

2001

가

(STEPI)

21 2000 6 21 (Science and Innovation White Paper)

가 가 (Excellence in Science), “ (Confident Consumers)” 가 SET (Science, Engineering and Technology) 3

1).

2001

가

21

Trends in Government-funded SET

2001 가 SET 가 가 . 1997

가

1

(Comprehensive Spending Review; CSR)

1998 10 SET

1

3

(cash)”

(resource)”

2001 “

“

가

1) 2000 6 “ -21 (Excellence and Opportunity-Science and Innovation Policy for the 21st Century)” , 1993 “ (Realising Our Potential-A Strategy for Science, Engineering and Technology)” SET , 가 3 “2001 ” 2001 1/2

가 (capital depreciation)

2000-2001 (2000. 4. 1 2001. 3. 31) 가 SET
 3.6%가 가 69 7,800 (< 1>), 가
 1.9%가 가 (< 2>).
 SET 13.3% ,
 11.1%가 가 SET
 30% 2). 2000-2001
 SET 22.6%, HEFC(Higher Education
 Funding Council)가 18.8%, (DTI) (OST)
 가 23.1%, EU 6.3%, 29.1%
 (< 1>). 2001-2002 2003-2004 3
 SET 가
 가
 SET
 (CSR)가 1998-1999 SET 가
 1999-2000 가 . 1980
 SET (가)가 가
 1997 (< 2>)
).

2) SET 2 1950
 90% , 1980 50% , 1990
 30% (, 2000, ,
).

< 1> SET
(: , 가)

	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004
	1163.1	1223.1	1295.1	1312.4	1331.1	1333.6	1393.6	1580	1751	1867	2108
HEFC	968.4	1017.0	1017.7	1027.5	1032.7	1085.1	1157.1	1309	1372	1409	1448
	1189.7	1116.5	1467.7	1444.7	1354.2	1372.8	1501.7	1614	1846	1889	2020
	3321.3	3356.5	3780.5	3784.6	3718.0	3791.5	4052.4	4502	4970	5165	5577
	2278.5	2031.5	2069.7	2143.7	2311.4	2095.9	2344.5	2033	2394	2392	2392
SET	5599.8	5388.1	5850.1	5928.2	6029.4	5887.4	6396.9	6535	7364	7557	7969
EU	280.9	286.3	338.9	357.7	339.5	374.9	335.4	443	441	396	372
SET	5880.7	5674.4	6189.0	6285.9	6368.9	6262.3	6732.3	6978	7805	7952	8341

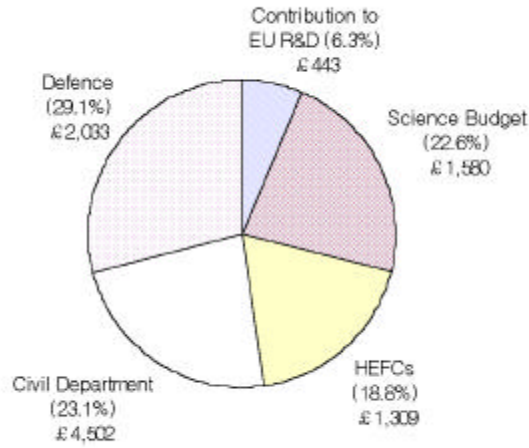
: 2000-2001
: OST (2001), Forward Look 2001.

< 2> SET
(: , 1999-2000 가)

	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004
	1355.2	1405.2	1446.2	1420.0	1400.6	1364.2	1393.6	1552	1679	1746	1924
HEFC	1128.2	1168.4	1136.5	1111.7	1086.5	1110.0	1157.1	1286	1316	1318	1322
	1386.0	1282.7	1639.1	1563.1	1424.8	1404.2	1501.7	1586	1770	1767	1844
	3869.4	3856.2	4221.9	4094.8	3911.8	3878.4	4052.4	4425	4766	4831	5090
	2654.5	2333.9	2311.4	2319.4	2431.9	2144.0	2344.5	1998	2296	2237	2183
SET	6524.0	6190.2	6533.2	6414.1	6343.7	6022.4	6396.9	6423	7061	7069	7273
EU	327.3	328.9	378.5	387.0	357.2	383.5	335.4	435	423	370	340
SET	6851.2	6519.2	6911.7	6801.1	6700.9	6405.9	6732.3	6858	7484	7439	7612

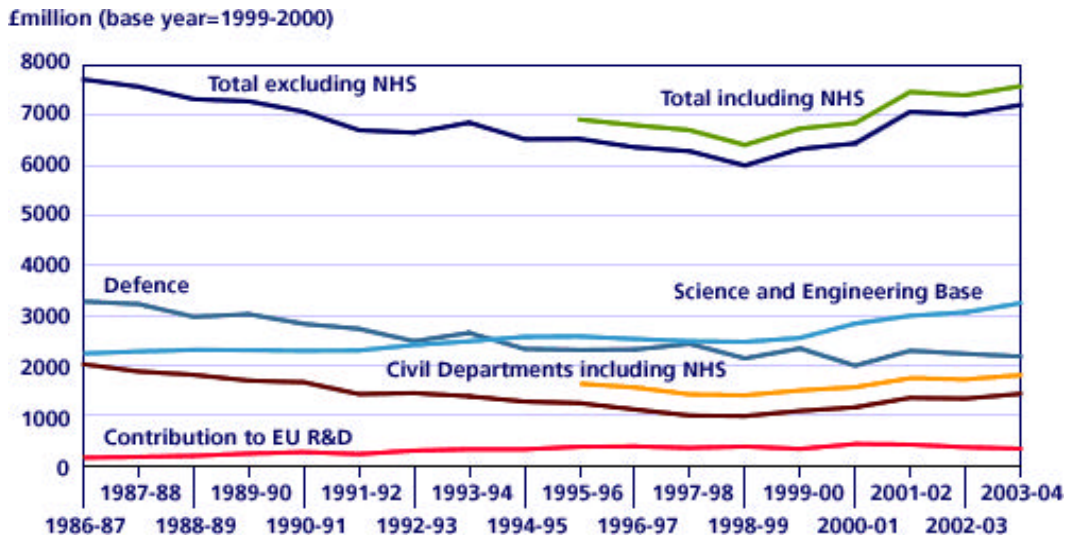
: 2000-2001
: OST (2001), Forward Look 2001.

< 1> SET (2000-2001)



: OST(2000), Science, Engineering and Technology Statistic 2000.

< 2> SET
(: , 1999-2000 가)



: OST(2000), Science, Engineering and Technology Statistics 2000
Science Research Priorities 2001-02 to 2003-04

가
Genomics, E-Science, (Basic Technology)³⁾ 3

2003-2004 3 Genomics 1 1,000 (< 3>), E-Science
 9,800 (< 4>), 4,400 (< 5>) 3
 2 5,200
 SRIF (Science Research Investment Fund)
 3 , Research Council
 1 3
 . 1980 가

< 3> Genomics

(:)

	2001-2002	2002-2003	2003-2004	
MRC	9,000	20,000	24,000	53,000
BBSRC	3,000	11,000	19,000	33,000
NERC	-	2,000	4,000	6,000
EPSRC	2,000	5,000	6,000	13,000
ESRC	1,000	1,500	2,500	5,000
	15,000	39,500	55,500	110,000

: OST (2000), Science Budget 2001-02 to 2003-04.

< 4> E-Science

(:)

	2001-2002	2002-2003	2003-2004	
MRC	1,000	2,000	5,000	8,000
BBSRC	1,000	2,000	5,000	8,000
NERC	1,000	2,000	4,000	7,000
EPSRC	6,000	13,000	22,000	41,000
PPARC	3,000	8,000	15,000	26,000
ESRC	-	1,000	2,000	3,000
CCLRC	1,000	1,500	2,500	5,000
	13,000	29,500	55,500	98,000

: OST (2000), Science Budget 2001-02 to 2003-04.

3) 가
 Bioengineering,

Nanotechnology, Quantum Computing,

	2001- 2002	2002- 2003	2003- 2004	
EPSRC	2,000	14,000	25,000	41,000
ESRC	-	1,000	2,000	3,000
	2,000	15,000	27,000	44,000

: OST (2000), Science Budget 2001-02 to 2003-04
 Science and Innovation Strategy 2001

2001 8 (DTI)가
 (Science and Innovation Strategy)
 “ (가)
 ” SET ,
 4 . 4 가 ,
 가 , , ,
 가 가 가
 4), ,
 가
 50% (Science Budget)⁵⁾
 (,)
 , 1997
 가 (< 1> < 2>).
 2001- 2002 2003- 2004 3
 8.9% 가 가
 가

Quinquennial Review of Research Councils

2000 7 Research Council⁶⁾ 5 가 (Quinquennial
 가
 4) 4 가 “ ”
 5) , 2003- 2004 52% 가 1999- 2000 50%
 Report 2001-02 to 2003-04). (DTI, 2001, Expenditure Plans
 6)
 , Research Council
 Research Council
 “ (Non-Departmental Public Bodies; NDPBs)” , 1965
 (The Science and Technology Act) (Royal Charter)

Review)7) . 7 Research Council 가
1994 1999 5 가 , 2000 6
가 . 가

Research Council

6 Research Council(BBSRC, ESRC, EPSRC, MRC, NERC, PPSRC)

1 Research Council(CCLRC)

, 7 Research Council 1 가 ,
2 가 CCLRC 6

Research Council

8).

1 가 , 6 Research Council

Haldane 9) ,

NDPBs

CCLRC

가

NDPB

6

Research Council

가가 .

2 가

6 Research Council

Research Council

가

, CCLRC

Forward Look 2001

2001 12 (DTI) (OST) "Forward
Look 2001" . 1993 SET , "

. Research Council

7) (DTI) (OST)
(NDPBs)" " (Agency)" "
. 가 2 , 5 가
, 1 가
, 2 가 1 가
. 가

Peer Review
(Public Consultation)

8) CCLRC 1 가 2001 2 , 6 Research Council 1
가 2001 7 , 2001 12 CCLRC

6 Research Council 2 가 가
9) 1918 Haldane , "

(Realising Our Potential)”

1994

Forward Look

가

,
,

Patricia Hewitt

Forward Look 2001

“

SET

가 가

2000-2001

68 5,000

2003-2004

76

11%

가

”

,

가

(labs)

(factories)

“Invented in Britain”

“Made in Britain”

가

Summary and Conclusions

2000 6 2

SET

SET

가

7 Research Council

5 가

2001 12

가

2001 6 7

()

659 가 413

가

EU

(< 6>),

59%

Economist 가

가

2001

가 , 21

2002

< 6> EU

(: %)

		1997	1998	1999	2000	2001								
						1	2	3	4	5	6	7	8	9
GDP 가	EU	2.5	2.9	2.1	3.4	0.5			0.1			0.5		
		2.2	2.7	1.4	3.0	0.4			-0.0			-0.1		
		2.5	3.1	2.7	3.3	0.4			0.2			0.5		
		1.0	1.5	1.2	2.9	0.8			0.0					
		3.0	2.7	1.8	3.0	0.5			0.4			0.6		
	EU	10.6	9.9	9.2	8.3	7.8	7.8	7.7	7.6	7.6	7.6	7.6	7.6	7.6
		9.9	9.4	8.6	8.1	7.7	7.7	7.7	7.7	7.8	7.8	7.9	7.9	7.9
		12.3	11.7	11.3	9.5	8.7	8.6	8.6	8.5	8.5	8.5	8.5	8.5	8.6
		12.0	11.9	11.4	10.5	9.9	9.7	9.5	9.5	9.5	9.5	9.4		
		7.0	6.3	6.1	5.5	5.2	5.1	5.0	5.0	5.1	5.1	5.1		
가	EU	2.0	1.8	1.3	2.1	2.2	2.3	2.3	2.6	3.1	2.8	2.6	2.6	2.4
		1.8	1.0	0.6	2.1	2.2	2.5	2.5	2.9	3.6	3.1	2.6	2.6	2.1
		1.2	0.7	0.6	1.8	1.4	1.4	1.4	2.0	2.5	2.2	2.2	2.0	1.6
		1.8	1.7	1.8	2.6	2.7	2.7	2.6	3.0	2.9	2.9	2.8	2.8	2.6
		3.1	3.4	1.6	0.8	0.9	0.8	1.0	1.1	1.7	1.7	1.4	1.8	1.3

: 2001

GDP 가

:

(2001),

KIEP

, 2001 12