

i4i – Invention for Innovation Programme

Dr Ruth Nebauer

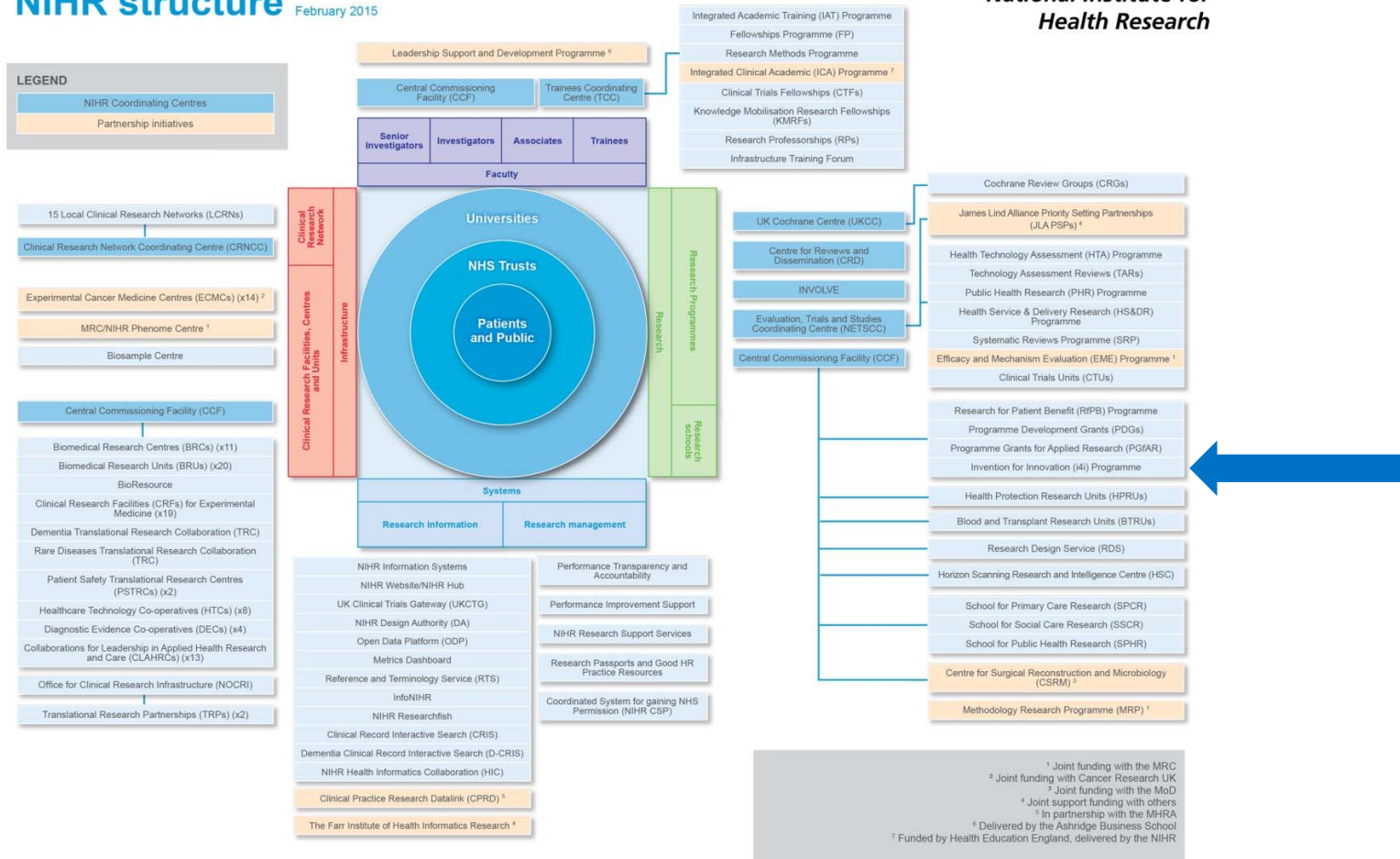
**Innovation Programmes
Central Commissioning Facility**

Who we are & what we do

- NIHR translational funding scheme
- Support collaborative R&D and clinical adoption
- Innovative healthcare technologies
 - Medical devices
 - Active implantable devices
 - In vitro diagnostics
- De-risk projects for follow-on investment
- Led by Programme Director, Martin Hunt
- Supported by a team of Programme Managers

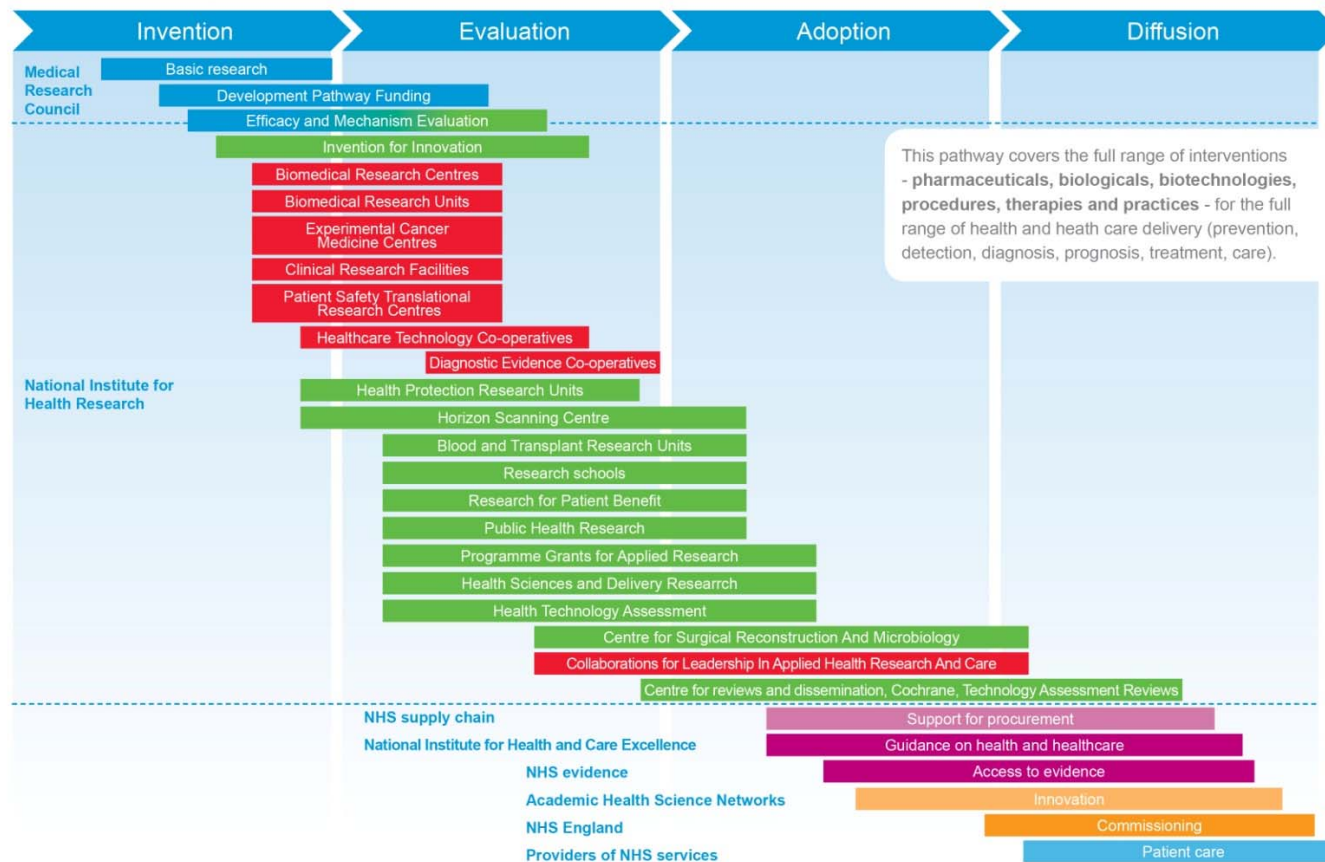
i4i in the NIHR

NIHR structure February 2015

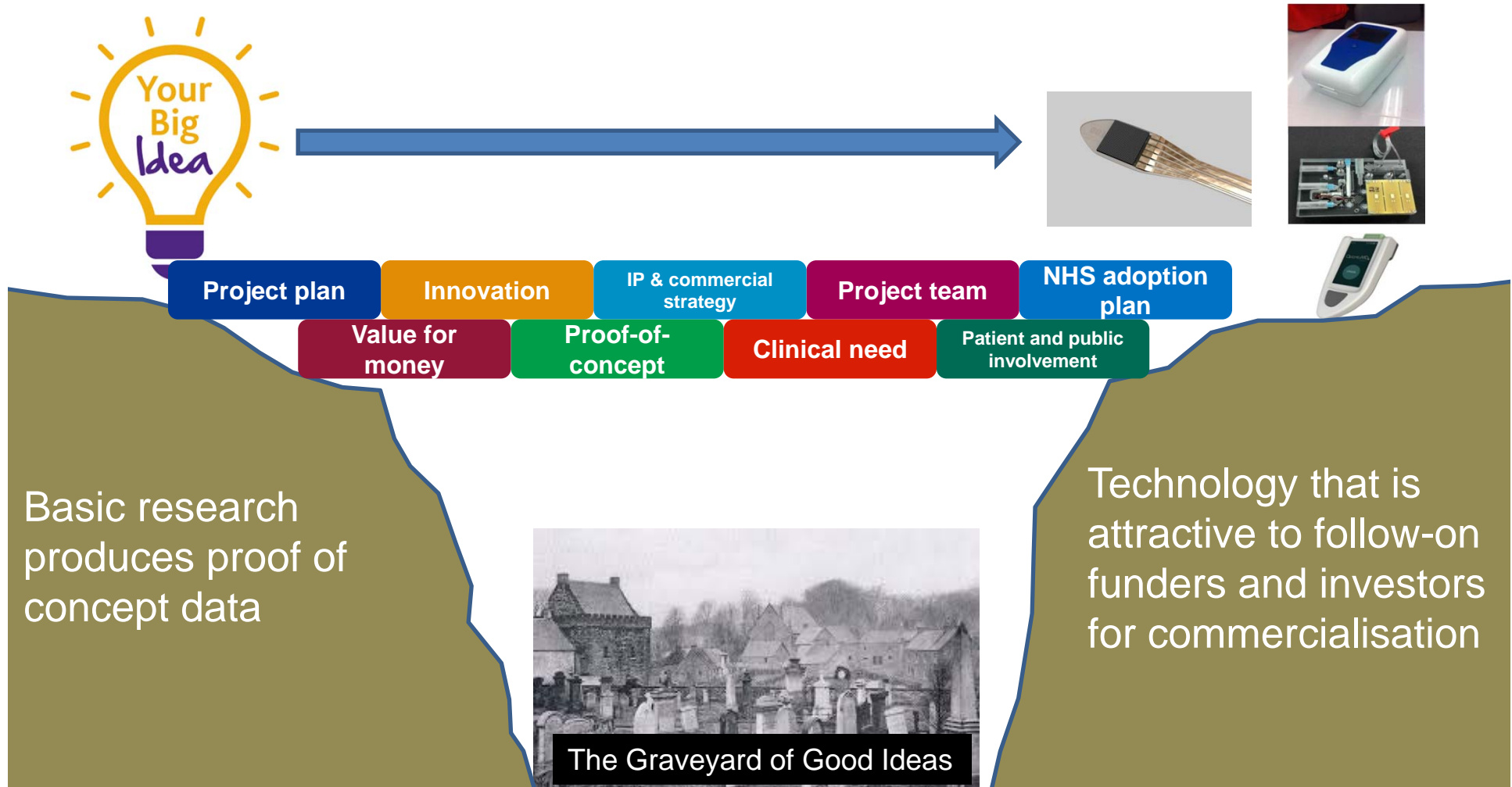


i4i in the funding landscape

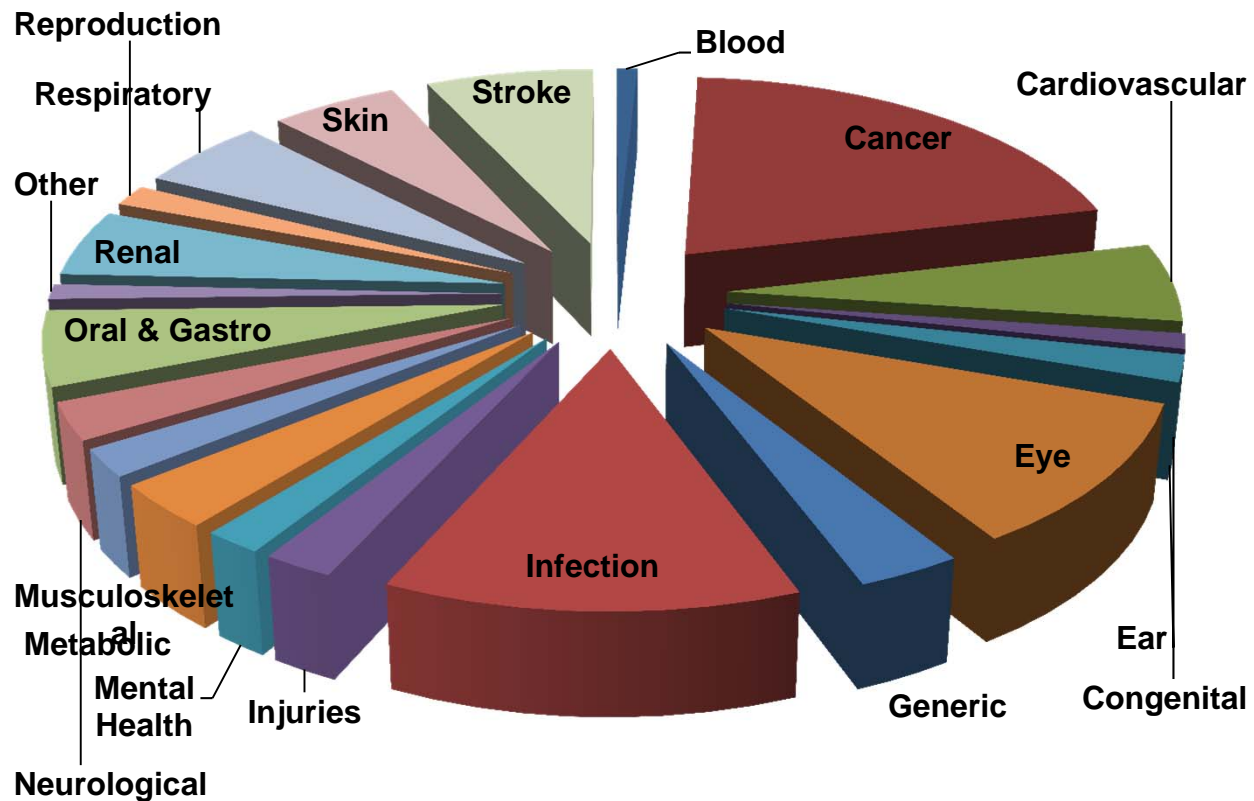
The central role of NIHR research in the innovation pathway



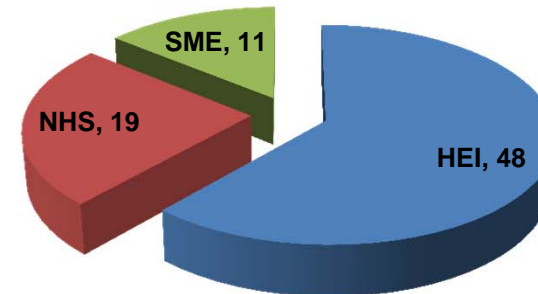
i4i bridges the medtech 'valley of death'



i4i funds any area of clinical need



i4i funds projects with lead organisations across England



Facts & figures

2

funding
streams

- i4i Product Development Awards
(<http://www.nihr.ac.uk/funding/i4i-product-development-awards.htm>)
- i4i Challenge Awards
(<http://www.nihr.ac.uk/funding/i4i-challenge-awards.htm>)

36

months

78

active
projects

£3.25M

largest
award

£77M

total
spend

Why apply to i4i?

- Dedicated medtech funding programme
- Uncapped funding amount
- Available source of early funding for SMEs
- Milestone-based awards to de-risk
- Commercially oriented panel supported by peer review
- Guidance and advice through RSG/IPMG
- Favourable independent review by RAND¹

1 'The NIHR Invention for Innovation (i4i) programme. A review of progress and contributions to innovation in healthcare technologies'

RAND review of i4i

'...bridging the valley of death'

- i4i rare funder of high risk early innovation
- Funding process helps proposal improvement
- Willing to support not only usual suspects
- Open to diverse themes and disease areas
- Adaptable and responsive funding source
- Less bureaucracy than other funders
- Valuable support from i4i team
- Prestige of i4i award opens up doors

'The i4i team was instrumental in raising the visibility and the overall impact of the work.'

'When we seek advice from NHS stakeholders....they are more willing to help if you have an NIHR award.'

Funding process

Hit the
deadline!



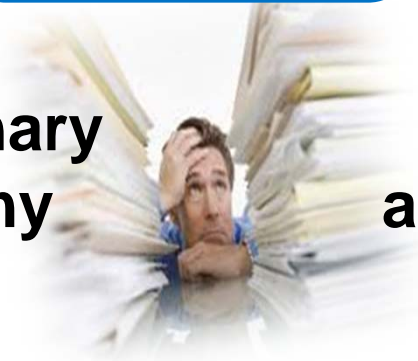
Peer and
lay review



Stage 1

Stage 2

Preliminary
scrutiny



Panel
assessment



A successful application

**Proof-of-
concept**

Clinical need

Innovation

Project plan

Project team

**IP &
commercial
strategy**

**Patient and
public
involvement**

**NHS
adoption**

**Value for
money**

Fast DNA testing platform

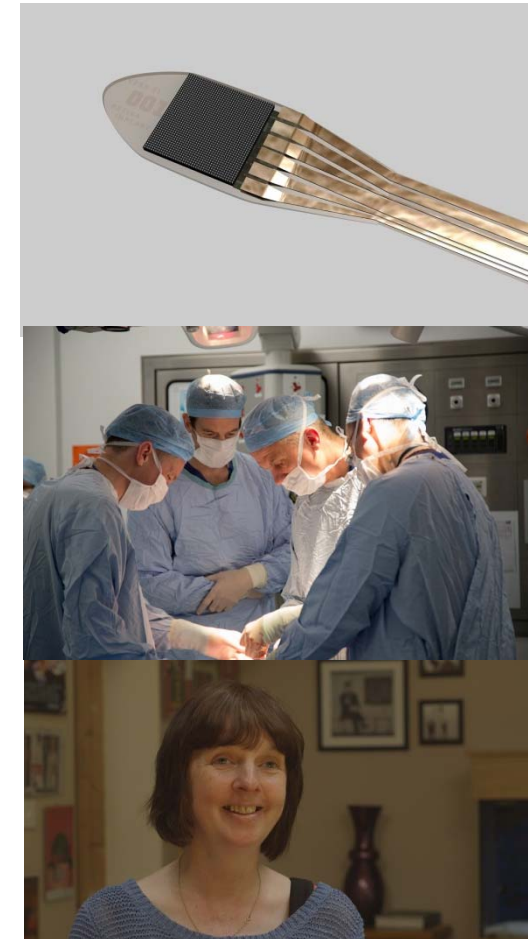
QuantuMDx

- QuantuMDx Group Ltd, £1.1M for 3 years
- Pre-alpha prototype developed
- Leveraged EU (€5.2M) and Angel (\$8.42M) funding
- Expected product launch in Q3 2016
- Robust nanowire sensor and new sequencing chemistry
- Result in 15min, significant cost reduction
- Global market for platform £100bn



Retinal implant for blindness

- Oxford University, £0.5M for 3 years
- Clinical trial to test retinal implants in patients who have become blind
- Implants will be given to six patients
- Two year follow up period to review the performance of the implant
- One of the patients (Rhian Lewis) appeared on BBC's Trust Me I'm a Doctor programme in January 2016



Upcoming calls

- 12th Product Development Awards call
 - Opens 6 April 2016
 - Stage 1 deadline 1 June 2016
 - Shortlisting mid-July
 - Stage 2 deadline 14 September 2016
 - Panel meetings in mid-November
- 13th Product Development Awards call &
7th Challenge Awards call opening in autumn

Thank you

i4i – Invention for Innovation

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W <http://www.nihr.ac.uk/funding/invention-for-innovation.htm>

Disclaimer: Please note that all case studies present independent research funded by the NIHR. The views are those of the author(s) and not necessarily those of the NHS, the NIHR or the Department of Health.