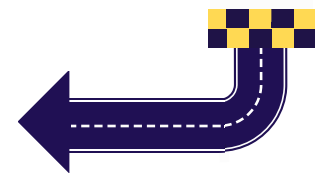


THE 5-POINT ROADMAP TO BECOMING A 'SCIENCE SUPERPOWER'

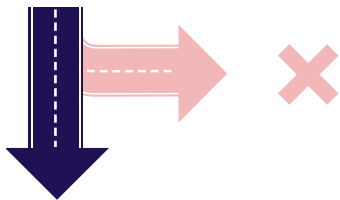
The Government has set a target to boost its investment in research and development (R&D) to £22bn per year by 2024/25. The Comprehensive Spending Review is an important moment to make progress towards that target. Here we set out the 5-point roadmap that will help the UK become a science superpower.

1

Publish a full budget trajectory to make the R&D targets work harder



HM Treasury should set out an R&D budget for the remainder of this Parliament, showing how the £22bn R&D investment target, and wider ambitions to raise R&D investment to 2.4% of GDP, will be met. CaSE members tell us that strong leadership and long-term certainty from Government gives businesses the confidence to invest in R&D themselves.



Short-term budgets stifle science

Year-by-year budgeting chokes off the confidence boost offered by the ambitious £22bn target, with businesses taking their R&D investments elsewhere in the world.

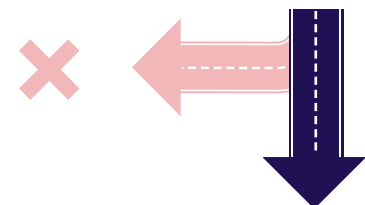
2

Use increasing R&D investment to strengthen the foundations

UKRI should continue to expand the budget allocated to discovery research, as a vital counterpart to growing mission-driven funding streams. This will build on the increased allocations in last year's spending review, which are safeguarding the UK's reputation as a world-leader in discovery research.

Unbalanced growth weakens the UK's R&D performance

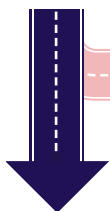
A narrow approach to investment leaves discovery research underpowered and unable to deliver the dynamic environment in which mission-driven R&D, such as the new ARIA programme, are able to thrive.



**3**

Channel science and technology into all parts of government

HM Treasury should support increased R&D budgets across Whitehall departments, in line with rising public investment in R&D. The new Office for Science and Technology Strategy offers a chance to co-ordinate this embedded R&D in a powerful way, helping Departments get the most out of their investments.



Public services miss out on the benefits of innovation

With most Departments shut out of increasing R&D investment, public services can't access the full benefits of the UK being a science superpower.

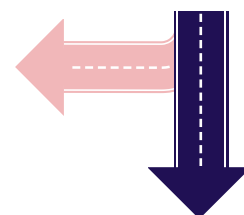
4

Deliver R&D opportunities for every region of the UK

The Government must set out details of the innovation element of the Shared Prosperity Fund, detailing how institutions across the UK will be able to access the fund. The Shared Prosperity Fund will support the collaboration between small businesses and universities that drives growth and jobs in all parts of the UK, and in particular those areas with the most untapped potential.

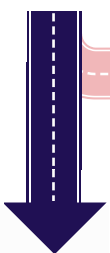
New R&D investment leaves some areas short-changed

A lack of clarity around the Shared Prosperity Fund disadvantages some communities, and fails to make the most of R&D's role in "levelling-up" and driving local prosperity.

**5**

Attract the R&D workforce that the UK needs for tomorrow

The Departments for Education and Business, Energy and Industrial Strategy must work together to boost investment in high-quality science education. The focus must be on attracting an increasingly diverse group of people to become scientists and engineers, and equipping all young people with the skills to take advantage of the UK being a 'science superpower'.



The UK's R&D strategy is all £s and no people

Underinvestment, unchallenged stereotypes and uninspiring courses see many young people put off by STEM subjects from an early age, sowing the seeds for a workforce crunch just as the UK is reaching its ambitious £22bn investment target.



DESTINATION REACHED: A thriving R&D sector sits at the heart of the UK's future, delivering greater prosperity for communities across the country, and cementing the UK's role as a 'science superpower' that can be a force for good on the global stage.