

Vote 35

Science and Innovation

Adjusted budget summary

R thousand	2023/24			
	Appropriation	Adjustments appropriation		Adjusted appropriation
		Decrease	Increase	
Amount to be appropriated	10 874 221	(409 761)	98 531	10 562 991
of which:				
Current payments	577 969	–	98 431	676 400
Transfers and subsidies	10 285 840	(409 761)	–	9 876 079
Payments for capital assets	10 412	–	–	10 412
Payments for financial assets	–	–	100	100
Executive authority	Minister of Science and Innovation			
Accounting officer	Director-General of Science and Innovation			
Website	www.dst.gov.za			

Vote purpose

Realise the full potential of science and technology in social and economic development by developing human resources, research and innovation.

Performance

Indicator	Programme	MTSF priority	Annual performance		
			Projected for 2023/24	Achieved in the first half of 2023/24 (April to September)	Changed target for 2023/24
Number of commercial outputs in designated areas per year	Technology Innovation	Priority 2: Economic transformation and job creation	5	0	6 ¹
Number of technology demonstrations, prototypes, products and services developed per year	Technology Innovation		25	0	15 ²
Funds invested by international partners in their own organisations and initiatives targeted at cooperation with South African partners in the areas of research, innovation, science, technology and innovative human capital development as part of cooperation initiatives implemented by the department per year	International Cooperation and Resources	Priority 7: A better Africa and world	R400m	0	–
Number of doctoral students awarded bursaries per year, as reflected in reports from the National Research Foundation and relevant entities	Research, Development and Support	Priority 3: Education, skills and health	3 200	1 862	2 000 ³
Number of pipeline postgraduate students (BTech, honours and masters) awarded bursaries per year, as reflected in reports from the National Research Foundation and relevant entities	Research, Development and Support		10 900	3 747	4 000 ³
Number of researchers awarded research grants per year through programmes managed by the National Research Foundation, as reflected in the foundation's project reports	Research, Development and Support		4 700	2 049	3 200 ³

Performance (continued)

Indicator	Programme	MTSF priority	Annual performance		
			Projected for 2023/24	Achieved in the first half of 2023/24 (April to September)	Changed target for 2023/24
Number of knowledge and innovation products added to the industrial development and green economy intellectual property portfolio per year through fully funded or co-funded research initiatives	Socioeconomic Innovation Partnerships	Priority 2: Economic transformation and job creation	70	14	50 ¹
Number of knowledge products on innovation for inclusive development published per year	Socioeconomic Innovation Partnerships		5	2	-

1. Target revised in line with the department’s 2023/24 annual performance plan.

Progress

Although the department has not made any progress on indicators for commercial outputs in designated areas; the development of technology demonstrations, prototypes, products and services; and funds invested by international partners targeted at South African partners, these targets are calculated annually, and are expected to be met in the second half of 2023/24.

By mid-year, 2 049 researchers were awarded grants through programmes managed by the National Research Foundation against a revised annual target of 3 200. Similarly, the department awarded bursaries to 1 862 doctoral students against a revised annual target of 2 000 and 3 747 pipeline postgraduate students through programmes managed by the National Research Foundation against a revised annual target of 4 000. These high achievements were due to the high number of applications received during the first half of 2023/24.

In the first half of 2023/24, 14 knowledge and innovation products were added to the intellectual property portfolio against a revised annual target of 50. This is on par with planned mid-year performance and the department expects to achieve the annual target in the second half of the financial year.

Adjusted estimates

Programme		2023/24							Adjusted appropriation
		Adjustments appropriation					Total adjustments appropriation		
R thousand	Appropriation	Amounts announced in the Budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events			Other adjustments ¹
Administration	344 062	-	-	83 111	-	-	-	83 111	427 173
Technology Innovation	2 568 378	-	-	(5 465)	-	(72 380)	-	(77 845)	2 490 533
International Cooperation and Resources	149 886	-	-	(2 872)	-	(934)	-	(3 806)	146 080
Research, Development and Support	6 046 004	-	-	(80 209)	-	(197 940)	-	(278 149)	5 767 855
Socioeconomic Innovation Partnerships	1 765 891	-	-	5 435	-	(39 976)	-	(34 541)	1 731 350
Total	10 874 221	-	-	-	-	(311 230)	-	(311 230)	10 562 991

Adjusted estimates (continued)

Economic classification		2023/24							Total adjustments appropriation	Adjusted appropriation
		Adjustments appropriation								
R thousand	Appropriation	Amounts announced in the Budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events	Other adjustments ¹			
Current payments	577 969	–	–	98 431	–	–	–	98 431	676 400	
Compensation of employees	370 517	–	–	19 000	–	–	–	19 000	389 517	
Goods and services	207 452	–	–	79 431	–	–	–	79 431	286 883	
Transfers and subsidies	10 285 840	–	–	(98 531)	–	(311 230)	–	(409 761)	9 876 079	
Departmental agencies and accounts	8 269 108	–	–	(25 793)	–	(272 401)	–	(298 194)	7 970 914	
Public corporations and private enterprises	1 604 412	–	–	(50 000)	–	(37 365)	–	(87 365)	1 517 047	
Non-profit institutions	412 320	–	–	(23 622)	–	(1 464)	–	(25 086)	387 234	
Households	–	–	–	884	–	–	–	884	884	
Payments for capital assets	10 412	–	–	–	–	–	–	–	10 412	
Machinery and equipment	10 412	–	–	–	–	–	–	–	10 412	
Payments for financial assets	–	–	–	100	–	–	–	100	100	
Total	10 874 221	–	–	–	–	(311 230)	–	(311 230)	10 562 991	

1. Other adjustments include rollovers, the shifting of funds following a function shift within a vote, self-financing expenditure, declared unspent funds and expenditure in terms of section 16 of the Public Finance Management Act (1999).

Programme 1: Administration

Subprogramme		2023/24							Total adjustments appropriation	Adjusted appropriation
		Adjustments appropriation								
R thousand	Appropriation	Amounts announced in the Budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events	Other adjustments			
Ministry	5 745	–	–	–	–	–	–	–	5 745	
Institutional Planning and Support	169 532	–	–	33 172	–	–	–	33 172	202 704	
Corporate Services	163 061	–	–	49 939	–	–	–	49 939	213 000	
Office Accommodation	5 724	–	–	–	–	–	–	–	5 724	
Total	344 062	–	–	83 111	–	–	–	83 111	427 173	
Economic classification	317 924	–	–	82 596	–	–	–	82 596	400 520	
Current payments	317 924	–	–	82 596	–	–	–	82 596	400 520	
Compensation of employees	175 946	–	–	13 003	–	–	–	13 003	188 949	
Goods and services	141 978	–	–	69 593	–	–	–	69 593	211 571	
Transfers and subsidies	15 726	–	–	415	–	–	–	415	16 141	
Non-profit institutions	15 726	–	–	–	–	–	–	–	15 726	
Households	–	–	–	415	–	–	–	415	415	
Payments for capital assets	10 412	–	–	–	–	–	–	–	10 412	
Machinery and equipment	10 412	–	–	–	–	–	–	–	10 412	
Payments for financial assets	–	–	–	100	–	–	–	100	100	
Total	344 062	–	–	83 111	–	–	–	83 111	427 173	

Programme 2: Technology Innovation

Subprogramme		2023/24							
		Adjustments appropriation							
R thousand	Appropriation	Amounts announced in the Budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events	Other adjustments	Total adjustments appropriation	Adjusted appropriation
Space Science	986 508	-	-	3 665	-	(38 960)	-	(35 295)	951 213
Hydrogen and Energy	197 959	-	-	-	-	(710)	-	(710)	197 249
Bio-innovation	210 335	-	-	870	-	(530)	-	340	210 675
Innovation	1 112 396	-	-	(10 000)	-	(32 180)	-	(42 180)	1 070 216
Priorities and Instruments									
National Intellectual Property Management Office	56 311	-	-	-	-	-	-	-	56 311
Office of the Deputy Director-General: Technology Innovation	4 869	-	-	-	-	-	-	-	4 869
Total	2 568 378	-	-	(5 465)	-	(72 380)	-	(77 845)	2 490 533
Economic classification									
Current payments	75 597	-	-	2 992	-	-	-	2 992	78 589
Compensation of employees	53 443	-	-	2 029	-	-	-	2 029	55 472
Goods and services	22 154	-	-	963	-	-	-	963	23 117
Transfers and subsidies	2 492 781	-	-	(8 457)	-	(72 380)	-	(80 837)	2 411 944
Departmental agencies and accounts	2 035 555	-	-	25 000	-	(70 370)	-	(45 370)	1 990 185
Public corporations and private enterprises	120 210	-	-	(10 000)	-	(1 480)	-	(11 480)	108 730
Non-profit institutions	337 016	-	-	(23 622)	-	(530)	-	(24 152)	312 864
Households	-	-	-	165	-	-	-	165	165
Total	2 568 378	-	-	(5 465)	-	(72 380)	-	(77 845)	2 490 533

Programme 3: International Cooperation and Resources

Subprogramme		2023/24							
		Adjustments appropriation							
R thousand	Appropriation	Amounts announced in the Budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events	Other adjustments	Total adjustments appropriation	Adjusted appropriation
Multilateral Cooperation and Africa	33 093	-	-	-	-	-	-	-	33 093
International Resources	68 931	-	-	8 211	-	(934)	-	7 277	76 208
Overseas Bilateral Cooperation	42 714	-	-	(11 083)	-	-	-	(11 083)	31 631
Office of the Deputy Director-General: International Cooperation and Resources	5 148	-	-	-	-	-	-	-	5 148
Total	149 886	-	-	(2 872)	-	(934)	-	(3 806)	146 080

Programme 3: International Cooperation and Resources (continued)

Economic classification		2023/24							
		Adjustments appropriation						Total adjustments appropriation	Adjusted appropriation
R thousand	Appropriation	Amounts announced in the Budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events	Other adjustments		
Current payments	73 165	-	-	7 796	-	-	-	7 796	80 961
Compensation of employees	55 070	-	-	1 657	-	-	-	1 657	56 727
Goods and services	18 095	-	-	6 139	-	-	-	6 139	24 234
Transfers and subsidies	76 721	-	-	(10 668)	-	(934)	-	(11 602)	65 119
Departmental agencies and accounts	17 143	-	-	(10 673)	-	-	-	(10 673)	6 470
Non-profit institutions	59 578	-	-	-	-	(934)	-	(934)	58 644
Households	-	-	-	5	-	-	-	5	5
Total	149 886	-	-	(2 872)	-	(934)	-	(3 806)	146 080

Programme 4: Research, Development and Support

Subprogramme		2023/24							
		Adjustments appropriation						Total adjustments appropriation	Adjusted appropriation
R thousand	Appropriation	Amounts announced in the Budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events	Other adjustments		
Human Capital and Science Promotions	2 780 384	-	-	271	-	(52 065)	-	(51 794)	2 728 590
Science Missions	256 957	-	-	-	-	(19 183)	-	(19 183)	237 774
Basic Science and Infrastructure	1 241 503	-	-	(80 120)	-	(126 692)	-	(206 812)	1 034 691
Astronomy Office of the Deputy Director-General: Research, Development and Support	1 763 080	-	-	(360)	-	-	-	(360)	1 762 720
	4 080	-	-	-	-	-	-	-	4 080
Total	6 046 004	-	-	(80 209)	-	(197 940)	-	(278 149)	5 767 855
Economic classification									
Current payments	55 894	-	-	(360)	-	-	-	(360)	55 534
Compensation of employees	40 197	-	-	1 438	-	-	-	1 438	41 635
Goods and services	15 697	-	-	(1 798)	-	-	-	(1 798)	13 899
Transfers and subsidies	5 990 110	-	-	(79 849)	-	(197 940)	-	(277 789)	5 712 321
Departmental agencies and accounts	5 695 922	-	-	(40 120)	-	(197 940)	-	(238 060)	5 457 862
Public corporations and private enterprises	294 188	-	-	(40 000)	-	-	-	(40 000)	254 188
Households	-	-	-	271	-	-	-	271	271
Total	6 046 004	-	-	(80 209)	-	(197 940)	-	(278 149)	5 767 855

Programme 5: Socioeconomic Innovation Partnerships

Subprogramme		2023/24							
		Adjustments appropriation							
R thousand	Appropriation	Amounts announced in the Budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events	Other adjustments	Total adjustments appropriation	Adjusted appropriation
Sector	1 096 041	-	-	(189)	-	(38 685)	-	(38 874)	1 057 167
Innovation and Green Economy									
Innovation for Inclusive Development	384 702	-	-	-	-	-	-	-	384 702
Science and Technology Investment	25 314	-	-	5 624	-	(91)	-	5 533	30 847
Technology Localisation, Beneficiation and Advanced Manufacturing Office of the Deputy Director-General: Socioeconomic Innovation Partnership	256 442	-	-	-	-	(1 200)	-	(1 200)	255 242
	3 392	-	-	-	-	-	-	-	3 392
Total	1 765 891	-	-	5 435	-	(39 976)	-	(34 541)	1 731 350
Economic classification									
Current payments	55 389	-	-	5 407	-	-	-	5 407	60 796
Compensation of employees	45 861	-	-	873	-	-	-	873	46 734
Goods and services	9 528	-	-	4 534	-	-	-	4 534	14 062
Transfers and subsidies	1 710 502	-	-	28	-	(39 976)	-	(39 948)	1 670 554
Departmental agencies and accounts	520 488	-	-	-	-	(4 091)	-	(4 091)	516 397
Public corporations and private enterprises	1 190 014	-	-	-	-	(35 885)	-	(35 885)	1 154 129
Households	-	-	-	28	-	-	-	28	28
Total	1 765 891	-	-	5 435	-	(39 976)	-	(34 541)	1 731 350

Details of adjustments to the 2023 Estimates of National Expenditure

Virements and shifts within the vote

Programmes					
1. Administration					
2. Technology Innovation					
3. International Cooperation and Resources					
4. Research, Development and Support					
5. Socioeconomic Innovation Partnerships					
From:			To:		
Programme by economic classification	Motivation	R thousand	Programme by economic classification	Motivation	R thousand
Programme 1		(13 003)	Programme 1		13 003
Goods and services	Travel and subsistence ¹	(13 003)	Compensation of employees	Salaries and wages ¹	13 003
Shifts within the programme as a percentage of the programme budget		3.8%			
Virements to other programmes as a percentage of the programme budget		0.0%			

Virements and shifts within the vote (continued)

From:			To:		
Programme by economic classification	Motivation	R thousand	Programme by economic classification	Motivation	R thousand
Programme 2			Programme 1		
Goods and services	Agency and support/outsourced services	(508)	Goods and services	Travel and subsistence	508
Public corporations and private enterprises	Emerging research areas ¹	(10 000)		Audit fees, lease payments, property payments ¹	10 000
Non-profit institutions	Medical Research Council: Social impact bond ¹	(31 400)		Operational costs ¹	31 400
	Medical Research Council: Social impact bond ¹	(360)		Legal fees ¹	360
			Programme 2		
Goods and services	Agency and support/outsourced services ¹	(2 029)	Compensation of employees	Salaries and wages ¹	2 029
Non-profit institutions	Medical Research Council: Social impact bond	(3 500)	Goods and services	Travel and subsistence ¹	3 500
Shifts within the programme as a percentage of the programme budget		0.2%			
Virements to other programmes as a percentage of the programme budget		1.6%			
Programme 3			Programme 1		
Goods and services	Communication, venues and facilities	(415)	Goods and services	Travel and subsistence	415
Departmental agencies and accounts	Global science: Bilateral cooperation ¹	(100)	Payments for financial assets	Theft and losses ¹	100
	Global science: Bilateral cooperation ¹	(415)	Households	Donations, leave gratuities ¹	415
			Programme 2		
	Global science: Bilateral cooperation ¹	(165)	Households	Donations, leave gratuities ¹	165
			Programme 3		
Goods and services	Travel and subsistence ¹	(1 657)	Compensation of employees	Salaries and wages ¹	1 657
Departmental agencies and accounts	Global science: Bilateral cooperation ¹	(4 065)	Goods and services	Membership fees ¹	4 065
	Global science: Bilateral cooperation ¹	(5)	Households	Donations, leave gratuities ¹	5
			Programme 4		
	Global science: Bilateral cooperation ¹	(271)	Households	Donations, leave gratuities ¹	271
			Programme 5		
	Global science: Bilateral cooperation ¹	(5 624)	Goods and services	Research and development tax incentive applications ¹	5 624
	Global science: Bilateral cooperation ¹	(28)	Households	Donations, leave gratuities ¹	28
Shifts within the programme as a percentage of the programme budget		3.8%			
Virements to other programmes as a percentage of the programme budget		4.7%			

Virements and shifts within the vote (continued)

From:			To:		
Programme by economic classification	Motivation	R thousand	Programme by economic classification	Motivation	R thousand
Programme 4		(91 918)	Programme 1		39 966
Goods and services	Travel and subsistence	(360)	Goods and services	Travel and subsistence	360
Departmental agencies and accounts	Research and development infrastructure ¹	(18 226)	Goods and services	Computer services ¹	18 226
Public corporations and private enterprises	Council for Scientific and Industrial Research: Cyber infrastructure ¹	(21 110)	Goods and services	Property payments ¹	21 110
			Programme 2		36 638
Departmental agencies and accounts	Research and development infrastructure ¹	(7 748)	Non-profit institutions	International Centre for Genetic Engineering and Biotechnology ¹	7 748
Public corporations and private enterprises	Council for Scientific and Industrial Research: Cyber infrastructure ¹	(25 000)	Departmental agencies and accounts	Indigenous knowledge systems projects in the agriculture, health and water sectors	25 000
			Non-profit institutions	International Centre for Genetic Engineering and Biotechnology ¹	3 890
			Programme 3		4 146
Departmental agencies and accounts	Research and development infrastructure ¹	(4 146)	Goods and services	Membership fees ¹	4 146
			Programme 4		11 438
			Public corporations and private enterprises	South African Council for Natural and Applied Scientific Professions ¹	10 000
Goods and services	Travel and subsistence ¹	(1 438)	Compensation of employees	Salaries and wages ¹	1 438
Shifts within the programme as a percentage of the programme budget		0.2%			
Virements to other programmes as a percentage of the programme budget		1.3%			
Programme 5		(1 090)	Programme 1		217
Goods and services	Travel and subsistence	(217)	Goods and services	Travel and subsistence	217
			Programme 5		873
			Compensation of employees	Salaries and wages ¹	873
Shifts within the programme as a percentage of the programme budget		0.0%			
Virements to other programmes as a percentage of the programme budget		0.0%			
Total		(166 553)			166 553

1. National Treasury approval has been obtained.

Adjustments due to significant and unforeseeable economic and financial events

Cabinet has approved reductions of R311.23 million to the department's baseline, of which:

- R72.38 million is in Programme 2: Technology Innovation
- R934 000 is in Programme 3: International Cooperation and Resources
- R197.94 million is in Programme 4: Research, Development and Support
- R39.976 million is in Programme 5: Socioeconomic Innovation Partnerships.

Expenditure outcome for 2022/23 and actual expenditure for 2023/24

Programme	2022/23					2023/24				
	Adjusted appropriation	Outcome			Adjusted appropriation/ Total (%)	Actual expenditure				
		Apr 22 - Sep 22	Apr 22 - Sep 22 % of adjusted appropriation	Apr 22 - Mar 23		Apr 22 - Mar 23 % of adjusted appropriation	Apr 23 - Sep 23	Apr 23 - Sep 23 % of adjusted appropriation		
R thousand										
Administration	352 074	164 078	46.6	336 088	95.5	427 173	4.0	201 286	47.1	
Technology Innovation International Cooperation and Resources	1 907 025	460 621	24.2	1 890 565	99.1	2 490 533	23.6	520 724	20.9	
Research, Development and Support	149 387	53 068	35.5	161 269	108.0	146 080	1.4	68 265	46.7	
Socioeconomic Innovation Partnerships	4 979 152	3 031 416	60.9	4 981 225	100.0	5 767 855	54.6	3 763 038	65.2	
Total	9 145 262	4 561 585	49.9	9 120 855	99.7	10 562 991	100.0	5 517 057	52.2	
Economic classification										
Current payments	579 881	269 292	46.4	559 664	96.5	676 400	6.4	336 146	49.7	
Compensation of employees	357 650	163 939	45.8	340 478	95.2	389 517	3.7	185 678	47.7	
Goods and services	222 231	105 353	47.4	219 186	98.6	286 883	2.7	150 468	52.4	
Transfers and subsidies	8 554 102	4 289 212	50.1	8 550 022	100.0	9 876 079	93.5	5 175 753	52.4	
Departmental agencies and accounts	6 547 787	3 550 530	54.2	5 919 853	90.4	7 970 914	75.5	4 199 343	52.7	
Higher education institutions	–	75 499	–	255 827	–	–	–	125 861	–	
Public corporations and private enterprises	1 512 710	514 859	34.0	2 143 320	141.7	1 517 047	14.4	651 552	42.9	
Non-profit institutions	493 605	147 705	29.9	229 936	46.6	387 234	3.7	198 328	51.2	
Households	–	619	–	1 086	–	884	0.0	669	75.7	
Payments for capital assets	11 279	3 078	27.3	11 162	99.0	10 412	0.1	5 158	49.5	
Machinery and equipment	11 279	3 078	27.3	11 162	99.0	10 412	0.1	5 158	49.5	
Payments for financial assets	–	3	–	7	–	100	0.0	–	–	
Total	9 145 262	4 561 585	49.9	9 120 855	99.7	10 562 991	100.0	5 517 057	52.2	

Expenditure trends

Total expenditure in 2022/23 was R9.1 billion, 99.7 per cent of the adjusted appropriation for the year. Mid-year expenditure in 2022/23 was R4.6 billion, 49.9 per cent of the adjusted appropriation, whereas expenditure in the first half of 2023/24 was R5.5 billion, 52.2 per cent of the adjusted appropriation of R10.6 billion. Compared to the first half of 2022/23, expenditure over the same period in 2023/24 increased by R955.5 million, 20.9 per cent. This was mainly due to the processing of payments for research projects ahead of schedule.

Departmental receipts

R thousand	2022/23					2023/24				
	Adjusted estimate	Outcome				Budget estimate	Adjusted estimate	Adjusted receipts estimate/ Total (%)	Actual receipts	
		Apr 22 - Sep 22	Apr 22 - Sep 22 % of adjusted estimate	Apr 22 - Mar 23	Apr 22 - Mar 23 % of adjusted estimate				Apr 23 - Sep 23	Apr 23 - Sep 23 % of adjusted estimate
Departmental receipts	726	156	21.5	688	94.8	683	2 111	100.0	1 741	82.5
Sales of goods and services produced by the department:	70	35	50.0	71	101.4	60	70	3.3	37	52.9
Sales of scrap, waste, arms and other used current goods	6	3	50.0	3	50.0	3	6	0.3	3	50.0
Interest, dividends and rent on land	30	14	46.7	63	210.0	20	35	1.7	17	48.6
Sales of capital assets	–	–	–	–	–	–	500	23.7	407	81.4
Transactions in financial assets and liabilities	620	104	16.8	551	88.9	600	1 500	71.1	1 277	85.1
Total	726	156	21.5	688	94.8	683	2 111	100.0	1 741	82.5

Revenue trends

Mid-year revenue in 2022/23 was R156 000, 21.5 per cent of the adjusted estimate, whereas revenue for the first half of 2023/24 was R1.7 million, 82.5 per cent of the adjusted estimate of R2.1 million. Compared to the first half of 2022/23, revenue over the same period in 2023/24 increased by R1.6 million, 1 016 per cent. This was mainly due to an increase in surplus funds refunded to the department from projects run by public entities.

Changes to transfers and subsidies, including conditional grants

Summary of changes to transfers and subsidies per programme

R thousand	Appropriation	2023/24							Adjusted appropriation
		Adjustments appropriation						Total adjustments appropriation	
		Amounts announced in the budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events	Other adjustments		
Administration									
Households									
Social benefits									
Current	–	–	–	172	–	–	–	172	172
Households	–	–	–	172	–	–	–	172	172
Households									
Other transfers to households									
Current	–	–	–	243	–	–	–	243	243
Households	–	–	–	243	–	–	–	243	243

Summary of changes to transfers and subsidies per programme (continued)

		2023/24								
		Adjustments appropriation								
R thousand	Appropriation	Amounts announced in the budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events	Other adjustments	Total adjustments appropriation	Adjusted appropriation	
Technology Innovation Departmental agencies and accounts										
Departmental agencies (non-business entities)										
Current										
	2 004 416	-	-	25 000	-	(70 370)	-	(45 370)	1 959 046	
Various institutions: Energy grand challenge research	44 622	-	-	-	-	(710)	-	(710)	43 912	
Various institutions: Innovation projects research	521 389	-	-	-	-	(30 000)	-	(30 000)	491 389	
Various institutions: Space science research (economic competitiveness and support package)	33 419	-	-	-	-	(3 750)	-	(3 750)	29 669	
Technology Innovation Agency	460 131	-	-	-	-	(700)	-	(700)	459 431	
South African National Space Agency	163 063	-	-	-	-	(210)	-	(210)	162 853	
National Research Foundation: Research and development in indigenous knowledge systems	6 792	-	-	25 000	-	-	-	25 000	31 792	
Various institutions: Space science research (Space Infrastructure Hub)	775 000	-	-	-	-	(35 000)	-	(35 000)	740 000	
Public corporations and private enterprises										
Public corporations										
Other transfers										
Current										
	120 210	-	-	(10 000)	-	(1 480)	-	(11 480)	108 730	
Various institutions: Emerging research areas	120 210	-	-	(10 000)	-	(1 480)	-	(11 480)	108 730	

Summary of changes to transfers and subsidies per programme (continued)

		2023/24							
		Adjustments appropriation							
R thousand	Appropriation	Amounts announced in the budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events	Other adjustments	Total adjustments appropriation	Adjusted appropriation
Non-profit institutions									
Current									
	96 569	-	-	(23 622)	-	(530)	-	(24 152)	72 417
Various institutions:	44 683	-	-	-	-	(530)	-	(530)	44 153
Implementation of the bioeconomy strategy									
International Centre for Genetic Engineering and Biotechnology	16 626	-	-	11 638	-	-	-	11 638	28 264
Medical Research Council: Social impact bond	35 260	-	-	(35 260)	-	-	-	(35 260)	-
Households									
Social benefits									
Current									
	-	-	-	165	-	-	-	165	165
Households	-	-	-	165	-	-	-	165	165
International Cooperation and Resources									
Departmental agencies and accounts									
Departmental agencies (non-business entities)									
Current									
	17 143	-	-	(10 673)	-	-	-	(10 673)	6 470
National Research Foundation: Bilateral cooperation for global science development	17 143	-	-	(10 673)	-	-	-	(10 673)	6 470
Non-profit institutions									
Current									
	48 768	-	-	-	-	(934)	-	(934)	47 834
Various institutions: Global science (international multilateral agreements)	48 768	-	-	-	-	(934)	-	(934)	47 834
Households									
Social benefits									
Current									
	-	-	-	5	-	-	-	5	5
Households	-	-	-	5	-	-	-	5	5

Summary of changes to transfers and subsidies per programme (continued)

		2023/24								
		Adjustments appropriation								
R thousand	Appropriation	Amounts announced in the budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events	Other adjustments	Total adjustments appropriation	Adjusted appropriation	
	Research, Development and Support Departmental agencies and accounts Departmental agencies (non- business entities)									
	Current	2 254 272	–	–	(10 000)	–	(71 248)	–	(81 248)	2 173 024
	National Research Foundation: Human resources development for science and engineering	1 010 719	–	–	(10 000)	–	(2 000)	–	(12 000)	998 719
	National Research Foundation	1 001 295	–	–	–	–	(50 065)	–	(50 065)	951 230
	Various institutions: Strategic science platforms for research and development	242 258	–	–	–	–	(19 183)	–	(19 183)	223 075
	Capital	899 583	–	–	(30 120)	–	(126 692)	–	(156 812)	742 771
	Various institutions: Infrastructure projects for research and development	899 583	–	–	(30 120)	–	(126 692)	–	(156 812)	742 771
	Public corporations and private enterprises Public corporations Other transfers									
	Current	–	–	–	10 000	–	–	–	10 000	10 000
	South African Council for Natural and Applied Scientific Professions: Operations	–	–	–	10 000	–	–	–	10 000	10 000
	Capital	294 188	–	–	(50 000)	–	–	–	(50 000)	244 188
	Council for Scientific and Industrial Research: Cyber- infrastructure research and development	294 188	–	–	(50 000)	–	–	–	(50 000)	244 188

Summary of changes to transfers and subsidies per programme (continued)

		2023/24							
		Adjustments appropriation							
R thousand	Appropriation	Amounts announced in the budget	Unforeseeable /Unavoidable	Virements and shifts	Shifting of funds between votes	Significant and unforeseeable economic and financial events	Other adjustments	Total adjustments appropriation	Adjusted appropriation
	Households								
	Other transfers to households								
	Current	-	-	271	-	-	-	271	271
	Households	-	-	271	-	-	-	271	271
	Socioeconomic								
	Innovation								
	Partnerships								
	Departmental agencies and accounts								
	Departmental agencies (non-business entities)								
	Current	49 962	-	-	-	(4 091)	-	(4 091)	45 871
	Human Sciences Research Council: Develop and monitor science and technology indicators	15 617	-	-	-	(91)	-	(91)	15 526
	Various institutions: Environmental innovation	34 345	-	-	-	(4 000)	-	(4 000)	30 345
	Public corporations and private enterprises								
	Public corporations								
	Subsidies on production or products								
	Current	1 006 119	-	-	-	(34 685)	-	(34 685)	971 434
	Council for Scientific and Industrial Research	1 006 119	-	-	-	(34 685)	-	(34 685)	971 434
	Public corporations and private enterprises								
	Public corporations								
	Other transfers								
	Current	37 478	-	-	-	(1 200)	-	(1 200)	36 278
	Various institutions: Resource-based industries research and development	37 478	-	-	-	(1 200)	-	(1 200)	36 278
	Households								
	Social benefits								
	Current	-	-	28	-	-	-	28	28
	Households	-	-	28	-	-	-	28	28