

NHS Innovation Accelerator Evaluation

March 2018

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ies institute for
employment
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NHS
The **AHSN** Network England
NHS Innovation Accelerator

What is the NHS Innovation Accelerator (NIA)?

- NHS England initiative delivered in partnership with the Country's 15 AHSNs, hosted at UCLPartners
- Supports delivery of the Five Year Forward View (FYFV) by accelerating uptake of high impact innovations for patient, population and NHS staff benefit
- Aim: to help create conditions and cultural change necessary for proven innovations to be adopted faster and more systematically in the NHS

Evaluation report: introduction

- Independent report conducted by the Institute of Employment Studies (IES) and York Health Economic Consortium (YHEC), and funded by The Health Foundation

Aims:

- To assess the impact of the first cohort of the NIA on Fellows and innovation scaling
- To identify factors influencing current and future innovation uptake in the NHS
- To determine the current and potential impact of the NIA on patients and population health

Methods:

- 100+ stakeholder interviews
- Desktop research
- Economic assessment

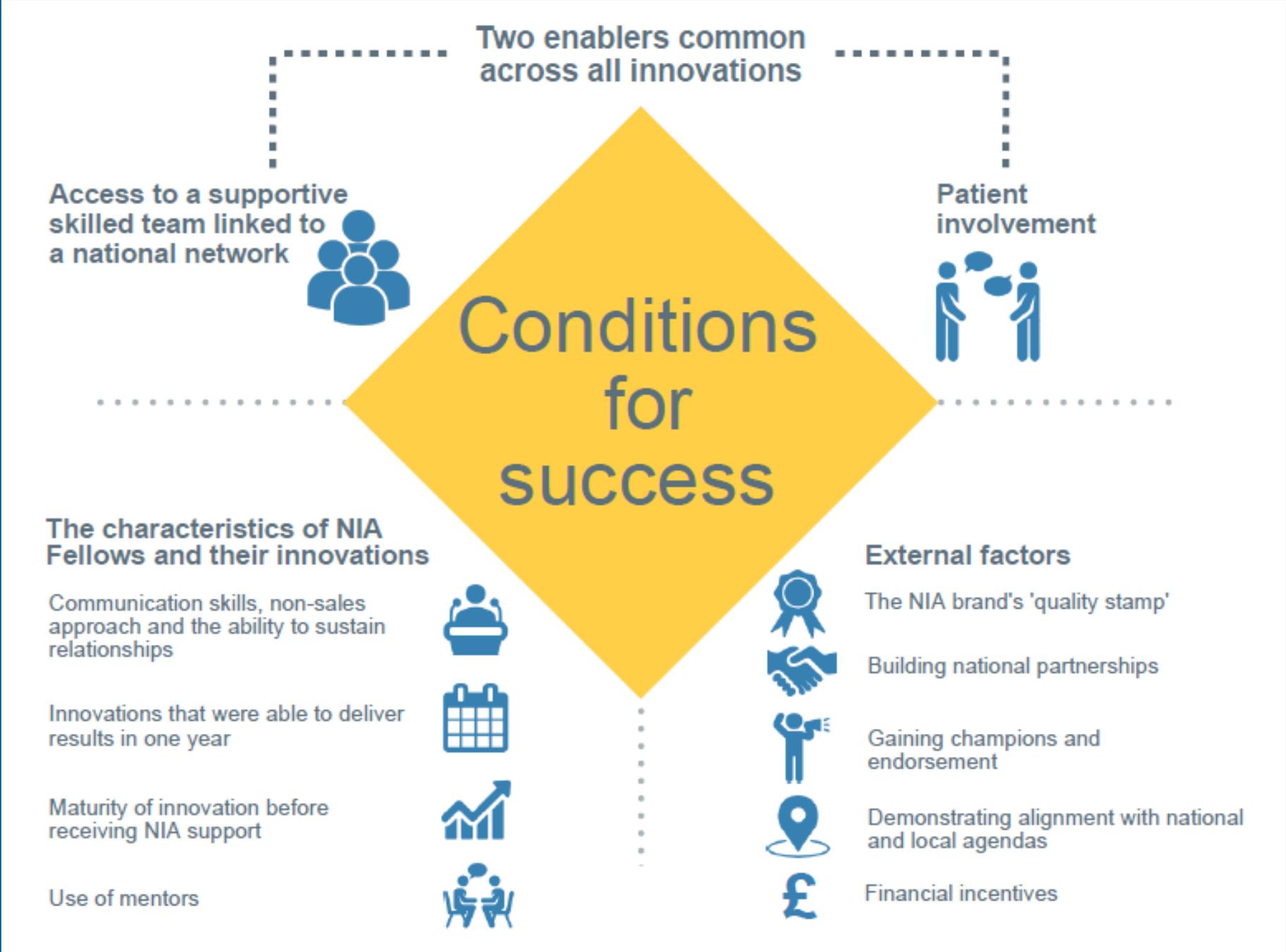
What insights have been captured by the NIA?

Support required by entrepreneurs to help them achieve scale

*“Five elements of **the** NIA made a clear difference to Fellows and how they approached innovation scaling...”*

- Providing access to real world insights
- Creating and using connections with purchasers and key influencers
- Building networks and partnerships
- Personal support to maintain motivation
- Help to focus on the patient or user perspective in refining innovations

Enablers for scaling in the NHS



Overcoming barriers to scaling



NHS financial environment

Solutions:

- Diversification strategy
- Cross-subsidise business through other revenue streams
- Further marketing at specific target audiences
- Reduce sales price



Identifying and involving patients

Solutions:

- Present digital solutions as one - of many - channels
- Engage via patient advocates and patient networks



Capacity and capability constraints

Solutions:

- 'Land and expand': engage individual clinicians in small pilots which address immediate needs, to spark appetite for wider scaling
- Bring in specialist IT support to address compatibility and information governance (IG) concerns



Navigating NHS commissioning

Solutions:

- Diversification strategy
- Focus on most promising activities
- Model benefits that are prioritised by commissioners
- Build data capture and analytics into your innovation

What's the impact of the NIA?

The NIA provides Strategic Added Value...

- Strategic leadership
- Leverage
- Unified national voice
- Driving engagement

Progress in scaling innovations

July 2015

NIA launches with 17 Fellows representing 17 high-impact evidence-based innovations

November 2016

- 419 additional NHS sites using NIA innovations
- £20M external funding secured
- 19 jobs created
- 14 awards won
- Further 8 Fellows join the NIA

May 2017

- 469 additional NHS sites using NIA innovations
- £28.4M external funding secured
- 45 jobs created
- 14 awards won

July 2017*

- 711 additional NHS sites using NIA innovations
- £31M external funding secured
- 51 jobs created
- 20 awards won
- 12 selling internationally

March 2018*

- 964 additional NHS sites using NIA innovations
- £40M external funding secured
- 116 jobs created
- 29 awards won
- 13 selling internationally
- Representing 36 Fellows (further 11 Fellows selected to join the NIA in November 2017)



How is the NIA and its innovations impacting healthcare?

Current benefits

- Improved clinical outcomes
- Patient empowerment through access to healthcare information
- Savings to the UK's health and social care system

How is the NIA and its innovations impacting healthcare?

Wider impact

- People being able to function more effectively in their daily lives
- People able to participate more fully in society with less or minimal support from external health or social welfare agencies
- Reduced purchasing barriers for NHS organisations (e.g. ITT/ITP)
- Enabler for collaborative working to support diffusion of healthcare innovations

Case studies: economic impact (I)

Outcomes:

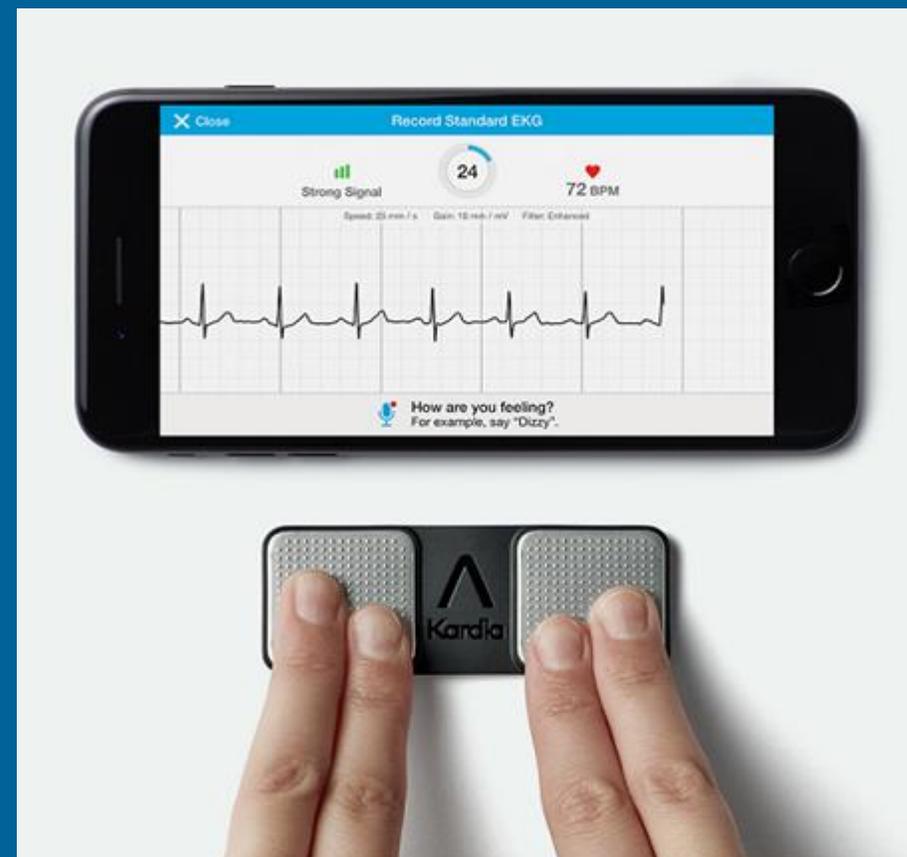
- Avoided healthcare appointments and investigations for AF diagnosis
- Avoided morbidity/mortality, and health and social care costs associated with avoidable stroke
- Improved quality of life for patients

Return on investment (ROI):

- Cost-saving innovation demonstrating estimated net benefit of £896 per patient investigated
- Potential ROI from NHS perspective = 624%
- £242K per year projected savings (scaled benefits at CCG level, e.g. 250 patients tested p/a)
- Over £1.2M projected savings over five years

Innovation:

AliveCor's Kardia Mobile ECG



Case studies: economic impact (II)

Innovation: Episcissors-60



Outcomes:

- Avoided incidence and cost of obstetric anal sphincter injuries (OASIS) and associated repair and complications
- Avoided costs of future caesarean deliveries
- Promotion of safety culture
- Reduced litigation costs

Return on investment (ROI):

- Potential ROI from NHS perspective = 3,056%
- Net saving of £28,382 per 1,000 births accrued from avoided cases of OASIS
- If the 50 Trusts currently using Episcissors-60 have an average rate of episiotomies (15%) and average births per Trust (4,800), this would avoid approx. 4,080 cases of OASIS p/a, with a saving of over £6M

Case studies: economic impact (IV)

Innovation:
Health Coaching



Outcomes:

- Improved patient physical and mental health outcomes
- Improved self-management skills
- Avoided demand on unplanned care
- Avoided unplanned healthcare appointments
- Avoided demand on social care

Cost-consequence and cost-benefit analysis (CCA/CBA):

- £3M p/a indicative savings in a rehabilitation ward due to reduced length of stay and reduced need for social care
- £12K efficiency savings per full-time physiotherapist when implemented in a community physiotherapy setting

Case studies: patient benefit (I)

Innovation: myCOPD

Through a patient group for people suffering from COPD, Austin* heard about a study trialling myCOPD and signed up to take part. Austin was initially apprehensive, as he felt that COPD had taken over his life entirely, and was sceptical of what the NHS could do to improve his situation. When first diagnosed with COPD, he was unable to work and felt suicidal.

Austin believes that using the app has had a tremendous impact on his general health, management of his condition and on his mental wellbeing. He attends a formal pulmonary rehabilitation class once a week, and supplements this with fitness sessions twice a week with instruction from myCOPD. He can check medication against NICE guidelines and receive guidance on dosage and the app identified conflicts between medications. These have been adjusted so Austin no longer experiences side effects such as oral inflammation and loss of taste. He has improved how he uses his inhaler and reduced the number of times he has to visit his GP from 20 times per year to six.

“... I’ve had more information, more reassurance off this app than I’ve had off anybody in the NHS including two doctors... It’s got a technique on it called ‘the huff’, on how to clear your lungs, that my GP had never heard of... I know I sound evangelical but before we had this app we were in the wilderness, no control.”



Case studies: patient benefit (II)

Innovation: Sleepio



Jim* experienced insomnia for 20 years which also had a negative impact on his partner. He heard about Sleepio on a TV documentary, and then used the internet to find more information about it. The strong evidence base behind Sleepio persuaded him to trust the app and give it a chance, after years of unsuccessfully trying other programmes and apps designed to help with sleep problems. He found the app easy to use and provided feedback to improve it.

Jim can now sleep solidly for up to five hours. He feels he can handle the problem much better and knows how to cope with the negative effects of insomnia. He says these improvements are mostly because he used Sleepio.

Case studies: patient benefit (III)

Three years ago Gemma* was given the option of receiving liver tests after meeting with her doctor due to not feeling well, and concern over her alcohol intake. She received worrying results, which 'horrified' her to such an extent that she gave up drinking alcohol permanently. She subsequently underwent regular liver tests, has watched the results improve, and is now showing a normal, healthy liver function which she attributes to giving up alcohol and making positive lifestyle changes. She is now trying to quit smoking.

She also decided to volunteer for a charity which supports people with alcohol dependency problems. Gemma has spoken about her experience on a local radio show, to clinicians at a university and a healthcare conference in order to promote awareness of liver disease. She has now started an NVQ Level 3.

Innovation: Scarred Liver Pathway

"If I hadn't had that screening, I would have carried on drinking and I think now I would be really poorly. I got it in time - my liver has repaired. It has changed my life."



How is the NIA and its innovations impacting healthcare?

Future and long-term benefits

- Benefits to costs and quality of care
- Reduced health inequalities
- NHS service improvement
- Improvements to global healthcare through international scaling

For more information about the NHS Innovation Accelerator (NIA):

Visit the website: www.nhsaccelerator.com

Email: nia@uclpartners.com

Twitter: [@NHSAccelerator](https://twitter.com/NHSAccelerator)