



GAUTENG PROVINCE

INFRASTRUCTURE DEVELOPMENT
REPUBLIC OF SOUTH AFRICA

GAUTENG INFRASTRUCTURE NEWS

Stakeholder News and Information

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2018/2019 Budget Speech delivered on Freedom Charter Day



2018/2019 Budget Speech Summary



IGR central to success of infrastructure programme



Infrastructure Update: the pulse of Engineering and Construction



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Rannoi Sedumo
Chief Financial Officer

I/We pledge to take a firm stand against burning, vandalism, littering and any form of destruction of public property.

I/We further pledge to care for, preserve and protect public property as the common heritage of all the people.

DID and UJ partner on smart technologies for efficient service delivery



MEC Jacob Mamabolo, HoD Bethuel Netshiswinzhe, Professor Tshilidzi Marwala and Dr Nolitha Vukuza

By Theo Nkonki

Early July 2018 saw the MEC for the Department of Infrastructure Development (DID) Jacob Mamabolo and University of Johannesburg Vice-Chancellor Professor Tshilidzi Marwala sign a partnership agreement paving a way for the use of cutting edge technologies to ensure that the delivery of social infrastructure is more efficient. The two leaders signed a Memorandum of Understanding (MOU) which will see UJ providing scientific research to assist the department in delivering quality infrastructure on time, within cost leveraging on the opportunities that come with the fourth industrial revolution and artificial intelligence.

"The signing of the partnership today builds on the MOU signed by the Premier David Makhura in 2016 with all the Vice-Chancellors of universities in the province. As a country and a province, we can't afford to have high rates of investment in infrastructure while we have low rates of economic growth," Mamabolo said.

He added that the partnership was in line with the Gauteng Provincial Government strategic programme of Transformation Modernisation and Re-industrialisation. The partnership was concluded just two months after DID launched its "eye in the sky", the drone programme, which has strengthened the department's ability to monitor work being done on the ground in 340 projects that it is delivering in all development corridors of Gauteng City Region.

"Through the partnership, we are building a Silicon Valley of infrastructure delivery. It will help us find solutions to smart infrastructure, meaning buildings that can respond to climate change, but also delivering infrastructure the smart way," Mamabolo added.

Professor Marwala concurs. "The fourth industrial revolution is upon us and it will have a tremendous impact on every aspect of our lives. To understand it, one needs to understand the history of industrial revolutions. So, it is a great pleasure to sign this certificate



of partnership which will help us serve our people," said the professor. UJ is the largest university in Johannesburg and prides itself as the University of the Fourth in industrial revolution in the African continent.

The world acclaimed leading scholar on artificial intelligence, Professor Marwala also pointed out that his grandmother was his first engineering teacher who taught him how to predict the failure of buildings in advance. "It means we should incorporate indigenous knowledge systems into our curriculum, research and innovation agenda, which means that Africans should not be alienated from science."

"At UJ, we offer courses in vibration analysis, signals and systems, thermodynamics and artificial intelligence. These are necessary to take the framework I was taught by my grandmother into the fourth industrial revolution so that South Africa is not a follower but an active player," said Prof Marwala.



During the MOU Signing



Drone image of a construction site

2018/2019 Budget Speech delivered on Freedom Charter Day



MEC Jacob Mamabolo

By Alfred Nhlapo

The 2018/2019 Budget Speech delivered on the 26th of June 2018 at the Gauteng Provincial Legislature is a summary of a solid foundation for a smart Department of Infrastructure Development laid over the last four years, and going into the future.

Delivered on the same day on which the historic Freedom Charter was born sixty three years ago, the speech represents a huge departure from a traditional way of developing public infrastructure, ushering in an era of uniting cutting edge technologies with human intelligence for high impact infrastructure delivery.

The infrastructure programmes funded to the tune of R3billion as of the 2018/2019 financial year to the year 2020/2021 will be implemented through a combination of new innovations such as DID's unique Project Readiness Matrix, the Lutsinga Nerve Centre, and the Drone Monitoring Programme. Addressing the provincial lawmakers and the public gallery hosting the department's stakeholders and the media, MEC Jacob Mamabolo said the days of the department being a mere brick-and-mortar vehicle were gone.

"Our department has come a long way in building the capacity of the state to ensure that we don't just deliver brick and mortar, but that we become a catalyst of development as a propeller for socio-economic growth in our province".

He said the innovations have taken the work of the department out of a dark corner in the basement and created a transparent platform that enables stakeholders to hold it to fully account on its performance. This had also enabled the department to identify all the problem areas that have been negatively



DID Delegates attending the Budget Speech

affecting efficient delivery of projects in communities. The focus was now on addressing all the bottlenecks that had been impacting the business value chain of project delivery.

"Today, we can say to colleagues and the people of our province that we are the home of the Infrastructure Delivery Management System, the framework through which we manage the people's immovable assets end-to-end that is from land and property management, to construction and maintenance", said MEC Mamabolo.

Turning to job creation, he said a total of 31 034 work opportunities were created by Provincial Departments in terms of the EPWP, while Provincial Municipalities had created a further 26 027 work opportunities during the previous year. Work was now being done to impart more practical skills to people exiting the programme through partnerships with TVET Colleges and UJ, among others.



DID Construction sites

2018/2019 Budget Speech Summary

In the 2018/19 financial year, DID has been allocated a budget of R3 billion and will be furthermore managing an additional R4.5 billion infrastructure budget on behalf of client departments.

EDUCATION INFRASTRUCTURE



Olievenhoutbosch Secondary School

The newly built Olievenhoutbosch Secondary School is fitted with modern technology such as intercom, CCTV camera, Wi-Fi and network systems, and green initiative features. Nine other completed projects include renovations and rehabilitations of Con Amore Primary School Grade R facility, construction of Grade R classrooms at Mahlodi Primary School, among others.



DID has also completed the rehabilitation of the sinkhole at Lyttelton Manor High, restorative repairs at Randfontein High, Hoërskool President, Makgake Primary, Mezodo School for Learners with Special Education Needs (LSEN), Delta Park LSEN, as well as Coronation Secondary School.

HEALTH INFRASTRUCTURE



New Kekana Gardens

DID is at an advanced stage in the completion of two NHI clinics – the New Kekana Gardens and the Dewagendrift clinics respectively. Three other NHI pilot clinics are at early stages of construction.



The procurement process for the major refurbishment of the Emergency Unit and Neo-Natal Ward at Chris Hani Baragwanath Hospital has also been finalised during the year. In 2017/2018, DID completed Ward Five in Sterkfontein and the state-of-the-art Doctors And Nurse's Accommodation at Thelle Mogoerane Regional Hospital. The department has conducted a feasibility study in the form of condition assessments for all 32 hospitals, as part of its maintenance turnaround strategy. With additional support from the Provincial Treasury, we plan to establish a fully-fledged facilities management capability.

STARS INFRASTRUCTURE [Sports, Transport, Rural Development, Social Development]



Mary Moodley CYCC

Construction work has also started on the following community libraries: Akasia, Atteridgeville, Kokosi, Impumelelo, Randfontein, Boipatong and Rust-Ter-Vaal. DID also made significant progress in the construction of the Kwasokhulumi Early Childhood Development (ECD) Centre, while three (3) other ECD's are currently at the planning stage. The total value of these projects amounted to R181 million.

GREEN INFRASTRUCTURE



Rooftop Solar Project



The department is implementing different renewable energy projects in line with the Provincial Energy Security Strategy. This includes the Waste-Water Recycling Project, the AquaTrip Water-Saving Project, the Rooftop Solar Project, and Glazing and the Rainwater Harvesting at schools, amongst others.

IMMOVABLE ASSETS



Student Accommodation



DID is responding to the call by the Honourable Premier to develop and implement the Rapid Land Release Programme. We have partnered with all Universities in Gauteng and through this process, the province will release land to support their infrastructure needs, including student accommodation.

EPWP



EPWP beneficiaries



The department will be launching the Moses Kotane Skills Centre (MKSC) to fulfil the skills development role for EPWP beneficiaries. This is the beginning of a massive Back-to-Class call-to-action for our beneficiaries.

BUILDING INTERNAL CAPACITY



On building internal technical capacity and, DID boasts of a capable work force of 86 registered built environment professionals. Furthermore, the department has in its ranks, 61 officials who are registered as candidates in various disciplines and 573 artisans.

Construction of New Rusteval Library on track in Sedibeng District Municipality

By Thomas Lethoba

The foundation for the construction of the new Rusteval public library currently underway in Sedibeng District Municipality has been successfully laid and the project which is in its early stages is also progressing well.

Officials of the Department of Infrastructure Development are working tirelessly with members of the community in ensuring that the project starts on a solid note.

At the time of last site inspection the project was sitting at about 10%. The scope of works so far includes bricklaying, foundation, design, engineering and construction.

The facility is being built on behalf of the Department of Sports, Arts, Culture and Recreation. Upon completion the library will help meet the needs of the residents who have been travelling longer distances to access library services. The completed library will empower members of the community with e-learning systems, collection of sources of



Rusteval public library currently under construction

information and accessibility of learning areas. The DID Stakeholder Management Regional Coordinator Mr Tinyiko Hlungwana says the department's project managers in ensuring successful implementation of the project. This includes contributing to job creation and skills transfer through the participation of local residents and emerging enterprises in the project.

Hlungwana says members of the community have thus far been very supportive of the project and taking care of the public properties in which are aimed to serve them.

The project is scheduled for completion in early 2019 and the budget allocation for the project is R13 million.

Historic Boipatong community to gain new library



By Esther Motlhabane

The department is building a new library in the historic community of Boipatong in Emfuleni Municipality whose painful experience during the negotiated settlement for a democratic order in the early 1990s captured the attention of the world.

The new facility, which will empower the people of the area with knowledge within reach, is one of the set of projects that the department intends completing in early 2019 as part of its new multiyear project pipeline. Community members have fully embraced the project and

are participating in its implementation as part local empowerment though skills and access to job opportunities.

The project is currently in its foundation phase. The old library was old and we had to build another one because that one was not in good condition.

According to the project managers one of the challenges that had to be overcome before the implementation started was that of the physical geography where much of the land



Foundation phase of the project

is waterlogged. The area of Boipatong is surrounded by water that is why it was difficult to fast-forward the project because they had to consistently dig a hole to maintain longevity of the infrastructure.

Intergovernmental relations central to success of infrastructure programme

By Alfred Nhlapo

The use of intergovernmental relations forums as a common platform for strategic planning, communication and integration is crucial for the success of the Gauteng City Region's combined massive public infrastructure build programme currently taking place in various municipalities. Such forums also enable government bodies to identify and unlock infrastructure delivery bottlenecks so that solutions may be coordinated timeously and effectively.

This was said by the Director General (HOD) of the Department of Infrastructure Development Mr Bethuel Netshiswinzhe during the technical meeting of the Gauteng Intergovernmental Infrastructure Forum held at the Council Chambers of the Ekurhuleni Metropolitan Council, in Germiston, on June 29, 2018. The forum is made of executive directors from all municipalities as well as senior provincial officials.

Netshiswinzhe was accompanied by the DID Deputy Director General for Corporate Services Ms Masabata Mutlaneng who is also responsible for the Expanded Programme, a job creation and skills development agenda that brings together all spheres of government in addressing unemployment and skills scarcity in communities.

Netshiswinzhe said the fact that the province was currently developing mega-human settlements made the intergovernmental forum even more central in addressing cross-cutting issues, including the framing of the various challenges in municipalities. This would then help develop the most suitable solutions in this regard.

"There must be no room for assumptions in regards to infrastructure planning needs. We need to develop one common programme through which the province will better coordinate the development and planning of infrastructure in the province. This forum must help us address infrastructure backlogs through the



HoD Bethuel Netshiswinzhe, Mr Alan Zimbwa and Mr Neil Pillay

sharing of plans, approaches and information in regards to challenges. The forum should also continuously look at long term plans and ensure alignment and integration", said Netshiswinzhe.

The meeting said the development of suitable funding models and approaches was also dependent on proper consolidation of infrastructure build programmes between province and the municipalities. This would help bring into reality a cross-cutting Gauteng Infrastructure Master Plan as well as the development of a common response across sectors.

The department is currently looking at developing a register of all infrastructure projects in the province with the view to

present to the MEC-MMC Forum in due course Treasury would soon be approached in regards to standardisation of rates for community participants on infrastructure projects.

The forum also noted that the Gauteng Premier David Makhura would be hosting a provincial climate change summit before year end. He is also World Co-President of the Mega-Metropolis, which is an organisation representing 138 cities and also hosting the global meeting in Sandton in August 2018.



DDG Masabata Mutlaneng



3-in-1 Water Saving Technology

By Livhuwani Muluwhu & Thozama Ntsale

Water is essential for life on earth. The water supply may seem abundant but water is not an infinite resource, particularly fresh potable water. SA is facing challenges to come up with innovative water management strategies to address the water scarcity problem. Without water conservation efforts, the current supply of water may be exhausted. In Gauteng, schools use a significant amount of water in their daily operations, with the largest use of water being in the restrooms.

DID in partnership with The Innovation Hub piloted a water efficiency project in two public schools to promote water savings and avoid the unnecessary wastage of water. The technologies were installed at Madiba Comprehensive High and Sithembiso Primary Schools.

The 3-in-1 means the installation of three water saving technologies in each school which include: the waterless urinary system; Aerators - bathroom and kitchen sink taps; and cistern water efficiencies; the Leak-Less Valves and Water Saving Hippo bags.

Waterless urinal system

This technology replaces the standard urinal trap seal with a disposable one that contains a specially formulated valve, which provides better hygiene by trapping odours away. It saves 100% on the cost of using water to flush urinals, 100% on sewer charges, and reduces up to 75% for maintenance cost of conventional urinals.

Water aerators

The biggest water saving benefit is achieved in the bathroom or kitchen sinks where people are often turning the taps on and off. Aerators reduce the water coming through the faucets by mixing it with air.

Bathroom one-touch faucet aerator

A one touch to turn it on and it will turn itself off after 3-20 seconds depending on the setting. Water savings up to 80% on bathroom taps can be achieved.

Kitchen sink water aerator

This is fixed with a flow regulator to achieve a flow rate of less than 6Lts per minute compared to the 15Lts per minute in typical kitchen water taps without compromising the water pressure.

Cistern water efficiency

Leak-Less Valve

The valve is placed in the toilet cistern and locks at a predetermined level after each flush, prohibiting an excess influx of water and pre-emptively stopping water flow in the instance of a leak. Therefore, it serves as a leak detector. This prevents 70% of the water loss in toilets due to toilet leaks, when the toilet is not in use.

Hippo Water Saver Bag

This bag has small holes, allowing water to flow in and out of the bag, making sure the water stays fresh. It slows down the outflow of water from the cistern, saving litres of water with each flush. This technology is useful in older ablution toilets.

Winning back the trust of suppliers and service providers

By Philemon Motshwaedi

The Gauteng Department of Infrastructure Development is 1% away from attaining 100% percent resolution of incoming queries on the 30-Day Payment email facility. And the Finance Unit wants to thank everybody for their cooperation.

The prudent financial management systems and processes that have been introduced by the Finance Branch of the Department, under the stewardship of Chief Financial Officer, Mr Rannoi Sedumo, have ensured that there are minimal queries coming forward in this financial year.

Through the 30-Day payment project, where each email that is forwarded to the MEC as a query over payment, the Department has been relentless in following-up every detail of each query and working tirelessly to resolving and unblocking any areas that makes the invoice in question not to be paid.

This long-standing issue relating to the inability of government departments to pay service providers on time had in past impacted negatively on public perceptions about doing business with government. Trust amongst Small, Micro and Medium Enterprises was eroded. However, at DID, we made significant progress on our path to restoring this lost trust.

The efforts in attending to and resolving the email queries, are taking the DID in the right direction towards rebuilding trust with all suppliers and service providers. We have indeed turned the corner and are well on our way to healthy stakeholder relations with all those in business with us.

Description	Number	%	Amount	%
Number of open/outstanding queries	21	6%	5 063 506.44	2%
Number of queries resolved	329	94%	232 297 715.67	98%
Total number of queries lodged/amount	350	100%	237 361 221.57	100%

Aging Analysis of Open Queries

Description	Total	0-30 Days	31-60 Days	61-90 Days	91+ Days
Total amount of open queries as at 20/07/2018	5 063 506.44	1 714 178.51	486 206.68		2 863 121.25
Number of open queries as at 20/07/2018	21	1	1		19
% by amount of outstanding queries	100%	34%	10%	0%	57%

UNESOLVED					RESOLVED			
Week Ending	Number	%	Amount	%	Number	%	Amount	%
2018/07/20	21	6%	5 063 506.44	2%	329	94%	232 297 715.13	98%
2018/07/02	21	6%	5 063 506.44	2%	329	94%	232 297 715.13	98%

GDID 30-DAYS EMAIL PAYMENT PROJECT

Drop us an email @
MECDID.30dayspayment@gauteng.gov.com
to ensure payment. If you have not been paid in 30 days, drop us an email.

INFRASTRUCTURE — NEWS —

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Infrastructure Update: the pulse of Engineering and Construction



Compiled by Alfred Nhlapo



South Africa to play host to the 2018 BRICS Summit

With South Africa having joined the BRIC group of emerging economies a few years ago it is commendable how the country has since taken its place amongst the rising giants of countries that account for 41% of the world population and 23.2% of the world gross product. Fast forward to July 2018 and the country is now hosting the BRICS Summit at the Sandton Convention Centre and also set to chair the gathering. The location of the newly established BRICS Development Bank Regional Office in the country also points to the crucial role that infrastructure development is likely to play over the next few years and beyond. Much is expected from the gathering of leaders of Brazil, Russia, India, China, and South Africa from the 25th to the 28th of July, including programmes on trade, job creation, growing the economy and investment, as well as reducing poverty. – [Editorial Comment](#)



labour

Department:
Labour
REPUBLIC OF SOUTH AFRICA

DoL and private sector launch Occupational Disease Prevention Campaign

Engineering News reports that the compensation funds of the Department of Labour and the Rand Mutual Assurance (RMA), and Federated Employer's Mutual Assurance Company have launched the Occupational Disease Prevention Campaign with the view to lessen the burden on the families of injured workers. – [Engineering News](#)

Read full article here: http://www.engineeringnews.co.za/article/occupational-disease-prevention-campaign-launched-2018-07-06/rep_id:4136



North West's Madibeng Water Plant construction takes off

In Bokone Bophirima Province the construction of the much anticipated Madibeng Water Plant is set to commence after receiving funding to the tune \$7million. Water and Sanitation Minister Gugile Nkwinti led the official launch – [Construction Review](#)

Read full article here: https://constructionreviewonline.com/2018/07/south-africa-to-complete-phase-1-of-madibeng-water-plant-in-2019/?utm_source=Magazine+Offers&utm_campaign=67ebda2076-newsletter_COPY_115&utm_medium=email&utm_term=0_a89c87e295-67ebda2076-161798457

DID Commemorates Madiba Month

#BeTheLegacy



2018 #BeTheLegacy

100
Nelson Mandela
Centenary
2018
Be the Legacy