

FOR INFORMATION ONLY– Sheffield submission for Test Bed status

Governing Body

4 February 2016

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Is your report for Approval / Consideration / Noting	
Noting only.	
Are there any Resource Implications (including Financial, Staffing etc)?	
No initial investment requirement. Future investment decisions will be made subject to successful application for Test Bed status and future business case(s) for technology innovation.	
Audit Requirement	
<u>CCG Objectives</u>	
Principal Objective: To ensure there is a sustainable, affordable healthcare system in Sheffield.	
<u>Equality impact assessment</u>	
EIA (screening) has been undertaken.	
<u>PPE Activity</u>	
The development of the Test Bed application has involved direct patient input via a patient and public stakeholder event and ongoing engagement from Sheffield Healthwatch and local patient representative groups. Patient and public engagement is also built into the proposed governance arrangements for the development of the Test Bed with the establishment of a 'lay board'.	
Recommendations	
The Governing Body is asked to note the confirmation of Sheffield as a Test Bed.	

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1. Introduction / Background

- 1.1. The Governing Body has previously received presentations in respect to the application for Test Bed status by Sheffield health and social care organisations.
- 1.2. The Test Bed initiative was launched by NHSE in March 2015 as part of its intention to drive interoperability and innovation across health and social care communities and accelerate commercial/public partnerships.
- 1.3. An initial project group was established in April 2015 by Professor Wendy Tindale (STH) supported by Sheffield University to develop a Sheffield Test Bed bid. A small project group including partners across health and social care as well as GE Healthcare (as commercial partner) developed a final bid which was submitted in December 2015.
- 1.4. Sheffield has been successful in this application process. The award of Test Bed status will come with a circa £2m investment from NHSE to support initial implementation of the programme. Programme governance will be the responsibility of a Programme Oversight Board comprising senior leaders from the City Council, CCG and other partner organisations with the Chair being Sir Andrew Cash (Chief Executive, STH). These governance arrangements are currently under development with the expectation that an initial interim Programme Manager will be appointed to escalate early mobilisation.
- 1.5. The successful Test Beds were chosen on their ability to address local clinical challenges through innovation, at a large scale, and on the strength and commitment of their local leadership to be able to change established ways of working.
- 1.6. They were also required to demonstrate their ability to evaluate and collect evidence of the improvements made for patients, which can then be used to support the spread of successful innovations to other areas.
- 1.7. Given an unprecedented opportunity to demonstrate their solutions at large scale on a global stage, it is envisaged that successful Test Bed partners will deliver wider financial benefits to the NHS and the UK economy as they are rolled out in other areas at home and abroad.

2. Test Bed Initiative

- 2.1. This first wave of Test Beds includes five health and care Test Beds and two 'Internet of Things' Test Beds. The sites will be spread across different areas of England, including the West of England, Surrey, Sheffield and Birmingham.

The five NHS Test Beds chosen are:

- **Care City Health and Care Test Bed** – which will promote healthy ageing across a million-strong population in North East London. Bringing together University College London Partners, Health Analytics, Orion Health and 9 other innovators, the partnership will test and evaluate combinations of innovative technologies that can help patients to manage their own health conditions and to remain as

independent as possible, supported by carers who will receive the information and connections they need coordinate care. For example, this will include an online tool for those with dementia, a social network app which offers peer-to-peer support safely online with guidance from credible organisations and institutions, and a device which assesses falls risk and mobility.

- **Long Term Conditions Early Intervention Programme** – which will see the NHS in Heywood, Middleton and Rochdale working with Verily (formerly Google Life Sciences), MSD (a trade name of Merck & Co., Inc., with headquarters in Kenilworth, NJ, USA), Health E Research and the Greater Manchester Academic Health Science Network to help healthcare professionals better identify and support patients at risk of long term conditions using the most advanced new predictive techniques. This will involve analysing trends and patterns related to conditions like heart failure and some lung diseases such as Chronic Obstructive Pulmonary Disease to identify patients who would most benefit from tele-health, tele-care and tele-medicine technology. These patients will benefit from a more personalised service, in particular being proactively offered additional physician support and access to technology.
- **Lancashire and Cumbria Innovation Alliance (LCIA) Test Bed** – which will see the NHS, including two New Care Model Vanguard sites, partner with Philips and a number of SMEs and social enterprises to support the frail elderly and people with long term conditions to remain well outside of hospital and avoid unnecessary admissions. They will test new approaches to identifying patients that can benefit from additional support and help them to self-care at home through improved education and telehealth technologies.
- **PERfect Patient PATHway (PEPPA) Test Bed** – aims to create the ‘perfect patient pathway’ to bring substantial benefits for patients in the Sheffield City Region suffering from long term conditions, such as diabetes, mental health problems, respiratory disease, hypertension and other chronic conditions. The Test Bed will keep patients with long term conditions well, independent and avoiding crisis points which often result in hospital admission, intensive rehabilitation and a high level of social care support. Working in partnership with GE Finnamore, IBM and 13 smaller innovators, the local health and care system will set up an integrated intelligence centre to help get people the help they need, when they need it most.
- **RAIDPlus Integrated Mental Health Urgent Care Test Bed** – which will see Birmingham and Solihull Mental Health NHS Foundation Trust partner with Accenture to offer more proactive support for people at risk of mental health crisis. Patients across Birmingham and Solihull will have access to digital tools such as online support, risk assessments and crisis intervention plans that will enable care professionals to better support patients to manage their conditions in the community. In addition the Test Bed will use predictive analytics technology to better identify those at risk of crisis, enabling mobile crisis workers and tele-triage workers to provide prevention support before a crisis arises.

The two Internet of Things (IoT) Test Beds are:

- **Diabetes Digital Coach** – a project led by the West of England AHSN in partnership with Diabetes UK and technology companies including Hewlett Packard. Bringing together mobile health self-management tools (wearable sensors

and supporting software) with the latest developments in connecting monitoring devices (Internet of Things), the Test Bed will enable people with Type 1 or Type 2 diabetes to 'do the right thing at the right time' to self-manage their condition. It will also encourage more timely and appropriate interventions from peers, healthcare professionals, carers and social networks.

- **Technology Integrated Health Management (TIHM)** – a collaboration between Surrey and Borders Partnership NHS Foundation Trust and an array of health technology providers which will help people with dementia to live in their own homes for longer. Individuals and their carers will be provided with sensors, wearables, monitors and other devices, which will combine into an 'Internet of Things' to monitor their health at home. This will empower people to take more control over their own health and wellbeing, as well as enabling health and social care staff to deliver more responsive and effective services.

The IoT Test Beds are part of IoTUK, an integrated £40 million, three-year Government programme that seeks to advance the UK's global leadership in IoT and increase the adoption of high quality IoT technologies and services throughout businesses and the public sector.

3. Conclusion

- 3.1. The award of Test Bed status is a significant boon to the development of digital and technological integration across our local communities. Through working collaboratively across partner organisations on this agenda we can strengthen our role as a system leader in transformational change programmes.

4. Recommendations

- 4.1. Governing Body is asked to note the confirmation of Sheffield as a Test Bed.

Paper prepared by: Victoria McGregor-Riley

On behalf of: Idris Griffiths, Director of Health Reform and Transformation

26th January 2015