Science and Innovation

Adjusted budget summary

			2020/21		
		Adjustments	Second adjustments a	ppropriation	Adjusted
R thousand	Appropriation	appropriation	Decrease	Increase	appropriation
Amount to be appropriated	8 797 393	(1 435 500)	(84 246)	640	7 278 287
of which:					
Current payments	632 471	(93 442)	(32 055)	-	506 974
Transfers and subsidies	8 162 158	(1 342 058)	(52 191)	-	6 767 909
Payments for capital assets	2 764	_	_	640	3 404
Executive authority	Minister of Science an	d Technology		<u> </u>	
Accounting officer	Director-General of So	ience and Technr	nology		
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	An	Annual performance				
			Projected for 2020/21	Achieved in the first half of 2020/21 (April to September)	Changed target for 2020/21			
Number of instruments funded in support of knowledge utilisation per year	Technology Innovation	Priority 2: Economic	10	0	_			
Number of commercial outputs in designated areas per year	Technology Innovation	transformation and job creation	4	0 ¹	_			
Number of international resource leveraging engagements undertaken by the department per year	International Cooperation and Resources	Priority 7: A better Africa and world	43	11 ¹	_			
Number of doctoral students awarded bursaries per year, as reflected in reports from the National Research Foundation and relevant entities	Research, Development and Support		2 400	2 462	_			
Number of pipeline postgraduate students (BTech, honours and masters' students) awarded bursaries per year, as reflected in reports from the National Research Foundation and relevant entities	Research, Development and Support		8 000	7 214	_			
Number of researchers awarded research grants per year through programmes managed by the National Research Foundation reflected in the foundation's project reports	Research, Development and Support	Priority 3: Education, skills and health	3 000	2 322	_			
Number of knowledge and innovation products (patents, prototypes, technology demonstrators or technology transfer packages) added to the intellectual property portfolio through fully funded or co-funded research initiatives per year	Socioeconomic Innovation Partnerships		42	8	-			

 $^{1. \}quad \textit{Target not met due to COVID-19 lockdown}.$

Changes to indicators and targets published in the 2020 ENE

The indicator on the number of instruments funded in support of knowledge utilisation per year was erroneously included in the 2020 Budget, which was completed before the department's strategic and annual performance plans were finalised. These plans do not include this indicator.

Mid-year progress

Administrative delays in 2019/20 resulted in funds being carried over to 2020/21. As a result, the National Research Foundation was able to support more doctoral students, postgraduate students and researchers than anticipated in the first half of the year.

By mid-year, only 8 knowledge and innovation products were added to the intellectual property portfolio against an annual target of 42. The slow progress is due to a lack of industrially relevant knowledge and innovation products in the market.

Adjusted estimates

Programme					2020/21				
				Sec	ond adjustm	ents appro	priation		
						Declared		Total second	
		Adjustments	Roll-	Unforeseeable/	Virements	unspent	Other	adjustments	Adjusted
R thousand	Appropriation	appropriation	overs	unavoidable1	and shifts	funds	adjustments	appropriation	appropriation
Administration	360 303	(41 982)	_	-	(4 716)	_	(9 498)	(14 214)	304 107
Technology	1 504 480	(129 542)	_	_	10 397	_	(7 014)	3 383	1 378 321
Innovation									
International	156 440	(35 293)	_	_	(1 372)	_	(2 973)	(4 345)	116 802
Cooperation and									
Resources									
Research,	4 882 470	(1 070 616)	_	_	32 935	_	(99 541)	(66 606)	3 745 248
Development and									
Support									
Socioeconomic	1 893 700	(158 067)	_	44 999	(37 244)	_	(9 579)	(1 824)	1 733 809
Innovation									
Partnerships									
Total	8 797 393	(1 435 500)	_	44 999	_	_	(128 605)	(83 606)	7 278 287
Economic									
classification									
Current payments	632 471	(93 442)	_	_	(12 055)	_	(20 000)	(32 055)	506 974
Compensation of	421 993	(40 000)	_	_	_	_	(20 000)	(20 000)	361 993
employees		, ,					, ,	, ,	
Goods and services	210 478	(53 442)	_	_	(12 055)	_	_	(12 055)	144 981
Transfers and	8 162 158	(1 342 058)	_	44 999	11 415	_	(108 605)	(52 191)	6 767 909
subsidies									
Departmental	6 179 895	(1 034 659)	_	44 999	45 898	_	(104 301)	(13 404)	5 131 832
agencies and		,					, ,	, ,	
accounts									
Public corporations	1 593 265	(297 842)	_	_	(34 483)	_	(4 304)	(38 787)	1 256 636
and private									
enterprises									
Non-profit	388 998	(9 557)	_	_	_	_	_	_	379 441
institutions									
Payments for	2 764	_	-	_	640	-	_	640	3 404
capital assets									
Machinery and	2 764	_	_	_	640	-	_	640	3 404
equipment									
	,								
Total	8 797 393	(1 435 500)	_	44 999	_	_	(128 605)	(83 606)	7 278 287

^{1.} Unforeseeable and unavoidable expenditure in terms of section 6(1)(a) of the Appropriation Act (2020).

Programme 1: Administration

Subprogramme	-		,		2020/21				
				Sec	ond adjustm	ents appro	priation		
						Declared		Total second	
		Adjustments	Roll-	Unforeseeable/	Virements	unspent	Other	adjustments	Adjusted
R thousand	Appropriation	appropriation	overs	unavoidable	and shifts	funds	adjustments	appropriation	appropriation
Ministry	5 886	_	_	_	_	_	_	_	5 886
Institutional	185 935	(32 989)	_	_	(6 765)	_	(5 001)	(11 766)	141 180
Planning and									
Support									
Corporate Services	162 875	(8 993)	_	_	2 049	-	(4 497)	(2 448)	151 434
Office	5 607	_	_	_	_	-	_	_	5 607
Accommodation									
Total	360 303	(41 982)	_	=	(4 716)	_	(9 498)	(14 214)	304 107
Economic									
classification									
Current payments	341 945	(41 982)	_	_	(5 356)	_	(9 498)	(14 854)	285 109
Compensation of	200 394	(18 995)	-	_	-	_	(9 498)	(9 498)	171 901
employees									
Goods and services		(22 987)	_	_	(5 356)	-	_	(5 356)	113 208
Transfers and	15 594	_	_	-	-	_	-	_	15 594
subsidies	45.504								45.504
Non-profit institutions	15 594	_	_	_	_	_	_	_	15 594
Payments for	2 764	_	_		640		_	640	3 404
capital assets	2,04				0.10			0.40	3 404
Machinery and equipment	2 764	_	_	_	640	-	-	640	3 404
Total	360 303	(41 982)	_	_	(4 716)	_	(9 498)	(14 214)	304 107

Programme 2: Technology Innovation

Subprogramme					2020/21				
				Sec	ond adjustm	ents appro	priation		
						Declared		Total second	
		Adjustments	Roll-	Unforeseeable/	Virements	unspent	Other	adjustments	Adjusted
R thousand	Appropriation	appropriation	overs	unavoidable	and shifts	funds	adjustments	appropriation	appropriation
Space Science	230 105	(20 471)	_	_	18 982	-	(2 682)	16 300	225 934
Hydrogen and	185 240	(1 890)	_	_	_	_	_	_	183 350
Energy									
Bio-innovation	201 164	(5 031)	_	_	11 415	_	(2 885)	8 530	204 663
Innovation Priorities	826 879	(99 273)	_	_	(20 000)	_	(1 447)	(21 447)	706 159
and Instruments									
National Intellectual	55 776	(1 540)	-	_	_	-	_	_	54 236
Property Manageme	ent								
Office									
Office of the	5 316	(1 337)	_	-	-	-	-	_	3 979
Deputy Director-									
General:									
Technology									
Innovation									
Total	1 504 480	(129 542)	_	-	10 397	_	(7 014)	3 383	1 378 321
Economic									
classification									
Current payments	84 221	(15 747)	_	_	(1 018)	_	(2 885)	(3 903)	64 571
Compensation of	60 866	(5 769)	_	-	-	-	(2 885)	(2 885)	52 212
employees									
Goods and services	23 355	(9 978)	_	_	(1 018)	_	_	(1 018)	12 359
Transfers and	1 420 259	(113 795)	_	_	11 415	_	(4 129)	7 286	1 313 750
subsidies									
Departmental	988 271	(113 795)	_	_	11 415	_	(4 129)	7 286	881 762
agencies and									
accounts									
Public corporations	116 492	_	-	_	_	-	_	_	116 492
and private									
enterprises									
Non-profit	315 496	_	-	-	-	-	-	_	315 496
institutions									
Total	1 504 480	(129 542)		_	10 397	_	(7 014)	3 383	1 378 321

Programme 3: International Cooperation and Resources

Subprogramme					2020/21				
				Sec	ond adjustm	ents appro	priation		
						Declared		Total second	
		Adjustments	Roll-	Unforeseeable/	Virements	unspent	Other	adjustments	Adjusted
R thousand	Appropriation	appropriation	overs	unavoidable	and shifts	funds	adjustments	appropriation	appropriation
Multilateral	34 661	(7 110)	_	-	_	-	_	_	27 551
Cooperation and									
Africa									
International	69 955	(13 354)	_	-	_	-	_	_	56 601
Resources									
Overseas Bilateral	46 132	(13 413)	_	-	(1 372)	-	(2 973)	(4 345)	28 374
Cooperation									
Office of the	5 692	(1 416)	_	-	_	-	_	_	4 276
Deputy Director-									
General:									
International									
Cooperation and									
Resources									
Total	156 440	(35 293)	_	-	(1 372)	-	(2 973)	(4 345)	116 802
Economic									
classification									
Current payments	81 814	(20 368)	_	_	(1 372)	-	(2 973)	(4 345)	57 101
Compensation of	62 724	(5 946)	_	-	-	-	(2 973)	(2 973)	53 805
employees									
Goods and services	19 090	(14 422)	_	_	(1 372)	-	_	(1 372)	3 296
Transfers and	74 626	(14 925)	_	=	_	_	_	-	59 701
subsidies									
Departmental	16 718	(5 368)	_	-	-	-	_	-	11 350
agencies and									
accounts									
Non-profit	57 908	(9 557)	_	_	_	_	_	_	48 351
institutions									
Total	156 440	(35 293)	_	-	(1 372)	_	(2 973)	(4 345)	116 802

Programme 4: Research, Development and Support

Subprogramme					2020/21				
				Sec	ond adjustm	ents appro	priation		
						Declared		Total second	
		Adjustments	Roll-	Unforeseeable/	Virements	unspent	Other	adjustments	Adjusted
R thousand	Appropriation	appropriation	overs	unavoidable	and shifts	funds	adjustments	appropriation	appropriation
Human Capital and	2 707 929	(414 672)	_	-	_	-	(10 286)	(10 286)	282 971
Science									
Promotions									
Science Missions	247 400	(42 459)	_	_	_	_	(2 170)	(2 170)	202 771
Basic Science and	1 094 915	(250 804)	_	_	_	-	(87 085)	(87 085)	757 026
Infrastructure									
Astronomy	827 741	(362 329)	_	_	32 935	-	_	32 935	498 347
Office of the	4 485	(352)	_	_	_	-	_	_	4 133
Deputy Director-									
General: Research,									
Development and									
Support									
Total	4 882 470	(1 070 616)	-	-	32 935	-	(99 541)	(66 606)	3 745 248
Economic									
classification									
Current payments	62 222	(10 394)	_	_	(1 548)	-	(2 170)	(3 718)	48 110
Compensation of	45 779	(4 339)	_	-	_	-	(2 170)	(2 170)	39 270
employees									
Goods and services	16 443	(6 055)	_	_	(1 548)	_	_	(1 548)	8 840
Transfers and	4 820 248	(1 060 222)	_	_	34 483	_	(97 371)	(62 888)	3 697 138
subsidies									
Departmental	4 560 030	(860 222)	_	-	34 483	-	(97 371)	(62 888)	3 636 920
agencies and									
accounts									
Public corporations	260 218	(200 000)	_	_	_	-	_	_	60 218
and private									
enterprises									
•									
Total	4 882 470	(1 070 616)	_	_	32 935	_	(99 541)	(66 606)	3 745 248

Programme 5: Socioeconomic Innovation Partnerships

Subprogramme					2020/21				
				Sec	ond adjustm	ents appro	priation		
						Declared		Total second	
		Adjustments	Roll-	Unforeseeable/	Virements	unspent	Other	adjustments	Adjusted
R thousand	Appropriation	appropriation	overs	unavoidable1	and shifts	funds	adjustments	appropriation	appropriation
Sector Innovation	1 081 244	(65 282)	_	12 133	(36 532)	_	(4 304)	(28 703)	987 259
and Green									
Economy									
Innovation for	383 814	(37 274)	_	28 438	_	_	(5 275)	23 163	369 703
Inclusive									
Development									
Science and	36 970	(4 951)	_	_	_	_	_	_	32 019
Technology									
Investment									
Technology	388 143	(50 560)	_	4 428	(712)	_	_	3 716	341 299
Localisation,		, ,							
Beneficiation and									
Advanced									
Manufacturing									
Office of the	3 529	_	_	_	_	_	_	_	3 529
Deputy Director-									
General:									
Socioeconomic									
Innovation									
Partnership									
Total	1 893 700	(158 067)	-	44 999	(37 244)	_	(9 579)	(1 824)	1 733 809
Economic									
classification									
Current payments	62 269	(4 951)	_	_	(2 761)	_	(2 474)	(5 235)	52 083
Compensation of	52 230	(4 951)	_	_	_	_	(2 474)	(2 474)	44 805
employees									
Goods and services	10 039	_	_	-	(2 761)	_	_	(2 761)	7 278
Transfers and	1 831 431	(153 116)	_	44 999	(34 483)	_	(7 105)	3 411	1 681 726
subsidies									
Departmental	614 876	(55 274)	_	44 999	_	_	(2 801)	42 198	601 800
agencies and									
accounts									
Public corporations	1 216 555	(97 842)	_	_	(34 483)	_	(4 304)	(38 787)	1 079 926
and private					. ,		, ,		
enterprises									
•									
Total	1 893 700	(158 067)	_	44 999	(37 244)	-	(9 579)	(1 824)	1 733 809

^{1.} Unforeseeable and unavoidable expenditure in terms of section 6(1)(a) of the Appropriation Act (2020).

Details of adjustments to the 2020 Estimates of National Expenditure

Unforeseeable and unavoidable expenditure – R44.999 million

Programme 5: Socioeconomic Innovation Partnerships

An additional R28.438 million is allocated to the Human Science Research Council as part of the presidential employment intervention for recruiting 1 000 graduates to be health promotion agents.

An additional R4.329 million is allocated to the Council for Scientific and Industrial Research to train 350 graduates as environmental champions to conduct door-to-door community education and awareness campaigns; and an additional R4.428 million is allocated to provide experiential training to a targeted 150 graduates.

An additional R7.804 million is allocated to the programme for the department to appoint 400 unemployed graduates to the water graduate employment programme, implemented in partnership with the Water Research Commission.

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

5. 30cloeconomic mnovaci	on raitherships		T		
From:			To:		
Programme by economic classification	Motivation	R thousand	Programme by economic classification	Motivation	R thousand
Programme 1	Motivation	(7 405)	<u> </u>	Wiotivation	640
Goods and services	Travel and subsistence	(640)		ICT equipment	640
doods and services	Traver and subsistence	(640)	equipment	ici equipinent	040
			Programme 2		6 765
	Operating leases, travel and	(6 765)		Indigenous knowledge	6 765
	subsistence, and venues and	(0,00)	and accounts	systems projects in	0,00
	facilities			the agriculture, health	
				and water sectors	
Shifts within the programm	ne as a percentage of the	0.2%			
programme budget					
Virements to other progra	ammes as a percentage of the	1.9%			
programme budget					
Programme 2		(1 018)	Programme 2		1 018
Goods and services	Travel and subsistence	(1 018)		Indigenous knowledge	1 018
			and accounts	systems projects in	
				the agriculture, health	
				and water sectors	
Shifts within the programm	ne as a percentage of the	0.1%			
programme budget		0.00/			
	ammes as a percentage of the	0.0%			
Programme 3		(1 372)	Programme 2		1 372
Goods and services	Travel and subsistence	(1 372)	Departmental agencies	Indigenous knowledge	1 372
doods and services	Travel and Subsistence	(1372)	and accounts	systems projects in	13/2
			and accounts	the agriculture, health	
				and water sectors	
Shifts within the programm	ne as a percentage of the	0.0%			
programme budget	. 0				
Virements to other progra	ammes as a percentage of the	0.9%			
programme budget					
Programme 4		(1 548)	Programme 2		1 548
Goods and services	Travel and subsistence	(1 548)	Departmental agencies	Indigenous knowledge	1 548
			and accounts	systems projects in	
				the agriculture, health	
				and water sectors	
Shifts within the programm	ne as a percentage of the	0.0%			
programme budget					
	ammes as a percentage of the	0.0%			
programme budget		(27.2.4)			
Programme 5	Travel and subsistence	(37 244)	Programme 1	0	2 049
Goods and services	Travel and subsistence	(2 049)	Goods and services	Operating leases	2 049
	The other desired as a	(74.2)	Programme 2	Ladra and Ladra	712
	Travel and subsistence	(712)		Indigenous knowledge	712
			and accounts	systems projects in	
				the agriculture, health	
			Drogrammo 4	and water sectors	24 402
Dublic corporations and	Declaration of front	(24.402)	Programme 4	National Dasses	34 483
Public corporations and	Reclassification of funds incorrectly classified in the 2020	(34 483)	Departmental agencies	National Research	34 483
private enterprises	Supplementary Budget ¹		and accounts	Foundation (Square	
Shifts within the programm	, , ,	0.0%		Kilometre Array) ¹	
programme budget	ne as a percentage of the	0.0%			
	ammes as a percentage of the	2.0%			
programme budget	animes as a percentage of the	2.0/0			
Total		(48 587)			48 587
		,,	1		

^{1.} National Treasury approval has been obtained.

Other adjustments - R128.605 million

Adjustments to expenditure earmarked in the 2020 Budget and Supplementary Budget

Programme 1: Administration

A reduction of R9.498 million is effected on compensation of employees.

Programme 2: Technology Innovation

A reduction of R2.885 million is effected on compensation of employees. Reductions on transfers to the South African National Space Agency (R2.682 million) and the Technology Innovation Agency (R1.447 million) are effected.

Programme 3: International Cooperation and Resources

A reduction of R2.973 million is effected on compensation of employees.

Programme 4: Research and Development and Support

A reduction of R2.17 million is effected on compensation of employees. Reductions on transfers to the Academy of Science of South Africa (R268 000) and the National Research Foundation (R10.018 million) are effected.

Programme 5: Socioeconomic Innovation Partnerships

A reduction of R2.474 million is effected on compensation of employees. Reductions on transfers to the Council for Scientific and Industrial Research (R4.304 million) and the Human Sciences Research Council (R2.801 million) are effected.

Funds shifted between votes

R87.085 million is transferred to the Department of Public Enterprises for the implementation of the South African Airways business rescue plan in terms of section 30(2)(e) of the Public Finance Management Act (1999).

Expenditure outcome for 2019/20 and actual expenditure for 2020/21

Programme			2019	9/20			2020/2	1		
			Outo	ome				Actual	Actual expenditure	
			Apr 19 -		Apr 19 -				Apr 20 -	
			Sep 19		Mar 20		Adjusted		Sep 20	
	Adjusted	Apr 19 -	% of adjusted	Apr 19 -	% of adjusted	Adjusted	appropriation/	Apr 20 -	% of adjusted	
R thousand	appropriation	Sep 19	appropriation	Mar 20	appropriation	appropriation	Total (%)	Sep 20	appropriation	
Administration	391 317	153 888	39.3	352 076	90.0	304 107	4.2	107 641	35.4	
Technology Innovation	1 224 305	469 581	38.4	1 236 673	101.0	1 378 321	18.9	653 262	47.4	
International Cooperation and	149 008	56 053	37.6	136 027	91.3	116 802	1.6	30 558	26.2	
Resources Research, Development and Support	4 572 935	2 555 714	55.9	4 578 431	100.1	3 745 248	51.5	2 056 241	54.9	
Socioeconomic Innovation Partnerships	1 834 739	881 139	48.0	1 778 196	96.9	1 733 809	23.8	864 306	49.9	
Subtotal	8 172 304	4 116 375	50.4	8 081 403	98.9	7 278 287	100.0	3 712 008	51.0	
Total	8 172 304	4 116 375	50.4	8 081 403	98.9	7 278 287	100.0	3 712 008	51.0	

Expenditure outcome for 2019/20 and actual expenditure for 2020/21

Programme			201	9/20			2020/2:	1	
			Out	come				Actual e	expenditure
			Apr 19 -		Apr 19 -				Apr 20 -
			Sep 19		Mar 20		Adjusted		Sep 20
	Adjusted	Apr 19 - 9	% of adjusted	Apr 19 -	% of adjusted	Adjusted	appropriation/	Apr 20 -	% of adjusted
R thousand	appropriation	Sep 19 a	ppropriation	Mar 20	appropriation	appropriation	Total (%)	Sep 20	appropriation
Economic classi	ification								
Current	645 661	252 977	39.2	558 707	86.5	506 974	7.0	196 080	38.7
payments									
Compensation	389 105	168 189	43.2	336 658	86.5	361 993	5.0	155 192	42.9
of employees									
Goods and	256 556	84 788	33.0	222 049	86.5	144 981	2.0	40 888	28.2
services									
Transfers and	7 523 880	3 857 142	51.3	7 514 812	99.9	6 767 909	93.0	3 514 799	51.9
subsidies									
Departmental	5 605 284	3 216 053	57.4	5 165 306	92.2	5 131 832	70.5	2 839 772	55.3
agencies and									
accounts									
Public	1 541 908	566 373	36.7	1 811 667	117.5	1 256 636	17.3	520 010	41.4
corporations									
and private									
enterprises									
Non-profit	376 133	72 726	19.3	533 590	141.9	379 441	5.2	154 703	40.8
institutions									
Households	555	1 990	358.6	4 249	765.6	-	_	314	_
Payments for	2 763	6 247	226.1	7 775	281.4	3 404	0.0	1 061	31.2
capital assets									
Machinery and	2 763	6 247	226.1	7 775	281.4	3 404	0.0	1 061	31.2
equipment									
Payments for	-	9	-	109	_	_	-	68	_
financial									
assets									
Total	8 172 304	4 116 375	50.4	8 081 403	98.9	7 278 287	100.0	3 712 008	51.0

Expenditure trends

Total expenditure in 2019/20 was R8.1 billion, 98.9 per cent of the adjusted appropriation for the year. Mid-year expenditure in 2019/20 was R4.1 billion, 50.4 per cent of the 2019/20 adjusted appropriation, whereas expenditure in the first half of 2020/21 was R3.7 billion, 51 per cent of the adjusted appropriation of R7.3 billion for the year. Compared to the first half of 2019/20, expenditure over the same period in 2020/21 decreased by R404.4 million, 9.8 per cent. This was mainly due to a decrease in the number of research and development initiatives conducted as a result of the COVID-19 lockdown.

Departmental receipts

			2019	/20				2020/21		
			Outco	ome					Actual	receipts
			Apr 19 - Sep 19 % of		Apr 19 - Mar 20 % of			Adjusted receipts		Apr 20 - Sep 20 % of
R thousand	Adjusted estimate	Apr 19 - Sep 19	adjusted estimate	Apr 19 - Mar 20	adjusted estimate	Budget estimate	Adjusted estimate	estimate/ Total (%)	Apr 20 - Sep 20	adjusted estimate
Departmental	20 081	16 040	79.9	19 416	96.7	545	2 076	100.0	1 570	75.6
receipts										
Sales of goods and services produced by department	66	27	40.9	69	104.5	35	60	2.9	34	56.7
Sales of scrap, waste, arms and other used current goods	_	-	-	-	-	-	3	0.1	2	66.7
Interest, dividends and rent on land	15	2	13.3	13	86.7	10	10	0.5	1	10.0
Transactions in financial assets and liabilities	20 000	16 011	80.1	19 334	96.7	500	2 003	96.5	1 533	76.5
Total	20 081	16 040	79.9	19 416	96.7	545	2 076	100.0	1 570	75.6

Revenue trends

Mid-year revenue in 2019/20 was R16 million, 79.9 per cent of the 2019/20 adjusted estimate, whereas revenue in the first half of 2020/21 was R1.6 million, 75.6 per cent of the adjusted estimate of R2.1 million for the year. Compared to the first half of 2019/20, revenue over the same period in 2020/21 decreased by R14.5 million, 90.2 per cent. This was mainly due to a decrease in revenue from projects run by entities.

Changes to transfers and subsidies, including conditional grants

Summary of changes to transfers and subsidies per programme

		2020/21								
	·				Seco	nd adjustm	ents appro	priation		-
							Declared		Total second	
		Special	Adjustments	Roll-	Unforeseeable/	Virements	unspent	Other	adjustments	Adjusted
R thousand	Appropriation	appropriation	appropriation	overs	unavoidable	and shifts	funds	adjustments	appropriation	appropriation
Technology										
Innovation										
Departmental										
agencies and										
accounts										
Departmental										
agencies (non-										
business										
entities)										
Current	916 153	_	(113 795)	_	_	11 415	_	(4 129)	7 286	809 644
Various	241 376		(50 000)			(20 000)		(+ 123)	(20 000)	171 376
institutions:	241 370		(30 000)		_	(20 000)			(20 000)	1/13/0
Innovation										
projects										
research	24 444					20.000			20.000	F4 44
Various	31 441	_	_	_	_	20 000	-	_	20 000	51 44:
institutions:										
Space science										
research:										
Economic										
competitiveness										
and support										
package										
Technology	455 858	_	(45 586)	-	-	_	-	(1 447)	(1 447)	408 82
Innovation										
Agency										
South African	182 087	_	(18 209)	_	_	_	-	(2 682)	(2 682)	161 196
National Space										
Agency										
National	5 391	_	_	_	_	11 415	_	_	11 415	16 80
Research										
Foundation:										
Research and										
development in										
indigenous										
knowledge										
systems										
International										
Cooperation										
and Resources										
Departmental										
agencies and										
accounts										
Departmental										
agencies (non-										
business										
entities)										
•	46 740		/F 3C3\							44 354
Current	16 718		(5 368)	_			_		_	11 350
National -	16 718	_	(5 368)	_	_	-	-	_	_	11 350
Research										
Foundation:										
Bilateral										
cooperation for										
global science										
development										

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

				ı		2020/21 and adjustm				
		Special	Adjustments	Roll-	Unforeseeable/	Virements	Declared unspent	Other	Total second adjustments	Adjusted
R thousand	Appropriation	appropriation			unavoidable		-	adjustments	•	-
Non-profit	при органия	арр. ор. ши.о	арріоріішион	0.0.0		4.14 5		,	арр. ор. астоп	арр. ор. шист
institutions										
Current	47 557	_	(9 557)	-		-	-	_		38 000
Various	47 557	_	(9 557)	_	-	-	-	_	-	38 000
institutions:										
Global science:										
International multilateral										
agreements										
Research,										
Development										
and Support										
Departmental										
agencies and										
accounts										
Departmental										
agencies (non- business entities										
Current) 2 897 726	_	(451 544)	_	_	_	_	(10 286)	(10 286)	2 435 896
Academy of	27 898		(2 790)	_		_	_	(268)	(268)	24 840
Science of South	2, 656		(2750)					(200)	(200)	24040
Africa										
National Research	h 993 972	_	(200 000)	_	_	-	-	_	_	793 972
Foundation:										
Human resources	5									
development for										
science and										
engineering National Research	h 966 097		(96 610)					(10 018)	(10 018)	859 469
Foundation	300 037		(30 010)					(10 018)	(10 018)	855 405
Various	85 498	_	(52 000)	_	_	_	_	_	_	33 498
institutions:			(0_000)							
Science										
awareness,										
research and										
initiatives to										
encourage youth										
participation in science										
National Research	h 593 508	_	(60 000)	_	_	_	_	_	_	533 508
Foundation:	333 303		(00 000)							333 303
South African										
research chairs										
initiative to										
develop human										
resources in science										
Various	230 753	_	(40 144)	_	_	_	_		_	190 609
institutions:	230 733		(40 144)							190 009
Strategic science										
platforms for										
research and										
development										
Capital	1 574 599	_	(408 678)	-		34 483	-	(87 085)	(52 602)	1 113 319
Various	793 821	_	(50 000)	-	_	_	_	(87 085)	(87 085)	656 736
institutions: Infrastructure										
projects for										
research and										
development										
National Research	h 780 778	_	(358 678)	_	_	34 483	_	_	34 483	456 583
Foundation:			'							
Square Kilometre										
Array: Capital										
contribution to										
research										

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

		1		Ī						
		Special	Adiustmonts	Dall	Unforeseeable/	Viromonto	Declared	Other	Total second	
R thousand	Appropriation	appropriation	Adjustments appropriation	overs	unavoidable		-	adjustments	•	Adjusted appropriation
Public	. ipp. op. ia.ioi.	арр. ор. шист	арргоришион	0.0.0					арр. ор. астоп	арр. ор. шион
corporations and										
private enterprises										
Public										
corporations Other transfers										
Other transfers Capital	260 218		(200 000)	_	_	_	_	_	_	60 218
Council for	260 218		(200 000)						_	60 218
Scientific and	200 210		(200 000)							00 210
Industrial										
Research:										
Cyberinfrastructur										
e research and										
development										
Socioeconomic Innovation										
Partnerships										
Departmental										
agencies and										
accounts										
Departmental										
agencies (non-										
business entities)										
Current	496 819		(55 274)		44 999	_		(2 801)	42 198	483 743
Various	64 978	_	(18 000)	-	_	_	_	_	_	46 978
institutions: Economic										
competitiveness										
and support										
package: Local										
systems of										
innovation for the										
cold chain										
technologies										
project Various	46 375		(4 815)		28 438				28 438	69 998
institutions:	40 373	_	(4 813)	_	20 430	_	_	_	20 430	09 996
Innovative										
research and										
development										
Human Sciences	324 585	_	(32 459)	-	_	-	-	(2 801)	(2 801)	289 325
Research Council										
Various	30 067	_	-	-	4 428	-	-	_	4 428	34 495
institutions: Local manufacturing										
capacity research										
and technical										
support										
Various	30 814	_	-	_	12 133	_	_	_	12 133	42 947
institutions:										
Environmental										
innovation										
Public										
corporations and										
private enterprises Public										
corporations										
Subsidies on										
production or										
products										
Current	997 650		(99 765)	-	_	-	-	(4 304)	(4 304)	893 581
Council for	997 650	-	(99 765)	-	-	-	-	(4 304)	(4 304)	893 581
Scientific and										
Industrial Research										

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

	2020/21									
				Second adjustments appropriation						
							Declared		Total second	
		Special	•		Unforeseeable/		unspent	Other	adjustments	-
R thousand	Appropriation	appropriation	appropriation	overs	unavoidable	and shifts	funds	adjustments	appropriation	appropriation
Public										
corporations										
and private										
enterprises										
Public										
corporations										
Other transfers						((0)	
Current	218 905	-	1 923	_		(34 483)	-		(34 483)	186 345
Various	61 561	_	(3 985)	_	_	-	_	_	_	57 576
institutions:										
Advanced										
manufacturing										
technology										
strategy										
implementation										
Various	39 839	_	34 483	_	_	(34 483)	-	_	(34 483)	39 839
institutions:										
Information and										
communications										
technology										
Council for	62 034	_	(20 375)	_	-	_	_	_	_	41 659
Scientific and										
Industrial										
Research:										
Mining research										
and										
development			(0.333)							47.0
Various	55 471	_	(8 200)	_	_	-	_	_	_	47 271
institutions:										
Resource-based										
industries										
research and										
development										