
UK Research
and Innovation



Sir Mark Walport
CEO UKRI
11th February 2019

UKRI Foundations

- Dainton report 1971 – framework for Government R&D
- Sir Paul Nurse review 2015 –
- Called on govt. to "support the Research Councils to collectively make up more than the sum of their parts"
- Funding should “improve agility to respond to new initiatives and when necessary promote reallocation of resource”
- UKRI created in response



The image shows the cover of a report titled "Ensuring a successful UK research endeavour". The title is in a blue serif font. Below the title is a horizontal blue line. Underneath the line, the subtitle "A Review of the UK Research Councils" and the author's name "by Paul Nurse" are written in a smaller, blue sans-serif font.

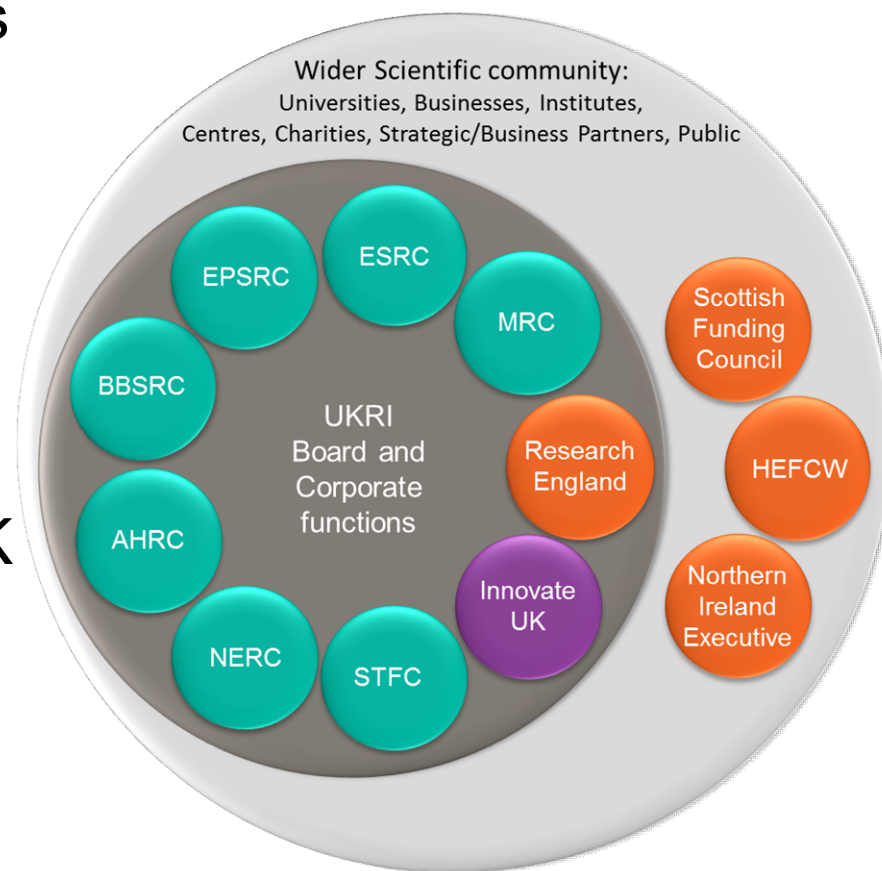
**Ensuring a successful
UK research endeavour**

A Review of the UK Research Councils
by Paul Nurse

UK Research & Innovation

UK Research and Innovation is the new funding organisation for research and innovation in the UK.

Brings together the 7 UK research councils, Innovate UK and a new organisation, Research England, working closely with its partner organisations across the UK.



The numbers

- **More than £7 billion** in combined budget per year
- **3,900** research and business grants issued every year
- **2,400** business-led collaborative projects and over 200 Knowledge Transfer Partnerships
- **151** UK universities receiving research funding
- **38** institutes, laboratories, units, campuses and innovation catapults

Our objectives

Delivering UKRI's vision and target of 2.4%

Deliver economic impact
and social prosperity

Enriched, healthier, more
resilient and sustainable
society

Push frontiers of human knowledge and understanding

Best environment for research and innovation

Global Britain

Leading talent

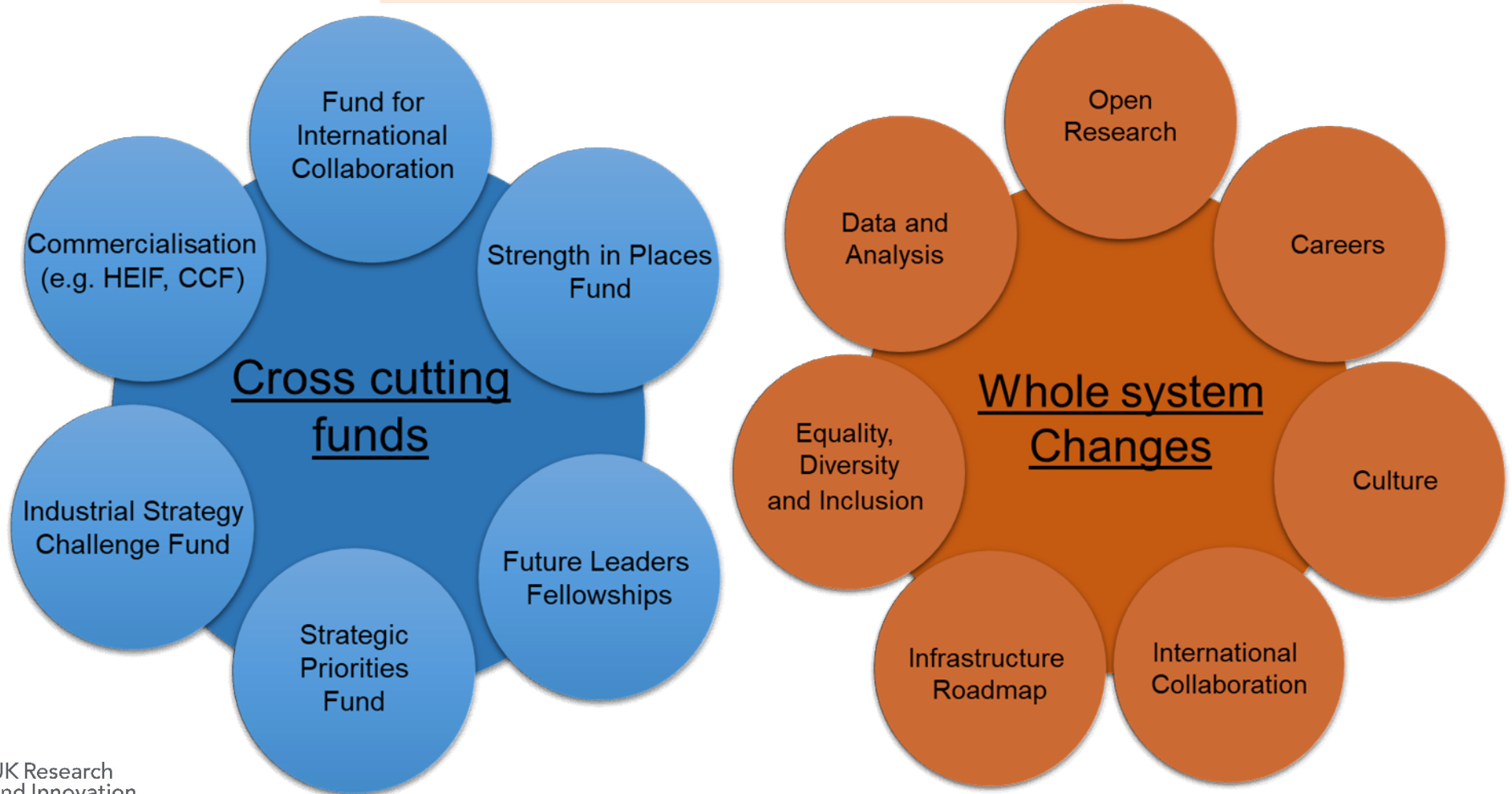
Trusted and
diverse system

Infrastructure

UKRI as an outstanding organisation (corporate plan)

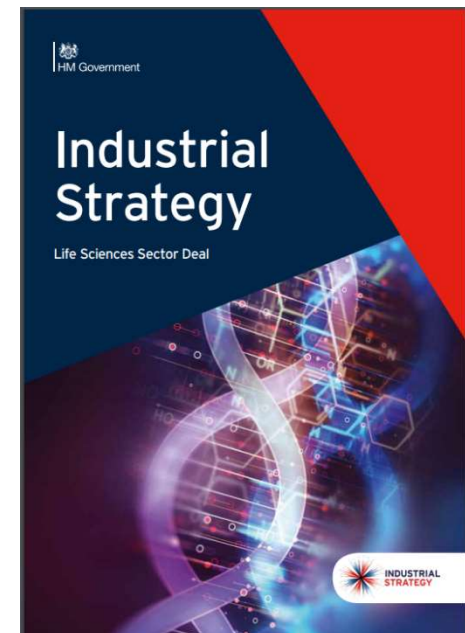
Early Priorities for UKRI

Delivering UKRI's vision and the Government target of 2.4% of GDP spend

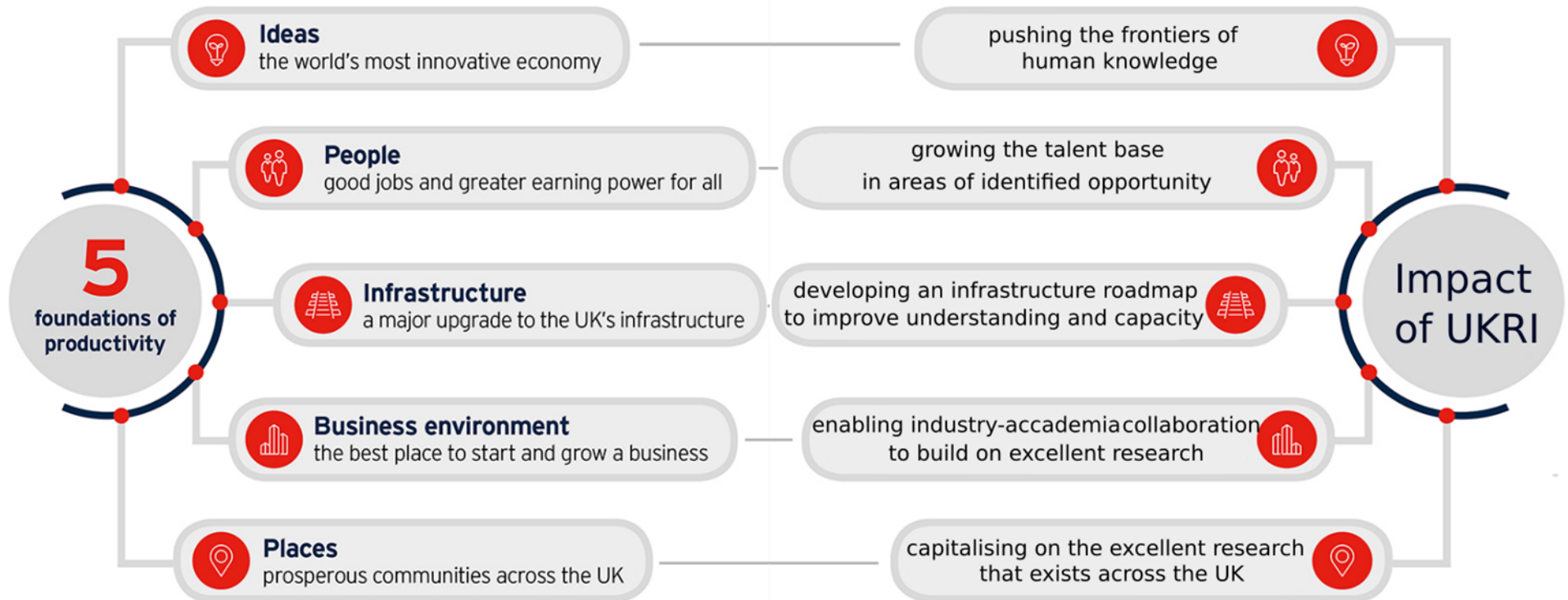


UK Industrial Strategy

- Published 2017
- Long-term plan to boost productivity & earning power throughout the UK
- Strategic partnerships between govt. and industry, e.g. on sector-specific issues
- Make the UK the best possible place for researchers & innovators
- Drive partnerships between best minds & businesses
- Drive investment in R&D so that public, private & voluntary sectors will meet the 2.4% GDP target



Foundations to the Industrial Strategy



ISCF and the Grand Challenges

How the ISCF challenges fit with the Industrial Strategy Grand Challenges



Clean growth

Energy revolution

Transforming construction

Transforming food production

Driving the Electric Future

Ageing Society

Medicines manufacturing

Data to early diagnosis and precision medicine

Healthy ageing

Leading-edge healthcare

Future of mobility

Faraday battery challenge

Robotics for a safer world

National space test facility

Manufacturing and future materials

Artificial intelligence and data economy

Audience of the future / Robotics / Next generation services (pioneer) / Quantum technology (pioneer) / Commercialising Quantum Technology / Manufacturing Made Smarter

International Collaboration

- Global Challenges Research Fund
- Newton Fund
- £110m Fund for International Collaborations
- Within UKRI, international strategy and policies (including GCRF and Newton Fund) are managed centrally



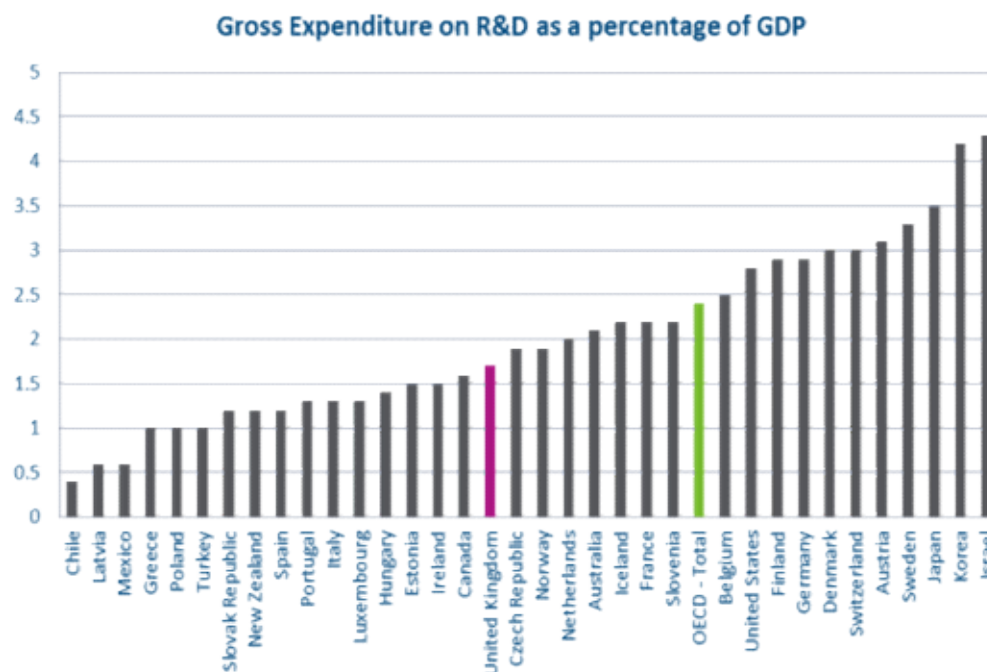
Infrastructure Roadmap



- Identify future R&I infrastructure capability priorities
- Identify opportunities for increasing inter-connectivity
- Support development of UKRI's overall long-term investment plan
- Promote UK capabilities as a global leader in research and innovation
- Set out the trajectory and major steps needed to reach the long term vision

Working towards 2.4%

- 10 year vision with universities playing central role
 - 2.4% of GDP investment in R&D by 2027
 - Reaching 3% in the longer term
 - Additional £7bn by 2021/22



Source: OECD STI. Data is the latest available for each country.

UKRI – FAPESP Partnership

- Since April 2012, the research councils have funded 260 grants involving researchers based in Brazil, with a total value of just over £136million.
- FAPESP also a key partner through the Newton Fund, co-funding a range of activities, including a staff exchange between UKRI and FAPESP staff.
- Through the GCRF 24 projects with Brazil as a focus have been funded.



Newton Fund activities with FAPESP

- UK - Brazil Healthy Urban Living & the Social Science of the Food-Water-Energy Nexus (2015)
- MRC-Newton-Wellcome Zika Rapid response (2016)
- NERC - FAPESP Understanding and Sustaining Brazilian Biome Resources Call (2016)
- NERC - FAPESP Sustainable Gas Futures (2016)
- BBSRC - FAPESP Joint Pump - Priming Awards for AMR and Insect Pest Resistance in Livestock and Agriculture (2017)
- MRC - CONFAP Health Systems Research in Brazil Workshop and Research Networks Call (2017)
- RCUK/UKRI staff exchange programme (2017)
- NERC Latin American biodiversity Programme – Ecosystem services for sustainable development (2018)



Case Study: Informing a rapid response to Brazil's Zika epidemic

- Collaboration between Fundação Oswaldo Cruz Recife (Fiocruz) and the MRC-University of Glasgow Centre for Virus Research
- Informed policy and provided a basic understanding of the virus
- Among the first to push for recognition of the link between Zika and microcephaly in babies
- Trained staff at the Ministry of Health to use a new diagnostic method.
- Helped affected individuals – particularly poorer ones – receive low-cost and rapid diagnostics.
- Findings have enabled other research projects, including one looking into the creation of a vaccine.



Project leads:

- Rafael França (FunFundação Oswaldo Cruz – Recife); Alain Kohl (University of Glasgow)

Delivery partners:

- Medical Research Council (MRC) and São Paulo Research Foundation (FAPESP)

Total Budget:

- £221,947 (UK team), £110,291 (Brazil team)



UKRI – FAPESP MoU: 10 years on

- Signed in 2009, and renewed in 2015 for a further five years.
- Provides for a Lead Agency agreement between UKRI and FAPESP
- Strengthens existing research links and removes barriers to international research collaboration.
- Since the start of the agreement, UKRI has supported 32 grants, totalling over £16m.
- From 2019, EPSRC's Standard Grants programme will also be open to applications using the UKRI-FAPESP Lead Agency agreement.



Case Study: Perpetration of intimate partner violence (IPV) by males in substance abuse treatment

- Funded by ESRC and FAPESP through Lead Agency Agreement.
- Examined and compared prevalence and construction of IPV by males in substance abuse treatment in London and São Paulo
- Also reviewed current policies, protocols and treatment pathways
- Informed development of a cross-cultural capacity framework
- Local Learning Alliance networks were established in London and São Paulo to develop cross-sector solutions to this complex problem
- Reduce cost of IPV (£15 billion), assist approaches to IPV, and break intergeneration cycle of violence



Project leads:

- Gail Gilchrist (King's College); Ana Flávia Pires Lucas d'Oliveira (University of São Paulo)

Delivery partners:

- Economic and Social Research Council (ESRC) and São Paulo Research Foundation (FAPESP)

Total budget:

- £284,891 (UK team) and £60,000 (Brazil team)

UKRI – FAPESP: moving forwards

- Continue to collaboration through range of current mechanisms, as well as harness new opportunities (e.g. Fund for International Collaboration)
- Develop new mutually beneficial activities through continuation of the Newton Fund
- Provide joint leadership through multilateral initiatives (e.g. Global Research Council)



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Thank you



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@UKRI_news



www.UKRI.org

UK Research and Innovation
58 Victoria Embankment, London, EC4Y 0DS
E info@ukri.org
www.ukri.org
