Exploiting Innovation in Healthcare
UK Experience: Universities, Hospitals and the NHS

Tom Hockaday
technology transfer innovation

www.techologytransferinnovation.com   @TomHockadayOxon
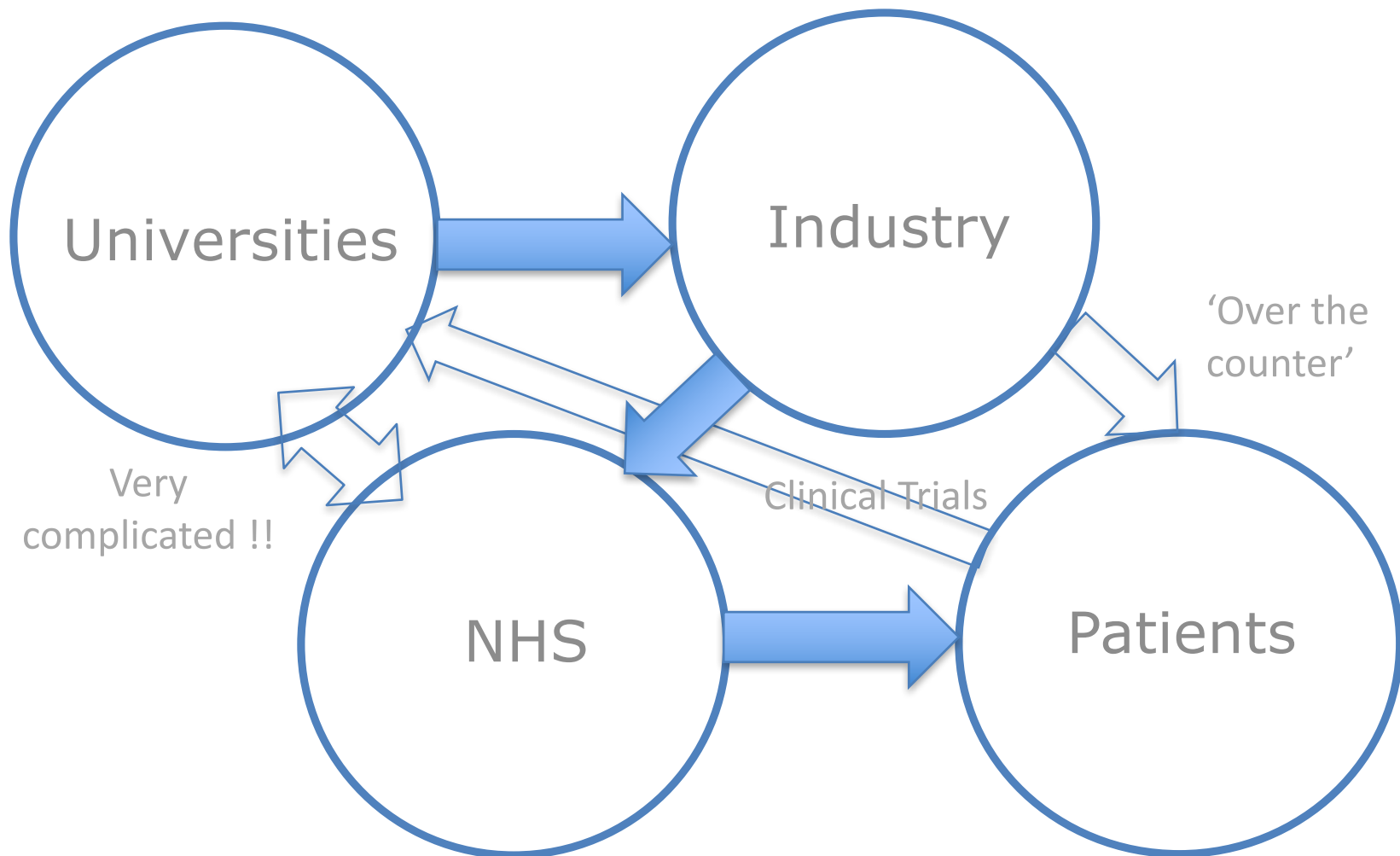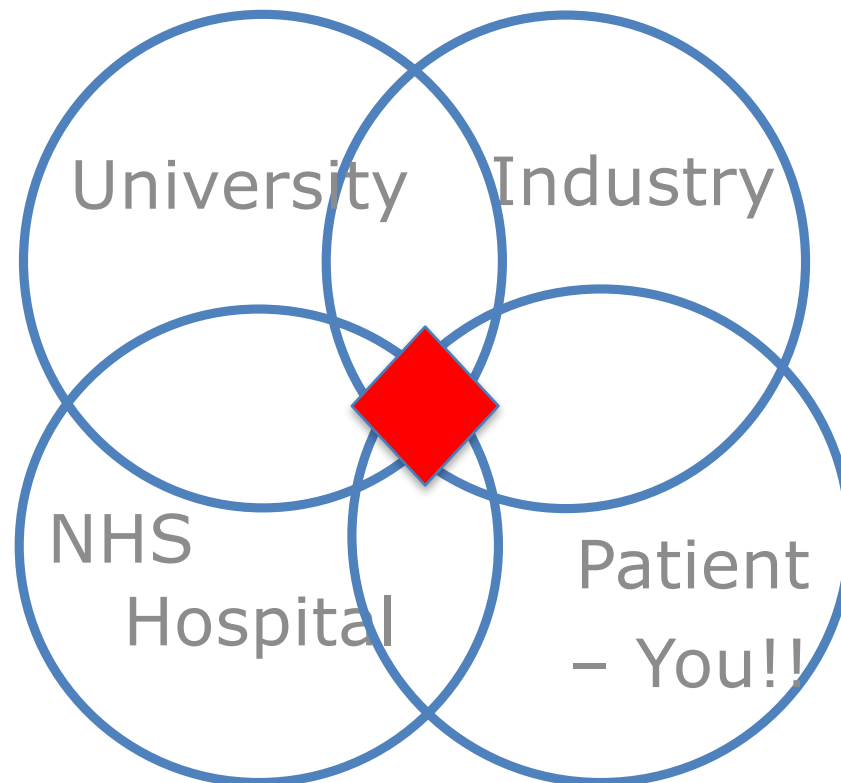
Who is involved?

Universities

Industry

NHS
General Practice
Hospitals

Patients

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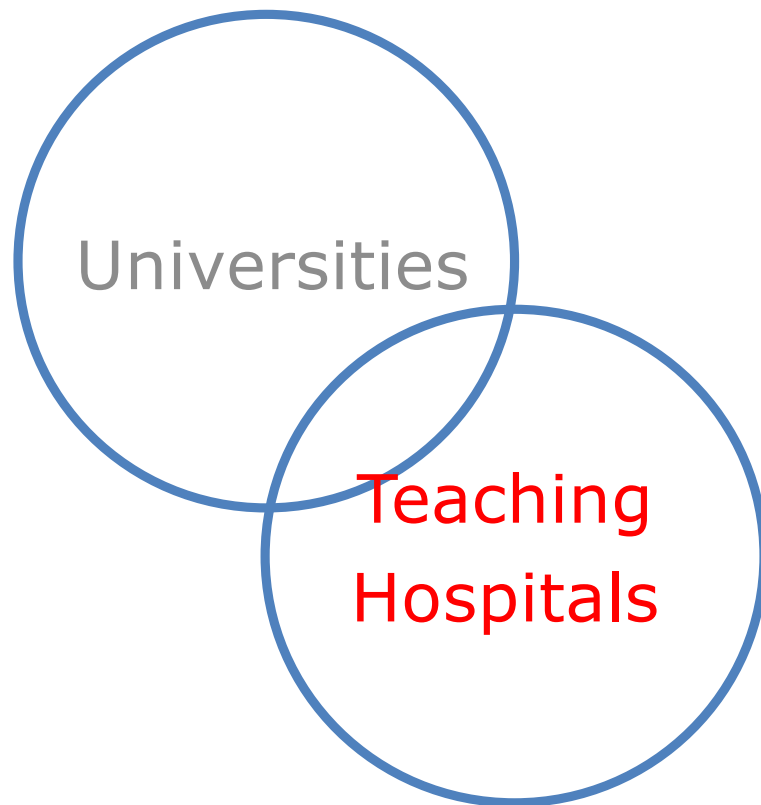**Universities**

Independent Charities
- Publicly funded

Small number of private universities

NHS
General Practice
Hospitals

National Health Service
- Publicly owned & funded
- GP's
- Hospital Trusts

Small number of private hospitals

Increasing number of private industry suppliers

Who is involved?

Universities

Teaching Hospitals

Eg:
Oxford University Hospitals NHS Foundation Trust
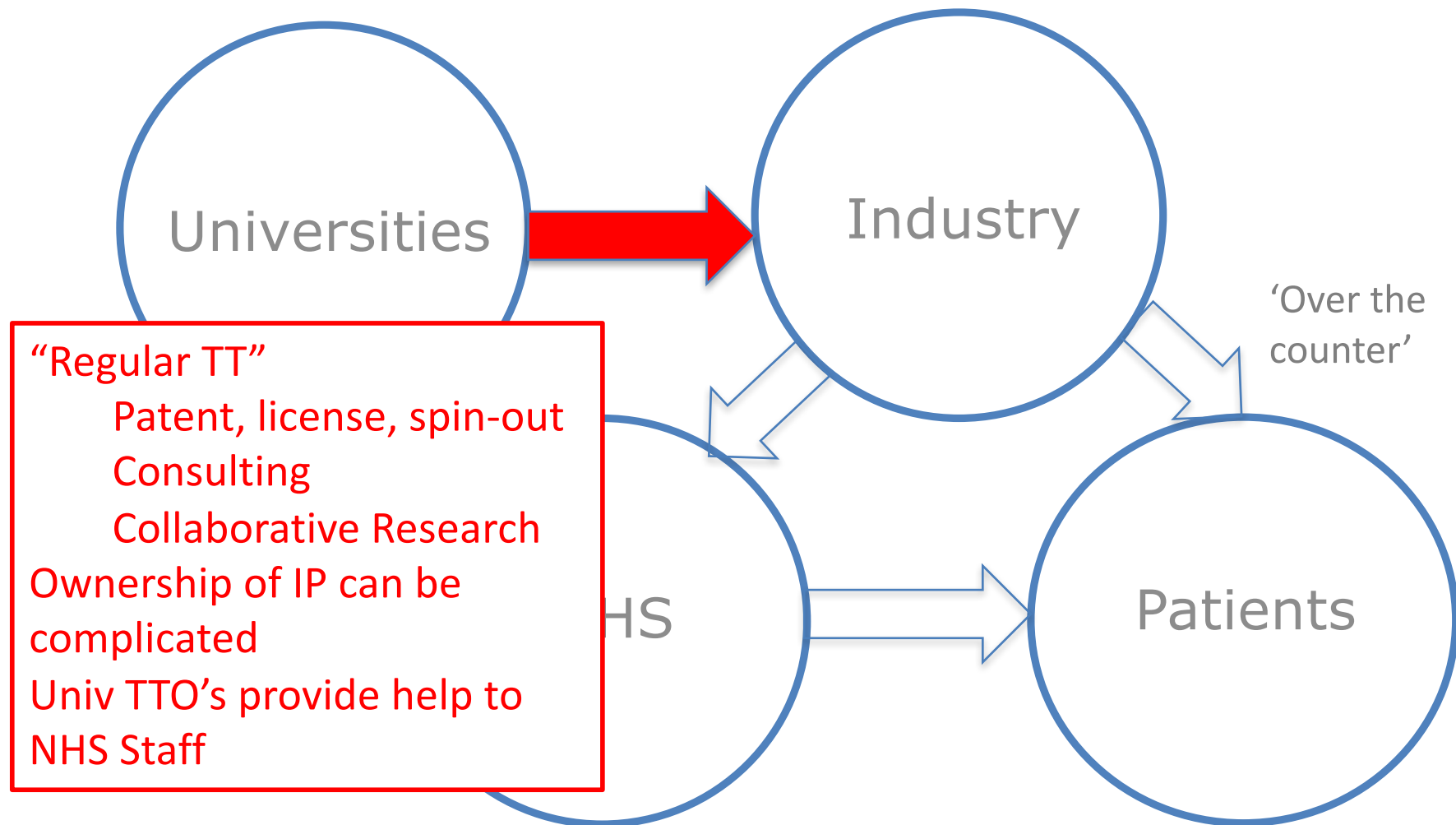
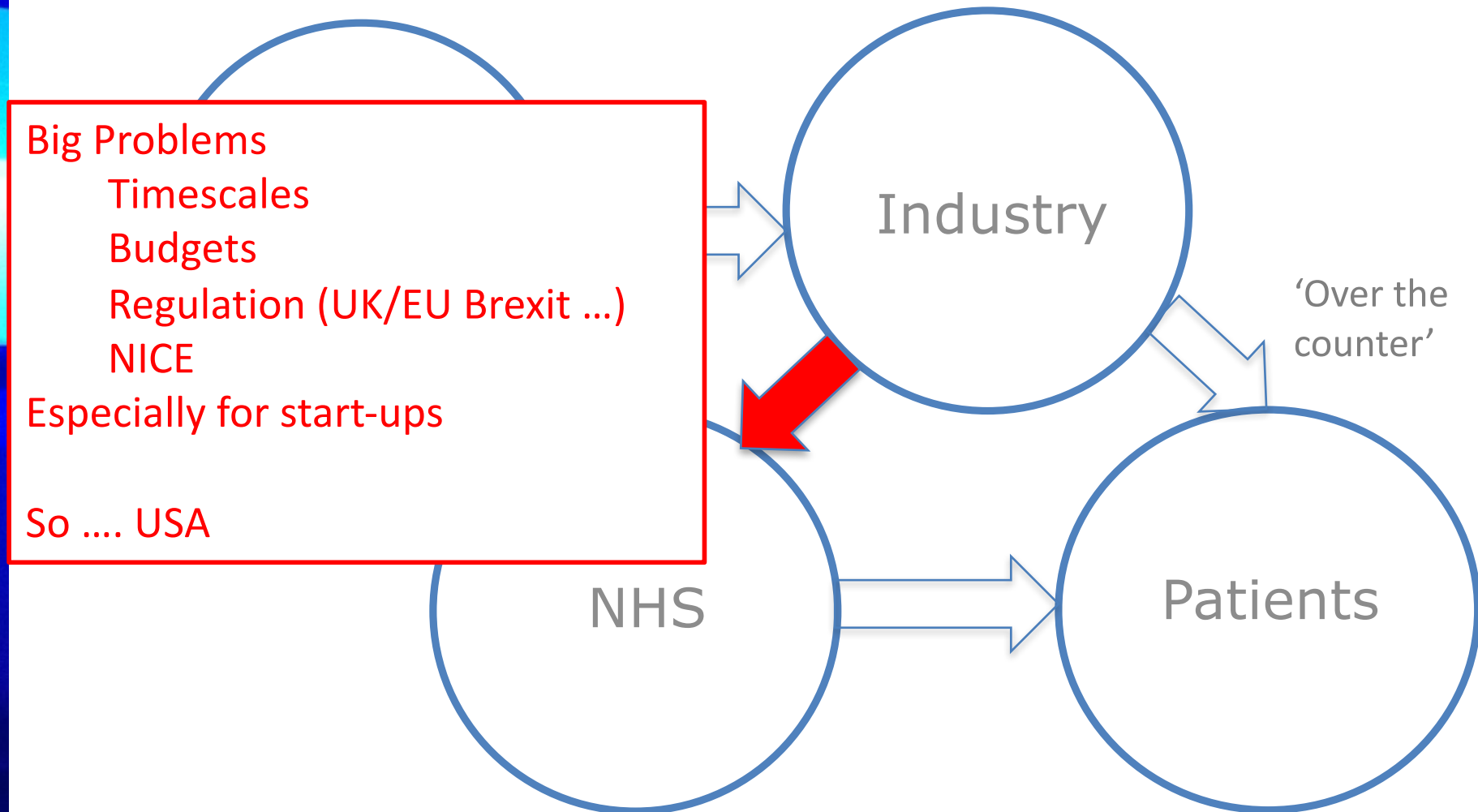Cambridge University Hospitals NHS Foundation Trust

~ 20 in UK

Challenges:
- Joint appointments
- IP ownership
- Employee rights

Access to Patients for Clinical Trials

University TT

Universities

Industry

NHS

Patients

'Over the counter'

"Regular TT"
    Patent, license, spin-out
    Consulting
    Collaborative Research
Ownership of IP can be complicated
Univ TTO's provide help to NHS Staff

The Buyer

Big Problems
    Timescales
    Budgets
    Regulation (UK/EU Brexit …)
    NICE
Especially for start-ups

So …. USA

Industry

'Over the counter'

NHS

Patients

NHS

- National Health Service

- FREE care for all at the point of delivery

- 5 July 1948 (annual budget £437m [=£15Bn today])

- Paid for by ... taxation (*me ...*)

- Department of Health - £123 Bn pa.

- 1 / 5th Total UK Govt Expenditure
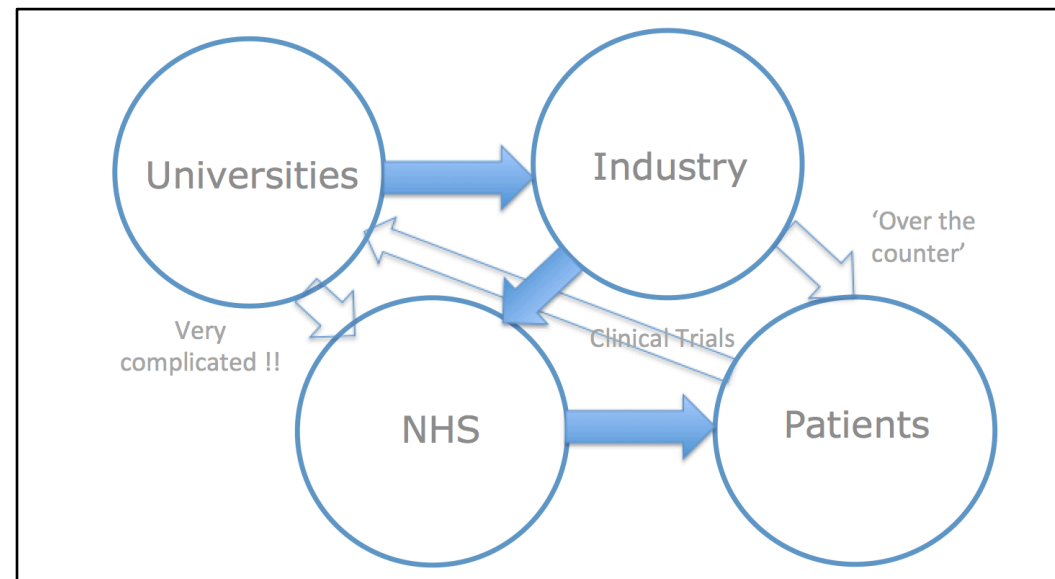
- 2 x Education

- 3 x Defence

NHS & Innovation

- NHS Institute for Innovation and Impact *(closed 2013)*

- National Innovation Centre *(closed)*

- NHS Improving Quality *(became ...)*

- The Sustainable Improvement Team

- NHS Innovation Hub Network

  - Eg NHS Innovation South East – since 2004

- NHS Innovation Accelerator

  - Accelerating uptake of high impact innovations

- NHS National Institute of Health Research

  - To improve the health and wealth of the nation through

IMPACTS

AHSN

- Academic Health Science Network

- 15 in UK

- Eg "Oxford Academic Health Science Network"

- Only activity that brings together **ALL** the partners in a region

AHSN Examples

- www.ahsnnetwork.com

- 1. Improve Health and 2. Generate Economic Growth

- Patient Safety

- Diffusion of ideas

- Low-tech, example:
    - Improving nutrition in patients
    - Text messaging support for vulnerable young people

- Better diabetic foot ulcer imaging
    - New 3D wound imaging Silhouette® to community clinics

Oxford Examples

Pharmaceuticals / NCE / Drugs

    1999 Avidex to 2008 Immunocore / Adaptimmune

    2002 Summit plc - Duchenne Muscular Dystrophy

MedTech / Medical Devices

    1995 OGT - Molecular genetics, CytoSure™, SureSeq™

    2015 OxEHealth - cameras into 'vital signs' health monitors

Clinical Outcome Assessment / Patient Reported Outcome
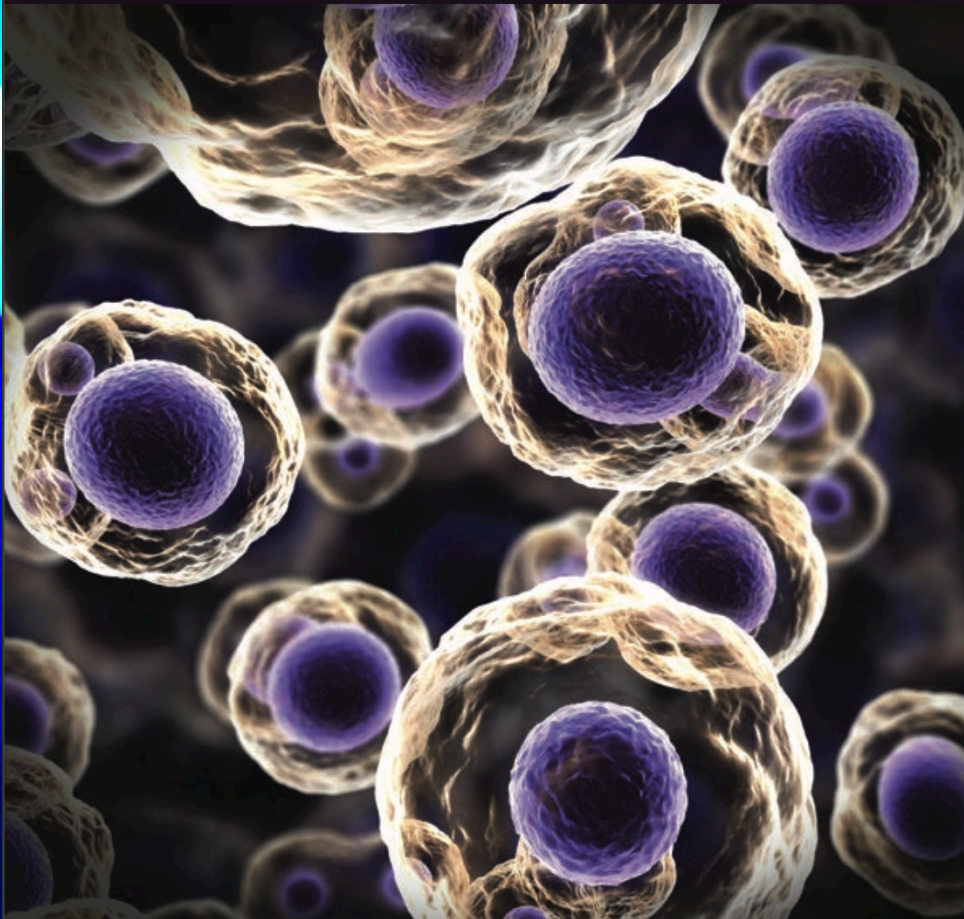
    Oxford Shoulder Score, Oxford Hip & Knee Score

    Oxford Depression Score

Clinical Trial Service Unit

    Cardiovascular, Diabetes, Cancer

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Life Sciences Industrial Strategy

– A report to the Government from the life sciences sector

August 2017

Science:

Continued support for the science base, maintaining strength and international competitiveness.

Growth:

An environment that encourages companies to start and grow, building on strengths across the UK, including expansion of manufacturing in the sector.

NHS:

NHS and industry collaboration, facilitating better care for patients through better adoption of innovative treatments and technologies.
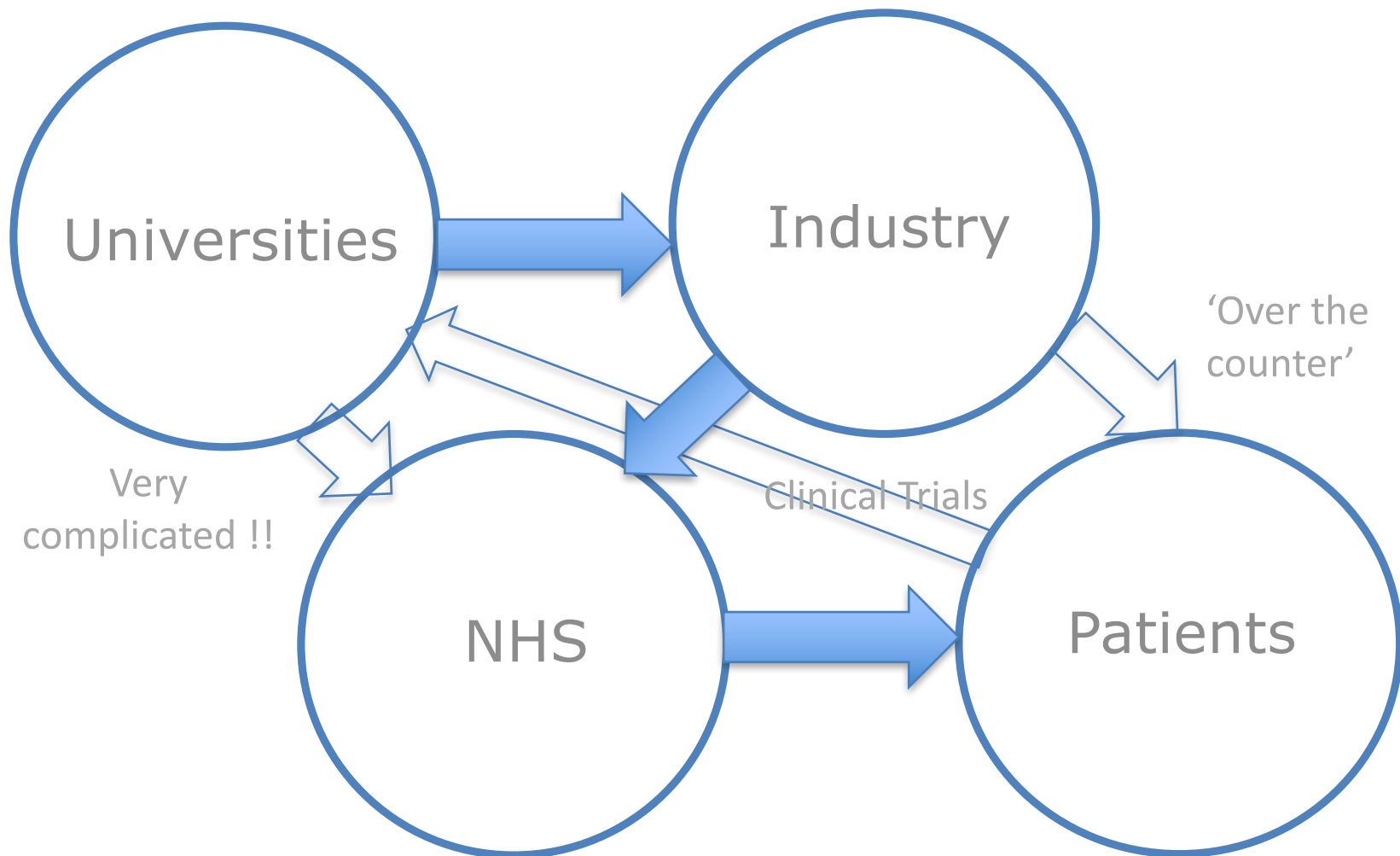
Data:

Making the best use of data and digital tools to support research and better patient care.

Skills:

Ensuring that the sector has access to a pool of talented people to support its aims through a strong skills strategy.

Who is involved?

Universities → Industry

Very complicated !!

Clinical Trials

'Over the counter'

NHS → Patients

TECHNOLOGY TRANSFER INNOVATION

Tom Hockaday

Tom Hockaday is a leading expert in university technology transfer leadership, management and activities. He led the technology transfer activities at the University of Oxford for ten years from 2006 to 2016, having started at Oxford in 2000. Tom has over 27 years experience in this field.

Tom Hockaday is an independent private consultant, working with a number of clients in the university technology transfer sector.

CONTACT