

# UK Biobanking Showcase

Research Perspectives

Dr Penny Wilson, Innovate UK  
London, 16<sup>th</sup> November 2016

**Innovate UK**

# Innovate UK

## The UK's Innovation Agency

- A non-departmental public body spun out of the DTI in 2007, sponsored by the Department of Business, Energy & Industrial Strategy
- Remit to grow the UK economy by stimulating innovation in science, technology and business
- Since 2007, the organisation has:
  - invested up to £1.8bn of public money in innovation, drawing on a similar investment from industry and partners
  - Supported ~ 7600 companies
  - Returned up to £13.1bn to the UK economy and created up to 55,000 jobs, translating to over 7 jobs per company we've worked with

### Five point plan

- Working with the research community and across Government
- Accelerating UK economic growth
- Building on innovation excellence throughout the UK
- Developing Catapults within a national innovation network
- Evolving our funding models

### New sector structure

- Emerging & Enabling Technologies
- Health & Life Sciences
- Infrastructure Systems
- Manufacturing & Materials

# Precision Medicine Programme

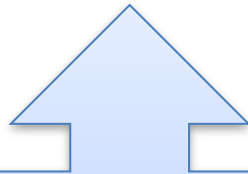
- Launched October 2010
- Aims to realise the potential of stratified medicine in the UK

- Right patients treated
- Right time
- Right therapy



- Improved outcomes
- Fewer complications
- Better use of finite resources

Driven and enabled by



- Better understanding of pathology
- Ability to measure multiple markers faster and cheaper
- Development of more selective therapies
- People's expectations
- Advances in digital health
- Health economics

**This is the natural evolution of existing medical practice when presented with better information**

# Precision Medicine Programme

- Key roadmap themes
  - Incentivising adoption
  - Increasing awareness
  - Patient recruitment – consents and ethics
  - Clinical trials
  - Data – collection, management and use
  - Regulation and standards
  - Intellectual property
  - Bio-banks and biomarkers
  - Increasing the impact of R&D investment
- 18 competitions run (including infectious disease platform). Supported 140 projects with an investment of £61.8m and an additional £31.2m from industry







It's not all about the technology!



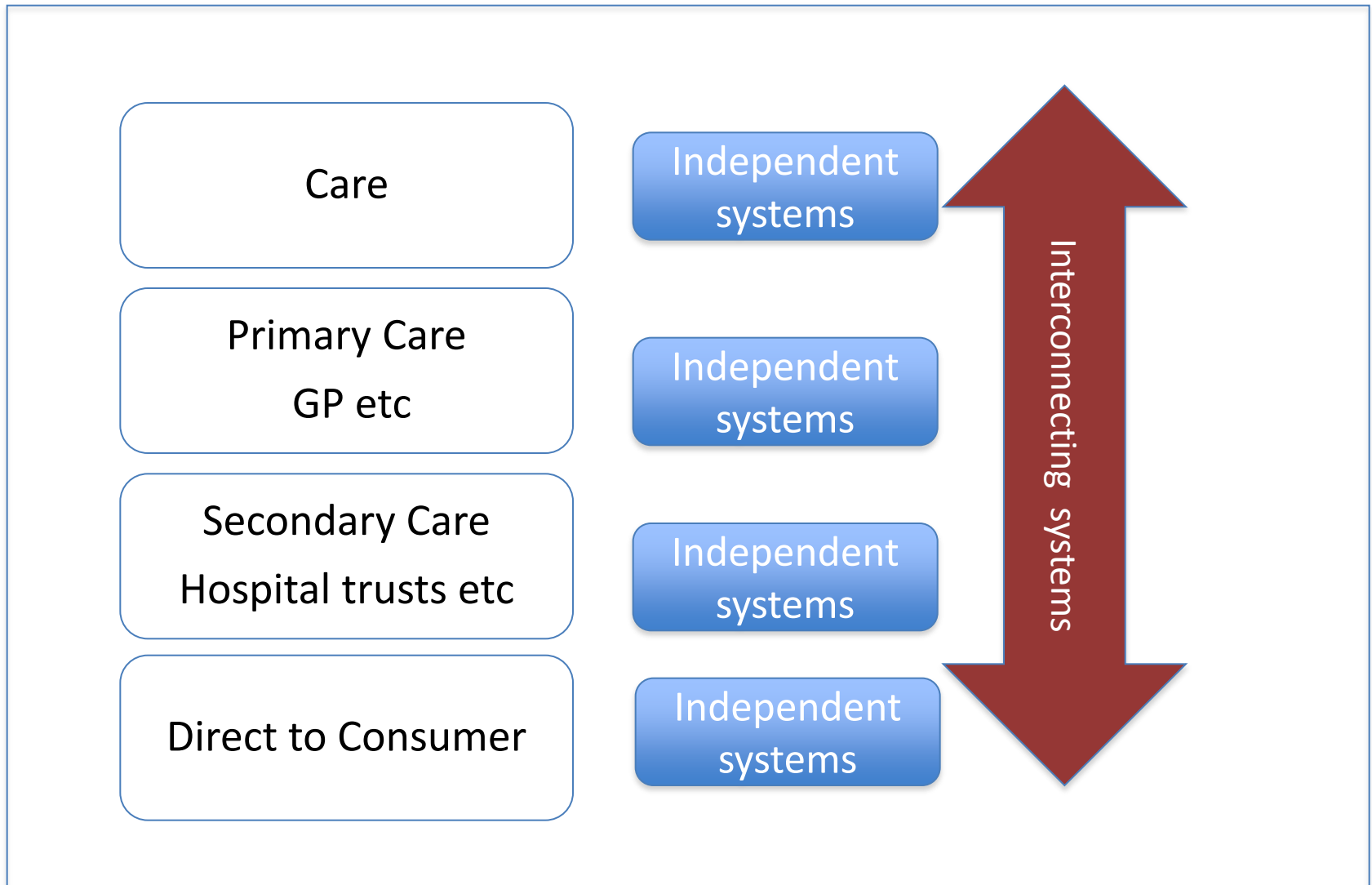
# Stratified Medicine – public dialogue



- **Definition and communication**
- **Implications for patients and care**
- **Social issues and consequences**
- **Research, testing and data sharing**



# Large requirement for interoperability and linkage



We can't stop thinking  
about the future

**Innovate UK**

North Star House, North Star Avenue, Swindon SN2 1UE

Tel: +44 (0)1793 442 700

Email: [support@innovateuk.gov.uk](mailto:support@innovateuk.gov.uk)

[www.innovateuk.gov.uk](http://www.innovateuk.gov.uk)