital have reduced their hospital readmission rate by 1% or 60 patients per year and saving £2m pa.

A rollout across 12 hospitals is planned with a predicted saving of £3m pa

**H Nazra et al, A new Transfer of Care initiative of electronic referral from hospital to community pharmacy in England: A formative service evaluation; BMJ Open*

DEATH BY A THOUSAND CUTS



Investment to support change culture -70 Innovation Scouts

Champions of change, Creating a culture of innovation; part of the AHSN regional network for co-creating new technologies and systems



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National Innovation Accelerator

18 Innovation Fellows – innovative health technologies and services into action



Francis White spreading the use of Cardia from AliveCor, the UK's first mobile heart monitor



Dr Penny Newman
Health Coaching



Dr Lloyd Humphries
Patient Knows Best



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What our partners say:



"Our collaboration with the AHSN Network has helped Peacocks Medical Group to broaden our communication with NHS surgeons, physiotherapists and other clinical professionals, along with providing assistance with research funding and valuable guidance on clinical trials. The teamwork and association with the AHSN Network has also been of tremendous benefit to our product range from a business development and market research point of view. We have also been able to access intellectual property (IP) assistance and internal IP auditing, as well as improving internal knowledge of this area."

Paul Scott, Business Development Manager, Peacocks Medical Group



"Being able to utilise the varied skill set of the AHSN Network has given us invaluable insight into the level of detail we have needed in order to get myCOPD in front of commissioners across England. The AHSN Network has helped us with access to funding to help support development and generate evidence of the product. They also provided us with opportunities to showcase myCOPD at nationally recognised events. We are looking forward to continued working with the AHSN Network, which will provide us with a way of engaging our local STP."

Ian Thompson – Strategic Director, My MHealth Limited



"The AHSN Networks have been instrumental in helping to open the right doors of the right people. This in turn is helping to accelerate new models of care in stroke prevention programmes, which is fuelling our success and growth within the NHS and beyond."

Tony Boden, CEO of Helicon Health Limited



"The AHSN Network were instrumental in growing our product development offering, by funding a product evaluation as well as introducing us to the innovation team at Alder Hey Children's Hospital and empowering us with knowledge around commercial opportunities."

Lee Omar, Chief Executive Officer, Red Ninja Limited



"Support from the AHSN Network is playing an important role in the adoption of UroLift. AHSNs are uniquely placed to understand the benefits of this clinically proven technology across the entire patient pathway and local health economy. They have been instrumental in brokering the necessary discussions in the local adoption pathway, which have led to patient access to this NICE-approved technology. In particular, we were absolutely delighted that UroLift was selected as an innovation to showcase at NHS Expo 2016. Our presence at this event will help raise national awareness of the technology and further facilitate discussions with key decision makers."

Justin Hall, Vice President and General Manager EMEA, NeoTract Inc.



"The individual innovation scout / champion schemes run by the AHSN Network nurture a culture of innovation, allowing ideas from within the NHS to be harvested, protected and developed. They also support the identification and subsequent adoption of new and improved products by industry. This provides a positive impact upon patient care and provides valuable opportunities for industry."

Russell Watkins, Assistant Director Business, Innovation and Improvement - The Newcastle upon Tyne NHS Foundation Trust



"The AHSN Network has worked hard to support us and allow our innovative digital solutions to be disseminated throughout the region, introducing us to relevant clinical leads in both the CCGs and the Provider arms. In addition, through the Network we have developed overseas links to export the product into other healthcare markets."

Adrian Flowerday, Managing Director, Docobo Limited

Andrew Shakeshaft BSc(Hons), MSc, CEng,
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