



ANNUAL REPORT 2022

LOGISTICS

*"THE ROOTS OF EDUCATION ARE BITTER,
BUT THE FRUIT IS SWEET."*

~ ARISTOTLE



 **TRAC**
ERADICATING POVERTY

 **Stellenbosch**
UNIVERSITY
IYUNISITHI
UNIVERSITEIT

Number of TRAC Points 2022

TRAC operated in 6 areas during 2022. We are grateful to our financial partners, **National Ceramic Industries, Komatsu Foundation, Steinmüller, and the Italtile & Ceramic Foundation Trust**, who donated funds for our operations in 2022.

A new TRAC point was established in the Vaal Triangle (Gauteng). This point is a combined Mathematics and Physical Science point that was established due to the increased funding of National Ceramic Industries. In Hammanskraal (Gauteng) we were able to expand our beneficiary offering to include Mathematics. The expansion in the Hammanskraal point was possible due to increased funding received from National Ceramic Industries. In Kagiso (Gauteng), the TRAC point, which operated as a Mathematics point in 2021, was expanded to include Physical Science intervention. We thank the Italtile and Ceramic Foundation Trust for the increased funding at this point to enable us to assist our beneficiaries in the Physical Science learning area.

TRAC and Steinmüller Africa, the funding partner in the Kriel area, decided to change the focus area of the intervention from Physical Science to Mathematics. Significant challenges in Mathematics at the participating schools motivated the change. We are elated that Steinmüller Africa has agreed to add another TRAC Mathematics point in Mpumalanga from January 2024.

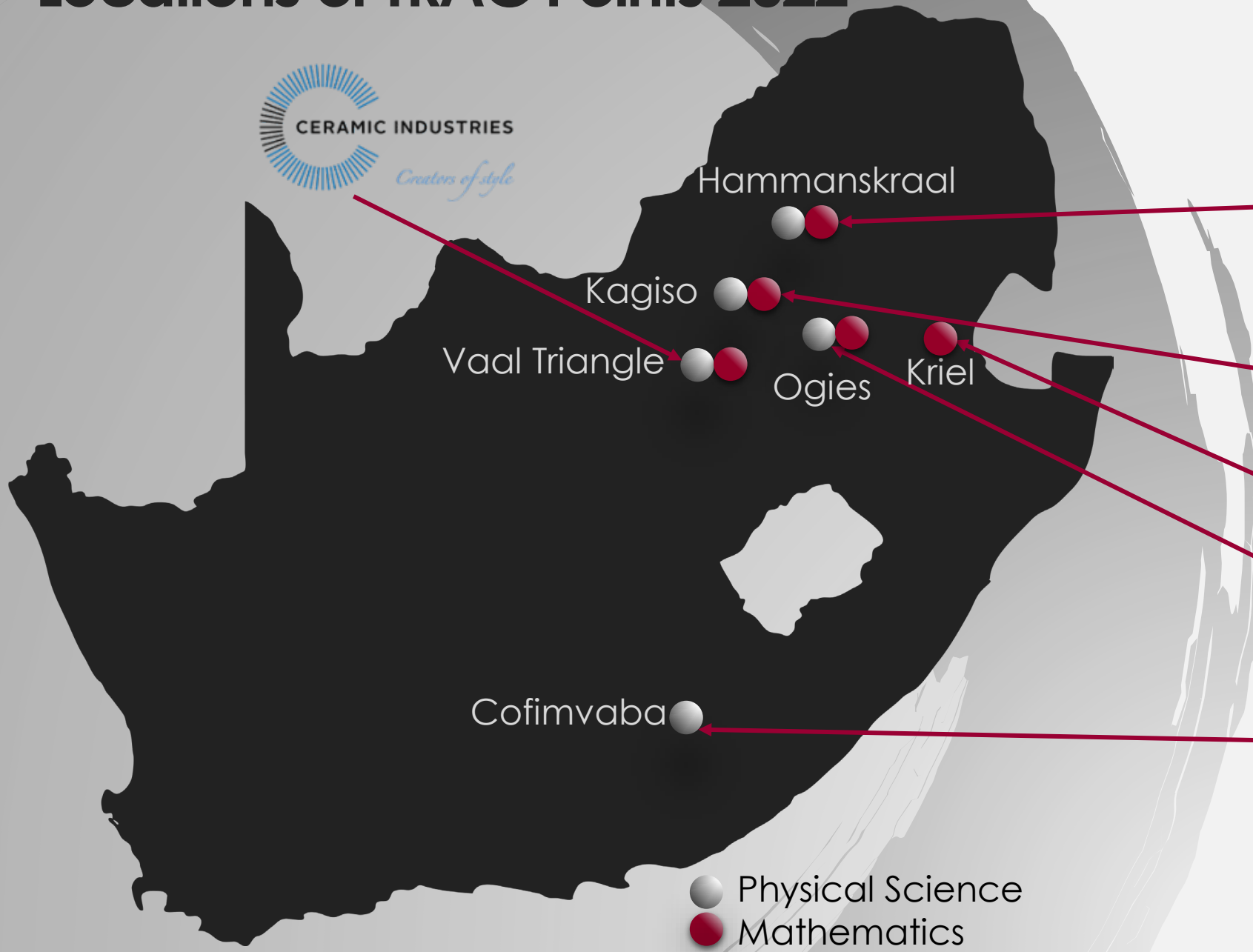
	2019		2020		2021		2022	
	M	PS	M	PS	M	PS	M	PS
EC	6	7	6	6	2	2	0	1
GN		4		4	1	1	3	3
KZN		2		2				
LP		2		2	1	1		
MP		2		1	1	2	2	1
NC		1		1		1		
WC		1		1				
TOTAL	6	19	6	17	5	7	5	5



Locations of TRAC Points 2022



Steinmüller
KOMATSU



FINANCES

***“AN INVESTMENT IN KNOWLEDGE PAYS
THE BEST INTEREST.”***

~ BENJAMIN FRANKLIN

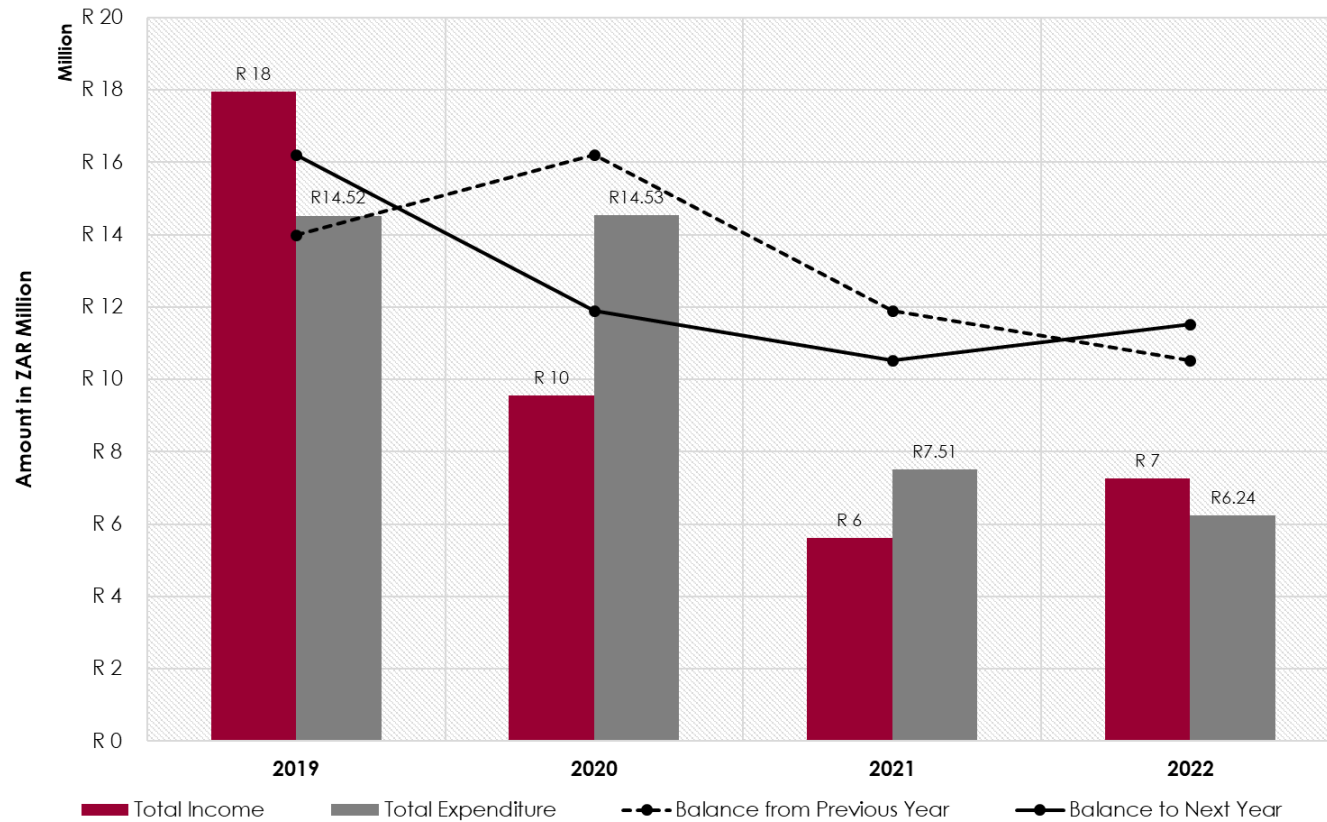


TRAC
ERADICATING POVERTY

Stellenbosch
UNIVERSITY
IYUNIVESITHI
UNIVERSITEIT

Financial Report

TRAC Income & Expense Comparison 2019 to 2022



We remain grateful for the support of our financial partners. Their donations made it possible for TRAC to operate in 30 secondary schools in 2022.

TRAC commenced 2022 with **R10 525 568**, carried over from 2021. During 2022, this balance was augmented with donations from our financial partners to the value of **R5 610 095**. The income for 2022 was **29.4%** more than that of the previous year.

Expenditure during 2022 amounted to **R6 241 709**, which was **83.1%** of the expenditure in 2021. We are satisfied that fiscal disciplinary measures implemented in 2022 ensured that we optimised expenditure. The expenditure per TRAC point learning area intervention has dropped consistently from R 631k (in 2020) to R626k (in 2021) to R624k last year.

The year concluded with a balance of **R11 512 433**, which is **8.6%** higher than the closing balance of 2021. (Detailed financial statements in Addendum)

OUTCOMES

*"BETTER THAN A THOUSAND DAYS OF
DILIGENT STUDY IS ONE DAY WITH
A GREAT TEACHER."*

~ JAPANESE PROVERB



 **TRAC**
ERADICATING POVERTY

 **Stellenbosch**
UNIVERSITY
IYUNIVESITHI
UNIVERSITEIT

Beneficiary Outcomes

ACADEMIC INTERVENTION

Mathematics & Physical Science

5 Secondary Schools
500 Beneficiaries
Monday to Friday
During & After School Hours
Weekend & Vacation Programs

TERTIARY APPLICATIONS

Vocational Guidance

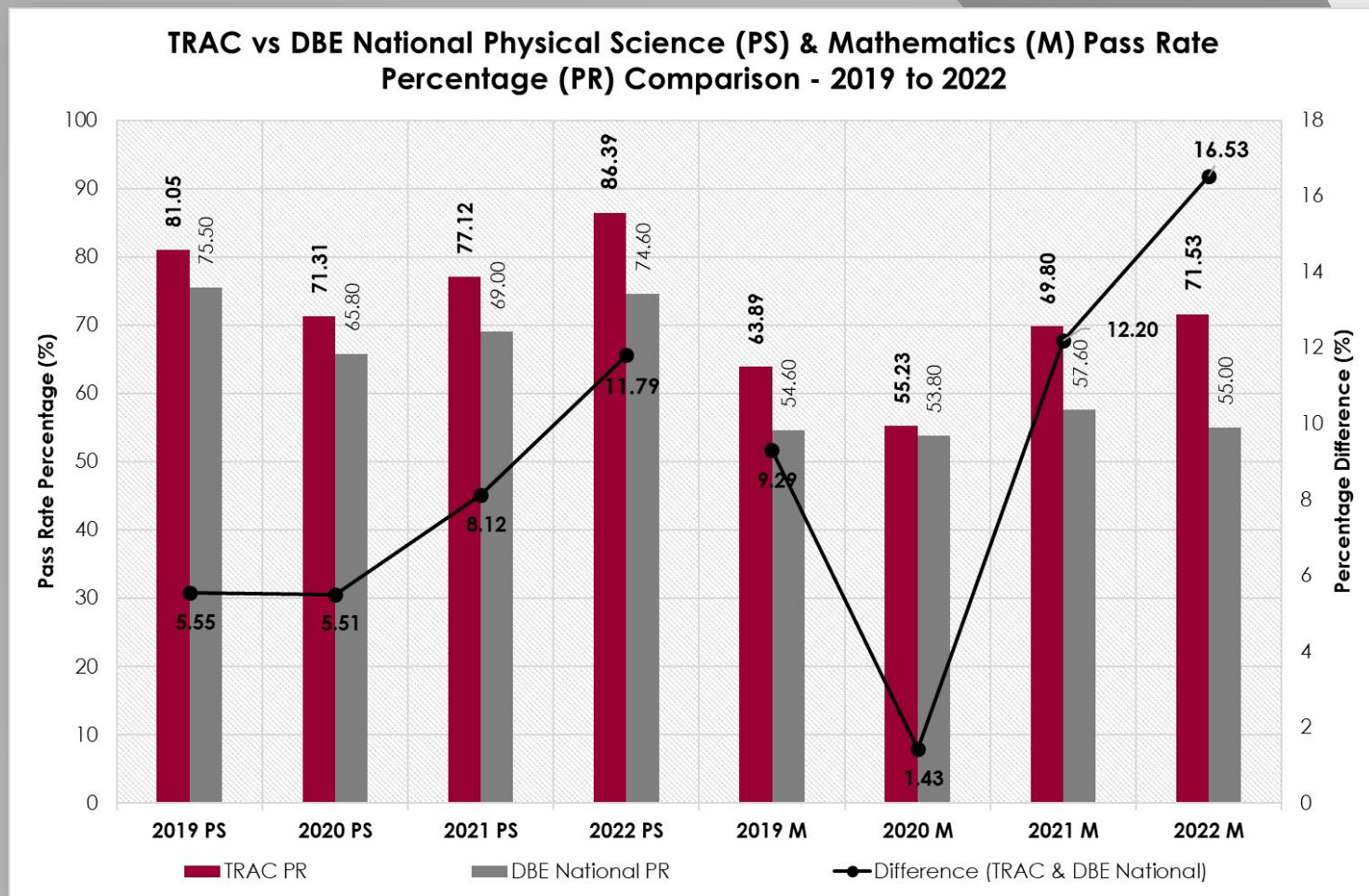
Career Interest Tests
One-on-one interviews to align
abilities with interest
3 tertiary applications per
beneficiary

BURSARY APPLICATIONS

Funding for Tertiary Studies

Assistance for grade 12
beneficiaries for intended
tertiary studies

Academic Results Pass Rate Percentage



Enduring tumultuous grade 10 and 11 academic years, in which Covid-19 restrictions impacted teaching and learning, the grade 12 cohort of 2022 performed remarkably.

The PS pass rate of the DBE, which includes schools from ALL quintiles, improved by 5.60%, from 69.00% in 2021 to 74.60% in 2022. TRAC's PS pass rate improved by **9.28%** from 77.12% to **86.39%**. The TRAC PS pass rate for 2022 has surpassed that of 2019 (pre-Covid-19). The gap between the TRAC schools and the DBE National pass rate percentage has increased from 8.12% to **11.79%**.

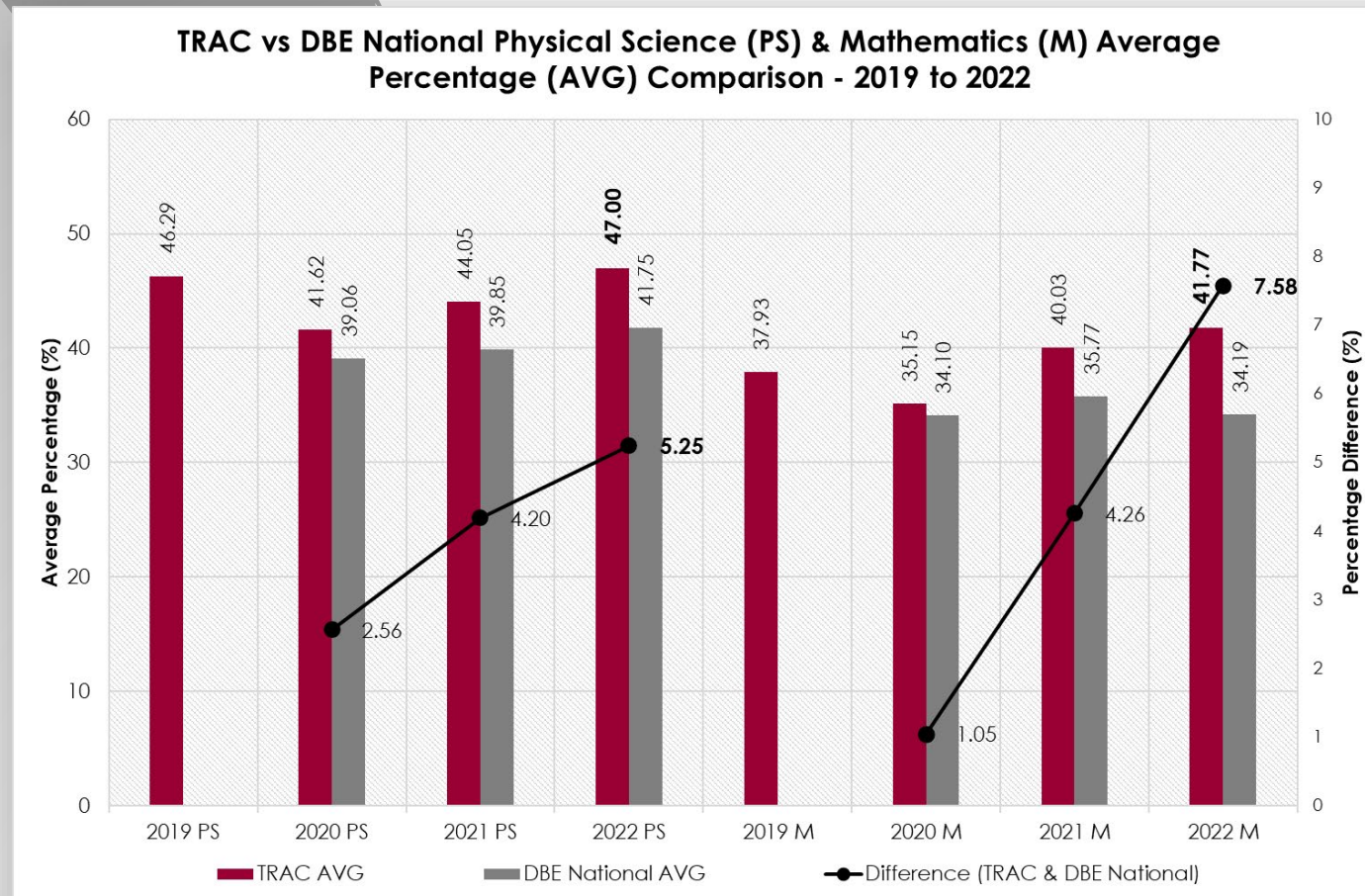
The Mathematics pass rate of all schools of the DBE dropped by 2.60% from 57.60% to 55.00%. TRAC's Maths pass rate improved by **1.72%** from 69.80% to **71.53%**. The difference in performance between the TRAC schools and the DBE on a national level has again increased. Where the TRAC schools performed 12.20% better than the DBE schools in 2021, this gap has now increased to **16.53%**.

Academic Results Average Percentage

Since 2020 TRAC has been able to obtain the Mathematics and Physical Science marks of all grade 12 learners nationally. Being in possession of these statistics has allowed us to not only report on pass rates but to do an analysis and comparison on average percentages as well.

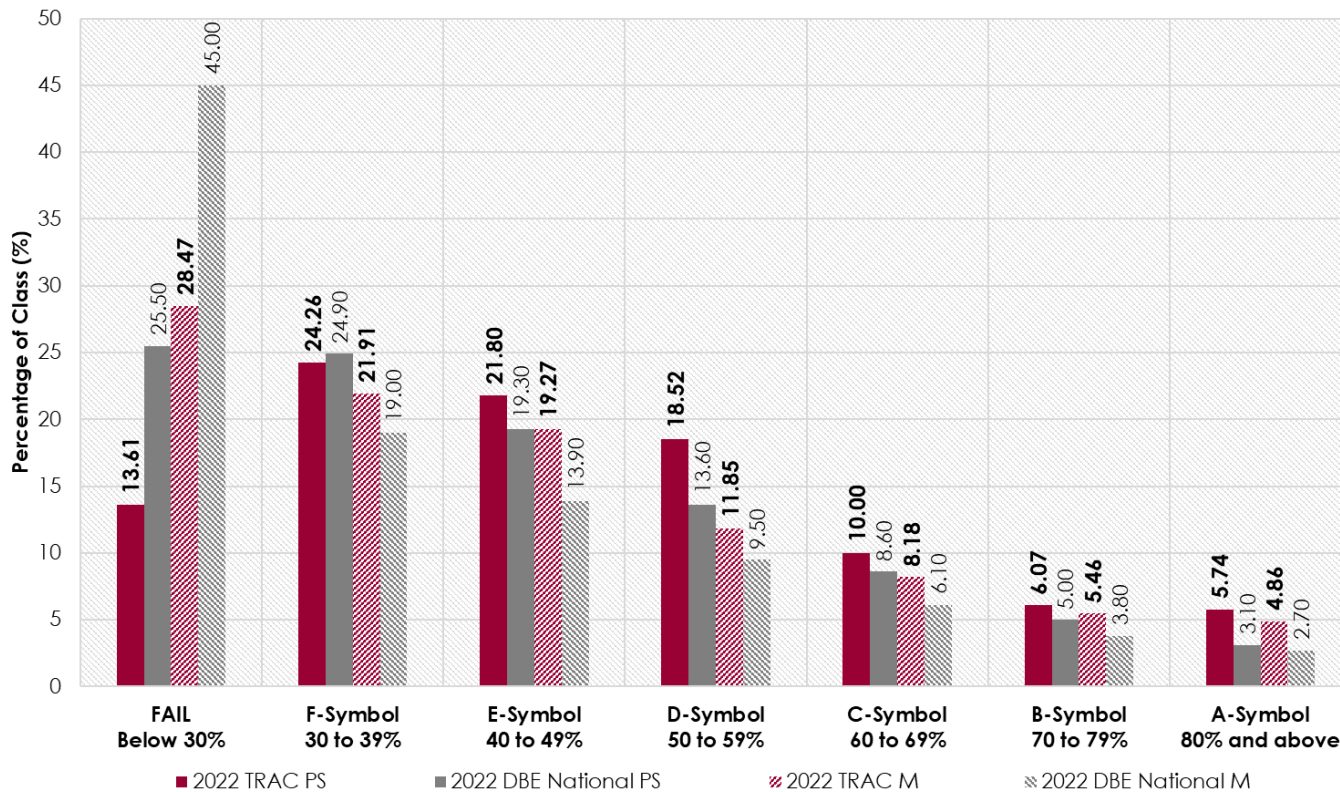
After losing some ground during a school closure disrupted year in 2020, some comeback has been made in 2021. The TRAC Physical Science average percentage increased by 2.95% from 44.05% to **47.00%**, whilst the DBE National average improved by 1.90% to 41.75%. The gap between the TRAC and DBE National average percentage have increased year on year, reaching **5.25%** in 2022.

The TRAC Mathematics average percentage increased by 1.74% from 40.03% to **41.77%**, whilst the DBE National average declined by 1.58% down to 34.19%. We are satisfied that the TRAC schools are increasing the performance gap, recording a 7.58% difference to that of the DBE National average percentage



Academic Results Symbol Distribution Comparison

TRAC vs DBE National Physical Science (PS) & Mathematics (M) Symbol Distribution Comparison



The median percentage for the Physical Science marks of the TRAC 2022 cohort is 45%. The average percentage is 47%. The implication, therefore, is that the symbol distribution curve is skewed to the right. The 2021 TRAC cohort's median was 41% and the average was 44.05%. The median of the 2022 DBE's National Physical Science performance is 39%, whilst the average is 41.75%.

Likewise, the Mathematics symbol distribution curve is also skewed to the right, with the median percentage being 39%, whilst the average is 41.77%. The 2021 TRAC cohort's median was also 39%, whilst the average was 40.03%. The DBE National Mathematics median for 2022 was 32%, with an average of 34.19%.

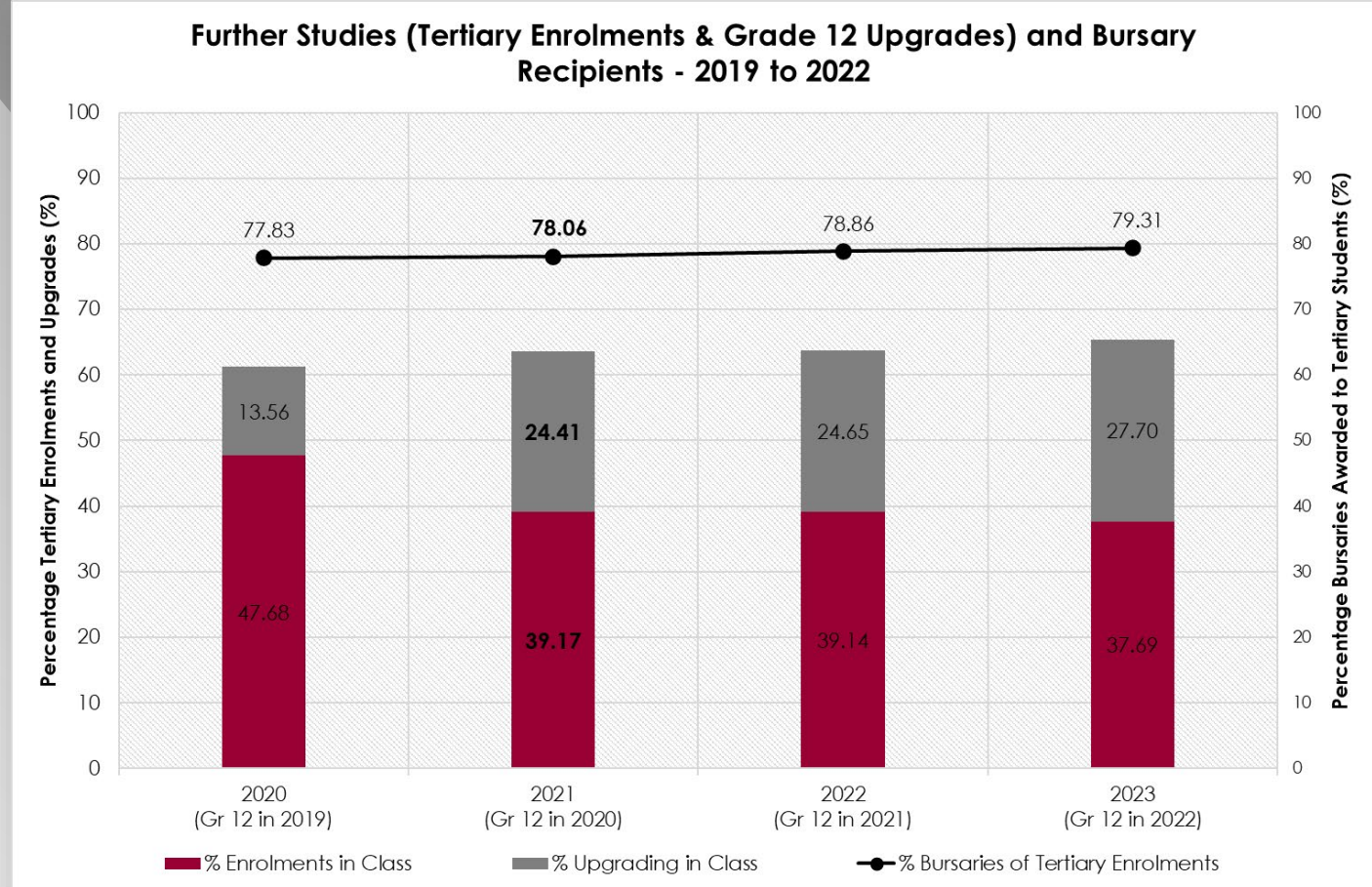
It is, however, pleasing to note that in both learning areas, the TRAC cohort recorded a higher percentage weighting in the percentage ranges from 40% to 100%.

TERTIARY & BURSARY OUTCOMES

After completing interest tests, conducting interviews with each grade 12 learner, and collecting relevant documentation, we assist our learners to apply for tertiary studies that are aligned with their expectations and their abilities. We also assist each of our students to apply for bursaries for their intended tertiary studies.

37.69% of the 2021 Grade 12 class registered for tertiary studies, compared to 39.14% in the previous year (depicted in the maroon bars). A substantial percentage (**27.70%**) of our grade 12 cohort of 2021 have decided to improve their grade 12 results (grey bars). These students attend grade 12 subject lectures at tertiary institutions or schools. These students have registered to write the supplementary examinations in June or November. They will re-apply for tertiary studies during 2023 for 2024.

There are a number of reasons for the lower tertiary enrolment figures. The number of students passing grade 12 with tertiary access has increased, yet the available spaces in tertiary institutions have not increased to meet the demand. NSFAS has capped the accommodation amount, deterring students from registering due to a lack of personal funds to cover the shortfall.



Currently, **79.31%** (78.06% in 2021) of the learners that have taken up tertiary studies do so with funding. The students that have not obtained funding for their tertiary studies did not qualify due to their household income being above the NSFAS threshold, or they are studying at an institution that NSFAS does not fund, or they are non-SA residents.

HIGHLIGHTS

*"EDUCATION IS THE PASSPORT TO THE
FUTURE, FOR TOMORROW, BELONGS TO
THOSE WHO PREPARE FOR IT TODAY."*

~ MALCOLM X



TRAC
ERADICATING POVERTY

Stellenbosch
UNIVERSITY
IYUNIVESITHI
UNIVERSITEIT

TRAC features in Murray & Roberts' CSR Report 2021

**Murray
& Roberts**

**CORPORATE SOCIAL
RESPONSIBILITY**

ANNUAL REPORT 2021

CHANGING LIVES THROUGH EDUCATION AND SKILLS DEVELOPMENT

CORPORATE SOCIAL RESPONSIBILITY ANNUAL REPORT 2021

LETSEMA SIZWE

The Letsema Sizwe Trust provides support to development projects, led by longstanding and reputable organisations whose primary focus is providing educational support to disadvantaged learners in South Africa. Letsema Sizwe has collaborated with the University of Stellenbosch's Technology Research Activity Centre ("TRAC") and the Tomorrow Trust.



TRAC is a national, non-profit Physical Science programme. Under-resourced schools in impoverished communities are provided with mobile laboratories and qualified science teachers. Learners who struggled to understand the subject are now excelling and qualifying to study further in the fields of science and technology. Murray & Roberts sponsors a laboratory in Musina and another in Kuruman; both towns play host to two of our large mining projects.

TRAC provides mobile science laboratories to schools that do not have these facilities. The programme also supports learners when applying for tertiary studies.

The Tomorrow Trust delivers Saturday and holiday supplementary school programmes supporting academic learning in Mathematics, English, Physical Science and Life Science.

Letsema Sizwe also provides funding for the Jack Cheetham and Letsema Awards, although due to the pandemic and lockdown restrictions we have been unable to host the 2020 and 2021 awards but are hopeful that the 2022 awards will take place. These awards provide financial support for development projects that have a focus on sport. The Jack Cheetham award assists able-bodied athletic projects and the Letsema award provides financial assistance to differently-abled sports and athletes.

Tomorrow Trust was founded to provide holistic support to orphaned and vulnerable children, helping them achieve a comprehensive and integrated education. Murray & Roberts sponsors the Tomorrow Trust Saturday school and holiday programmes. These programmes help the learners improve their academic results through psychological and academic support, enabling them to access tertiary education and breaking the cycle of poverty.

Georgina Makhae, who started her TRAC journey in grade 10 at Morakolo Secondary School, was featured in the Murray & Roberts CSR Report of 2021 (published in 2022). Georgina hails from a small rural village, Shongoane 3, which is situated on the outskirts of Lephalale, in the Limpopo province.

Through TRAC's intervention, Georgina's Physical Science marks improved from 58% in grade 11 to 80% in grade 12.

"Because of my unstable financial background that I am from I wanted to further my studies."

TRAC assisted her to apply for and register at Stellenbosch University. TRAC was also instrumental in her obtaining a bursary from the Lephalale Municipality.

Georgina obtained a BSc (Earth Science) degree and a post-graduate certificate in education.

TRAC features in Ceramic Industries' Rainbow Bridge Newsletter

RAINBOW newsletter
BRIDGE

• August 2022

OUR COMMUNITY

by Tabisa Ngubo, Group Corporate Social Investment Coordinator



Group Corporate Social Investment Coordinator
Tabisa Ngubo

Over the years, Ceramic Industries has put together a community development programme that is aligned to the overall business strategy. The

elements of the programme are closely interlinked and address our growth as a business while positively impacting our communities.

Our education programmes are a wonderful example that illustrates how this has borne fruit – these programmes have now matured to a point where some learners from our partner schools are direct beneficiaries of the company bursaries, while others have become part of our learnership programmes. Meanwhile, our conservation programmes go beyond the

basic requirement of involvement. Besides environmental education outreach, our efforts have led to some of our beneficiaries establishing food gardens that feed learners, and recycling corners that have generated revenue for them.

Our CEO, factory managers and departmental heads are intimately involved in our Enterprise and Development programmes. As a result, community development is an integral part of the company's sustainability programme. Because of such a high level

of buy-in to the programmes, our company is able to envision a Sustainability Programme that touches all points of our processes – from material sourcing to how we manufacture our products, environmental consciousness, and the impact on our partners at large. And all in a manner that shows the shared value we create for our customers, our suppliers, our people, society, planet, and shareholders.

Here are some of the recent programmes we have embarked on in our communities.

Ceramic Industries' Maths and Science flagship programme expanded SAMCA TRAC Point

Through TRAC SA, we continue to support five schools in Hammanskraal with Physical Science education, and 2021 marked three years of our partnership. This year we added Mathematics to the programme, as it has been shown that the two subjects cannot be separated.

In the past, the TRAC programme has had a significant, positive effect on students' results. However, the Covid-19 pandemic and the subsequent effect on teaching time due to extended school closure had a significant impact on the 2020 results. Before the Covid-19 pandemic, the pass rate for Physical Science at the Hammanskraal TRAC schools was 90.4%. In 2021, while the Hammanskraal schools were still dealing with the pandemic's impact on teaching time, results have managed to move closer to pre-Covid performance, with a pass rate of 88.60%. This certainly compares favourably to the national pass rate of 69%.

We were also able to assist the schools with study guides and calculators.



Hosen Kekana Secondary School



Makgathole Secondary School



RAINBOW newsletter
BRIDGE

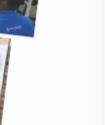
• August 2022



Retsepo Secondary School



Sinthlaleke Secondary School



RAINBOW newsletter
BRIDGE

• August 2022

Vaal TRAC Point

This year we expanded the programme to the Vaal area, and a launch roadshow was attended by our CEO, HR representative, factory management team, environmental and support centre employees. The five schools involved were excited to form part of the programme, with school leadership expressing how they had already felt the difference since the onboarding of the Maths and Science facilitators.



Maseke Secondary School



Lekwa Shandu Secondary School



Letsheng Secondary School



Mr. Jabulani Nkomo
District Department of Education



Mphahlele Secondary School



Ekurhuleni Secondary School





TRAC mentors and supports students at Stellenbosch University. It's crucial that students are supported in making a smooth transition from home to varsity and from secondary to tertiary education.

On Sunday, 20 February, Ms. Debbey Olivier, Director of TRAC SA, hosted an event for the new TRAC@Maties in the Reitz Hall in the faculty of Engineering at Stellenbosch University. The aim of the event was to meet the 70 new first-year students, but more so, to empower them with knowledge about study methods, time management, assessment methods, and requirements for tests and exams.

We are thankful to the senior TRAC@Maties students who attended the session to assist with answering the many questions the newcomers posed.

**70 new
TRAC@Maties
students**



Ceramic Industries TRAC point launched in the Vaal Triangle

We are thankful to Ceramic Industries for increasing their support of the TRAC program by donating funds to TRAC to establish a Mathematics and Physical Science TRAC point in the Vaal Triangle in Gauteng Province.

An extensive process, which included research on learner enrolment numbers and historic performance, meetings with district officials, as well as interviews with school management teams was performed before selecting the group of 5 TRAC schools. The launch of TRAC in these schools took place in March 2022.

Media coverage of TRAC point launch in the Vaal Triangle

From the Sedibeng Star: "During the launch at Mohloli Maritime School in Sharpeville, representatives from TRAC and Ceramic industries encouraged learners to work hard in order to have a chance to turn their lives around and achieve their dreams.

TRAC Regional Manager Beauty Kotela says, 'As TRAC we come in to assist you to do well in Maths and Science. We want you to excel in your studies because we want you to further your studies at a tertiary level. But you are the one who has to put in the hard work.'

Ceramic Industries CEO Tshepo Molefakgotla told the learners that their background did not have to determine their future. Molefakgotla encouraged learners to choose careers that would still be relevant in the future, saying that Mathematics and Science would lead into such fields.

'We don't guarantee the funding to the program, the people that guarantee funding is you. You need to make the program successful by producing good results. We are not looking for mediocre, we are looking for the best.'





PIB Testing

Steinmüller Africa

The Steinmüller-TRAC partnership is mutually beneficial, a symbiotic relationship. Mr. Leon Botha, the Talent and Organisational Development Manager, and Mrs. Mary Davel, the Recruitment Specialist at Steinmüller utilised the Potential Index Battery (PIB) instrument in assessing grade 12 learners. All grade 12 learners from the Steinmüller project, as well as those from the Komatsu project, benefited from these tests. It was a wonderful addition to the TRAC vocational guidance strategy.

“We are in our second year of partnering with the university and our selection results and recruitment efforts are already bearing fruit. Our focus on foundational technical competence is needed in combating skills shortages for our industry,” said Leon Botha, Talent and OD Manager at SMA.



Winter Vacation Program

There is no time to be idle when you are preparing for your final grade 12 examinations. Vacation periods are ideal for our facilitators to spend uninterrupted time with learners. These sessions are utilised to do revision on work done previously, but also to introduce new topics still to be covered.

Mr. Harrison Ofosu, TRAC Mathematics facilitator, works in five TRAC schools in Hammanskraal. During the past winter school vacation he conducted Mathematics sessions with the grade 12 learners at Boitshepo Secondary School.

The additional time spent with the learners was well worth it, as it reaped the rewards. Boitshepo Secondary School recorded a 100% pass rate in Mathematics with an average percentage of 61.39%.



The Ceramic Industries TRAC Roadshow has now become an annual highlight on our partnership's calendar.

On 2 May a delegation from Ceramic Industries and TRAC visited the 5 TRAC schools in the Hammanskraal area. The purpose of the visit was to motivate the Grade 12 Physical Science learners to work hard at their academics to optimise their chances of being accepted for tertiary studies. TRAC alumni, currently studying at tertiary institutions, as well as those doing internships at SAMCA, had an opportunity to engage with the learners.

Each attendee received a calculator and study guides as a gift from Ceramic Industries.

Ceramic Industries

Roadshow



Woman's Day Initiative

An estimated 30% of girl learners must miss out on school days when they are menstruating because they cannot afford sanitary pads.

Our collaboration with Ceramic Industries goes beyond academics, tertiary applications, and seeking funding for our students.

We thank Ceramic Industries for caring for our girl learners by presenting them with reusable sanitary pads as part of their Woman's Day initiative in August 2022

Now no TRAC girl learner must miss school because she is menstruating.

SUCCESS STORIES

*“EDUCATION IS THE MOST POWERFUL
WEAPON WHICH YOU CAN USE TO
CHANGE THE WORLD.”*

~ NELSON MANDELA



Stellenbosch University Graduates – December 2022



ADDENDUM

“EDUCATION BREEDS CONFIDENCE.

CONFIDENCE BREEDS HOPE.

HOPE BREEDS PEACE.”

~ CONFUCIUS



Statement of Income and Expenditure-ITT:TRAC SOUTH AFRICA (R5527)

For the period ending :	31/12/2022	31/12/2021
TOTAL INCOME	-7 258 528.01	-5 610 094.54
DONATION: SPECIAL PURPOSES	-6 637 421.00	-4 937 536.15
INCOME: SUNDRY TAXABLE	-109 561.04	-193 926.78
INTEREST RECEIVE: INTERNAL ALL	-509 806.84	-430 296.95
PROFIT: EXCHANGE RATE FOREIGN	-355.68	-896.42
SALE: NON ASSET REGISTER ITEMS	0.00	-8 695.65
SALES: TO INTERNAL ORG UNITS	-1 383.45	-38 742.59
TOTAL EXPENDITURE	6 241 708.69	7 513 275.57
CURRENT EXPENDITURE		
AFFILIATION & REGISTRATION EXP	1 500.50	0.00
BURSARY UNDERGRADUATE	0.00	4 207.43
CELL PHONE AIRTIME	24 613.64	266.65
CELL PHONE RENT	16 279.44	34 012.48
CLEARANCE FEE NON-CAPITAL	16 009.10	18 340.93
COMPUTER MATERIALS	68 675.72	94 847.41
CONSUMABLE MATERIALS	0.00	210.69
COPY AND PRINTING	298.00	1 252.60
FLOWERS (NOT GIFTS)	0.00	450.00
FOREIGN EXCHANGE LOSS	330.01	732.09
FUEL, OIL, LUBRICANTS	0.00	1 035.38
GENERAL VEHICLE EXPENDITURE	157 354.00	156 307.80
ICRR (INDIRECT COST)	21 912.21	38 785.36
INTERNET NETWORK EMAIL LEVY	4 784.00	18 563.00
MAINTENANCE OF APPARATUS	755.00	0.00
MAINTENANCE OF VEHICLES AND T	0.00	11 632.25
NON-CAPITALISED BOOKS	0.00	111 041.70
PHOTOGRAPHIC EXPENDITURE	10 000.00	900.00
POSTAGE AND COURIER SERVICES	29 124.98	54 093.50
REFRESHMENTS: NON ACADEMIC	775.90	3 468.81
RELOCATION COST: NEW APPOINTME	0.00	9 000.00
RENT OF ROOMS	0.00	-75 000.00
SMALLER FURNITURE AND EQUIPMEN	0.00	462 472.50
SOFTWARE	9 636.35	1 713.60
STATIONERY	1 690.94	15 598.96
TELEPHONE: CALLS	1 521.84	2 071.01
TELEPHONE: RENT	1 679.00	1 282.19
TOTAL REMUNERATION	5 489 940.79	6 234 628.54
TRANSPORT COST	67 402.22	0.00
TRAVEL: ACCOMMODATION VISUM PA	40 236.25	56 998.94
TRAVEL:DAILY ALLOWANCE AIR CAR	269 190.80	269 362.75
ASSET TRANSACTIONS		
ASSET SCRAPPING/TRANSFERS	-596 463.45	-501 441.86
DEPRECIATION	26 728.99	47 964.66
INCOME: INTERNAL ASSETS	569 734.46	448 040.82
PROFIT/LOSS: ASSETS	0.00	-10 563.62
ASSET PURCHASES	7 998.00	999.00
OPERATING (SURPLUS) / SHORTFALL FOR PERIOD	-1 016 819.32	1 903 181.03

<< CONTINUED ON NEXT PAGE >>

Universiteitskantoor * University Offices

 Private Bag X1 * Matieland, 7602 * Suid-Afrika / South Africa
 Faks / Fax: +27 21 808 3822 * www.sun.ac.za

US250

Statement of Income and Expenditure-ITT:TRAC SOUTH AFRICA (R5527)

For the period ending :	31/12/2022	31/12/2021
FUNDS TRANSFERS	-1 231.93	0.00
TRANSFERS FROM	1 932 891.58	2 631 364.76
TRANSFERS TO	-1 934 123.51	-2 631 364.76
NET (SURPLUS) / SHORTFALL FOR THE PERIOD	-1 018 051.25	1 903 181.03
Plus: ACCUM (FUNDS) / SHORTFALL ON 01/01/2022	-10 526 568.91	-12 429 749.94
ACCUM (FUNDS) / SHORTFALL ON 31/12/2022	-11 544 620.16	-10 526 568.91
Min: BALANCE SHEET ITEMS	32 187.50	1 000.00
CREDITOR PROVISION BALANCING	-8 000.00	0.00
DEBTORS CONTROL ACCOUNT	47 437.50	0.00
ICRR CONTROL	-8 250.00	0.00
PETTY CASH CONTROL ACCOUNT	1 000.00	1 000.00
FUNDS AVAILABLE ON 31/12/2022	-11 512 432.66	-10 525 568.91

 Issued by
 Director: Financial Services

System generated financial report

<< CONTINUED ON NEXT PAGE >>

Universiteitskantoor * University Offices

 Private Bag X1 * Matieland, 7602 * Suid-Afrika / South Africa
 Faks / Fax: +27 21 808 3822 * www.sun.ac.za

US250

THANK YOU

 Debbey Olivier

 debbey@sun.ac.za

 <https://tracsouthafrica.co>

