

# PublicSector

## MANAGER

THE MAGAZINE FOR PUBLIC SECTOR DECISION-MAKERS

PSM

JUNE 2017

### Youth Month focus

Trailblazing young women make their mark

### Defending peace

Lt Gen Derick Mgwebi heads UN mission in Congo

### National budget votes

Health and education in the spotlight

### Justice for all

John Jeffery on opening the courts to the people



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## Centenary celebration of Oliver Tambo

*"It is our responsibility to break down barriers of division and create a country where there will be neither Whites nor Blacks, just South Africans, free and united in diversity."*

(Source: SA History Online)

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# Building a foundation on which the youth of South Africa can flourish

**S**outh Africa is a young country, with a youthful population. As we head into a month where we celebrate the youthful fire that helped change the world, we are aware of the challenges today's youth face.

It falls upon our shoulders as leaders to build a foundation upon which the youth of South Africa can flourish. We understand that our investment in education and skills development for the youth is an investment in all of our futures. Through policy frameworks and partnerships we are laying the fertile soil for future growth.

The recently released Commission for Employment Equity Report shows we have work left to do. Black Africans remain a minority in top management in the private sector.

When we as a government speak of radical economic transformation, we mean creating an economy that has room for all South Africans. We mean growth that uplifts us all. We mean providing skills to our youth so that they are ready to move forward.

Government has changed its procurement rules: the public sector is compelled to set aside 30 per cent of the value of tenders bigger than R30 million for small enterprises. To bolster the growth of black-owned companies, the Department of Trade and Industry-administered Black Industrialists Programme will channel funds to companies in selected economic sectors to help diversify and grow the economy.

In May government released an anti-corruption discussion document. We aim to introduce measures to create resilient anti-corruption structures that will help us meet the goals we set out in the National Development Plan (NDP).

## Embracing innovation

We will ensure that the message gets out to government, business, labour and civil society. We are ready and able to uproot this blight that robs so many of the promise of this country.

South African, youth have proven themselves adept at harnessing the possibilities inherent in the ICT sector. They have built solutions to address continental problems. They have harnessed technology – despite an acknowledged

gap in technology standards – to make life better for themselves and all of Africa.


The young, as they did in 1976, have taken the lead in hurdling challenges in the commercial trade, agricultural and cross-border trade sectors. The young are the embodiment of the Africa Rising story. We will build on and continue to invest in sustainable innovation programmes that already exist.

Embracing innovation is an anchor of the NDP, one of the frameworks that guide our policy making. It talks, especially, about education, training and skills geared towards a knowledge society. This is a vision we South Africans share with the rest of Africa.

It is a vision expressed in the African Union's Agenda 2063, where the continent commits itself to "Investing in Africa's human capital for peace and development." Signatory governments to the African Union's Science, Technology and Innovation Strategy for Africa have committed to spend 1 per cent of available funding on research and development.

As it was with our liberation struggle, South Africa's future is bound up with Africa's. We encourage you to reach out to Africa. Network. Build relationships. Find common ground from which to work. We will give you the tools to forge the future we can all be proud of.

We will give you the tools, but we will not push you into the light. It is up to you to find your place under the African sun. It is up to you to step out of the shadows and walk into the spotlight.

As we celebrate Youth Month we acknowledge the inspiration you provide. To paraphrase a familiar quote: Your actions inspire us to dream more, learn more, do more and become more. You are the leaders. 

**Minister of  
Communications  
Ayanda Dlodlo**



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# Opportunities can create **confidence in our youth**

In just a few months South Africa will recall the fateful night 40 years ago that one of the country's greatest youth activists was taken from us. Steve Biko, who at 31 died from injuries inflicted by police on 12 September 1977 – a year after the Soweto uprising – will forever be remembered for his ideas on black consciousness.

These ideas remain as relevant today as they were back then. They underline the importance of nurturing self-worth – which the youth should be encouraged to develop if they are to help forge a positive future for this country.

In some ways however, the youth have cause to be despondent. Of those aged between 15 and 34, 37.1 per cent were unemployed in the fourth quarter of last year, 10.6 per cent above the national average, according to Statistics SA.

Only about half of learners that enter school sit the matric exam. This is compounded by the high dropout rate at technical and vocational education and training (TVET) colleges and universities. The "no fees" protests at universities have further complicated these challenges.

To address this, National Treasury allocated R5-billion more to universities in the budget this year, adding to the extra R32-billion made available last year. These allocations will also help grow student funding. Since 2012 more than two million university and college students have been funded by the National Student Financial Aid Scheme.

The Department of Higher Education and Training is also building more TVET colleges, with 12 currently under construction. The department is also seeking to

improve governance at colleges.

In addition, the department is steadily increasing the number of artisans the country produces, with the aim of reaching 30 000 per year by 2030 – and it is expected to have created about 21 000 artisans in the last financial year.

In April new procurement rules came into place that compel supply-chain officials in departments, municipalities and state entities to set targets to promote the participation of youth in state tenders.

The Industrial Development Corporation and the Small Enterprise Finance Agency have also set aside R2.7-billion to finance youth-owned companies. The Small Enterprise Development Agency has also rolled out 10 centres of entrepreneurship and four rapid incubators at TVET colleges to help youth to start their own businesses.

In creating work opportunities, the Expanded Public Works Programme has increased the intake of young people,

with over half of the two million work opportunities created since 2014 by the programme being taken by youth.

The employment tax incentive, where employers who hire youth relevant to their sector between the ages of 18 and 29 are paid a subsidy, has been claimed for over 800 000 jobs in 2014 and 2015.

Added to this, the private sector, through the CEO Initiative, is working to provide internships for unemployed youth across companies.

The youth are full of new ideas. But they need opportunities to help realise many of these. Such opportunities can help create a confident youth, able to forge the kind of consciousness we need to take the country forward. Biko would then be proud. ●



**Phumla Williams GCIS  
Acting Director-General**





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# Access to justice is increasing

Deputy Minister of Justice and Constitutional Development John Jeffery explains the multi-pronged effort the department is making to expand citizens' access to the justice system.

**D**eputy Minister of Justice and Constitutional Development John Jeffery says the thing he loves most about his job is being given the opportunity to make a difference in people's lives through justice.

"Justice really is the key that unlocks all the other rights in the Constitution. Often people don't know their rights or they don't know how to enforce their rights – that's where justice plays a pivotal role."

Deputy Minister Jeffery, who holds two law degrees and is an admitted attorney, adds that some of the things that his department has done includes building a new high court in Limpopo and renovating and refurbishing other courts around the country to ensure everyone has access to justice.

## Small Claims make a difference

The creation and rollout of Small Claims Courts across the country has been one of the Department of Justice and Constitutional Development's flagship projects. It has achieved nearly 100 per cent coverage countrywide, which means that there is a functioning Small Claims Court in every magisterial district in South Africa.

"These courts help people to access the justice system without the need of a lawyer and the service is rendered free of charge."

The aim of the Small Claims Court is to make justice inexpensive and accessible to those who cannot afford court fees. The maximum claim that can be brought to the court is R15 000. Use of these courts has increased.

"We also run various awareness programmes and 





community outreach events to alert communities of their legal rights and how to access justice services.”

Deputy Minister Jeffery said his department also runs various programmes that create constitutional awareness and human rights.

He said the department’s Public Education and Communication (PEC) section is responsible for providing public education and liaison services.

The PEC develops and updates comprehensive communication activities, both nationally and provincially, for continuous public awareness campaigns. Working with the Government Communication and Information System, the department’s various regional offices and other role players such as the National Prosecuting Authority (NPA), the South African Human Rights Commission and Legal Aid South Africa ensure that communities know their rights and know how to access and enforce them.

## Reducing backlog of cases

Deputy Minister Jeffery said various factors contribute to the backlog of cases. Causes include the non-attendance of court proceedings by the accused and witnesses. He explained that, on average, courts issue about 15 000 warrants of arrest a month due to non-attendance.

Other factors include incomplete investigations causing unnecessary delays and forensic analysis taking a long time.

“Not enough court capacity to deal with all the incoming cases and lack of sufficient numbers of judges, magistrates, prosecutors and legal aid representatives along with the availability of legal representation on trial dates remains a challenge.”

Additional capacity was created to deal with the workload at court level, the deputy minister said. “This is done as part of a comprehensive approach to rationalise the courts and improve their efficiency.”

He also said the Office of the Chief Justice now con-

trols case-flow management at national and provincial level.

“The judiciary has embarked on improving the effectiveness of the courts through judicial leadership in case-flow management and the development of norms and standards for courts that have been gazetted and apply to all judicial officers.”

The Chief Justice has established a national and nine provincial efficiency enhancement committees, which include all criminal justice stakeholders, to help oversee court performance.

“We have created more magistrate and court administration support posts in the past few years and also accelerated the filling of vacant magistrates’ posts.

“We have also, in conjunction with the Magistrate’s Commission, embarked on improving the processes relating to the filling of vacancies from the advertisement stage and interviews to appointment. The creation and filling of regional court magistrates’ posts is further being prioritised.”

In addition to the normal permanent court capacity, the department has also created additional backlog courts staffed by contract magistrates, prosecutors, administrative staff and legal aid representatives.

To deal with large numbers of outstanding cases that had existed for long periods of time, resources were allocated to centres where a specific need had been identified.

“This has been very successful in addressing and stabilising the backlog situation at many courts. At present we have 48 additional backlog courts that are providing additional capacity to deal with the workload.

“They comprise of 26 regional and 22 district backlog courts that are operational. In order to sustain this initiative we have, as part of our strategic approach, aimed to convert these backlog courts into permanent courts where required.”

He said in this regard 40 regional backlog courts

have been approved for conversion to permanent courts and 32 courts have already been converted, with others being considered.

Other measures that have been put in place to help deal with case backlogs include the use of Alternative Dispute Resolution Mechanisms (ADRM).

"The use of ADRM by the NPA to finalise cases has ensured fewer cases need to be dealt with at trials. The use has also increased owing to more accused successfully completing diversion programmes – both children and adults – and more suitable cases being identified for informal mediation."

Deputy Minister Jeffery said that Legal Aid SA does not have sufficient staff capacity to provide a practitioner to cover every court on a daily basis.

"Based on the demand generated at each court room, they have now aligned their supply of practitioners to the needs of each court room. In this way it is ensured that we are able to utilise legal aid practitioners more optimally, whilst at the same time responding better to the demands for legal aid services at court level."

In addition, during the second half of the last financial year, the Board of Legal Aid SA approved the implementation of a limited court relief programme at 33 justice centres to ensure relief when practitioners were not available.

## Tackling hate crimes and hate speech

Minister Jeffery said the Prevention and Combating of Hate Crimes and Hate Speech Bill is controversial.

"A hate crime bill has been in the pipeline for some time. What the bill does is take existing crimes and el-

evate them to make them more serious, as hate crimes. The example I like to use is that if you currently throw a brick at a mosque it will be malicious injury to property.

"But if it can be proved that you threw the brick at the mosque because you don't like Muslims then it can be taken more serious and can be seen as a hate crime. We have been working on this from

some time."

He said the hate speech element came through after the start of racist and offensive postings on social media.

"The bill has an exemption for art and expression, as long as it's not incitement to violence. You can

be a comedian but if you, for example, start inciting attacks on a specific group of people then it could be viewed as hate speech."

Deputy Minister Jeffery said when implementing the law it will require informing members of the public about its provisions.

"It's a criminal act so it will be up to the police and the prosecution authority to implement it." ●

**"At present we have 48 additional backlog courts that are providing additional capacity to deal with the workload"**

### This and that

*How do you relax?*

I enjoy listening to music and I like hiking.

*What is your favourite food?*

I love a good bunny chow.

*If you were not in government what would you be doing?*

I would probably write novels.

*What are your favourite holiday destinations?*

The Drakensberg and Thailand.

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**“We don’t speak enough to young entrepreneurs about how to manage a business.”**

# Collaboration is crucial to the work of CIPC

**C**ommissioner Advocate Rory Voller may not have set the Companies and Intellectual Property Commission (CIPC) on the road to using technology to make it simpler to start a business, but he is responsible for making the entity a highly evolved IT organisation. “We are a technology-driven organisation and we pride ourselves on that. If my systems go down for 15 minutes my phone won’t stop ringing.”

The commissioner is sitting in a boardroom at the national office of the Department of Trade and Industry’s Invest SA One Stop Shop. A few weeks prior the new space was overrun by school children who were guests of the CIPC for a World Intellectual Property Day event. Every year 26 April is set aside to celebrate the role of intellectual property in stimulating innovation and creativity.

Events such as these lie at the heart of Commissioner Voller’s management style and his belief in the importance of collaboration. Over the next year, working with the Department of Science and Technology, the Innovation Hub and NIPMO (the National Intellectual Property Management Office), the CIPC will be rolling out a programme to entrench the idea of innovation in youngsters.

## Educating children

“We do a lot of work in the university space because that’s where a lot of research and development takes place. But we need to start encouraging it earlier.

“There’s an organisation called the World Intellectual Property Organisation who have developed a programme on the full spectrum of innovation for school ➔

children on the full spectrum, on innovation.

"We work closely with Science and Technology. We work closely with NIPMO and the Innovation Hub. We are rolling out a programme in partnership with Science and Technology working with school children. We're starting out this whole issue of entrenching innovation among kids."

It's about education and changing culture, he says. Thinking back on the children he spoke to, he says many did not know that the Kreepy Krauly and Pratley Putty were South African inventions. Some did not know that the first heart transplant was performed in South Africa. And some were surprised to hear that South Africa has produced an entrepreneur like Elon Musk, a man busy disrupting multiple industries.

"Young people need to be shown, they need to understand the possibilities. Like I said to those kids, don't only think about being a lawyer, and don't only think about being a doctor. The world is moving. There is something called the Fourth Industrial Revolution, which is about new technology and being a disruptor.

"There are too many lawyers out there. I know. I am one."

## A passion for company law

Commissioner Voller has two law degrees, and had a career in the private sector before becoming a legal advisor at CIPC. He was a member of the team tasked with amending the South African Companies Act, the largest piece of South African legislation. "Amending is not the right word. Over eight years we changed it completely."

He speaks as passionately about company law as some speak about cars or brag about their golf swing. He understands that as dry as most find the subject, it remains important to ensure an entrepreneur's effort is not hijacked.

To help educate business, and young first-time business owners, Voller and his team collaborate with the Department of Small Business Development. "Remember the CIPC's mandate, our legislated mandate, is one of education. It's in the law. The Companies Act says we must actively go out. We run indabas and workshops on youth

empowerment and the empowerment of women. We get invited to youth seminars to educate entrepreneurs about company and intellectual property law."

He, and his team, are not expected to discuss the substance of running a business. The responsibility of explaining how to manage a business, about cash flow and contracts and banking is the responsibility of the Small Enterprise Development Agency. "We shadow them. We are there to encourage small businesses to register. We concentrate on the regulatory side and how to comply with the Companies Act."

## Technology is changing the world

The Invest SA offices at the dti campus in Pretoria gleams. Its staff are knowledgeable, friendly and accessible. It shares not only space with the CIPC but uses some of the entity's technology as well. Visitors are helped through the Commission's speedy and easy registration process.

Automation, as it proves every day at the Invest SA office, is the future. The Commissioner was an early adopter. With him leading, the CIPC is undertaking a major automation project. "I firmly believe the future of delivery of services to the people of South Africa lies in automation. Using technology, using automation and assisting them to use those tools. We have a large population that is not internet savvy. We need to assist them as well."

Straight through processing of companies, amendments to company information are tasks that can be done online on the CIPC platform. "We don't want people standing in queues for six hours to register a company. Business people have more important things to do, like running their business."

The advocate's passion for what he does is obvious – and infectious. He talks of the importance of giving his team – he never refers to them as staff – the tools to do their jobs.

He encapsulates his management style using three letters – PCT. People. Collaboration. Technology.

He leads a team of 500 and believes, as Richard Branson does, that you take care of your people. And they in return will take care of your customers.

"The other management principle I believe in is something I believe all government departments need to take cognisance of: collaboration. You can't do what we need to do by yourself so you must be able to collaborate. So I actively go out and look for collaboration partners."

## Protecting patents

Commissioner Voller does not believe in micromanaging his team. There are long-term projects where managers are responsible for success. "When you build competency into the team, let them do what needs to be done because they have a way of doing it."

Then there are strategic projects where he is more hands-on. Not because they are passion projects, simply because he believes success will make the CIPC better able to serve its customers.

"I'm driven by first-world technology and using that to improve the efficiency of the organisation. I'm also looking at where other countries are moving in terms of digitisation, automation and electronic services."

He, and by extension CIPC, have been appointed to the exco of the Corporate Registrars Forum. At this global forum he is part of discussions on beneficial ownership - "in other words, who owns what."

He is also part of the discussion on the modernisation of registries. As he tells his team, the CIPC has to keep evolving, keep getting better. "We need to improve continuously. And how do we do that? Through the use of modernisation tools, the internet, e-services. South Africa has one of the most modern registration systems in Africa. We are starting to play a meaningful role with our peers on the continent."

Commissioner Voller adds that the CIPC is more than just company registrations. They are responsible for patents, design trademarks, copyrights and intellectual property registrations as well. He begins to talk about another big project at CIPC, the Substantive Examination of Patents project.

The CIPC has always been an administrative body, without the mandate or skills to test the validity of new patent applications. But South Africa is now moving into a full examination site, with the CIPC as lead.



The dti's One Stop Shop offers new business a single venue for registration and information.

Registering a patent is expensive and time-consuming. If you invent a cell phone, the Commissioner says, you send it to a regulator to test that it is in fact new and unique. As an administrative body, the CIPC could not test claims, inventors had to go through a patent lawyer who sent the product for testing.

Once the CIPC begins accepting products for examination, inventors can go through them for testing and then lodge the patent with the global Patent Cooperation Treaty. "We'll be starting with biochemical, pharmaceuticals and agriculture. We've employed our first batch of examiners - PhDers and Masters in chemistry, youngsters running around the building. But we're gearing ourselves up. It's a huge project." ●



# SOCIO-ECONOMIC DEVELOPMENT



We give hope to underprivileged communities by making a meaningful difference through healthcare, educational and community based programmes.

**As South Africa marks Youth Month, Public Sector Manager celebrates five remarkable young women who are blazing a trail through traditionally male-dominated fields.**

# Female air force pilot makes history – and a difference

**T**he C-130 is one of the largest military aircraft in the South African Air Force. It's a rugged craft, able to land and take off from the roughest terrain.

For the first time in our history this tough plane is being flown by a black woman, Major Makhamnandi Zama.

At the age of just 31, Zama says flying the C-130 is all in a day's work.

"I am a professional, irrespective of my race and gender. I am here to do a job to the best of my ability."

She says the C-130 has the largest airlift capability in the SAAF.

"It's a very special aircraft to those who fly it. It has extreme durability and workmanship."

## The country at heart

Recently, Zama had to fly the C-130 in the Democratic Republic of Congo, making her responsible for the safe arrival of the craft and crew on board. She made a solid landing.

"It was a very satisfying feeling to upgrade to C-130 command. The making history part, I don't know," she says with a smile. "If it inspires someone else to want to do this work, then that is great."

Zama says military pilots are like all pilots, but with the major difference that they have the interests of the



country's sovereignty at heart.

"Military aviators are a unique group of people, with specialised skills and high demands made of them."

"Aviation is not easy. It requires an individual to strive to learn and want to improve their skills. I am still learning, a work in progress. Flying the C-130 is a great accomplishment.

"If this achievement also inspires other young people, that is a bonus."

## A girl from KwaMashu

Zama was born and raised in KwaMashu in KwaZulu-Natal. She joined the SAAF in 2003 after matric.

After her basic military training she enrolled at the SAAF Central Flying School, and got her wings in December 2006.

The next year she was transferred to her current posting, in 41 Squadron at

Waterkloof Airbase in Centurion.

In 41 Squadron, Zama has flown the Cessna Caravan, another craft designed for rough landings.

She has also piloted the Casa 212, used for VIP transport, paratrooper drop and logistical air support into other African countries.

"Flying a plane is not something you can explain in words," Zama says.

"You just have to be there to experience it."

## Dreams come true

Flying military aircraft gives her the opportunity to make a difference, Zama says.

"The country has been experiencing a drought, and we were part of the team transporting water to the most affected areas in the country.

"Also, in situations of poverty, we are part of food-relief missions. My job can be very rewarding."

As South Africa celebrates Youth Month, she says, she is proud to be one of the young people who have been given opportunities – thanks to the struggles of the youth of 1976.

"If people see me doing my job – and I am just a girl from KwaMashu – this is proof that anyone can make their dreams come true, with a little hard work." ➡

# Musawenkosi Saurombe: A PhD at 23

**W**hen most 16-years-olds were working their way through high school, Musawenkosi Saurombe was already at university.

Today 23-year-old Saurombe is one of the youngest PhD graduates in Africa. She was recently awarded her Doctorate in Industrial Psychology from North West University.

While her achievement is making headlines, for Saurombe it hasn't quite sunk in. "The feeling," she says, "is still somewhat surreal."

The attention has been unexpected, but an honour. "I am in absolute awe – not necessarily of the achievement itself but more the impact it has had on other women, old and young, and especially other Africans.

"I have received so much positive feedback, which has made me realise that this achievement is more massive than I ever imagined. That, for me, is gratifying. I feel so honoured."

## Bright spark

Saurombe was raised in Gaborone, Botswana. Her academic success began in primary school, when teachers noticed she was a "bright spark". Her school career was fast-tracked, and she matriculated at the age of 15.

In 2010 she began her BCom degree in Human Resource Management at the NWU Mahikeng campus, majoring in Industrial

Psychology. She was just 16.

"I completed my bachelor's degree in 2012 and graduated at age 19 in 2013. I immediately enrolled for my one-year Honours degree programme, from which I graduated at 20."

In 2014 Saurombe began her Master's degree. It should have lasted two years, but she successfully completed it in one – cum laude – at the age of 21.

"In 2015 I immediately enrolled for a PhD in Industrial Psychology," she says. She was given four years to complete the degree, but Saurombe had other plans.

"I finished the write-up of my thesis in a year and a half. I recently graduated after two years of official registration, at 23 years of age."

She says her achievements prove that for the African child, success is not a pipedream.

"I am convinced that if I can do it, others can do it too."

## Never be mediocre

Saurombe says the aim is never to be mediocre but to exert the maximum effort towards achieving any milestone.

"The more effort and seriousness you put in, the more you will get out of the experience."

The title of Saurombe's thesis was "The Management Perspectives on a Talent Value Proposition for Academic Staff in a South African Higher Education Institution".



"The focal point of the research was the psychological contract between the employer and the employee, encompassing the value offered to employees for the expertise and effort they offer to their employer, therefore ensuring a mutual relationship or contractual experience."

She takes great pride in her research. She says it was groundbreaking, the first of its kind to be conducted in South Africa.

Saurombe is currently doing her postdoctoral research and working toward an associate professorship.

Her message to young people during Youth Month is to believe in their dreams and reach for success.

"They should never shirk from pursuing their goals and dreams," she says.

"All you need is a dream. You don't have to fully comprehend how you will achieve it, but as long as you've conceived it in your mind, then you're one step closer to attaining it."



# Carbon calculator helps smallholder farmers

**V**anessa Barends is an agricultural specialist from the Overberg town of Bredasdorp who, at the age of 30, has invented a carbon footprint calculator to help small-scale farms determine their effect on the environment.

The tool will measure entity-level carbon emissions on a farm, and help farmers identify carbon hotspots on their property as well as their possible carbon tax obligations.

Life has not been smooth sailing for Barends, but her modest background has never been an obstacle.

Barends is determined to be a role model and pave the way for future young women from rural areas.

After matric, she started an internship with the provincial Department of Agriculture. Then, a bursary allowed her to pursue a Business Science degree in agricultural economics at Stellenbosch University.

Barends then enrolled in the Western Cape government's Young Professional Persons Programme, which helps black postgraduates develop their careers. This allowed her to complete her Master's degree. Her dissertation focused on the carbon footprint of farming activities.

## Breaking new ground

Today Barends is an agricultural economist at the Western Cape

Department of Agriculture. Her innovative idea is drawing the sector's attention.

Phase one entailed developing the prototype, with the help of a service provider, and completing the draft specifications for adapting the prototype to be more user-friendly. Users only need to fill in annual consumption numbers in the different categories, being shielded from complicated formulas and data.

"I am working on ways where data can be captured on a monthly basis so it's just easier for the farmer to export the data to the Excel tool. When the user is done with slotting in the data, the user can press 'submit' and an automatic two-page report will be generated."

The report will not be verified and accredited for the first phase. This will only happen if verification and accreditation are necessary, and if there is a service provider willing to take over the calculator, she said.

## Carbon footprint

"The purpose of this tool is firstly to be used as a guidance tool to direct the Western Cape Department of Agriculture in assisting smallholder farmers with their carbon footprint and also to act as a guidance tool to industry in constructing a more formal carbon calculator for small-



holder mixed farming systems," she stressed.

The tool will also help farming communities to hedge themselves against the proposed carbon tax and provide them with much needed information to plan for more efficient farming activities and reduced costs.

An added benefit is that the information generated by the calculator can help smallholder farmers identify and reduce emission factors that are prohibiting them from complying with both international and larger retailer "green" standards.

Making her mark in a largely male-dominated sector, Barends said her life's mission is to always make a difference.

"My passion and love for agriculture, the environment and people is the sphere that I want to be in.

"It's the sphere where I see myself growing and contributing." 🔄

# Giving hope to breast cancer survivors

**N**neile Nkholise is a visionary who is changing the lives of other women. The 27-year-old mechanical engineering graduate student has started a company that not only produces affordable breast prosthetics for women who have had mastectomies, but also employs young women with potential in engineering. From an early age Nkholise wanted to follow in the footsteps of her journalist brother.

But her mother had a different plan.

"Engineering was my mother's choice. I was introduced to the African Renaissance when I was in primary school and I fell in love with exploring Africa. After matric I wanted to be a writer, but my mother decided that I should go into mechanical engineering."

While some of her engineering classmates were dreaming of jobs in big companies, she wanted to take the road less travelled.

"I wanted to be a design engineer because I was creative and artistic. I wanted to explore that side of engineering."

"That's when my love for the arts came in. As I studied mechanical engineering, I started understanding that there is more to this profession than meets the eye. It's not just about cars or production," she says with a smile.



She has gone on to do great things. Her most recent achievements include being crowned the overall winner at the South Africa Youth Awards hosted by the National Youth Development Agency, and the winner in the Best Entrepreneur in Science, Technology and Innovation category. She also won Africa's Top Women Innovators Challenge 2016 at the World Economic Forum in Rwanda.

## Manufacturing prosthetics

After completing her BTech Mechanical Engineering degree at the Central University of Technology, Nkholise started a company called iMed Tech. It is currently incubated at the Innovation Hub, where it manufactures prosthetics.

She is now studying for a Masters' in Mechanical Engineering at the same university. Her research focuses on the

applications of additive manufacturing in medicine.

Her interest in manufacturing breast prosthetics was sparked when she and her male classmates were discussing facial prosthetics – no one mentioned breast prosthetics. "Being a woman and seeing so many lose breasts to cancer, I said someone needs to give answers to that."

Initially the company manufactured ordinary breast prosthetics, but they are now creating one that has a magnet and can be stuck inside a bra. "Those who use it can go to gym while it is still attached to their body".

Another reason Nkholise went into the area of breast prosthetics was to help women who could not afford breast reconstruction. "When someone has undergone a mastectomy, the option that person would have is breast reconstruction, and that is expensive. It can go over R120 000.

"We wanted to create an option where women can get a breast that is naturally fitting and has a feel of a real breast."

Since establishing her company she has created employment for four other young women, all under the age of 30. "One of the things I want to do is to empower young women in the field of engineering. I have a responsibility to skill as many young people as I can."

# Londiwe Ngcobo is making waves in maritime



**A**t just 29 Londiwe Ngcobo is ensuring South Africa complies with its international Safety of Life at Sea (Solas) obligations at the Transnet National Port Authority (TNPA).

Solas is a global maritime treaty that requires signatory states to ensure the ships carrying their flags comply with minimum safety standards in con-

struction, equipment and operation.

In South Africa Solas is governed by the South African Maritime Safety Authority. As TNPA's new marine compliance manager, Ngcobo is in charge of overseeing the programme.

Her task is to ensure TNPA employees are benchmarked against international compliance standards, ensure sea-time for in-house seafarers to upgrade their sea qualifications, and provide out-of-border dredging services to other ports in Africa and around the world.

"Rolling out Solas is a huge opportunity to broaden the reach of TNPA and its employees – showcasing our capabilities in ports around the world, and growing the capacity of TNPA's dredging services."

## No stranger to new challenges

Her appointment as marine compliance manager is an exciting opportunity, Ngcobo says. But it's not her first achievement.

In 2014 she was appointed Africa's first female dredge master. Dredging, she explains, entails excavating material from the seabed to make the port deeper, and relocating the excavated material elsewhere for disposal.

"If there were no dredgers ports would not be able to function."

After graduating from Durban University of Technology, Ngcobo's

journey began with an overseas cadetship where she had to get stuck in and apply what she had learned in her degree.

"The biggest challenge was getting into the dirty work," she says. "You just get handed a paintbrush and off you go! Most of the time I was the only female on board, but I was lucky that my crew were mostly South Africans, so I didn't have to struggle with the language barrier."

During her time abroad she also worked as a ship navigation officer. "It was good for me, from a practical standpoint – but also because I got to see the world. I got to explore different cultures, from the Far East to West Africa."

Returning to South Africa, she set her sights on a new challenge. "I wasn't aware that there hadn't been a female dredge master, but once I found out I made that my goal, my full focus and interest."

She credits her success to a sunny personality and a drive to succeed.

"You have to work with people the same age or older than your dad. Being young, you have to both show and command respect, and I think being a bubbly character helped me get the best out of the experience."

Ngcobo says she is seeing a lot of young women coming into the maritime industry, which means doors are opening for black females in particular. ●



# Guardians of THE CAPE FLORISTIC REGION –

*Diverse, unique, outstanding in natural beauty*

## *Safe in our hands, and yours*

*The Western Cape Nature Conservation Board, trading as CapeNature, is a public entity responsible for biodiversity conservation in the Western Cape. We've committed through best practices to minimise biodiversity loss, expand our protected areas and respond to climate change. People are central to our conservation efforts.*

The ongoing work we do in conserving the mountain catchments around our towns and cities ensures a steady flow of fresh potable water to the people of our province.

In addition, we aim to increase access to our protected areas for sustainable utilisation, research, recreational purposes, environmental awareness and for cultural, spiritual and traditional purposes. By providing opportunities for families and school groups to enjoy nature, we hope the youth, our future leaders, will develop a love for nature and an appreciation for the value of biodiversity.

We are strongly committed to social upliftment, providing opportunities for local economic development and job creation through our People & Conservation programme, encouraging the participation of historically disadvantaged groups.

*Our goal is to conserve our precious natural resources while providing access and encouraging economic development, ensuring the benefits of a sustainable biodiversity heritage for all the people of the Western Cape.*



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# Changing lives is the anatomy of Gray's career

**T**IME Magazine this year added South African-born Professor Glenda Gray to the 2017 TIME 100 list, an annual selection of the 100 most influential people in the world.

This international acclaim follows a string of other accolades including one of the highest orders in South Africa, the Order of Mapungubwe, bestowed on Gray.

Her story is one of dedication, commitment and passion to address health issues that have and still affect South Africans. In 1996, together with James McIntyre, she co-founded the Perinatal HIV Research Unit (PHRU) based in Soweto where they developed a world-renowned unit focused on HIV prevention and treatment.

She graduated in 1986 as a medical doctor from the University of Witwatersrand and in 1992 qualified as a paediatrician from the College of Medicine South Africa.

Internationally acclaimed for her work in HIV research, Gray has broken new boundaries, redefined scientific excellence and pioneered ground-breaking medical research that has shaped global communities and saved lives.

Currently head of the South African Medical Research Council (SAMRC), the country's premier medical research institution, Gray remains driven by ambition, a sheer sense of competitiveness and an evident passion for people. She will lead the SAMRC for a five-year tenure, which commenced in April 2014.

In 2002, when pregnant HIV-infected women were denied the antiretroviral drugs that would prevent the transmission of HIV to their babies, Gray and McIntyre were awarded the Nelson



**“When we measure our scientific productivity, we have an idea of our country's economic wealth and human development. The potential of science to progress the socio-economic context of a country is limitless.”**

Mandela Health and Human Rights Award for their work in response to the challenge.

Globally the medical community took note of their work and, in 2003, in recognition for their research and advocacy done to bring lifesaving antiretroviral therapy to mothers and people in need, Gray and McIntyre received the Heroes in Medicine award from the International Association of Physicians in AIDS Care.

"When you give a child an opportunity to grow up, free of ill-health, you give them hope to define a destiny of their own," says Gray recalling how HIV took from South African mothers the joy of seeing their children grow up.

In 2013 President Jacob Zuma bestowed on her one of the highest orders in South Africa, the Order of Mapungubwe, for her life-saving research in mother-to-child transmission of HIV that changed the lives of so many mothers and their children.

Since then Gray has been on a trajectory that has led her to become an internationally recognised leader in global health.

## Leading the SAMRC

"The South African Medical Research Council is a national asset that is globally known for its strategic impetus to respond to our country's disease burden," says Gray.

"Our team of internationally acclaimed scientists and investigators are pioneering, and understand the gravitas of their duty to the people of South Africa."

Gray is a dynamic leader who has set clear strategic agendas. She says the key strategic deliverables she is determined to achieve are to:

- train the next generation of scientists, and transform the cadre to reflect that of the country,
- direct research funding to historically under-resourced universities in the country,
- implement a programme to transform the organisation, and
- invest resources in growing the required critical mass of medical scientists to sustain the production of cutting-edge medical science to respond to the country's disease burden.

The SAMRC's 2017/18 Annual Performance Plan's targets for the year are to:

- achieve a fifth consecutive clean audit,
- increase the annual audited number of published journal articles from 500 to 700,
- spend only 20 per cent of the organisational budget on administrative support costs,
- increase the number of annual research grants from 120 to 168, and
- congratulate an estimated 55 postdoctoral students on completing their research in the financial period.

Generating this research contributes to the knowledge economy of the country.

"When we measure our scientific productivity, we have an idea of our country's economic wealth and human development. The potential of science to progress the socio-economic context of a country is limitless, so we need to invest our funds in our core business," says Gray.

Gray's leadership has transformed the investment streams in medical research in a constricted economic climate. As a public entity that relies on baseline funding from the National Department of Health and income streams from funders, the SAMRC's focus from 2018/19 to 2019/20 will be on implementing cost-containment measures while maintaining current research-funding commitments.

For 2017/18 funds have been allocated as follows: core research (R603 million); innovation and technology (R190 million); and capacity development (R58 million).

New strategies, introduced since the start of Gray's tenure in 2014, have delivered laudable results of redress. In 2012 funding for the largest section of grants was awarded as follows: 72 per cent white, 11 per cent Indian, 11 per cent African and five per cent coloured.

"We are transforming the way funds for research are being distributed by simply being committed to a transformed organisation. In 2015 our figures revealed that funding for our largest section of grants were awarded as follows: African 27 per cent, coloured 27 per cent, Indian 12 per cent and white 34 per cent", said Gray.

## Working for an AIDS-free generation

In the mid- 2000s Gray saw that the only path to an AIDS-free generation would be the development of



potent biomedical interventions. She turned her attention to HIV vaccine research, believing it was critical to ending the HIV epidemic, and focused her research on investigating potential HIV vaccine candidates.

As the Co-Principal Investigator (PI) of the National Institutes of Health-funded HIV Vaccine Trials Network (HVTN), an international network that conducts over 80 per cent of the clinical trials of candidate HIV vaccines globally, she provides leadership at global level with the HVTN PI, Larry Corey, and Co-PI, Scott Hammer.

Most notably, she spearheaded the clinical development of the South African AIDS Vaccine Initiative's HIV vaccines, the SAAVI DNA/MVA candidates, and conducted the first trial using these candidate vaccines in South Africa and the United States. In November 2016, an ambitious programme was announced to evaluate an HIV vaccine regimen in South Africa that, if successful, could be the first HIV vaccine to be licensed globally. Gray and her team are leading this trial, HVTN 702, the first HIV vaccine efficacy trial in seven years.

Gray also chairs the Global Alliance for Chronic Diseases (GACD) to lead research collaborations on chronic diseases worldwide. GACD is a collection of the world's largest public health research-funding agencies, which fund joint programmes targeting lifestyle-related or chronic diseases such as cardiovascular diseases, diabetes, certain cancers, lung diseases and mental disorders in low- and middle-income countries. It is the first collaboration of major research funding agencies to specifically address chronic non-communicable diseases.

"This position is about more than just influencing the global research and development agenda for non-



communicable diseases. We are at a juncture when our decisions will determine the extent to which we can take non-communicable disease interventions to scale," says Gray. "Ultimately each intervention must introduce resolve and change lives."

A global medical research trailblazer, results-driven leader investing her time intellect and passion into changing the lives of people, Gray is recognised as a global icon who draws admiration but also sparks inspiration in others. ●

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**Article provided by the South African Medical  
Research Council Communications Department**

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# JUNE IS ENVIRONMENT MONTH

**5 June**

**World Environment Day**

**Theme: Connecting People to Nature**

#Worldenvironmentday

#Withnature



**8 June**

**World Oceans Day**

**Theme: Our Oceans, Our Future**



**16 June**

**Youth Day**



**17 June**

**World Day to Combat Desertification**

**Theme: Our Land. Our Home. Our Future**



## CONNECTING PEOPLE TO NATURE

South Africa has declared June 'Environment Month' as it is the time of the year in which the country celebrates not only World Environment Day, but also World Oceans Day and the World Day to Combat Desertification and Drought. World Environment Day is the United Nations' most important day for encouraging worldwide awareness and action for the protection of our environment.

In South Africa, June is also Youth Month – an important part of the annual calendar as it celebrates the role of the youth in bringing to the fore the fight against democracy, and marks a time when youth – as the future leaders of our country – are exploit their potential in building a new, transformed society.

Through Environment Month, the youth are encouraged to get closer to nature, harness the promise it holds as they commit to building a climate resilient and healthier world for tomorrow. World Environment Day (WED) is the biggest, most globally celebrated day for positive environmental action.

Through WED, the UN Environment Programme (UNEP) flagship programme enables everyone to realise their responsibility to care for the Earth, and reminds one and all of their individual power to become agents of change.

The theme, as approved by the UN, implores all people to get outdoors and into nature, appreciate beauty and importance of the natural world, and

to take forward the call to protect the Planet. By embracing a healthy Planet, communities embrace a healthier population. The 2017 theme "Connecting People to Nature" further invites all members of the public, young and old, to think about how they can be part of nature and how intimately they depend on it.

It further challenges us to think about how we can collectively take action on environmental issues, such as harnessing the link between sustainable development and the environment. WED 2017 also encourages us all to find fun and exciting ways to experience and cherish this vital relationship we have with our natural world.



# GREEN BUDGET FOR A CLEANER AND GREENER SA

ON THURSDAY, 25 MAY, MINISTER OF ENVIRONMENTAL AFFAIRS, EDNA MOLEWA DELIVERED THE DEPARTMENT'S BUDGET VOTE SPEECH IN PARLIAMENT, CAPE TOWN.

THE BUDGET REFLECTS THE DEPARTMENT'S COMMITMENT TO LONG-TERM TRANSFORMATIVE DEVELOPMENT THAT IS ECONOMICALLY, SOCIALLY AND ENVIRONMENTALLY SUSTAINABLE AND AFFIRMS COMMITMENT TO THE COLLECTIVE ASPIRATIONS OF AGENDA 2063 OF THE AU.



The department has a three-pronged strategic approach to facilitate long-term radical transformation:

## **1. PHAKISA STRATEGIC APPROACH – PLANNING AND SUPPORTING THE GREEN ECONOMY**

By facilitating and supporting the planning and growth of economic activity in new and existing green sectors and greening less sustainable sectors, this will lead to greater investment, create jobs, and enhance our international economic competitiveness.

### **OCEANS ECONOMY**

A total of R17.7 billion in investment has been unlocked through the Operation Phakisa: Oceans Economy process in the five initially identified areas – offshore oil and gas, aquaculture, marine manufacturing and transport, oceans governance and tourism.





## BIODIVERSITY ECONOMY

In 2016 the Department of Environmental Affairs (DEA) together with the Department of Tourism, co-hosted a Biodiversity Economy Operation Phakisa Delivery Lab to accelerate the economic growth and job creation opportunities in the biotechnology and biodiversity conservation sectors, in particular through the ecotourism and wildlife sectors.

The Biodiversity Economy implementation plans target the creation of 100 000 jobs, and support for 4 000 new SMMEs by 2030.

## THE RECYCLING/CIRCULAR ECONOMY

The recycling/circular economy views waste as a resource with value once it is recovered, reduced, re-used and recycled; and provides the opportunity for beneficiation, enterprise development, and innovation.

Given the potential to significantly scale up green economy initiatives in this sector, DEA are preparing to host a Chemicals and Waste Phakisa that will see the Annual Waste Khoro for 2017 taking the form of a Chemicals and Waste Circular Economy Lab Programme.

## SUPPORTING BROADER INTEGRATED GREEN ECONOMY DEVELOPMENT

The department is implementing phase one of its Greenhouse Gas Emission Mitigation system to allocate carbon budgets to companies that are significant emitters of greenhouse gases.

South Africa's National Climate Change Adaptation Strategy that sets out programmes for responding to expected climate change impacts on the economy, society, and environment is in its final stages.

By 2016 South Africa's Renewable Energy Independent Power Producer Procurement Programme (REIPPPP) had already attracted over R200 billion in investment. The Department of Environmental Affairs supported this programme with Strategic Environmental Assessments.

In the past year, the department finalised authorisations for 124 renewable energy development applications, amounting to a total of some 55 000 megawatts of renewable energy, as well as development applications for some 43 Strategic Infrastructure Projects (SIP's).

## 2. ENVIRONMENTAL JUSTICE STRATEGIC APPROACH – ENHANCING THE REGULATORY SYSTEM

Developing the “one environment system” in the mining and water sectors has indicated many areas for improving and integrating the environmental regulatory system.

This has resulted in a comprehensive review of environmental legislation with the aim of improving procedural efficiency; reducing duplication and fragmentation, as well as standardising, streamlining and aligning legislative requirements.

This comprehensive regulatory review process addresses any emerging areas of concern, gaps or inadequate coverage in the regulatory system, including:

## CLIMATE CHANGE

The Department of Environmental Affairs is focussing on the domestic measures required to contribute to the global effort to pursue efforts to limit global warming to 2 degrees Celsius, and 1.5 degrees Celsius, as obligated by ratification, in November 2016, of the Paris Agreement to combat climate change.

## "THE BIODIVERSITY ECONOMY IMPLEMENTATION PLANS TARGET THE CREATION OF 100 000 JOBS, AND SUPPORT FOR 4 000 NEW SMMES BY 2030".

### CHEMICALS

Regarding chemicals, the department is phasing down Hydro-fluorocarbons (HFCs), in terms of obligations in the 2016 Kigali Amendment to the 1986 Montreal Protocol on Substances that Deplete the Ozone Layer and managing the public health and environmental impacts of mercury pollution, in terms of obligations in the Minamata Convention on Mercury signed in 2015.

The phase-out, import and export of hazardous chemicals and waste is being managed in terms of obligations in the Basel, Rotterdam and Stockholm Conventions.

### WASTE

The department is managing the detrimental impacts of plastics and the phase-out of micro-plastics in terms of UN General Assembly and UN Environmental Assembly resolutions, as well as the findings of a Plastic Material Study that will be conducted this year in collaboration with the plastics industry, the South African Bureau of Standards, the National Regulator for Compulsory Specifications, the National Treasury and Department of Health.

The appointment of independent operators to run clean-up and processing operations in the different waste management sectors will be done through an open and competitive tender system.



In conjunction with National Treasury the DEA will conduct a feasibility study into the option of a landfill disposal tax as a disincentive to landfill.

### BIODIVERSITY AND CONSERVATION

Implementing the decisions taken at the 17th Conference of Parties to the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), hosted by South Africa in 2016, will include:

Provisions to strengthen actions to combat illicit wildlife trafficking, improve protection of entire groups of species, empowering youth and closer engagement with rural communities.

Provisions to manage the international trade in hunting trophies and the trade in cycads.

The CITES listing of wild ginger and Temminck's pangolin.

The transfer of the Cape Mountain Zebra from Appendix I to Appendix II by CITES, which recognises a remarkable conservation success story – where a species has recovered from just less than 100 individual animals in the 1990s to over 5 000 in 2016.

The decision not to list South Africa's elephant population in Appendix I, that would have introduced a ban on the international commercial trade in wild elephant – a victory for scientific, evidence-based decision making.

The purpose of this comprehensive legislative review is to have more accessible, user-friendly and efficient decision-making tools.

To this end, the department is developing the following:

- A Consolidated Integrated Permitting System (CIPS) to provide a single environmental authorisation and permit application and processing interface.
- An EIA Screening Tool, integrated with the CIPS that will provide for an early focussing of assessments and accelerate the assessment and authorisation process.
- A Special Needs and Skills Development Programme to provide pro bono environmental services for individuals and



**"ALL COMPETENT  
AUTHORITIES  
PROCESSED 1266  
ENVIRONMENTAL  
IMPACT  
ASSESSMENTS  
(EIA'S) AT A  
96% EFFICIENCY  
RATE".**

organisations who cannot afford to pay for the costs of an Environmental Impact Assessment.

- A special initiative in plastic design to improve the recycling of plastic bags.
- A 5-year monitoring programme to intervene in support of local government in the management of the nationwide network of 42 air quality monitoring stations.
- An air quality offset programme to be rolled out by industries in the Vaal Triangle Airshed and Highveld Priority Areas.
- A National Biodiversity Offset Policy, in collaboration with the Departments of Mineral Resources and Water and Sanitation, to ensure that significant residual impacts of development, particularly in the mining sector are remedied.
- A national guideline towards the Establishment of Coastal Management Lines to protect coastal public property, coastal protection zones and infrastructure.

#### **SUCCESS STORIES**

In the last financial year, all competent authorities processed 1266 Environmental Impact Assessments (EIA's) at a 96% efficiency rate.

Whilst the poaching of South Africa's rhino remains of concern, there is a slow but steady decline in poaching numbers. This is thanks to the Integrated Strategic Management of Rhinoceros approach approved by Cabinet in 2014, supplemented by a Rhino Conservation Lab in 2016 to enhance collaboration between government, the private sector and NGOs.

#### **3. ECONOMY-WIDE SERVICE DELIVERY STRATEGIC APPROACH – IMPLEMENTATION AND INVESTMENT**

The National Green Fund continues to support investment projects, research and development and capacity development initiatives across the green economy.

The government has to date allocated R1.2 billion to the fund, creating approximately 6 620 direct jobs.

One such project being supported by the fund is the construction of the flagship Hammarisdale Waste Beneficiation centre in KwaZulu-Natal, which will maximise waste diversion from landfill through innovative recycling technologies.

Phase 1 of this project, that is being run by a non-profit called USE-IT, will lead to the creation of 153 permanent jobs, as well as 80 construction jobs. Since its inception, USE-IT has created 2 400 jobs from waste beneficiation and has won a number of national and international awards.

However, the onus to create green jobs cannot be on government alone. In this regard, forging partnerships and incentivising private sector investment, both domestically and internationally, is key.

These partnerships include, but are not limited to:

- The Partnership for Action on Green Economy (PAGE), that seeks to put sustainability at the heart of economic policies and practices.



- The Switch Africa Green partnership that is implementing innovative pilot renewable energy projects.
- In February 2017, SANParks convened its first ever Tourism Investment Summit to explore public-private partnerships.
- The United Nations Environment Assembly (UNEA), the Global Environment Facility (GEF) and the Green Climate Fund (GCF).
- The Development Bank of South Africa and the South African National Biodiversity Institute (SANBI) have been accredited as implementing agencies for both the GEF and GCF and are now able to process finance applications for climate change adaptation and resilience.
- Cooperative engagement in Multilateral Environmental Agreement bodies to advance the environment, climate change, and sustainable development agenda.
- Cooperative engagement within the African Union and SADC; fostering bilateral relations with key African countries, and strengthening South-South Co-operation within key emerging developing markets such as BRICS.
- Cooperative engagement in research in Antarctica continues, in collaboration with the Departments of Science and Technology and International Relations and Cooperation.

The network of National Parks and protected areas provide the base infrastructure for a growing eco-tourism and wildlife use sector. In the last financial year, South African National Parks (SANParks) received 6.7 million visitors into its 19 parks generating approximately R2.6 billion. To ensure that the National Parks are accessible to all South African citizens, over 91 000 people were granted free access to National Parks during the 2016/17 financial year.

The Protected Area Expansion Initiative builds up the base ecological infrastructure supporting this growing wildlife economy over time while enhancing the biome range to allow for species migration and contributes towards mitigating the impacts of climate change. In 2016 a total of 3 874 hectares were added to National Parks and plans are underway to acquire 3 569 hectares next year.

R213 million was used to support SMMEs in National Parks and neighbouring areas in 2016. In order to develop coastal



communities, regulations re-zoning Tsitsikamma Marine Protected Area (MPA) allowing for controlled fishing in 3 'take' zones (comprising 20% of the MPA coastline) has been gazetted.

In support of growing the eco-tourism and wildlife use sector, South Africa has submitted applications to UNESCO for them to consider designating the Garden Route as a Biosphere Reserve, as well as listing the Khomani Cultural Landscape and the Barberton Makhonjwa Mountains on the World Heritage List, in June 2017 and October 2018 respectively. These prestigious international designations will boost local eco-tourism development and provide job creation opportunities for rural communities.

**"91 000 PEOPLE WERE  
GRANTED FREE ACCESS  
TO NATIONAL PARKS  
DURING THE 2016/17  
FINANCIAL YEAR."**

The Department of Environmental Affairs remains committed to the conservation of our natural environment, the protection of public and environmental justice and health and promoting inclusive growth that creates jobs and grows our economy.



**environmental affairs**

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REPUBLIC OF SOUTH AFRICA

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# Government's revival of industrial parks gives EC a boost

Industrial parks were once hubs of economic activity across the Eastern Cape province and it is hoped that their revitalisation will lead to broader economic and industrial development.

**T**he government's Revitalisation of Industrial Parks Programme spearheaded by the Department of Trade and Industry (the dti) brings hope of generating thousands of jobs around the country while creating opportunities for small and medium enterprises.

Minister of Trade and Industry, Dr Rob Davies, along with Eastern Cape Premier Phumulo Masualle and Eastern Cape MEC for Economic Development Sakhumzi Somyo, launched the Komani Industrial Park revitalisation programme in Komani in November. The Komani site is one of 10 industrial parks around the country that the dti has prioritised for revitalisation as part of the programme.

Davies said the first phase of the Komani project – which covered security upgrades – was done in collaboration with the Chris Hani Development Agency. The dti's investment totalled R22.5 million.

In May this year, the Eastern Cape government and the dti launched the Vulindlela Heights Industrial Park revitalisation programme in Mthatha. Government spent a further R20 million on the revival of infrastructure to enable the industrial park to accommodate more tenants.

Although it is yet to be launched, the Dimbaza Industrial Park is already attracting tenants who manufacture well-known brands. The revitalisation programme has also laid

the foundation for a trailblazing black-owned company to expand its operations, boost its production and create more jobs. The majority black-owned Ikusasa Green manufactures high-end cooler boxes for the Massmart Group and is expanding its operations to a facility in Dimbaza ahead of the official launch of the industrial park.

## International clients

Ikusasa Green's expansion follows a R9 million injection from the Eastern Cape's Department of Economic Development, Environmental Affairs and Tourism (DEDEAT) and a further R12 million from the Massmart Group, which is the home of Game, Macro and Dion, among others.

This means Ikusasa Green, which has a 70 per cent black shareholding, has attracted a total of R21 million in investment from the private and the public sector since its inception in 2013.

The company's expansion to the 12 000-square-metre facility in Dimbaza is well aligned with government's industrial parks revitalisation programme. Eastern Cape MEC for economic development Sakhumzi Somyo explains that industrial parks were once hubs of economic activity across the province.

Ikusasa Green managing director Thami Gxowa said DEDEAT has been involved in the company's growth and development since its inception. The department provided an initial capital injection of R3 million to help source equipment for the company's rotational moulding plant in Stutterheim.

DEDEAT later injected another R3 million to boost plant capacity and a further R3 million to rehabilitate the Dimbaza facility.

The company prides itself on its high-end products. Its cooler boxes can retain ice for up to seven days and are so successful that a deal has since been struck to

diversify Ikusasa Green's range of cooler boxes for the Massmart Group's flagship Camp Master brand.

"This (investment from DEDEAT) allowed Ikusasa to attract quality clients such as Massmart," said Gxowa. "The relationship grew because of the quality of our products which gave us the opportunity to expand our Dimbaza product line into injection moulded cooler boxes for Massmart. Massmart invested in tooling the Dimbaza plant as part of its supplier development programme."

The expansion to the Dimbaza Industrial Park has seen the company's employment increase from 35 to 75 people, all of whom were previously unemployed.

The investment from the Eastern Cape government and the Massmart Group will also enable Ikusasa Green to increase output and diversify its production methods, Gxowa said.

"We are now going to be able to use injection moulding in Dimbaza, which requires a heavy capital base but it will assist us to pump up volumes. In Stutterheim, we use rotational moulding (roto-moulding), which is a slower process and a bit expensive for high-end products," Gxowa explained.

Gxowa said the company's star attraction is its in-house high-end rotational moulding Römer cooler

boxes, which are robust enough for African conditions.

"The Römer cooler boxes can preserve ice for up to seven days. Our only competition is cooler boxes from Australia and the United States which are not cost competitive," said Gxowa.

The company's latest range includes 45- and 60-litre cooler boxes as well as the econo-range of 25-litre and 40-litre coolers with prices ranging between R900 and R1 500.

"We are particularly pleased that Massmart also commissioned us to produce these high-end cooler boxes under their private Safari Camp Master label in 

**"All this work is concerned with the revival of industrial and economic activity in areas such as Butterworth, Vulindlela in Mthatha, Komani and Fort Jackson in Mdantsane outside East London"**



45 and 60 litres. Massmart has invested R12 million into Ikusasa and in Dimbaza. We are manufacturing the more affordable 50-litre injection-moulded Camp Master cooler box for them, as well as a 30- and 12-litre family pack with better ice retention. In Dimbaza, we are also making the ammo-crate storage box for camping for Massmart," Gxowa said.

## Millions in investment

DEDEAT said a master plan drawn up by development financier the Eastern Cape Development Corporation (ECDC) for the revitalisation of the Dimbaza Industrial Park was in its final stages of approval by the provincial cabinet.

This will make Dimbaza the third revamped industrial park in the Eastern Cape after Komani and Vulindlela parks in Komani and Mthatha respectively.

"We are delighted to have been able to attract an innovative and purely Eastern Cape company like Ikusasa Green to drive our plan of attracting high-quality investments and companies to the Dimbaza Industrial Park to drive economic activity and employment. Ikusasa develops a product with a unique value proposition in South Africa and as a province we are proud that it has attracted interest and investments running into millions of rands from retailers such as Massmart," said Somyo.

He added that government's aim for the Dimbaza In-

dustrial Park is to attract innovative investors in general manufacturing as well as the agro-processing sectors.

"ECDC, as the province's economic development agency which owns the Dimbaza Industrial Park and which currently has 107 stands on behalf of government, will be the main driver of the revitalisation process of industrial parks across the Eastern Cape. Dimbaza currently has 24 tenants in sectors such as textiles and manufacturing," MEC Somyo said.

ECDC chief executive officer Ndzondelelo Dlulane says its support of tenants such as Ikusasa Green at its Dimbaza Industrial Park is part of a broader industrial park revitalisation strategy in areas such as Butterworth, Vulindlela in Mthatha, Komani and Fort Jackson in Mdantsane outside East London.

"All this work is concerned with the revival of industrial and economic activity in these areas. Dimbaza was once an industrial hub for King William's Town, generating significant employment opportunities. Supported by partners such as the dti, the Eastern Cape Rural Development Agency and the Buffalo City Metro, among others, government has made it a priority to revitalise economic activity in Dimbaza.

"We are mobilising potential anchor tenants who will occupy the park and negotiations with local entrepreneurs are ongoing. We are specifically targeting business in the agro-processing, renewable energy and general manufacturing sectors," said Dlulane. ●





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# Fast facts at your fingertips

**T**he newly released South African Demographic and Health Survey (SADHS) covered fertility, nutrition and family planning among other health-related issues. What the research shows is that more citizens are accessing public services. Government health policies are bearing fruit.

## Fertility

- South Africa's average fertility rate has dropped from 2.9 children in 1998 to 2.6 in 2016.
- For women in urban communities the rate is 2.4, while there are 3.1 births for every woman in rural areas.
- The percentage of childless

women who did not want a child increased from 5.7 per cent in 1998 to 13.3 per cent in 2016.

- By the age of 19, 28 per cent of girls have begun having children.
- The teenage pregnancy rate has remained at around 71 per cent, but fewer 19-year-olds are having babies.
- The more children a woman has, the more likely she is to not want more: 50 per cent of women without children want a child, 37 per cent with one child would like another, and 13 per cent of women with three or more children do not want more children.
- Nine percent of women surveyed

reported they could not fall pregnant.

## Mortality

- South African infant mortality rates declined by 20 per cent between 1998 and 2016. Child mortality rates declined by 28 per cent in the same period.
- In 2016, 96 per cent of children were delivered in a clinic, compared to 83 per cent in 1998.
- The proportion of pregnant women who receive antenatal treatment from a medical professional at least once during their pregnancy is 93.7 per cent.
- Gauteng has the lowest number of women who receive at least four antenatal consults, 62 per cent, where the national average is 89 per cent.
- Women in rural areas are more likely to receive more than four antenatal visits.

## Child health and nutrition

- Vaccinations have been administered to 95 per cent of South African children but in Mpumalanga 10 per cent of children between the ages of 12 and 23 months have not had any vaccinations.





- The percentage of girls receiving vaccines was 59 per cent, while the rate for boys was 64 per cent.
- Chronic malnutrition remains an issue in the country: 27 per cent of children under the age of five were considered stunted and 10 per cent were severely stunted. Stunting was found to be more of an issue among boys (30 per cent) than girls (25 per cent).
- A mother's level of education and financial wealth are both indicators of the likelihood of infant stunting. For example, 36 per cent of children in the lowest wealth quintile are considered malnourished with the number decreasing to 24 per cent in the middle quintile and 13 per cent in the highest wealth level.
- On the other end of the spectrum, 13 per cent of South African children are overweight (more than double the international average of 6.1 per cent).

## Sexual behaviour and contraception

- Sexual patterns are starkly different between men and women in South Africa. Just 5 per cent of women report having two or more partners in the preceding 12 months and 45 per cent had intercourse with a partner who did not live with them or was a spouse.
- In the 15 to 49 age group, the average number of sexual partners for men is 15, and for women is four.
- Seventeen per cent of men in



## Alcohol and tobacco

- One in every four girls has tried alcohol by the time they are in the 15 to 19 age group, between one and three have done so in the 20 to 35 age group but the incidence drops to one in five by the age of 65.
- Five per cent of women reported risky drinking namely five or more units of alcohol in a single occasion in the preceding 30 days.
- Risky drinking in men rises with age: the figure of 12 per cent of men in the 15 to 19 age group increases to 31 per cent in the 20 to 24 age group and rises to 36 per cent in the 25 to 34 age group before gradually declining.
- The number of South Africans who smoke has gradually declined since 1998 when 11 per cent of women and 42 per cent of men smoked. Today, seven per cent of women and 37 per cent of men smoke.
- Smoking is more prevalent in urban (39 per cent) than rural (31 per cent) areas. More men smoke in the Northern Cape (44 per cent) than in Limpopo (25 per cent).

the 15 to 49 age group reported having two or more partners and 55 per cent had intercourse with someone who was neither a spouse nor lived with them.

- Ninety three per cent of South Africans are aware of HIV/AIDS and that you can get tested. However, in the 15 to 24 age group, 31 per cent of people

have never been tested.

- Fifty four per cent of women in the 15 to 49 year age group use contraception and 44 per cent of them report being in control of the type of contraception used.
- Among sexually active women 15 per cent have an unmet need for contraception. ○

## Southern African Transport Conference 2017

### 10 – 13 July 2017

The Southern African Transport Conference brings together more than 700 transport professionals to discuss, debate and learn about topics related to the transport sector.

The annual conference has become an important contributor to the national debate about transport in Southern Africa.

Now in its 36th year, the conference – under the theme “Southern African solutions to public transport challenges” – will look at the benefits of safe and reliable public transport. Plenary and breakaway sessions will look at infrastructure development and how urban and rural public transport has the capacity to affect day-to-day living in a positive way.

This conference will be of particular interest to municipal and provincial employees, policy and decision-makers, academics, researchers, students and professionals active in the planning, construction, manufacturing, logistics, operation and safety of passenger and freight transport, road traffic, rail, ports, maritime and aviation.

End-users will also find the conference of interest.

The Southern African Transport Conference 2017 is on at the CSIR Convention Centre in Pretoria, Tshwane, from 10 – 13 July.

For more information visit: [www.satc.org.za](http://www.satc.org.za)

## EDUWEEK

### 12 – 13 July 2017

Now in its 11th year, this two-day conference and exhibition hosts more than 180 of the most important service providers in the field of education. Speakers will cover topics from Early Childhood Development through to vocational and higher education.

EDUWEEK is an opportunity for government, heads of learning institutions, educators and industry specialists from across Africa to meet, network and share knowledge. Practical seminars and hands-on demonstrations with breakthrough technologies and products will prove educational for attendees.

This year's free-to-attend conference sees a greater focus on the Global Sustainability Goals. The national development theme for this year is Education: Africa's path to a sustainable future.

Conference sessions will cover Africa's role in achieving the UN's Global Development Goals, and how South Africa's National Development Plan can provide a path to educational transformation and democratisation. Delegates will also unpack educational case studies from across the continent with lessons on overcoming challenges in practical and sustainable ways.

EDUWEEK takes place from 12 – 13 July at the Gallagher Convention Centre in Johannesburg.

For more information visit: [www.educationweek.co.za](http://www.educationweek.co.za)

## POWER-GEN & DistribuTECH Africa | 18 – 20 July 2017

This premier Africa-based conference covers every aspect of the sector – from strategy to technology, from renewable energy to the transmission and distribution of power.

POWER-GEN & DistribuTECH Africa is where industry experts exchange ideas and companies unveil technology capable of creating a brighter future for African power generation.

For Eskom, the host utility for the annual event, the conference is an opportunity to listen to and engage with industry and international academics around the growth of renewables and alternative energy sources, including nuclear. It is also an opportunity for the South African

utility to help raise public awareness of issues within the sector.

Keynote speakers include Minister of Public Enterprises Lynne Brown, managing director of ABB Southern Africa, Leon Viljoen, and managing director GE Power Services Sub-Saharan Africa, Elisee Sezan.

This year differing market models, financing, decentralised energy solutions, energy storage and the digitisation of power engineering will be discussed.

POWER-GEN & DistribuTECH Africa is on at the Sandton Convention Centre from 18 – 20 July.

For more information visit: [www.powergenafrika.com](http://www.powergenafrika.com) 





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# Youth volunteers

## help others – and themselves


**T**he National Youth Development Agency and the government of the Flemish region of Belgium hosted the first Youth Volunteer Network Conference in Pretoria recently.

The conference theme was "Increasing Youth Volunteering in Civil Society Organisations". At the event, Deputy Minister in the Presidency Buti Manamela spoke of the South African and Flemish governments' shared vision of

both uplifting youth and helping them uplift their communities.

The deputy minister pointed out that local NGOs offered young people both help and opportunities. The youth, he said, should "consider volunteering their time to acquire more skills and help reshape the country".

Deputy Minister Manamela highlighted the importance of civil society in the development of youth. Volunteering

A portrait of Deputy Minister Buti Manamela, a Black man with short hair and a light beard, wearing a dark suit, white shirt, and a green and white striped tie. He is looking slightly to the right of the camera with a thoughtful expression.

**"Civil society has shaped the content of the cooperation and has often anchored collaboration."**

was key to building social cohesion, and active citizens more likely to help make concrete the vision of a united nation.

"Civil society has shaped the content of the cooperation and has often anchored collaboration," he said.

"The cooperation over the last two decades would not have been successful without the involvement of civil society. Their participation has ensured that the cooperation is vibrant and remains relevant to youth development challenges."

## Youth are the building blocks

NYDA Chairperson Sifiso Mtshweni said South African youth should be at the centre of everything that government and civil society do. He pointed out that almost two-thirds of South Africans – 66 per cent – were youth. They needed opportunities to make them worthy inheritors of the nation.

He said government was aware of the challenges young South Africans faced. For this reason, the National Development Plan placed them at the centre of development.

"The youth represents a powerful resource for our country, provided effective youth-focused programmes are implemented so that the youth can become active members of society," said Mtshweni.

"In the absence of employment, volunteerism provides a platform to access skills development."

## A history of cooperation

Sven Gatz, the Belgian Minister for Culture, Youth and Media Affairs, said he had volunteered from the age of 16 through to his late 20s. "There is an automatic educational surplus to volunteering, in that volunteers are involved in various projects and activities in which they have to learn."

South Africa and the Flemish government have cooperated on youth policy since 1996. For both governments, encouraging youth to volunteer feeds into similar visions on youth development and involvement in civic society.

"Over the years, we have jointly explored youth recreation development, local youth policy, youth and the arts and youth volunteering."

## Making it simpler to gain experience

Cooperation between the two governments is based on four pillars that, it is hoped, will upscale and promote youth volunteering. These are capacity building, knowledge generation, marketing and communication, and lobbying and advocacy.

According to Deputy Minister Manamela, capacity building focuses on strengthening the capacity of civil society organisations and volunteers in order to increase the quality of the youth volunteer experience and the quantity of young volunteers.

"We are concerned about the resource allocation to civil society organisations for the funding of youth service programmes. The framework recognises this impediment. Within the tight fiscal environment that we find ourselves in, we will make a principled, evidence-based argument for more public and private resources to support youth service programmes."

## Revised National Youth Service

For unemployed youth, the biggest stumbling block to finding work is gaining the skills they need for employment. Government is revising its biggest youth work programme to improve its effectiveness and reach.

The National Youth Service (NYS) draws young people into programmes that benefit their own communities. At the same time, it improves their skills and education. More important than the opportunity to earn an income, the NYS teaches young South Africans the discipline to begin a task and see it through to the end.

"Volunteering helps youth break the poverty cycle by facilitating access to decent work," Mtshweni said.

"Youth who volunteer can develop young leaders to take responsibility, foster social cohesion, encourage greater citizen participation, generate respect for equality, promote diversity and develop individual and collective voices." ○

## MEASURING THE STATE OF SOUTH AFRICA'S NATURAL WORLD – THE NATIONAL BIODIVERSITY ASSESSMENT

South Africa is home to an amazing array of animal and plants, making up world-renowned natural ecosystems. The South African National Biodiversity Institute (SANBI) is a custodian of this life, appointed in terms of the National Environmental Management: Biodiversity Act to monitor and report regularly on the status of our biodiversity to ensure that this rich heritage is managed to the benefit of all South Africans.

SANBI brings together the latest science to provide an overview of the state of this natural world in the National Biodiversity Assessment (NBA). Released every seven years, the NBA is one of the most important bodies of work to help steer policy and decision-making concerning environmental management and national development priorities such as economic growth and service delivery.

**Work on the 2018 NBA is currently underway and seeks to answer the following key questions:**

How is South Africa's biodiversity doing at the ecosystem, species and genetic level across all environments (terrestrial, freshwater, estuarine, coastal and marine)?

Is it better or worse off than before?

Are we responding effectively to the challenge of managing and conserving biodiversity?

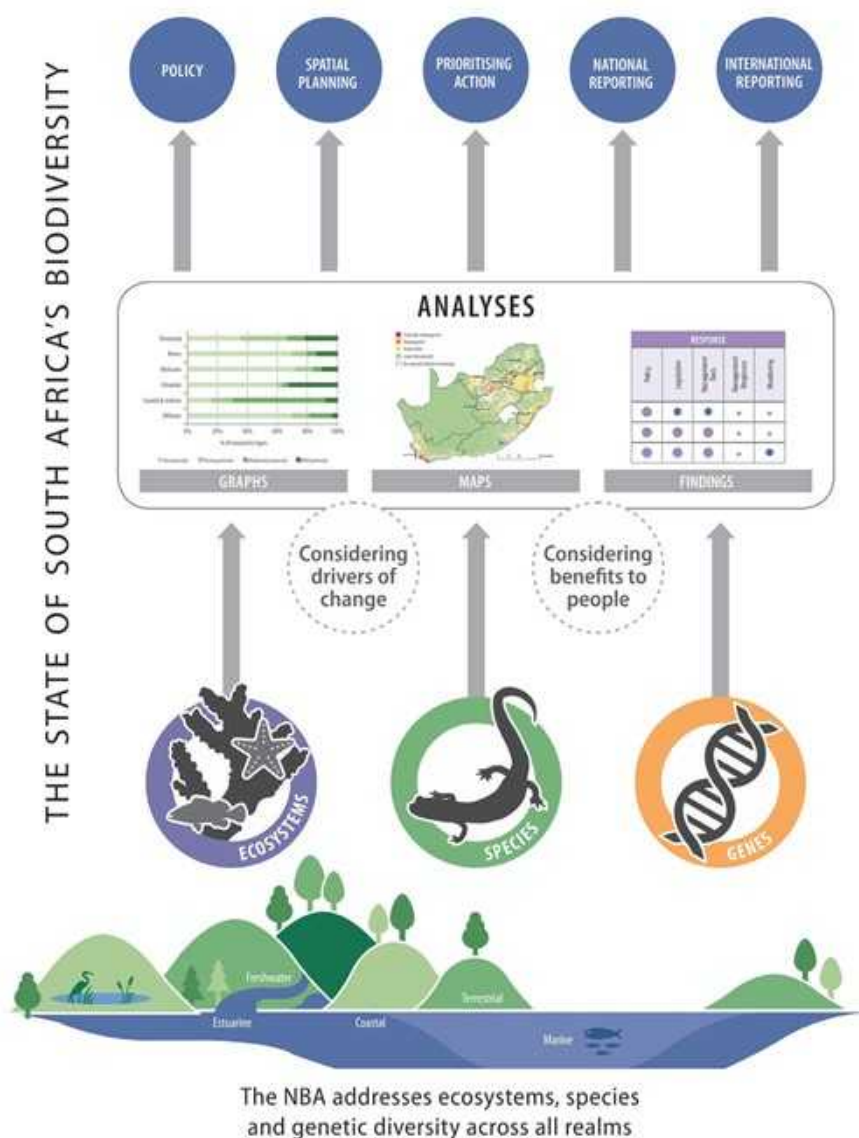
How is society benefiting from biodiversity?

### The best minds applied

The NBA is a multi-author project led by SANBI in partnership with a range of biodiversity scientists and practitioners representing civil society, research institutions and state organisations. Pulling together the best minds is not just necessary to produce a robust, evidence-based overview of the state of the country's biodiversity, but also to ensure the collective ownership of the NBA by the biodiversity science community in South Africa.

## South Africa's National Biodiversity Assessment

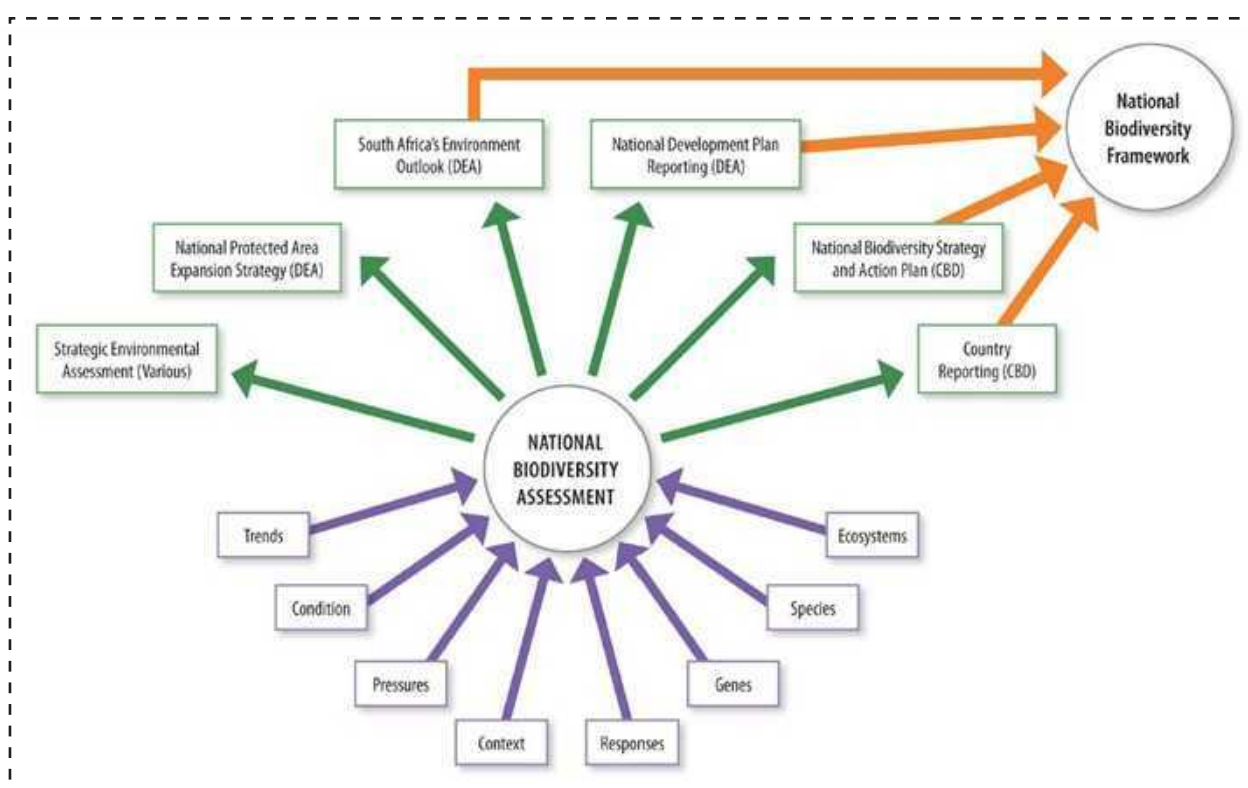
### INFORMATION INTO ACTION





### What is the NBA used for?

- To **inform policy** in the biodiversity sector, such as the National Protected Area Expansion Strategy, as well as informing policies of a range of other sectors that rely or impact on natural resources, such as the water, agriculture and mining sectors.
- To provide information to help **prioritise the often limited resources** for managing and conserving our biodiversity – actions can focus on preventing further loss and degradation of ecosystems and ecological infrastructure, on consolidating and expanding the protected area network, and on interventions required to restore areas in poor condition so that they become healthy, functioning systems of benefit to people.
- To provide context and information that **feeds into strategic planning processes**, such as Strategic Environmental Assessments and Bioregional Plans.
- To provide information for a range of **national level reporting** processes such as the South Africa Environment Outlook, and ensure that the Department of Environmental Affairs (DEA) has the necessary biodiversity information to meet our **international reporting commitments** to the Convention on Biological Diversity (CBD).
- The NBA is a **key reference and educational product** relevant to scientists, students, consultants and decision-makers.



## South Africa still top investment destination in Africa

South Africa remains the largest recipient of foreign direct investment (FDI) in Africa, according to Brand South Africa.

The country also continues to be the largest source of intra-regional investment, and has recently made a comeback in the top 25 most attractive global investment destinations, the organisation said.

This was evidenced by findings from the EY Attractiveness Programme Africa (APA) 2017, the AT Kearney Foreign Direct Investment Confidence Index, as well as Brand South Africa's Investor Perceptions Research.

The 2017 APA measures the FDI attractiveness of 46 African markets. Its 2017 findings indicate that South Africa experienced a 6.9 per cent increase in FDI flows in 2016.

"South Africa continues to attract the bulk of FDI projects destined for the continent with a share of 20.6 per cent, Egypt at 11.7 per cent, Morocco at 12 per cent, Nigeria at 7.5 per cent, and Kenya at 5.9 per cent," said Brand South Africa's General Manager for Research, Dr Petrus de Kock.

The 2017 APA further notes that even as its economy remains under pressure, South Africa retains its appeal as a launch-pad for growth across the continent.

## Investor confidence

Dr de Kock said the findings on South Africa's FDI profile underline the fact that global investors have confidence in the market and see the country as an attractive investment destination.

"Opportunities identified in these respective indices should be vigorously pursued through a collaborative approach between business and government, especially after the credit ratings downgrade," he said.

South Africa's diversified economy, geographic location, infrastructure and logistic capabilities play a major role in attracting investment.

The 2017 AT Kearney Foreign Direct Investment Confidence Index is characterised by a perception of safety in developed markets.

However, the 2017 Index marked the emergence of

newcomers the UAE and South Africa, which Dr de Kock said was a sign of an increase in investment intentions in emerging markets.

"AT Kearney notes that with the country's improvements in infrastructure and education, investors view South Africa as being poised to lead one of the world's next major manufacturing hubs." – *SAnews.gov.za*



## Youth can grow tourism sector

At the recent opening of the 2017 Tourism Indaba in Durban, President Jacob Zuma talked of the opportunities for youth as the industry continued to grow. South Africa had a 13 per cent increase in visitors last year, he said, making tourism a sector of the economy that could change people's lives.

"In addition to job creation, tourism also provides opportunities for entrepreneurship. Given the low barriers to entry, it makes it possible for new entrants, particularly women and the youth, to get into business."

Opportunities for young tourism entrepreneurs will open up when government rolls out its new 5 In 5 Tourism Growth Strategy. The plan will target new markets in Asia and the Middle East. It aims to increase the number of tourists visiting the country by five million in the next five years.

South African Tourism will also give black entrepreneurs the opportunity to showcase their businesses

at trade shows and expos. "We are looking to achieve at least a 30 per cent black ownership of the tourism industry," the President said.

## Tourism is opportunity

Meanwhile, Minister of Tourism Tokozile Xasa said South Africa's youth need to believe they have what it takes to start and run a business before approaching government for help.

Speaking at the recent Local Government Tourism Conference, she said her ministry already has programmes to help new entrepreneurs put together busi-

ness plans. But it was not looking for haphazard growth.

"We want sustainable growth that creates more opportunities for black people, especially people in rural areas, and for women, the youth and people living with disabilities. We want growth in tourism to lead to economic and social transformation for our country.

"Tourism is a half-exposed treasure chest. The lid is half-opened and not many of our people can get to the jewels. If we all work together, we can prise that lid open, so that the benefits of tourism, and the natural and cultural heritage of our country, can be shared by all the people in our country."

## Freedom Park celebrates the Year of OR Tambo

Freedom Park was a fitting venue to hold the recent OR Tambo Centenary Talks, with the keynote address by Minister in the Presidency for Planning, Monitoring and Evaluation Jeff Radebe.

The year 2017 has been declared The Year of OR Tambo. The Centenary Talks were hosted by the National Heritage Council of South Africa with its partners Freedom Park, the Oliver and Adelaide Tambo Foundation and the South African Maritime Safety Authority.

OR Tambo, Minister Radebe said, was "the glue that held the various strands of the national democratic revolution together for almost 30 years. It was because of his erudite leadership that he brought back the ANC intact after decades of exile."

Tambo took over the reins of the ANC from Chief Albert Luthuli 50 years ago – in July 1967. He would also have turned 100 this year, on 27 October.

Minister Radebe said the reason leaders like Tambo were celebrated was "not to wallow in the glory of our past, but to use the past as a means to inspire our future growth as a nation". He spoke of the vision and values that drove Tambo. "One of the principles that undergird Tambo's leadership was the unity of people of the world against oppression."

## A global leader

Tambo was sent into exile after the Sharpeville massacre in 1960. His mission was to establish a foreign mission and escalate the struggle to an international level. In the role of a diplomat, he also represented South Africa on the global stage in forums such as the then Organisation of African Unity and the UN. Many countries recognised him as a diplomat and accorded him the status of a head of state.


Minister Radebe spoke movingly about the man he came to know in exile: "He proved to be a compassionate human being and a great listener who valued diverse opinions.

He was very patient with us as young cadres."

Tambo, a visionary leader, had warned that political freedom would be meaningless without economic freedom. "It for this reason that we need all hands on deck in our endeavour to promote inclusive growth and transforming the economy and society for the benefit of all South Africans," the Minister said.

"We must pay heed to Tambo's warning and work together in developing a truly liberated, non-racial, united and equal society.

"Our country is currently facing a litany of challenges that require us to join hands and march in unison towards our common destination of a better and more prosperous South Africa."

We owe it to Tambo to remain unified, Minister Radebe said. "One of Tambo's most outstanding traits was that of a unifier. The most fitting tribute that we can pay to him is to reinforce unity, social cohesion and nationhood amongst all South Africans." 



# ISSEY MIYAKE



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# A salute to peace in the DRC

“Africans must act together to play our rightful role in maintaining peace and security in Africa,” says Lieutenant General Derick Mgwebi, the South African military veteran in charge of the UN’s armed forces in the Congo.

**A**s Force Commander of the single largest United Nations (UN) peacekeeping mission in the world, Lieutenant General Derick Mgwebi has under his leadership over 20 000 military personnel from around the globe.

He was appointed as Force Commander of the UN Organisation Stabilisation Mission in the Democratic Republic of Congo (MONUSCO) in December 2015 by the former Secretary General of the UN Ban Ki Moon, and is in charge not only of the armed forces stationed in different locations around the Democratic Republic of the Congo (DRC) but also the Force Intervention Brigade (FIB).

In a move from peacekeeping only to peace enforcement, this tri-national force – made up of Malawian, South African and Tanzanian elements – has the mandate of using force, if and when necessary, to protect civilians from armed and rebel groups.

Since his arrival in the DRC, Lt Gen Mgwebi has been carrying out com-

plex, mandated and difficult tasks in a vast, conflict-affected territory in the absence of a comprehensive peace agreement and in an environment fraught with operational and infrastructural challenges.

## A hard job done well

MONUSCO’s military peacekeepers’ work is immensely sensitive and challenging, especially with regard to the protection of the population of the DRC. However, Lt Gen Mgwebi and his team are doing a sound job despite the odds, which is why the UN requested that he extend his contract until 2018.

With regard to how he fits into things in the DRC, Lt Gen Mgwebi explains that the MONUSCO’s most senior person is the Special Representative of the Secretary General (SRSG). He has two deputies; one is responsible for enforcing the Rule of Law, good governance and the justice system; while the other is responsible for all humanitarian aspects pertaining to the mission. The Force Commander ➔





and Police Commissioner are on the same level as the two deputies.

As part of the top leadership, Lt Gen Mgwebi is among the strategists who determine how best to execute the mandate of the mission. "My responsibilities are to advise the SRSG with regard to MONUSCO force activities and to command the forces in the DRC." This includes giving guidance and engaging with the troops and implementing the mission's mandate through proper planning in respect of neutralising the armed groups and protecting the civilian population.

He explains that his key priorities when he accepted the position were to understand the UN system and become acquainted with the leadership, some of the key components of the mission and his own Force Headquarters people. He also had to understand the structure of the Armed Forces of the DRC (FARDC) as he works very closely with them and initially relied on them to provide vital information on the security situation in the DRC. Assessing the level of readiness of the FARDC and understanding their approach to working with MONUSCO was also a priority.

In those early days in office, Lt Gen Mgwebi also had to ensure that he understood the DRC's different armed groupings, their programmes and



Lt Gen Derick Mgwebi, the Force Commander of the United Nations Organisation Stabilisation Mission in the Congo (middle) visits the Western Brigade.

method of operation. He then had to understand the challenges faced by the UN when engaging with these groupings.

With decades of experience, there were no big surprises when he arrived in the DRC. "Actually, being there just confirmed what I already encountered in the past. It is amazing how military officers and civilian staff from so many countries around the globe, with different political, social, religious and cultural backgrounds, are able to work together so effectively and in such a harmonious spirit. I also was, and still am, impressed by the talent and commitment of so many in the MONUSCO."

### DRC challenges

With regard to the unstable security conditions in the DRC and the primary factors that contributed to the

situation, he says that the DRC should 'at least share the issues of democracy, good governance and the rule of law'. He adds that addressing these issues will reduce the level of tension in the DRC.

"If we can solve that, we can reduce the level of division and support the politicians so that they can go forward. So those who are watching the DRC should be supportive and help advocate those aspects of good governance. And, of course, the mandate itself and the attitude of the host country towards the UN become very critical in terms of making the mission a success. The problems of Africa, for me as a military man, are not military. They are political."

But, nonetheless, the military has a huge part to play in addressing these problems.

**It is amazing how military officers and civilian staff from so many countries around the globe, with different political, social, religious and cultural backgrounds, are able to work together so effectively and in such a harmonious spirit."**



"The armed groupings tend to wear the same uniform as the FARDC and this makes our task very difficult in dealing with them. Then there is the issue of the size of the country and the terrain that makes our work very difficult. The absence of infrastructure like roads and bridges also restricts movement and affects our operational capacity. This impacts on our ability to meet our mandate.

"The lack of political progress and political security are also challenges because of armed groups that enter villages to attack and kill civilians."

Another challenge for Lt Gen Mgwebi is the role of the Framework Brigades (MONUSCO brigades that were on the ground before the FIB). "In essence, they co-exist with the armed groupings; they can know the base of the armed groupings about 10 km away from them but they would not go and attack that base because they call that target 'operations' and they would only be available to protect the civilians. That is frustrating.

"The Security Council, when they renewed our mandate, was informed by us about the clause that said the FIB will neutralise and conduct targeted operations against the armed groupings. It should rather say the MONUSCO force will neutralise and conduct the targeted and offensive operations," he says, because that will allow the Framework Brigades to play a more active role.

## Inroads made

Lt Gen Mgwebi says that overall, the UN is doing a wonderful job in terms

of setting conditions for the provision of peace within the DRC. "The work we do is very noble.

"It is important to have good governance structures in place and be willing to act decisively when needed. We must be committed to providing peace and security to the people. Africans must act together to play our rightful role in maintaining peace and security in Africa."

The security landscape in the Eastern DRC changed significantly following the high-profile and decisive operation that resulted in the defeat of the rebel group, M23 – or Congolese Revolutionary Army – in 2013. The FIB provided the military manpower for the operation, which created the much-needed space for conflict resolution. "Since then, the FIB has been a very effective deterrent to further conflict," says Lt Gen Mgwebi.

The MONUSCO military peacekeepers continue to impact positively on the lives of DRC civilians and their protection through ground and aerial patrols.

"MONUSCO's military component has made a tangible contribution to the implementation of the mission's mandate. Military peacekeepers in the Congo are deployed in areas where innocent civilians and displaced communities require the most protection. The FIB continues to support the FARDC to maintain peace in the Eastern DRC and to neutralise the armed groups terrorising innocent civilians.

"In the case of any emergency notification from our early response system, we are able to send troops

to the affected areas in advance to defuse violence. It is worth mentioning that the military peacekeepers render emergency humanitarian aid to conflict-affected areas too," he says. This includes the provision of food, water and medical aid as well as evacuation of the seriously wounded.

Indeed, aside from its peacekeeping mandate, MONUSCO's military component make a number of significant contributions to the DRC, says Lt Gen Mgwebi. "I think one of the primary support functions performed by the military component is the provision of escorts to humanitarian actors. I consider the facilitation of humanitarian access to be an immensely significant function performed by our troops. Similarly, we need to support our 70 bases, mostly in the eastern part of the DRC, by getting food and fuel to them."

He says that initially there were mostly no roads or bridges but explains that the Engineering troops have fortified infrastructure in the DRC by building essential roads and bridges. "Currently, they are busy with the development of Civil Aviation Authority offices, a Level 3 hospital, logistical compounds and offices. They are supporting the civilians in their area of operation; some go as far as constructing schools, dispensaries and other community facilities. Through initiatives like this, we win the hearts and minds of local communities and contribute to creating hope for a better future for the people living here."

Apart from stabilising the ➡



Lt Gen Derick Mgwebi, the Force Commander of the United Nations Organisation Stabilisation Mission in the Congo (MONUSCO) inspecting the parade during his welcoming parade.

violence in the DRC, the MONUSCO has helped sensitise the different communities to the value of co-existing and solving their problems through peaceful means rather than violence.

"On the humanitarian side, the MONUSCO provides accommodation, shelter and food while engaging the local authorities in terms of finding solutions to their problems. So in that sense, the MONUSCO is making a difference and trying to reduce human rights violations."

## Women and war

Women in peacekeeping are very important because in field missions and conflict areas, the most vulnerable people are women and children.

He explains that female soldiers protect these vulnerable groups because they have a better understanding of the challenges women and children face. "Women have their own part in any job, so they should not be denied a chance to play

their part. They should play their part strongly and perform well. They should develop their confidence and build their capacity to compete with men."

He feels just as strongly about the incidence of criminal actions by a handful of peacekeepers on sanctioned missions over the years. "Sexual exploitation and abuse in peacekeeping is unacceptable. The UN maintains a zero tolerance policy with regard to sexual abuse.

"I have issued a directive to implement a non-fraternisation policy to all troop-contributing countries. We are committed to addressing abuse at all levels. This is a shared responsibility and we depend on a strong partnership to win this battle."

Meanwhile, the disciplinary process for military contingents has been strengthened.

"I have also declared and instructed military police to conduct patrols in all areas deemed out of bounds for military peacekeepers, especially in areas where our military installa-

tions are in close proximity to urban and civilian population.

"There are also teams that implement the mission strategy on training, prevention, enforcement and remedial action and advise commanders on related issues. All allegations are investigated and if found to be true, the perpetrator will be repatriated to his country and his name will be sent to the UN for blacklisting."

## Parting thought

Although Lt Gen Mgwebi is poised to retire, he is keen to impart what he learnt in the DRC to the SANDF so that the knowledge and insights gained are not lost.

He stresses that professionalism and good leadership are key to the success of any military entity. "In this respect, nurturing these two elements early in the career of officers and developing both as the officer grows in the profession is very important. Officers must be trained to be good field commanders and also remain good managers where they take responsibility and make decisions while also retaining accountability for all their actions.

"Being a good professional officer does not only entail working very hard and continuously learning, but also taking the moral high ground. This implies impeccable conduct and discipline from the officer. It is critical we encourage young officers to work hard so they can rise to the top and not only lead national troops on international assignments, but also command multinational forces." ●



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# Budget votes take stock of progress



**A** new land audit on who owns South Africa, the gazetting of the much-anticipated Mining Charter, a recommitment to renewable energy and a push to fast-track the Black Industrialist Programme are some of the notable announcements that set the scene for inclusive growth and economic transformation when Ministers tabled departmental budget votes in Parliament recently.

Parliament presided over a marathon 40 departmental budget votes in May, with departments taking stock of the progress made in improving the lives of all South Africans and detailing programmes for the year ahead.

After President Jacob Zuma announced in the February State of the Nation Address (SONA) that government would use all levers of the state to usher in radical economic transformation, the departments used the budget

votes to make announcements aimed at giving practical meaning to the call.

In his address at the time the President said interventions to accelerate economic transformation in the year ahead would include using legislation, regulations, licensing, budget and procurement as well as Broad-Based Black Economic Empowerment Charters to influence the behaviour of the private sector and drive transformation.

## Calls for land audit to determine who owns South Africa

The debate over land ownership in South Africa has been the subject of calls by most sectors of society, from political formations to general members of the public calling for an equitable reform of land-ownership patterns.

Land Reform and Rural Affairs Minister Gugile Nkwinti also made this call during the debate on the State of the Nation Address.

Tabling the department's budget vote, the Minister said the department will conduct a land audit.

"Our biggest challenge remains the answer to the question – who owns South Africa?

"In terms of phase one of our land audit, it became clear that we still needed to conduct an audit in terms of land ownership by race, gender and nationality. We have just concluded the latter process," he said.

## Revitalising the value chain

Agriculture, Forestry and Fisheries Minister Senzeni Zokwana said there were a number of programmes through which the department sought to help small-scale farmers participate in the sector's value chain.

An example is the Revitalisation of the Agriculture and Agro-Processing Value Chain, which focuses on land reform, market access and trade, producer support, research and innovation and production.

Under market access, the Minister said for the financial year 2017/18, R2.2 billion had been allocated as a conditional grant to support farmers. He said R1.6 billion was for the Comprehensive Agricultural Support Programme, aimed at providing post-settlement support to the targeted beneficiaries of land reform and to other producers who have acquired land through private means.

He added that R522 million had been allocated to

Ilima/Letsema, a programme focused on increasing food production and rehabilitating irrigation schemes and other value adding projects.

"In an effort to fast-track the transformation of the agriculture sector, specific attention will be given to the development of 450 large-scale black commercial farmers.


"For this financial year, I commit R220 million for the development of smallholder farmers to graduate to commercial farmers. Our target is to have 2 250 black commercial farmers by 2022," he said.

## More support for black industrialists

Industrialising the economy has been identified as one of the ways through which crucial job-creating sectors like the manufacturing industry, among others, can be supported going forward. This has also been seen as the best way to drive localisation.

In his budget vote Trade and Industry Minister Rob Davies said government's Black Industrialist Programme had already supported 46 projects since it was launched last year.

He said the department now aimed to reach its target a year early and support 100 black industrialists by March 2018, instead of the initial targeted date of March 2019.

"I am happy to report that as of now, we have approved 46 projects run by black industrialists, with government agencies, including the Department of Trade and Industry, Industrial Development Corporation, Public Investment Corporation and the National Empowerment Fund deploying over R2 billion in financial support on top of 

**"In an effort to fast-track the transformation of the agriculture sector, specific attention will be given to the development of 450 large scale black commercial farmers"**



  
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R122 million in grants from the department,” he said. The Minister said the support has enabled black industrialists to undertake investment projects worth R3.7 billion.

Economic Development Minister Ebrahim Patel said high levels of economic concentration and racially skewed ownership profiles stunted economic growth, prevented entry of new players, reduced consumer choice, limited the levels of innovation and dynamism in the economy and fed a growing resentment among black South Africans of the failure to realise the vision of the constitution.

“To address this, we will be finalising proposed changes to the Competition Act, as announced during SONA,” he said. The department released a framework in May and would work with a panel of experts to complete recommendations soon.

“To deepen our information base on the extent of transformation, we will work with other departments to quantify the extent of black citizen participation in the economy.

“To improve actions against collusion and corrupt corporate practices, the Commission will investigate about 100 cases of cartel behaviour in different sectors of the economy, including food, infrastructure, chemicals, financial services and car-parts,” he said.

The Industrial Development Corporation will target R7 billion for black industrialists and R2.5 billion for women- and youth-empowered companies this year.

“More than R4 billion will be put into localisation initiatives,” he said.

## Calls for citizens to be Brand South Africa ambassadors

Communications Minister Ayanda Dlodlo said that to drive foreign direct investment into South Africa, citizens across all sectors of society should be patriotic.

Instead of only focusing on negative developments in the country, citizens should also tell the good South African stories.

“Recently, South Africa took second place in the Africa Competitiveness Report and the country’s global ranking for 2016/17 improved by nine places, from 56 in

the 2014/15 report to 47 out of 138 countries worldwide, according to Brand South Africa.

“This work is vitally important and we all have a role to play in building our nation. Now is the time for a new spirit of patriotism and optimism.

“Now is the time for all South Africans to play their role as conscious brand ambassadors.

“All too often outside investors only get to hear the negative stories about our great nation. It is up to us to highlight the many positive things about our nation and our people,” she said.

The department will continue to prioritise and support media transformation through the Media Diversity Development Agency (MDDA).

“We are pleased that in the current financial year the MDDA will present the 10-year impact study which sought to assess the effectiveness of the impact made since the MDDA’s inception in 2002.

“The MDDA must continue supporting projects that promote the active role of people with disabilities into the sector and place greater emphasis on correcting gender imbalances, both in terms of ownership and management of community media, and in the newsroom, as well as on how women are portrayed in the media,” she said.

## Ensuring universal health coverage through the NHI Fund

Earlier this year government announced that it was looking to set up a National Health Insurance (NHI) Fund and that a number of options would be explored.

This would include the possibility of tapping into the tax credit on medical scheme contributions.

In his budget speech Health Minister Aaron Motsoaledi announced that tax credits announced in the February budget amounted to R20 billion.

“Yes, R20 billion that in 2015 and annually will leave the fiscus through SA Revenue Service back to the pockets of people, simply because they are members of a medical aid scheme,” he said.

Minister Motsoaledi said returning these tax credits back to medical aid schemes instead of using it for universal health coverage did not make sense. ➡

He said such funds should be used for the greater good and to fund the less privileged.

## Mining Charter to be gazetted soon

Mineral Resources Minister Mosebenzi Zwane has announced that his department will soon publish the Mining Charter for public comment.

The Minister said he has consulted about 60 stakeholders and that their views and concerns will be reflected in the review.

"The review of the Mining Charter, which was gazetted in April 2016 for public comment, is almost complete.

"Although we had initially intended to have the process finalised in March 2017, further consultations have been undertaken and we are confident that the Charter that will be gazetted will be reflective of the careful consideration given, substantive inputs received and meaningful engagement with stakeholders," he said.

## Tourism Minister announces new transformation fund

Tourism Minister Tokozile Xasa has used her maiden budget vote speech to announce the establishment of a transformation fund to assist new entrants and emerging players in the sector with access to funding.

She said funding in the sector has been a challenge for some time.

This, the Minister said, restricts growth of small enterprises, expansion of their existing products and participa-

tion by communities, as it is difficult to obtain operational finance.

"In recognition of this challenge and with the support of the National Treasury, we have entered into a partnership with the National Empowerment Fund (NEF) to establish a Transformation Fund.

"A combination of grant funding and debt financing will be used to drive sector transformation and unlock capital investment in tourism.

"The fund is currently capitalised to an amount of R120 million with the aim of building it to R360 million in the medium term," she said.

The fund will include NEF equity, debt and grant funding from the Department of Tourism.

"The grant funding will be capped at R5 million. It will be accessible in the second quarter of the 2017/18 financial year," she said.

The Minister added that the department will set aside R1.1 billion to increase global market share and grow the domestic tourism market in a manner that promotes inclusive growth.

"Our goal is to attract five million additional tourists to South Africa within the next five years," she said.

She added that the empowerment of women is central to the department's transformation agenda.

The department will continue implementing its Women in Tourism Programme.

"Women in tourism are mobilised behind representation, recognition, reward and respect," she said. ●



## Education overhauls assessment system

Writers: Noluthando Motswai and Amukelani Chauke

**T**he Department of Basic Education will introduce a National Integrated Assessment Framework (NIAF) to replace the Annual National Assessment programme. Minister of Basic Education Angie Motshekga announced the change during her recent budget speech.

The NIAF will have three levels: systemic assessment, diagnostic assessment and summative examination.

Systemic assessment will be administered in Grades 3, 6 and 9, every three years, to gather valuable data on the health of the system and trends in learner performance. It will be piloted in October 2017, and implemented in 2018.

Diagnostic assessment will be done early in the learning process to identify learning gaps and plan remedial measures.

Summative examination, a national examination, will be administered in selected grades and subjects to create a national benchmark for promotion between grades.

### Benchmarking education

Recent benchmarking studies show that the performance of South African learners is improving,

Minister Motshekga said.

Results from the fourth Southern and East African Consortium for Monitoring Educational Quality study "showed for the first time that grade six South African learners achieved mathematics scores which are above the significant centre point of 500 points".

According to the 2015 Trends in International Mathematics and Science study, South Africa has improved by 87 points in maths and 90 points in science since 2003.

"More importantly, the largest gains were evident within the historically disadvantaged sections of the schooling system – quintiles 1-3 schools."

Minister Motshekga said the South African basic education system is on an upward trajectory.

According to a 2015 Unesco research report, more learners remain in school up to Grade 12 than ever before.

Research conducted by the department found that in 2015 close to 60 per cent of young people were successfully completing 13 years, including Grade R.

## Healthcare for all a step closer

Writers: Noluthando Motswai

**T**he Department of Health is stepping up its investment in public health, to ensure all South Africans can access quality care.

During his budget vote, Health Minister Aaron Motsoaledi said his department has built 34 new and replacement clinics in the 10 National Health Insurance (NHI) pilot districts, and was working on a further 48. "Outside the 10 pilot districts, we have completed 96 clinics and are busy with 132."

Once complete, 310 new and replacement clinics will be available to the public.

The NHI pilot sites are in OR Tambo (Eastern Cape), Gert Sibande (Mpumalanga), Vhembe (Limpopo), Pixley ka Seme (Northern Cape), Eden (Western Cape), Dr K Kaunda (North West), Thabo Mofutsanyane (Free State) and Tshwane (Gauteng).

Since 2012, 154 clinics have been refurbished and 192 are going through the process in the pilot districts. Outside

the pilot districts, 135 clinics that have been refurbished and 220 are in the process.

Minister Motsoaledi said good progress was being made on the new digital NHI patient information system.

"Working with the CSIR and the departments of Science and Technology and Home Affairs, I am happy to announce that our preparatory period has gone well. We now have a system being implemented that will be ready for NHI."

Over six million South Africans have registered on the system in preparation for NHI, with between 80 000 and 100 000 people registering every day.

The Unique Patient Identifier is linked to ID numbers. Once registered, a person keeps their healthcare number for life.

Minister Motsoaledi said the first step in implementing the NHI is to pick up those outside the medical aid system and provide services to them through the NHI Fund. ●





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# Knowledge-based solutions to Africa's challenges



Plans to address Africa's many challenges must include knowledge-based trends and analyses, says Manusha Pillai, the Director: Stakeholder Relations and Communications at the Human Sciences Research Council.

**W**hen we talk about impediments to national and African growth and development, the list of challenges is endless. These include the youth dividend and being able to leverage this meaningfully for development; water, food and energy security; climate change; leadership; quality healthcare; and, most importantly, inclusive growth and development.

"It is often said that we must collectively stop lamenting the challenges and begin to implement our plans and programmes to ensure that we can turn these challenges into opportunities to enable Africa to take its place, as a developed continent and economy, amongst the global community of nations," says Pillai.

She says that Africa's development will be built on the growth and development of all 55 countries. This is spelt out in Agenda 2063 – the continent's first long-term plan for socio-economic development. In South Africa, we have the National Development Plan, which must be implemented with deeper vigour and focus to augment the efforts of Agenda 2063, she says.

"We must in addition begin to increasingly base our plans on knowledge-based trends and analyses," she adds.

## Looking at African developmental issues

To this end, the Human Sciences Research Council has just concluded its 7th Annual African Unity for Renaissance Conference which brought together academics from around the continent to deliberate on the research trends and outcomes on a range of developmental issues. More than 100 established and emerging African researchers and scholars deliberated on emerging theories and practice in the fields of sustainable development, science and technology, the green economy and renewable energy, economics, the environment and systems science. ➔

## “Will we value our human and intellectual capital and mobilise these to drive our collective development?”

Knowledge derived from research outputs can drive innovation, she says. This is described as the ability to translate research outputs into social innovations, novel products, processes, and methods. “Herein will lie durable solutions to some of our most persistent challenges which are only gaining in intensity.

“Although we are making progress in developing the knowledge base to support these solutions, work remains to be done.”

An analysis of African outputs indicate that the number of research papers with at least one African author published in scientific journals has quadrupled from 1996 to 2012 while, at the same time, the share of the world’s articles with African authors increased from 1.2 per cent to 2.3 per cent. In South Africa during the 2015/2016 period, 7 158 Web of Science publications originated from National Research Foundation-funded South African researchers, an increase of 10.3 per cent from the previous year.

“These figures can increase if the right investments are made in our human capital. We should not, however, be merely chasing the numbers of graduates, publications or papers. The value of our academic investments must lie in the development of our continental intellectual and human capital to drive the solutions we so urgently require.”

### Building capacity and transferring skills

Recognising this, and with a view to bringing young minds into the conversation to enable their contribution to the solutions, South Africa must develop and, more importantly, implement the recommendations of the 2017 Conference, which included a PhD Colloquium.

This served as a capacity-building and skills transfer opportunity with more established researchers and academics engaging with younger emerging social scientists.

“While the PhD is acknowledged as the best qualification for individuals in high-end research roles, it is equally known that we are not leveraging our youth dividend to produce sufficient numbers of such graduates who can lead our journey towards a knowledge economy which can benefit the almost one billion citizens on the continent,” says Pillai.


In this regard, at the beginning of 2015, South Africa was producing about 38 PhD graduates per million of its population while most developed countries produced well over 100 per PhDs per million.

This number was even lower in Africa. By increasing the numbers of PhDs, particularly at public education institutions, Africa will not only be able to increase its research capacity but also be better positioned to train the next generation of researchers, she believes.

“Knowing what we know, are we willing to walk the walk and support the development of our human capital resources? More importantly, will we value our human and intellectual capital and mobilise these to drive our collective development?”

At the inauguration of the Organisation of African Unity in 1963, Kwame Nkrumah articulated his vision of Africa.

He said: “We shall accumulate machinery and establish steel works, iron foundries and factories; we shall link the various states of our continent with communications; we shall astound the world with our hydroelectric power; we shall drain marshes and swamps, clear infested areas, feed the undernourished, and rid our people of parasites and disease. It is within the possibility of science and technology to make even the Sahara bloom into a vast field with verdant vegetation for agricultural and industrial developments.”

Pillai concludes: “Fifty-four years later, these words remain a vision. Investing in, harnessing and promoting our intellectual and human capital can move this vision closer to reality.” 



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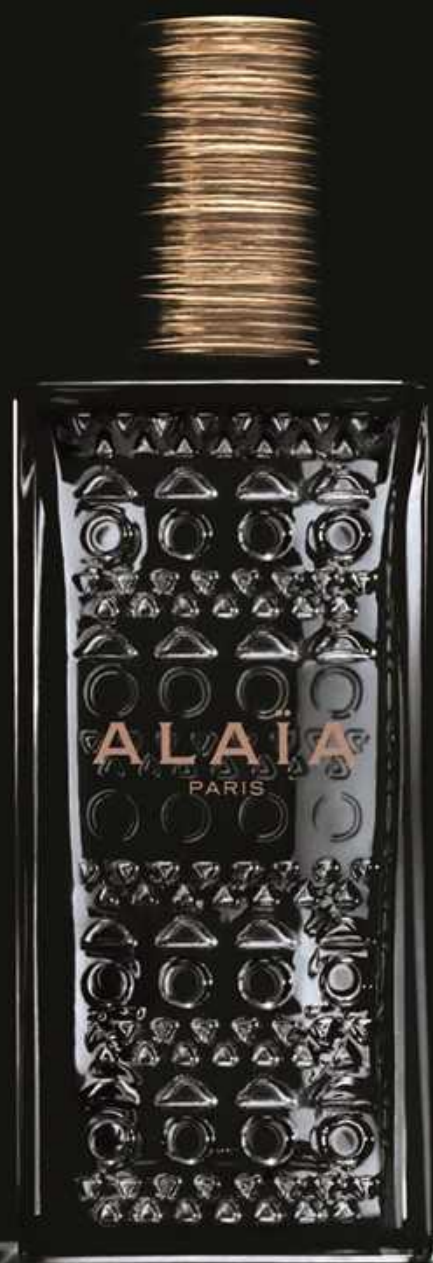
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# ALAÏA

PARIS





# Africa growing faster, but who benefits?



**S**ix out of the 10 fastest growing economies in the world this year are African. This makes Africa the fastest growing region in the world after Asia, despite the sluggish growth and economic misfortunes experienced across the globe over the past nine years.

The World Economic Forum (WEF) also predicts that by 2030, one in five people will be African. Combine the continent's soaring population with technology, improvements in infrastructure, health and education, and Africa could be the next century's economic growth powerhouse.

The International Monetary Fund (IMF) growth index predicts that Ghana's gross domestic product (GDP) growth rate will be around 13.73 per cent this year, followed by Côte d'Ivoire at 7.98. The IMF predicts that, this

year, Ethiopia's GDP will grow by around 7.50 per cent, Tanzania's by 7.24 per cent and Djibouti's by 7 per cent.

At face value, all this paints a picture of a growing and prospering continent, but some observers disagree. Many of the African countries that are seen to be progressing economically are still among the most underdeveloped.

## Celebrating unity

In May, the continent celebrated its unity, marking the founding of the Organisation of African Unity on 25 May 1963. But, for many, there is little to celebrate. Political freedom means nothing without economic growth, some argue.

Poverty and inequality is still rife. With the number of working-age people expected to grow to 450 million ➔



over the next two decades, there just is not enough innovation and development to create much needed jobs. Entrepreneurship is also slow to take off. Observers say the result could be a worsening crisis of youth unemployment.

What is the problem? Why are African countries finding it so hard to see the fruits of their economic growth channelled to development and prosperity for their citizens? Why does poverty and underdevelopment still persist, when the region is said to be the fastest growing?

These are some of the questions that dominated talks at the World Economic Forum on Africa, held in Durban from 3 to 5 May.

Over the years some people have blamed the West and international institutions such as the IMF and World Bank for Africa's problems.

But, in Durban, the more than 1 000 business leaders from 100 countries present were determined to stop the blame game. They wanted to find solutions. The values of leadership and inclusive growth in Africa dominated the meeting.

## Inclusivity is elusive

Everybody agreed Africa was growing. However, the growth was not inclusive, judging by the gap between rich and poor. It was the main theme of the meeting in Durban. How can Africa achieve economic growth that doesn't leave the majority of its people behind?

Something needs to be done to ensure inclusive growth and this requires effective leadership of the economy, which is something many African countries are seen to be lacking.

The World Economic Forum Inclusive Development Index 2017 lists Cameroon, Chad, Ghana, Kenya, Mali, Namibia, Senegal, Tanzania, Uganda and Zimbabwe as the continent's 10 inclusive economies.

What does this say about the rest of the countries in Africa? Are their economies not inclusive? Perhaps this question can only be answered by those countries.

South Africa's President Jacob Zuma seems to be aware of the problem, if his speech at the meeting was anything to go by.



## **“The World Economic Forum Inclusive Development Index 2017 lists Cameroon, Chad, Ghana, Kenya, Mali, Namibia, Senegal, Tanzania, Uganda and Zimbabwe, as the continent’s 10 inclusive economies.”**

“As leaders, we have not addressed adequately how we are going to close the gap between the rich and poor in the world and achieve meaningful, inclusive growth,” he said, speaking at the opening ceremony.

He also said that more needed to be done globally to combat “economic crimes” such as money-laundering and profit-shifting. Illicit financial flows out of Africa that amount to billions of US dollars have been viewed to be among the critical issues that slow the continent's progress.

The theme for this year's WEF on Africa meeting centred on inclusive growth and responsive leadership. Inclusive growth has also been the buzz phrase in South Africa, following government's recent pronouncements on radical economic transformation.

## Most populations remain poor

Those who attended the meeting in Durban agree that the majority of the world's population remains poor and has been side-lined from the real economic activity. For

its part, South Africa wants to change this picture of non-inclusive growth, Minister of Finance Malusi Gigaba told the meeting.

The minister went to great lengths to outline what South African government leaders mean when they speak of the “radical transformation” of Africa’s biggest economy.

“We have not paid enough attention to developing a productive economy in the township and rural areas,” Minister Gigaba told guests in one of the dialogue sessions in Durban.

“The special problems of the apartheid system have not been addressed sufficiently,” said Minister Gigaba.

It should therefore be understood why people were impatient for speedy change, he said.

But to blame Africa’s problems just on outsiders is disingenuous, argued other panellists at the dialogue sessions.

Prominent South African politician Lindiwe Mazibuko called for a new generation of leaders. “Africa has a leadership vacuum,” Mazibuko said, adding that the current crop of Africa’s leaders has failed to deliver.

“We need a different line of understanding of what leadership in an African society is, beyond politics and business, into the non-profit, into civil society, into churches, schools, communities. We need to redefine leadership,” Mazibuko said.

Professor Klaus Schwab, founder and executive chairman of WEF, echoed this: “We need leadership that respects human dignity and diversity. We need a value-based leadership that serves the community.”

Minister Gigaba’s solution was intra-Africa trade.

“African countries need to identify new markets to focus more on trading with one another, identify markets in emerging economies and trade with

those countries that are still open to trade.”

Although there were opportunities for African countries globally, these often came with risks. “However, I think on the overall, we need to take a positive outlook and focus on what we need to do in order to grow our economies to sustain the growth over the medium to long term,” Minister Gigaba said.

Lack of innovation was also cited as one of the things that were slowing Africa’s progress. Available statistics at the meeting revealed that Africa has fewer than 100 scientists per million people, which is a paltry eighth of what it needs. ●



### It's not all gloomy

Before you think the continent’s future is gloomy, note that the WEF provides a few numbers that prove the future is African.

**54 per cent:** Africa will account for more than half (54 per cent) of the 2.4 billion global population growth in coming decades. The United Nations predicts that between 2015 and 2050, Africa will add 1.3 billion people, more than doubling its current population of 1.2 billion.

**2 billion:** As part of the continent’s phenomenal population growth, the United Nations Children's Fund (UNICEF) predicts that two billion babies will be born in Africa over the next 33 years.

High fertility and improving child survival rates mean that by 2050, 40 per cent of under-fives and more than a third of all children under 18 will be African. In 1950, only about 10 per cent of the world’s children were African (Figures provided by the World Economic Forum). – [SAnews.gov.za](http://SAnews.gov.za)

# FROM GARAGE TO MARKET

## MAKING GRASSROOTS INNOVATION WORK



**T**inkering in the garage is a hobby for many, but for Phumalani Ntloko and Skhumbuzo Ndlovu the tinkering in the latter's garage resulted in the development of a Computer Numerical Control (CNC) machine which has the ability to test prototypes.

The young men, both engineering enthusiasts, are keen on inventing things, and for many years sought assistance to facilitate the incubation of their work. The pair were interested in developing new technologies like an oscilloscope, a device that can test various signals like sound, electricity and light.

"We knocked on several doors, more than 10, including those of financial institutions, but there was just was no help out there. No one was interested because it was obvious that our machine was built in a garage," said Ntloko.

However, in 2015, they got their breakthrough, after landing on the doorstep of the Department of Science and Technology (DST).

Through its Grassroots Innovation Programme, the DST assisted the pair to secure high-tech computer software and a 3D printer, and financed training for them and their team. Ntloko and Ndlovu dropped the idea of the oscilloscope and opted to develop their CNC machine concept, which had a better chance of economic success.



Last year, Minister Naledi Pandor announced during her budget vote speech that R2 million would be spent on a pilot programme that allowed the likes of Ntloko and Ndlovu to leverage social and economic value from their innovations. The need for the pilot was evident in the amount of young and unemployed people who use local resources to develop promising technologies and solutions outside formal innovation institutions. The initiative has established a database of grassroots innovations to help it identify support needs.



A year later, Ntloko and Ndlovu sat in the gallery in the National Assembly

*Captions: Left: Melusi Ntuli - the innovator of the chargeless electric. Top Right: Nnele Nkholise who developed the medical prosthesis using digital technologies explains to Minister Naledi Pandor during the Budget Vote exhibition held on 16 May. Bottom Right: Minister of Science and Technology Naledi Pandor, try out the motorized bicycle during the Budget Vote exhibition which took place on 16 May at Iziko Museum.*



**“WE KNOCKED ON SEVERAL DOORS, MORE THAN 10, INCLUDING THOSE OF FINANCIAL INSTITUTIONS, BUT THERE WAS JUST WAS NO HELP OUT THERE. NO ONE WAS INTERESTED BECAUSE IT WAS OBVIOUS THAT OUR MACHINE WAS BUILT IN A GARAGE,” SAID NTLOKO.**



when Minister Pandor presented this year's budget. The pair were accompanied by other grassroots innovators like Nkosana Madi, who developed a motorised bicycle, and Melusi Ntuli, who developed a chargeless electric engine. These innovators show that the DST initiative is bearing fruit.

The Grassroots Innovation Programme is aimed at identifying innovators and inventors that do not have a formal education or access to formal facilities. Through this programme individuals are linked to subject experts and advanced facilities where the innovations can be developed towards a commercial model.

The grassroots innovators also receive training in order to assist them to understand their subject matter better and to give

them the entrepreneurial skills to help them commercialise and market their inventions.

Formal, structured industry and academic institutions offer access to expertise, facilities and financial resources that make innovation activities comparatively easy. However, as the world changes, even large multinational companies are finding it harder to fund innovation.

By its nature, innovation is not restricted to particular environments. Clever ideas pop up everywhere, and with social media allowing for more active brainstorming, faster and more cost-effective innovation is made possible.

The DST is leveraging these trends to support and grow innovation in order to foster the economic development that South Africa desperately needs, and hopes that more grassroots innovators will approach it.

For more information, visit <http://grassroots.tliu.co.za>.



**science  
& technology**

Department:  
Science and Technology  
**REPUBLIC OF SOUTH AFRICA**

*Captions: Left: Nkosana Madi developed the motorized bicycle to assist people in rural areas cover huge distances. He is the Director of FLAVA Creative and a proud grassroots innovation.*

# People's Train transforms commuter transport

Travelling at a top speed of 160 kilometres an hour and equipped with modern on-board facilities such as wifi and ergonomic seats, the new People's Train will ensure the hardworking people of South Africa get to work on time.

Every day thousands of hardworking South Africans rely on trains to get them to their jobs. These journeys can be hugely frustrating, as ageing rail infrastructure and out-dated locomotives cause frequent breakdowns that make commuters late for work.

As a government who cares for its people, we could not allow this untenable situation, one that jeopardised the livelihood and safety of our citizens, to continue. Government has listened to commuters and taken action, through the state-owned Passenger Rail Agency of South Africa.

We can now proudly assure rail commuters that the days of unreliable train transport will be something of the past. The new People's Train, recently launched by President Jacob Zuma, is a system of state-of-the-art passenger trains set to revolutionise the way commuters travel.

"The investment in this modernisation programme by government will ensure that we change the rail landscape of our country," President Zuma said.

"The new trains have key features designed for both safety and passenger comfort."

Passengers travelling between the Pretoria and Pietermaritzburg stations will be the first to enjoy the state-of-the-art trains. They are equipped with air conditioning, ergonomic seats, real-time on-board information and wifi access. Over time, this Metrorail Commercialised Full Train Service will be rolled out in other parts of the country.

The People's Train also operates with greater efficiency, carrying more than 1 300 passengers and travelling at a top speed of 160 kilometres an hour. This means the trip between Atteridgeville and Pretoria central will be shortened from the current hour to just 20 minutes.

## Dismantling the legacy of apartheid

The investment in the new passenger trains will go a long way to reversing the under-investment in infrastructure during apartheid, which lies at the root of our current rail transport challenges.

In the late 1980s the country saw funds for capital improvements diverted to prop up the failing apartheid system. New rail investment was slashed. Expenditure on fixed assets fell from R1.4 billion in 1986 to R699 million in 1988.

The lack of investment led to a steady deterioration in passenger rail services, while freight rail lost market share to road transport. This legacy has been difficult and costly to dismantle.

As a country continually building on its achievements over the past 23 years ➔





### The People's Train

The new trains have key features designed for both safety and passenger comfort.

Top speed: 160 kilometres an hour

Capacity: 1 300 commuters

Facilities:

- air conditioning
- ergonomic seats
- real-time on-board information
- wifi access

we have moved into a stronger position to redress some of the imbalances created by apartheid. We are taking action to move public transport forward.

cause it will become the backbone of our passenger transport system. Our Public Transport Strategy details the country's move towards a high-quality Integrated Rapid Transport Network, which will include taxis and buses, with rail at its heart.

## Major investments

The launch of the new trains are part of a larger plan to revitalise the country's entire rail infrastructure, and one of the world's biggest rail projects. It includes modernising train stations and depots, and upgrading signalling overhead lines, railway tracks and platforms.

We are investing R51 billion in the new top-class trains and R4-billion in new hybrid locomotives. Our total investment in the modernisation of passenger rail infrastructure and services will amount to R173 billion.

Importantly, the rail revitalisation programme is also about contributing to economic development. We are also ensuring, through localisation, that South African companies benefit from the revival of the rail industry.

For example, our new train factory in Ekurhuleni, built at an investment of R1 billion, firmly positions South Africa as the manufacturing hub of rolling stock on the African continent.

The project has created more than 1 000 jobs, with 7 000 more in the pipeline. It has also strengthened the engineering sector through localisation and enhanced our research and training capabilities.

Our investment in rail infrastructure is prioritised be-


## Commuter responsibility

Government is confident that our investment in the sector will restore our passenger train services to the highest level of safety and reliability.

While commuters enjoy the comfort and reliability of the new trains, there is a greater responsibility to look after it so that future generations can benefit from the new infrastructure. We must take a stand against acts of vandalism and the burning of trains. These serious crimes are simply unacceptable.

At the launch of the People's Train, President Zuma encouraged commuters to report people who burn trains, steal cables or do anything else that undermines efforts of improving the quality of life of citizens.

When issues of concern do arise or commuters are unhappy with the service they receive, let us work together and constructively engage each other towards a solution.

Keep a look out on the horizon for one of our new improved trains – affirming our country's reputation as a great place to live, work and invest. 

---

**“Our new R1 billion train factory in Ekurhuleni firmly positions South Africa as the manufacturing hub of rolling stock in Africa.”**

---



# Two million children go to bed hungry...



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[www.jamsa.co.za](http://www.jamsa.co.za)



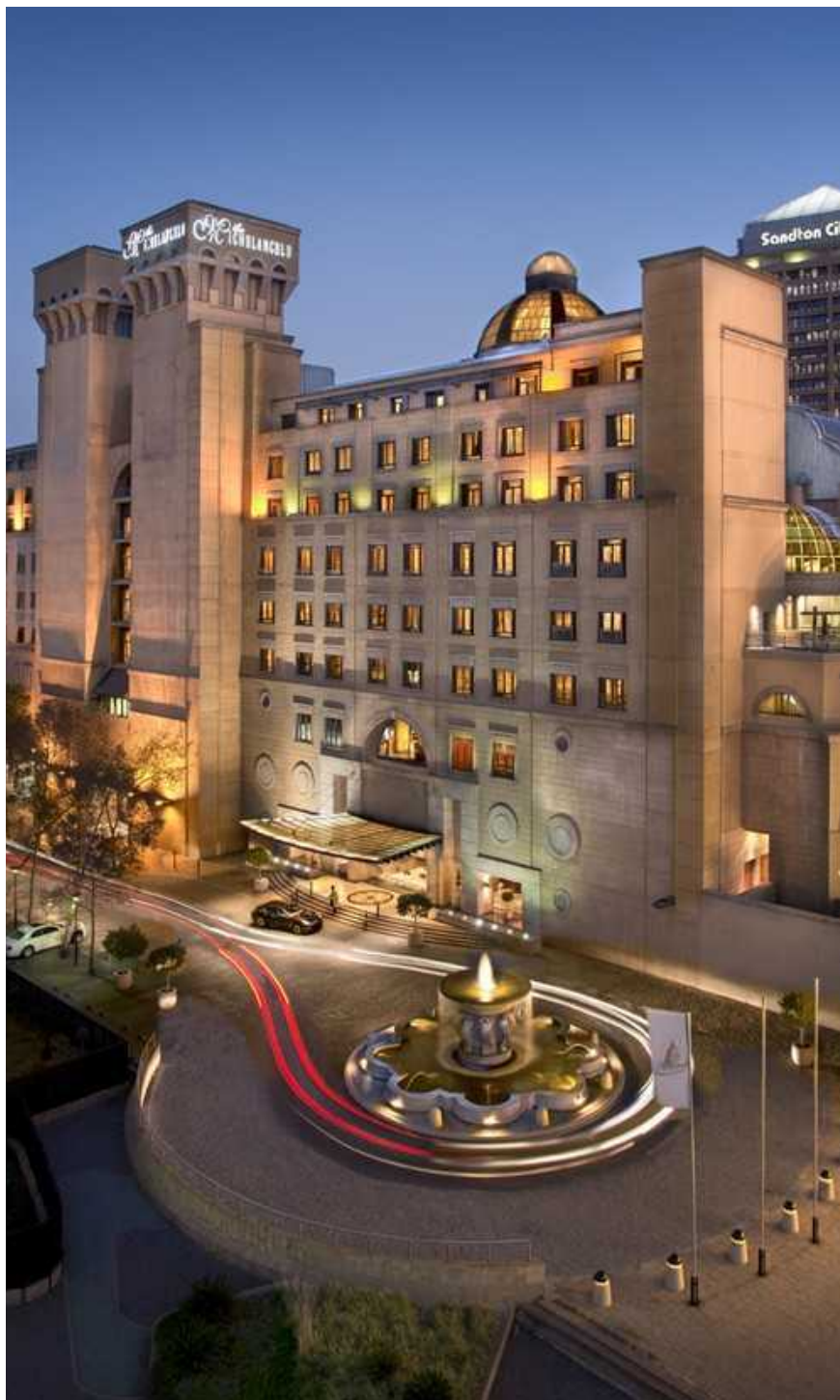




## THE VERY ESSENCE OF LUXURY

The Michelangelo Hotel is a luxury destination of choice with its splendour of Renaissance architecture at the heart of the rapidly growing Sandton business and leisure district. The Michelangelo Hotel is strategically positioned to overlook the cosmopolitan piazza of Nelson Mandela Square, providing guests with access to a variety of restaurants, shops and boutiques, as well as cinemas and theatres in the shopping centre – all within walking distance of the hotel.

The Michelangelo Hotel offers 242 suites and rooms – with en suite amenities – as well as world-class facilities in a stylish and elegant setting. The hotel provides easy access to some of Africa's finest retail and entertainment experiences within Johannesburg.



## Justice Mandisa Muriel Lindelwa Maya

### President of the Supreme Court of Appeal

Justice Mandisa Muriel Lindelwa is the first female President of the Supreme Court of Appeal. Her appointment makes her the third highest ranked judge after the Chief Justice and Deputy Chief Justice of the Republic.

Judge Maya began her law career as an attorney's clerk in Mthatha in 1987 before going on to become a court interpreter, prosecutor, state law adviser, a law lecturer and a practising advocate.

After leaving St Johns College she studied law at the University of the Transkei before attending Duke University – the alma mater of former Constitutional Court judge Richard Goldstone – where she received a Master in law.

She has overseen cases as a judge at the Labour Court, an Acting Judge in the Supreme Court of Appeal, and as an Acting Judge at the Constitutional Court. In 2006 she was appointed a Judge of the Supreme Court of Appeal and in 2015 she was appointed as the first female Deputy President of the Supreme Court of Appeal.

Judge Maya has earned a reputation for diligence and hard work and is considered a jurist who understands the law and the progressive values of the Constitution. She is described by lawyers who have appeared before her as an independent-minded judge who is sensitive to the contradictions in a society wracked by gender-based violence and socioeconomic inequalities.



## Boy Johannes Nobunga

### Chief Executive Officer, Mpumalanga Tourism and Parks Agency

Boy Johannes Nobunga is the new Chief Executive Officer of the Mpumalanga Tourism and Parks Agency.

Nobunga has extensive leadership experience in government operations and governance processes. He holds a BCom Hons from the University of the Western Cape.

Nobunga served as a Member of Parliament from 1994 to 2009, and in his final term of office served as the Deputy Speaker of the Mpumalanga Legislature.

His role will be to help bring stability to the agency and ensure it fulfils its mandate to manage conservation. He will also play a role in promoting Mpumalanga as a preferred tourism destination.

"He brings in a wealth of experience and strategic management capabilities," said Thulani Nzima, chair of the Mpumalanga Tourism and Parks Agency board.

"His experience in leadership roles within government and other sectors will be invaluable as we strive to position Mpumalanga province as one of the key tourism destinations in South Africa." ●





# Exit Lungisa Fuzile, a model public servant

**A**fter 19 years of state service, National Treasury Director-General Lungisa Fuzile is retiring. Treasury Minister Malusi Gigaba has described him as “a model public servant”.

“He leaves a legacy of a strong National Treasury that has a formidable team and a strong institutional framework that will carry forward the mandate of the department.”

Fuzile’s exit from the public service has significant markers for all public servants to observe.

Let us reflect on a few.

First, in recent times, few DGs have left the state without a cloud, either real or manufactured. Once you leave under a cloud, nobody touches you. Fuzile leaves with the comfort that no one will remove him from speed dial.

Second, Fuzile leaves a department intact, an institution that will outlive him. National Treasury is a respected department (feared by the wicked) because they have proven themselves with their technical expertise, excellence and ability to manage transitions and policy realignments. One recent project comes to mind.

When we were delegated to explore reduced e-Tolls tariffs as recommended by the Gauteng Panel on e-Tolls, the Treasury team ensured that the outcomes would not collapse the user-pay principle. With a combination of scientific rigour, skilful negotiating

Third, Fuzile committed 19 years to the public service, moving through the ranks to head National Treasury. This tells us a story of persistence and selflessness. For skilled bureaucrats who can easily join the private sector and triple their salaries, it says a lot of a man who remains within the state.

In Treasury, it is clear that the ruling party has done well to train public servants who are well on their way to lead the bureaucracy in the future. Many are highly educated, assertive and politically conscious. Fuzile spoke his mind to authorities on whatever he felt strongly about.


Fourth, Fuzile commanded respect from his peers. In the Forum of Directors-General, everyone knew that you wouldn’t take chances with him, given his knowledge. Men of conviction lead by ideas, as he did.

Fifth, Fuzile was politically aware and appreciated the electoral mandate of the ruling party. Bureaucracy is a political institution, not a social movement. Political consciousness does not equal political meddling. Democratic developmental states are political constructs whose realisation depends on the resilience of the bureaucracy that outlives electoral terms.

He leaves with cheers, but with some regret: “We need more businesses ... to create jobs for our youth. I wish I was leaving at a time when the education and training sector was functioning well ... it would have been

... alarming to leave at a time when inequality was

... These statements are evidently political, markers of conviction.

... is not dead. This is not a eulogy. These lines are for those who remain in the bureaucracy. This is to tell us of long road ahead towards mastering statecraft – a necessary feature of the democratic developmental state that must steer South Africa into a national democratic society. 




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**Ngcaweni works in The Presidency and writes in his personal capacity.**

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104-107

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5000 pairs of shoes.  
One ship can hold  
16,000 containers.  
So one cargo ship  
can carry 128 million  
pairs of shoes.

In the  
Syrian  
refugee  
crisis,  
Hamburg  
is using  
containers  
as housing.

Durban's  
trade is  
worth over  
\$14.5 billion  
a year and  
it handles  
44.8 million  
tons of  
cargo.

From the producer of a product  
to your home, goods go through  
different modes of transport.

One of  
South  
Africa's  
main imports  
is equipment  
and  
machinery  
from places  
like India.

Shipping is kind of like  
a Secret Society.  
The Greek Ship Owners'  
Association among others,  
won't reveal how many  
members it has.


One container  
ship emits 3g of  
CO2 every hour,  
while a train emits 15g  
and a truck 1.5g.  
Making container ships  
the most eco-friendly  
form of cargo  
transport.

IN 1955,  
MALCOLM McLEAN  
THOUGHT "WHAT IF  
YOU COULD JUST LIFT  
THE WHOLE TRAILER AND  
PLACE IT ON THE SHIP?"

ONE YEAR LATER THE  
FIRST CONTAINER  
SHIP LEFT THE PORT.

IT IS CHEAPER  
FOR SCOTLAND  
TO SHIP ITS  
COD 10,000  
MILES OVER  
TO CHINA TO BE  
FILLETED  
AND RETURNED  
THAN FOR THEM  
TO DO IT  
THEMSELVES.





**M**ost of us start working in our early twenties, full of dreams and plans for a bright future. For most of us this is the first real encounter we have with financial planning and having to be responsible for our finances.

During our school years most of us do not deal with financial matters. We are only exposed to basic education but not taught how to manage our money. As adults, we have to learn as we go along and, without being taught basic financial literacy, it often leads to a long and complicated relationship with money.

We learn that saving for retirement is essential. We come to realise that on our payslips there is a portion of money allocated to retirement savings. The aim of this is to ensure that we will have money to assist us during our retirement.

But when we are young retirement seems like a lifetime away and there are more immediate needs to be met. Ideally, we should be receiving advice that tells us that it is always best to start saving for retirement as soon as one starts earning a salary.

Without financial education there's the risk of getting ourselves deep into debt and to start thinking about accessing our retirement money. The apparent accumulated large sum locked in our retirement fund can surely assist us in getting out of this

# Why saving for your retirement is important

immediate and looming 'temporary fix' called debt? We start thinking of ways to get our hands on this money by, for example, tendering our resignation.

The option to cash out a pension and take a lump payment can be tempting. But it is far better remain in service and continue to build our retirement nest egg so that we can rely on pension benefits that will largely keep pace with inflation for the rest of our life after retirement. This can only happen if we belong to defined benefit funds such as the Government Employees Pension Fund (GEPF).

The GEPF affirms that the wellbeing of all of its members and pensioners is the reason why it exists and encourages members to save while they are still working so they can be adequately provided for in retirement.


## Benefits of retiring with the GEPF

The GEPF is a defined benefit fund, which means that the pension benefits are paid as an annual pension (payable monthly) that is guaranteed for life. The GEPF has a solid track record when it comes to safeguard-

ing the value of active members' retirement savings and protecting pensioners against inflation.

The benefits of retiring with GEPF include a lifetime pension for the pensioner and access to benefits such as spouse/lifetime partner pension, orphans and qualifying children with disabilities and the funeral benefit which do not come from the members' pockets. Furthermore, members who resign lose essential things such as medical benefits.

The primary role of the GEPF is to protect the wealth of its members and pensioners by safeguarding their retirement benefits through proper administration and prudent investment. The GEPF has paid pension increases that largely compensate pensioners for inflation and, where necessary and affordable, catch-up on increases too.

Saving for retirement is essential if we want the freedom to enjoy our retirement years. 

---

**To find out more about GEPF benefits contact 0800 117 669 or log onto [www.gepf.co.za](http://www.gepf.co.za).**

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# Winter Fashion

## Layering

**A**s the saying goes "less is more" but on a cold winter's day that saying is thrown out the window ... more is more. Layering will keep you warm and look stylish at the same time. We have chosen some looks that will help you look good this winter.

1



2



7



3



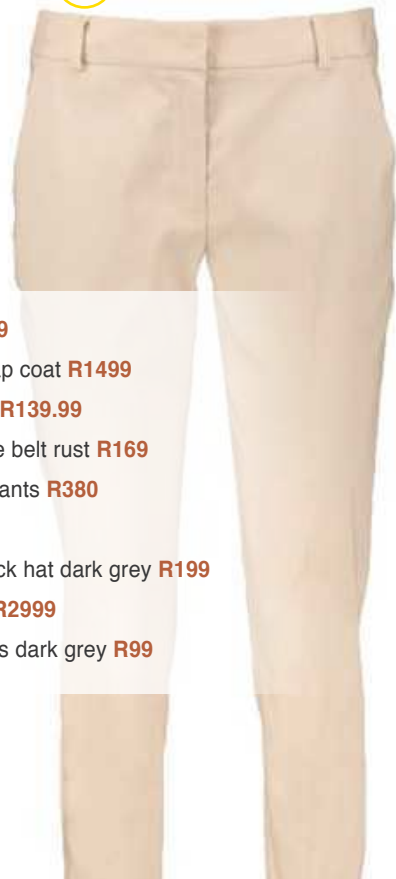
6



8



5



9



4



1. H&M cable-knit jumper **R329**
2. David Jones wool blend wrap coat **R1499**
3. Oakridge Formal fitted shirt **R139.99**
4. Joy Collectables bold buckle belt rust **R169**
5. Woolworths cotton sateen pants **R380**
6. Mr Price snood **R59.99**
7. Queenspark faux fur Cossack hat dark grey **R199**
8. Aldo Catriona cognac boot **R2999**
9. Style Republic quilted gloves dark grey **R99**





1. Forever New poppy mid rise ankle grazer jeans mid blue **R899**
2. RT fluffy pullover **R169.99** | 3. H&M fine-knit scarf **R129**
4. Plum Cambridge black boot **R749**
5. H&M gloves **R229** | 6. Witchery Mira coat **R3599**
7. Queenspark triangle punch-out belt navy **R139**
8. Woolworths denim western shirt **R499**



# A stellar chef

**F**rom humble beginnings in KwaZulu-Natal, the 2016 winner of Mzansi Star Chef, Zamahlubi Shembe, has taken a culinary journey around the world, returning to her roots. During the Mzansi International Culinary Festival

2016/2015 she worked under chefs from Singapore, Senegal, Nigeria, Uganda, Zimbabwe, DRC, New York and North Carolina. But it is her home-inspired – and award-winning – dishes that Zamahlubi shares with PSM readers.

## Starter: Amadumbe and Imbuya salad neziNkobe (dried corn)

### Ingredients

Amadumbe 200g, peeled  
Thyme 45ml  
Salt 10ml  
Imbuya 400g  
Vegetable stock 500ml  
Izinkobe (dried corn) 100g  
Olive oil 15ml  
Paprika 1.5ml

### Method

- Amadumbe: cook amadumbe in the stock until soft – but not too soft.
- Blanch imbuya with salt water and thyme.
- Cook izinkobe with stock for about 40 to 45 minutes. Drain the stock and leave to dry. When it is dry fry with olive oil, paprika, salt and pepper.







## Main: Braised ox liver with uphuthu, pureed beets and glazed carrots

### Ingredients

Ox liver 400g  
Onion 10g  
Cayenne pepper 15ml  
Rosemary 15ml  
Beef stock 750ml  
Chicken stock 250ml  
Salt 2.5ml  
Pepper 2.5ml  
Worcestershire sauce 10ml  
Olive oil  
Maize meal 500ml  
Beetroot 100g  
Aniseed 5ml  
Apple cider vinegar 30ml  
Baby carrots 100g  
Honey 15ml  
Butter 10g



### Method

- Mix together the onion, cayenne pepper, rosemary, salt and pepper and Worcestershire sauce in a bowl with a lid and marinate the ox liver in the mixture for 40 minutes.
- After 40 minutes, sear the liver, browning it. Add the stock a little bit at a time, until the liver is medium rare.
- Bring the stock to the boil, add maize meal and leave it to stand for 2 minutes. Then stir with a fork until it resembles crumbs.
- Leave to cook for about 20 to 25 minutes.
- Cook the beetroot in water until it is soft, then peel it. In a pot, simmer vinegar and aniseed, add the beetroot until it is soft enough to mash then purée the mixture.
- Steam carrots until soft, melt butter, add honey and glaze the carrots.


## Dessert: Isijingi with Nnduhu and dried peaches

### Ingredients

- Butternut 400g, peeled and cubed
- Maize meal 120ml
- Cream 250ml
- Cinnamon 2.5ml
- Butter 15g
- Brown sugar 400ml
- Dried peaches 50g
- Nnduhu (mixed nuts) 60g

### Method

- Cook the butternut in water with sugar and cinnamon. Let it cook until it is soft enough to mash, reserve the water, cool, then purée.
- Add maize meal to the purée and leave to cook for about 5 minutes. After 5 minutes stir until well mixed, add the cream and butter then cook for 2 minutes.
- While waiting for the mixture to cook, chop the nuts and dried

peaches, make syrup and pour on the nuts mixture. Leave to cool, then top the dessert with the nut mixture when serving. 





# Maserati's first SUV blows into SA

**M**aserati has launched the first SUV in its 100-year history, the Levante, in South Africa. As with many Maseratis from the past, the new car's name is inspired by a wind: the Levante is a warm Mediterranean wind that can change from a light breeze to an irresistible natural force

in an instant, mirroring the character of the first Maserati SUV.

Design, exclusivity and performance are the key characteristics of the new Maserati. Distinctively Italian in style, the Levante has breath-taking and iconic Maserati design features that have more than it takes to take on the

BMW X5, Range Rover and Mercedes Benz GLE segment leaders.

The spaciousness of the interior, enhanced by the panoramic electric sunroof, is combined with coupé-sleek external lines and the best aerodynamic efficiency in its category, with a drag coefficient of just 0.31.







## Distinctively Italian in style, the new Maserati Levante more than holds its own in the luxury SUV class.

The new Maserati SUV is based on the Quattroporte and Ghibli architecture, further evolved and refined to meet the expectations of this market segment, in which Maserati will compete for the first time.

The technology applied to every Levante is designed to offer outstanding performance both on and off the road. Sophisticated suspension – double-wishbone on the front axle and multi-link on the rear, combined with electronically controlled damping, four corner air-springs providing five dynamic ride levels (plus one additional park-position), play an essential role in the car's handling.

For South Africa, the Levante is fitted with a 275hp three litre V6 Turbo Diesel, combined with the "Q4" intelligent all-wheel drive system – which can transfer torque between the axles instantaneously when required – and an eight-speed automatic gearbox, with integrated Start&Stop System.

In terms of performance, the diesel-powered Levante (275hp) covers 0-100 km/h in 6.9 seconds, and has a top speed of 230 km/h, while its combined cycle consumption and emission figures are 7.2 l/100 km and 189g CO<sub>2</sub>/km respectively.

A wide range of sophisticated

advanced driver assistance systems is available, including adaptive cruise control with automatic Start&Stop function, forward collision warning, automatic brake assist system and lane departure warning. Further options include blind spot alert, surround view camera and a power-lift tailgate.

Two extended feature packs are available for the Levante, a Luxury-Pack and a Sport-Pack. They both include a variety of distinctive stylistic and technical contents and enable customers to extensively personalise the car's exterior and interior.

The list of accessories, tailored to the vehicle's high-quality and functionality standards, offers a wider array of options than ever before which includes cargo solutions, useful everyday items and a variety of roof carrier or trailer options.

The Maserati Levante is built in a dedicated, completely refurbished and modernised area of the Mirafiori plant in Turin. The first cars have already come off the assembly line and the market launch is planned for this spring in Europe, followed by the rest





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# The Yearning

## by Mohale Mashigo

**Mohale Mashigo's debut novel *The Yearning* marries modernity with African tradition to create a bewitching addition to the current South African literary boom.**

**M**y mother died seven times before she gave birth to me." With this opening sentence Mohale Mashigo introduces her theme, in lucid magical realism. You are pulled into the protagonist's world from the onset.

*The Yearning* is Mohale Mashigo's debut novel, boldly told in the first person. Events are seen through the eyes of Marubini, a marketing executive at a wine farm near Cape Town. Marubini, known as Rubi to her friends, seems to be a functioning adult. She has a good job, a nice boyfriend and friends who enjoy her company. Everything is fine – until the yearning of the title awakens in her.

We go back to Rubi's childhood, when she spends most of her time with her grandfather. He takes care of her, nurtures her and believes in her. He tells her stories about their family, he cooks for her and plays mura-baraba with her.

They have a beautiful relationship. Then her grandfather falls ill, and dies.

"Something was wrong inside me, but I didn't know how to tell anyone," Rubi says. "The teachers didn't seem cross with me anymore. Now they looked at me strangely." After her grandfather's death, she has to wrestle with many emotions, emotions she can't quite place or explain.

Rubi's yearning has its roots in her grandfather's death. It is here that you see her longing for a map or a compass to direct her into a place of healing.

But even before the death, something happened to her. This prior incident stays in the corners of her mind.

### An awakening

Years later, the adult Rubi starts to fall apart, first in her apartment and then at work.

Everything around her has voices, and the walls in her apartment are caving in on her. Her bathtub wants to drown her. School children are loudly singing songs around her. Her own mind is turning on her. She starts having seizures, and lands up in hospital.

But were they really seizures? Why

were those children singing so violently in her ear? What is she waking up to?

The themes of loss, healing and consciousness make *The Yearning* a strong novel. Rubi must first unravel a loss she never knew existed, confront its existence and then break free from its bondage. She must first wake up. The awakening is metaphorical and spiritual – much like the novel itself.

*The Yearning* is an enchantment. Mashigo is not afraid to marry African traditions with those of modernity to help find a cure for Rubi. Both traditions are treated with respect. Both are believable, and Rubi – a well-educated woman – decides for herself which she prefers for her healing journey.

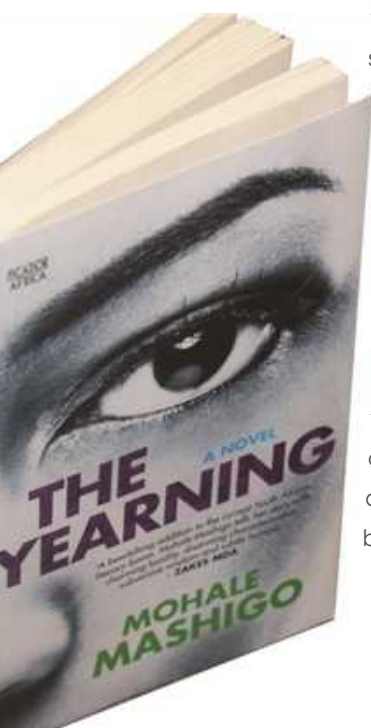
Zakes Mda, the veteran South African author and playwright, has high praise for *The Yearning*: "A bewitching addition to the current South African literary boom. Mohale Mashigo tells her story with charming lucidity, disarming characterisation, subversive wisdom and subtle humour."

It is an important novel, especially at a time when the world is waking up to the horrors of human trafficking and the abuse of women and children. Mohale manages to make these issues personal, gives them a context, and provides a route to healing. ●

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***The Yearning* by Mohale Mashigo is published by Picador Africa.**

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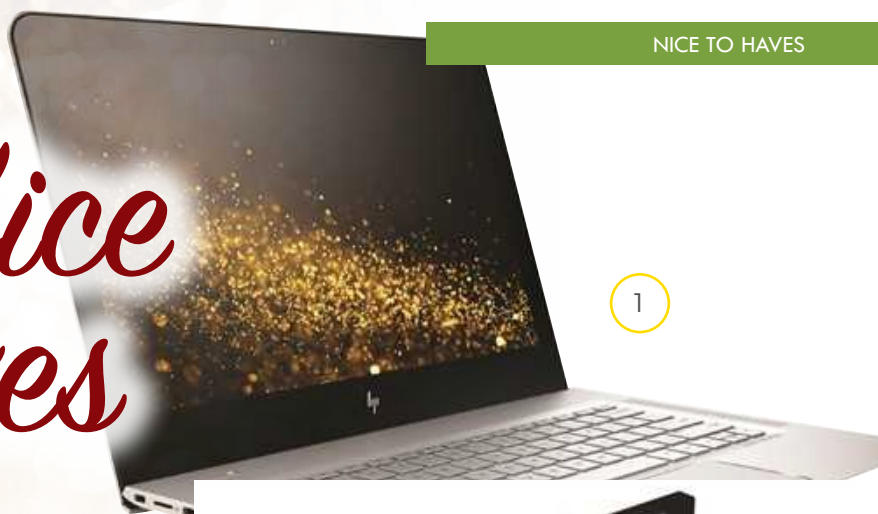
Our team will create a storyboard ahead of production, so that you're 100% clear on what we will be shooting in terms of the raw footage.



# Home Office Must-Haves

If you've just started or already have your own home office, why not spruce it up with some modern must-haves that will brighten up your space, bring in functionality and make you feel at home while you work.

1. This remarkable laptop perfectly blends desirable features into a beautifully elevated design. **HP Envy, HP Store**, starts from **R14 999** for the 5-inch i5 processor
2. This simple and elegant hanging wooden shelf can hold picture frames, decor or books. It's by **Simply Home**, available at [www.YuppieChef.com](http://www.YuppieChef.com), **R4993**.
3. The most delicate of blooms now have the perfect pot. We love this self-watering orchid pot, **Eva Solo, YuppieChef, R999**.



4. We love this fun wall clock by Sarah Jane, [YuppieChef.com](http://YuppieChef.com), **R319**.
5. Spruce up your office wall with some words to live by. Try this Good Vibes Only frame by **Simply Home, www.YuppieChef.com, R109** without the frame and **R329** with a standard black frame.



# Living with multiple sclerosis

Multiple sclerosis, known as MS, is a condition that seldom grabs the headlines. Yet it is an unpredictable and at times disabling disease of the central nervous system that affects more than 2.5-million people the world over.

**M**ultiple sclerosis is not a contagious disease, and it is not hereditary, so where does it come from? The exact causes of MS are not completely known, although recent research has brought us closer to understanding many of the mysteries of the disease.

Mounting evidence suggests a link between MS and exposure to the Epstein Barr virus, the virus that causes glandular fever. Researchers have found that patients with MS carry a population of immune cells that overreact to Epstein-Barr virus, with some people particularly susceptible to developing MS.

Genetics also seems to play a role in the development of MS. So too does a lack of vitamin D, which is

manufactured in the human body after exposure to ultraviolet radiation from the sun's rays.

## A disease of the central nervous system

According to Multiple Sclerosis South Africa, the disease attacks the myelin sheath, which protects the nerves in the central nervous system. The attack leaves behind many scleroses, or scars – hence, multiple sclerosis.

This can affect nerves anywhere in the body, and interrupts the flow of communication between the brain and the body, which is why those suffering from the disease can develop such a range of impairments.

MS is a disease characterised by



## The signs of multiple sclerosis

Early symptoms of MS may include the following.

- Strange sensations in the limbs – tingling, numbness, itching and pain.
- Loss of vision in one eye.
- Double vision.
- Suddenly losing balance or having difficulty walking.
- Weakness in one limb.

loss of feeling and loss of control of parts of the body. The consequences can be devastating, as the disease attacks the brain, spinal cord and nerves of the eye, causing physical debilitation and a number of different types of disabilities.

Just how much disability a person will experience from MS, and when, is largely unpredictable, like so much else about this disease.

Most people with MS experience occasional relapses that tend to advance the progress of the disease. However, patients may live for many years without their condition deteriorating.

## Progression

As the disease progresses, those suffering from the condition may experience severe fatigue and loss of mobility.

Being dependent on others for help and constantly having to ask for assistance can be devastating and depressing. Under these circumstances, or for a time just after a severe relapse, people with MS can enhance their independence with the use of a wheelchair.

One serious consequence of the public's misunderstanding of MS has a huge impact on how people cope with the disease.

Because employers in particular don't realise that a person with MS has a good life expectancy, and can be helped by modern drugs to remain productive, patients are afraid to tell employers that they have MS as they fear they will lose their jobs.

This secrecy may result in feelings of depression and anxiety for the person who has MS.

People with MS must not be scared to seek help from the start. MS is not that common, but there are still many sufferers. It is also important to remember that because there is no cure it does not mean that there is no treatment.

## Understanding

One final factor which may impact on your emotional state if you have MS is the understanding of friends and

family. MS people need help when they ask for it but, most of all, they need the affirmation that they will be treated as ordinary human beings.

Awareness and understanding of the disease by the general public will help everyone with MS, and the people who live with them and care about them.

GEMS can help you to get more information on your healthcare needs. Phone the call centre on 0860 00 4367 and GEMS will assist you in every way possible to ensure your family's health and wellbeing.



### How is multiple sclerosis treated?

Most patients diagnosed with MS can expect no real difference in life expectancy. And with advances in treatment, many of those years will be productive and free of serious disability.

Although there is no cure for MS, much can be done to treat symptoms. New drugs can also delay the progression of the disease.

Using state-of-the-art bioengineering techniques, interferon beta 1a, which is the same as the natural interferon beta, can be manufactured and administered to MS patients.

Interferons are proteins naturally produced in the body, and one of them, interferon beta has been proven to be active in MS.

Interferon beta 1a is able to extend the time between relapses by almost double. It also reduces the severity and total number of relapses. This seems to be because the interferon is able to enhance the actions of the immune system. ●



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# Desert offers oasis of adventure

**Dubai is much more than a shoppers' paradise. Beyond the purveyors of high-end high-priced luxury goods lies all kinds of adventure. If you feel the need for speed say hi to Dubai where you can swim, sandsurf, snow ski and float in the sky.**



One cannot visit the desert and ignore the magnificent beauty of the majestic sand dunes and vast open spaces which dwarf the newly created metropolitan feel of Dubai's city centre.

Whisked away in a luxury Land Cruiser towards the setting sun, leaving civilisation behind us, I have little time to contemplate exactly what I am in for.

After an hour our Arabian driver stops to let air out of the tyres while I sneak off for a pit stop of my own to gather my thoughts and prepare for what was to come.

As I nervously struggle to strap into my seatbelt it is clear that the tyres may have been deflated but the driver's sense of adventure has grown inflated.

I am in awe of his handling of the

vehicle in the sand. The desert chauffeurs are a clan of "desert surfers" who scour the landscape in search of the "lip" of each and every dune, performing some of the most absurd cutbacks imaginable then racing down the dune and then rejoining the convoy of luxury Land Cruisers snaking their way through the desert.

Judging from my gasps and those of the multigenerational family of six in the back it is clear that this is a

new experience for all of us. Yet, after glancing to my left I'm reassured by the calm and professional demeanour of our Arabian guide and driver. Without him having to speak a word I quickly comprehend what skills these men possess and slowly begin to relax in my navigator's seat.

Just as I begin to feel at home in my comfy leather throne, we stop for dinner.

An Arabian feast is set within ➡





the walls of a desert camp. Some choose to smoke sheesha with new-found friends whilst others prepare for their first ride on a camel before settling down to enjoy dinner and performance of belly dancing.

Whether you are visiting for business or simply catching a connecting flight, Royal Arabian Destination Management gives one the opportunity to experience the best of the desert in an afternoon. For those with limited time it is certainly one of the best ways to experience Dubai.

All too soon I find myself back in the vehicle heading towards the glow of the city lights. I am glad I am not headed back to the busy Dubai airport just yet.

For now I will give myself two weeks to explore all Dubai has to offer and give some insight to those opting for more than the 96-hour transit visa.

## Swop heat for water, air and ice

Waking up to temperatures exceeding 30 °C and rising fast, it was time to take a plunge. There certainly are some exquisite beaches in Dubai. Walking along the beachfront is an experience in itself. While you stroll towards the water that will provide relief from the searing heat you take in slick architecture, luxurious cars and shop windows displaying some of the finest brands in the world.

Most people are here to work, so the beaches are fairly quiet during the week. Dubai is neither windy, nor cool which means every day is a good day for the beach. I made the most of the weather by frequenting many of the public beaches. My favourite was JBR beach which has spectacular views of the city skyline.

If you are looking for adventure rather than relaxation the Wild Wadi Water Park in the area of Jumeirah not only offers whimsical views of the Burj Al Arab and the Jumeirah Beach Hotel, it is sure to get the adrenaline pumping because it has some monstrous waterslides. I follow signs to one such slide, "Jumeirah Sceirah" but am convinced I am going the wrong way. As if I were a salmon returning to its place of birth, I fight my way up the stairs through throngs of people all coming down the stairs.

When I get to the top I am assured that my sense of direction was spot on but my sanity might need scrutiny. I understand why so many people came down the stairs. There is no time to ponder that: before I know it, I am hurried into a capsule and a "three...two...one" countdown leads to the click of a switch which activates a trap door, dropping me vertically into an endless abyss of fear.

Dubai offers one of the world's best skydiving facilities. Although my ad-

diction to adrenaline is growing now, I am not quite ready to throw myself out of a plane. Instead I opt for iFly Dubai, which is a fantastic alternative. Thrust into a wind tank I find myself hovering weightlessly in anticipation of my guide's next hand signal and within two minutes I have shown gravity who is boss; gliding, spinning and turning as if I were born to fly.

The Burj Khalifa still stands as the world's tallest building and The Burj Al Arab is considered the top seven-star hotel in the world. However, this is not where Dubai's "bigger is better" and "what can't be done shall be done" mentality ends.

It comes as no surprise that a country known for its sweltering heat and arid landscape also makes room for a winter wonderland. Before my body has time to process the massive drop in temperature, I am on a chairlift gazing at the activities showcased within the ski dome. Screaming people attached to ziplines whizz over my head, while kids whoosh along in toboggans and slide tubes down below.

From jumps and rails to a relaxed stroll amongst the penguins, Ski Dubai caters for every level of skiing enthusiast. While I sit in the mountain cabin I sip hot chocolate and my fingers thaw; at that moment it is hard to comprehend the intense dry heat outside.



## Full-throttle sand sport

Riding in the desert with Royal Arabian Destination Management had me elated so I am eager to make my way back, but this time I want to take control of the wheel. It is with this in mind that I come across Big Red Motorsports, a biking company which allows riders to get a feel for Dubai's desert landscape. They have a range of motorbikes, quad bikes and rage buggies which are ideal for exploring the desert.

Unearthing every type of human emotion, from sheer fear to fist-

pumping passion, this is an experience that leaves me breathless. I pass Bedouin camel farmers as I open the throttle on Dubai's largest playground.

Big Red Motorsports have numerous packages on offer from a one-hour session offering to basics to an all-inclusive day out raging with the machines and testing the extent of your own limits. My bike jumps from dune to dune. The feeling of elation is quite inexplicable as my confidence grows and thoughts of the Dakar Rally are interrupted by the setting

sun and the quiet click when we switch off the engines.

One of the great things about Dubai is that it attracts people from all over the world. The people of this cosmopolitan Emirate have a vibrant and unique multi-racial, multi-national, multi-lingual society.

As the time for me to head out draws closer, it is not hard to find people heading to the sandpit for one last braai with friends, old and new, to say goodbye to a place that had been home for the last two weeks.

## BEFORE YOU GO

**Visas:** As a South African you need a visa to enter Dubai and if you are staying longer than four days (96-hour visa costs R560\*) you should be issued with a 30-day visa. However, if you fly Emirates you can apply for this visa through their website once you have booked your ticket. The visa costs R690\*

**Language:** Whilst Dubai has a very cosmopolitan feel to it with people from all walks of life, if you can communicate in English you will manage just fine.

**Money:** Be sure to pack plenty of it. Dubai uses the Dirham and the exchange rate is presently R3.64 : 1 \*. Currently sales taxes are not levied.

**Water:** As Dubai is in a desert, you may be thinking water will be scarce. However, as with most things in Dubai, there is an elaborate plan in place. Dubai is home to the world's largest desalination plant so most of their water supply is processed here. Whilst the tap water is drinkable most people prefer to drink bottled

water owing to the lack of minerals in the desalinated water.

**Planning ahead:** The Government of Dubai's Department of Tourism and Commerce Marketing was very helpful in identifying some great experiences to be had in Dubai. For other ideas on things to do in Dubai visit their website; [www.definitelydubai.com](http://www.definitelydubai.com), or contact them by phone on +27 11 702 9600.

Places worth a visit:

Wild Wadi water park – [www.wildwadi.com](http://www.wildwadi.com)

Ski Dubai at the Mall of the Emirates – [www.theplaymania.com/skidubai](http://www.theplaymania.com/skidubai)

iFly Dubai at Merdif City Centre Mall – [www.theplaymania.com/ifly](http://www.theplaymania.com/ifly)

Royal Arabian Destination Management – [www.royalarabian.com](http://www.royalarabian.com) •

**\* Information accurate at time of publication. Costs subject to change without prior notice**





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