

# Research funding to address global challenges

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# Research system

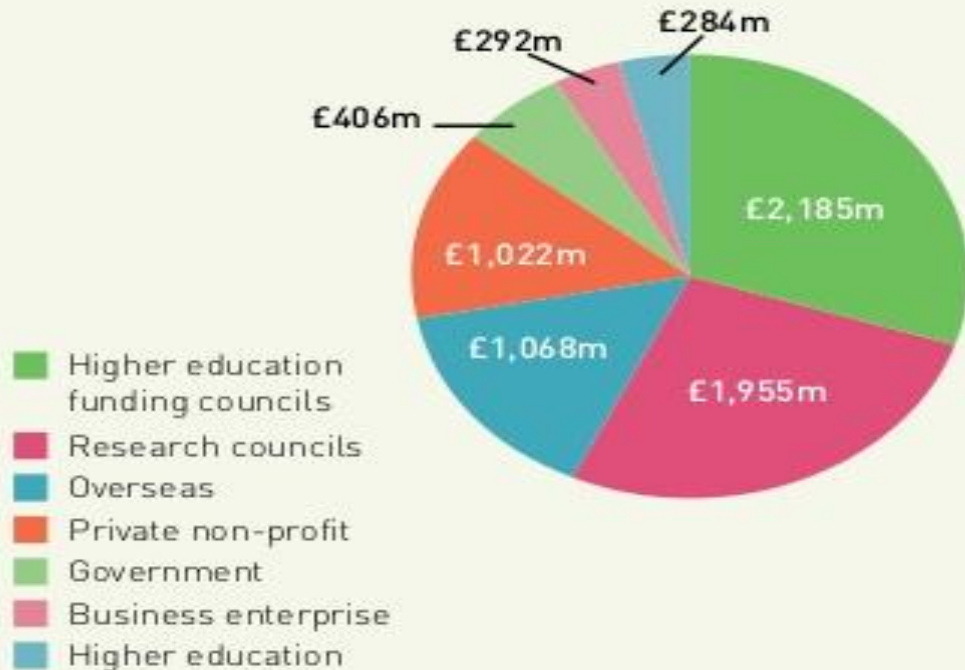
- Dual support system
- HEFCE block grant and Research Excellence Framework
- Research Councils grants peer reviewed
- Policy measures to encourage university-business interaction and invest in innovation
- Increasing importance of international and European income and policy
- 10-year science and innovation framework

# Research funding – many sources

## R&D performed in UK higher education institutions by sector of funding, 2012

- Under two-thirds of R&D performed in higher education institutions is funded by public sources, with the rest funded by UK businesses, charities, and public and private overseas investors.

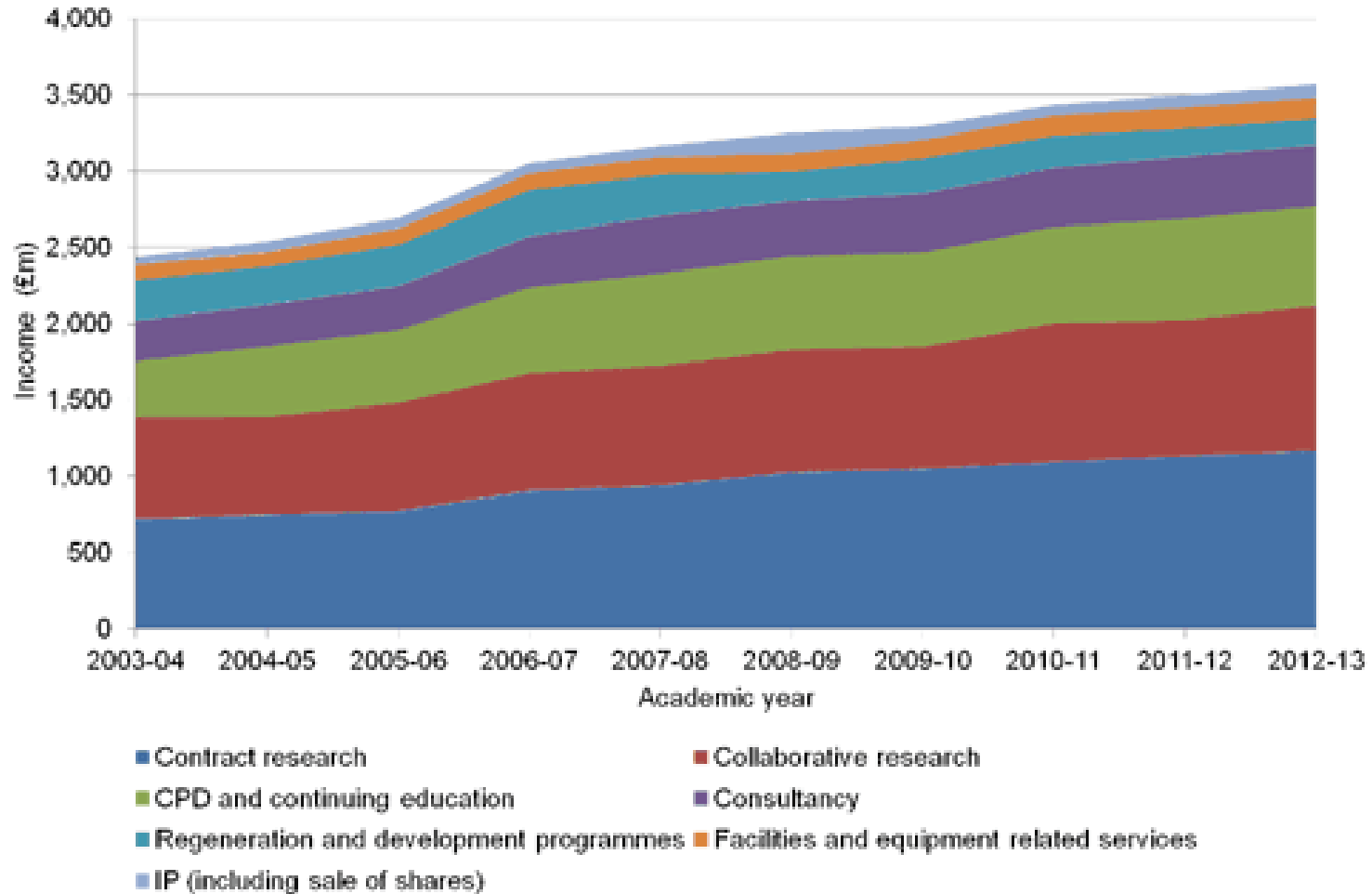
The work carried out by universities and research institutes produces substantial returns on public investment, which have been estimated at **20-50%**



# University-industry collaboration

international unit

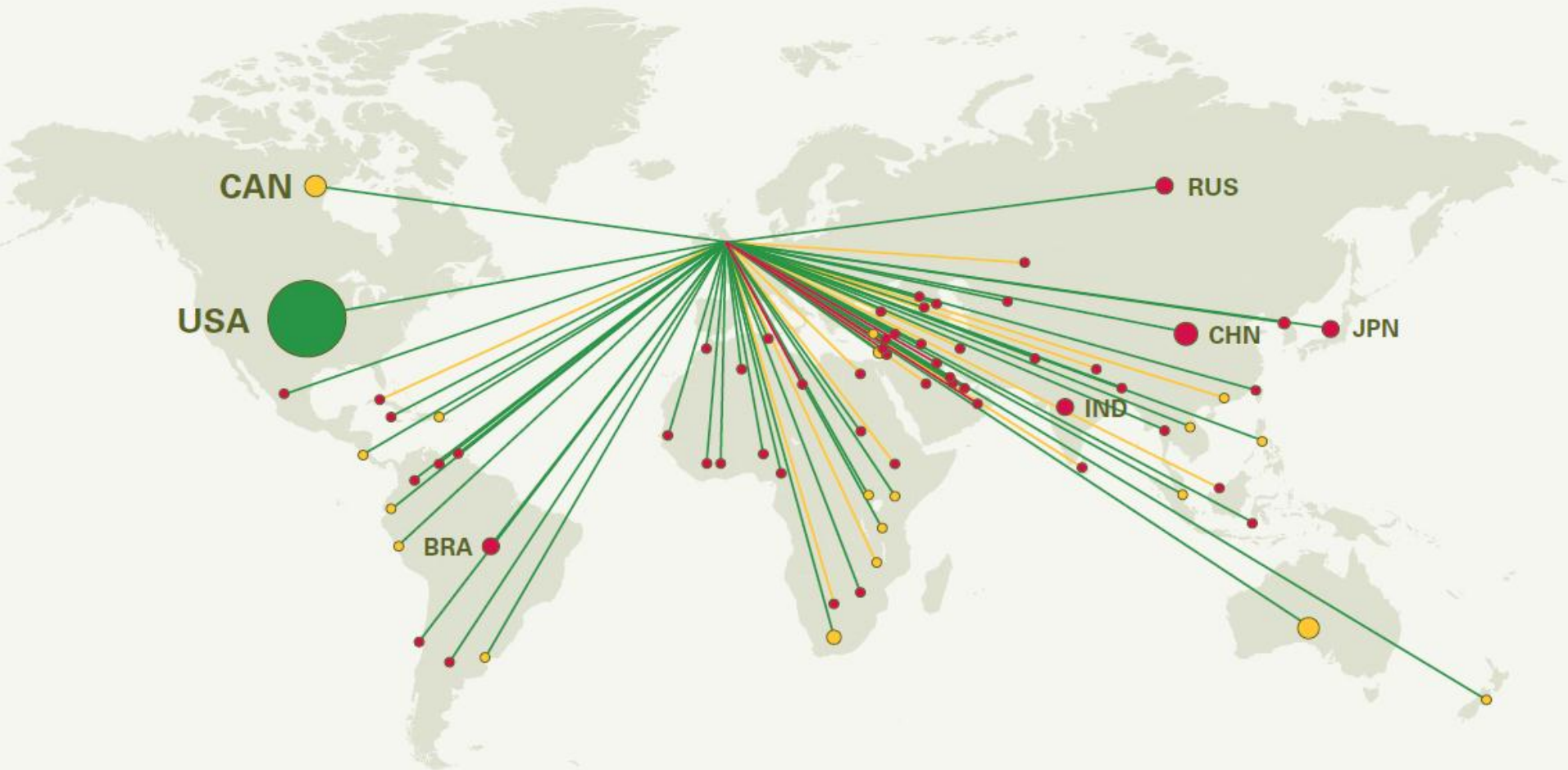
Selected HE-BCI income streams 2003-13 (real terms)



Note: 'CPD' = 'Continuing Professional Development'. Source: HE-BCI Part B Tables 1, 2, 3 and 4c

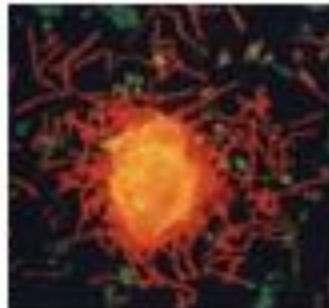
# UK higher education: international research collaboration

Figure 5.2 A: International collaboration map for the UK in the period 2006-2010, world excluding Europe.



# Newton Fund - vision

The UK will use its strength in research and innovation to **promote the economic development and social welfare of partner countries**. By working together on bi-lateral and multi-lateral programmes with a research and innovation focus, the UK will **build strong, sustainable, systemic relationships** with partner countries. This will support the continued excellence of the UK research base and innovation ecosystem and act as a golden key to unlock opportunities for wider collaboration and trade.



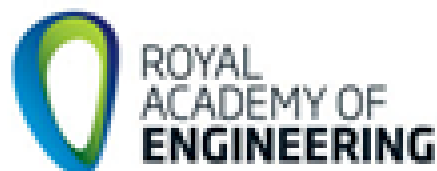
# The UK Delivery Partners

Our aim is to build strong, sustainable and systemic links between every part of our research base and innovation ecosystem – and every part of yours



Department  
for Business  
Innovation & Skills

**Technology Strategy Board**  
Driving Innovation



UK Science  
& Innovation  
Network



Foreign &  
Commonwealth  
Office

**THE  
ROYAL  
SOCIETY**



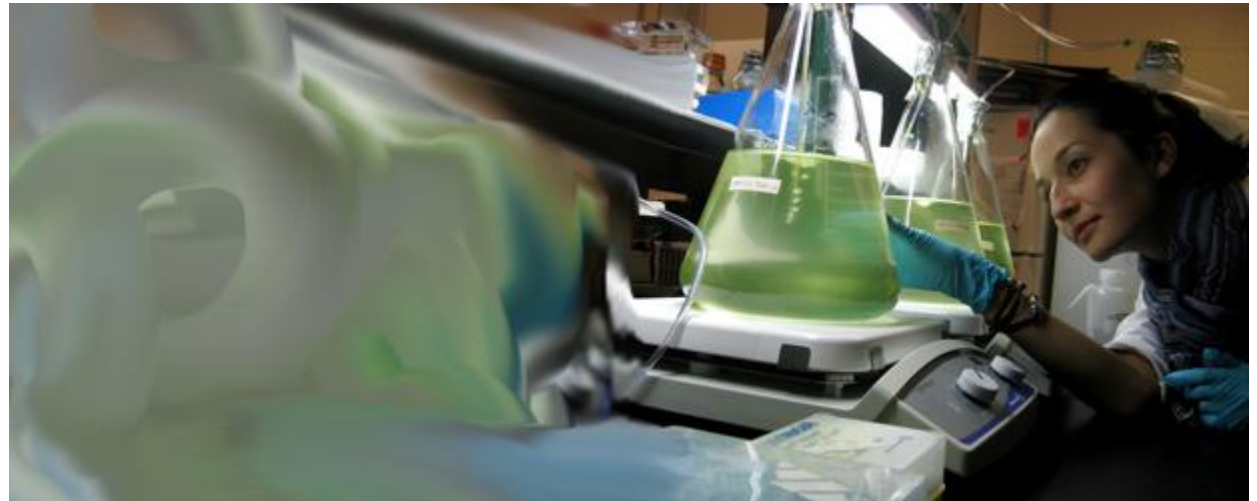
# Newton in Indonesia

- £2m per annum for five years (to be matched by Indonesian partners)
- Overseas Development Aid
- Three pillars
- Five core themes:
  1. Health and life sciences.
  2. Environmental resilience and energy security.
  3. Future cities.
  4. Agriculture
  5. Digital, innovation and creativity.



# Global Innovation Initiative (GII)

- A joint programme: UK and US Governments and British Council
- Aim to foster **Trilateral** international academic collaboration.
- Targeted partnerships with higher education institutions in Indonesia, Brazil, China and India.
- Grants of up to £150,000 (\$235,000) per partnership



# Successful Indonesia-UK bids

- **Ensemble Estimation of Flood Risk in a Changing Climate**  
Swansea University (UK), University of Maine (U.S.), Sichuan University (China), Hohai University (China), Indian Institute of Technology Bombay (India), and Bandung Institute of Technology (Indonesia)
- **Environmental DNA for Rapid Assessment of Biodiversity and Conservation Priorities in Indonesia**  
Bangor University (UK), University of California Los Angeles (U.S.), and Udayana University (Indonesia)
- **Aquaculture Carrying Capacity and Water Quality in Indonesian Lakes and Reservoirs** University of Rhode Island (US), University of Stirling (UK), and Institut Pertanian Bogor (Indonesia)



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**Thank you**

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