

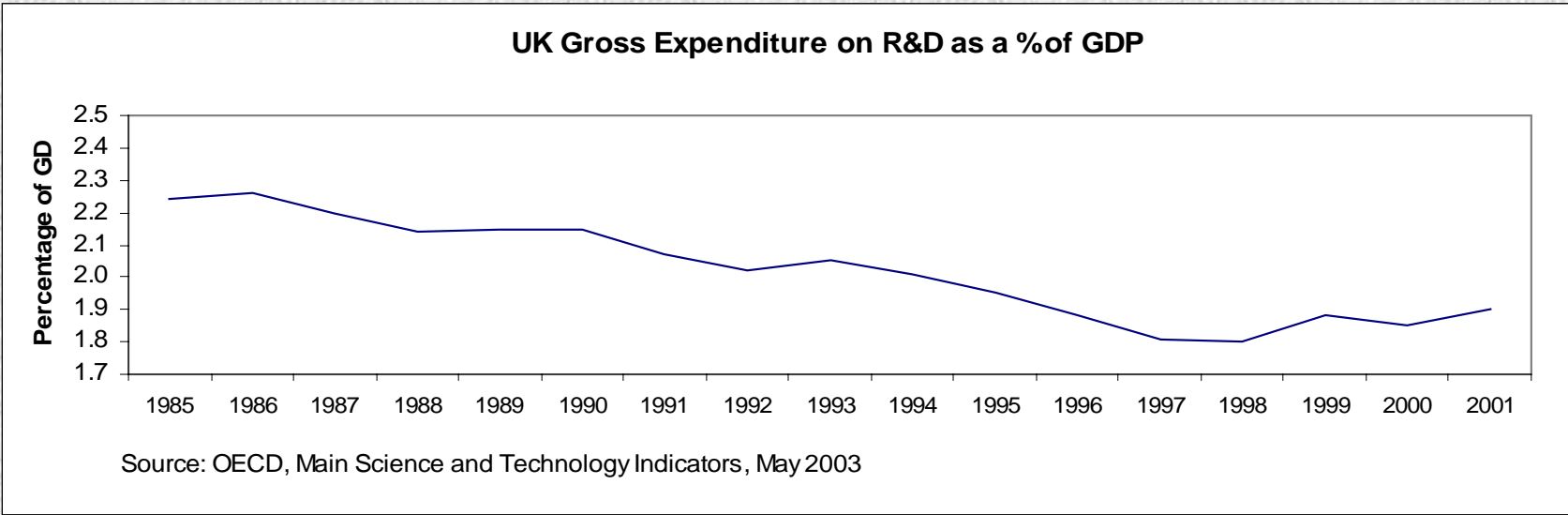


# HM TREASURY

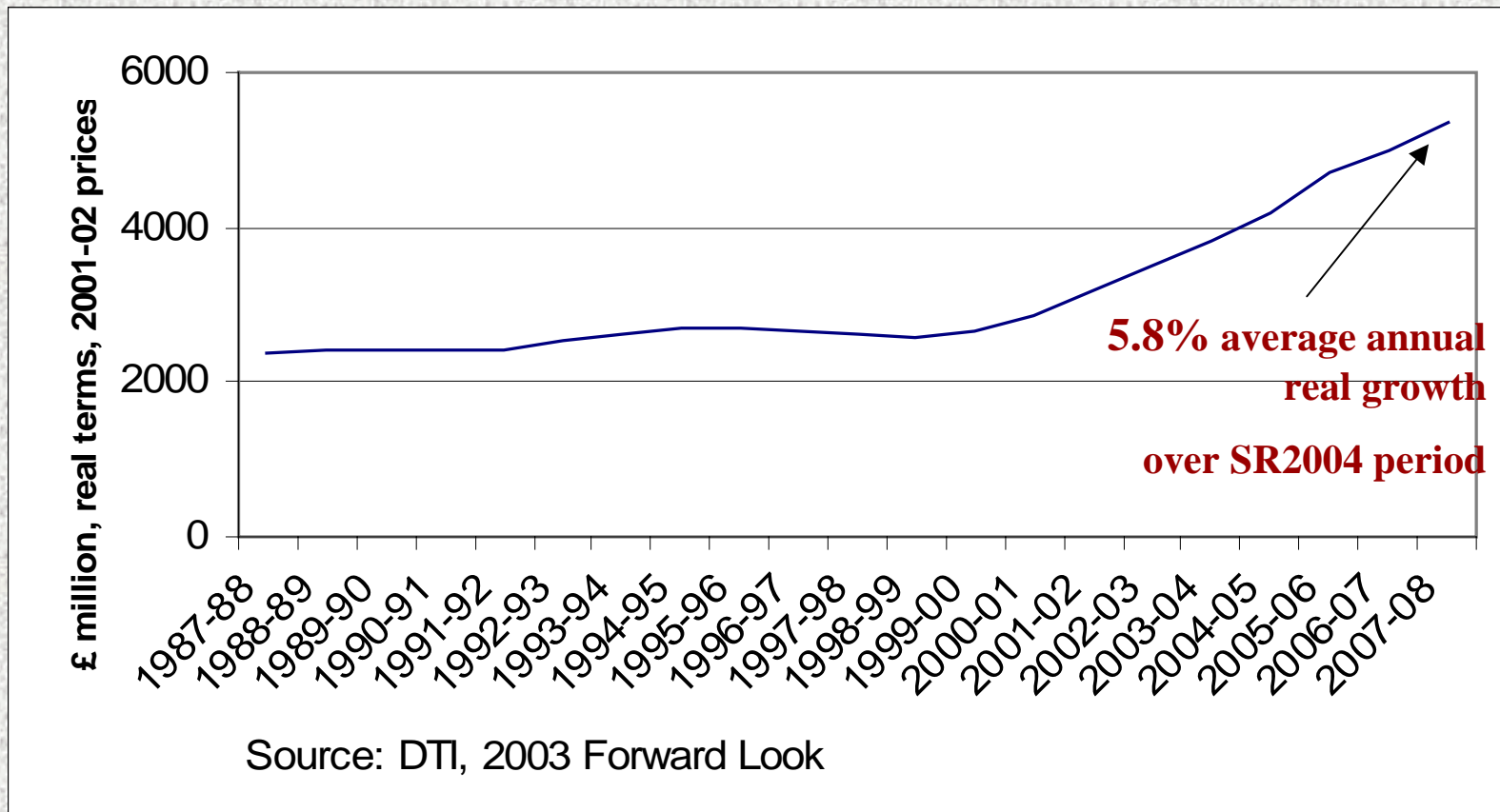
## **Science and Innovation: 10 Year investment framework**

John Kingman  
HM Treasury

# UK R&D intensity



# Investment in public science base (OST + HEFCE)





# Commitment over 10 years

- Growing investment in public science base at least in line with trend growth rate of economy
- 2.5% R&D ambition would require stronger growth than this across public and private research – 5.7% real, annually
- Government to review progress of this partnership annually



# Public science funding – more strategic approach

Comprehensive performance management system being developed by OST will:

- provide a more robust mechanism for translating overall strategic priorities for the science base into specific aims and objectives for the RCs
- allow the balance of investment across the Science Budget to be adjusted in response to a more strategic view of new priorities
- Central funding provision, to be allocated by the DGRC, of £70 million over the SR04 period will enable RCs to respond more quickly and effectively to emerging priorities and opportunities





# Collaboration with charities

- Since 1998, Wellcome Trust has invested over £600m into major capital renewal of the UK's university research infrastructure
- Wellcome expects to commit at least £1.5 billion in the UK over the coming five years, and for UK to remain their centre of gravity over next 10 years
- HEFCE SR04 uplift includes up to £90 million by 2007-08 to help close the gap between the costs of charity-sponsored research and the funds currently available from universities and charities



# (Still) stronger focus on engagement with economy (1)

- Increasing support for knowledge transfer from universities in England to £110 million a year by 2007-08 through HEIF
- 2008 RAE will provide greater reward for academics to work on both research relevant to users and work which crosses disciplinary boundaries
- RCs to have plans and goals for increasing the rate of knowledge transfer and level of interaction with business, with explicit targets for each RC to grow their proportion of collaborative research





## (Still) stronger focus on engagement with economy (2)

- Additional resources for DTI's knowledge transfer and innovation goals, with a budget for the new Technology Strategy set to rise to at least £178 million by 2007-08 for knowledge transfer networks and collaborative R&D
- Following the Lambert Review, the RDAs will be tasked to help a broader spectrum of businesses develop more productive links with the university base, including through support for business-focussed research





# Skills ambitions

Clear ambitions to deliver step-changes in:

- the quality of science teachers and lecturers in every school, college and university
- the results for students studying science at GCSE level
- the numbers choosing SET subjects in post-16 education and in higher education
- the proportion of better qualified students pursuing R&D careers



# Skills measures

- Doubling the number of science places on the Graduate Teacher Programme from 2005/06
- Increasing the teacher training bursary for science graduates from £6,000 to £7,000 and increasing the 'Golden Hello' for new science teachers from £4,000 to £5,000 from Sept 2005
- Removing the current £50K cap on pay for science Advanced Skills Teachers and guaranteeing a high minimum pay of £40K (£45k in London)
- Training a new cadre of science-specialist Higher-Level Teaching Assistants to enable every secondary school in England to recruit at least one by 2007/08
- HEFCE will consider providing additional funding to university departments if there is a case that falling provision would hinder access to disciplines important to national and regional development
- Increasing the PhD stipend over the SR2004 period





# Medical research

- Budget 2004 commitment to increase NHS R&D funding by £25m per annum over next four years - £100m extra by 2007-08 - to underpin the creation of the new UK Clinical Research Collaboration
- As part of the 10-year framework, Wellcome is developing further partnerships with the Government over the coming years, in both clinical and public health research
- MRC and DH will establish a joint Clinical Health Research Partnership Group to provide better strategic management and integration of Government investment in health research
- Home Office will publish a document shortly setting out in full the approach by the Government and police to tackling animal rights extremism



# To sum up

- A strong but achievable overarching ambition for the economy – but not something the Government alone can deliver
- Continuing growth – and stability – in Government funding of the public science base, with a more strategic approach to allocating RC funding
- Continued strengthening of emphasis on applied and collaborative research, and engagement with business
- A serious strategy to reverse the decline of science (and maths) in schools
- Stronger emphasis on, and better collaboration in, medical and clinical research and its potential both for health outcomes and the economy
- A collaborative approach across the board, with business and charities – and annual monitoring of progress

