

# Innovation Mental Health Network Meeting

Director of Commercial Development: Dr Nick  
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# Oxford AHSN Wealth Creation

“Best health for our population and prosperity for our region”

“To help the region become the favoured location for inward life science investment, life science business creation and growth, helping the NHS to accelerate the adoption of medical innovations of significant benefit to patients”

# Oxford AHSN Wealth Creation

## **Inbound Innovation**

Informing the NHS about high value innovations and enabling staff to make full use of them to improve outcomes and experiences of patients

## **Outbound Innovation**

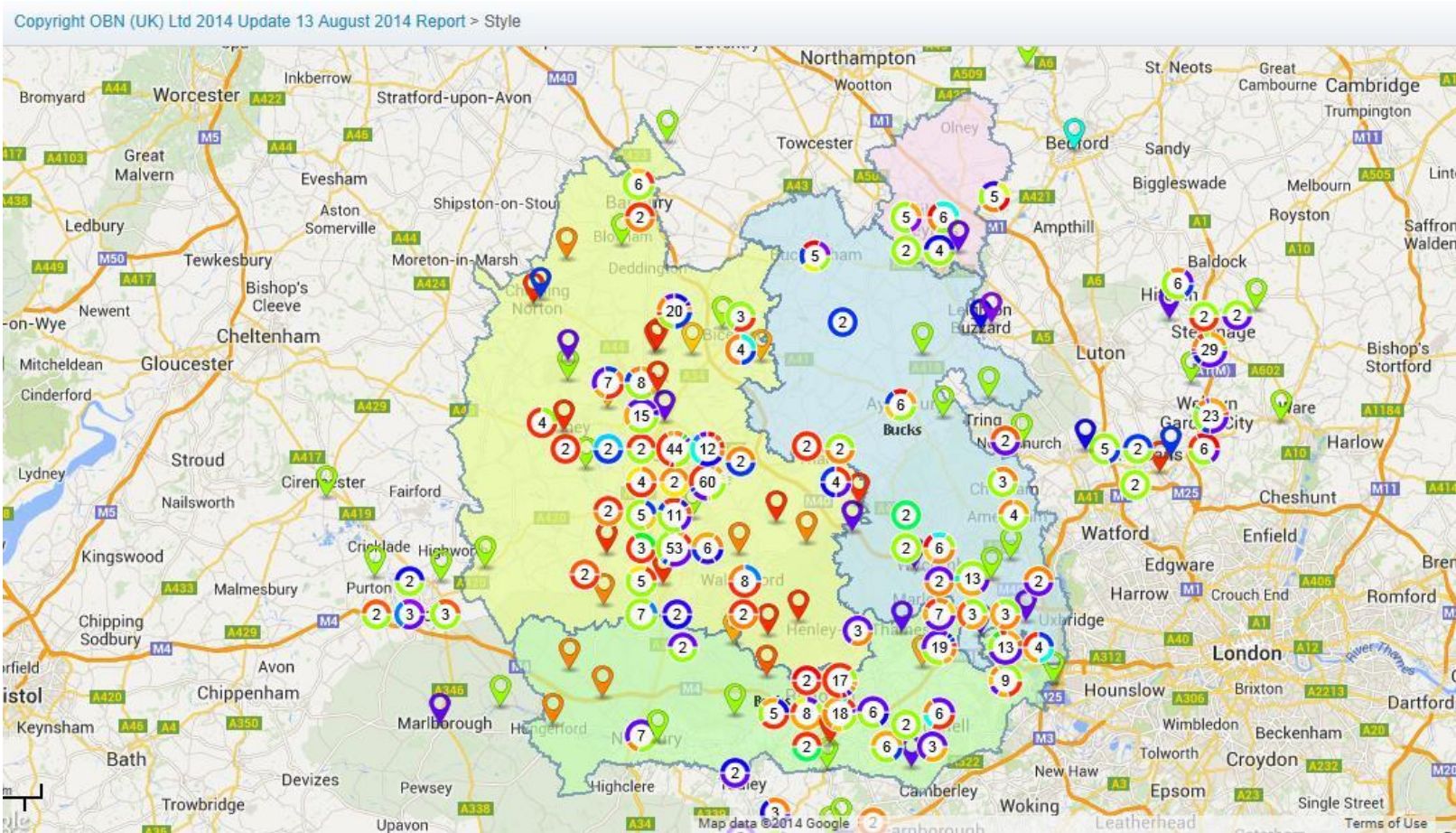
Helping to ensure that great ideas from the NHS, universities and industry are converted into products and services that create value for patients within and beyond our region

## **Types of Medical Innovation**

Any new product or service that delivers benefit to patients

- Pharmaceuticals – New drugs or new uses for established drugs
- Vaccines
- ATMP (Advanced Therapy Medicinal Products) – Gene or cell therapies
- Tissue engineered products and regenerative medicine
- Surgical innovations
- Medical diagnostics and devices
- Information Technology, medical informatics, mHealth and eHealth
- Clinical decision making and support including IT tools to support compliance with best practice
- Healthcare delivery, management and administration
- Health promotion & disease prevention and patient driven wellness (public health)

# Interactive Industry Map



Over 550 companies within the region with 20 large multinationals  
 Allergan, Bayer, Baxter, BD, Boehringer Ingelheim, BT, Covance, Daiichi  
 Sankyo, GE Healthcare, ICON, Johnson & Johnson, Microsoft, Oracle, Oxford  
 University Press, Quintiles, Sanofi, Stryker, UCB, Vodafone

# Regional Strengths

- Arguably the largest life science cluster in Europe – 550 life sciences companies
- Top UK cluster for funds raised 2014: \$221m in venture financing and \$485m on public markets
- £736 million invested in 182 companies (2011-14) including UK-leading £200 million Circassia IPO
- University of Oxford ranked No 1 for Clinical, Pre-clinical and Health<sup>1</sup>
- University of Reading ranked in the top 1% of global universities
- 5 Business Schools across the region

<sup>1</sup> Times Higher Education World University Rankings 2013-14



# Wealth creation – key priorities

- **Supporting companies along the adoption pathway – the “lit runway”**
  - Clear innovation pathways from origination to adoption highlighting health benefits and alignment with NHS needs
  - Pharma, medtech, diagnostics, digital, service improvement
- **Supporting investment into the region**
  - Regional investment strategy
  - Grant support – SBRI, Horizon 2020, Innovate UK
- **Building a culture of innovation in the NHS**
  - Entrepreneurs Programme
  - Challenge 2023
- **Building long-term partnerships with businesses & other organisations**
  - SMEs & large companies

**Over 40 projects in progress**

# Supporting companies along the adoption pathway

- **14 projects with companies**
- **Large companies**
  - Implementation study for BNP in ambulatory clinic
  - Improving management of chronic diseases
- **SMEs**
  - £1 million SBRI award in POC fluoropolymer capillary film platform for acute coronary syndrome
  - Pilot study in local Trusts for IU technology audit
  - SBRI award winning platform for vital signs monitoring in patients
- **TTOs**
  - Review of diagnostics portfolio for clinical/NHS opportunities

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# Building investment opportunities across the region

- **20 projects across the region**
- **Regional Investment Strategy**
  - Deployment of capital to the region
  - Small fund for pump priming NHS projects
- **The Alumni Summit**
- **Oxford Smart City**
- **Buckinghamshire Life Sciences Business Plan**
- **Structural Genomics Consortium**
  - Spin-out opportunities – inflammation





# Wealth creation – Apps and e-health lab

- Commissioned App Development Roadmap
- Oxford e-health Lab – multi-partner coordinating hub for e-health activity and acceleration of innovation and implementation
- Local App examples:
  - AED Locator (find a defibrillator)
  - Foodswitch – calorie and salt control
  - Monster Manor – blood sugar control for children with Type 1 Diabetes



**NHS**  
NHS Innovations South East

Oxford Academic Health Science Network Report:  
**App Development Roadmap**



South Central Ambulance Service NHS Foundation Trust

**Lifesaving app launched by South Central Ambulance Service**

As part of its ongoing 'Start a Heart' campaign, South Central Ambulance Service (SCAS) NHS Foundation Trust is delighted to be the first ambulance trust in the UK to launch an app that locates the nearest Automatic External Defibrillator (AED).

Thanks to **Atrala Consulting Inc** we now have an Apple iPhone and iPad app that users can also access their phones. Our app uses GPS functionality to show where the nearest AED is as well as a list of other AEDs in the area.

The app, which identifies over 600 AEDs in Berkshire, Buckinghamshire, Hampshire and Oxfordshire, could help local people save the life of a

**FoodSwitch UK wins Public Health England's Health X competition**

August 2014

We are delighted to announce FoodSwitch UK is one of three health apps to win Public Health England's Health X competition!

The Health X initiative, supported by NHS, Change4Life, TechCity and The Telegraph, aims to help individuals and families eat well and move more through innovative technology. FoodSwitch UK was shortlisted from 150 apps to the final 10. In true Dragon's Den style, we pitched our app to a panel of judges at the Finalists' Event and were thrilled to be announced winners along with Fee Fi Fo Fit and Youiverse.

The judges felt FoodSwitch UK could enable people to make real simple changes and have a real impact on their diets. At the event, Duncan Selbie, Chief Executive of PHE, said the project had "the potential to change every shopping basket in the country".

Katharine Jenner, CASH's Campaign Director, said she was "delighted with the win, we have put so much work into FoodSwitch and we know it has enormous potential – something the PHE team's backing will allow us to realise."

Over the next few months we'll be working intensively with Public Health England and their partners to further develop and promote FoodSwitch across the UK. Watch this space!

For Public Health England's press release, [click here](#).

For coverage from The Telegraph, [click here](#).

World business, finance, an... | Our Team | Oxford Academic Health Science... | App-Development

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Trust

- ONCOLOGY
- CARDIOVASCULAR/THROMBOSIS
- RENAL
- BIOLOGY
- CENTRAL NERVOUS SYSTEM
- INTERNAL MEDICINE
- VACCINES
- GENOMICS
- CONSUMER HEALTHCARE (OTC)
- ANIMAL HEALTH
- INDUSTRIAL INFRASTRUCTURE

**monster MANOR**

Monster Manor is a free game for iPod, iPhone, iPad and Android that he families of children (age 6-13) with Type 1 diabetes play on top of their blood glucose monitoring. It aims to engage children in their health management and improve adherence to treatment while having fun.

Download on the App Store

GET IT ON Google play

Oxford Academic Health Science Network

**DIABETES UK**  
CARE. CONNECT. CAMPAIGN.

**ayogo**

**SANOFI**

Updated: November 11, 2013

# Achievements to Date

- Support £1 million SBRI award
- Entrepreneurs Programme
- New pre-competitive pathways for drug discovery
  - Open access IP workshop
- KDM Pharmaceuticals Business Plan
- Precision Medicine Catapult
- Formation of Diagnostics Industry Advisory Council
- Energy and Sustainability Cost Improvement Programme
- BIVDA Point of Care Working Group



## **NHS England Test Beds Programme**

<http://www.england.nhs.uk/ourwork/innovation/test-beds/>

An opportunity to combine different technologies with innovations to change how services are delivered in the NHS, for example:

- a new service delivery model for people with dementia that combines wearable devices linked into mobile or other digital technology, implemented alongside technology-enabled housing and a lower-cost nurse or allied health professional workforce model

The programme will support about around five test beds within the NHS that deliver:

- the most compelling innovations, offering the greatest potential value for patients and taxpayers
- a strong proposition will be a firm commitment from NHS delivery partners to implement these innovations seriously and to test them rigorously



A test bed is a project that evaluates the impact of combinations of innovations in real world clinical settings..

...to demonstrate how innovations can transform health and healthcare outcomes at the same or lower overall cost and to demonstrate the value of Internet of Things technologies and applications.

### **The outcomes NHS England are looking for include:**

- Identified innovations that will improve health and healthcare outcomes at the same or lower overall cost
- Changes to the way the NHS delivers its services to make the most of new technologies
- An agreed approach to delivering low cost robust and rapid evaluations for health and social care innovations
- The NHS being recognised as a world leader in evaluating the value of innovations through rapid and robust trials
- Adoption of Internet of Things technologies and applications in health and social care
- Interoperability of health and social care Internet of Things technologies through shared standards
- An evidence base that enables the NHS to take up high value innovations at scale



## Programme Timeline:

**April – June  
2015**

**A call to  
innovators**

Completion of  
expressions of interest  
(Eoi)

**Scoping of  
potential Test  
Bed Sites**

Identify groups of  
commissioners,  
providers, and  
partner organisations  
who fit criteria

**Summer  
2015**

**Catalysing  
partnerships**

Develop long list from  
the Eoi  
'Matchmaking' events  
between Innovators  
and potential Test Bed  
sites

**Autumn  
2015**

**Finalising Test  
Bed proposals**

Finalise joint proposals  
between innovators  
and potential Test Bed  
sites

**December  
2015**

**Designating  
Test Beds**

5 – 6 Test Bed  
partnerships  
announced. Based on  
potential value of  
overall offering and  
commitment of all  
parties

↑  
Expressions of  
Interest submitted  
12 June