



## **Dr Helen Hunt - Portfolio Manager**

Nanoscience through Engineering to Application

Toward Next Generation Healthcare

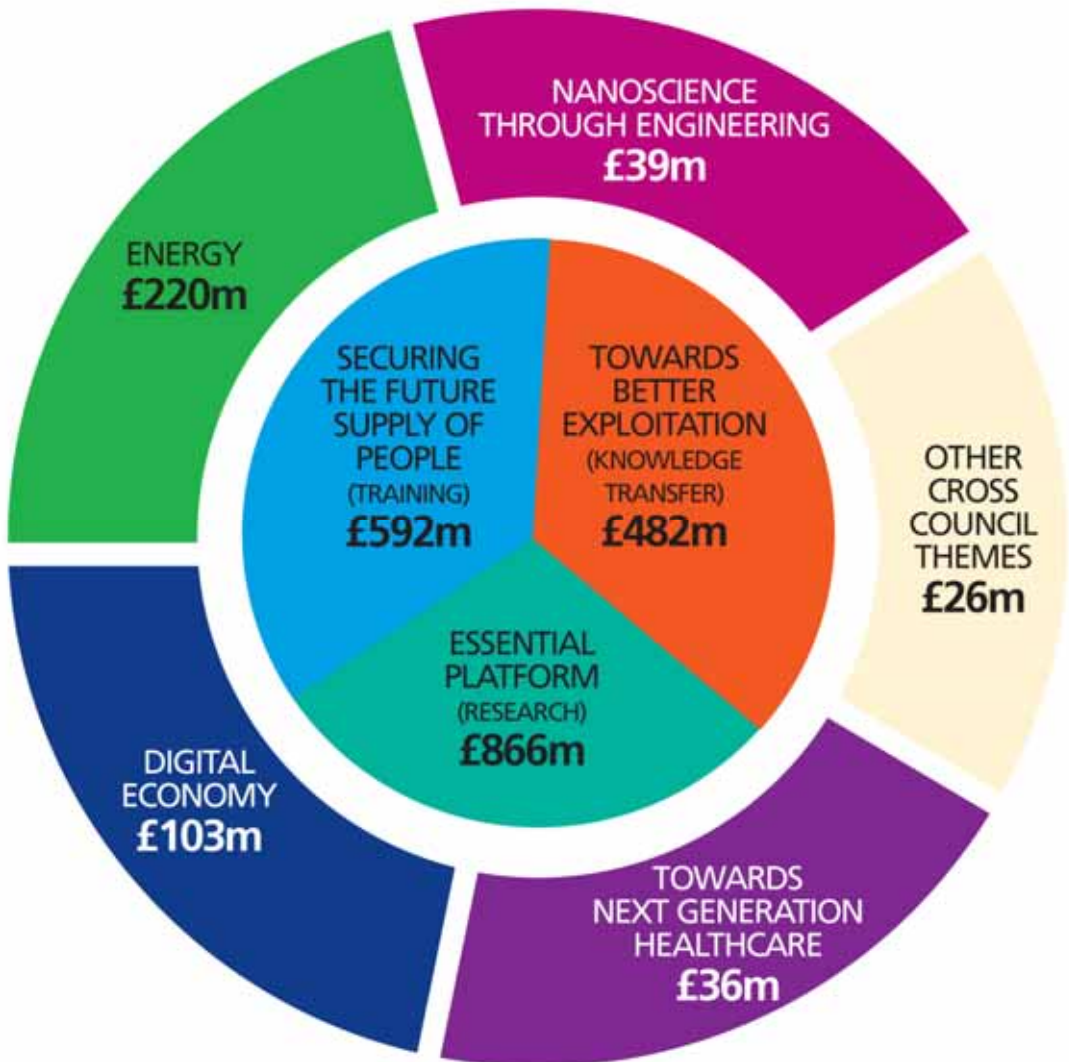
Business Innovation, EPSRC

Medical Engineering, Research Base





# THE WHOLE EPSRC PICTURE



Living with environmental change (£9M)  
 Global threats to security (£6M)  
 Ageing: life-long health and wellbeing (£11M)

*Values are  
commitment 2008-11*



# Towards Next Generation Healthcare



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[www.epsrc.ac.uk](http://www.epsrc.ac.uk)



## TOWARDS NEXT GENERATION HEALTHCARE

TOWARDS  
NEXT GENERATION  
HEALTHCARE  
**£36m**

EPSRC is working in partnership, to support strategically important healthcare and ageing research for the benefit of UK citizens, where:

- engineering, physical sciences and mathematical sciences can make a meaningful contribution
- we can accelerate exploitation of research outputs for health and socioeconomic benefit

## Healthcare Challenges

- UK Healthcare Model – “get sick, get well” – not sustainable
- Ageing population and demographic change (~1/4 of the population over 65 by 2050)

# Towards Next Generation Healthcare

## What is it?

Working in partnership to support a multidisciplinary approach to healthcare and ageing research for the benefit of UK citizens.

**e.g. research contributing to predictive, pre-emptive and personalised healthcare**

## How?

EPSRC can facilitate the exploitation of research outputs for health and socioeconomic benefit.



# Towards Next Generation Healthcare Overview

## Large Partnerships



## Cross Council Programmes

- > Lifelong Health and Wellbeing led by MRC
- > Digital Economy led by EPSRC

## Alignment and co-funding with other funders of research

- > NHS National Institute for Health research
- > Nation Prevention Research Initiative
- > Technology Strategy Board
- > Department of Health





## Recent Funding Opportunities

### **Nanotechnology Grand Challenges in Healthcare: A Cross Research Council Programme led by EPSRC**

- Nanotechnologies for the targeted delivery of therapeutic agents,
- Nanotechnologies for diagnostics.
- Closing date 5<sup>th</sup> August 2008.

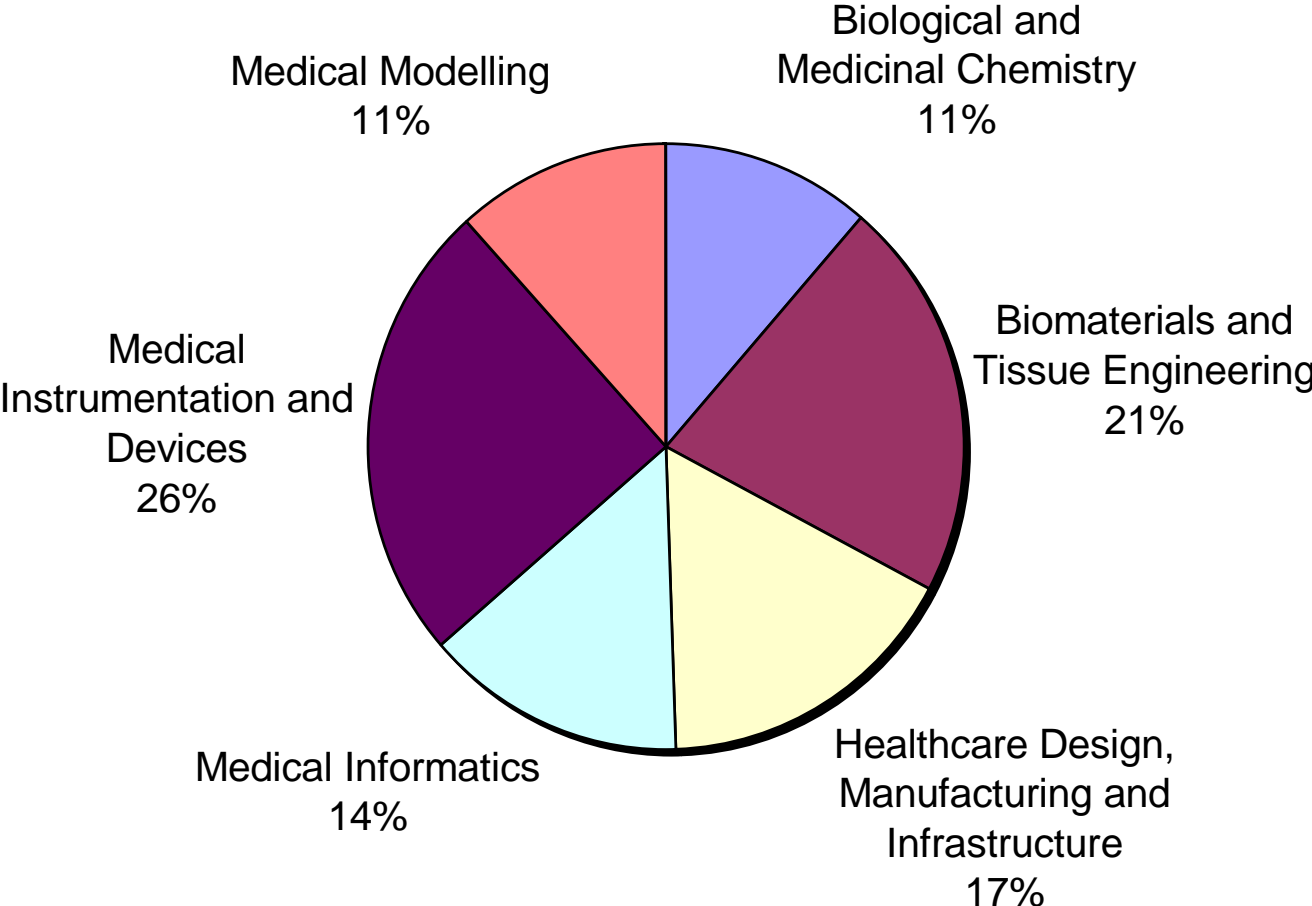
### **Lifelong Health and Wellbeing: A Cross Research Council Programme led by MRC**

### **New Dynamics of Ageing: A Cross Research Council Programme led by ESRC**

- Closing date 26<sup>th</sup> June 2008



# Research Relevant to Healthcare Sector



£372 M over 782 grants



## Spectrum of EPSRC Funding

- Multidisciplinary Assessment of Technology Centre for Healthcare (MATCH) IMRC, Brunel.
- Portfolio Partnership: Tissue Regeneration and Replacement, Leeds.
- Regenerative Medicine, Loughborough.
- Fast Field-Cycling Magnetic Resonance Imaging, Aberdeen.
- Strategic promotion of ageing research capacity (SPARC), Reading.
- EQUAL (Extending Quality of Life) Initiative Consortia