

# **24<sup>th</sup> ANNUAL GENERAL MEETING**

**of**

**THE SOUTHERN AFRICAN GRAIN LABORATORY NPC**



**CHAIRMAN'S REPORT  
2020/2021**

# TABLE OF CONTENTS

FOREWORD BY THE CHAIRMAN _____	3
STRATEGIC INTENT, AIM AND VALUE _____	4
COMPANY HISTORY AND MILESTONES _____	4
BOARD OF DIRECTORS _____	5
CORE BUSINESS AND CAPABILITIES _____	6
TECHNICAL & ADMIN _____	6
FOCUS AREAS _____	7
PRESENTATIONS _____	9
POPULAR ARTICLES _____	9
PROFESSIONAL AFFILIATIONS _____	9
HUMAN CAPITAL _____	10
PROFICIENCY TESTS OFFERED _____	11
COMPLIANCE CERTIFICATES AND AWARDS _____	12
ISO 17025 ACCREDITATION AND OECD GLP COMPLIANCE _____	13
FINANCIAL POSITION _____	14
CONCLUSION _____	16
ACKNOWLEDGEMENTS _____	16

We measure so that you know!

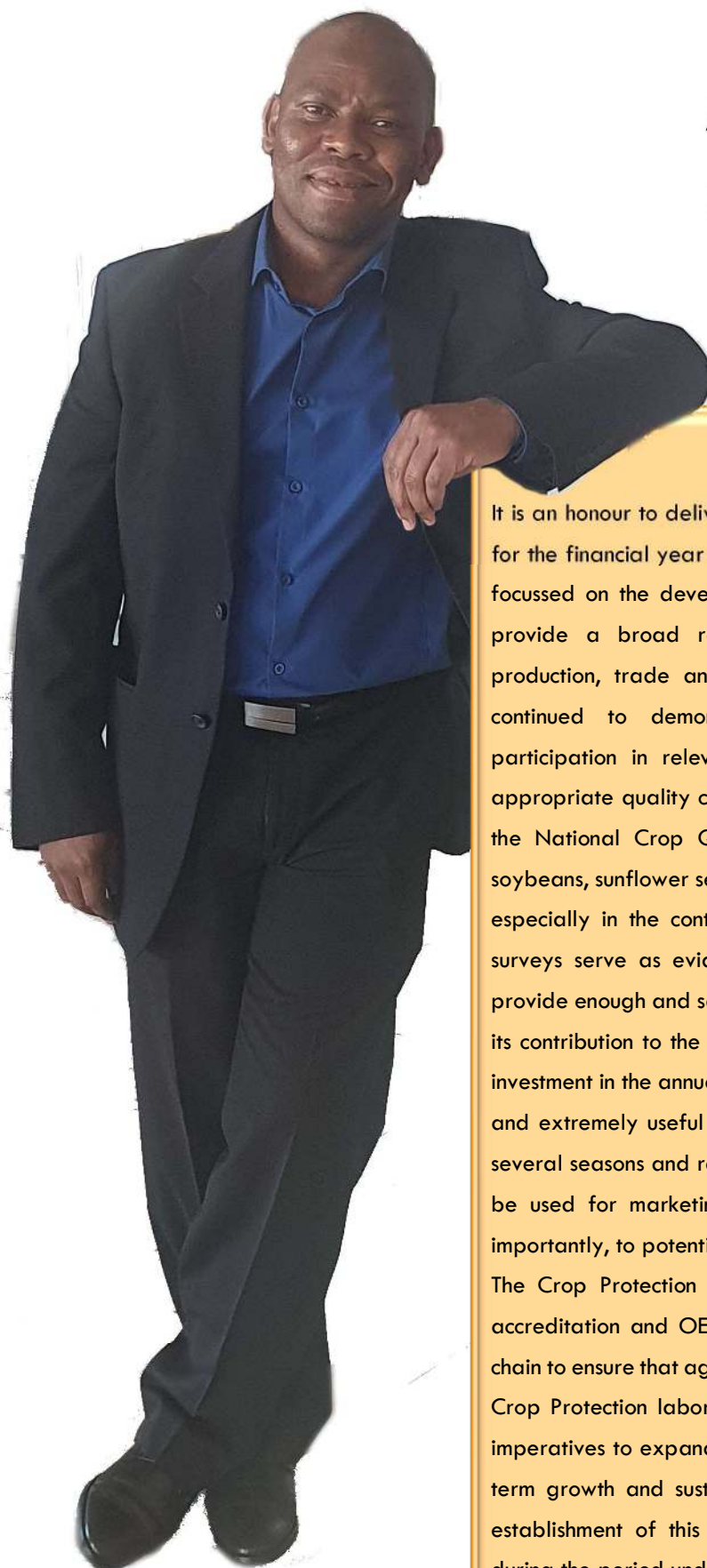
Since 1997



Thank you for being part of  
our journey!



## FOREWORD BY THE CHAIRMAN



*Mr. Boikanyo Mokgatle*

**Chairman 2020/2021**

It is an honour to deliver the 24th Chairperson's Report of the SAGL for the financial year 2020/2021. For the past 24 years, the SAGL focussed on the development and improvement of the capacity to provide a broad range of quality analyses required in the production, trade and processing of grains and oilseeds. It has continued to demonstrate methods of performance through participation in relevant proficiency testing schemes and use of appropriate quality control materials. The significance and value of the National Crop Quality Surveys conducted on wheat, maize, soybeans, sunflower seed and sorghum cannot be over-emphasised – especially in the context of food security and food safety. These surveys serve as evidence of the grain industry's commitment to provide enough and safe food to the South African society as part of its contribution to the country's food security imperatives. The Trusts' investment in the annual Crop Quality Surveys have created a unique and extremely useful database of crop quality measurements over several seasons and regions. Due to reliability and quality, data can be used for marketing of these products locally, but even more importantly, to potential customers in the rest of the world.

The Crop Protection Division of the SAGL, with both ISO 17025 accreditation and OECD GLP Compliance, forms a vital link in the chain to ensure that agricultural remedies comply with regulations. The Crop Protection laboratory was created to align with the strategic imperatives to expand the services base of the laboratory for long-term growth and sustainability. This was the fourth year since the establishment of this division and the laboratory performed well during the period under review.

# STRATEGIC INTENT, AIM AND VALUE

The Southern African Grain Laboratory is an ISO 17025 accredited institution. The focus of the laboratory is grain and oilseed quality testing conducted in the Crop Quality Division. The Plant Protection Products testing is done in the Crop Protection Division.



## STRATEGIC INTENT

## AIM

## VALUE

**To be recognised as market leader in grain and oilseed analysis and related services in Southern Africa**

**To be the analytical service provider of choice for the grain and oilseed industries to enhance competitiveness and sustainability**

**Accurate measurement, agricultural prosperity, social responsibility, and good governance**

# COMPANY HISTORY AND MILESTONES

**1997**

Incorporation of the SAGL

**2010**

SAGL move to the grain building

**2018**

SANAS accreditation and OECD Compliance for the Crop Protection Division

**2021**

Continuous testing activities throughout COVID-19 pandemic



**1997**

**1999**

**2010**

**2017**

**2018**

**2019**

**2021**

**1999**

SANAS accreditation Obtained



**2017**

Launch of the Crop Protection Division

**2019**

20 years SANAS accreditation (Crop Quality Division)

# BOARD OF DIRECTORS



**MR BOIKANYO  
MOKGATLE**  
PROCESSING: MILLING



**MR DEWET BOSHOFF**  
PROCESSING: ANIMAL  
FEED



**DR ERHARD  
BRIEDENHANN**  
RESEARCH



**MR GERRIT ROOS**  
PRODUCTION:  
SOYBEAN



**MR WESSEL LEMMER**  
STORAGE &  
HANDLING



**MR JANNIE DE  
VILLIERS**  
PRODUCTION: MAIZE  
(UNTIL APRIL 2021)



**MR GEOFF PENNY**  
PROCESSING:  
BAKING  
(UNTIL APRIL 2021)



**MR ERWIN  
POTGIETER**  
PROCESSING:  
MILLING



**MR DIRK KOK**  
TRADING  
(UNTIL MAY 2021)



**DR DIRK STRYDOM**  
PRODUCTION:  
WHEAT  
(FROM APRIL 2021)



**MR WILLEM  
GROOTHOF**  
PRODUCTION: MAIZE  
(FROM APRIL 2021)



**MR CRAIG BINNION**  
PROCESSING:  
BAKING  
(FROM APRIL 2021)

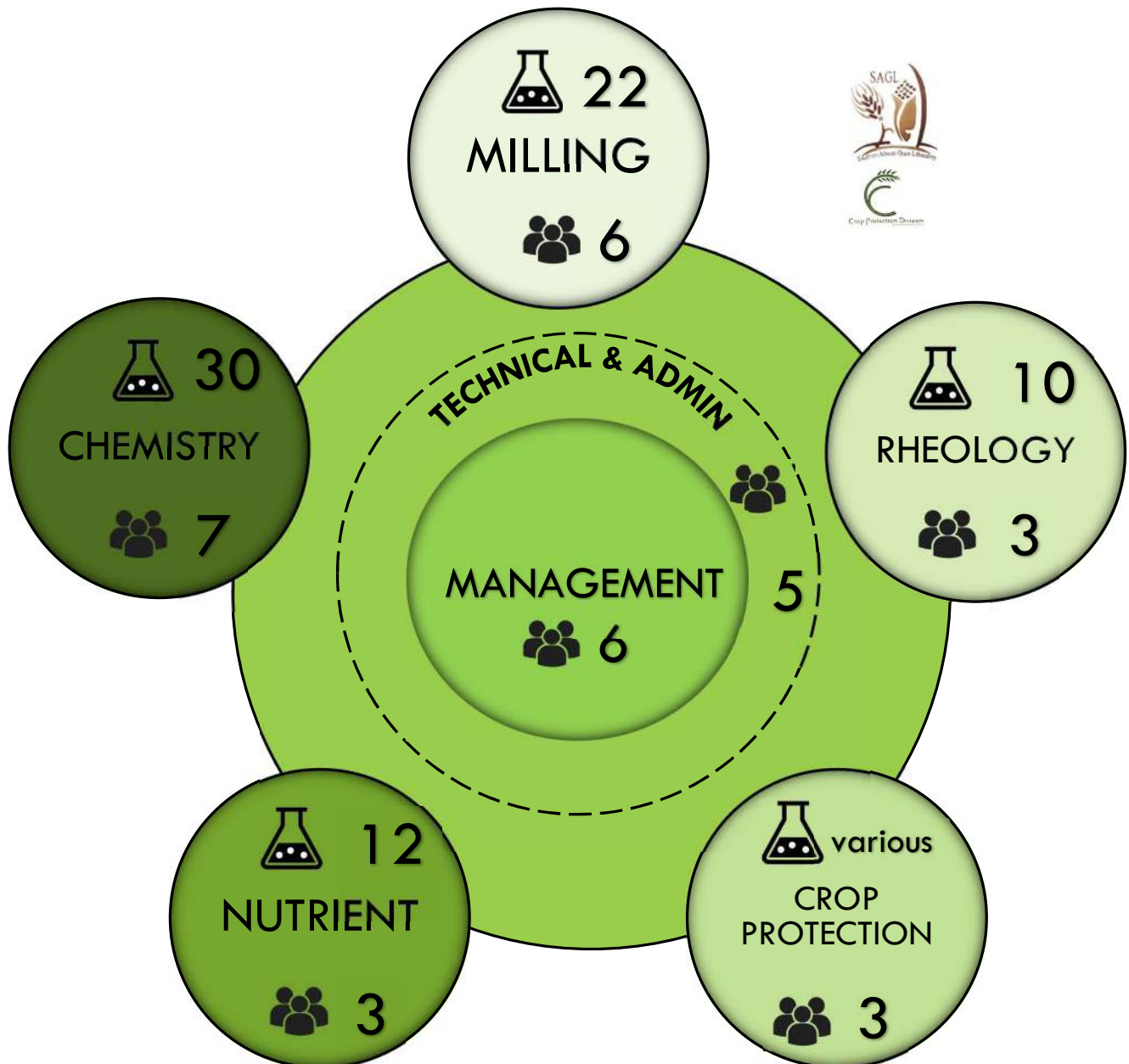


**MR JAAP VAN DER  
WESTHUIZEN**  
ALTERNATE  
(UNTIL APRIL 2021)

The Board would like to acknowledge and appreciate the late Mr Dirk Kok for his dedication and passion showed through his contribution to the work of the SAGL. His loss was a blow for the laboratory. May His soul rest in eternal peace.



## CORE BUSINESS AND CAPABILITIES



The scope of testing in the crop quality and the crop protection divisions is focused on the needs of the agricultural industry and in line with an increasingly dynamic regulatory environment, the scope is expanded to ensure continued compliance in the agricultural industry in South Africa.

The Southern African Grain Laboratory (SAGL) complies with the requirements of the international ISO/IEC 17025 standard for testing laboratories as well as the OECD Principles of Good Laboratory Practice. With this accreditation, the laboratory can provide fit-for-purpose, accurate and internationally accepted measurement results.

## FOCUS AREAS

CROP	BREEDING	IMPORTED	CUSTOMER	TRAINING	PROFICIENCY	RESEARCH PROJECTS
<b>QUALITY</b>	<b>Wheat</b>	<b>wheat &amp;</b>	<b>requests</b>	<b>courses</b>	<b>SCHEMES</b>	<b>(Examples)</b>
<b>SURVEYS:</b>	<b>cultivar</b>	<b>maize</b>		<b>offered</b>	<b>offered</b>	
<b>Maize,</b>	<b>samples</b>				<b>(Ringtests)</b>	
<b>Wheat,</b>						
<b>Soybeans,</b>						
<b>Sunflower</b>						
<b>and Grain</b>						
<b>Sorghum</b>						
Grading, Milling and Physical testing	Milling and Physical testing	Grading, Milling and Physical testing	Grading, Milling and Physical testing	Wheat and wheat flour analysis	Grading	-Milling Index Calibration -Maize Meal Calibration -Yellow Maize Calibration
Nutritional Values	Nutritional Values	Nutritional Values	Nutritional Values	Maize meal quality analysis	Wheat flour	-Mycotoxin analyses for research study on characterising fungal communities
Rheological and baking tests (Wheat)	Rheological and baking tests	Rheological and baking tests (Wheat)	Rheological and baking tests (Wheat)	Grading	Maize meal	-Fortification analyses for new Regulations -Shelf-life studies on final wheat & maize products
Amino Acids, Vitamins, Minerals		Mycotoxins	Amino Acids, Vitamins, Minerals	ISO 17025 quality systems	Wheat colour	-Data mining of crop quality data -Investigation: recommended changes to maize grading regulations
Mycotoxins			Mycotoxins	Mycotoxins	Soybean and soybean meal quality	-Sampling devices evaluation

## FOCUS AREAS (CONTINUED)

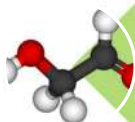
### The focus areas of the Crop Protection Division: PHYSICAL AND CHEMICAL STUDIES ON FORMULATED PLANT PROTECTION PRODUCTS



### 5-BATCH TESTING (OECD GLP OR ISO 17025)



5-Batch analysis is a regulatory requirement in the global Agrochemical Industry



Five or more batches of technical material, from a specific manufacturer, are analysed to determine the impurity profile and to assess the purity and concentration of the active ingredient



All relevant impurities (of toxicological significance) are quantified to ensure compliance with international specifications







This work is usually conducted according to OECD GLP (OECD Series on Principles of Good Laboratory Practice (GLP) and Compliance Monitoring)



## PRESENTATIONS

- *Investigation into effect of discolouration and water damage on maize quality* – MFSC Trade Group Meeting: February 2021
- *Maize flour calibration study on White Maize* – Global Grain Network Meeting: March 2021
- *The role of testing laboratories in food safety* – Food safety summit: June 2021
- *Mycotoxin monitoring – SA Maize and Wheat Crop Surveys* - Romer Labs (DSM) Webinar: May 2021
- *Feedback on wheat related activities* – Wheat Forum Meeting: September 2021
- *Feedback on sorghum related activities* – Sorghum Forum Meeting: October 2021
- *Feedback on maize related activities* – Maize Forum Meeting: October 2021

## POPULAR ARTICLES

	<ul style="list-style-type: none"> <li>• <i>The 100 g baking test evaluation score determination</i>, Theresa de Beer</li> <li>• <i>Local and imported wheat quality examined</i>, Jolanda Nortjé</li> </ul>		<ul style="list-style-type: none"> <li>• <i>Mikotoksiene – natuurlike (maar ongewenste) kontaminante onder die vergrootglas</i>, Hannaliën Meyer</li> </ul>
	<ul style="list-style-type: none"> <li>• <i>Improving quality control systems in the oilseeds industry, using proficiency schemes</i>, Wiana Louw</li> <li>• <i>Quality testing on grain and oilseeds: a vital link in the value chain</i>, Wiana Louw</li> <li>• <i>Registration and monitoring of agricultural remedies: the role of testing facilities</i>, Wiana Louw</li> </ul>		
	<ul style="list-style-type: none"> <li>• <i>Broodkoring – nuwe kultivars vrygestel</i>, Jolanda Nortjé</li> <li>• <i>Pre harvest grading proficiency schemes – what is the aim?</i> Wiana Louw</li> <li>• <i>Broodkoring – nuwe kultivars sien die lig</i>, Jolanda Nortjé</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Quality overview of the 2020 maize crop</i>, Jolanda Nortjé</li> <li>• <i>Maize discolouration and water damage – what is the impact on quality?</i> Wiana Louw</li> <li>• <i>Quality of local and imported wheat examined</i>, Jolanda Nortjé</li> </ul>	

## PROFESSIONAL AFFILIATIONS



### COMMITTEES:

Co-opted on various Industry Technical Committees  
Wheat Focus Editorial Committee

SA-RFTL Forum: SA-Regulatory Food Testing Laboratory Forum  
Technical Committees of the SA Winter Cereal Industry (SAWCIT)

# HUMAN CAPITAL

## VACANCIES AND APPOINTMENTS

**Vacancies**

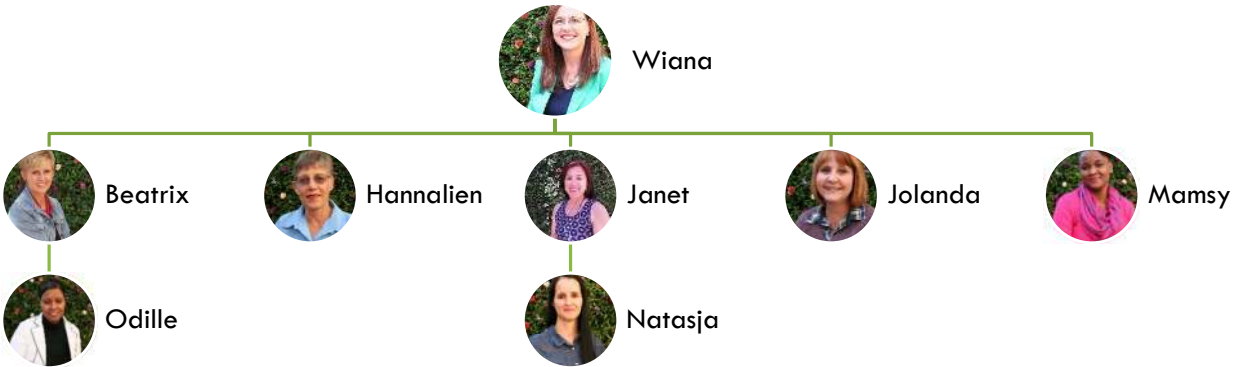
- Ilse Terblanche (Rheology) - deceased
- Marlize Hammes (Chemistry) - retired
- Zanele Skhosana (Nutrient) - resigned

**New appointments**

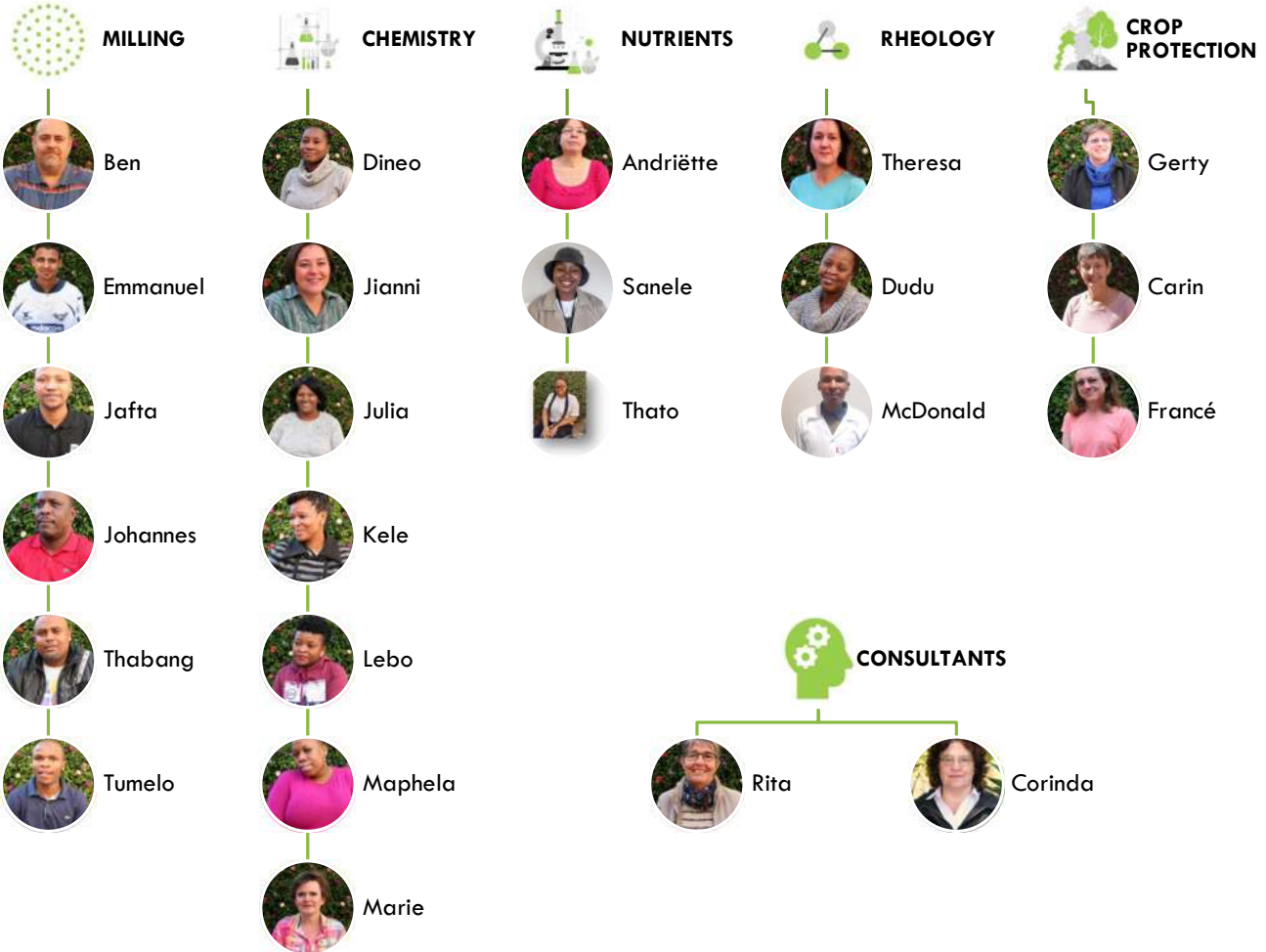
- McDonald Khoza (Rheology)
- Sanele Makhoba (Nutrient)

### MEET THE SAGL TEAM

MANAGEMENT AND ADMIN



LABORATORY ANALYSTS AND GRADERS



# PROFICIENCY TESTS OFFERED

In its capacity as reference laboratory for grains and oilseeds, SAGL offers proficiency testing to participants from South Africa and other countries in Africa. For the past four years SAGL has acted as the expert laboratory for the East African Proficiency Scheme (EAPT).

The participants use the Proficiency testing as independent assessments of their quality control measures to monitor equipment, personnel and analytical methods. These proficiency tests serve as a powerful tool for a laboratory or testing facility to demonstrate competency to stakeholders in the grain and oilseed sector. The proficiency tests offered by the SAGL are detailed below.

Please contact us for our price list and more information on check samples which we have available.

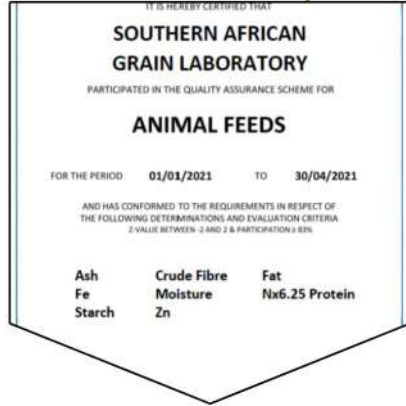
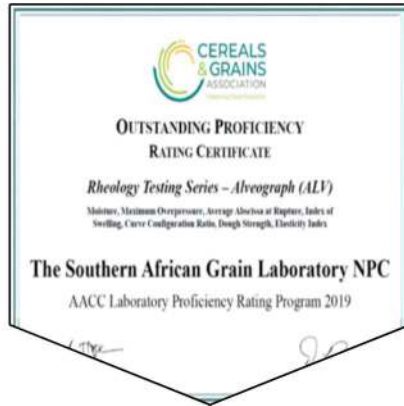
Contact Person: Theresa de Beer

Email: [Theresa.deBeer@sagl.co.za](mailto:Theresa.deBeer@sagl.co.za)

Tel: +27 12 807 4019

DESCRIPTION	INTERVAL	PRODUCT	LOCAL PARTICIPANTS	INTERNATIONAL PARTICIPANTS	COUNTRIES	TOTAL
SAGL Annual Pre-Harvest Maize Grading Proficiency Test	Per Season	Maize	-	-	-	-
SAGL Annual Pre-Harvest Soybeans Grading Proficiency Test	Per Season	Soya beans	14	-	-	14
SAGL Annual Pre-Harvest Sunflower Grading Proficiency Test	Per Season	Sunflower	14	-	-	14
SAGL Minolta Dry Colour Proficiency Test	Bi-monthly	White bread flour & Cake flour	10	1	Botswana	11
SAGL Maize Grading Proficiency Test	Quarterly	2 x White Maize 2 x Yellow Maize	7	2	Lesotho & Namibia	9
SAGL Maize Meal Quality Proficiency Test	Quarterly	2 x Super Maize Meal 2 x "Special" Maize Meal	3	3	Swaziland, Lesotho, Namibia & Botswana	6
SAGL Wheat Grading Proficiency Test	Quarterly	Wheat	16	2	Lesotho & Namibia	18
SAGL Wheat and Flour Proficiency Test	Quarterly	Wheat, Wheat flour & Brown bread flour	20	10	Ghana, Nigeria, Lesotho, Swaziland, Senegal, Namibia, Cameroon, Botswana	30

# COMPLIANCE CERTIFICATES AND AWARDS



# ISO 17025 ACCREDITATION AND OECD GLP COMPLIANCE

The scope of SAGL's accreditation is aligned with the needs of the Industry. It expanded over the years as regulatory requirement and needs changed.

Technical Signatories form the backbone of a successful quality system and the development and training of laboratory personnel to become technical signatories remains a primary focus of the SAGL since 1999 when the laboratory achieved its accreditation. SAGL prides itself in maintaining this solid foundation.



ISO 17025 Accredited Since 1999  
Scope: 22 Methods  
Technical Signatories: 15



ISO 17025 Accredited Since 2017  
Flexible Scope: HPLC & GC/GC-MS,  
Density  
Technical Signatories: 3



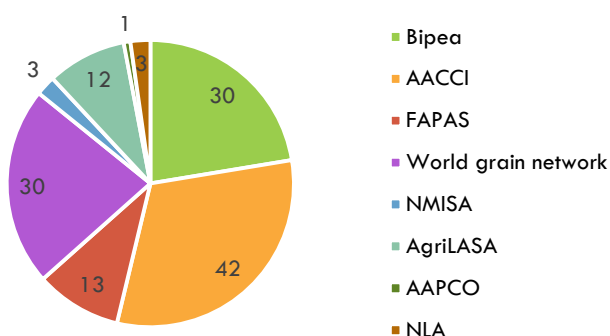
OECD Principles of GLP Compliant Since  
2017  
Study Directors: 2



## SANAS audits/inspections during 2020/2021:

- Crop Protection Division – ISO 17025 Audit: 28 October 2020
- Crop Quality Division – ISO 17025 Audit: 17 & 18 February 2021
- Crop Protection Division – OECD GLP Inspection: 24 & 25 November 2021

## PROFICIENCY PARTICIPATION



Participation in proficiency schemes, to demonstrate competence, is used to benchmark the laboratory to the international measurement system.

The SAGL annually analyse a total of 134 proficiency samples, 116 international and 18 local. These samples represent 630 different analyses.

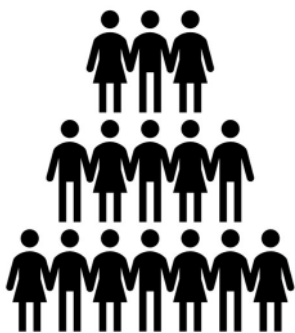
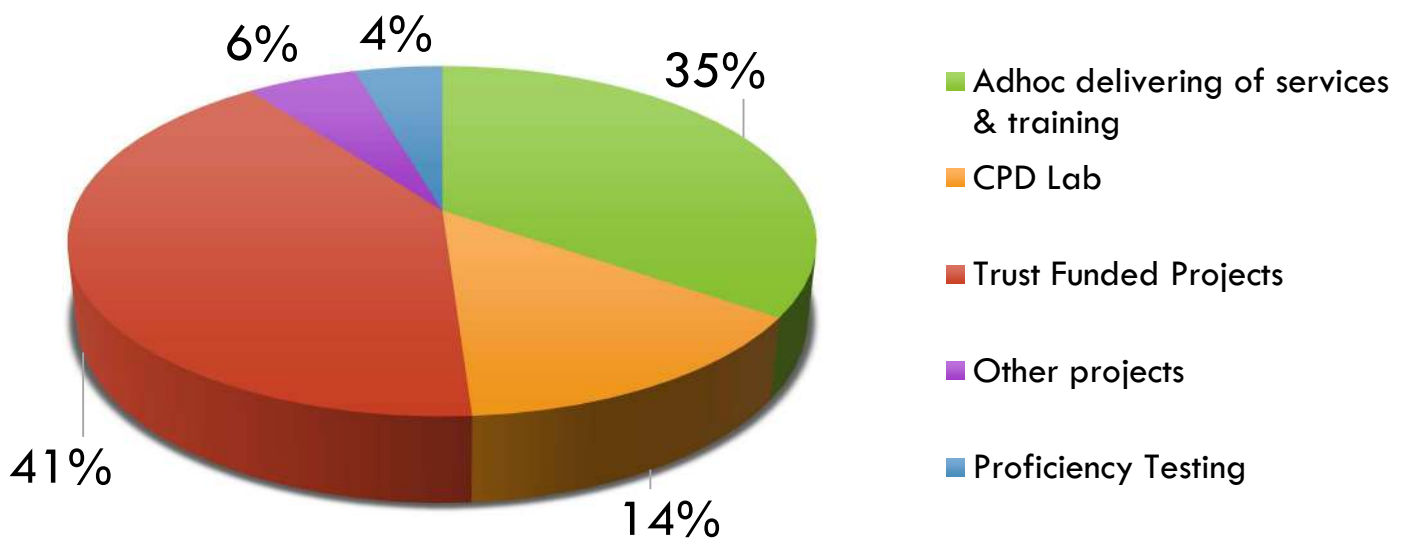


## FINANCIAL POSITION

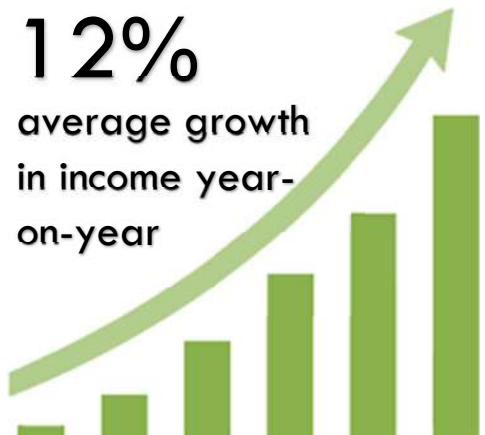
The annual financial statements were prepared on the basis of accounting policies applicable to a going concern. The directors believe that the company has adequate financial resources to continue in operation for the foreseeable future and accordingly the annual financial statements have been prepared on a going concern basis.

The directors have satisfied themselves that the company is in a sound financial position and that it has access to sufficient borrowing facilities to meet its foreseeable cash requirements. However, Capex is required to sustain the organisation. The directors are not aware of any material noncompliance with statutory or regulatory requirements or of any pending changes to legislation which may affect the company. The Independent Auditors' Report indicates no material inconsistencies between the Directors' Report and the audited financial statements.

## REVENUE SOURCES 2020/2021



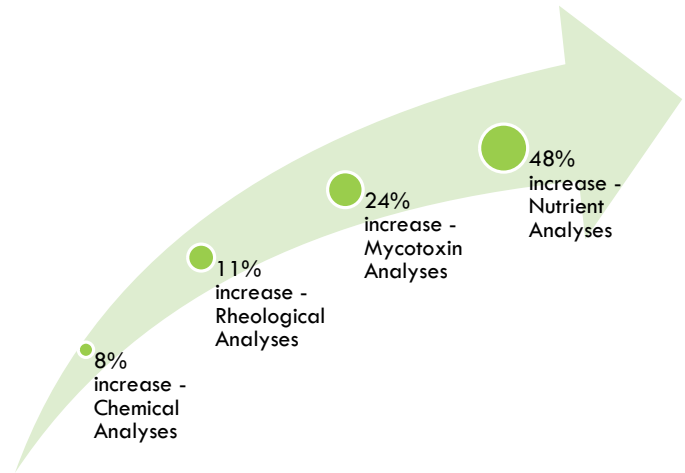
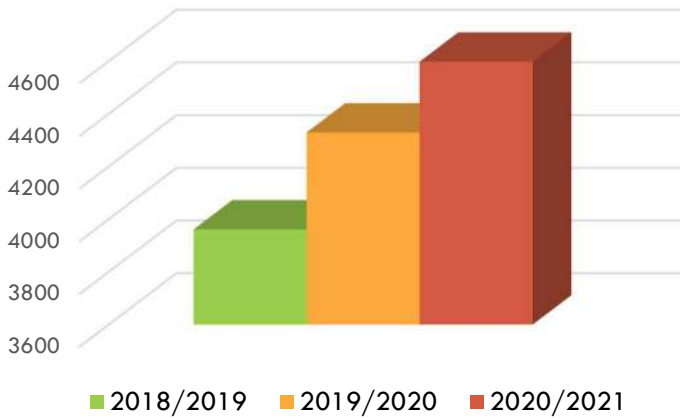
**651**  
LOYAL CUSTOMERS





# FINANCIAL POSITION (Continued)

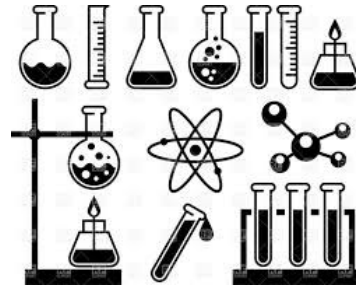
## CROP QUALITY DIVISION - SAMPLES REGISTERED



40,829



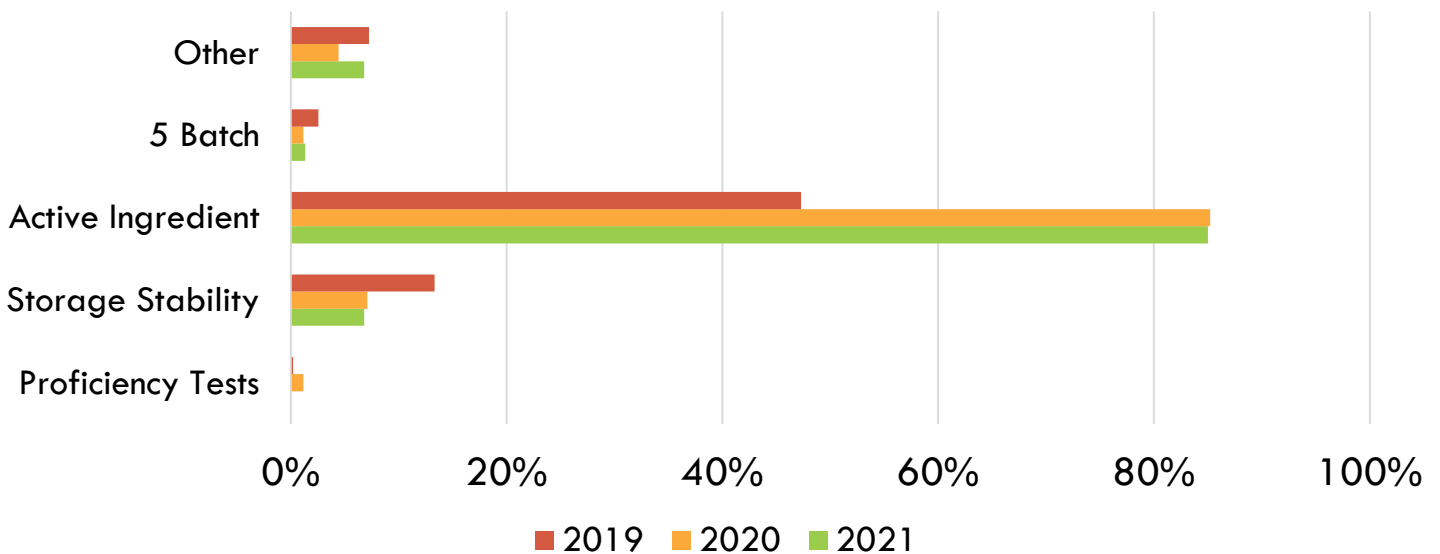
analyses conducted



338

studies registered in the CPD laboratory

## CPD - SCOPE AND VOLUME OF WORK



## CONCLUSION

The SAGL continues to pride itself as the reference laboratory of choice.

The relevance and reputational structure built over the years do differentiate it from the rest and positioned it amongst the world's best institutions.

This wouldn't have been possible without the industry's continued solid support for sustainability of its structures.

**The SAGL is  
committed...  
and will  
continue to  
support and  
enhance**

## ACKNOWLEDGEMENTS

Gratitude to fellow Board members for support, commitment, and strategic leadership. A special word of gratitude to Jannie de Villiers and Geoff Penny for their contribution over many years. We wish them all the best with the new phase in their lives.

To the Executive Committee members, thank you for all sacrifices and hard work. Lastly, acknowledge the ever-hard-working management team and staff for keeping the SAGL's flag so visibly high. Your courageous and concerted efforts are highly commendable.

**Mr. Boikanyo Mokgatle**

**Chairperson 2020/2021**