



**UK Research  
and Innovation**

# Research and Innovation in the UK

- The UK has an exceptional track record in research and innovation across disciplines and sectors
- We have the opportunity to use this impressive national strength to deliver a sustainable inclusive knowledge economy and world-leading public services
- Our size and strength mean we can capture strategic advantage in science and technology through creative co-ordination and agility
- UKRI is a crucial national asset in achieving this goal

# UK Research and Innovation

- We are the largest public funder of R&I in the UK
- We bring together nine councils covering all sectors and disciplines
- We are a public body and accountable to government
- We are part of a system, working with academia, business, public sector, third sector, and international partners

# The UKRI Investment Portfolio

## Inputs

## Outputs

## Impacts

In 21/22 we will invest (% of budget):



£690m in **PhD students/skills** (9%)  
£180m in **fellowships** (2%)



£950m in **responsive research** (12%)  
£530m in **research targeting priorities** (7%)



£1,680m in **university research** (QR) (21%)  
£980m in **infrastructure** (12%)  
£850m in **research institutes** (11%)



£540m in **challenge-led funding** (ISCF) (7%)  
£530m in **responsive innovation** (7%)  
£240m in **Catapults** (3%)



£480m in **international collaboration** (6%)



£390m in **targeted Covid-19 funding** (5%)



Funding **54,000 researchers and innovators** and more than **300** nationally significant **infrastructures**



Training over **28,000 PhD students** and **1,600 fellows**



Delivering R&D in almost **4,000 organisations**, including **3,100** of the UK's most **innovative businesses**



Delivering **government priorities** such as Net Zero, public health, strategic technologies – our current investment portfolio is delivering **more than £1bn in R&D relevant to AI** and **more than £1bn in R&D relevant to Net Zero energy solutions**.



Investing in **all regions of the UK** and **building partnerships overseas** – over one third of our grant funding includes an international partner



### New breakthroughs and discoveries

The success of the Oxford-AstraZeneca vaccine built on decades of in-depth research, underpinned by UKRI funding.



### Attracting private investment

Our third wave of challenge-led R&D will attract £1.50 from industry for each public £1 invested over its lifetime, and more beyond.



### Creating new businesses

UKRI grants have generated almost 900 spinouts since 2004, such as Oxford Nanopore, a biotech success story commercialising DNA sequencing technology now valued at £2.5bn.



### Unleashing innovation and economic growth

Firms participating in UKRI funded research saw their average turnover grow by c.25% faster in the six years after the grant.

Our Higher Education Innovation Fund connects university research to businesses and society, achieving a RoI of £9 per £1 invested.

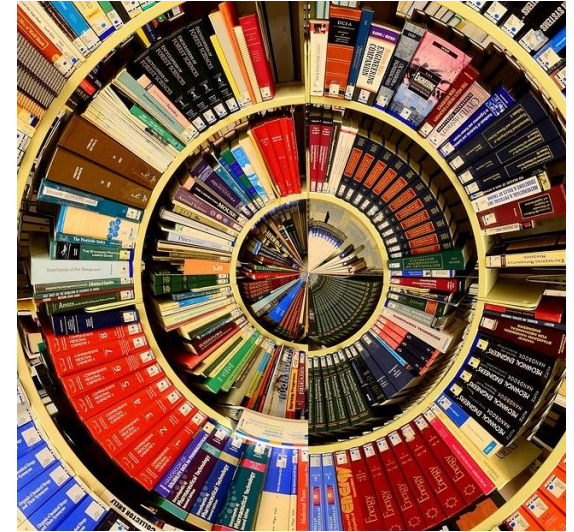


### Improving lives across society

UKRI funded research outlining the science behind how children learn to read is transforming the way reading is taught in classrooms around the world and helping potentially millions of children improve their life chances through better literacy skills.

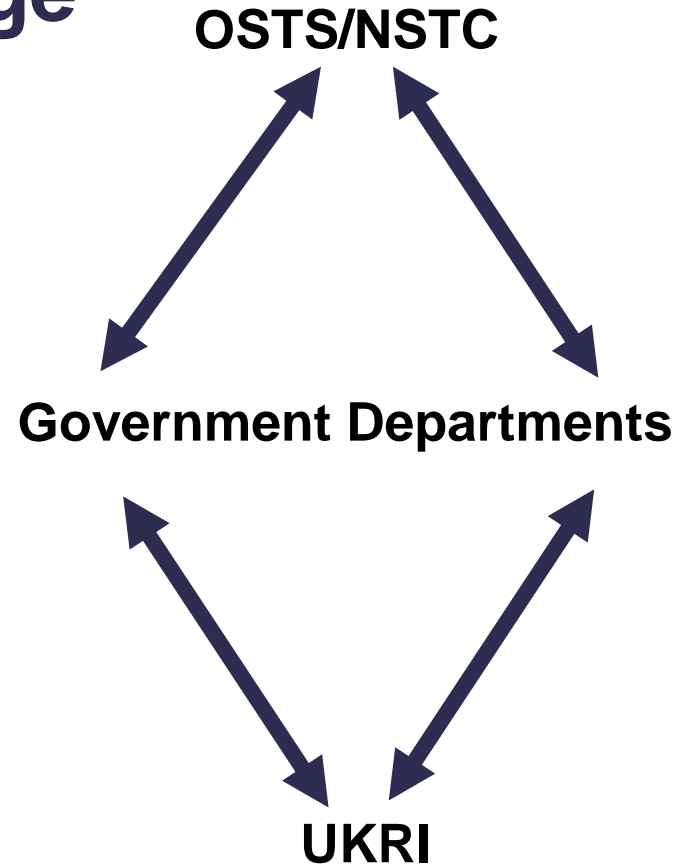
# Portfolio management

- Data and analysis capabilities on domestic and international R&I strengths and opportunities
- Co-ordinated investment across the system to deliver key priorities
- Balancing targeted investment in current priorities and opportunities, with open investment in the future
- Connecting up the system so that people and ideas move more freely across it



# Capturing strategic advantage

- Sustainable environment and Net Zero
- Health and life sciences
- UK national security and defence, including space
- A digitally and data-driven economy





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# Thank you



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