Vote 35

Science and Innovation

Budget summary

			2022/23		2023/24	2024/25
	Current	Transfers and	Payments for			
R million	payments	subsidies	capital assets	Total	Total	Total
MTEF allocation						
Administration	316.4	15.7	3.0	335.1	333.3	348.3
Technology Innovation	76.2	1 707.8	-	1 784.1	1 793.3	1 873.9
International Cooperation and Resources	73.5	76.4	_	149.9	149.5	156.2
Research, Development and Support	56.3	5 048.8	_	5 105.0	5 203.4	5 436.9
Socioeconomic Innovation Partnerships	55.2	1 704.0	_	1 759.2	1 765.1	1 844.6
Total expenditure estimates	577.6	8 552.7	3.0	9 133.3	9 244.6	9 659.8
Executive authority	Minister of Science and	Innovation				

Executive authority Minister of Science and Innovation
Accounting officer Director-General of Science and Innovation
Website www.dst.gov.za

The Estimates of National Expenditure is available at www.treasury.gov.za. Additional tables in Excel format can be found at www.treasury.gov.za and www.vulekamali.gov.za.

Vote purpose

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

Mandate

The Department of Science and Innovation derives its mandate from the 1996 White Paper on Science and Technology, which introduced the concept of the national system of innovation — a set of interacting organisations and policies through which South Africa creates, acquires, diffuses and puts into practice new knowledge to help achieve individual and collective goals. A coordinated and efficient national system of innovation will help the country achieve its national development priorities by promoting change through innovation. This will enable all South Africans to enjoy the economic, sociopolitical and intellectual benefits of science, technology and innovation.

Selected performance indicators

Table 35.1 Performance indicators by programme and related priority

Indicator	Programme	MTSF priority	Audit	ted performa	ance	Estimated performance	ľ	/ITEF targets	i
			2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Number of commercial outputs in designated areas per year	Technology Innovation	Drianita 2. Facus annia	7	11	15	4	5	5	5
Number of technology demonstrations, prototypes, products and services developed per year	Technology Innovation	Priority 2: Economic transformation and job creation	_1	_1	18	10	20	25	30
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 innovation 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	R3.3bn	R300m	R300m	R300m	R300m	R400m	R400m

Table 35.1 Performance indicators by programme and related priority

Indicator	Programme	MTSF priority	Audit	ted performa	ance	Estimated performance	r	VITEF targets	
			2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Number of doctoral students awarded bursaries per year, as reflected in reports from the National Research Foundation and relevant entities	Research, Development and Support		3 380	3 100	3 100	3 200	3 200	3 200	3 200
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	Priority 3: Education, skills and health	9 774	10 800	10 800	10 800	10 800	10 900	10 900
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		4 633	4 500	4 600	4 700	4 700	4 700	4 700
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	42	57	70	70	70	70	70
Number of knowledge products on innovation for inclusive development published per year	Socioeconomic Innovation Partnerships		8	6	5	5	5	5	5

^{1.} No historical data available.

Expenditure overview

Over the medium term, the department will focus on developing human capital, ensuring the effective use of publicly funded intellectual property, implementing the national space strategy, and implementing the national integrated cyberinfrastructure system.

Expenditure is expected to increase at an average annual rate of 2.4 per cent, from R9 billion in 2021/22 to R9.7 billion in 2024/25. Transfers to entities account for an estimated 93.7 per cent (R26.3 billion) of the department's expenditure over the MTEF period. The second-largest cost driver is compensation of employees, spending on which is set to increase at an average annual rate of 1 per cent, from R363.3 million in 2021/22 to R374.5 million in 2024/25.

The department recognises human capital as key to the development of a national system of innovation that is globally competitive and responsive to South Africa's developmental needs. For this purpose, it has allocated R8.5 billion over the MTEF period in the *Human Capital and Science Promotions* subprogramme in the *Research, Development and Support* programme to provide postgraduate bursaries and scholarships; internships; and support for emerging and established researchers, including strategic instruments such as the South African research chairs initiative, and the centres of excellence. To date, the department has awarded 252 research chairs and will continue to support the 14 established centres of excellence that serve as hubs that draw together a range of universities and science councils to tackle challenges in health, food security, human development, energy and biodiversity, among other things.

The department will continue to work towards identifying, protecting, using and commercialising intellectual property and technology. Over the MTEF period, this includes generating a targeted 365 knowledge products (including peer-reviewed scientific articles and applications for or the registration/granting of intellectual property rights); developing and approving 12 science, technology and innovation strategic policy directives; and developing and/or maintaining 9 interventions to improve the delivery of government services or functions. These activities are expected to contribute to spending of R5.5 billion in the *Technology Innovation* programme over the medium term.

The national space strategy is intended to ensure, through activities such as Earth observation, navigation and

meteorological monitoring, that South Africa captures a reasonable share of the global space market. To this end, R642.2 million is allocated over the medium term to the *Space Science* subprogramme in the *Technology Innovation* programme. In addition, as the department seeks to contribute to a reduction in greenhouse gas emissions and air pollution through more diverse and sustainable energy solutions, R598 million in the *Hydrogen and Energy* subprogramme, in the same programme, will be invested in the development of technologies such as hydrogen fuel cells, renewable energy and carbon capture.

The national integrated cyberinfrastructure system is expected to enable the successful and sustainable implementation of national projects such as MeerKAT and the Square Kilometre Array. To this end, R3.7 billion is allocated over the medium term to the *Basic Science and Infrastructure* subprogramme in the *Research, Development and Support* programme for the Council for Scientific and Industrial Research to implement the system. The MeerKAT telescope, for example, is expected to add 20 antennae to its current array of 64 at a projected cost of R800 million over the period ahead.

Expenditure trends and estimates

Table 35.2 Vote expenditure trends and estimates by programme and economic classification

Programmes

- 1. Administration
- 2. Technology Innovation
- 3. International Cooperation and Resources
- 4. Research, Development and Support
- 5. Socioeconomic Innovation Partnerships

Programme						Average:					Average:
					Average	Expen-				Average	Expen-
					growth	diture/				growth	diture/
				Adjusted	rate	Total	Medium	-term expen	diture	rate	Total
_	Aud	lited outcom	е	appropriation	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19	2021/22	2022/23	2023/24	2024/25	2021/22	- 2024/25
Programme 1	379.5	352.1	262.2	334.7	-4.1%	4.1%	335.1	333.3	348.3	1.3%	3.6%
Programme 2	1 149.0	1 236.7	1 379.8	1 705.3	14.1%	17.0%	1 784.1	1 793.3	1 873.9	3.2%	19.3%
Programme 3	145.2	136.0	114.2	144.4	-0.2%	1.7%	149.9	149.5	156.2	2.6%	1.6%
Programme 4	4 520.4	4 578.4	3 731.0	4 995.6	3.4%	55.4%	5 105.0	5 203.4	5 436.9	2.9%	56.0%
Programme 5	1 755.2	1 778.2	1 678.0	1 825.6	1.3%	21.9%	1 759.2	1 765.1	1 844.6	0.3%	19.4%
Total	7 949.3	8 081.4	7 165.3	9 005.6	4.2%	100.0%	9 133.3	9 244.6	9 659.8	2.4%	100.0%
Change to 2021				72.3			5.3	_	-		
Budget estimate											
Economic classifications											
Current payments	602.0	558.7	429.0	569.3	-1.8%	6.7%	577.6	573.1	598.8	1.7%	6.3%
Compensation of employees	358.8	336.7	321.9	363.3	0.4%	4.3%	363.7	358.4	374.5	1.0%	3.9%
Goods and services ¹	243.2	222.1	107.0	206.0	-5.4%	2.4%	213.9	214.7	224.4	2.9%	2.3%
of which:											
Advertising	25.1	13.2	4.3	13.2	-19.3%	0.2%	13.5	13.6	14.2	2.5%	0.1%
Consultants: Business and	16.4	12.4	10.3	21.8	9.9%	0.2%	22.3	22.4	23.4	2.5%	0.2%
advisory services											
Agency and	12.0	9.2	10.2	15.9	9.8%	0.1%	16.3	16.4	17.1	2.5%	0.2%
support/outsourced services											
Property payments	11.8	42.3	13.3	17.1	13.2%	0.3%	14.5	14.5	15.2	-3.9%	0.2%
Travel and subsistence	65.9	61.9	7.3	55.6	-5.5%	0.6%	62.2	62.4	65.2	5.5%	0.7%
Venues and facilities	26.6	17.5	1.5	14.1	-19.2%	0.2%	16.5	16.6	17.3	7.1%	0.2%
Transfers and subsidies1	7 336.9	7 514.8	6 729.7	8 431.0	4.7%	93.2%	8 552.7	8 668.3	9 057.6	2.4%	93.7%
Departmental agencies and	5 003.6	5 165.3	4 721.3	6 520.6	9.2%	66.5%	6 562.3	6 651.6	6 947.0	2.1%	72.0%
accounts											
Higher education institutions	_	_	252.9	-	0.0%	0.8%	_	_	-	0.0%	0.0%
Public corporations and	1 850.4	1 811.7	1 495.8	1 512.3	-6.5%	20.7%	1 583.0	1 604.4	1 679.7	3.6%	17.2%
private enterprises											
Non-profit institutions	481.4	533.6	259.1	398.1	-6.1%	5.2%	407.4	412.3	430.8	2.7%	4.5%
Households	1.5	4.2	0.5	-	-100.0%	0.0%	_	_	-	0.0%	0.0%
Payments for capital assets	10.3	7.8	6.1	5.4	-19.5%	0.1%	3.0	3.1	3.3	-15.0%	0.0%
Machinery and equipment	10.3	7.8	6.1	5.4	-19.5%	0.1%	3.0	3.1	3.3	-15.0%	0.0%
Payments for financial assets	0.1	0.1	0.5	-	-100.0%	0.0%	_	_	_	0.0%	0.0%
Total	7 949.3	8 081.4	7 165.3	9 005.6	4.2%	100.0%	9 133.3	9 244.6	9 659.8	2.4%	100.0%
IULAI	/ 343.3	0 001.4	/ 105.5	3 003.0	4.270	100.0%	J 133.3	J 244.0	3 033.8	2.4%	100

^{1.} Tables with expenditure trends, annual budget, adjusted appropriation and audited outcome are available at www.treasury.gov.za and www.vulekamali.gov.za.

Transfers and subsidies expenditure trends and estimates

Table 35.3 Vote transfers and subsidies trends and estimates

Table 35.3 Vote transfers a	ina sabsiai	es trenus a	ina estim		Average growth	Average: Expen- diture/	Modius	m-term expen	ditura	Average growth	Average: Expen- diture/
	Au	dited outcome		Adjusted appropriation	rate (%)	Total (%)	iviediui	n-term expeni estimate	aiture	rate (%)	Total (%)
R thousand	2018/19	2019/20	2020/21	2021/22		- 2021/22	2022/23	2023/24	2024/25		- 2024/25
Households											
Social benefits											
Current	851	2 739	478	_	-100.0%	-	_	_	-	-	-
Households	851	2 739	478	_	-100.0%	-	-	-	-	-	-
Departmental agencies and accounts											
Departmental agencies (non-busines	-										
Current	3 760 432	4 070 309	3 941 266	4 744 133	8.1%	55.0%	4 870 454	4 885 218	5 101 330	2.4%	56.5%
Various institutions: Institutional	1 231	1 838	315	_	-100.0%	_	_	_	_	_	-
and programme support research		2 000	7.000								
Various institutions: Biofuels research	_	2 000	7 889	_	_	_	_	_	_	_	_
Various institutions: Technology	2 073	2 188	3 646	_	-100.0%	_	_	_	_	_	_
transfer offices: Support of research	2073	2 100	3 040		100.070						
units											
Various institutions:	30 851	31 258	47 080	_	-100.0%	0.4%	_	_	_	_	_
Implementation of bioeconomy											
strategy											
Various institutions: Energy grand	-	_	47 232	43 318	_	0.3%	44 451	44 622	46 626	2.5%	0.5%
challenge research											
Various institutions: Health	72 800	49 020	52 686	-	-100.0%	0.6%	-	-	-	-	-
innovation research											
Various institutions: HIV and AIDS	24 588	27 866	29 205	30 225	7.1%	0.4%	31 019	31 139	32 537	2.5%	0.4%
prevention and treatment											
technologies research			43 776			0.1%					
Various institutions: Hydrogen strategy research	_	_	43 //0	_	_	0.176	_	_	_	_	_
Various institutions: Innovation	_	14 868	125 000	402 405	_	1.8%	519 394	521 389	544 804	10.6%	5.7%
projects research		14 000	123 000	402 403		1.070	313 334	321 303	344 804	10.070	3.770
Various institutions: Space science	13 200	54 400	36 202	63 329	68.7%	0.6%	33 291	33 419	34 920	-18.0%	0.5%
research: Economic competitiveness											
and support package											
National Research Foundation:	9 650	1 623	500	6 599	-11.9%	0.1%	6 765	6 792	7 097	2.5%	0.1%
Research and development in											
indigenous knowledge systems											
Technology Innovation Agency	420 322	440 929	408 825	447 703	2.1%	5.7%	458 370	460 131	480 795	2.4%	5.3%
South African National Space	138 036	143 464	161 196	202 193	13.6%	2.1%	162 439	163 063	170 386	-5.5%	2.0%
Agency Medical Research Council: Social	_	_	33 422	_		0.1%		_	_		_
impact bond	_		33 422	_		0.176				_	_
Various institutions: Emerging	3 400	_	_	_	-100.0%	_	_	_	_	_	_
research areas											
National Research Foundation:	14 793	15 876	2 583	16 670	4.1%	0.2%	17 077	17 143	17 913	2.4%	0.2%
Bilateral cooperation for global											
science development											
Various institutions: Global science:	9 532	18 279	25 949	-	-100.0%	0.2%	-	-	-	-	-
International multilateral											
agreements	F 200				100.00/						
Various institutions: Global science:	5 200	_	6 764	_	-100.0%	_	_	_	_	_	-
African multilateral agreements Academy of Science of South Africa	25 668	26 983	24 840	33 210	9.0%	0.4%	33 030	22 070	35 106	2.2%	0.4%
Various institutions: Astronomy	30 639	32 789	32 469	25 623	-5.8%	0.4%	33 839 41 715	41 876	35 496 43 757	19.5%	0.4%
research and development	30 033	32 103	32 403	23 023	-3.0/0	0.4/0	41 / 13	710/0	73 /3/	13.3/0	U.470
Various institutions: Policy	25 619	27 116	28 266	36 946	13.0%	0.4%	37 944	38 090	39 801	2.5%	0.4%
development on human and social					0	2					2
development dynamics											
National Research Foundation:	851 898	922 337	762 252	1 002 897	5.6%	11.8%	1 006 850	1 010 719	1 056 110	1.7%	11.7%
Human resources development for											
science and engineering											
National Research Foundation:	-	-	23 057	18 607	-	0.1%	19 104	19 178	20 039	2.5%	0.2%
Human resources development for											
science and engineering: Economic											
competitiveness and support											
package National Research Foundation	904 752	943 385	859 469	962 587	2.1%	12.2%	997 408	1 001 295	1 046 051	2.8%	11.5%
Various institutions: Science	58 137	64 273	30 000	91 643	16.4%	0.8%	94 066	94 428	98 669	2.5%	1.1%
awareness, research and initiatives						2.2.0					,
to encourage youth participation in											
science											
National Research Foundation:	530 274	566 305	544 508	588 550	3.5%	7.4%	602 902	605 218	632 398	2.4%	7.0%
South African research chairs											
initiative to develop human											
resources in science											

Table 35.3 Vote transfers and subsidies trends and estimates

Table 55.5 Vote transfers a				Adjusted	Average growth rate	Average: Expen- diture/ Total		-term expend	iture	Average growth rate	Average: Expen- diture/ Total
		dited outcome		appropriation	(%)	(%)		estimate		(%)	(%)
R thousand Various institutions: Strategic science platforms for research and	2018/19 188 883	2019/20 191 335	2020/21 166 154	2021/22 170 171	-3.4%	2.4%	2022/23 241 332	2023/24 242 258	2024/25 253 138	2021/22 · 14.2%	- 2024/25 2.6%
development Various institutions: Economic competitiveness and support package: Local manufacturing	-	33 823	-	-	-	0.1%	-	-	-	-	-
capacity research and technical support Various institutions: Economic	_	39 565	_	_	_	0.1%	_	_	_	-	_
competitiveness and support package: Local systems of innovation for the cold chain technologies project											
Various institutions: Advanced manufacturing technology strategy implementation	269	904	752	-	-100.0%	-	-	-	-	-	-
Various institutions: Innovative research and development	19 106	24 829	30 446	77 158	59.2%	0.5%	49 593	49 784	52 020	-12.3%	0.7%
Human Sciences Research Council Various institutions: Local manufacturing capacity research and technical support	303 733 57 544	324 155 28 689	289 325 75 672	314 394 81 217	1.2% 12.2%	4.1% 0.8%	321 098 86 574	322 332 82 897	336 808 83 550	2.3% 0.9%	3.7% 1.0%
Various institutions: Local systems of innovation for the cold chain technologies project	-	-	-	15 047	-	0.1%	15 453	15 513	16 210	2.5%	0.2%
National Research Foundation: Research information management system	4 000	8 448	6 232	10 750	39.0%	0.1%	-	-	-	-100.0%	-
Human Science Research Council: Develop and monitor science and technology indicators	9 984	12 404	11 252	15 221	15.1%	0.2%	15 557	15 617	16 318	2.3%	0.2%
Various institutions: Environmental innovation	4 250	19 360	24 302	87 670	174.3%	0.5%	34 213	34 345	35 887	-25.8%	0.6%
Capital	1 243 198	1 094 997	780 060	1 776 454	12.6%	16.3%	1 691 825	1 766 390	1 845 718	1.3%	20.4%
Various institutions: Hydrogen strategy (capital) Various institutions: Infrastructure	- 533 991	408 023	48 693 253 712	- 758 280	12.4%	0.2% 6.5%	- 861 609	- 899 583	939 983	7.4%	10.0%
projects for research and development											
National Research Foundation: Square Kilometre Array: Capital contribution to research Households	709 207	686 974	477 655	1 018 174	12.8%	9.6%	830 216	866 807	905 735	-3.8%	10.4%
Other transfers to households											
Current	650	1 510	50	_	-100.0%	-	_	_	_	-	-
Households	650	150	_	-	-100.0%	-	-	_	_	-	-
Various institutions: Policy development on human and social development dynamics	_	280	-	_	_	-	_	=	-	-	-
National Research Foundation: Human resources development for science and engineering	_	1 080	-	-	_	-	-	_	-	-	-
Various institutions: Strategic science platforms for research and development	I	-	50	-	_	_	-	-	-	ı	I
Public corporations and private enter	prises										
Other transfers to public corporation			_								
Current	456 371	456 766	445 033	296 753	-13.4%	5.5%	299 002	304 105	321 044	2.7%	3.5%
Various institutions: Technology transfer offices: Support of research units	7 652	8 353	5 059	-	-100.0%	0.1%	-	_	-	_	
Various institutions: Implementation of bioeconomy strategy	6 000	7 100	1 000	-	-100.0%	_	-	-	-	-	-
Various institutions: Energy grand challenge research	10 153	3 550 25 884	_	_	-100.0% -100.0%	0.19/	-	_	_	_	_
Various institutions: Hydrogen strategy research Various institutions: Hydrogen	4 860 23 999	13 086	-	-	-100.0%	0.1%	_	_	-	-	_
strategy (capital) Various institutions: Innovation	4 916	450	3 383	_	-100.0%	_	-	_	-	-	-
projects research Various institutions: Space science research: Economic competitiveness and support package	-	5 000	22 600	-	-	0.1%	-	-	-	-	-
and support package											

Table 35.3 Vote transfers and subsidies trends and estimates

D thousand				Adjusted	Average growth rate	Average: Expen- diture/ Total	Mediu	m-term expend	liture	Average growth rate	Average: Expen- diture/ Total
_		dited outcome		appropriation	(%)	(%)		estimate		(%)	(%)
R thousand	2018/19	2019/20	2020/21	2021/22		- 2021/22	2022/23	2023/24	2024/25	2021/22	- 2024/25
National Research Foundation:	1 500	3 200	1 000	-	-100.0%	-	_	-	-	-	-
Research and development in indigenous knowledge systems											
Various institutions: Emerging	67 800	80 700	80 500	108 989	17.1%	1.1%	119 750	120 210	125 609	4.8%	1.4%
research areas	07 800	80 700	80 300	108 383	17.170	1.1/0	119 / 30	120 210	123 003	4.070	1.4/0
Various institutions: Global science:	4 400	3 636	393	_	-100.0%	_	_	_	_	_	_
International multilateral agreements	4 400	3 030	333		-100.0%						
Various institutions: Global science:	4 002	4 380	2 785	_	-100.0%	_	_	_	_	_	_
African multilateral agreements											
National Research Foundation:	-	41 234	42 000	-	-	0.3%	_	_	-	-	-
Human resources development for science and engineering											
National Research Foundation:	41 040	22 000	-	-	-100.0%	0.2%	_	_	-	-	-
Human resources development for science and engineering: Economic competitiveness and support											
package											
Various institutions: Strategic science platforms for research and development	6 355	14 900	20 100	-	-100.0%	0.1%	-	_	_	-	-
Various institutions: Science awareness	2 356	_	-	-	-100.0%	-	_	-	-	-	-
Various institutions: Economic	_	46 178	_	_	_	0.2%	_	_	_	_	_
competitiveness and support package: Local manufacturing capacity research and technical											
support											
Various institutions: Advanced manufacturing technology strategy implementation	41 245	58 356	56 737	45 214	3.1%	0.7%	36 000	38 000	40 000	-4.0%	0.5%
Various institutions: Innovative	-	1 000	_	_	-	-	_	_	-	_	-
research and development											
Various institutions: Local	48 320	-	40 574	-	-100.0%	0.3%	-	-	-	-	-
manufacturing capacity research and technical support											
Council for Scientific and Industrial Research: Mining research and development	_	21 139	43 863	63 506	-	0.4%	65 073	65 323	68 257	2.4%	0.8%
Various institutions: Local systems of innovation for the cold chain	31 600	6 793	29 495	-	-100.0%	0.2%	-	-	-	_	-
technologies project Various institutions: Resource- based industries research and	107 391	52 852	45 884	37 223	-29.8%	0.8%	35 250	37 478	42 149	4.2%	0.4%
development	46.545	0.000	45.745		400.00/	0.40/					
Various institutions: Environmental innovation	16 545	9 000	15 745	_	-100.0%	0.1%	_	_	-	_	-
Various institutions: ICT	26 237	27 975	33 915	41 821	16.8%	0.4%	42 929	43 094	45 029	2.5%	0.5%
Capital	416 992	376 282	142 555	237 121	-17.2%	3.9%	281 770	294 188	307 400	9.0%	3.2%
Council for Scientific and Industrial Research: Cyberinfrastructure	236 339	251 686	60 218	237 121	0.1%	2.6%	281 770	294 188	307 400	9.0%	3.2%
research and development Various institutions: Infrastructure projects for research and	180 653	124 596	82 337	-	-100.0%	1.3%	-	-	-	-	-
development											
Higher education institutions											
Current	-	-	131 948	_	-	0.4%	-	-	-	-	-
Various institutions: Institutional and programme support research	-	_	9 384	-	-	-	_	-	-	-	-
Various institutions: Technology transfer offices: Support of research units	-	-	27 412	-	-	0.1%	-	-	-	-	-
Various institutions: Implementation of the bioeconomy strategy	-	-	600	-	-	-	-	-	-	-	-
Various institutions: Energy grand challenge research	-	-	-	-	-	-	-	-	-	-	-
Various institutions: Health	-	_	-	-	-	-	-	-	-	-	-
innovation research Various institutions: Hydrogen strategy research	-	-	7 966	_	-	-	-	-	-	-	-
Various institutions: Innovation projects research	-	_	-	-	-	-	-	-	-	-	-

Table 35.3 Vote transfers and subsidies trends and estimates

Table 35.3 Vote transfers a					Average	Average: Expen-				Average	Average: Expen-
				Adjusted	growth rate	diture/ Total	Medium	ı-term expend	iture	growth rate	diture/ Total
R thousand	Aud 2018/19	ited outcome 2019/20	2020/21	appropriation 2021/22	(%) 2018/19 -	(%)	2022/23	estimate	2024/25	(%) 2021/22 -	(%)
Various institutions: Space science	2016/19	2019/20	13 657	-	4.7%	-	2022/23	2023/24	2024/25	2.4%	
research: Economic											
competitiveness and support package											
National Research Foundation:	_	_	23 615	_	_	0.1%	_	_	_	_	_
Research and development in											
indigenous knowledge systems Various institutions: Emerging			18 100		_	0.1%					
research areas	_	_	18 100	_	_	0.1%	_	_	_	_	_
National Research Foundation: Bilateral cooperation for global science development	-	-	4 349	-	-	-	-	-	-	-	_
Various institutions: Global science: International multilateral	-	-	6 356	-	-	-	-	-	-	-	-
agreements Various institutions: Global science:	_	_	602	_	_	_	_	_	_	_	_
African multilateral agreements			002	_					_		_
Various institutions: Policy development on human and social development dynamics	-	_	2 139	-	-	-	_	_	-	-	-
National Research Foundation: Human resources development for science and engineering	-	-	2 000	-	-	-	-	-	-	-	-
Various institutions: Science	-	-	3 498	_	-	-	_	-	-	-	_
awareness, research and initiatives to encourage youth participation in science											
Various institutions: Strategic science platforms for research and development	-	_	12 210	-	-	-	-	_	-	-	_
Various institutions: Astronomy research and development	_	-	60	_	-	-	-	-	-	-	-
Various institutions: Innovative	-	-	-	_	-	-	-	-	-	-	-
research and development Capital	_	_	121 000	_	_	0.4%	_	_	_	_	_
Various institutions: Hydrogen	_	_	20 613	_	_	0.1%	_	_	_	_	_
strategy (capital) Various institutions: Infrastructure projects for research and		-	100 387	-	-	0.3%		-	-	-	-
development Non-profit institutions											
Current	327 324	316 900	110 012	316 885	-1.1%	3.6%	323 268	324 510	339 084	2.3%	3.8%
Various institutions: Institutional	11 567	18 484	5 896	15 264	9.7%	0.2%	15 665	15 726	16 432	2.5%	0.2%
and programme support research	7.245	F. C.40		0.430	0.00/	0.40/	0.265	0.404	0.022	2.50/	0.40/
Various institutions: Biofuels research	7 245	5 640	_	9 130	8.0%	0.1%	9 365	9 401	9 823	2.5%	0.1%
Various institutions: Implementation of the bioeconomy strategy	891	2 200	7 895	43 431	265.3%	0.2%	44 512	44 683	46 690	2.4%	0.5%
Various institutions: Energy grand challenge research	26 895	37 396	-	_	-100.0%	0.2%	-	-	-	-	-
Various institutions: Health innovation research	2 597	50	-	87 511	223.0%	0.3%	54 986	55 197	57 676	-13.0%	0.7%
Various institutions: Hydrogen strategy research	35 347	16 574	-	42 580	6.4%	0.3%	43 630	43 797	45 764	2.4%	0.5%
Various institutions: Innovation projects research	4 501	4 135	31 946	_	-100.0%	0.1%	-	-	-	-	_
International Centre for Genetic Engineering and Biotechnology	31 249	40 815	14 981	16 135	-19.8%	0.3%	16 562	16 626	17 373	2.5%	0.2%
Various institutions: Space science research: Economic competitiveness and support	5 299	10 000	-	-	-100.0%	0.1%	-	_	-	-	-
package Various institutions: Technology transfer offices: Support for	37 434	27 369	1 630	45 000	6.3%	0.4%	44 073	44 242	46 229	0.9%	0.5%
research units National Research Foundation:	16 921	9 100	900	_	-100.0%	0.1%	_	_	_	_	_
Research and development in indigenous knowledge systems							35.435	25.252	35.31		0.000
Medical Research Council: Social impact bond	- 25 202	21 000	_	_	100.0%	0.39/	35 125	35 260	36 844	_	0.3%
Various institutions: Emerging research areas National Research Foundation:	25 202	31 900	3 783	-	-100.0%	0.2%	_	_	_	_	_
Bilateral cooperation for global science development			3 703	_					-		

Table 35.3 Vote transfers and subsidies trends and estimates

				Adjusted	Average growth rate	Average: Expen- diture/ Total	Medium	n-term expend	iture	Average growth rate	Average: Expen- diture/ Total
_	Auc	dited outcome		appropriation	(%)	(%)		estimate		(%)	(%)
R thousand	2018/19	2019/20	2020/21	2021/22	2018/19	- 2021/22	2022/23	2023/24	2024/25	2021/22	- 2024/25
Various institutions: Global science: International multilateral agreements	28 784	21 162	5 136	47 341	18.0%	0.3%	48 581	48 768	50 958	2.5%	0.6%
Various institutions: Global science: African multilateral agreements	186	3 652	200	10 493	283.5%	-	10 769	10 810	11 295	2.5%	0.1%
Various institutions: Policy development on human and social development dynamics	-	1 500	1 582	_	-	-	-	_	-	-	-
National Research Foundation: Human resources development for science and engineering	4 568	11 157	1 800	-	-100.0%	0.1%	-	-	-	-	_
Various institutions: Science awareness, research and initiatives to encourage youth participation in science	16 760	17 020	-	_	-100.0%	0.1%	-	-	-	_	_
National Research Foundation: Square Kilometre Array: Capital contribution to research	205	-	-	-	-100.0%	-	-	-	-	-	_
Various institutions: Strategic science platforms for research and development	11 051	15 930	1 000	_	-100.0%	0.1%	-	_	-	-	_
Various institutions: Astronomy research and development	-	-	4 985	-	-	-	-	-	-	_	_
Various institutions: Policy development on basic science development and support	1 780	-	-	_	-100.0%	-	-	-	-	-	-
Various institutions: Economic competitiveness and support package: Local systems of innovation for the cold chain	-	17 524	-	-	-	0.1%	-	-	-	-	_
technologies project Various institutions: Advanced manufacturing technology strategy implementation	400	100	-	-	-100.0%	-	-	-	-	-	_
Various institutions: Innovative research and development	6 734	13 076	3 954	-	-100.0%	0.1%	-	-	-	-	_
Various institutions: Local systems of innovation for the cold chain technologies project	39 991	-	17 424	_	-100.0%	0.2%	-	_	-	-	_
Various institutions: Resource- based industries research and development	800	800		_	-100.0%	-	-	-	-	-	-
Various institutions: Environmental innovation	10 917	1 042	2 900	_	-100.0%	_	-	-	-	_	_
Various institutions: ICT	-	17 274	4 000	_	-	0.1%	-	-	-	-	-
Capital	154 043	216 690	149 105	81 199	-19.2%	2.0%	84 103	87 810	91 753	4.2%	1.0%
Various institutions: Hydrogen strategy (capital)	46 972	61 859	-	81 199	20.0%	0.6%	84 103	87 810	91 753	4.2%	1.0%
Various institutions: Infrastructure projects for research and development	107 071	154 831	149 105	-	-100.0%	1.4%	-	-	-	-	-
Public corporations and private enter	prises						·				
Other transfers to private enterprises											
Current	13 847	12 796	14 614	-	-100.0%	0.1%		-	_	-	-
Various institutions: Institutional and programme support research	1 415	2.625	4 424	-	-100.0%	_	_	_	-	_	_
Various institutions: Technology transfer offices: Support of research units	605	2 625	4 421	-	-100.0%		-	_	-		_
Various institutions: Implementation of bioeconomy strategy	_	1 069	-	_	_	-	_	_	-	-	_
Various institutions: Health innovation research	300	2 161	-	-	-100.0%	-	=	-	-	-	_
Various institutions: Innovation projects research National Research Foundation:	-	1 200	-	-	_	_	-	-	-	-	_
Research and development in indigenous knowledge systems		1 200									

Table 35.3 Vote transfers and subsidies trends and estimates

	Au	dited outcome	e	Adjusted appropriation	Average growth rate (%)	Average: Expen- diture/ Total (%)	Mediun	n-term expend estimate	liture	Average growth rate (%)	Average: Expen- diture/ Total (%)
R thousand	2018/19	2019/20	2020/21	2021/22	2018/19	- 2021/22	2022/23	2023/24	2024/25	2021/22	- 2024/25
National Research Foundation: Bilateral cooperation for global science development	-	-	-	-	-	-	-	-	-	-	-
Various institutions: Global science: International multilateral agreements	378	669	3 264	-	-100.0%	-	-	-	-	-	-
Various institutions: Strategic science platforms for research and development	-	-	2 000	-	-	-	-	-	-	-	-
Various institutions: Economic competitiveness and support package: Local systems of innovation for the cold chain technologies project	-	4 900	-	-	-	_	-	-	-	-	-
Various institutions: Advanced manufacturing technology strategy implementation	10 748	172	87	-	-100.0%	-	_	-	-	-	-
Various institutions: Local manufacturing capacity research and technical support	-	_	-	-	-	-	-	-	-	-	-
Various institutions: Local systems of innovation for the cold chain technologies project	401	_	4 842	-	-100.0%	-	-	-	-	-	-
Public corporations and private enter	rprises										
Subsidies on products and production	n (pc)										
Current	963 164	965 823	893 581	978 449	0.5%	12.7%	1 002 269	1 006 119	1 051 303	2.4%	11.6%
Council for Scientific and Industrial Research	963 164	965 823	893 581	978 449	0.5%	12.7%	1 002 269	1 006 119	1 051 303	2.4%	11.6%
Total	7 336 872	7 514 812	6 729 702	8 430 994	4.7%	100.0%	8 552 691	8 668 340	9 057 632	2.4%	100.0%

Table 35.4 Vote personnel numbers and cost by salary level and programme¹

- Programmes

 1. Administration
 2. Technology Innovation
 3. International Cooperation and Resources
 4. Research, Development and Support
 5. Socioeconomic Innovation Partnerships

3. 30Clueculluli		ion Partnersnips																-	
	Num	ber of posts																	
	esti	mated for																	
	31 N	1arch 2022			Num	ber and cos	t ² of per	sonnel	posts filled,	/planned	for on	funded esta	blishme	nt					Average:
	Number	Number																Average	Salary
	of	of posts																growth	level/
	funded	additional																rate	Total
	posts	to the		Actual		Revise	ed estima	ate			Med	ium-term ex	penditu	re estin	nate			(%)	(%)
	-	establishment	20	020/21		2	021/22		2	022/23		2	023/24		2	024/25		2021/22 -	2024/25
				-	Unit Unit Unit Unit Unit														
Science and In	novation		Number	Cost	cost						cost								
Salary level	497	6	386	321.9	0.8	444	363.3	0.8	435	363.7	0.8	427	358.4	0.8	427	374.5	0.9	-1.3%	100.0%
1-6	71	2	51	12.3	0.2	66	17.4	0.3	65	17.5	0.3	63	16.2	0.3	63	16.9	0.3	-1.5%	14.8%
7 – 10	145	3	110	50.7	0.5	131	60.9	0.5	125	59.3	0.5	123	57.0	0.5	123	59.6	0.5	-2.2%	28.9%
11 – 12	154	_	128	123.8	1.0	137	129.0	0.9	136	130.4	1.0	133	126.9	1.0	133	132.4	1.0	-1.1%	31.1%
13 – 16	125	1	95	131.5	1.4	110	156.0	1.4	109	156.5	1.4	108	158.4	1.5	108	165.5	1.5	-0.5%	25.1%
Other	2	_	2	3.6	1.8	-	_	_	_	_	_	-	_	_	-	-	-	-	_
Programme	497	6	386	321.9	0.8	444	363.3	0.8	435	363.7	0.8	427	358.4	0.8	427	374.5	0.9	-1.3%	100.0%
Programme 1	249	6	195	151.6	0.8	233	172.5	0.7	230	172.7	0.8	227	170.2	0.8	227	177.8	0.8	-0.8%	52.9%
Programme 2	62	_	47	40.3	0.9	65	52.4	0.8	64	52.5	0.8	63	51.7	0.8	62	54.0	0.9	-1.1%	14.6%
Programme 3	69	_	53	47.3	0.9	55	54.0	1.0	53	54.1	1.0	50	53.3	1.1	50	55.7	1.1	-2.9%	12.0%
Programme 4	55	_	45	40.6	0.9	44	39.4	0.9	43	39.5	0.9	42	38.9	0.9	42	40.6	1.0	-1.8%	9.9%
Programme 5	62	_	46	42.2	0.9	47	45.0	0.9	46	45.0	1.0	45	44.4	1.0	45	46.4	1.0	-1.7%	10.6%

^{1.} Data has been provided by the department and may not necessarily reconcile with official government personnel data.

^{2.} Rand million.

Departmental receipts

Table 35.5 Departmental receipts by economic classification

	Audited outcome 2018/19 2019/20 2020/21			Adjusted estimate	Revised estimate	Average growth rate (%)	th item/ te Total Medium-term receipts			•	Average growth rate (%)	Average: Receipt item/ Total (%)
R thousand	2018/19	2019/20	2020/21	2021/2		2018/19	- 2021/22	2022/23	2023/24	2024/25	•	- 2024/25
Departmental receipts	32 749	19 416	2 241	897	897	-69.9%	100.0%	633	683	733	-6.5%	100.0%
Sales of goods and services produced by department	64	67	69	60	60	-2.1%	0.5%	60	60	60	-	8.1%
Other sales of which:	64	67	69	60	60	-2.1%	0.5%	60	60	60	-	8.1%
Services rendered: Commission on insurance	64	67	69	60	60	-2.1%	0.5%	60	60	60	1	8.1%
Sales of scrap, waste, arms and other used current goods of which:	-	2	2	5	5	-	_	3	3	3	-15.7%	0.5%
Sales: Scrap, waste and other goods	-	2	2	5	5	ı	_	3	3	3	-15.7%	0.5%
Interest, dividends and rent on land	27	13	13	32	32	5.8%	0.2%	20	20	20	-14.5%	3.1%
Interest	27	13	13	32	32	5.8%	0.2%	20	20	20	-14.5%	3.1%
Sales of capital assets	217	-	-	250	250	4.8%	0.8%	-	-	-	-100.0%	8.5%
Transactions in financial assets and liabilities	32 441	19 334	2 157	550	550	-74.3%	98.5%	550	600	650	5.7%	79.8%
Total	32 749	19 416	2 241	897	897	-69.9%	100.0%	633	683	733	-6.5%	100.0%

Programme 1: Administration

Programme purpose

Provide strategic leadership, management and support services to the department.

Expenditure trends and estimates

Table 35.6 Administration expenditure trends and estimates by subprogramme and economic classification

						_					Average:
					Average	Expen-				Average	Expen-
					growth	diture/				growth	diture/
				Adjusted	rate	Total	Medium	-term expen	nditure	rate	Total
=		lited outcor	_	appropriation	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22		- 2021/22	2022/23	2023/24	2024/25	2021/22	
Ministry	8.9	2.9	4.9	5.6	-14.5%	1.7%	5.6	5.6	5.8	1.2%	1.7%
Institutional Planning and Support	201.4	170.1	113.2	170.3	-5.4%	49.3%	172.5	171.5	179.2	1.7%	51.3%
Corporate Services	167.0	144.2	134.9	153.3	-2.8%	45.1%	151.3	150.5	157.3	0.9%	45.3%
Office Accommodation	2.2	34.8	9.2	5.6	37.1%	3.9%	5.7	5.7	6.0	2.5%	1.7%
Total	379.5	352.1	262.2	334.7	-4.1%	100.0%	335.1	333.3	348.3	1.3%	100.0%
Change to 2021				6.5			2.5	_	-		
Budget estimate											
Economic classification											
Current payments	354.6	321.5	239.9	314.1	-4.0%	92.6%	316.4	314.4	328.5	1.5%	94.2%
Compensation of employees	179.7	161.4	151.6	172.5	-1.4%	50.1%	172.7	170.2	177.8	1.0%	51.3%
Goods and services	174.8	160.1	88.3	141.6	-6.8%	42.5%	143.7	144.2	150.7	2.1%	42.9%
of which:											
Advertising	23.6	11.4	4.3	12.0	-20.2%	3.9%	12.3	12.3	12.9	2.5%	3.7%
Consultants: Business and advisory	7.3	9.0	5.2	15.5	28.4%	2.8%	15.9	15.9	16.7	2.5%	4.7%
services											
Agency and support/outsourced	7.7	7.2	7.8	7.1	-2.8%	2.2%	7.3	7.3	7.6	2.5%	2.2%
services											
Property payments	11.6	42.3	13.3	13.1	4.2%	6.1%	13.5	13.5	14.1	2.5%	4.0%
Travel and subsistence	33.8	33.7	4.5	35.9	2.0%	8.1%	36.8	36.9	38.6	2.5%	11.0%
Operating payments	6.2	4.7	3.2	6.7	2.8%	1.6%	6.9	6.9	7.2	2.5%	2.1%
Transfers and subsidies	14.6	22.7	15.8	15.3	1.5%	5.1%	15.7	15.7	16.4	2.5%	4.7%
Departmental agencies and	1.2	1.8	0.3	_	-100.0%	0.3%	_	_	_	_	_
accounts											
Higher education institutions	_	_	9.4	_	_	0.7%	_	_	_	_	_
Public corporations and private	1.4	_	_	_	-100.0%	0.1%	_	_	_	_	_
enterprises						2.270					

Table 35.6 Administration expenditure trends and estimates by subprogramme and economic classification

Economic classification					Average	Average: Expen-				Average	Average: Expen-
					growth	diture/				growth	diture/
				Adjusted	rate	Total	Modium	n-term exper	aditura	rate	Total
	Διισ	dited outcor	ma	appropriation	(%)	(%)	ivieululi	estimate	iuiture	(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22		- 2021/22	2022/23	2023/24	2024/25	2021/22	
Non-profit institutions	11.6	18.5	5.9	15.3	9.7%	3.9%	15.7	15.7	16.4	2.5%	4.7%
Households	0.4	2.4	0.2	-	-100.0%	0.2%	-	_	-		
Payments for capital assets	10.2	7.8	6.1	5.4	-19.4%	2.2%	3.0	3.1	3.3	-15.0%	1.1%
Machinery and equipment	10.2	7.8	6.1	5.4	-19.4%	2.2%	3.0	3.1	3.3	-15.0%	1.1%
Payments for financial assets	0.1	0.1	0.5	-	-100.0%	0.1%	-	_	-	_	
Total	379.5	352.1	262.2	334.7	-4.1%	100.0%	335.1	333.3	348.3	1.3%	100.0%
Proportion of total programme	4.8%	4.4%	3.7%	3.7%	_	_	3.7%	3.6%	3.6%	_	
expenditure to vote expenditure		,.	317 70	317,0			•17,0	3.0,0	5.075		
Details of transfers and subsidies											
Households											
Social benefits											
Current	0.4	2.4	0.2	_	-100.0%	0.2%	-		-	-	-
Households	0.4	2.4	0.2	_	-100.0%	0.2%	-		-	-	-
Households											
Other transfers to households											
Current	_	-	-	-	-	-	-	-	-	-	-
Households	_	_	_	_	-	_	_		-	-	
Departmental agencies and account											
Departmental agencies (non-busine	•										
Current	1.2	1.8	0.3	_	-100.0%	0.3%	-	_	-	-	-
Various institutions: Institutional	1.2	1.8	0.3	_	-100.0%	0.3%	_	_	-	-	-
and programme support research											
Public corporations and private enter	erprises										
Private enterprises Other transfers to private enterprise											
Current	1.4	_	_	_	-100.0%	0.1%	_	_	_	_	_
Various institutions: Institutional	1.4				-100.0%	0.1%					
and programme support research	1.4		_	_	-100.070	0.176			_	_	
Non-profit institutions											
Current	11.6	18.5	5.9	15.3	9.7%	3.9%	15.7	15.7	16.4	2.5%	4.7%
Various institutions: Institutional	11.6	18.5	5.9	15.3	9.7%	3.9%	15.7	15.7	16.4	2.5%	4.7%
and programme support research	11.0	10.3	5.5	13.3	3.770	3.570	15.7	13.7	10.4	2.570	7.770
Higher education institutions											
Current	_	_	9.4	_	_	0.7%	_	_	_	_	_
Various institutions: Institutional	_	_	9.4	_	_	0.7%	_	_	_	_	_
and programme support research			5.4			3.770					

Personnel information

Table 35.7 Administration personnel numbers and cost by salary level¹

	Numb	er of posts							-										
	estir	nated for																	
	31 M	arch 2022			Nur	nber and co	ost ² of p	ersonn	el posts fil	ed/plan	ned fo	r on funde	d establi	ishmer	nt				Average:
-	Number	Number																Average	Salary
	of	of posts																growth	level/
	funded	additional																rate	Total
	posts	to the	Α	ctual		Revise	ed estim	ate			Medi	um-term e	xpenditu	ıre esti	imate			(%)	(%)
		establishment	20	20/21		20	021/22		2	022/23		2	023/24		2	024/25		2021/22	2024/25
		•			Unit			Unit			Unit			Unit			Unit		
Administ	tration		Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost		
Salary le	vel 249	6	195	151.6	0.8	233	172.5	0.7	230	172.7	0.8	227	170.2	0.8	227	177.8	0.8	-0.8%	100.0%
1-6	51	2	36	8.3	0.2	49	12.5	0.3	49	12.8	0.3	49	12.3	0.3	49	12.8	0.3	-	21.4%
7 – 10	84	3	63	27.4	0.4	82	36.4	0.4	80	36.3	0.5	79	35.2	0.4	79	36.9	0.5	-1.1%	35.0%
11 – 12	62	-	52	51.0	1.0	55	52.7	1.0	55	53.6	1.0	53	51.5	1.0	53	53.7	1.0	-1.3%	23.4%
13 – 16	50	1	42	61.3	1.5	47	70.9	1.5	46	70.0	1.5	46	71.2	1.5	46	74.4	1.6	-0.7%	20.2%
Other	2	_	2	3.6	1.8	-	-	-	_	-	_	_	-	-	-	-	-	-	_

^{1.} Data has been provided by the department and may not necessarily reconcile with official government personnel data.

Programme 2: Technology Innovation

Programme purpose

Enable research and development in space science and technology, energy security and the bioeconomy, and in the emerging and converging areas of nanotechnology, robotics, photonics and indigenous knowledge systems, to promote the realisation of commercial products, processes and services. Promote the protection and use of intellectual property, technology transfer and technology commercialisation through the implementation of enabling policies and interventions along the entire innovation value chain.

^{2.} Rand million.

Objectives

- Facilitate and make strategic investments in space science and technology, energy, the bioeconomy, nanotechnology, robotics, photonics, indigenous knowledge systems, intellectual property management, technology transfer and technology commercialisation by the end of 2024/25 by:
 - funding and/or maintaining 59 instruments to support the use of knowledge
 - generating 365 knowledge products (including published peer-reviewed scientific articles and the filing of applications for or the registration/granting of intellectual property rights)
 - developing and approving 12 science, technology and innovation strategic policy directives to enhance understanding and analyses that support the implementation of relevant interventions
 - developing and/or maintaining 9 decision support interventions to improve the delivery of government services or functions
 - providing recommendations for all permit applications for genetically modified organisms to support government decision-making.
- Oversee, monitor and regulate key policy initiatives in the strategic areas of space science and technology, energy, bio-innovation, nanotechnology, robotics and photonics by the end of 2024/25 by overseeing 620 new disclosures reported by publicly funded institutions.

Subprogrammes

- Space Science supports the creation of an environment conducive to the implementation of the national space strategy and the South African Earth observation strategy, and one that addresses the development of innovative applications and human capital to respond to national priorities and support socioeconomic development.
- Hydrogen and Energy supports a reduction in greenhouse gas emissions and air pollution while contributing
 to a more diverse and sustainable energy mix by enabling the widespread commercialisation of battery, fuel
 cell, renewable and net-zero carbon technologies. The implementation of the energy research development
 and innovation strategies also supports the penetration of clean and alternative energy technologies –
 through research, development and validation efforts to be competitive with current technologies in terms
 of cost and performance. It also encourages the fostering of strategic partnerships between the public and
 private sectors to reduce institutional and market barriers to the commercialisation of these technologies.
- Bio-innovation leads the implementation of the national bioeconomy strategy approved by Cabinet in 2013.
 This aids projects, programmes and initiatives in support of bio-innovation in agriculture, health, industry, the environment and indigenous knowledge systems with the goal of growing the South African bioeconomy.
- Innovation Priorities and Instruments supports and strengthens the innovation policy package aimed at creating and sustaining an enabling environment for innovation, technology and development, and the commercialisation of publicly funded research and development initiatives.
- National Intellectual Property Management Office provides for the more effective use of intellectual property that emanates from publicly financed research and development.
- Office of the Deputy Director-General: Technology Innovation provides management and administrative support to the programme and the office of the deputy director-general.

Expenditure trends and estimates

Table 35.8 Technology Innovation expenditure trends and estimates by subprogramme and economic classification

Table 35.8 Technology Innov	ation exp	enditure [·]	trends ar	nd estimates b	y subpro		and econ	omic class	sification		
Subprogramme					Average growth	Average: Expen- diture/				Average growth	Average: Expen- diture/
				Adjusted	rate	Total	Medium	-term expe	nditure	rate	Total
		lited outcor		appropriation	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22		- 2021/22	2022/23	2023/24	2024/25		- 2024/25
Space Science	170.1	225.2	241.7	280.2	18.1%	16.8%	210.5	211.1	220.6	-7.7%	12.9%
Hydrogen and Energy	164.8	176.9	184.5	188.3	4.5%	13.1%	193.7	197.7	206.6	3.1%	11.0%
Bio-innovation	215.3	194.9 578.1	227.0	204.1 971.2	-1.8%	15.4% 50.3%	209.3	209.9	219.3	2.4%	11.8%
Innovation Priorities and Instruments	531.4		671.9		22.3%		1 109.7	1 113.9	1 163.9	6.2%	60.9%
National Intellectual Property Management Office	62.1	55.2	51.0	56.8	-2.9%	4.1%	56.0	56.0	58.5	1.0%	3.2%
Office of the Deputy Director- General: Technology Innovation	5.2	6.4	3.6	4.8	-3.3%	0.4%	4.8	4.8	5.0	1.6%	0.3%
Total	1 149.0	1 236.7	1 379.8	1 705.3	14.1%	100.0%	1 784.1	1 793.3	1 873.9	3.2%	100.0%
Change to 2021				(74.9)			0.8	_	-		
Budget estimate											
Economic classification											
Current payments	65.6	67.4	47.2	75.5	4.8%	4.7%	76.2	75.5	78.9	1.5%	4.3%
Compensation of employees	45.4	43.8	40.3	52.4	4.9%	3.3%	52.5	51.7	54.0	1.0%	2.9%
Goods and services of which:	20.1	23.6	6.9	23.2	4.8%	1.3%	23.8	23.8	24.9	2.5%	1.3%
Communication	0.7	0.9	1.1	1.1	14.6%	0.1%	1.1	1.1	1.2	2.5%	0.1%
Consultants: Business and advisory services	5.2	2.5	3.5	1.8	-29.3%	0.2%	1.9	1.9	2.0	2.5%	0.1%
Agency and support/outsourced services	0.8	0.7	1.5	6.8	104.7%	0.2%	7.0	7.0	7.4	2.5%	0.4%
Entertainment	0.0	0.0	_	3.5	736.3%	0.1%	3.6	3.6	3.8	2.5%	0.2%
Travel and subsistence	10.6	9.4	0.6	5.4	-20.1%	0.5%	5.5	5.6	5.8	2.5%	0.3%
Venues and facilities	1.1	6.4	0.1	2.6	31.2%	0.2%	2.6	2.6	2.7	2.5%	0.1%
Transfers and subsidies	1 083.4	1 169.2	1 332.6	1 629.7	14.6%	95.3%	1 707.8	1 717.8	1 794.9	3.3%	95.7%
Departmental agencies and accounts	714.9	767.6	1 045.4	1 195.8	18.7%	68.1%	1 255.7	1 260.6	1 317.2	3.3%	70.3%
Higher education institutions	_	-	112.0	-	-	2.0%	-	-	-	-	-
Public corporations and private	127.8	154.4	118.0	109.0	-5.2%	9.3%	119.8	120.2	125.6	4.8%	6.6%
enterprises											
Non-profit institutions	240.6	247.0	57.4	325.0	10.5%	15.9%	332.4	337.0	352.2	2.7%	18.8%
Households	0.1	0.2	-	_	-100.0%	-	-	_	-	_	-
Payments for financial assets	0.0	0.0	-	_	-100.0%	-	-	_	-	_	-
Total	1 149.0	1 236.7	1 379.8	1 705.3	14.1%	100.0%	1 784.1	1 793.3	1 873.9	3.2%	100.0%
Proportion of total programme	14.5%	15.3%	19.3%	18.9%	-	-	19.5%	19.4%	19.4%	-	-
expenditure to vote expenditure											
Details of transfers and subsidies											
Households											
Social benefits											
Current	0.1	0.1	-	_	-100.0%	-	-		-	_	-
Households	0.1	0.1	_	_	-100.0%	-	-		-	_	_
Households											
Other transfers to households											
Current	_	0.2	_		-	-	-		-	_	-
Households	_	0.2	_		_	-	-		_		_
Departmental agencies and accounts											
Departmental agencies (non-busines Current		767.6	006.7	1 105 9	10 70/	67.20/	1 255 7	1 200 0	1 217 2	2 20/	70.29/
Various institutions: Biofuels	714.9	767.6 2.0	996.7 7.9	1 195.8	18.7%	67.2% 0.2%	1 255.7	1 260.6	1 317.2	3.3%	70.3%
research	_	2.0	7.9	-	_	0.2%	_	_	-		_
Various institutions: Technology transfer offices: Support of research	2.1	2.2	3.6	-	-100.0%	0.1%	-	-	-	-	-
units Various institutions: Implementation	30.9	31.3	47.1	-	-100.0%	2.0%	-	-	-	_	_
of bioeconomy strategy Various institutions: Energy grand	_	_	47.2	43.3	_	1.7%	44.5	44.6	46.6	2.5%	2.5%
challenge research Various institutions: Health	72.8	49.0	52.7	=	-100.0%	3.2%	_	_	_	_	
innovation research	72.0	43.0	JL.1		100.0%	3.2/0		_	_	_	

Table 35.8 Technology Innovation expenditure trends and estimates by subprogramme and economic classification

Details of transfers and subsidies				Adjusted	Average growth rate	Average: Expen- diture/ Total	Medium	-term expe	nditure	Average growth rate	Average: Expen- diture/ Total
D:!!!:		dited outcor		appropriation	(%)	(%)	2022/22	estimate	2024/25	(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22		- 2021/22	2022/23	2023/24	2024/25	2021/22	•
Various institutions: HIV and AIDS prevention and treatment technologies research	24.6	27.9	29.2	30.2	7.1%	2.0%	31.0	31.1	32.5	2.5%	1.7%
Various institutions: Hydrogen strategy research	-	-	43.8	-	-	0.8%	-	-	-	-	-
Various institutions: Innovation projects research	-	14.9	125.0	402.4	-	9.9%	519.4	521.4	544.8	10.6%	27.8%
Various institutions: Space science research: Economic competitiveness and support package	13.2	54.4	36.2	63.3	68.7%	3.1%	33.3	33.4	34.9	-18.0%	2.3%
National Research Foundation: Research and development in indigenous knowledge systems	9.7	1.6	0.5	6.6	-11.9%	0.3%	6.8	6.8	7.1	2.5%	0.4%
Technology Innovation Agency	420.3	440.9	408.8	447.7	2.1%	31.4%	458.4	460.1	480.8	2.4%	25.8%
South African National Space Agency	138.0	143.5	161.2	202.2	13.6%	11.8%	162.4	163.1	170.4	-5.5%	9.8%
Medical Research Council: Social impact bond	-	-	33.4	-	-	0.6%	-	-	-	-	-
Various institutions: Emerging research areas	3.4	-	-	-	-100.0%	0.1%	-	-	-	-	-
Capital	-	-	48.7	-	-	0.9%	-	-	-	-	-
Various institutions: Hydrogen strategy (capital)	-	-	48.7	-	-	0.9%	-	-	-	-	-
Public corporations and private enter	prises										
Public corporations Other transfers to public corporations	5										
Current	126.9	147.3	113.5	109.0	-4.9%	9.1%	119.8	120.2	125.6	4.8%	6.6%
Various institutions: Technology transfer offices: Support of research units	7.7	8.4	5.1	-	-100.0%	0.4%	-	-	-	-	-
Various institutions: Implementation of bioeconomy strategy	6.0	7.1	1.0	-	-100.0%	0.3%	-	-	-	-	-
Various institutions: Energy grand challenge research	10.2	3.6	-	-	-100.0%	0.3%	-	-	-	-	-
Various institutions: Hydrogen strategy research	4.9	25.9	-	-	-100.0%	0.6%	-	-	-	-	-
Various institutions: Hydrogen strategy (capital)	24.0	13.1	-	-	-100.0%	0.7%	-	-	-	-	-
Various institutions: Innovation projects research	4.9	0.5	3.4	-	-100.0%	0.2%	-	-	_	-	-
Various institutions: Space science research: Economic competitiveness and support package	-	5.0	22.6	_	-	0.5%	-	-	-	-	-
National Research Foundation: Research and development in indigenous knowledge systems	1.5	3.2	1.0	-	-100.0%	0.1%	-	-	-	-	-
Various institutions: Emerging research areas	67.8	80.7	80.5	109.0	17.1%	6.2%	119.8	120.2	125.6	4.8%	6.6%
Public corporations and private enter	prises										
Private enterprises Other transfers to private enterprises											
Current	0.9	7.1	4.4	_	-100.0%	0.2%	_	_	_	_	_
Various institutions: Technology transfer offices: Support of research units	0.6	2.6	4.4	-	-100.0%	0.1%	-	-	-	-	-
Various institutions: Implementation of bioeconomy strategy	-	1.1	-	-	-	-	-	-	_	-	-
Various institutions: Health innovation research	0.3	2.2	-	-	-100.0%	-	-	-	-	-	-
National Research Foundation: Research and development in indigenous knowledge systems	-	1.2	-	-	-	-	-	-	-	-	-
Non-profit institutions							_	_	_		
Current Various institutions: Biofuels	193.6 7.2	185.2 5.6	57.4	243.8 9.1	8.0%	12.4% 0.4%	248.3 9.4	249.2 9.4	260.4 9.8	2.2% 2.5%	14.0% 0.5%
research Various institutions: Implementation	0.9	2.2	7.9	43.4	265.3%	1.0%	44.5	44.7	46.7	2.4%	2.5%

Table 35.8 Technology Innova	ation expe	enditure t	rends ar	nd estimates b	y subpro	gramme a	and econo	omic class	sification		
Details of transfers and subsidies						Average:					Average:
					Average	Expen-				Average	Expen-
				Adjusted	growth rate	diture/ Total	Modium	ı-term expen	dituro	growth rate	diture/ Total
	Aud	lited outcom	ie	appropriation	(%)	(%)	Wedian	estimate	uituie	(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22		- 2021/22	2022/23	2023/24	2024/25		- 2024/25
Various institutions: Energy grand challenge research	26.9	37.4	1	-	-100.0%	1.2%	-	-	-	-	-
Various institutions: Health innovation research	2.6	0.1	-	87.5	223.0%	1.6%	55.0	55.2	57.7	-13.0%	3.6%
Various institutions: Hydrogen strategy research	35.3	16.6	-	42.6	6.4%	1.7%	43.6	43.8	45.8	2.4%	2.5%
Various institutions: Innovation projects research	4.5	4.1	31.9	-	-100.0%	0.7%	-	-	-	-	-
International Centre for Genetic Engineering and Biotechnology	31.2	40.8	15.0	16.1	-19.8%	1.9%	16.6	16.6	17.4	2.5%	0.9%
Various institutions: Space science research: Economic competitiveness and support package	5.3	10.0	-	-	-100.0%	0.3%	-	-	-	-	_
Various institutions: Technology transfer offices: Support for research units	37.4	27.4	1.6	45.0	6.3%	2.0%	44.1	44.2	46.2	0.9%	2.5%
National Research Foundation: Research and development in indigenous knowledge systems	16.9	9.1	0.9	-	-100.0%	0.5%	-	-	-	-	-
Medical Research Council: Social impact bond	-	-	_	-	-	-	35.1	35.3	36.8	-	1.5%
Various institutions: Emerging research areas	25.2	31.9	_	-	-100.0%	1.0%	-	-	-	-	-
Capital	47.0	61.9	-	81.2	20.0%	3.5%	84.1	87.8	91.8	4.2%	4.8%
Various institutions: Hydrogen strategy (capital)	47.0	61.9	1	81.2	20.0%	3.5%	84.1	87.8	91.8	4.2%	4.8%
Higher education institutions											
Current	-	-	91.4		-	1.7%	-	-	-	-	-
Various institutions: Technology transfer offices: Support of research units	-	-	27.4	-	-	0.5%	-	-	-	-	_
Various institutions: Implementation of the bioeconomy strategy	-	-	0.6	-	-	-	-	-	-	-	-
Various institutions: Hydrogen strategy research	-	-	8.0	-	-	0.1%	-	-	-	-	-
Various institutions: Innovation projects research	-	-	-	-	-	-	-	-	-	-	-
Various institutions: Space science research: Economic competitiveness	-	-	13.7	-	-	0.2%	-	-	-	-	_
and support package											
National Research Foundation: Research and development in indigenous knowledge systems	-	_	23.6	-	-	0.4%	-	-	-	-	_
Various institutions: Emerging research areas	-	_	18.1	-	-	0.3%	-	-	-	-	-
Capital	_	_	20.6	_	-	0.4%	_	_	_	_	_
Various institutions: Hydrogen strategy (capital)	-	-	20.6	_	-	0.4%	-	-	_	-	-

Personnel information

Table 35.9 Technology Innovation personnel numbers and cost by salary level¹

	Numb	er of posts																	
	estir	nated for																	
	31 M	arch 2022			Nun	nber and co	st ² of p	ersonr	el posts fil	led/pla	nned f	or on funde	d estab	olishme	ent				Average:
	Number	Number																Average	Salary
	of	of posts																growth	level/
	funded	additional																rate	Total
	posts	to the	Ac	tual		Revise	d estim	nate			Mediu	ım-term ex	pendit	ure esti	imate			(%)	(%)
		establishment	202	0/21		20	21/22		20	22/23		20	23/24		20	24/25		2021/22 -	2024/25
					Unit			Unit			Unit			Unit			Unit		
Technolog	y Innovatio	on	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost		
Salary leve	el 62	_	47	40.3	0.9	65	52.4	0.8	64	52.5	0.8	63	51.7	0.8	62	54.0	0.9	-1.1%	100.0%
1-6	6	-	5	1.2	0.2	7	1.9	0.3	7	1.9	0.3	7	1.8	0.3	7	1.9	0.3	-	11.1%
7 – 10	12	-	6	2.7	0.4	14	6.4	0.5	14	6.5	0.5	14	6.3	0.5	14	6.6	0.5	-0.2%	21.4%
11 – 12	25	_	20	17.0	0.8	25	20.8	0.8	24	20.3	0.8	23	19.3	0.8	23	20.2	0.9	-2.8%	37.5%
13 – 16	19	_	16	19.4	1.2	19	23.4	1.2	19	23.8	1.3	19	24.2	1.3	19	25.3	1.3	-	30.0%

^{1.} Data has been provided by the department and may not necessarily reconcile with official government personnel data.

^{2.} Rand million.

Programme 3: International Cooperation and Resources

Programme purpose

Strategically develop, promote and manage international partnerships that strengthen the national system of innovation. Enable an exchange of knowledge, capacity and resources between South Africa and its international partners, with a focus on building capacity to support science, technology and innovation in Africa. Support South African foreign policy through science diplomacy.

Objectives

- Maximise South Africa's strategic interests in science, technology and innovation through international
 cooperation and promote a transformed, inclusive, responsive and coherent national system of innovation
 by leveraging resources through 129 projects with donor funders over the MTEF period.
- Develop human capabilities and skills for the economy and development by securing opportunities for 978 South African students to participate in international programmes over the medium term.
- Revitalise existing industries and stimulate research to lead industrial development by participating in 45 initiatives targeting the objectives of the African Union's Agenda 2063, and 51 initiatives focused on the Southern African Development Community's regional indicative strategic development plan by March 2024.
- Support innovation within a capable state by engaging with 36 science, technology and innovation leaders in multilateral forums by March 2024.

Subprogrammes

- Multilateral Cooperation and Africa advances and facilitates South Africa's participation in bilateral science, technology and innovation cooperation initiatives with other African partners; in African multilateral programmes, especially those of the Southern African Development Community and the African Union; and in broader multilateral science, technology and innovation partnerships, with a strategic focus on South-South cooperation.
- International Resources works to increase the flow of international funding into South African science, technology and innovation initiatives, as well as African regional and continental programmes, to promote foreign investment and the fostering of strategic partnerships with partners such as the European Union, philanthropic foundations and organisations, and the multinational private sector.
- Overseas Bilateral Cooperation promotes and facilitates South Africa's bilateral cooperation on science, technology and innovation with partners in Europe, the Americas, Asia and Australasia, especially for human capital development and collaborative research and innovation; and secures support for cooperation with other African partners.
- Office of the Deputy Director-General: International Cooperation and Resources provides management and administrative support to the programme and the office of the deputy director-general.

Expenditure trends and estimates

Table 35.10 International Cooperation and Resources expenditure trends and estimates by subprogramme and economic classification

Subprogramme					Average growth	Average: Expen- diture/				Average growth	Average: Expen- diture/
	Λ.ι.ο	lited outcor	no	Adjusted appropriation	rate (%)	Total (%)	Medium	-term expei estimate	nditure	rate (%)	Total (%)
R million	2018/19	2019/20	2020/21	2021/22		- 2021/22	2022/23	2023/24	2024/25		- 2024/25
Multilateral Cooperation and Africa	36.1	30.5	26.4	29.3	-6.8%	22.7%	32.7	32.6	34.0	5.2%	21.4%
International Resources	61.9	61.5	57.7	67.1	2.7%	46.0%	68.4	68.4	71.5	2.1%	45.9%
Overseas Bilateral Cooperation	41.9	37.4	24.4	43.0	0.9%	27.2%	43.7	43.5	45.4	1.8%	29.3%
Office of the Deputy Director- General: International Cooperation and Resources	5.3	6.7	5.8	5.0	-1.8%	4.2%	5.1	5.0	5.2	1.5%	3.4%
Total	145.2	136.0	114.2	144.4	-0.2%	100.0%	149.9	149.5	156.2	2.6%	100.0%
Change to 2021 Budget estimate				(2.2)			0.8	-	_		

Table 35.10 International Cooperation and Resources expenditure trends and estimates by subprogramme and economic classification

classification											
Economic classification				Adjusted	Average growth rate	Average: Expen- diture/ Total	Medium	n-term expe	nditure	Average growth rate	Average: Expen- diture/ Total
		lited outcor		appropriation	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22		- 2021/22	2022/23	2023/24	2024/25		- 2024/25
Current payments	77.0	68.1	51.9	69.9	-3.2%	49.5%	73.5	72.7	76.0	2.8%	48.7%
Compensation of employees	51.8	48.4	47.3	54.0	1.4%	37.3%	54.1	53.3	55.7	1.0%	36.2%
Goods and services	25.2	19.8	4.6	15.9	-14.2%	12.1%	19.4	19.5	20.4	8.6%	12.5%
of which:											
Communication	1.3	1.1	1.9	1.7	8.2%	1.1%	1.7	1.7	1.8	2.5%	1.2%
Agency and support/outsourced services	-	0.1	-	0.8	-	0.2%	0.8	0.8	0.8	2.5%	0.5%
Entertainment	0.2	0.2	0.0	0.9	71.7%	0.2%	0.9	0.9	1.0	2.5%	0.6%
Travel and subsistence	10.7	8.3	1.3	5.3	-21.0%	4.7%	7.5	7.5	7.8	14.1%	4.7%
Operating payments	0.5	2.7	0.5	1.4	38.3%	0.9%	1.4	1.4	1.5	2.5%	0.9%
Venues and facilities	7.9	6.5	0.1	3.1	-26.8%	3.2%	4.2	4.2	4.4	12.5%	2.6%
Transfers and subsidies	68.2	67.9	62.2	74.5	3.0%	50.5%	76.4	76.7	80.2	2.5%	51.3%
Departmental agencies and accounts	29.5	34.2	35.3	16.7	-17.3%	21.4%	17.1	17.1	17.9	2.4%	11.5%
Higher education institutions	_	_	11.3	_	_	2.1%	_	_	_	_	_
Public corporations and private	8.8	8.7	6.4	_	-100.0%	4.4%	_	_	_	_	_
enterprises											
Non-profit institutions	29.0	24.8	9.1	57.8	25.9%	22.4%	59.4	59.6	62.3	2.5%	39.8%
Households	0.9	0.2	0.1	_	-100.0%	0.2%	_	_	_	_	_
Payments for capital assets	0.0	_	_	_	-100.0%	_	_	_		_	-
Machinery and equipment	0.0	_	_	_	-100.0%	_	_	_	-	_	-
Payments for financial assets	_	_	0.1	_	_	_	_	_	_	_	-
	145.3	136.0		144.4	-0.2%	100.0%	149.9	149.5	156.2	3.69/	100.0%
Total	145.2		114.2		-0.2%					2.6%	100.0%
Proportion of total programme expenditure to vote expenditure	1.8%	1.7%	1.6%	1.6%	_	-	1.6%	1.6%	1.6%	-	-
Details of transfers and subsidies Households											
Social benefits											
Current	0.2	0.2	0.1	-	-100.0%	0.1%	-	-	_	-	-
Households	0.2	0.2	0.1	1	-100.0%	0.1%	-	-	1	-	-
Households											
Other transfers to households											
Current	0.7	_	_	_	-100.0%	0.1%	_	_	_	_	_
Households	0.7	_	_	1	-100.0%	0.1%	_	_	_	_	1
Departmental agencies and accounts	0.7				100.070	0.1270					
Departmental agencies (non-business	entities)										
Current	29.5	34.2	35.3	16.7	-17.3%	21.4%	17.1	17.1	17.9	2.4%	11.5%
National Research Foundation: Bilateral cooperation for global science development	14.8	15.9	2.6	16.7	4.1%	9.2%	17.1	17.1	17.9	2.4%	11.5%
Various institutions: Global science: International multilateral	9.5	18.3	25.9	-	-100.0%	10.0%	-	-	-	-	-
agreements Various institutions: Global science: African multilateral agreements	5.2	-	6.8	-	-100.0%	2.2%	-	-	-	-	-
Public corporations and private enter Public corporations	prises										
Other transfers to public corporations	S										
Current	8.4	8.0	3.2	_	-100.0%	3.6%	_	_	_	_	_
Various institutions: Global science: International multilateral agreements	4.4	3.6	0.4	-	-100.0%	1.6%			-	-	-
Various institutions: Global science: African multilateral agreements	4.0	4.4	2.8	-	-100.0%	2.1%	-	-	-	-	-
Public corporations and private enter	prises			i							
Private enterprises Other transfers to private enterprises	i										

Table 35.10 International Cooperation and Resources expenditure trends and estimates by subprogramme and economic classification

Details of transfers and subsidies					Average	Average: Expen-				Average	Average: Expen-
					growth	diture/				growth	diture/
				Adjusted	rate	Total	Medium	ı-term expei	nditure	rate	Total
-		lited outcor		appropriation	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	•	- 2021/22	2022/23	2023/24	2024/25	2021/22	- 2024/25
Current	0.4	0.7	3.3	-	-100.0%	0.8%	-	-	-	-	-
National Research Foundation: Bilateral cooperation for global science development	-	-	_	-	-	-	-	-	_	-	-
Various institutions: Global science: International multilateral agreements	0.4	0.7	3.3	-	-100.0%	0.8%	ı	_	_	-	-
Non-profit institutions											
Current	29.0	24.8	9.1	57.8	25.9%	22.4%	59.4	59.6	62.3	2.5%	39.8%
National Research Foundation: Bilateral cooperation for global science development	-	-	3.8	-	-	0.7%	1	-	1	-	-
Various institutions: Global science: International multilateral agreements	28.8	21.2	5.1	47.3	18.0%	19.0%	48.6	48.8	51.0	2.5%	32.6%
Various institutions: Global science: African multilateral agreements	0.2	3.7	0.2	10.5	283.5%	2.7%	10.8	10.8	11.3	2.5%	7.2%
Higher education institutions											
Current	-	-	10.7	-	-	2.0%	-	-	_	-	-
National Research Foundation: Bilateral cooperation for global science development	-	-	4.3	-	-	0.8%	-	-	1	-	-
Various institutions: Global science: International multilateral agreements	-	-	6.4	-	-	1.2%		-	-	-	-

Table 35.11 International Cooperation and Resources personnel numbers and cost by salary level¹

			орогии.									, , , , , , , , , , , , , , , , , , ,		_					
		er of posts																	•
		nated for																_	Average:
	31 M	arch 2022			Nun	nber and co	st ² of p	ersoni	nel posts fi	lled/pla	anned f	or on fund	ed esta	blishm	ent			Average	Salary
	Number	Number																growth	level/
	of	of posts																rate	Total
	funded	additional	Ac	tual		Revise	d estim	nate			Medi	ım-term ex	pendit	ure est	imate			(%)	(%)
	posts	to the																	
	•	establishment	202	0/21		20	21/22		20	22/23		20	23/24		20	24/25		2021/22 -	2024/25
Internation	al Coopera	tion and			Unit			Unit			Unit			Unit			Unit		
Resources			Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost		
Salary level	69	-	53	47.3	0.9	55	54.0	1.0	53	54.1	1.0	50	53.3	1.1	50	55.7	1.1	-2.9%	100.0%
1-6	4	-	4	1.2	0.3	4	1.3	0.3	4	1.3	0.3	2	0.6	0.3	2	0.7	0.3	-20.6%	5.8%
7 – 10	27	-	24	13.1	0.5	20	11.0	0.6	18	10.3	0.6	17	9.8	0.6	17	10.3	0.6	-4.6%	35.0%
11 – 12	18	-	15	16.6	1.1	15	16.3	1.1	15	16.5	1.1	15	16.5	1.1	15	17.3	1.2	-	28.8%
13 – 16	20	-	10	16.4	1.6	16	25.4	1.6	16	25.8	1.6	16	26.3	1.7	16	27.4	1.7	_	30.5%

 $^{1. \ \, {\}it Data has been provided by the department and may not necessarily reconcile with official government personnel data}.$

Programme 4: Research, Development and Support

Programme purpose

Provide an enabling environment for research and knowledge production that promotes the strategic development of basic sciences and priority science areas through the promotion of science human capital development, and the provision of research infrastructure and relevant research support, in pursuit of South Africa's transition to a knowledge economy.

Objectives

- Contribute to the development of representative, high-level human capital who can pursue locally relevant, globally competitive research and innovation activities over the medium term by:
 - awarding 7 200 bursaries to doctoral students
 - awarding 13 900 bursaries to pipeline postgraduate (BTech, honours and masters) students

^{2.} Rand million.

- placing 2 250 graduates and students in department-funded work preparation programmes in science, engineering and technology institutions.
- Ensure the availability of and access to internationally comparable research and innovation infrastructure to generate new knowledge and train new researchers by:
 - increasing the number of research infrastructure grants from 25 in 2022/23 to 30 in 2024/25
 - increasing the total available broadband capacity provided by the South African National Research Network from 6 200 Gbps in 2022/23 to 7 100 Gbps in 2024/2025.
- Increasing knowledge generation and innovation output by:
 - ensuring that 14 100 researchers over the medium term are awarded research grants through programmes managed by the National Research Foundation
 - ensuring that 22 500 research articles over the medium term are published by researchers funded by the
 National Research Foundation and cited in the Web of Science citation database
 - completing the production of the L-band receivers for the additional 20 MeerKAT antennae by 2022/23 and installing the receivers by 2023/24
 - installing 20 MeerKAT extension antennae by 2022/23 and 4 SKA1-molded interconnect device antennae by 2024/25
 - conducting 42 initiatives to promote public awareness of and engagement with science over the medium term, and publishing the first South African public relationship with science survey report by 2023/24
 - maintaining the number of strategic and technical engagements with the National Research Foundation,
 Academy of Science of South Africa and the South African Council for Natural Scientific Professions at 36 to ensure alignment with national priorities by 2024/25.

Subprogrammes

- Human Capital and Science Promotions formulates and implements policies and strategies that address the availability of human capital for science, technology and innovation; provides fundamental support for research activities; and contributes to the development of a society that is scientifically literate, knowledgeable about science and critically engaged.
- Science Missions promotes the development of research and the production of scientific knowledge and human capital in scientific areas in which South Africa enjoys a geographic advantage.
- Basic Science and Infrastructure facilitates the strategic implementation of research and innovation equipment and facilities to promote knowledge production in national priority areas and sustain innovation led by research and development.
- Astronomy supports the development of astronomical sciences around a new multi-wavelength astronomy strategy, and provides strategic guidance and support to relevant astronomy institutions for the implementation of strategic astronomy programmes.
- Office of the Deputy Director-General: Research, Development and Support provides management and administrative support to the programme and the office of the deputy director-general.

Expenditure trends and estimates

Table 35.12 Research, Development and Support expenditure trends and estimates by subprogramme and economic classification

	оринент аг	na Suppoi	t expend	liture trends a	na estim	ates by si	upprograi	mme and	econom	ic ciassiti	cation
Subprogramme					_	Average:				_	Average:
					Average growth	Expen- diture/				Average growth	Expen- diture/
				Adjusted	rate	Total	Medium	-term expe	nditure	rate	Total
	Aud	ited outcom	e	appropriation	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22		- 2021/22	2022/23	2023/24	2024/25		2024/25
Human Capital and Science Promotions	2 447.2	2 629.8	2 305.8	2 711.5	3.5%	56.6%	2 770.3	2 780.8	2 905.5	2.3%	53.8%
Science Missions	223.3	239.2	215.7	184.9	-6.1%	4.8%	256.2	257.0	268.5	13.2%	4.7%
Basic Science and Infrastructure	1 095.3	978.7	687.2	1 041.8	-1.7%	21.3%	1 190.8	1 241.3	1 297.0	7.6%	23.0%
Astronomy	750.8	728.4	520.2	1 053.4	11.9%	17.1%	883.7	920.4	961.7	-3.0%	18.4%
Office of the Deputy Director- General: Research, Development	3.8	2.3	2.1	4.0	1.5%	0.1%	4.0	4.0	4.2	1.3%	0.1%
and Support											
Total	4 520.4	4 578.4	3 731.0	4 995.6	3.4%	100.0%	5 105.0	5 203.4	5 436.9	2.9%	100.0%
Change to 2021				46.4			11.8	11.3	-		
Budget estimate											
Economic classification											
Current payments	53.2	52.7	42.9	51.8	-0.8%	1.1%	56.3	55.8	58.3	4.0%	1.1%
Compensation of employees	37.9	39.9	40.6	39.4	1.4%	0.9%	39.5	38.9	40.6	1.0%	0.8%
Goods and services	15.3	12.8	2.3	12.4	-6.8%	0.2%	16.8	16.9	17.7	12.5%	0.3%
of which:											
Administrative fees	0.5	0.4	0.0	0.7	10.2%	_	0.7	0.7	0.7	2.5%	-
Communication	0.6	0.7	0.5	0.8	13.0%	-	0.8	0.8	0.9	2.5%	_
Consultants: Business and advisory services	1.3	0.7	0.6	1.3	0.7%	-	1.4	1.4	1.4	2.5%	-
Agency and support/outsourced services	0.7	0.3	0.0	1.0	14.9%	-	1.1	1.1	1.1	2.5%	-
Travel and subsistence	8.5	8.3	0.7	5.3	-14.7%	0.1%	8.5	8.5	8.9	19.1%	0.2%
Venues and facilities	1.8	1.0	0.1	1.4	-8.0%	-	2.4	2.4	2.5	23.1%	-
Transfers and subsidies	4 467.3	4 525.7	3 688.0	4 943.8	3.4%	98.9%	5 048.8	5 147.6	5 378.6	2.8%	98.9%
Departmental agencies and accounts	3 859.1	3 869.5	3 202.4	4 706.7	6.8%	87.7%	4 767.0	4 853.4	5 071.2	2.5%	93.5%
Higher education institutions	-	-	120.3	_	-	0.7%	-	-	-	-	-
Public corporations and private enterprises	466.7	454.4	206.7	237.1	-20.2%	7.7%	281.8	294.2	307.4	9.0%	5.4%
Non-profit institutions	141.4	200.4	158.5	_	-100.0%	2.8%	-	-	-	-	-
Households	0.0	1.4	0.2	_	-100.0%	-			_	-	-
Payments for capital assets	0.0	-	-	_	-100.0%	-	-	-	-	-	-
Machinery and equipment	0.0			_	-100.0%	-	_		-	-	-
Payments for financial assets	0.0	0.0	0.0	-	-100.0%	-			-	-	
Total	4 520.4	4 578.4	3 731.0	4 995.6	3.4%	100.0%	5 105.0	5 203.4	5 436.9	2.9%	100.0%
Proportion of total programme expenditure to vote expenditure	56.9%	56.7%	52.1%	55.5%	_	-	55.9%	56.3%	56.3%	-	-
expenditure to vote expenditure											
Details of transfers and subsidies											
Households											
Social benefits			_								
Current	0.0	_	0.2	-	-100.0%	-		_	-	-	_
Households	0.0		0.2		-100.0%	-			_	-	-
Households											
Other transfers to households											
Current	-	1.4	0.1	_	-	-			-	-	_
Various institutions: Policy development on human and social development dynamics	_	0.3	-	_	_	_	_	_	_	_	_
National Research Foundation: Human resources development for	-	1.1	-	-	-	-	-	-	-	-	-
science and engineering Various institutions: Strategic	_	_	0.1				_	_	_		
science platforms for research and development	_	_	0.1	_			_	_	_	_	_

Table 35.12 Research, Devel	lopment a	nd Suppo	rt expend	liture trends a	nd estim	nates by s	ubprogra	mme and	leconom	ic classif	ication
Details of transfers and subsidies					Average growth	Average: Expen- diture/				Average growth	Average: Expen- diture/
				Adjusted	rate	Total	Medium	n-term expe	nditure	rate	Total
		dited outcon		appropriation	(%)	(%)	2022/22	estimate	2024/25	(%)	(%)
R million Departmental agencies and account	2018/19	2019/20	2020/21	2021/22	2018/19	- 2021/22	2022/23	2023/24	2024/25	2021/22	- 2024/25
Departmental agencies (non-busine											
Current	2 615.9	2 774.5	2 471.0	2 930.2	3.9%	60.5%	3 075.2	3 087.0	3 225.5	3.3%	59.4%
Academy of Science of South Africa	25.7	27.0	24.8	33.2	9.0%	0.6%	33.8	34.0	35.5	2.2%	0.7%
Various institutions: Astronomy research and development	30.6	32.8	32.5	25.6	-5.8%	0.7%	41.7	41.9	43.8	19.5%	0.7%
Various institutions: Policy development on human and social development dynamics	25.6	27.1	28.3	36.9	13.0%	0.7%	37.9	38.1	39.8	2.5%	0.7%
National Research Foundation: Human resources development for science and engineering	851.9	922.3	762.3	1 002.9	5.6%	19.9%	1 006.9	1 010.7	1 056.1	1.7%	19.7%
National Research Foundation: Human resources development for science and engineering: Economic competitiveness and support package	-	-	23.1	18.6	_	0.2%	19.1	19.2	20.0	2.5%	0.4%
National Research Foundation	904.8	943.4	859.5	962.6	2.1%	20.6%	997.4	1 001.3	1 046.1	2.8%	19.3%
Various institutions: Science awareness, research and initiatives to encourage youth participation in science	58.1	64.3	30.0	91.6	16.4%	1.4%	94.1	94.4	98.7	2.5%	1.8%
National Research Foundation: South African research chairs initiative to develop human resources in science	530.3	566.3	544.5	588.6	3.5%	12.5%	602.9	605.2	632.4	2.4%	11.7%
Various institutions: Strategic science platforms for research and development	188.9	191.3	166.2	170.2	-3.4%	4.0%	241.3	242.3	253.1	14.2%	4.4%
Capital	1 243.2	1 095.0	731.4	1 776.5	12.6%	27.2%	1 691.8	1 766.4	1 845.7	1.3%	34.1%
Various institutions: Infrastructure projects for research and development	534.0	408.0	253.7	758.3	12.4%	11.0%	861.6	899.6	940.0	7.4%	16.7%
National Research Foundation: Square Kilometre Array: Capital contribution to research	709.2	687.0	477.7	1 018.2	12.8%	16.2%	830.2	866.8	905.7	-3.8%	17.5%
Public corporations and private enterprises											
Public corporations											
Other transfers to public corporatio											
Current National Research Foundation:	49.8	78.1 41.2	62.1 42.0		-100.0%	1.1%	-	-	_	-	-
Human resources development for science and engineering	_	41.2	42.0	_	_	0.5%	_	_	_	-	_
National Research Foundation: Human resources development for science and engineering: Economic competitiveness and support package	41.0	22.0	-	-	-100.0%	0.4%	_	-	-	-	_
Various institutions: Strategic science platforms for research and development	6.4	14.9	20.1	-	-100.0%	0.2%	_	-	-	-	-
Various institutions: Science awareness	2.4	-	_	-	-100.0%	_	_	-	-	-	_
Capital	417.0	376.3	142.6	237.1	-17.2%	6.6%	281.8	294.2	307.4	9.0%	5.4%
Council for Scientific and Industrial Research: Cyberinfrastructure research and development	236.3	251.7	60.2	237.1	0.1%	4.4%	281.8	294.2	307.4	9.0%	5.4%
Various institutions: Infrastructure projects for research and development	180.7	124.6	82.3	-	-100.0%	2.2%	-	-	-	_	-
Public corporations and private enterprises											
Private enterprises											
Other transfers to private enterprise	es										

Table 35.12 Research, Development and Support expenditure trends and estimates by subprogramme and economic classification

Table 35.12 Research, Devel	opment a	nd Suppo	rt expend	liture trends a	nd estin		ubprograi	mme and	econom	ic classifi	
Details of transfers and subsidies				Adjusted	Average growth rate	Average: Expen- diture/ Total	Medium	-term expe	nditure	Average growth rate	Average: Expen- diture/ Total
<u>-</u>		ited outcom		appropriation	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19	- 2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Current	-	-	2.0	-	-	-	-	-	-	-	-
Various institutions: Strategic science platforms for research and development	_	-	2.0	_	-	_	_	_	_	-	_
Non-profit institutions											
Current	34.4	45.6	9.4	-	-100.0%	0.5%	-	_	-	-	
Various institutions: Policy development on human and social development dynamics	-	1.5	1.6	_	-	_	-	-	-	-	-
National Research Foundation: Human resources development for science and engineering	4.6	11.2	1.8	_	-100.0%	0.1%	-	-	-	-	-
Various institutions: Science awareness, research and initiatives to encourage youth participation in science	16.8	17.0	_	-	-100.0%	0.2%	-	_	-	_	-
National Research Foundation: Square Kilometre Array: Capital contribution to research	0.2	-	-	-	-100.0%	-	-	-	-	-	-
Various institutions: Strategic science platforms for research and development	11.1	15.9	1.0	-	-100.0%	0.2%	-	-	-	-	-
Various institutions: Astronomy research and development	-	-	5.0	-	-	_	-	-	-	-	-
Various institutions: Policy development on basic science development and support	1.8	-	-	I	-100.0%	-	-	-	_	-	-
Capital	107.1	154.8	149.1	ı	-100.0%	2.3%	_	_	-	-	-
Various institutions: Infrastructure projects for research and development	107.1	154.8	149.1	_	-100.0%	2.3%	_	_	-	-	-
Higher education institutions											
Current	_	-	19.9	-	-	0.1%	-	_	-	-	
Various institutions: Policy development on human and social development dynamics	-	-	2.1	-	-	_	-	-	-	-	_
National Research Foundation: Human resources development for science and engineering	-	-	2.0	-	-	-	-	-	-	-	-
Various institutions: Science awareness, research and	-	-	3.5	-	-	-	-	-	-	-	-
participation in science Various institutions: Strategic	_	_	12.2	_	_	0.1%	_	_	_ ا		_
science platforms for research and development	_	_		_	_	0.1%	_	_			_
Various institutions: Astronomy research and development	_	_	0.1	-	-	-	_	_	-	-	-
Capital	-	-	100.4	-	-	0.6%	-	-	-	-	-
Various institutions: Infrastructure projects for research and development	-	-	100.4	-	-	0.6%	-	-	-	-	-

Table 35.13 Research, Development and Support personnel numbers and cost by salary level¹

	estima	r of posts ated for ch 2022			Nui	mber and c	ost² of	perso	nnel posts	filled/	planne	ed for on f	unded es	tablishn	nent			A	Average:
•	Number	Number																Average growth	Salary level/
	of	of posts																rate	Total
	funded posts	additional to the	Ac	tual		Revise	d estin	nate			Med	ium-term	expendit	ure estir	nate			(%)	(%)
	posts	establish-																	
		ment	202	20/21		20	21/22		20:	22/23		2	023/24		202	24/25		2021/22	- 2024/25
Research,	Developn	nent and			Unit			Unit			Unit			Unit			Unit		
Support			Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost		
Salary lev	el 55	-	45	40.6	0.9	44	39.4	0.9	43	39.5	0.9	42	38.9	0.9	42	40.6	1.0	-1.8%	100.0%
1-6	4	-	4	1.1	0.3	4	1.1	0.3	3	0.9	0.3	3	0.8	0.3	3	0.9	0.3	-9.1%	7.6%
7 – 10	10	-	7	2.9	0.4	6	2.7	0.4	6	2.4	0.4	6	2.4	0.4	6	2.5	0.4	-4.3%	13.5%
11 – 12	24	-	20	18.9	0.9	20	17.5	0.9	20	17.8	0.9	20	17.7	0.9	20	18.5	0.9	-0.0%	46.8%
13 – 16	17	-	14	17.8	1.3	14	18.1	1.3	14	18.4	1.3	13	17.9	1.3	13	18.7	1.4	-1.3%	32.1%

^{1.} Data has been provided by the department and may not necessarily reconcile with official government personnel data.

Programme 5: Socioeconomic Innovation Partnerships

Programme purpose

Enhance government's growth and development priority areas through targeted science and technology-based innovation interventions, and the development of strategic partnerships with other government departments, industry, research institutions and communities.

Objectives

- Inform and influence how science and technology can be used to achieve inclusive development through knowledge, evidence and learning over the medium term by:
 - publishing 28 knowledge products on innovation for inclusive development
 - maintaining and improving 11 decision support systems
 - generating 47 learning interventions.
- Identify, grow and sustain niche, high-potential science, technology and innovation capabilities for sustainable development and the greening of society and the economy by fully funding and co-funding 380 honours, masters and doctoral students, and adding 26 knowledge and innovation products to the intellectual property portfolio over the medium term.
- Identify, grow and sustain niche high-potential science, technology and innovation capabilities that improve the competitiveness of existing industries with growth potential in aerospace, advanced manufacturing, chemicals, advanced metals, mining and within sector innovation funds, and facilitate the development of new industries led by research and development over the medium term.
- Identify, grow and sustain niche, high-potential science, technology and innovation capabilities that improve the competitiveness of existing industries with growth potential in aerospace, advanced manufacturing, chemicals, advanced metals, mining, ICT and within sector innovation funds; and facilitate the development of new targeted industries over the medium term by:
 - fully funding or co-funding 1 461 masters and doctoral students, and 602 interns
 - adding 140 knowledge and innovation products to South Africa's intellectual property portfolio
 - funding 12 instruments in support of increased localisation, competitiveness and industry development led by research and development.
- Introduce and manage interventions and incentive programmes that increase the level of private sector investment in scientific or technological research and development by providing preapproval decisions within 90 days of the date of receipt of applications for the research and development tax incentive over the medium term.

^{2.} Rand million.

Subprogrammes

- Sector Innovation and Green Economy provides policy, strategy and direction for growth in strategic sectors of the economy led by research and development, and supports the transition to a green economy.
- Innovation for Inclusive Development supports the development of science and technology-based innovations for tackling poverty, including the creation of sustainable jobs and human settlements, and the enhanced delivery of basic services.
- Science and Technology Investment leads and supports the development of indicators and instruments for monitoring investments in science and technology, the performance of the national system of innovation, and ways of strengthening policy in relation to the national system of innovation.
- Technology Localisation, Beneficiation and Advanced Manufacturing funds development programmes for technology and innovation to advance strategic and sustainable economic growth, sector development priorities, and service delivery over the medium and long terms.
- Office of the Deputy Director-General: Socioeconomic Innovation Partnership provides management and administrative support to the programme and the office of the deputy director-general.

Expenditure trends and estimates

Table 35.14 Socioeconomic Innovation Partnerships expenditure trends and estimates by subprogramme and economic classification

Part	Subprogramme						Average:		-			Average:
Part						Average	Expen-				Average	Expen-
Million					Adjusted	_		Modius	torm ovnor	aditura	-	
Rmillion 2014/19 2019/20 2020/21 2021/22 2021/23 2022/23 2023/24 2024/25 2021/22 2022/25 2024/25 2021/22 2022/25 2024/25 2021/22 2022/25 2024/25 2021/22 2022/25 2024/25 2021/22 2022/25 2024/25 2021/22 2022/25 2024/25 2021/22 2022/25 202		Auc	lited outcon	ne				Wediuii		iuiture		
Sector Innovation and Green 1031.3 1042.7 984.3 1120.5 2.8% 59.4% 1092.0 1096.1 1145.3 0.7% 61.9% Ecconomy Innovation for Inclusive 340.0 373.1 332.6 403.9 5.9% 20.6% 383.1 384.3 401.6 -0.2% 21.9% 22.9%	R million							2022/23		2024/25		
Innovation for Inclusive 34.0 37.1 332.6 403.9 5.9% 20.6% 383.1 384.3 401.6 -0.2% 21.9% 20.9% 20.9% 20.9% 383.1 384.3 401.6 -0.2% 21.9% 20.9	Sector Innovation and Green	1 031.3	1 042.7	984.3	1 120.5			1 092.0	1 096.1	1 145.3		
Development Science and Technology Investment 29.9 34.0 30.7 35.5 5.8% 1.8% 25.1 25.1 26.2 9.6% 1.6%	Economy											
Technology Localisation, 350.1 323.6 325.7 259.4 9.5% 17.9% 255.6 256.3 268.0 1.1% 14.4% 2.1%		340.0	373.1	332.6	403.9	5.9%	20.6%	383.1	384.3	401.6	-0.2%	21.9%
Reneficiation and Advanced Manufacturing	Science and Technology Investment	29.9	34.0	30.7	35.5	5.8%	1.8%	25.1	25.1	26.2	-9.6%	1.6%
Communication Partnership Partnership	Beneficiation and Advanced	350.1	323.6	325.7	259.4	-9.5%	17.9%	255.6	256.3	268.0	1.1%	14.4%
Total	General: Socioeconomic Innovation	4.0	4.9	4.7	6.4	16.9%	0.3%	3.4	3.4	3.5	-17.8%	0.2%
Budget estimate Sumator Sumato		1 755.2	1 778.2	1 678.0	1 825.6	1.3%	100.0%	1 759.2	1 765.1	1 844.6	0.3%	100.0%
Economic classification Si.7 49.0 47.0 57.9 3.8% 2.9% 55.2 54.6 57.1 -0.5% 3.1%	Change to 2021				96.5			(10.5)	(11.3)	_		
Current payments S1.7 49.0 47.0 57.9 3.8% 2.9% 55.2 54.6 57.1 -0.5% 3.1%	Budget estimate											
Current payments S1.7 49.0 47.0 57.9 3.8% 2.9% 55.2 54.6 57.1 -0.5% 3.1%												
Compensation of employees	Economic classification											
Goods and services of which: 7.7 5.8 4.8 12.9 18.7% 0.4% 10.2 10.3 10.7 -6.1% 0.6% of which: Advertising - 0.0 - 0.2 - - 0.2 0.3 0.3 2.5% - Catering: Departmental activities 0.0 0.0 - 0.3 104.7% - 0.4 0.4 0.4 2.5% - Communication 0.7 0.8 2.4 1.2 22.0% 0.1% 1.2 1.2 1.3 2.5% 0.1% Consultants: Business and advisory services 0.7 0.8 2.4 1.2 22.0% 0.1% 1.2 1.2 1.3 2.5% 0.1% Travel and subsistence 2.3 2.2 0.1 3.8 17.7% 0.1% 3.9 3.9 4.1 2.5% 0.2% Venues and facilities 1703.5 1729.2 1631.0 1767.7 1.2% 97.1% 1704.0 1710.5	Current payments	51.7	49.0	47.0	57.9	3.8%	2.9%	55.2	54.6	57.1	-0.5%	3.1%
of which: Advertising — 0.0 — 0.2 — — 0.2 0.3 0.3 2.5% — Catering: Departmental activities 0.0 0.0 — 0.3 104.7% — 0.4 0.4 0.4 2.5% — Communication 0.7 0.8 2.4 1.2 22.0% 0.1% 1.2 1.2 1.3 2.5% 0.1% Consultants: Business and advisory services 0.7 0.2 1.0 2.8 62.9% 0.1% 2.9 2.9 3.0 2.5% 0.2% Venues and facilities 0.0 0.1 0.0 0.9 243.2% — 1.0 1.0 2.5% 0.2% Venues and facilities 1703.5 1729.2 1631.0 1767.7 1.2% 97.1% 170.0 1.0 2.5% 0.1% Transfers and subsidies 1703.5 1729.2 1631.0 1767.7 1.2% 97.1% 1704.0 1710.5 1787.5 0.4%	Compensation of employees	44.0	43.2	42.2	45.0	0.7%	2.5%	45.0	44.4	46.4	1.0%	2.5%
Advertising	Goods and services	7.7	5.8	4.8	12.9	18.7%	0.4%	10.2	10.3	10.7	-6.1%	0.6%
Catering: Departmental activities 0.0 0.0 - 0.3 104.7% - 0.4 0.4 0.4 2.5% - Communication 0.7 0.8 2.4 1.2 22.0% 0.1% 1.2 1.2 1.3 2.5% 0.1% Consultants: Business and advisory services 0.7 0.2 1.0 2.8 62.9% 0.1% 2.9 2.9 3.0 2.5% 0.2% Venues and facilities 0.0 0.1 0.0 0.9 243.2% - 1.0 1.0 1.0 2.5% 0.1% Transfers and subsidies 1703.5 1729.2 1631.0 1767.7 1.2% 97.1% 1704.0 1710.5 1787.5 0.4% 96.9% Departmental agencies and accounts 398.9 492.2 438.0 601.5 14.7% 27.4% 522.5 520.5 540.8 -3.5% 30.4% Public corporations and private enterprises 1245.7 1 194.2 1 164.7 1 166.2 -2.2% 67.8%	of which:											
Communication 0.7 0.8 2.4 1.2 22.0% 0.1% 1.2 1.2 1.3 2.5% 0.1% Consultants: Business and advisory 9.7 0.2 1.0 2.8 62.9% 0.1% 2.9 2.9 3.0 2.5% 0.2% services Travel and subsistence 2.3 2.2 0.1 3.8 17.7% 0.1% 3.9 3.9 4.1 2.5% 0.2% Venues and facilities 0.0 0.1 0.0 0.9 243.2% - 1.0 1.0 1.0 1.0 2.5% 0.1% Transfers and subsidies 1703.5 1729.2 1631.0 1767.7 1.2% 97.1% 1704.0 1710.5 1787.5 0.4% 96.9% Departmental agencies and 398.9 492.2 438.0 601.5 14.7% 27.4% 522.5 520.5 540.8 -3.5% 30.4% accounts Public corporations and private enterprises Non-profit institutions 58.8 42.8 28.3 - 100.0% 1.8%	Advertising	-	0.0	-	0.2	-	-	0.2	0.3	0.3	2.5%	-
Consultants: Business and advisory services Travel and subsistence 2.3 2.2 0.1 3.8 17.7% 0.1% 3.9 3.9 4.1 2.5% 0.2% Venues and facilities 0.0 0.1 0.0 0.9 243.2% - 1.0 1.0 1.0 1.0 2.5% 0.1% Transfers and subsidies 1703.5 1729.2 1631.0 1767.7 1.2% 97.1% 1704.0 1710.5 1787.5 0.4% 96.9% Departmental agencies and accounts Public corporations and private enterprises Non-profit institutions 58.8 42.8 28.3 - 100.0% 1.8%	Catering: Departmental activities	0.0	0.0	-	0.3	104.7%	-	0.4	0.4	0.4	2.5%	-
services Travel and subsistence 2.3 2.2 0.1 3.8 17.7% 0.1% 3.9 3.9 4.1 2.5% 0.2% Venues and facilities 0.0 0.1 0.0 0.9 243.2% - 1.0 1.0 1.0 2.5% 0.1% Transfers and subsidies 1703.5 1729.2 1631.0 1767.7 1.2% 97.1% 1704.0 1710.5 1787.5 0.4% 96.9% Departmental agencies and accounts 398.9 492.2 438.0 601.5 14.7% 27.4% 522.5 520.5 540.8 -3.5% 30.4% Public corporations and private enterprises 1245.7 1 194.2 1 164.7 1 166.2 -2.2% 67.8% 1 181.5 1 190.0 1 246.7 2.3% 66.5% Non-profit institutions 58.8 42.8 28.3 100.0% 1.8%	Communication	0.7		2.4			0.1%				2.5%	
Venues and facilities 0.0 0.1 0.0 0.9 243.2% - 1.0 1.0 1.0 2.5% 0.1% Transfers and subsidies 1703.5 1729.2 1631.0 1767.7 1.2% 97.1% 1704.0 1710.5 1787.5 0.4% 96.9% Departmental agencies and accounts 398.9 492.2 438.0 601.5 14.7% 27.4% 522.5 520.5 540.8 -3.5% 30.4% Public corporations and private enterprises 1 245.7 1 194.2 1 164.7 1 166.2 -2.2% 67.8% 1 181.5 1 190.0 1 246.7 2.3% 66.5% Non-profit institutions 58.8 42.8 28.3 100.0% 1.8%	,	0.7	0.2	1.0	2.8	62.9%	0.1%	2.9	2.9	3.0	2.5%	0.2%
Transfers and subsidies 1703.5 1729.2 1631.0 1767.7 1.2% 97.1% 1704.0 1710.5 1787.5 0.4% 96.9% Departmental agencies and accounts Public corporations and private enterprises Non-profit institutions 58.8 42.8 28.3100.0% 1.8%	Travel and subsistence	2.3	2.2	0.1	3.8	17.7%	0.1%	3.9	3.9	4.1	2.5%	0.2%
Departmental agencies and accounts 298.9 492.2 438.0 601.5 14.7% 27.4% 522.5 520.5 540.8 -3.5% 30.4% accounts 245.7 1194.2 1164.7 1166.2 -2.2% 67.8% 1181.5 1190.0 1246.7 2.3% 66.5% enterprises 2.3% 2.	Venues and facilities	0.0	0.1	0.0	0.9	243.2%	-	1.0	1.0	1.0	2.5%	0.1%
accounts Public corporations and private enterprises Non-profit institutions 58.8 42.8 28.3 100.0% 1.8%	Transfers and subsidies	1 703.5	1 729.2	1 631.0	1 767.7	1.2%	97.1%	1 704.0	1 710.5	1 787.5	0.4%	96.9%
enterprises Non-profit institutions 58.8 42.8 28.3 100.0% 1.8%		398.9	492.2	438.0	601.5	14.7%	27.4%	522.5	520.5	540.8	-3.5%	30.4%
Households 0.1 0.1 - - -100.0% -		1 245.7	1 194.2	1 164.7	1 166.2	-2.2%	67.8%	1 181.5	1 190.0	1 246.7	2.3%	66.5%
Payments for financial assets 0.0 - <t< td=""><td>Non-profit institutions</td><td>58.8</td><td>42.8</td><td>28.3</td><td>_</td><td>-100.0%</td><td>1.8%</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td></t<>	Non-profit institutions	58.8	42.8	28.3	_	-100.0%	1.8%	_	_	_	_	_
Total 1 755.2 1 778.2 1 678.0 1 825.6 1.3% 100.0% 1 759.2 1 765.1 1 844.6 0.3% 100.0% Proportion of total programme 22.1% 22.0% 23.4% 20.3% - - 19.3% 19.1% 19.1% - -	Households	0.1	0.1	-	_	-100.0%	-	-	_	_	-	-
Proportion of total programme 22.1% 22.0% 23.4% 20.3% 19.3% 19.1% 19.1%	Payments for financial assets	0.0	-	-	1	-100.0%	-	-	-	1	-	-
	Total	1 755.2	1 778.2	1 678.0	1 825.6	1.3%	100.0%	1 759.2	1 765.1	1 844.6	0.3%	100.0%
expenditure to vote expenditure	Proportion of total programme	22.1%	22.0%	23.4%	20.3%	-	-	19.3%	19.1%	19.1%	-	_
	expenditure to vote expenditure											

Table 35.14 Socioeconomic li Details of transfers and subsidies		. i ai aici	p3 exp	Adjusted	Average growth	Average: Expen- diture/ Total		n-term expe		Average growth	Average: Expen- diture/ Total
		lited outcon		appropriation	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19	- 2021/22	2022/23	2023/24	2024/25	2021/22	2024/25
Households											
Social benefits	0.1	0.1			100.0%						
Current Households	0.1 0.1	0.1 0.1	_		-100.0% -100.0%						-
Departmental agencies and accounts		0.1	_	_	-100.0%	_					
Departmental agencies (non-busines											
Current	398.9	492.2	437.2	601.5	14.7%	27.4%	522.5	520.5	540.8	-3.5%	30.4%
Various institutions: Economic	_	33.8	-	-	_	0.5%	_	-	-	-	-
competitiveness and support package: Local manufacturing capacity research and technical support											
Various institutions: Economic competitiveness and support package: Local systems of	-	39.6	-	-	-	0.6%	-	-	-	-	-
innovation for the cold chain technologies project											
Various institutions: Advanced manufacturing technology strategy implementation	0.3	0.9	-	-	-100.0%	-	-	-	-	-	-
Various institutions: Innovative research and development	19.1	24.8	30.4	77.2	59.2%	2.2%	49.6	49.8	52.0	-12.3%	3.2%
Human Sciences Research Council	303.7	324.2	289.3	314.4	1.2%	17.5%	321.1	322.3	336.8	2.3%	18.0%
Various institutions: Local manufacturing capacity research and technical support	57.5	28.7	75.7	81.2	12.2%	3.5%	86.6	82.9	83.6	0.9%	4.6%
Various institutions: Local systems of innovation for the cold chain	-	-	-	15.0	-	0.2%	15.5	15.5	16.2	2.5%	0.9%
technologies project National Research Foundation: Research information management	4.0	8.4	6.2	10.8	39.0%	0.4%	-	-	-	-100.0%	0.1%
system Human Science Research Council:	10.0	12.4	11.3	15.2	15.1%	0.7%	15.6	15.6	16.3	2.3%	0.9%
Develop and monitor science and technology indicators	4.2	10.4	24.2	07.7	474 20/	1.00/	24.2	24.2	25.0	25.00/	2.70/
Various institutions: Environmental innovation Public corporations and private ente	4.3	19.4	24.3	87.7	174.3%	1.9%	34.2	34.3	35.9	-25.8%	2.7%
Public corporations											
Other transfers to public corporation Current	ıs 271.3	223.3	266.2	187.8	-11.5%	13.5%	179.3	183.9	195.4	1.3%	10.4%
Various institutions: Economic	2/1.3	46.2	200.2	107.0	-11.5/6	0.7%		103.5	193.4	1.3/0	10.470
competitiveness and support package: Local manufacturing capacity research and technical support						2,					
Various institutions: Advanced manufacturing technology strategy implementation	41.2	58.4	56.7	45.2	3.1%	2.9%	36.0	38.0	40.0	-4.0%	2.2%
Various institutions: Innovative research and development	-	1.0	-	-	-	-	-	-	-	-	-
Various institutions: Local manufacturing capacity research and technical support	48.3	-	40.6	-	-100.0%	1.3%	-	-	-	-	-
Council for Scientific and Industrial Research: Mining research and development	-	21.1	43.9	63.5	-	1.8%	65.1	65.3	68.3	2.4%	3.6%
Various institutions: Local systems of innovation for the cold chain technologies project	31.6	6.8	29.5	-	-100.0%	1.0%	-	-	-	-	-
Various institutions: Resource- based industries research and development	107.4	52.9	45.9	37.2	-29.8%	3.5%	35.3	37.5	42.1	4.2%	2.1%
Various institutions: Environmental innovation	16.5	9.0	15.7	-	-100.0%	0.6%	-	-	-	-	-
Various institutions: ICT	26.2	28.0	33.9	41.8	16.8%	1.8%	42.9	43.1	45.0	2.5%	2.4%
Public corporations and private ente	rprises										
Private enterprises											
Other transfers to private enterprise	s										

Table 35.14 Socioeconomic Innovation Partnerships expenditure trends and estimates by subprogramme and economic classification

Remillion Part Pa	Details of transfers and subsidies				Adjusted	Average growth rate	Average: Expen- diture/ Total	Medium	ı-term exper	nditure	Average growth rate	Average: Expen- diture/ Total
Name	D. William							2022/22		2024/25		(%)
Various institutions: Economic competitiveness and support package: Losd systems of innovation for the cold chain technologies project 10.7 0.2 0.1 - 100.0% 0.2% - 0	•				2021/22					2024/25	2021/22 -	2024/25
Competitiveness and support package: Local systems of innovation for the cold chain technologies project Various institutions: Advanced manufacturing technology strategy implementation Various institutions: Local manufacturing technology strategy implementation Various institutions: Local manufacturing technology strategy implementation Various institutions: Local systems of innovation for the cold chain technologies project Various institutions: Local systems of innovation for the cold chain technologies project Various institutions: Local systems Various institutions: Local systems Various institutions Various Var				4.9	_	-100.0%		_			-	-
Manufacturing technology strategy implementation Various institutions: Local Capacity research and dechnical support Various institutions: Local systems Capacity research and rechnical support	competitiveness and support package: Local systems of innovation for the cold chain	-	4.9	_	_	_	0.1%	_	-	_	_	_
manufacturing capacity research and technical support Various institutions: Local systems of innovation for the cold chain technologies project Public corporations and private enterprises Public corporations (subsidies on products and	manufacturing technology strategy	10.7	0.2	0.1	_	-100.0%	0.2%	-	-	-	-	-
of innovation for the cold chain technologies project Public corporations and private enterprises Public corporations subsidies on products and production) Current 963.2 965.8 893.6 978.4 0.5% 54.0% 1002.3 1006.1 1051.3 2.4% Council for Scientific and Industrial Research Non-profit institutions Current 58.4 42.7 28.3 - 100.0% 1.8%	manufacturing capacity research	-	-	-	_	-	-	-	-	-	-	-
Public corporations Public corporations (subsidies on products and products are products and products and products and products and products are products and	of innovation for the cold chain	I	-	4.8	_	-	0.1%	-	-	-	-	-
Public corporations (subsidies on products and products are products and products and products and products are products and products are products and products and products and products and products are products and products and products are products and products and products are products and products are products and products and products are products and products and products are products and products are products and products are products and products are products and products are products	Public corporations and private ente	rprises										
Current 963.2 965.8 893.6 978.4 0.5% 54.0% 1002.3 1006.1 1051.3 2.4%	Public corporations											
Separate Separate	Public corporations (subsidies on pro	oducts and p	roduction)									
Research	Current	963.2	965.8	893.6	978.4	0.5%	54.0%	1 002.3	1 006.1	1 051.3	2.4%	56.1%
Current S8.4 42.7 28.3 - -100.0% 1.8% - - - - -		963.2	965.8	893.6	978.4	0.5%	54.0%	1 002.3	1 006.1	1 051.3	2.4%	56.1%
Various institutions: Economic competitiveness and support package: Local systems of innovation for the cold chain technologies project - 17.5	Non-profit institutions											
Competitiveness and support package: Local systems of innovation for the cold chain technologies project	Current	58.4	42.7	28.3	_	-100.0%	1.8%	-	-	-	-	-
research and development Various institutions: Local systems of innovation for the cold chain technologies project Various institutions: Resource- based industries research and development Various institutions: Environmental innovation Various institutions: ICT	competitiveness and support package: Local systems of innovation for the cold chain technologies project	-			_	_		_	-	-	_	_
of innovation for the cold chain technologies project Various institutions: Resource- based industries research and development Various institutions: Environmental innovation Various institutions: ICT		6.7	13.1	4.0	_	-100.0%	0.3%	-	-	-	-	-
based industries research and development 10.9 1.0 2.9 - 100.0% 0.2%	of innovation for the cold chain	40.0	-	17.4	_	-100.0%	0.8%	_	-	-	_	-
Innovation Various institutions: ICT	based industries research and	0.8	0.8	-	_	-100.0%	-	-	-	-	-	-
Higher education institutions Current		10.9	1.0	2.9	_	-100.0%	0.2%	_	-	-	_	_
Current - </td <td>Various institutions: ICT</td> <td>_</td> <td>10.3</td> <td>4.0</td> <td>_</td> <td>-</td> <td>0.2%</td> <td>-</td> <td>_</td> <td>_</td> <td>-</td> <td>-</td>	Various institutions: ICT	_	10.3	4.0	_	-	0.2%	-	_	_	-	-
Various institutions: Innovative research and development Various institutions: Local	Higher education institutions]				
research and development Various institutions: Local	Current	_	-	-	_	-	_	-	-	-	-	_
		-	-	-	_	-	-	_	-	-	-	-
manufacturing capacity research and technical support	manufacturing capacity research	-	-	-	-	-	-	-	-	-	-	-

Personnel information

Table 35.15 Socioeconomic Innovation Partnerships personnel numbers and cost by salary level¹

	est	ber of posts imated for March 2022			Nur	mber and o	cost² of	f perso	onnel post	s filled,	/plann	ed for on f	unded	estab	lishment			Average	Average: Salary
	Number	Number																growth	level/
	of	of posts																rate	Total
	funded	additional	Ac	ctual		Revise	d estir	nate		1	Mediu	m-term ex	pendit	ure es	timate			(%)	(%)
	posts	to the																	
		establishment	202	20/21		20	21/22		20	22/23		20	23/24		20	24/25		2021/22	- 2024/25
Socioeco	onomic Ini	novation			Unit			Unit			Unit			Unit			Unit		
Partners	hips		Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost		
Salary le	vel 62	-	46	42.2	0.9	47	45.0	0.9	46	45.0	1.0	45	44.4	1.0	45	46.4	1.0	-1.7%	100.0%
1-6	6	_	2	0.5	0.3	2	0.6	0.3	2	0.6	0.3	2	0.6	0.3	2	0.6	0.3	-	4.4%
7 – 10	12	-	10	4.7	0.5	9	4.3	0.5	8	3.7	0.5	7	3.2	0.5	7	3.3	0.5	-8.6%	16.7%
11 – 12	25	-	21	20.3	1.0	22	21.8	1.0	22	22.2	1.0	22	21.8	1.0	22	22.7	1.0	-0.4%	48.5%
13 – 16	19	_	13	16.6	1.3	14	18.2	1.3	14	18.5	1.3	14	18.8	1.3	14	19.7	1.4	_	30.5%

^{1.} Data has been provided by the department and may not necessarily reconcile with official government personnel data.

^{2.} Rand million.

Entities

Academy of Science of South Africa

Selected performance indicators

Table 35.16 Academy of Science of South Africa performance indicators by programme/objective/activity and related priority

Indicator	Programme/Objective/Activity	MTSF priority	Audi	ted perform	ance	Estimated performance	•	VITEF target	s
			2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Number of special lectures per year	Liaison	Priority 3: Education, skills and health	5	3	3	5	5	5	5
Number of activities supported with other African academies per year	Liaison	Priority 1: A capable, ethical and developmental state	4	1	1	4	4	4	4
Number of young scientist activities supported per year	Liaison	Priority 3: Education, skills and health	3	1	1	4	4	4	4
Number of strategic partnerships per year	Liaison	Priority 1: A capable, ethical and developmental state	_1	_1	_1	4	4	4	4
Number of proceedings reports, policy-maker booklets and statements per year	Science advisory programme		2	2	2	8	8	8	8
Number of new journal titles on the Scientific Electronic Library Online open-access platform per year	Scholarly publishing programme	Priority 3: Education,	5	7	7	2	2	2	2
Number of South African Journal of Science articles published per year	Scholarly publishing programme	—skiiis and neaith	6	6	6	6	6	6	6
Number of Quest: Science for South Africa magazines produced per year	Scholarly publishing programme		4	4	4	4	4	4	4

^{1.} No historical data available.

Entity overview

The Academy of Science of South Africa was established in terms of the Academy of Science of South Africa Act (2001), as amended, to promote outstanding achievements in all fields of scientific inquiry, recognise excellence, and provide evidence-based scientific advice to government and other stakeholders.

Over the medium term, the academy aims to enhance national capacity to produce and publish research, provide evidence-based policy advice to government, and increase the quality and visibility of South African research publications. This will entail undertaking various studies in the areas of health; education; climate change; energy; the science-policy nexus; biosafety and biosecurity; poverty reduction; gender responsive issues; and, where possible, young people and people living with disabilities.

Expenditure is expected to decrease at an average annual rate of 4.7 per cent, from R43 million in 2021/22 to R37.2 million in 2024/25. This is mainly a result of the academy using digital platforms, which are more cost effective than physical venues, for most of its activities since the onset of the COVID-19 pandemic. Transfers from the department account for an estimated 95.6 per cent (R103.3 million) of the academy's total revenue over the period ahead, also decreasing at an average annual rate of 4.9 per cent, from R41.3 million in 2021/22 to R35.5 million in 2024/25.

Programmes/Objectives/Activities

Table 35.17 Academy of Science of South Africa expenditure trends and estimates by programme/objective/activity

						Average:					Average:
					Average	Expen-				Average	Expen-
					growth	diture/				growth	diture/
				Revised	rate	Total	Mediun	n-term expen	diture	rate	Total
_	Au	dited outcom	e	estimate	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Administration	20.7	22.7	16.8	12.7	-15.1%	38.9%	12.8	12.9	13.4	2.0%	34.5%
Liaison	17.0	13.9	6.9	12.3	-10.2%	25.9%	6.4	6.4	6.7	-18.2%	20.7%
Science advisory programme	6.1	6.0	3.3	6.2	0.5%	11.4%	4.8	4.8	5.0	-7.0%	13.7%
Scholarly publishing	14.3	10.5	8.2	11.8	-6.2%	23.8%	11.5	11.5	12.0	0.5%	31.1%
programme											
Total	58.1	53.2	35.1	43.0	-9.6%	100.0%	35.5	35.6	37.2	-4.7%	100.0%

Statements of financial performance, cash flow and financial position

Table 35.18 Academy of Science of South Africa statements of financial performance, cash flow and financial position

Statement of financial performan		Audited outcon	20	Revised estimate	Average growth rate	Average: Expen- diture/ Total (%)	Mediun	n-term expend estimate	iture	Average growth rate (%)	Average: Expen- diture/ Total
R million	2018/19	2019/20	2020/21	2021/22	(%) 2018/19 -		2022/23	2023/24	2024/25	2021/22 -	(%)
Revenue	2016/19	2019/20	2020/21	2021/22	2010/13 -	2021/22	2022/23	2023/24	2024/23	2021/22-	2024/23
Non-tax revenue	2.7	2.7	1.6	1.6	-14.9%	4.5%	1.7	1.7	1.7	0.2%	4.4%
Sale of goods and services	1.3	0.5	0.5	0.4	-31.3%	1.4%	0.4	0.4	0.4	0.8%	1.1%
other than capital assets of which:	1.3	0.5	0.5	0.4	-31.3%	1.470	0.4	0.4	0.4	0.8%	1.1/0
Administrative fees	0.1	0.1	0.1	0.1	0.9%	0.2%	0.1	0.1	0.1	3.0%	0.3%
Sales by market establishment	1.2	0.4	0.4	0.3	-36.2%	1.1%	0.3	0.3	0.3	_	0.8%
Other non-tax revenue	1.4	2.2	1.1	1.2	-4.4%	3.2%	1.2	1.2	1.2	-	3.3%
Transfers received	53.5	50.5	34.1	41.3	-8.3%	95.5%	33.8	34.0	35.5	-4.9%	95.6%
Total revenue	56.2	53.2	35.6	43.0	-8.6%	100.0%	35.5	35.6	37.2	-4.7%	100.0%
Expenses											
Current expenses	58.1	53.2	35.1	43.0	-9.6%	100.0%	35.5	35.6	37.2	-4.7%	100.0%
Compensation of employees	26.3	28.3	26.9	20.6	-7.8%	55.8%	21.4	22.4	23.4	4.3%	58.5%
Goods and services	31.7	24.7	8.0	22.3	-11.0%	43.9%	14.1	13.2	13.8	-14.9%	41.5%
Depreciation	_	0.2	0.2	_	_	0.2%	-	-	-	_	_
Total expenses	58.1	53.2	35.1	43.0	-9.6%	100.0%	35.5	35.6	37.2	-4.7%	100.0%
Surplus/(Deficit)	(1.9)	_	_	_	-100.0%		_	_	_	_	
Cash flow statement	(=:::)										
Cash flow from operating activities Receipts	(10.8)	2.2	0.7	-	-100.0%	-	-	-	-	-	-
Non-tax receipts	3.4	2.1	1.9	1.6	-21.6%	4.8%	1.7	1.7	1.7	0.2%	4.4%
Sales of goods and services	2.1	0.7	0.9	0.4	-39.9%		0.5	0.5			1.2%
other than capital assets	2.1	0.7	0.9	0.4	-39.9%	2.1%	0.5	0.5	0.5	0.7%	1.2%
Administrative fees	_	0.1	0.1	0.1	_	0.2%	0.1	0.1	0.1	3.0%	0.3%
Sales by market establishment	0.1	0.4	0.7	0.3	39.4%	0.9%	0.3	0.3	0.3	-	0.8%
Other sales	2.0	0.1	0.1	0.0	-72.7%	1.0%	0.0	0.0	0.0	-	0.1%
Other tax receipts	1.4	1.4	1.0	1.2	-4.0%	2.7%	1.2	1.2	1.2	_	3.2%
Transfers received	52.1	50.5	34.7	41.3	-7.4%	95.2%	33.8	34.0	35.5	-4.9%	95.6%
Total receipts	55.5	52.6	36.6	43.0	-8.2%	100.0%	35.5	35.6	37.2	-4.7%	100.0%
Payment											
Current payments	66.3	50.4	36.0	43.0	-13.5%	100.0%	35.5	35.6	37.2	-4.7%	100.0%
Compensation of employees	26.3	28.2	26.9	20.6	-7.8%	54.6%	21.4	22.4	23.4	4.3%	58.5%
Goods and services	39.9	22.2	9.0	22.3	-17.6%	45.4%	14.1	13.2	13.8	-14.9%	41.5%
Total payments	66.3	50.4	36.0	43.0	-13.5%	100.0%	35.5	35.6	37.2	-4.7%	100.0%
Net cash flow from investing activities	(3.6)	(1.0)	(0.9)	(0.7)	-42.0%	100.0%	(0.8)	(0.8)	(0.8)	4.6%	100.0%
Acquisition of property, plant, equipment and intangible	(0.1)	(0.0)	(0.1)	(0.2)	24.4%	10.5%	(0.3)	(0.3)	(0.3)	14.5%	35.3%
assets Other flows from investing activities	(3.5)	(1.0)	(0.8)	(0.5)	-47.7%	89.5%	(0.5)	(0.5)	(0.5)	-	64.7%
Net increase/(decrease) in cash and cash equivalents	(14.4)	1.2	(0.2)	(0.7)	-63.5%	-6.2%	(0.8)	(0.8)	(0.8)	4.6%	-2.1%
Statement of financial position											
Carrying value of assets	0.4	0.2	0.1	0.1	-37.0%	1.0%	0.1	0.1	0.1	7.8%	0.6%
Acquisition of assets	(0.1)	(0.0)	(0.1)	(0.2)	24.4%	100.0%	(0.3)	(0.3)	(0.3)	14.5%	100.0%
Investments	12.2	13.1	13.8	14.0	4.8%	65.3%	14.0	14.0	14.0	-	71.6%
Receivables and prepayments	2.5	2.3	1.3	0.3	-53.5%	7.8%	0.3	0.3	0.3	1.5%	1.3%
Cash and cash equivalents	4.6	5.8	5.6	5.2	4.3%	25.9%	5.2	5.2	5.2	-	26.5%
Total assets	19.6	21.4	20.9	19.5	-0.1%	100.0%	19.6	19.6	19.6	0.1%	100.0%

Table 35.18 Academy of Science of South Africa statements of financial performance, cash flow and financial position

Statement of financial position					Average growth	Average: Expen- diture/				Average growth	Average: Expen- diture/
				Revised	rate	Total	Mediun	n-term expend	iture	rate	Total
_	A	Audited outcon	ne	estimate	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Capital and reserves	7.8	7.8	8.3	8.8	4.4%	40.2%	8.8	8.8	8.8	1	45.2%
Capital reserve fund	8.6	8.1	9.5	8.0	-2.5%	42.1%	8.0	8.0	8.0	_	40.9%
Trade and other payables	1.9	1.8	0.2	0.2	-54.5%	5.1%	0.2	0.2	0.2	_	0.9%
Provisions	1.3	3.8	2.8	2.5	24.7%	12.7%	2.5	2.5	2.5	0.4%	13.0%
Total equity and liabilities	19.6	21.4	20.9	19.5	-0.1%	100.0%	19.6	19.6	19.6	0.1%	100.0%

Table 35.19 Academy of Science of South Africa personnel numbers and cost by salary level

	Numl	per of posts				•												Average	
	esti	mated for																growth	Average:
	31 N	larch 2022			Nu	mber and c	ost1 of p	personn	el posts fille	ed/plai	nned	for on fund	ed estak	lishme	nt			rate of	Salary
	Number	Number																person-	level/
	of	of																nel posts	Total
	funded	posts	Ac	tual		Revise	d estima	ate			Med	ium-term e	xpendit	ure esti	mate			(%)	(%)
	posts	on approved		2020/21															
		establishment	202				21/22		202	2/23		20	23/24		202	24/25		2021/22 -	2024/25
					Unit			Unit			Unit			Unit			Unit		
Academy of S	Science of	South Africa	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost		
Salary level	30	30	41	26.9	0.7	30	20.6	0.7	30	21.4	0.7	30	22.4	0.7	30	23.4	0.8	4.3%	100.0%
1-6	4	4	5	0.9	0.2	4	0.8	0.2	4	0.9	0.2	4	0.9	0.2	4	1.0	0.2	4.3%	4.1%
7 – 10	20	20	27	14.2	0.5	20	11.2	0.6	20	11.6	0.6	20	12.1	0.6	20	12.7	0.6	4.3%	54.3%
11 – 12	2	2	4	3.8	0.9	2	2.0	1.0	2	2.1	1.1	2	2.2	1.1	2	2.3	1.2	4.3%	9.8%
13 – 16	4	4	5	8.1	1.6	4	6.6	1.6	4	6.8	1.7	4	7.1	1.8	4	7.4	1.9	4.3%	31.8%

Rand million.

Council for Scientific and Industrial Research

Selected performance indicators

Table 35.20 Council for Scientific and Industrial Research performance indicators by programme/objective/activity and related priority

Indicator	Programme/Objective/Activity	MTSF priority	Audit	ed performa	ance	Estimated performance	N	ATEF targets	5
			2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Number of journal articles published per year	Science, engineering and technology operating units and centres	Priority 3: Education, skills and	310	300	310	315	320	320	320
Number of conference papers delivered per year	Science, engineering and technology operating units and centres	health	335	330	335	337	338	340	342
Number of new technology demonstrators per year	Science, engineering and technology operating units and centres	Priority 2: Economic	50	66	63	63	64	69	69
Amount of contract research and development income per year	Science, engineering and technology operating units and centres	job creation	R1.7bn	R2.2bn	R2.3bn	R2.3bn	R2.4bn	R2.5bn	R2.6bn
Number of science, engineering and technology staff per year	Science, engineering and technology operating units and centres		1 860	1 619	1 410	1 497	1 572	1 651	1 733
Percentage of black science, engineering and technology staff per year	Science, engineering and technology operating units and centres	Priority 3: Education, skills and	62% (1 452/ 2 342)	62% (1 452/ 2 342)	63% (1 465/ 2 342)	66%	66%	67%	67%
Number of science, engineering and technology staff with doctorates per year	Science, engineering and technology operating units and centres	health	369	356	310	344	369	396	424
Number of new patents granted per year	Science, engineering and technology operating units and centres		15	13	10	8	16	18	19

Entity overview

The Council for Scientific and Industrial Research was established in 1945 and is governed in terms of the Scientific Research Council Act (1988). The council fosters industrial and scientific development in the national interest through multidisciplinary research and technological innovation to improve the ability of the state to efficiently deliver basic services in fields such as health, education, social security, energy and shelter to all South Africans. Through these activities, it aims to reduce inequality.

Over the medium term, the council will focus on conducting high-quality and relevant research, pursuing technological innovation to foster industrial and scientific development, and furthering industrial development opportunities in fields such as pharmaceutical innovation and agro-processing.

The council's ability to generate revenue is directly related to its ability to attract and retain the requisite expertise to deliver favourable research outcomes. Competitive remuneration is a vital enabling factor for the retention of critical skills. As such, spending on compensation of employees accounts for an estimated 54.1 per cent (R5.9 billion) of the council's total expenditure, increasing at an average annual rate of 7 per cent, from R1.7 billion in 2021/22 to R2 billion in 2024/25. To retain a high calibre of staff and strengthen its value proposition, the council also offers non-monetary employee benefits such as training and exchange programmes.

The council generates revenue mainly through the services it renders, such as contract research and development, income from intellectual property, proceeds from technology transfer, and royalties. Transfers from the department account for an estimated 21.6 per cent (R2.3 billion) of its projected total revenue of R10.9 billion over the MTEF period.

The council expects to post a net profit of R2 million in 2022/23, which it anticipates increasing to R3 million by the end of the MTEF period. These profits will be invested in resources and capabilities such as property, plant and equipment.

Programmes/Objectives/Activities

Table 35.21 Council for Scientific and Industrial Research expenditure trends and estimates by programme/objective/activity

				Revised	Average growth rate	Average: Expen- diture/ Total	Mediur	n-term expen	nditure	Average growth rate	Average: Expen- diture/ Total
	Au	dited outcom	e	estimate	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Administration	566.0	602.3	525.3	539.6	-1.6%	20.4%	598.5	625.8	651.4	6.5%	17.3%
Science, engineering and technology operating units and centres	2 055.8	2 156.7	1 989.1	2 588.9	8.0%	79.6%	2 868.4	2 987.0	3 116.8	6.4%	82.7%
Total	2 621.7	2 759.0	2 514.4	3 128.5	6.1%	100.0%	3 466.9	3 612.8	3 768.2	6.4%	100.0%

Statements of financial performance, cash flow and financial position

Table 35.22 Council for Scientific and Industrial Research statements of financial performance, cash flow and financial position

Statement of financial perform	tement of financial performance					Average: Expen-				Average	Average: Expen-
					growth	diture/				growth	diture/
	,	Audited outco	ma	Revised estimate	rate (%)	Total (%)	Medium	n-term expen estimate	aiture	rate (%)	Total (%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -		2022/23	2023/24	2024/25	2021/22 -	
Revenue	2020, 20			,	2020, 25						
Non-tax revenue	1 667.2	1 907.7	1 783.0	2 306.9	11.4%	68.8%	2 727.6	2 874.7	2 993.3	9.1%	78.4%
Sale of goods and services other than capital assets of which:	1 615.9	1 838.5	1 741.0	2 142.3	9.9%	65.9%	2 561.2	2 705.6	2 818.4	9.6%	73.5%
Sales by market establishment	1 615.9	1 838.5	1 741.0	2 142.3	9.9%	65.9%	2 561.2	2 705.6	2 818.4	9.6%	73.5%
Other non-tax revenue	51.3	69.2	42.0	164.6	47.5%	2.9%	166.3	169.1	174.9	2.0%	4.9%
Transfers received	962.7	920.2	827.6	725.5	-9.0%	31.2%	741.6	744.5	777.9	2.4%	21.6%
Total revenue	2 629.9	2 827.9	2 610.6	3 032.4	4.9%	100.0%	3 469.2	3 619.1	3 771.2	7.5%	100.0%
Expenses											
Current expenses	2 621.7	2 759.0	2 514.4	3 000.9	4.6%	99.0%	3 336.9	3 480.8	3 631.1	6.6%	96.2%
Compensation of employees	1 585.9	1 453.7	1 434.5	1 672.0	1.8%	55.9%	1 878.2	1 960.9	2 047.2	7.0%	54.1%
Goods and services	970.7	1 241.7	1 026.2	1 156.5	6.0%	40.0%	1 286.0	1 343.9	1 404.4	6.7%	37.1%
Depreciation	65.1	62.1	52.5	170.9	37.9%	3.1%	172.6	176.1	179.6	1.7%	5.0%
Interest, dividends and rent on land	-	1.5	1.1	1.5	-	-	_	-	-	-100.0%	-
Transfers and subsidies	_	-	_	127.6	_	1.0%	130.0	132.0	137.1	2.4%	3.8%
Total expenses	2 621.7	2 759.0	2 514.4	3 128.5	6.1%	100.0%	3 466.9	3 612.8	3 768.2	6.4%	100.0%
Surplus/(Deficit)	8.2	68.9	96.3	(96.1)	-327.1%		2.3	6.3	3.0	-131.5%	
Cash flow statement											
Cash flow from operating activities Receipts	181.3	56.3	220.2	73.1	-26.1%	100.0%	174.6	206.5	207.9	41.7%	100.0%

Table 35.22 Council for Scientific and Industrial Research statements of financial performance, cash flow and financial position

Table 35.22 Council for S		ia iliaastii	ui iteseuit	in stateme			Torritanice,	cusii iiow	una mian	ciai posic	
Statement of financial perform	ance				Average	Average: Expen-				Average	Average: Expen-
				Revised	growth	diture/ Total	Madium	torm ovnon	dituro	growth	diture/ Total
		Audited outco	mo	estimate	rate (%)	(%)	ivieaturi	n-term expend estimate	ulture	rate (%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -		2022/23	2023/24	2024/25	2021/22	
Tax receipts			_	127.6		1.1%	130.0	132.0	137.1	2.4%	3.8%
Non-tax receipts	1 886.2	1 970.4	1 945.7	2 177.9	4.9%	72.4%	2 597.5	2 742.6	2 856.2	9.5%	74.6%
Sales of goods and services	1 836.6	1 919.0	1 903.5	2 142.3	5.3%	70.8%	2 561.2	2 705.6	2 818.4	9.6%	73.5%
other than capital assets	1 830.0	1 313.0	1 303.3	2 142.3	3.370	70.870	2 301.2	2 703.0	2 010.4	3.070	73.370
Sales by market	1 836.6	1 919.0	1 903.5	2 142.3	5.3%	70.8%	2 561.2	2 705.6	2 818.4	9.6%	73.5%
establishment											
Other tax receipts	49.7	51.4	42.2	35.6	-10.5%	1.6%	36.3	37.0	37.8	2.0%	1.1%
Transfers received	760.1	758.1	670.0	725.5	-1.5%	26.5%	741.6	744.5	777.9	2.4%	21.6%
Financial transactions in assets and liabilities	1.1	-	-	_	-100.0%	-	-	-	-	-	_
Total receipts	2 647.4	2 728.5	2 615.8	3 031.0	4.6%	100.0%	3 469.2	3 619.1	3 771.2	7.6%	100.0%
Payment											
Current payments	2 466.1	2 672.2	2 395.5	2 830.3	4.7%	98.9%	3 164.6	3 280.6	3 426.2	6.6%	96.0%
Compensation of employees	1 586.8	1 453.7	1 370.5	1 672.0	1.8%	58.1%	1 878.2	1 960.9	2 047.2	7.0%	57.1%
Goods and services	879.3	1 218.3	1 024.1	1 158.3	9.6%	40.8%	1 286.3	1 319.7	1 379.1	6.0%	38.9%
Interest and rent on land	-	0.1	0.9		-	-	_	_	_	-	-
Transfers and subsidies	_	_	-	127.6		1.1%	130.0	132.0	137.1	2.4%	4.0%
Total payments	2 466.1	2 672.2	2 395.5	2 957.9	6.2%	100.0%	3 294.6	3 412.6	3 563.4	6.4%	100.0%
Net cash flow from investing	(40.4)	(43.3)	(36.2)	(122.3)	44.7%	100.0%	(120.1)	(118.8)	(118.6)	-1.0%	100.0%
activities	(40.4)	(43.3)	(30.2)	(122.5)	44.770	100.070	(120.1)	(110.0)	(110.0)	-1.070	100.070
Acquisition of property,	(40.2)	(44.0)	(36.2)	(122.3)	44.9%	100.3%	(120.1)	(118.8)	(118.6)	-1.0%	100.0%
plant, equipment and											
intangible assets											
Proceeds from the sale of property, plant, equipment	1.8	0.8	-	-	-100.0%	-1.6%	_	-	-	-	_
and intangible assets											
Other flows from investing	(2.1)	_	_	_	-100.0%	1.3%	_	_	_	_	_
activities	(2.1)				200.070	21070					
Net cash flow from financing	_	(0.7)	(2.7)	-	-	-	_	-	-	-	-
activities											
Other flows from financing activities	-	(0.7)	(2.7)	-	-	-	-	-	-	-	_
Net increase/(decrease) in	140.9	12.4	181.3	(49.2)	-170.4%	2.9%	54.4	87.7	89.3	-222.0%	1.2%
cash and cash equivalents	140.5		101.5	(43.2)	170.470	2.5%			03.3		11270
Statement of financial position											
Carrying value of assets	758.7	774.0	753.7	705.2	-2.4%	30.9%	652.6	596.5	418.1	-16.0%	24.7%
Acquisition of assets	(40.2)	(44.0)	(36.2)	(122.3)	44.9%	100.0%	(120.1)	(118.8)	(118.6)	-1.0%	100.0%
Investments	5.1	2.4	2.4	2.4	-22.2%	0.1%	2.4	2.4	2.4	_	0.1%
Inventory	124.8	115.2	143.2	114.8	-2.7%	5.1%	99.1	103.5	108.2	-1.9%	4.4%
Receivables and	196.0	312.0	293.5	344.3	20.7%	11.8%	396.3	414.0	432.8	7.9%	16.4%
prepayments											
Cash and cash equivalents	1 241.5	1 248.8	1 435.1	1 125.9	-3.2%	52.0%	1 246.2	1 344.4	1 573.7	11.8%	54.5%
Total assets	2 326.0	2 452.5	2 628.0	2 292.6	-0.5%	100.0%	2 396.6	2 460.9	2 535.2	3.4%	100.0%
Accumulated surplus/(deficit)	1 002.5	1 071.4	1 167.6	1 063.4	2.0%	44.4%	1 065.7	1 072.0	1 084.9	0.7%	44.3%
Finance lease	-	13.9	8.8	8.0	_	0.3%	7.2	6.4	5.8	-10.0%	0.3%
Trade and other payables	1 301.4	1 343.0	1 438.6	1 208.2	-2.4%	54.5%	1 310.6	1 369.2	1 431.1	5.8%	54.9%
Provisions	22.1	24.3	12.9	13.0	-16.2%	0.7%	13.1	13.3	13.4	1.0%	0.5%
Total equity and liabilities	2 326.0	2 452.5	2 628.0	2 292.6	-0.5%	100.0%	2 396.6	2 460.9	2 535.2	3.4%	100.0%

Table 35.23 Council for Scientific and Industrial Research personnel numbers and cost by salary level

		oosts estimated for																Average growth	Average:
	31 Ma	rch 2022			Nun	nber and c	ost1 of per	rsonnel	posts fille	d/planned	for on	funded e	stablishme	ent				rate of	Salary
	Number	Number																personnel	level/
	of	of																posts	Total
	funded	posts		Actual		Revis	sed estima	te			Medi	um-term e	expenditur	re estin	nate			(%)	(%)
	posts	on approved																	
		establishment		2020/21 2021/22 2022/23 2023/24 2024/25								2021/22 -	2024/25						
Council for Scie	ncil for Scientific and Industrial				Unit			Unit			Unit			Unit			Unit		
Research			Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost		
Salary level	2 330	2 330	2 336	1 434.5	0.6	2 330	1 672.0	0.7	2 447	1 878.2	0.8	2 570	1 960.9	0.8	2 697	2 047.2	0.8	7.0%	100.0%
1-6	292	292	354	37.6	0.1	292	46.0	0.2	310	51.7	0.2	322	54.0	0.2	337	56.4	0.2	7.0%	2.8%
7 – 10	1 201	1 201	1 171	494.2	0.4	1 201	588.3	0.5	1 262	660.8	0.5	1 327	689.9	0.5	1 393	720.2	0.5	7.0%	35.2%
11 – 12	455	455	431	359.2	0.8	455	420.7	0.9	476	472.5	1.0	501	493.3	1.0	522	515.0	1.0	7.0%	25.2%
13 – 16	357	357	353	467.2	1.3	357	533.0	1.5	374	598.8	1.6	393	625.1	1.6	417	652.6	1.6	7.0%	31.9%
17 – 22	25	25	27	76.4	2.8	25	84.0	3.4	25	94.4	3.8	27	98.5	3.6	28	102.9	3.7	7.0%	5.0%

^{1.} Rand million.

Human Sciences Research Council

Selected performance indicators

Table 35.24 Human Sciences Research Council performance indicators by programme/objective/activity and related priority

Indicator	Programme/Objective/Activity	MTSF priority	Audit	ed perforr	nance	Estimated	N	/ITEF target	s
			2012/12	2242/22	2222/24	performance	2000/20	2022/24	2224/27
			2018/19	-	2020/21	2021/22	2022/23	2023/24	2024/25
Number of Human Sciences Research Council research articles that achieved a citation count of at least 10 within 5 years of initial publication per	Administration	Priority 1: A capable, ethical and developmental	171	313	179	160	165	170	170
year		state							
Number of curated datasets downloaded for secondary use per year	Administration	state	661	608	556	546	574	603	605
Number of historically disadvantaged institutions with which the Human Sciences Research Council has actively collaborated per year	Administration	Priority 3: Education, skills	_1	_1	6	4	6	7	7
Percentage of researchers (excluding trainees) with PhDs per year	Administration	and health	_1	_1	78%	76%	77%	78%	78%
Number of PhD trainees per year	Administration	=	54	47	31	27	28	30	32
Number of peer- reviewed journal articles published per Human Sciences Research Council researcher per year	Research, development and innovation		1.06	0.78	1.17	1	1.1	1.1	1.1
Number of scholarly book chapters published by council researchers per year	Research, development and innovation	Priority 1: A capable, ethical	93	86	118	47	48	49	50
Number of policy briefs and/or evidence reviews completed and published per year	Research, development and innovation	and developmental state	13	12	12	19	12	12	13
Number of community innovations supported or enabled by Human Sciences Research Council research per year	Research, development and innovation		_1	_1	1	1	1	1	1
Number of incoming international exchange visits or fellowships active per year	Research, development and innovation	Priority 7: A better Africa and world	9	7	4	4	6	8	8

^{1.} No historical data available.

Entity overview

The Human Sciences Research Council was established in 1968 to undertake, promote and coordinate research

in the human and social sciences. The council is mandated to initiate, undertake and foster strategic, basic and applied research in human sciences; and address developmental challenges by gathering, analysing and publishing relevant data, especially through projects linked to collaborative programmes oriented towards the public sector. The council's research outputs are widely disseminated to support policy development at all levels of government. As such, over the medium term, the council will continue to focus on producing research that serves the public; contributing to good governance and public service delivery; helping to address the challenges of poverty and inequality; facilitating inclusive development; and building the capacity of scholars and researchers.

As a research institute, human capital plays a central role in the council's work. As such, spending on compensation of employees accounts for an estimated 49.6 per cent (R893.5 million) of the council's budget, increasing at an average annual rate of 4.4 per cent, from R273.4 million in 2021/22 to R311 million in 2024/25. The council is set to receive 56.6 per cent (R980.2 million) of its revenue over the period ahead through transfers from the department, decreasing at an average annual rate of 1.5 per cent, from R352.4 million in 2021/22 to R336.8 million in 2024/25. The remaining revenue is generated by research contracts and grants from national and international agencies, government departments and private sector foundations.

Programmes/Objectives/Activities

Table 35.25 Human Sciences Research Council expenditure trends and estimates by programme/objective/activity

					_	Average:					Average:
					Average	Expen-				Average	Expen-
					growth	diture/				growth	diture/
				Revised	rate	Total	Mediun	n-term expen	diture	rate	Total
	Au	dited outcom	е	estimate	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Administration	188.0	124.5	117.8	281.0	14.3%	36.0%	259.3	271.3	275.5	-0.7%	46.2%
Research and development	275.7	-	_	_	-100.0%	14.2%	_	-	-	_	-
Africa Institute of South	21.8	_	-	_	-100.0%	1.1%	_	_	-	_	-
Africa											
Research, development and	_	296.8	271.7	339.2	_	48.7%	299.7	299.6	331.6	-0.7%	53.8%
innovation											
Total	485.5	421.3	389.5	620.2	8.5%	100.0%	558.9	570.9	607.2	-0.7%	100.0%

Statements of financial performance, cash flow and financial position

Table 35.26 Human Sciences Research Council statements of financial performance, cash flow and financial position

Statement of financial perform	ance				-	Average:			-		Average:
					Average	Expen-				Average	Expen-
					growth	diture/				growth	diture/
				Revised	rate	Total	Mediun	n-term expend	diture	rate	Total
_		Audited outco	me	estimate	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Revenue											
Non-tax revenue	220.9	160.7	160.3	267.8	6.6%	41.2%	237.9	248.6	270.3	0.3%	43.4%
Sale of goods and services	180.7	119.7	123.8	236.0	9.3%	33.2%	204.7	214.0	235.1	-0.1%	37.7%
other than capital assets											
of which:											
Sales by market	180.6	119.7	118.8	230.8	8.5%	32.7%	199.2	208.2	229.2	-0.2%	36.8%
establishment											
Other sales	0.0	_	5.0	5.3	407.1%	0.5%	5.5	5.8	5.9	3.8%	1.0%
Other non-tax revenue	40.2	41.0	36.5	31.7	-7.6%	7.9%	33.1	34.6	35.3	3.6%	5.7%
Transfers received	264.1	272.9	251.6	352.4	10.1%	58.8%	321.1	322.3	336.8	-1.5%	56.6%
Total revenue	485.0	433.6	411.9	620.2	8.5%	100.0%	558.9	570.9	607.2	-0.7%	100.0%
Expenses											
Current expenses	485.5	421.3	344.6	574.2	5.7%	95.3%	510.5	521.8	557.1	-1.0%	91.8%
Compensation of employees	293.2	291.8	231.6	273.4	-2.3%	58.3%	284.9	297.6	311.0	4.4%	49.6%
Goods and services	176.7	118.7	103.2	284.0	17.1%	34.2%	207.9	205.3	226.9	-7.2%	39.1%
Depreciation	14.4	9.4	9.3	15.4	2.3%	2.5%	16.2	17.3	17.6	4.7%	2.8%
Interest, dividends and rent	1.3	1.4	0.5	1.4	5.0%	0.2%	1.5	1.6	1.6	4.3%	0.3%
on land											
Transfers and subsidies	-	-	44.9	46.0	-	4.7%	48.4	49.1	50.1	2.9%	8.2%
Total expenses	485.5	421.3	389.5	620.2	8.5%	100.0%	558.9	570.9	607.2	-0.7%	100.0%
Surplus/(Deficit)	(0.6)	12.3	22.5	-	-100.0%		_	-	_	_	

Table 35.26 Human Sciences Research Council statements of financial performance, cash flow and financial position

Cash flow statement						Average:					Average:
					Average	Expen-				Average	Expen-
					growth	diture/				growth	diture/
		Audited outco	mo	Revised estimate	rate (%)	Total (%)	Mediun	n-term expend estimate	aiture	rate (%)	Total
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -		2022/23	2023/24	2024/25	2021/22 -	(%) 2024/25
Cash flow from operating	108.6	108.6	60.2	61.4	-17.3%	100.0%	27.6	77.1	39.7	-13.6%	100.0%
activities	100.0	108.0	00.2	01.4	-17.5/0	100.0%	27.0	//.1	33.7	-13.0%	100.0%
Receipts											
Non-tax receipts	172.2	322.4	327.1	344.8	26.1%	45.2%	379.0	408.3	390.4	4.2%	54.2%
Sales of goods and services	134.7	314.1	320.6	336.1	35.6%	42.8%	370.3	399.2	381.1	4.3%	52.9%
other than capital assets											
Sales by market	134.7	119.7	118.8	230.8	19.7%	23.3%	246.1	257.2	258.1	3.8%	35.3%
establishment Other sales											
Other sales	-	194.4	201.7	105.3	_	19.4%	124.2	142.0	123.0	5.3%	17.6%
Other tax receipts	37.5	8.3	6.5	8.7	-38.5%	2.4%	8.7	9.1	9.3	2.1%	1.3%
Transfers received	325.7	313.9	319.2	314.4	-1.2%	49.4%	321.1	322.3	328.8	1.5%	45.8%
Financial transactions in assets and liabilities	138.5	_	-	-	-100.0%	5.4%	_	-	-	-	-
Total receipts	626.2	626.2	CAC 2	659.2	1.2%	100.0%	700 1	720.6	710.2	2.9%	100.00/
Payment	636.3	636.3	646.3	033.2	1.2/0	100.0%	700.1	730.6	719.2	2.5/0	100.0%
Current payments	488.1	508.8	565.7	551.7	4.2%	94.4%	624.2	603.0	634.4	4.8%	92.7%
Compensation of employees	285.6	285.6	252.0	273.4	-1.5%	49.2%	279.2	280.7	282.2	1.1%	42.9%
Goods and services	202.5	283.0	313.7	278.3	11.2%	45.2%	344.9	322.2	352.3	8.2%	42.5%
Transfers and subsidies	39.6	18.9	20.4	46.1	5.2%	5.6%	48.3	50.5	45.1	-0.8%	
Total payments	527.7	527.7	586.1	597.8	4.2%	100.0%	672.5	653.5	679.5	4.4%	7.3% 100.0%
Net cash flow from investing				337.0		100.0%					100.0%
activities	(2.0)	(2.0)	(7.2)	_	-100.0%	-	(7.8)	(8.1)	(8.1)	-	_
Acquisition of property,	(2.0)	(2.0)	(7.2)	-	-100.0%	_	(7.8)	(8.1)	(8.1)	-	_
plant, equipment and	(- /	(- /	,				(- /	ζ- ,	(-)		
intangible assets											
Proceeds from the sale of	0.0	0.0	-	-	-100.0%	-	_	_	-	-	-
property, plant, equipment and intangible assets											
Net increase/(decrease) in	100.0	106.6	F2 0	61.4	16 00/	17 70/	19.8	60.1	21.6	-19.9%	7 70/
cash and cash equivalents	106.6	106.6	53.0	61.4	-16.8%	17.7%	19.8	69.1	31.6	-19.9%	7.7%
·											
Statement of financial											
position											
Carrying value of assets	425.7	414.5	274.1	290.7	-11.9%	63.7%	299.2	305.1	311.0	2.3%	61.2%
Acquisition of assets	(2.0)	(2.0)	(7.2)	_	-100.0%	_	(7.8)	(8.1)	(8.1)	_	_
Inventory	4.9	4.8	3.4	3.5	-10.6%	0.7%	3.5	3.0	3.1	-3.8%	0.7%
Receivables and	64.5	39.4	84.4	38.3	-16.0%	10.3%	47.9	36.5	34.7	-3.3%	8.0%
prepayments											
Cash and cash equivalents	44.8	151.4	204.4	154.0	50.9%	25.2%	164.0	132.0	145.0	-2.0%	30.1%
Taxation			1.2	0.1	_	0.1%	0.1	0.1	0.1	26.0%	
Total assets	539.9	610.2	567.5	486.5	-3.4%	100.0%	514.7	476.7	493.9	0.5%	100.0%
Accumulated surplus/(deficit)	59.2	70.6	93.0	35.2	-15.9%	11.5%	37.5	33.4	38.5	3.0%	7.3%
Capital and reserves	392.8	392.8	255.1	255.1	-13.4%	58.6%	255.1	255.1	255.1	_	51.8%
Deferred income	36.2	90.9	158.8	145.0	58.9%	19.8%	167.0	132.0	143.2	-0.4%	29.7%
Trade and other payables	43.4	28.5	41.4	32.9	-8.8%	6.7%	36.0	36.7	37.2	4.2%	7.2%
Taxation	5.9	7.6	-	-	-100.0%	0.6%	-	-	-	-	-
Provisions	2.5	17.4	16.7	15.6	84.1%	2.4%	16.4	16.8	17.1	3.0%	3.3%
Derivatives financial	-	2.3	2.4	2.6	-	0.3%	2.6	2.6	2.7	1.7%	0.5%
instruments Total equity and liabilities	F30.0	640.3	FC7 F	400 5	3.407	100.004	F44.7	4707	403.0	0.50/	100.007
rotal equity and nabilities	539.9	610.2	567.5	486.5	-3.4%	100.0%	514.7	476.7	493.9	0.5%	100.0%

Table 35.27 Human Sciences Research Council personnel numbers and cost by salary level

	Numl	per of posts										_						Average	
	esti	mated for																growth	Average:
_	31 N	larch 2022			Numb	er and cos	t¹ of per	sonne	l posts fille	d/plani	ned fo	or on funde	d estab	lishm	ent			rate of	Salary
	Number	Number																personnel	level/
	of	of																posts	Total
	funded	posts		Actual		Revised	d estima	ite		r	Mediu	ım-term ex	penditu	ıre es	timate			(%)	(%)
	posts	on approved																	
-		establishment	2	2020/21 2021/22					20	22/23		202	23/24		202	24/25		2021/22 - 20	24/25
				Unit Unit							Unit			Unit			Unit		
Human Science	ces Resear	ch Council	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost		
Salary level	420	420	420	231.6	0.6	420	273.4	0.7	420	284.9	0.7	420	297.6	0.7	420	311.0	0.7	4.4%	100.0%
1-6	128	128	128	22.3	0.2	128	27.3	0.2	128	27.3	0.2	128	30.1	0.2	128	34.2	0.3	7.9%	10.2%
7 – 10	216	216	216	121.6	0.6	216	135.9	0.6	216	142.0	0.7	216	146.3	0.7	216	152.9	0.7	4.0%	49.5%
11 – 12	50	50	50	51.0	1.0	50	59.2	1.2	50	62.6	1.3	50	66.3	1.3	50	67.5	1.4	4.5%	21.9%
13 – 16	26	26	26	36.7	1.4	26	51.0	2.0	26	53.0	2.0	26	54.8	2.1	26	56.4	2.2	3.4%	18.4%

^{1.} Rand million.

National Research Foundation

Selected performance indicators

Table 35.28 National Research Foundation performance indicators by programme/objective/activity and related priority

Indicator	Programme/Objective/Activity	MTSF priority	Audi	ted perform	ance	Estimated performance	ı	/ITEF targets	i
			2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Number of grants awarded	Science engagement		_1	_1	_1	55	120	130	140
per year that are directed									
towards science									
engagement									
Number of science	Science engagement		15	19	9	21	22	22	22
engagement interventions									
implemented by research									
and science engagement									
infrastructure facilities		Priority 3:							
across the national system		Education, skills and							
of innovation per year		health							
Number of postgraduate	Research and innovation		12 732	11 167	11 093	7 414	6 308	5 554	5 466
students funded by the	support and advancement								
National Research									
Foundation per year									
Number of researchers	Research and innovation		5 441	3 985	3 000	4 521	4 118	4 119	4 119
funded by the National	support and advancement								
Research Foundation per									
year									
Foreign income derived	National research	Priority 2: Economic	_1	_1	R61.8m	R63.8m	R171.7m	R248.3m	R329.9m
from the National Research	infrastructure platforms	transformation and							
Foundation's activities or		job creation							
operations									
Number of patient doses	National research	Priority 3:	_1	_1	147 000	167 500	225 000	300 000	350 000
generated from	infrastructure platforms	Education, skills and							
radioisotopes produced by		health							
iThemba Labs per year									
Number of active	National research		_1	_1	_1	10	8	10	8
intellectual property	infrastructure platforms								
products per year	<u> </u>	Priority 2: Economic							
Number of technical/ policy	National research	transformation and	_1	_1	_1	30	28	29	28
briefs produced by the	infrastructure platforms	job creation							
National Research									
Foundation per year									

^{1.} No historical data available.

Entity overview

The National Research Foundation was established in terms of the National Research Foundation Act (1998), as amended. It is mandated to fund research, develop human resources, promote indigenous knowledge, and provide research facilities to enable knowledge creation, innovation and development in all fields of science and technology.

Over the MTEF period, the foundation will focus on implementing its 10-year strategy: Vision 2030. This entails interventions to catalyse transformation in the science and technology system through measures such as creating grant funding instruments that focus on women and black researchers, and fast-tracking black women doctoral graduates towards obtaining their foundation rating.

To procure specialised equipment at iThemba Labs, the Square Kilometre Array and the extension of the MeerKAT telescope, capital expenditure of R5 billion over the MTEF period is allocated in the *National Research*

Infrastructure Platforms programme.

The foundation receives funding primarily through a parliamentary grant, which accounts for an estimated 89 per cent (R12.4 billion) of its projected revenue over the MTEF period. Other revenue is derived through transfers from the department, contract funding for specific projects and programmes from other government departments and entities, and income generated by sales and interest earned. Transfers from the department are expected to decrease at an average annual rate of 3.6 per cent, from R4.5 billion in 2021/22 to R4.1 billion in 2024/25, due to the completion of phase 1 of the Square Kilometre Array.

Programmes/Objectives/Activities

Table 35.29 National Research Foundation expenditure trends and estimates by programme/objective/activity

						Average:					Average:
					Average	Expen-				Average	Expen-
					growth	diture/				growth	diture/
				Revised	rate	Total	Mediun	n-term expen	diture	rate	Total
	Au	dited outcom	e	estimate	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Administration	101.3	100.9	90.5	135.0	10.0%	2.6%	153.3	152.6	158.8	5.6%	3.3%
Science engagement	119.7	121.0	110.4	112.7	-2.0%	2.9%	116.6	116.7	121.5	2.5%	2.6%
Research and innovation	2 638.3	2 471.3	2 225.8	2 634.4	-	61.1%	2 500.3	2 736.0	2 650.1	0.2%	57.6%
support and advancement											
National research	1 251.4	1 296.9	1 233.9	1 713.8	11.1%	33.5%	1 533.2	1 671.8	1 763.2	1.0%	36.6%
infrastructure platforms											
Total	4 110.7	3 990.2	3 660.7	4 595.9	3.8%	100.0%	4 303.4	4 677.0	4 693.6	0.7%	100.0%

Statements of financial performance, cash flow and financial position

Table 35.30 National Research Foundation statements of financial performance, cash flow and financial position

Statement of financial perform	ance				Average growth	Average: Expen- diture/				Average growth	Average: Expen- diture/
				Revised	rate	Total	Mediun	n-term expen	diture	rate	Total
B - 485		Audited outco		estimate	(%)	(%)	2022/22	estimate	2024/25	(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Revenue	600.7	447.7	407.7	412.1	13 10/	11 F0/	F00 F	FF2 F	C00 4	12 00/	11 00/
Non-tax revenue	608.7	447.7	407.7	413.1	-12.1%	11.5%	509.5	552.5	608.4	13.8%	11.0%
Sale of goods and services	60.4	82.1	69.8	71.7	5.9%	1.7%	124.4	159.2	231.9	47.9%	3.1%
other than capital assets											
of which:	F7.4	02.4	60.0	71.7	7.00/	4 70/	124.4	150.3	224.0	47.00/	2.40/
Sales by market	57.1	82.1	69.8	71.7	7.9%	1.7%	124.4	159.2	231.9	47.9%	3.1%
establishment	2.4				100.00/						
Other sales	3.4 548.3	265.6	227.0	241.4	-100.0%	- 0.004	205.4	202.2	276.5	2 20/	7.9%
Other non-tax revenue Transfers received	3 504.8	365.6 3 496.5	337.9 3 157.1	341.4 4 517.4	-14.6% 8.8%	9.8% 88.5%	385.1 4 320.7	393.3 4 048.3	376.5 4 051.5	3.3% - 3.6%	7.9% 89.0 %
Total revenue											
Expenses	4 113.5	3 944.3	3 564.8	4 930.4	6.2%	100.0%	4 830.2	4 600.7	4 659.9	-1.9%	100.0%
Current expenses	1 537.8	1 590.5	1 533.5	2 022.8	9.6%	40.8%	1 820.0	1 967.0	2 079.8	0.9%	43.2%
· ·	729.4	763.3	822.7	944.4	9.0%	20.0%	1 026.3	1 101.8	1 152.4	6.9%	23.1%
Compensation of employees Goods and services	729.4 544.9	763.5 553.5	437.7	769.8	12.2%	14.0%	476.4	523.5	559.5	-10.1%	12.7%
Depreciation	263.5	273.7	273.1	308.6	5.4%	6.9%	317.3	341.6	367.9	6.0%	7.3%
Interest, dividends and rent	0.0	0.0	0.0	306.0	-100.0%	0.5%	317.3	341.0	307.9	0.0%	7.5/0
on land	0.0	0.0	0.0	-	-100.0%	_	_	_	_	_	_
Transfers and subsidies	2 572.9	2 399.7	2 127.2	2 573.1	_	59.2%	2 483.4	2 710.1	2 613.8	0.5%	56.8%
Total expenses	4 110.7	3 990.2	3 660.7	4 595.9	3.8%	100.0%	4 303.4	4 677.0	4 693.6	0.7%	100.0%
Surplus/(Deficit)	2.8	(45.9)	(95.9)	334.6	392.6%	100.070	526.8	(76.3)	(33.7)	-146.5%	100.076
Jul plus/ (Delicit)	2.0	(43.3)	(33.3)	334.0	392.076		320.8	(70.3)	(33.7)	-140.3/6	
Cash flow statement											r
Cash flow from operating	467.0	403.9	167.7	366.6	-7.8%	100.0%	794.1	165.3	314.2	-5.0%	100.0%
activities											
Receipts											
Non-tax receipts	138.1	129.9	109.7	89.7	-13.4%	2.8%	141.4	176.2	248.9	40.5%	3.5%
Sales of goods and services	85.1	71.4	74.3	71.7	-5.5%	1.8%	124.4	159.2	231.9	47.9%	3.2%
other than capital assets											
Sales by market	57.1	71.4	74.3	71.7	7.9%	1.7%	124.4	159.2	231.9	47.9%	3.2%
establishment					400.004						
Other sales	28.0	-	25.4	10.0	-100.0%	0.2%	47.0	- 17.0	47.0	1.00/	- 0.404
Other tax receipts	53.1	58.5	35.4	18.0	-30.2%	1.0%	17.0	17.0	17.0	-1.9%	0.4%
Transfers received	3 504.8	3 737.4	3 111.1	3 856.2	3.2%	85.7%	3 804.1	4 013.5	4 081.6	1.9%	84.8%
Financial transactions in	797.1	340.0	141.9	722.8	-3.2%	11.4%	846.0	315.3	300.6	-25.4%	11.7%
assets and liabilities	4 440.0	4 207 2	2 262 7	4 668.7	1 70/	100.0%	4 701 6	4 505 0	4 621 4	-0.3%	100.00/
Total receipts	4 440.0	4 207.2	3 362.7	4 668.7	1.7%	100.0%	4 791.6	4 505.0	4 631.1	-0.3%	100.0%

Table 35.30 National Research Foundation statements of financial performance, cash flow and financial position

Statement of financial perform	ance					Average:					Average:
					Average	Expen-				Average	Expen-
					growth	diture/				growth	diture/
				Revised	rate	Total	Medium	n-term expend	diture	rate	Total
	A	Audited outco	me	estimate	(%)	(%)		estimate .		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Payment											
Current payments	1 283.8	1 411.3	1 220.4	1 729.0	10.4%	37.0%	1 514.1	1 629.6	1 703.1	-0.5%	38.8%
Compensation of employees	754.2	767.5	805.0	944.4	7.8%	21.6%	1 026.3	1 101.8	1 152.4	6.9%	24.9%
Goods and services	529.5	643.8	415.3	784.7	14.0%	15.4%	487.8	527.8	550.7	-11.1%	13.8%
Interest and rent on land	0.0	_	0.0	-	-100.0%	-	_	_	_	_	-
Transfers and subsidies	2 689.2	2 392.0	1 974.7	2 573.1	-1.5%	63.0%	2 483.4	2 710.1	2 613.8	0.5%	61.2%
Total payments	3 973.0	3 803.3	3 195.0	4 302.1	2.7%	100.0%	3 997.4	4 339.7	4 316.8	0.1%	100.0%
Net cash flow from investing	(252.9)	(200.6)	(196.2)	(649.1)	36.9%	100.0%	(844.1)	(265.3)	(334.2)	-19.9%	100.0%
activities		. ,	, ,	`				, ,	, ,		
Acquisition of property,	(250.7)	(173.9)	(173.0)	(643.1)	36.9%	93.3%	(839.1)	(263.2)	(332.1)	-19.8%	99.3%
plant, equipment and	,	(/	(/	(/			,	,	,		
intangible assets											
Acquisition of software and	(2.6)	(27.3)	(23.3)	(6.0)	32.0%	6.9%	(5.0)	(2.1)	(2.1)	-29.8%	0.7%
other intangible assets	(- /	(- /	(/	(,			(,	` ,	, ,		
Proceeds from the sale of	0.4	0.6	0.1	_	-100.0%	-0.1%	_	_	_	_	_
property, plant, equipment											
and intangible assets											
Net cash flow from financing	(19.8)	(0.0)	-	-	-100.0%	_	-	-	-	_	-
activities	,,	(,									
Repayment of finance leases	(0.1)	(0.0)	_	_	-100.0%	_	_	_	_	_	-
Other flows from financing	(19.7)		_	-	-100.0%	-	_	_	_	_	_
activities											
Net increase/(decrease) in	194.4	203.3	(28.5)	(282.6)	-213.3%	0.7%	(50.0)	(100.0)	(20.0)	-58.6%	-2.5%
cash and cash equivalents											
Statement of financial position											
Carrying value of assets	2 630.8	2 553.9	2 470.6	2 805.1	2.2%	59.6%	3 332.0	3 255.7	3 221.9	4.7%	69.6%
Acquisition of assets	(250.7)	(173.9)	(173.0)	(643.1)	36.9%	100.0%	(839.1)	(263.2)	(332.1)	-19.8%	100.0%
Investments	13.8	12.6	7.4	5.0	-28.7%	0.2%	4.0	3.0	1.0	-41.5%	0.1%
Inventory	4.5	5.1	7.9	8.0	21.2%	0.1%	8.3	8.4	8.5	2.0%	0.2%
Receivables and	1 195.2	1 024.3	964.8	940.0	-7.7%	23.5%	920.0	900.0	850.0	-3.3%	20.0%
prepayments											
Cash and cash equivalents	657.8	861.1	832.6	550.0	-5.8%	16.5%	500.0	400.0	380.0	-11.6%	10.1%
Defined benefit plan assets	2.0	2.2	2.4	2.5	6.9%	0.1%	2.6	2.8	2.8	3.8%	0.1%
Total assets	4 504.1	4 459.2	4 285.8	4 310.6	-1.5%	100.0%	4 766.8	4 569.8	4 464.2	1.2%	100.0%
Accumulated surplus/(deficit)	2.4	5.6	3.2	-	-100.0%	0.1%	-	-	-	_	-
Capital and reserves	86.7	114.4	104.2	90.0	1.3%	2.3%	75.0	68.0	60.0	-12.6%	1.6%
Capital reserve fund	2 630.8	2 553.9	2 470.6	2 805.1	2.2%	59.6%	3 332.0	3 255.7	3 221.9	4.7%	69.6%
Finance lease	0.0	-	-	-	-100.0%	_	_	_	-	-	-
Deferred income	1 662.4	1 667.5	1 566.7	1 290.5	-8.1%	35.2%	1 241.9	1 136.1	1 077.3	-5.8%	26.2%
Trade and other payables	111.5	117.8	141.1	125.0	3.9%	2.8%	118.0	110.0	105.0	-5.6%	2.5%
Provisions	10.4	-	-	-	-100.0%	0.1%	_	_	-	-	-
Total equity and liabilities	4 504.1	4 459.2	4 285.8	4 310.6	-1.5%	100.0%	4 766.8	4 569.8	4 464.2	1.2%	100.0%

Personnel information

Table 35.31 National Research Foundation personnel numbers and cost by salary level

	Number of	posts estimated																Average	
		for																growth	Average:
	31 Ma	rch 2022			Nun	nber and co	ost1 of per	sonnel	posts fille	d/planned	for on	funded e	stablishme	ent				rate of	Salary
	Number	Number																personnel	level/
	of	of																posts	Total
	funded	posts		Actual	Revis	ed estima	te			Medi	um-term e	expenditu	re estin	nate			(%)	(%)	
	posts	on approved																	
		establishment	2	2020/21					2	2022/23		2	2023/24		2	2024/25		2021/22 -	2024/25
					Unit			Unit			Unit			Unit			Unit		
National Resea	arch Foundati	on	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost		
Salary level	1,386	1 386	1 386	822.7	0.6	1 386	944.4	0.7	1 386	1 026.3	0.7	1 386	1 101.8	0.8	1 386	1 152.4	0.8	6.9%	100.0%
1-6	210	210	210	37.5	0.2	210	51.0	0.2	210	56.0	0.3	210	60.1	0.3	210	62.9	0.3	7.2%	5.4%
7 – 10	851	851	851	404.1	0.5	851	430.8	0.5	851	474.3	0.6	851	509.2	0.6	851	532.5	0.6	7.3%	46.1%
11 – 12	213	213	213	198.4	0.9	213	242.5	1.1	213	262.9	1.2	213	282.3	1.3	213	295.2	1.4	6.8%	25.6%
13 – 16	107	107	107	165.1	1.5	107	208.9	2.0	107	220.9	2.1	107	237.1	2.2	107	248.0	2.3	5.9%	21.7%
17 – 22	5	5	5	17.5	3.5	5	11.1	2.2	5	12.2	2.4	5	13.1	2.6	5	13.7	2.7	7.3%	1.2%

Rand million.

South African National Space Agency

Selected performance indicators

Table 35.32 South African National Space Agency performance indicators by programme/objective/activity and related priority

Indicator	Programme/Objective/Activity	MTSF priority	Audi	ted perform	ance	Estimated	ı	VITEF targets	i
			2018/19	2019/20	2020/21	performance 2021/22	2022/23	2023/24	2024/25
Number of students and interns supported for formalised training per year	Space science	Priority 1: A capable, ethical and developmental state	52	54	60	50	70	90	90
Number of activities initiated through formal international partnerships per year	Earth observation	Priority 7: A better	_1	_1	_1	9	9	9	15
Number of activities initiated through formal national partnerships per year	Earth observation	Africa and world	_1	_1	_1	12	13	13	15
Number of awareness and training interventions to key users of space-based products and services per year	Earth observation	Priority 3: Education, skills and health	_1	_1	9	5	5	5	8
Total income generated from space operations activities per year	Space operation	Priority 2: Economic transformation and job creation	R80m	R100m	R75.65m	R69m	R70m	R72m	R73m

^{1.} No historical data available.

Entity overview

The South African National Space Agency was established in terms of the South African National Space Agency Act (2008), as amended, to promote the peaceful use of space, foster international cooperation in space-related activities, and facilitate the creation of an environment conducive to space technology and industrial development. Over the medium term, the agency will focus on broadening the suite of products and services available in the space sector, and contributing to promoting socioeconomic development across Africa. This will be achieved by building adequate space capacity; improving geospatial information; developing key infrastructure in support of the sector; and providing technical skills interventions, research capacity, and knowledge-management tools.

As the agency relies on highly skilled professionals to fulfil its mandate, compensation of employees accounts for an estimated 52.8 per cent (R475 million) of its planned spending, increasing at an average annual rate of 0.8 per cent, from R163.7 million in 2021/22 to R167.4 million in 2024/25. Expenditure is expected to decrease at an average annual rate of 8.5 per cent, from R363.8 million in 2021/22 to R278.8 in 2024/25, particularly in administration-related activities, as a result of an anticipated decrease in revenue, mainly from the parliamentary grant.

Transfers from the department account for an estimated 72.6 per cent (R611 million) of the agency's revenue over the MTEF period. Additional revenue is generated by services rendered to government institutions and other organisations, mainly international clients in the space sector.

Programmes/Objectives/Activities

Table 35.33 South African National Space Agency expenditure trends and estimates by programme/objective/activity

						Average:					Average:
					Average	Expen-				Average	Expen-
					growth	diture/				growth	diture/
				Revised	rate	Total	Mediun	n-term expen	diture	rate	Total
	Aud	dited outcom	e	estimate	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Administration	51.7	51.0	60.1	69.0	10.1%	20.6%	51.9	55.1	57.5	-5.9%	19.2%
Earth observation	66.4	68.1	66.1	91.1	11.1%	25.8%	90.4	41.5	43.3	-21.9%	21.2%
Space operation	76.5	88.9	82.0	77.7	0.5%	29.4%	74.8	78.4	81.9	1.8%	25.9%
Space science	44.6	54.5	50.2	87.8	25.3%	20.5%	70.1	62.8	65.7	-9.2%	23.3%
Space engineering	-	5.8	4.6	38.2	ı	3.6%	29.0	29.3	30.4	-7.4%	10.4%
Total	239.2	268.3	263.1	363.8	15.0%	100.0%	316.2	267.2	278.8	-8.5%	100.0%

Statements of financial performance, cash flow and financial position

Table 35.34 South African National Space Agency statements of financial performance, cash flow and financial position

Statement of financial perform				Revised	Average growth rate	Average: Expen- diture/ Total	Mediun	n-term expen	diture	Average growth rate	Average: Expen- diture/ Total
		Audited outco		estimate	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Revenue											
Non-tax revenue	101.0	112.9	81.8	78.9	-7.9%	30.5%	79.8	84.1	87.4	3.5%	27.4%
Sale of goods and services other than capital assets of which:	90.4	102.9	75.6	75.6	-5.8%	28.0%	76.3	80.5	83.8	3.5%	26.3%
Sales by market establishment	90.4	102.9	75.6	75.6	-5.8%	28.0%	76.3	80.5	83.8	3.5%	26.3%
Other non-tax revenue	10.6	10.0	6.1	3.3	-32.2%	2.5%	3.5	3.6	3.6	3.4%	1.2%
Transfers received	179.9	205.3	200.8	284.9	16.6%	69.5%	236.5	183.1	191.4	-12.4%	72.6%
Total revenue	280.9	318.2	282.5	363.8	9.0%	100.0%	316.2	267.2	278.8	-8.5%	100.0%
Expenses											
Current expenses	234.7	263.0	255.8	344.5	13.7%	97.0%	293.3	267.1	278.6	-6.8%	96.8%
Compensation of employees	115.2	125.1	130.5	163.7	12.4%	47.3%	153.6	154.0	167.4	0.8%	52.8%
Goods and services	92.0	115.6	101.1	180.8	25.2%	42.4%	139.7	113.1	111.2	-15.0%	44.0%
Depreciation	27.5	22.3	24.1	_	-100.0%	7.2%	_	_	_	_	_
Transfers and subsidies	4.6	5.3	7.3	19.3	61.9%	3.0%	22.9	0.2	0.2	-80.0%	3.2%
Total expenses	239.2	268.3	263.1	363.8	15.0%	100.0%	316.2	267.2	278.8	-8.5%	100.0%
Surplus/(Deficit)	41.7	49.9	19.4	-	-100.0%		_	_	_	_	
Cash flow statement	72.7	45.5	1317		100.070						
Cash flow from operating activities Receipts	43.5	122.3	74.0	47.6	3.0%	100.0%	28.8	30.2	8.8	-43.1%	100.0%
Non-tax receipts	98.9	113.8	81.8	78.9	-7.3%	30.4%	79.8	84.1	87.4	3.5%	28.1%
Sales of goods and services	91.1	105.0	77.3	76.0	-5.9%	28.5%	76.7	80.9	84.3	3.5%	27.1%
other than capital assets											
Sales by market establishment	90.4	104.2	75.6	75.6	-5.8%	28.2%	76.3	80.5	83.8	3.5%	26.9%
Other sales	0.7	0.8	1.7	0.4	-17.2%	0.3%	0.4	0.4	0.5	7.1%	0.1%
Other tax receipts	7.8	8.8	4.4	2.9	-28.1%	2.0%	3.0	3.2	3.2	2.8%	1.0%
Transfers received	179.9	205.3	200.8	284.9	16.6%	69.6%	236.5	183.1	169.0	-16.0%	71.9%
Total receipts	278.8	319.0	282.5	363.8	9.3%	100.0%	316.2	267.2	256.4	-11.0%	100.0%
Payment											
Current payments	235.3	196.7	208.6	316.3	10.4%	100.0%	287.4	237.0	247.6	-7.8%	100.0%
Compensation of employees	115.2	125.1	130.5	164.2	12.5%	56.8%	153.6	153.6	167.4	0.7%	59.4%
Goods and services	120.1	71.6	78.0	152.1	8.2%	43.2%	133.8	83.4	80.2	-19.2%	40.6%
Total payments	235.3	196.7	208.6	316.3	10.4%	100.0%	287.4	237.0	247.6	-7.8%	100.0%
Net cash flow from investing activities	(19.6)	(40.4)	(15.1)	(47.6)	34.4%	100.0%	(28.8)	(30.2)	(8.8)	-43.1%	100.0%
Acquisition of property, plant, equipment and intangible assets	(19.2)	(32.9)	(13.7)	(47.6)	35.4%	92.5%	(28.8)	(30.2)	(8.8)	-43.1%	100.0%
Acquisition of software and other intangible assets	(0.4)	(7.4)	(1.4)	-	-100.0%	7.5%	-	-	-	-	-
Net increase/(decrease) in cash and cash equivalents	23.9	81.9	58.8	0.0	-100.0%	15.7%	-	0.0	(0.0)	-197.1%	_
Statement of financial position	1										
Carrying value of assets	438.8	489.5	480.2	473.2	2.5%	69.4%	474.5	495.8	495.8	1.6%	74.5%
Acquisition of assets	(19.2)	(32.9)	(13.7)	(47.6)	35.4%	100.0%	(28.8)	(30.2)	(8.8)	-43.1%	100.0%
Inventory	0.3	0.4	0.4	0.5	16.9%	0.1%	0.5	0.5	0.5	1.5%	0.1%
Receivables and	36.4	38.9	24.7	10.4	-34.1%	4.1%	10.4	10.9	10.9	1.5%	1.6%
prepayments					,0	,,					
Cash and cash equivalents	121.1	203.0	261.8	151.2	7.7%	26.5%	151.2	158.0	158.0	1.5%	23.8%
Total assets	596.6	731.9	767.1	635.2	2.1%	100.0%	636.5	665.1	665.1	1.5%	100.0%
Accumulated surplus/(deficit)	526.4	609.6	629.0	483.6	-2.8%	82.4%	489.9	512.0	512.0	1.9%	76.8%
Borrowings	-	_	0.2	1.0	-	-	1.0	1.1	1.1	1.5%	0.2%
Deferred income	44.3	90.3	101.2	132.9	44.2%	13.5%	132.9	138.9	138.9	1.5%	20.9%
Trade and other payables	17.5	23.4	26.0	10.0	-17.1%	2.8%	5.0	5.2	5.2	-19.5%	1.0%
Provisions Derivatives financial	8.2 0.1	8.5	10.8	7.6	-2.5% -100.0%	1.3%	7.6	8.0	8.0	1.5%	1.2%
instruments			_								
Total equity and liabilities	596.6	731.9	767.1	635.2	2.1%	100.0%	636.5	665.1	665.1	1.5%	100.0%

Table 35.35 South African National Space Agency personnel numbers and cost by salary level

_	esti 31 N	ber of posts mated for larch 2022			Nu	mber and	cost¹ of p	ersonn	el posts fill	ed/plan	ned for	on funded	establis	hmen	ıt			Average growth rate of	Average: Salary
ľ	Number	Number																personn	level/
	of	of																el posts	Total
	funded	posts		Actual		Revise	ed estima	ate			Medium	-term expe	enditure	estin	nate			(%)	(%)
	posts	on approved establishment		2	021/22		2	022/23		20	23/24		203	24/25		2021/22	- 2024/25		
		CStubilishinicht	-	020,21	Unit	_	UL1, LL	Unit	_	JEE, ES	Unit			Unit		,	Unit	LULI/LL	2024/23
South African N	African National Space Agency Number Cost				cost	Number	Cost	cost	Number	Cost	cost	Number	Cost		Number	Cost			
Salary level	205	204	199	130.5	0.7	205	163.7	0.8	196	153.6	0.8	203	154.0	0.8	202	67.4	0.8	0.8%	100.0%
1-6	27	27	26	4.8	0.2	27	8.1	0.3	21	7.4	0.4	26	7.8	0.3	24	8.1	0.3	-0.2%	4.9%
7 – 10	110	109	109	55.1	0.5	110	65.6	0.6	109	62.0	0.6	109	62.0	0.6	110	67.5	0.6	1.0%	40.3%
11 – 12	28	28	28	24.1	0.9	28	29.7	1.1	28	29.8	1.1	28	29.8	1.1	28	31.1	1.1	1.5%	18.9%
13 – 16	39	39	35	44.1	1.3	39	57.5	1.5	37	51.7	1.4	39	51.7	1.3	39	57.9	1.5	0.2%	34.2%
17 – 22	1	1	1	2.4	2.4	1	2.7	2.7	1	2.7	2.7	1	2.7	2.7	1	2.8	2.8	1.5%	1.7%

^{1.} Rand million.

Technology Innovation Agency

Selected performance indicators

Table 35.36 Technology Innovation Agency performance indicators by programme/objective/activity and related priority

Indicator	Programme/Objective/Activity	MTSF priority	Audi	ted perform	ance	Estimated performance	ľ	MTEF targets	3
			2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Number of licensed or assigned technologies per year	Provide customer-centric, early- stage commercialisation for technology development		_1	_1	1	9	11	15	15
Number of successfully diffused technologies per year	Provide customer-centric, early- stage commercialisation for technology development		_1	_1	1	9	8	10	10
Number of products launched per year	Provide customer-centric, early- stage commercialisation for technology development		_1	_1	13	22	23	30	30
Total rand value leveraged through signed agreements entered into with other parties per year	Provide an enabling environment for technology innovation	Priority 2: Economic transformation and	1	_1	R700m	R239m	R194m	R237.5m	R237.5m
Number of new technology transfer centres providing science, engineering and technology support in targeted regions per year	Technology development stations	job creation	_1	_1	1	3	∞	12	12
Number of small, medium and micro enterprises and cooperatives receiving technology support per year	Technology development stations		3 272	3 269	1 990	3 500	3 800	4 000	4 000
Number of honours, masters and postdoctoral students admitted within the technology station activities per year	Technology development stations	Priority 3: Education, skills and health	_1	_1	_1	95	121	130	130
Number of patents, publication outputs and knowledge-based products (such as prototypes, technology demonstrators and technology assistance packages) produced per year	Provide an enabling environment for technology innovation	Priority 2: Economic transformation and job creation	_1	_1	_1	130	140	165	165

^{1.} No historical data available.

Entity overview

The Technology Innovation Agency draws its mandate from the Technology Innovation Agency Act (2008), as amended. The agency serves as the key institutional intervention to bridge the innovation gap between research and development outcomes from higher education institutions, science councils, public entities and private companies to maximise the potential of technological innovation to invigorate the economy.

Over the medium term, the agency will continue to focus on: bridging the innovation gap between research and

development; supporting technologies within the national system of innovation; scaling up all strategic programmes by increasing the pace at which applications and internal processes take place; and creating a conducive environment for engaging with innovators, stakeholders and suppliers. Accordingly, the agency plans to license 41 new technologies, provide technology development funding and support in strategic high-impact areas to 83 innovators, and ensure that at least 470 patents, publication outputs and knowledge-based products are produced. To fund these initiatives, expenditure is expected to increase at an average annual rate of 2.1 per cent, from R572.2 million in 2021/22 to R608.3 million in 2024/25. Compensation of employees accounts for an estimated 19.7 per cent (R348.1 million) of expenditure over the period ahead.

The agency derives the bulk of its revenue through transfers from the department. These are set to increase at an average annual rate of 2.4 per cent, from R447.7 million in 2021/22 to R480.8 million in 2024/25 as the agency aims to increase the number of technologies it licenses and commercialises.

Programmes/Objectives/Activities

Table 35.37 Technology Innovation Agency expenditure trends and estimates by programme/objective/activity

					Average growth	Average: Expen- diture/				Average growth	Average: Expen- diture/
				Revised	rate	Total	Mediun	n-term expen	diture	rate	Total
	Aud	dited outcom	e	estimate	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Administration	175.6	166.3	149.4	165.6	-1.9%	28.6%	166.7	167.4	169.4	0.8%	28.5%
Provide customer-centric, early-stage commercialisation for technology development	78.0	84.0	79.6	72.3	-2.5%	13.6%	72.6	72.9	76.9	2.1%	12.6%
Provide an enabling environment for technology innovation	28.0	43.0	28.1	37.7	10.4%	5.9%	44.4	44.4	48.3	8.6%	7.4%
Provide bioeconomy programmes and platforms	161.0	228.5	197.2	205.7	8.5%	34.3%	212.0	212.7	224.4	2.9%	36.4%
Technology development stations	102.0	98.0	114.4	91.0	-3.7%	17.6%	87.1	87.3	89.4	-0.6%	15.1%
Total	544.6	619.7	568.7	572.2	1.7%	100.0%	582.9	584.6	608.3	2.1%	100.0%

Statements of financial performance, cash flow and financial position

Table 35.38 Technology Innovation Agency statements of financial performance, cash flow and financial position

Statement of financial perform	ance					Average:					Average:
					Average	Expen-				Average	Expen-
					growth	diture/				growth	diture/
				Revised	rate	Total	Medium	n-term expend	diture	rate	Total
_		Audited outco		estimate	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Revenue											
Non-tax revenue	146.4	162.8	173.8	124.5	-5.2%	26.1%	124.5	124.5	127.5	0.8%	21.3%
of which:											
Other non-tax revenue	146.4	162.8	173.8	124.5	-5.2%	26.1%	124.5	124.5	127.5	0.8%	21.3%
Transfers received	420.3	440.9	408.8	447.7	2.1%	73.9%	458.4	460.1	480.8	2.4%	78.7%
Total revenue	566.7	603.8	582.6	572.2	0.3%	100.0%	582.9	584.6	608.3	2.1%	100.0%
Expenses											
Current expenses	175.6	166.3	149.4	165.6	-1.9%	28.6%	166.7	167.4	169.4	0.8%	28.5%
Compensation of employees	105.1	109.0	101.1	114.9	3.0%	18.7%	115.7	116.2	116.2	0.4%	19.7%
Goods and services	61.2	51.1	43.9	43.8	-10.6%	8.7%	43.8	43.7	45.4	1.2%	7.5%
Depreciation	9.4	6.2	4.5	6.9	-9.8%	1.2%	7.2	7.5	7.8	4.4%	1.2%
Transfers and subsidies	369.0	453.5	419.2	406.6	3.3%	71.4%	416.1	417.2	438.9	2.6%	71.5%
Total expenses	544.6	619.7	568.7	572.2	1.7%	100.0%	582.9	584.6	608.3	2.1%	100.0%
Surplus/(Deficit)	22.1	(16.0)	14.0	-	-100.0%		_	-	-	-	
Cash flow statement											
Cash flow from operating	51.1	(16.1)	36.0	(87.2)	-219.5%	100.0%	(78.3)	(75.2)	73.7	-194.6%	100.0%
activities											
Receipts											
Non-tax receipts	10.4	10.5	6.5	10.5	0.3%	1.8%	10.5	10.5	10.5	_	2.2%
Other tax receipts	10.4	10.5	6.5	10.5	0.3%	1.8%	10.5	10.5	10.5	-	2.2%
Transfers received	530.4	587.0	569.7	447.7	-5.5%	97.2%	458.4	460.1	460.1	0.9%	97.8%
Financial transactions in	19.7	3.5	1.4	-	-100.0%	1.1%	-	_	-	-	-
assets and liabilities											
Total receipts	560.5	601.1	577.6	458.2	-6.5%	100.0%	468.9	470.6	470.6	0.9%	100.0%

Table 35.38 Technology Innovation Agency statements of financial performance, cash flow and financial position

Statement of financial perform					•	Average:		•			Average:
•					Average	Expen-				Average	Expen-
					growth	diture/				growth	diture/
				Revised	rate	Total	Medium	n-term expend	diture	rate	Total
	A	Audited outco	me	estimate	(%)	(%)		estimate		(%)	(%)
R million	2018/19	2019/20	2020/21	2021/22	2018/19 -	2021/22	2022/23	2023/24	2024/25	2021/22 -	2024/25
Payment											
Current payments	185.7	241.1	133.4	158.7	-5.1%	32.3%	159.6	159.9	159.6	0.2%	31.9%
Compensation of employees	105.1	109.0	101.1	114.9	3.0%	19.5%	115.7	116.2	116.2	0.4%	23.2%
Goods and services	80.6	132.1	32.4	43.8	-18.4%	12.8%	43.8	43.7	43.4	-0.3%	8.7%
Transfers and subsidies	323.7	376.0	408.2	386.7	6.1%	67.7%	387.6	385.9	237.4	-15.0%	68.1%
Total payments	509.4	617.2	541.6	545.4	2.3%	100.0%	547.1	545.8	396.9	-10.0%	100.0%
Net cash flow from investing	(3.7)	2.6	(0.4)	(2.6)	-10.9%	100.0%	(2.6)	(2.7)	(2.7)	1.5%	100.0%
activities											
Acquisition of property,	(5.1)	(1.9)	(1.3)	(1.1)	-40.2%	111.1%	(1.1)	(1.1)	(1.2)	1.5%	42.3%
plant, equipment and											
intangible assets											
Acquisition of software and	(2.3)	(0.7)	(0.2)	(1.5)	-13.5%	35.7%	(1.5)	(1.6)	(1.6)	1.5%	57.7%
other intangible assets											
Other flows from investing	3.8	5.1	1.1	-	-100.0%	-46.8%	_	_	_	-	-
activities											
Net cash flow from financing	(7.2)	(8.1)	58.8	89.8	-332.4%	100.0%	80.9	77.9	(71.0)	-192.5%	100.0%
activities											
Deferred income	106.4	154.3	58.8	89.8	-5.5%	-795.9%	80.9	77.9	(71.0)	-192.5%	100.0%
Borrowing activities	(113.5)	(162.4)	_	-	-100.0%	895.9%	_	_	_	_	-
Net increase/(decrease) in	40.3	(21.7)	94.4	-	-100.0%	5.1%	-	-	-	-	-
cash and cash equivalents											
Statement of financial position											
Carrying value of assets	18.6	13.1	8.5	18.6		7.8%	18.6	20.6	23.0	7.3%	15.8%
Acquisition of assets	(5.1)	(1.9)	(1.3)	(1.1)	-40.2%	100.0%	(1.1)	(1.1)	(1.2)	1.5%	100.0%
Investments	33.4	9.3	12.5	6.8	-40.2%	7.0%	3.0	3.0	3.0	-23.9%	3.1%
Loans	15.9	34.7	25.4	23.3	13.5%	12.4%	23.3	23.3	23.3	-23.970	18.3%
Receivables and	4.1	4.8	4.5	4.1	13.5/0	2.2%	4.1	4.3	4.5	3.1%	3.4%
prepayments	4.1	4.0	4.5	4.1	_	2.270	4.1	4.5	4.5	3.1/0	3.470
Cash and cash equivalents	169.2	147.5	242.0	76.9	-23.1%	70.6%	71.9	75.1	78.9	0.9%	59.4%
Total assets	241.3	209.5	293.0	129.8	-18.7%	100.0%	121.0	126.4	132.7	0.8%	100.0%
Accumulated surplus/(deficit)	97.5	66.2	80.1	76.3	-7.8%	39.5%	72.5	75.8	79.6	1.4%	59.7%
Capital reserve fund	81.1	88.4	147.2	31.1	-27.3%	37.5%	26.1	27.3	28.7	-2.7%	22.2%
Finance lease	0.2	0.3	0.2	0.5	31.5%	0.2%	0.5	0.6	0.6	3.1%	0.4%
Trade and other payables	61.8	53.9	65.0	21.4	-29.8%	22.5%	21.4	22.4	23.5	3.1%	17.4%
Derivatives financial	0.6	0.7	0.4	0.3	-18.9%	0.3%	0.3	0.4	0.4	3.1%	0.3%
instruments	0.0	0.7	0.4	0.5	10.570	0.570	0.3	0.7	0.4	3.1/0	0.570
Total equity and liabilities	241.3	209.5	293.0	129.8	-18.7%	100.0%	121.0	126.4	132.7	0.8%	100.0%
										0.070	

Personnel information

Table 35.39 Technology Innovation Agency personnel numbers and cost by salary level

	· · · · · · · · · · · · · · · · · · ·	57		, p					,	,								1	
	Number of pos	ts estimated for																Average	
	31 Mar	ch 2022			Num	nber and c	ost1 of p	ersonn	el posts fil	led/plann	ed for	on funded	establis	hment				growth	Average:
	Number	Number																rate of	Salary
	of	of																personnel	level/
	funded	posts																posts	Total
	posts	on approved		Actual		Revise	ed estima	ate		1	Mediur	n-term ex	penditur	e estin	nate			(%)	(%)
		establishment	2	2020/21 2021,		021/22		2	022/23		2	023/24		20	24/25		2021/22 - 2	024/25	
					Unit			Unit			Unit			Unit			Unit		
Technology Ir	novation Agency		Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost	Number	Cost	cost		
Salary level	162	162	163	101.1	0.6	162	114.9	0.7	161	115.7	0.7	157	116.2	0.7	156	116.2	0.7	0.4%	100.0%
1-6	26	26	30	3.1	0.1	26	2.8	0.1	21	2.3	0.1	21	2.3	0.1	21	2.3	0.1	-5.7%	2.1%
7 – 10	75	75	74	37.5	0.5	75	40.0	0.5	75	37.1	0.5	68	34.9	0.5	68	34.9	0.5	-4.4%	31.7%
11 – 12	34	34	29	24.0	0.8	34	32.9	1.0	32	26.6	0.8	34	29.4	0.9	34	29.4	0.9	-3.7%	25.6%
13 – 16	26	26	28	35.0	1.3	26	37.0	1.4	30	41.8	1.4	32	43.7	1.4	31	43.7	1.4	5.7%	35.9%
17 – 22	1	1	2	1.4	0.7	1	2.3	2.3	3	7.9	2.6	2	5.8	2.9	2	5.8	2.9	36.8%	4.7%

^{1.} Rand million.