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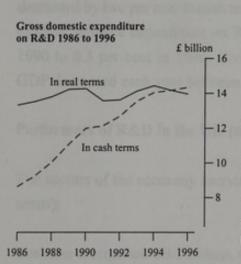
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First Release APR 1998

Gross domestic expenditure on research and development 1996

In 1996 the UK's gross domestic expenditure on research and development



(R&D) was £14.3 billion. This represented an increase, in cash terms, of one per cent from the level in 1995.

In real terms Gross Domestic Expenditure on R&D decreased by two per cent between 1995 and 1996.

In 1996, expenditure on R&D was 1.94 per cent of gross domestic product. This proportion has fallen in the last three years, as expenditure on R&D has been outstripped by growth in GDP.

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Gross expenditure on R&D in the UK (£million)

In cash terms	In real terms	Cash terms % GDP
7959	12665	2.23
8623	13320	2.25
9221	13524	2.19
10035	13795	2.14
11069	14222	2.15
11991	14266	2.18
12131	13567	2.11
12689	13619	2.13
13541	14123	2.15
14046	14432	2.11
14172	14172	2.02
14340	13953	1.94
	7959 8623 9221 10035 11069 11991 12131 12689 13541 14046 14172	terms terms 7959 12665 8623 13320 9221 13524 10035 13795 11069 14222 11991 14266 12131 13567 12689 13619 13541 14123 14046 14432 14172 14172

Note: 1995 prices are calculated using GDP deflator.

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Gross domestic expenditure on research and development in the UK (tables 1, 2 and 3)

The estimate of the UK's gross domestic expenditure on R&D in 1996 was £14.3 billion compared to £14.2 billion in 1995. R&D expenditure for civil purposes at £12.3 billion in 1996 was two per cent higher in cash terms than for 1995. R&D expenditure for defence purposes, at £2.1 billion, decreased by two per cent in cash terms from the 1995 level. As a percentage of GDP, defence expenditure on R&D has declined from 0.5 per cent in 1990 to 0.3 per cent in 1996. Civil R&D expenditure as a proportion of GDP decreased each year between 1993 and 1996.

Performers of R&D in the UK (table 2)

The sectors of the economy carrying out this R&D in 1996 were (in cash terms):

Business enterprises: £9.3 billion, the same as in 1995.

Government: £2.1 billion, one per cent higher than 1995 (Including research councils)

Higher education: £2.8 billion compared with £2.7 billion in 1995.

Private non-profit: £0.2 billion, similar to 1995.

Funding of R&D in the UK (tables 4 and 5)

In 1996 Government funded 32 per cent of all R&D performed in the UK (26 per cent of civil R&D and 65 per cent of defence R&D).

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BACKGROUND NOTES

- This First Release presents estimates of gross domestic expenditure on research and development in the UK (GERD) in 1996.
- 2. More detailed figures will be published later in the year by the DTI's Office of Science and Technology (OST) in the Science, Engineering and Technology Statistics 1998 (SET Statistics 1998)¹, and in ONS's Economic Trends². Detailed tabulations for Business Enterprise R&D were published in January 1998 in Business Monitor MA14³. International comparisons are published by the Organisation of Economic Cooperation and Development (OECD)⁴.

Sources

- 3. Two annual surveys of R&D are conducted by ONS. One is addressed to all government departments and covers R&D performed in or funded by the Central Government sector. (See the classification of sectors below). Detailed results, including figures for individual departments, will be available from the ONS on request after they have appeared in the OST's SET Statistics 1998. This publication has detailed analyses of the net expenditure of government departments (ie. which includes government expenditure on R&D performed outside central government, less any receipts for work performed within central government).
- The other annual survey is addressed to businesses performing R&D.
 The 1996 survey results were first published in an ONS First Release on 14 November 1997.
- 5. The government funding totals in tables 4 and 5 differ from tables showing departmental breakdowns of net expenditure in OST's SET Statistics 1997. Tables 4 and 5 use information on government funded R&D from the survey of Business Enterprise R&D. The SET Statistics 1997 use the survey of government funded R&D. The differences are due chiefly to the way each survey records the R&D content of Ministry of Defence contracts.

Definition of R&D

- The definitions used here are based on those internationally agreed by OECD; they are set out in the Frascati Manual⁵.
- 7. The guiding line to distinguish R&D activity is the presence of an appreciable element of innovation. If the activity follows an established

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BACKGROUND NOTES

- This first Relong presents estimates of gross domestic expenditure on concents and development in the UK (GERD) in 1906.
- More detailed figures will be published later in the year by the DTT's Coffice of Science and Technology (OST) in the Science, Englishment of the Science of Science and Technology Science of the Science of Sci

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- O The definitions and here are based on these internationally agreed by OSCE, they are set out to the Francist Moseaff.
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pattern it is excluded; if it departs from routine and breaks new ground it is included. For example: activities such as routine testing, market research, patent applications, trial production runs, and artistic design work, are excluded. Overheads are included. VAT is excluded.

Defence R&D

8. Defence includes all R&D programmes undertaken primarily for defence reasons regardless of their content or whether they have secondary civil applications. It includes nuclear and space R&D undertaken for defence purposes. It does not include civil R&D financed by the Ministry of Defence, for instance on meteorology or telecommunications. It includes defence R&D commissioned by overseas clients.

Classifications of sectors

- 9. The OECD terminology is used. "Government" corresponds to the "General Government" sector of the UK National Accounts and includes Local as well as Central Government. "Business enterprise" corresponds to the "Corporate" sector and includes public corporations and research associations as well as commercial and industrial companies. "Private non-profit" corresponds to the "Personal" sector of the National Accounts, except that higher education institutions are excluded and put into a separate OECD sector ("Higher Education"). "Abroad" corresponds to the "Overseas" sector.
- 10. There is a significant discontinuity between 1985 and 1986. In 1986 the UK Atomic Energy Authority ceased to be a part of the Department of Energy and became a public corporation. Its expenditure therefore moved from the government sector to the business enterprise sector. Estimates of NHS R&D are in the government sector total and are included from 1991.

Gross domestic expenditure on research and development (GERD)

- 11. GERD is the measure most commonly used for international comparisons. It covers all R&D performed in the country concerned irrespective of who pays for it. So, UK GERD covers all R&D in the UK including that funded from abroad; but it excludes R&D performed abroad even if funded from the UK. The four components of GERD relate to R&D performed in the four sectors of the economy.
 - a. Government R&D is based on the returns of intramural R&D in the government survey with the addition of ONS estimates for two other

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pattern it is contained; if it deports from reaches and heades new ground it is included. For groundies software next as multice reaches and artistic design reaches and artistic design beautiful and pattern and artistic design work, are excluded. Our characters included. VAT is excluded.

Dolume R&D

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components: R&D performed by local authorities and some R&D within Central Government R&D not available from the survey. For 1996 UK NHS figures have been obtained from the Department of Health and the Scottish Office on the basis of the Culyer directive which since 1995 confirmed the extent of R&D spending in the NHS. Previously an estimate of one and a half per cent of the NHS budget was used.

- Business enterprise R&D is derived from the results of the ONS's business R&D survey.
- c. Higher Education R&D is estimated by the Higher Education Funding Councils for England, Scotland, Wales and the Department for Education in Northern Ireland.
- d. Private non-profit R&D is derived mainly from the results of ONS's 1996 Private Non Profit Survey (PNP) (see notes on revisions).
- 12. In addition to being analysed by sector of performance, GERD may be analysed by sector of funding. The R&D performed by any one sector of the economy can be funded by any of the other sectors or by the performing sector itself.
- 13. For the purposes of estimating GERD the standard internationally recommended practice of the OECD is to use information from those performing R&D when this is available. These estimates are considered more reliable than those from surveys of R&D funders. This is why, in the UK GERD table, the estimate of business enterprise R&D funded by Government is from the business enterprise survey rather than the Government R&D survey.
- 14. The figures for R&D performed by Government and business enterprises may be considered more robust than the other GERD components, since they are based on well established surveys.

Gross domestic product (GDP)

 The measure of GDP used is at market prices - based on the UN definition.

Real terms

 Figures given in "real terms" are calculated using the GDP deflator adjusted for the abolition of domestic rates; 1995=100. É NATIONAL

components: RAD performed by local authorities and some RAD within Control Con

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C. Higher Education RAID is estimated by the Higher Education
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for Education in Northern Laborat

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Revisions

- 17. There have been some revisions to the 1995 Business Survey results. This was due to Product Group changes, more accurate reporting of R&D services and some revisions due to company misreporting. Full details on the revisions were included in ONS's First Release (97) 325 published on 14 November 1997.
- 18. Last year's First Release referred to work by ONS to improve the reliability of estimates by the PNP sector. A more detailed survey was conducted in respect of 1996 using data from the ONS Survey of Charities⁶ as a sampling frame. This survey has confirmed that the levels established last year for the sector as a performer were correct although the components of the funding prior to 1996 needed revising. This has been done on a simple pro-rata basis using 1996 as the benchmark.

Rounding of figures

 There may be discrepancies between totals and the sum of their independently rounded components.

General

- For information on available aggregated data on Gross Domestic Expenditure on Research and Development please contact Jane Morgan on 01633 813109.
- 21. Details of the policy governing the release of new data, including a description of the release categories featured on the front page of ONS releases, are available from the press office.
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- 23. The Office for National Statistics works in partnership with others in the Government Statistical Service to provide Parliament, government and the wider community with the statistical information, analysis and advice needed to improve decision-making, stimulate research and inform debate. It also registers key life events. It aims to provide an authoritative and impartial picture of society and a window on the work

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This was due to irreduct Group changes, more accumite repositing of R&D starvices and come revisions due to company misroporting Fall details on the revisions was included in ONS's First Release (97) 225 published on 14 November 1997.

18. Last your's first Release relieved to swelt by ONS to improve the reliability of summers by the ENF sector. A more detailed survey was conducted in reciper of 1996 taking that from the ONS Survey of Charless's a complete from the second conducted that the levels conducted that you for the second conducted that the levels due to the finding prior to 1996 predemar were consequent attending that the levels are conducted arrivals. This has the components of the funding prior to 1996 predemark the law base on a simple recorded project of the levels and the levels and the second conducted the levels and the levels are the levels and the levels a

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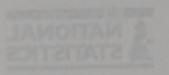
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and performance of government, allowing the impact of government policies and actions to be assessed.

References

- 1995-96 outturn government R&D expenditure figures were in OST's SET Statistics 1997, HMSO, London; 1996-97 figures will be published in SET Statistics 1998 in May 1998. ISBN 0-10-136952-2
- 1995 UK R&D figures were in Economic Trends, August 1997. 1996 figures will be published in Economic Trends, later in 1998.
- 1996 Business Enterprise R&D was published in Business Monitor MA 14 in January 1998. Available from The Sationery Office. ISBN 0-11-536357-2
- Main Science and Technology Indicators 1997, OECD, Paris. ISBN 92-64-05253-4
- Proposed Standard Practice for Surveys of Research and Experimental Development, 'Frascati Manual', OECD, Paris. ISBN 92-64-14202-9
- Charities contributions to Gross Domestic Product. The results of the 1997 survey of charities ' Economic Trends' No 517 November 1997.



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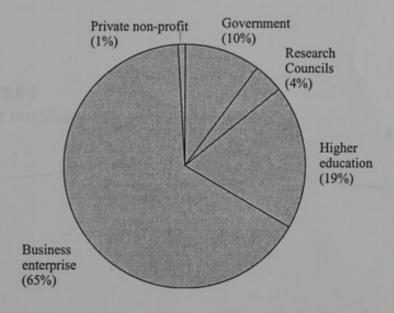
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- 2. 1995 EEC RAD Squees were in Envasie Pands, August 1997, 1996 Squees will be published in Accessorie Pands, later to 1998.
- 3. 1990 Sustmice Direction R.S.D. vone published in Business Movements
 14 in Ignius 1998, Aprillable from The Saforery Office, ISBN 9-11536703-2
 - 4. After Science and Technology Indicases 1997, OECES, Paris TSEN 92-65-05253-4
- 5. Proposed Soundard Practice for Serveys of Research and Experimental Development, Frances Monard, GEGD, Paris, ISBN 92-64-14202-9
- 6. Charities contributions to Gross Donewise Product. The results of the 1997 mavey of charities? Economic Parade No ST7 November 1997

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R&D PERFORMED IN THE UK IN EACH SECTOR ACCORDING TO SOURCE OF FINANCE, 1996

	Sector carrying out the work													
	Government	Research Councils	Higher education	Business enterprise	Private non-profit	Total	Abroad							
Sector providing the funds														
Government	1 317	77	157	876	18	2 445	171							
Research Councils	11	391	671	9	9	1 092	139							
Higher Education Funding Councils	-	-	1 027	-	-	1 027	-							
Higher education	2.5	3	116	TOT LOSS -	-1	120	-							
Business enterprise	129	35	188	6 401	32	6 786	-							
Private non-profit	7	29	406	5	99	546	-							
Abroad	30	40	226	2 010	17	2 323	-							
TOTAL	1 495	575	2 792	9 301	177	14 340								
of which:														
Civil	768	570	2 732	8 007	177	12 254	-							
Defence	727	5	60	1 294	-	2 085	-							

FIGURE 1 Sector carrying out the work 1996

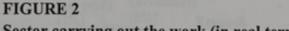


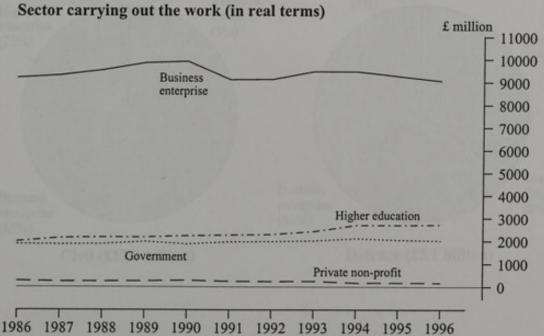
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FIGURE 1

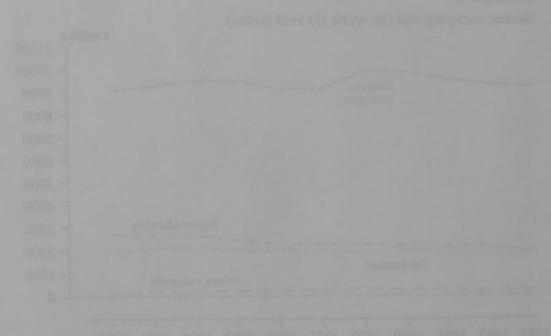
EXPENDITURE ON RESEARCH AND DEVELOPMENT IN THE UK BY SECTOR OF PERFORMANCE: 1986 TO 1996

												£millio
		1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Sector carrying out the wo	rk											
n cash terms												
ir casii turnis												
TOTAL	GLBA	8 623	9 221	10 035	11 068	11 991	12 131	12 689	13 541	14 046	14 172	14 340
Government	GLBK	1 212	1 264	1 360	1 534	1 566	1 757	1 846	1 928	2 051	1 462	1 495
Research Councils	Decres	-	-	-	-	-	-	-	-	-	581	575
Business enterprise	GLBL	5 951	6 335	6 922	7 650	8 3 1 8	8 135	8 489	9 069	9 204	9 254	9 301
Higher education	GLBM	1 288	1 460	1 575	1 689	1 873	2 020	2 129	2 312	2 623	2 696	2 792
Private non-profit	GLBN	172	162	179	196	234	219	224	232	168	177	177
As % of GDP	GLBH	2.25	2.19	2.14	2.15	2.18	2.11	2.13	2.15	2.11	2.02	1.94
		1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Sector carrying out the wo	rk											
in real terms(1995 prices)												
TOTAL	GLBD	13 320	13 524	13 795	14 222	14 266	13 567	13 619	14 123	14 432	14 172	13 953
Government	GLBW	1 873	1 854	1 870	1 971	1 864	1 965	1 982	2 011	2 107	1 462	1 454
Research Councils	DMSU	-	-	-	-	-	-	-	-	-	581	559
Business Enterprise	GLBX	9 192	9 291	9 5 1 5	9 830	9 896	9 098	9 111	9 459	9 456	9 254	9 050
Higher Education	GLBY	1 989	2 141	2 165	2 170	2 228	2 259	2 285	2 411	2 695	2 696	2717
Private non-profit	GLBZ	266	238	245	252	278	246	241	242	173	177	172





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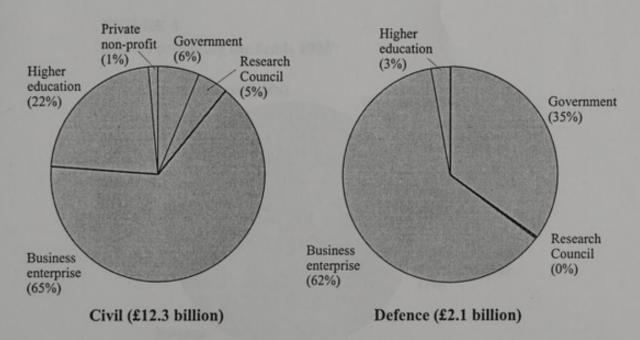
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EXPENDITURE ON CIVIL AND DEFENCE R&D PERFORMED IN THE UK BY SECTOR OF PERFORMANCE: 1991 TO 1996

IN CASH TERMS Emillion

		Civil									Def	ence		
		1991	1992	1993	1994	1995	1996		1991	1992	1993	1994	1995	1996
Sector carrying out the w	rork													
TOTAL	GLBB	9 951	10 606	11 442	11 906	12 039	12 254	GLBC	2 180	2 083	2 099	2 140	2 133	2 085
Government	GLBO	1 087	1 214	1 251	1 403	789	768	GLBS	670	632	677	648	673	727
Research Councils	DMSC	-	-	-	-	574	570	DMSM	-	-	-	-	8	5
Business enterprise	GLBP	6 669	7 092	7710	7 771	7 863	8 007	GLBT	1 466	1 397	1 359	1 433	1 391	1 294
Higher education	GLBQ	1 983	2 084	2 259	2 573	2 635	2 732	GLBU	37	45	53	50	61	60
Private non-profit	GLBR	212	216	221	159	177	177	GLBV	8	8	11	9	-	-
As % of GDP	GLBI	1.73	1.78	1.82	1.79	1.72	1.66	GLBJ	0.38	0.35	0.33	0.32	0.30	0.28

FIGURE 3 Sector carrying out the work 1996



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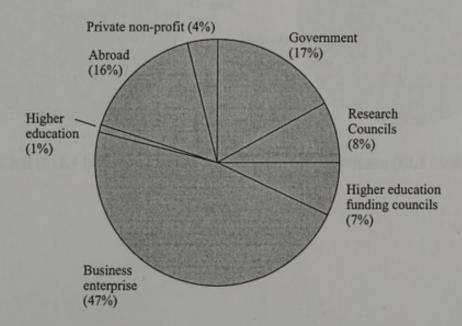
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EXPENDITURE ON RESEARCH AND DEVELOPMENT IN THE UK BY SECTOR OF FUNDING: 1986 TO 1996

												£millio
		1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	199
Sector funding R&D in the UK												
In cash terms												
TOTAL	GLBA	8 623	9 221	10 035	11 068	11 991	12 131	12 689	13 541	14 046	14 172	14 34
Government	GLCA	3 425	3 535	3 553	3 913	4 123	4 131	4 239	4 400	4 657	2611	2 44
Research Councils	DMSR	_	_	-	-	-	-	_	-		1 078	1 093
Higher Education Funding Councils	DMSS	-	-	-	-	-	-	-	-	_	1 018	1 02
Business enterprise	GLCB	4 100	4 526	5 193	5 631	5 986	6 054	6 461	6 974	7 025	6 796	6 78
Higher education	GLCC	55	66	78	82	86	92	99	103	116	119	12
Abroad	GLCE	809	848	944	1 139	1 433	1 458	1 455	1 613	1 753	2 039	2 32
Private non-profit	GLCD	234	246	267	303	365	397	435	451	495	511	54
		1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Sector funding R&D in the UK												
In real terms(1995 prices)												
TOTAL	GLBD	13 320	13 524	13 795	14 222	14 266	13 567	13 619	14 123	14 432	14 172	13 953
Government	GLCP	5 290	5 184	4 884	5 027	4 905	4 620	4 549	4 589	4 785	2611	2 379
Research Councils	DMSV	-	-	-	-	-	-	-	-	-	1 078	1 063
Higher Education Funding Councils	DMSW	-	-	-	-	-	-	-	-	-	1 018	1 000
Business enterprise	GLCQ	6 334	6 639	7 138	7 235	7 122	6771	6 934	7 274	7 218	6 796	6 603
Higher education	GLCR	85	97	108	106	102	103	107	107	119	119	117
Abroad	GLCT	1 250	1 243	1 298	1 464	1 704	1 630	1 561	1 683	1 801	2 039	2 261
Private non-profit	GLCS	361	361	367	390	434	444	467	471	509	511	531

FIGURE 4 Sectors providing the funds 1996



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FIGURE 4

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EXPENDITURE ON CIVIL AND DEFENCE R&D PERFORMED IN THE UK BY SECTOR OF FUNDING: 1991 to 1996

IN CASH TERMS

	Civil											ence		
		1991	1992	1993	1994	1995	1996		1991	1992	1993	1994	1995	1996
Sector funding R&D in the UK														
TOTAL	GLBB	9 951	10 606	11 442	11 906	12 039	12 254	GLBC	2 180	2 083	2 099	2 140	2 133	2 085
Government	GLCF	2 835	2 979	3 046	3 347	1 225	1 103	GLCK	1 296	1 260	1 354	1 310	1 386	1 342
Research Councils	DMSX	-	-	-	-	1 078	1 092	DMSM	-	-	-	-	-	
Higher Education Funding Councils	DMSY	-	-	-	-	1 018	1 027	DMSZ	-	-	-	-	-	-
Business enterprise	GLCG	5 561	5 959	6 549	6 554	6 405	6 355	GLCL	493	502	425	471	391	431
Higher education	GLCH	92	99	103	116	119	120	GLCM	-	-	-		-	- 18-
Abroad	GLCJ	1 094	1 152	1 300	1 396	1 683	2011	GLCO	363	303	314	358	356	312
Private non-profit	GLCI	369	416	445	493	511	546	GLCN	28	19	6	2	-	-

FIGURE 5 Sector funding R&D in the UK 1996

