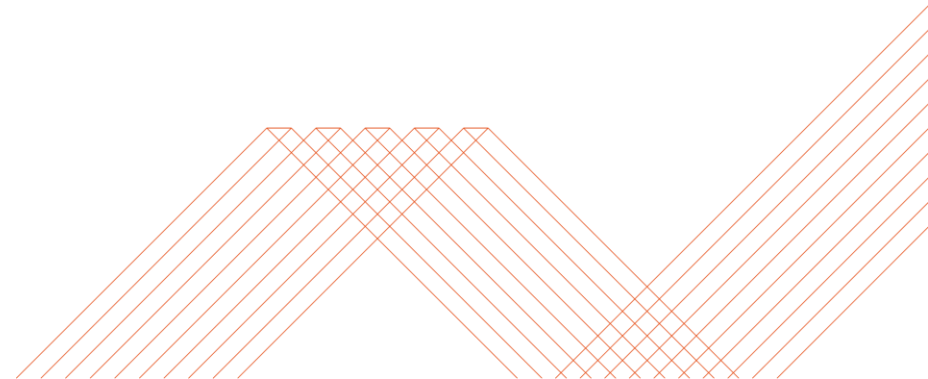


ARC KSS implementation approach

Des Holden BSc MBBS PhD
ARC KSS Implementation Lead
KSS AHSN Medical Director

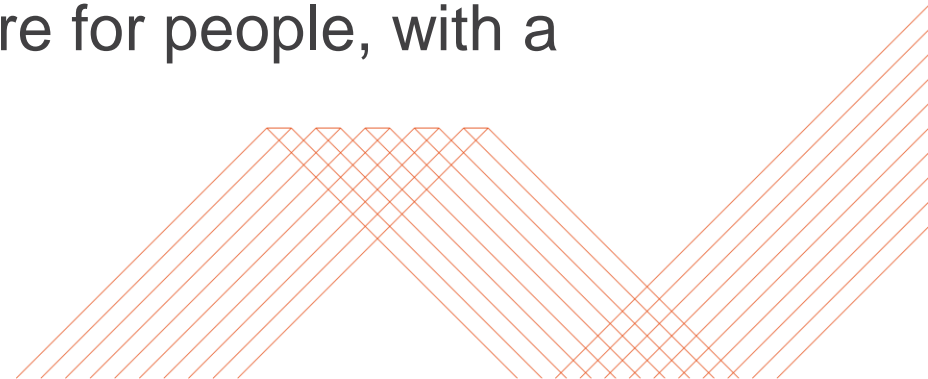
Transforming
lives through
innovation

- Who KSS AHSN are and what we do
- Our approach to change management
- Co-design
- Pull as well as push



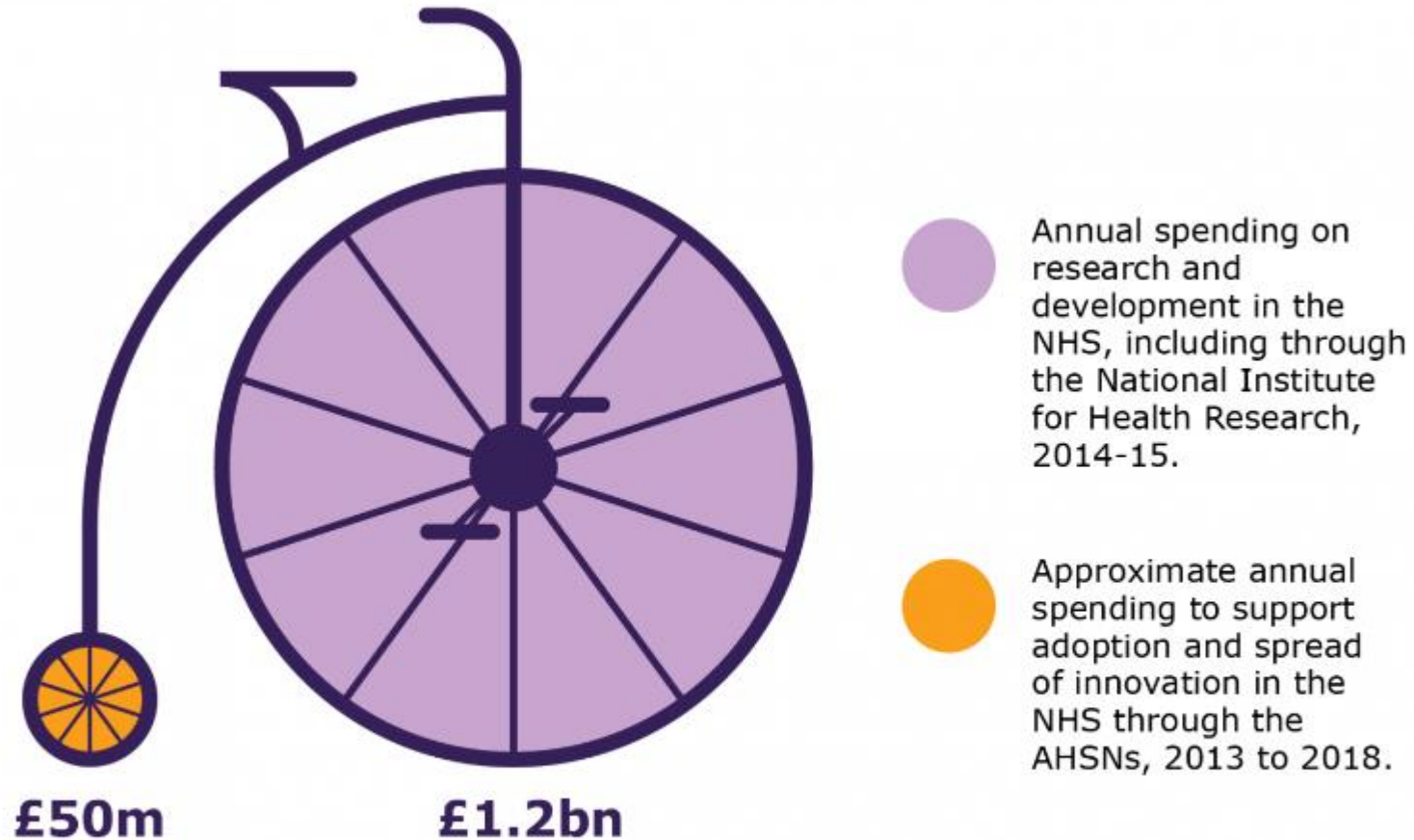


- Commissioned nationally (1 of 15) by NHSE/I and OLS. Second 5 year licence.
- Bring evidenced innovation into pathways of care to improve health and contribute to economic growth.
- Approx 30:70% budget split on national:'local'.
- 2nd licence and going forward – required to act as a national network more than previously.
- Contributed to ARC licence application and strong supporter of concept of discovery needs to be translated into improved care for people, with a consequent impact.



Disparity between research and innovation investment

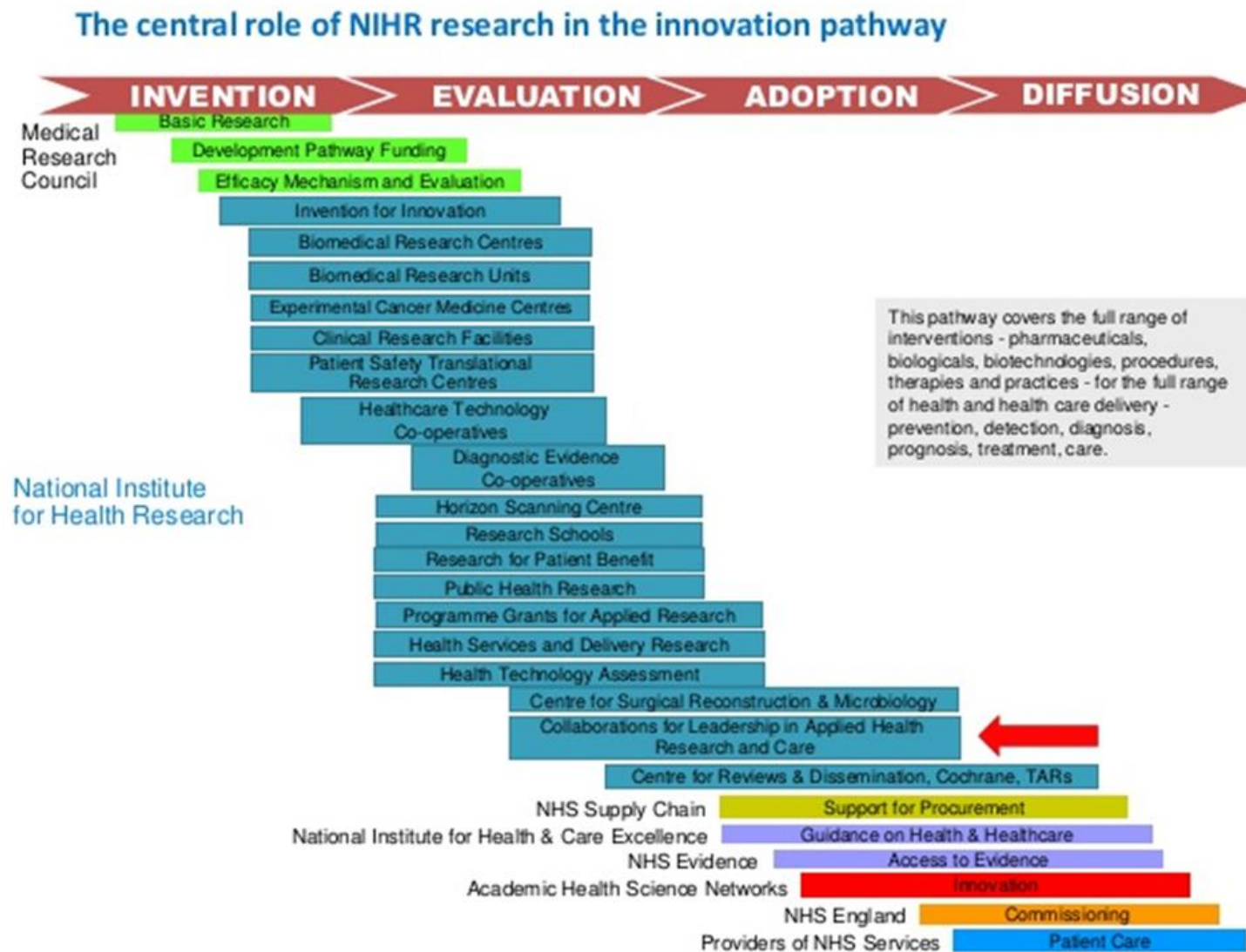
4



Sources: Department of Health 2016; NHS England 2017

England's innovation landscape

5



WHO

People who
often experience
the best that
care has to offer



• People who are
under-represented
and less heard

• People not
benefiting from
innovation

• People not
engaged with
traditional services

HOW

Needs
articulation

**Signposting &
matchmaking**

**Real world
validation**

**Spread
& adoption**



*Transforming
lives*

WHY

*through
innovation*

Physical
health

Mental
health

Healthcare

Social care

Secondary
care

**Primary &
community** care



QI is in our DNA

9

Kent Surrey Sussex
Academic Health Science
Network

**Achieving excellence
– every patient,
every time**

**The enhancing quality
and recovery approach to
service improvement**

Kent Surrey Sussex
Academic Health Science
Network

Kent, Surrey and Sussex Ambulatory Care Sensitive Emergency Admissions Analysis Report

April 2014

Authors:
Kate Cheema, Quality Observatory
Simon Berry, Quality Observatory

AHSN quality improvement expertise (1)

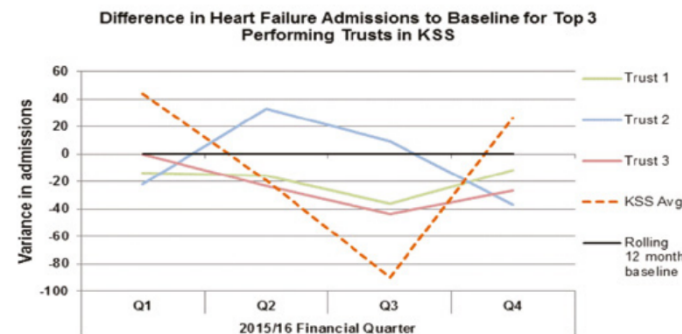
10



Measuring outcomes where the care bundle has been adopted

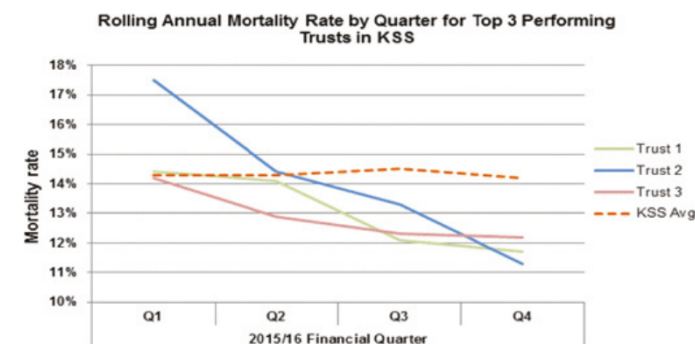
Early positive results

The top 3 trusts to apply the EQ care bundle within the KSS region managed to reduce admissions by a combined 190 patients fewer than baseline forecasts, which would account to a non-cash releasing saving in the region of just over half a million pounds based on the average cost of heart failure admissions in those specific hospitals.



The top performing Trusts LOS reduced by just over half a day equating to potential spare capacity of 452 bed days.

The three Trusts that saw the biggest improvements in mortality saved proportionally 35 more lives combined against baseline.



Measuring outcomes is a challenge to undertake reliably due to coding inconsistencies.

Localised aggregated data is used to provide correlational results as outcomes cannot be tracked at patient level. Aggregated data is however a useful proxy measure in being able to show a relationship to the process measures.

To ensure effective change monitoring much care is also taken to ensure the base-lining is applied accurately based on 3 year historic averages and trends, as well as being localised to each trust.

The prevalence of heart failure continues to grow nationally of the rate of between 3-6% per year. This appears to be echoed within the KSS region, evidenced by the increase in heart failure admissions. Consequently it is likely that care bundles have slowed the rate of increase expected and although the base-lining takes this into account, it is probably not introducing it as quickly as the increase is taking place in reality.

AHSN quality improvement expertise (2)

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The ELC began life as a local initiative and was spread nationally through the AHSN Network

The AHSN Network

Emergency laparotomy (EL)

- Major surgical procedure
- 30,000 to 50,000 performed UK p.a.
- 15% of patients die <30 days of surgery
- >25% of patients in hospital >20 days
- Costing to NHS >£200m p.a.

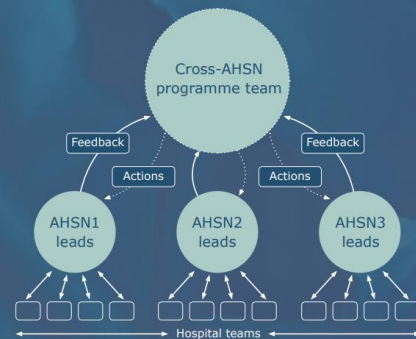
Methodology

- Spread EL Pathway Quality Improvement Care bundle
- Build a culture of collaboration across EDs, radiology, acute admission units, theatres, anaesthetics and intensive care
- Embed QI skills
- Share data, analysis and learning
- Build communities of practice

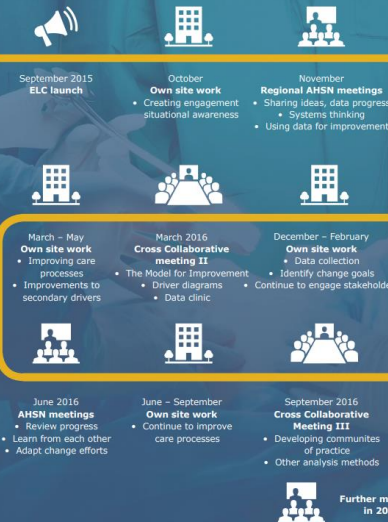
Emergency Laparotomy Collaborative (ELC) scale and outcomes

- KSS, Wessex and West of England AHSNs
- 28 hospitals, 24 trusts
- Length of stay reduced by 1.3 days
- Crude in-hospital 30-day mortality rate reduced by 11%
- £ return on investment 4.5:1
- Behaviour change
- Improved standards of care and patient outcomes

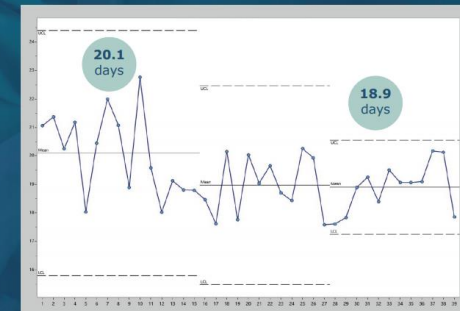
Operating model for spread and adoption of care model



The ELC journey



Length of stay reduction



For more information

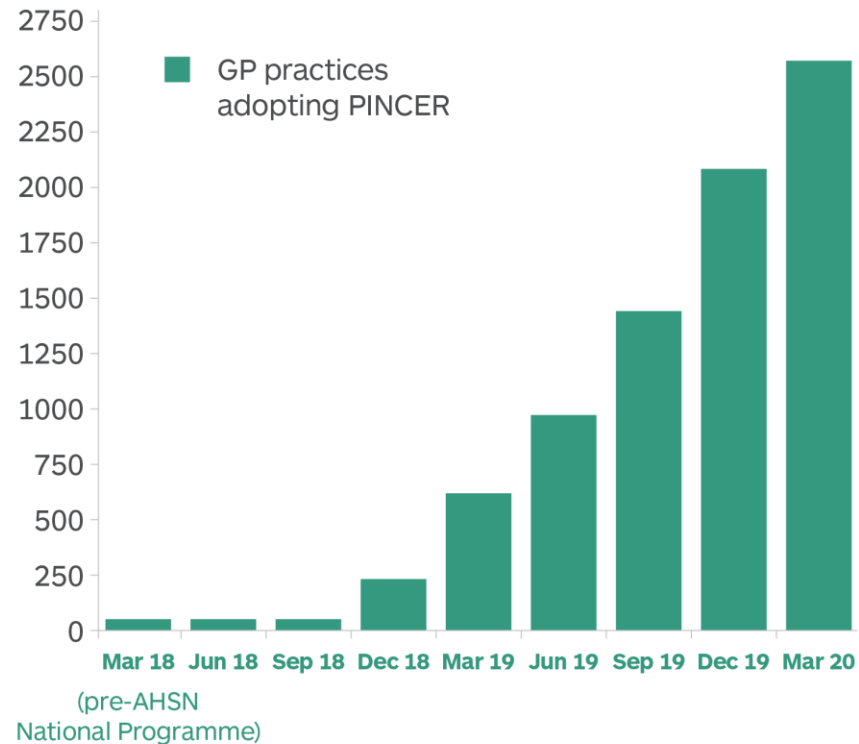
- Peter Carpenter, Programme Director, KSS AHSN pcarpenter@nhs.net
- Jo Wookey, Senior Programme Manager, KSS AHSN jwookey@nhs.net
- Website: tinyurl.com/ycmanv32

AHSN quality improvement expertise (3)

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PINCER was
a national
AHSN
Network
programme

PINCER



28%
of GP Practices
in England have
adopted Pincer

Increased from
50 to 2,571
GP practices since
April 2018

13,387
fewer patients
now at risk from
clinically significant
medication
errors

GP practices
adopting Pincer
increased
2.6x
in 2019/20

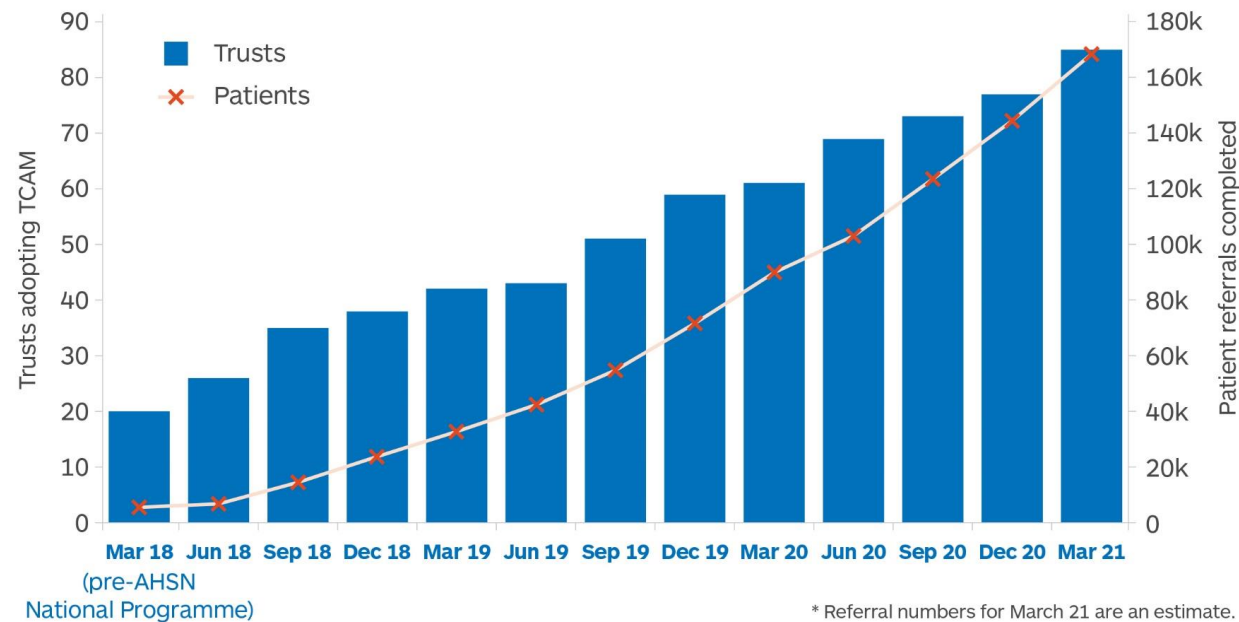
AHSN quality improvement expertise (4)

13

TCAM is a national AHSN Network programme

Transfers of Care Around Medicines (TCAM)

Help for patients who need extra support with prescribed medicines when they leave hospital



Spread from
20 to 85
acute trusts

168,267
patients
benefitted since
April 2018*

78,346
patients
benefitted since
April 2020*

61%
acute trusts
adopted



- Need articulation.
- To have the greatest relevance, and create pull the needs of people living with the problem being considered (those affected, those providing interventions and care) need to be understood and presented with as much granularity as possible.
- No matter how much sincere intention, and how much historic experience this can't be done remotely from the 'front line'...



Leach Court (Brighton)



**Kent Surrey Sussex
Academic Health Science
Network**

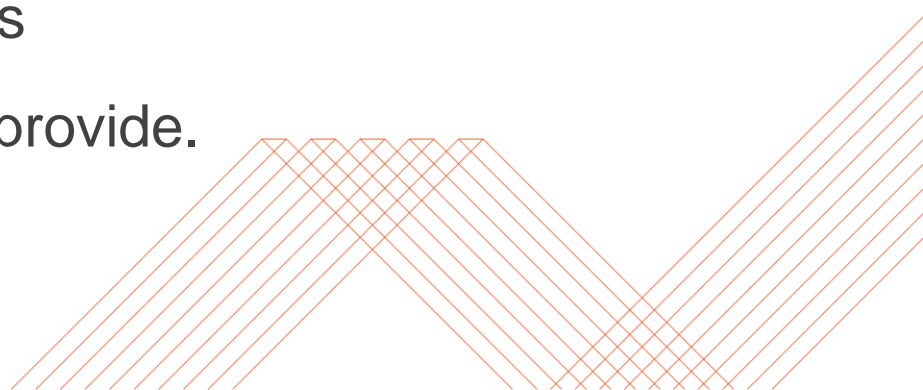


NHS
**Brighton and Hove
Clinical Commissioning Group**

Case study 1: respiratory out-patients

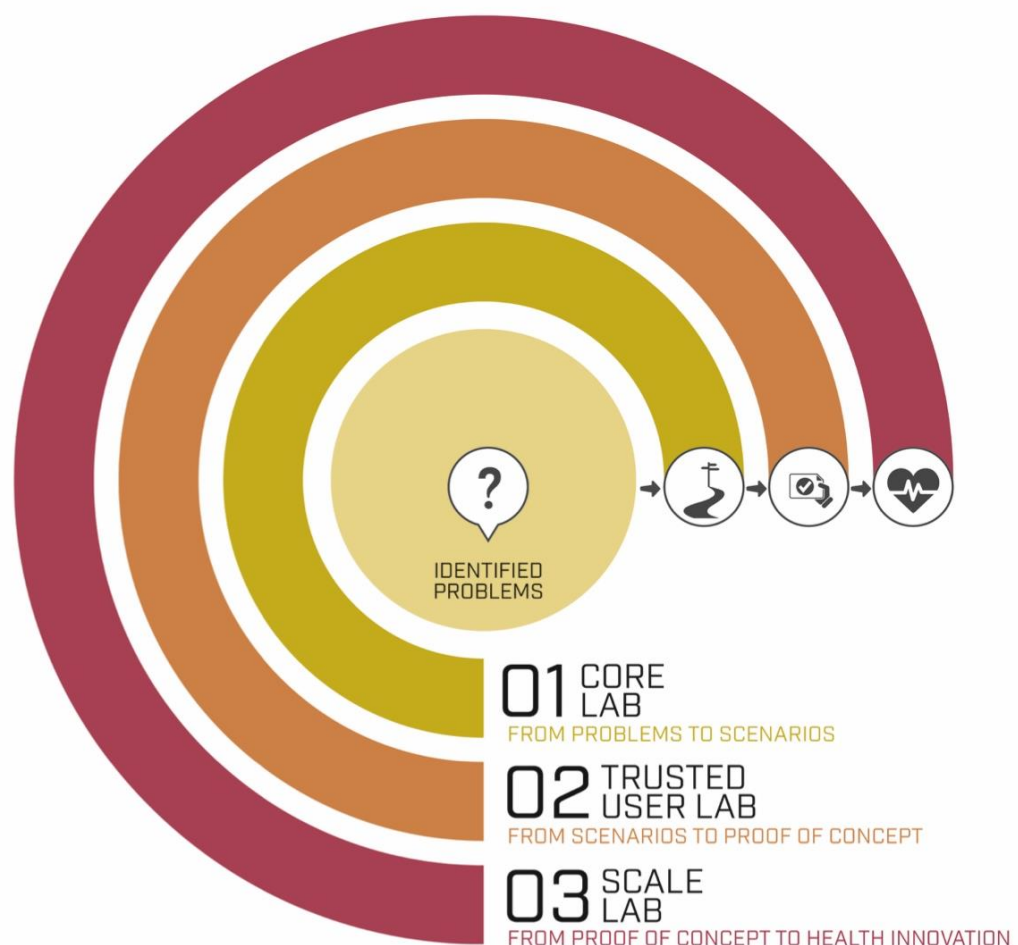
16



- Well performing service, high patient recommendation scores.
 - No concerns.
 - 20+ service users (patients and carers), Darzi fellow, respiratory consultant, Trust Dir. Corporate Affairs. A community...
 - Insights that emerged
 - Wanted less talking at
 - Wanted more of consultation to focus on partner/ needs
 - Wanted more peer support – set up a on line group to provide.
- 

KSS AHSN / Public Intelligence

User-driven health innovation methodology



In each case, a **living lab** is a **non-physical arena for the development of and experimentation with new health innovation solutions.**

Physical meetings will take place between the different users of each lab, but the lab as such is a framework for the innovation work.

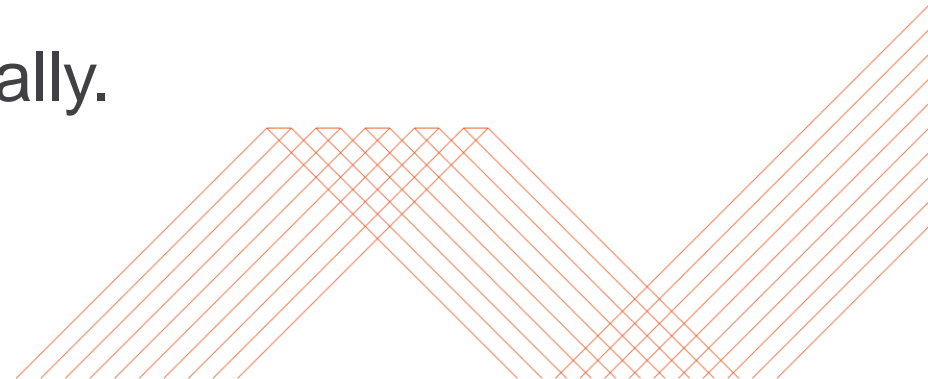
PUBLIC **INTELLIGENCE**

Case study 2: physiological monitoring in dementia

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- Hypothesis – people with dementia can be kept at home safely if common problems causing admission are spotted early and managed aggressively.
- ‘Trusted users’ recruited to help assess technology – rejected much.
- The technology (acceptable to) chosen by the users performed well and had confidence of the project.
- Main benefit may be carer confidence and support to keep their loved one at home.
- Commercial solution now being offered nationally.



TIHM for Dementia

Living Labs at University of Surrey

- Simulate a home environment
 - Test device functionality, deployments and integration
 - Simulate patient monitoring
 - Test machine learning algorithms with training data
 - Clinical alerts including UTI, Agitation, Weight & Blood pressure
 - Staff training (SAPB, Alzheimer's society)
 - Public demonstrations
 - Open days (Carers, PWD, Researchers, Council, Companies, Government officials)
- ... plus 10 'Trusted Users' providing feedback on needs and testing new technologies in their own homes**



Case Study 1: TIHM for Dementia (Test Bed 1)

- Technological devices such as sensors, apps and trackers installed in people's homes
- Testing remote monitoring of health and wellbeing using data combinations gathered via Internet of Things
- Evaluation of results and share health technology learning to support other long term conditions

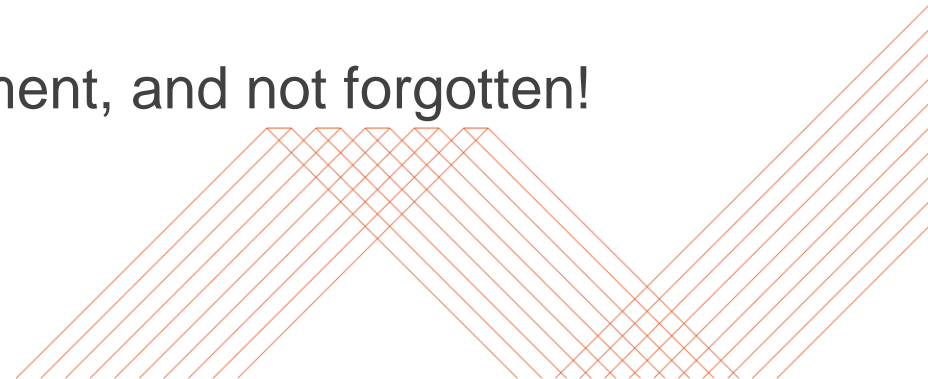


Take home messages for implementation from KSS perspective

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- ARCs live and die on implementation and impact, not purely on discovery.
- Implementation/ spread of the new has always been difficult (although COVID interesting in this respect).
- Involving people as a community of experience gives greater granularity to the question, and creates interest and pull from the front line.
- This is not a one off but an ongoing relationship with the public, professional groups and commissioners. The ARC is their ARC.
- Pull from people and the system will see quicker and better implementation than push alone.
- Measurement must be designed in, not left to last moment, and not forgotten!



WHAT

**Improved
research and
innovation**

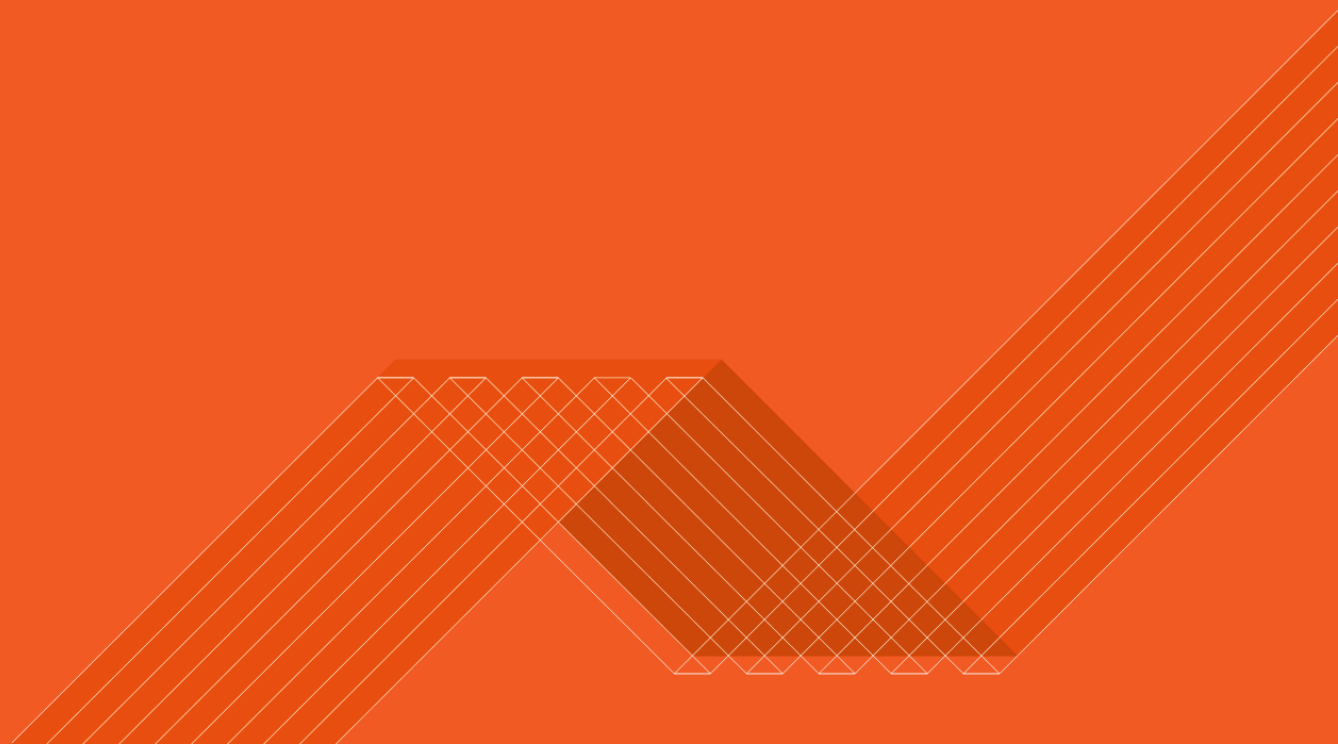
**Thriving
co-design**



**Strong and
successful
ARaC**

**More public
benefit**

Q&A



Thank you

Des Holden

Des.holden@nhs.net