



City of Johannesburg
Johannesburg Roads Agency

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Media Release JRA Reveals the State Joburg's Road Network

Johannesburg Roads Agency's (JRA) has released the results of its latest assessment of Joburg's roads network. In comparison to 2013 results, the study indicates that very good and good surfaced roads have decreased from 52% to 45%. Poor and very poor roads have increased from 27% to 32%. While 72% of gravel roads are in a poor or very poor condition.

The study identifies and categorises roads for maintenance, gravel roads upgrades, reconstruction and resurfacing across the city's 13 599km road network. The current state of Johannesburg Roads is that 32 % of surfaced roads which make up 3 968km requires reconstruction, 45% of surfaced roads which make up 5581km is in very good and good condition may require ad hoc maintenance, and 23% of surfaced roads which make up 2 852km require resurfacing. Of the 1168.53km of gravel roads, 72% require reshaping and re-gravelling.

JRA Acting Managing Director, Goodwill Mbatha said: "In terms of engineering standards, the roads condition index across the city has decreased from 89% in 2013 to 64% at present, this indicates a 25% increase in the deterioration of the road network condition. The study indicates roads are still deteriorating and present funding allocated is inadequate to address the rate of deterioration. Annual budgets therefore, require a greater fiscal investment to reverse the deterioration of roads and ensure a safe road network."

Findings from the lengthy study will inform JRA's budget and planning for the next three years. The field work to capture data across the city's network took approximately 12 months and this was followed by months of analysis and reporting to consolidate the study. "JRA's roads study known as the Visual Conditions Assessment (VCA), is an extensive undertaking in which every kilometre of road is examined and assessed. Johannesburg's road network is made up of 1168.53km of gravel roads and 12 390.93km of surfaced roads. The study also indicates that the total network has increased by 131km since 2013 due to new private developments requiring new access roads", said Mbatha.

JRA's total capital budget for 2017/2018 is R1 213 million of which R247 million have been allocated towards roads. The allocation is split with R147 million for resurfacing and R100 million for reconstruction. However, due to historical underinvestment in roads prior to 2013 compounded by deterioration as a result of environmental factors such as climatic conditions, increased traffic volume and percentage of heavy duty vehicles, Johannesburg's road network is at present faced with a R7.1 billion backlog of which road resurfacing requires 4.26 billion and reconstruction 2.84 billion.

JRA's Rehabilitation and Reconstruction Programme and on-going Roads Resurfacing Programme forms part of the JRA's 10-year Roads Development Plan to achieve targeted road

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Non-Executive Directors: L Mashamaite, Q Buthelezi, S Thunzi, P Govender, T Magerman, K Sihlali, A Torres
Company Secretary: K Mills

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conditions across the City by 2023. The Road Rehabilitation and Reconstruction Programme focuses on improving road condition from poor and very poor to good and very good condition. This process is informed by the VCA.

The VCA is informed by traffic, route class, climate, geometrics, pavement composition and existing conditions. The assessment is compliant with asset management legislation and is an effective tool which plays a critical role in ensuring the management of road infrastructure.

In comparison to international benchmarks, the maximum World Bank standard for very poor and poor roads requiring resurfacing is at 10% and structural rehabilitation at 5% of the total road network. Johannesburg exceeds the World Bank limits for surfacing and structural rehabilitation, respectively by 22%.

Surfaced roads have an average life span of 10 years and therefore require periodic maintenance. Should the road reach its lifespan in a shortened period, it is earmarked for resurfacing or reconstruction depending on the condition of the road. JRA's annual target across the total road network for surfacing is 10% and 5% for reconstruction. However, due to budgetary constraints only 1% is annually resurfaced and 0.02% is reconstructed. The cost per kilometre for reconstruction is R4 million and R1 million for surfacing.

Progress on Potholes Repairs:

On 28 March – Executive Mayor, Herman Mashaba waged war against potholes, pledging R88 million as part of a mayoral intervention to address the pothole backlog as a result of failing road surfaces owing to underinvestment in the City road network in prior years.

- Over the last financial year JRA received 34 817 requests to repair potholes, of which 34 551 repairs were carried out
- The remaining 266 unresolved requests were carried over to the current financial year and were addressed in July 2017.
- JRA maintenance teams across the seven regions have shown great improvement in addressing pothole backlogs with a total of 29496 potholes repairs carried out within 30 days at a resolution rate of 84.72%.
- The 2016/2017 financial year saw R22 125 781.37 invested in public safety to ensure repairs of potholes.
- Since July 2017 up until 17 October 2017, JRA spent R199 632.23 on the repairs of potholes across the city. A total of 5603 potholes repair request were received and 4750 had been repaired, with the outstanding 853 scheduled for repairs.

Follow JRA for the latest developments, journey planning tips, alternative routes, and traffic advisory via:

- Website: www.jra.org.za
- Twitter: @MyJra,
- Facebook: Johannesburg Roads Agency
- Email hotline@jra.org.za,
- JRA Find&Fix mobile app

- JRA A-Z Traffic Calming Guide, visit:
<http://www.jra.org.za/customer-service/traffic-calming-request>

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About the Johannesburg Roads Agency (JRA)

The JRA is a City-owned agency responsible for the maintenance, repair and development of Johannesburg's road network and storm water infrastructure, including bridges and culverts, traffic lights and signage. The organisation is committed to providing quality roads that are accessible, safe and liveable for our communities.

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Fact Sheet: Understanding JRA's Visual Conditions Assessment (VCA)

- The assessment is carried out every two years and recommendation based on the results are implemented for the following two years. Example: VCA undertaken in 2016, recommendations implemented in 2017 and 2018.
- The results of the assessment provide an accurate indication if the condition of the road is improving or deteriorating.
- Project future trends regarding the condition of the roads
- Determine the maintenance needs
- Informs the budgeting processes
- Informs prioritization of maintenance projects, repairs of potholes, roads resurfacing and rehabilitation

How Does JRA Earmark Roads for Upgrades?

The Visual Condition Index (VCI) program which stems from the VCA is used to prioritise roads across seven regions. However, JRA has a set budget for resurfacing wherein priority roads are earmarked based the visual assessment. Road rehabilitation repairs underlying road pavement layers and reconstruction replaces part, or all the road layers to strengthen the structural characteristics of the road. Roads that have not met the VCI criteria for upgrades will undergo routine maintenance, pothole repairs and deep patching where required, until roads are scheduled and budgeted for resurfacing.

Based on the VCA, roads are categorized as per the following index:

Category	Condition and Service	JRA Roads Network %	Roads KM	Operations Requirements
Very Good-Good Service	Road is still like new and no problems are expected	31%	3 845	Ad Hoc Maintenance
Good – Good service with isolated problems occasionally occurring	Asset is still in a condition that only requires routine maintenance	14%	1736	Ad Hoc Maintenance
Fair – Reasonable service with intermittent poor service	Some clear evident deterioration and would benefit from preventative maintenance and required renewal of isolated areas	23%	2 852	Bulk of these roads require resurfacing
Poor – Generally poor service with occasionally very poor service	Asset needs significant renewal or rehabilitation to improve structural integrity.	24%	2976	Road Reconstruction
Very Poor – Very poor service at most times	Asset in is imminent danger of structural failure and requires substantial renewal or upgrading with less than 10% end of useful life remaining.	8%	992	Road Reconstruction

Region A- G Roads Earmarked for Resurfacing

Region A Streets: R 24 303 607,51

Austin Road, Old Pretoria Main Road (W) (II), Church Street (W). Keurboom Crescent, Vodacom Boulevard (E). Strelitzia Avenue. Le Roux Avenue (E). New Road, Dale Road, Fourteenth Road, Riboville Road. Maxwell Drive (S), Le Roux Avenue (N), Le Roux Avenue (S), Lever Road (S), Plumbago Place, George Road, Pitzer Road, Epsom Avenue, Everfair Avenue, Sixteenth Road, New Road (W), Allan Road, Richards Road, Burger Road, Riboville Road, West Road, Kyalami Boulevard (W)Hawaii Avenue, Lever Road (S), New Road (W), Lever Road, Aitken Street, Gardens Road, Belvedere Road, Hampton Road, K109.01, Church Street (W), Old Pretoria Main Road (W), Hlakantswiki Street, Sixteenth Road, Dale Road, Peltier Drive, Walton Road, Richards

Road, Le Roux Avenue

Region B Streets: R26 996 300

Jan Smuts Avenue (S), Jan Smuts Avenue (N), Bram Fischer Drive (N), (R512) Malibongwe Drive (N), Main Reef Road (W), Oxford Road (N), William Nicol Drive (S), Beyers Naude Drive, William Nicol Drive (N)

Region C: R27 760 400

Elias Motsoaledi Road (S), Elias Motsoaledi Road, Main Reef Road (E), Main Reef Road (W), Elias Motsoaledi Road (N), Main Reef Road (W), Ontdekkers Road (E), Ontdekkers Road (W)

Region D: R25 056 705

Elias Motsoaledi Road (N), Elias Motsoaledi Road (S), Forbes Road, Mabasotho Street, Hlubi Street, Madobi Avenue, Mikosi Parklane Drive, Lemondo Street, Ntshe Street, Mohlangati Street, Mokhudi Street, Tsubaki Street, Leholosiane Street, Tsemeli Street, Zamalungisa Street, Monotshe Street, Legwale Street, Molebatsi Street, Hliso Street, Makhado Street, Bila Street, Siaga Street, Magoonomo Street, Eben Cuyler Drive, Elias Motsoaledi Road (S), Tjabalo Street, Mmila Drive, Station Street, Rahlao Street, Stele Link, Ndima Street, Mothlage Street, Mfishane Street, Taung Street, Jabulani Street, Mjokwane Street, Tandanini Street, Diokane Street, Majola Street, Morubitshi Street, Kadebe Street, Percy Khumalo Street, Zwane Street, Fundudzi Street, Musingadi Street, Magoonomo Street, Maleboga Street, Masheshane Street, Lubazi Street, Elias Motsoaledi Road (N), Crutse Street, Tsitsi Street, Fihlia Drive, Radebe Street, September Avenue, Legakabe Street, Letlatlagwe Street, Mokowe Street, Thaga Street, Crutse Street, Mvubu Street, Hlatywayo Street, Tlou Street, Mbata Street, Nkosi Street, Mabalane Street, Fundudzi Street, Mphephetho Street (S), Luaname Street, Musingadi Street, Luvuvhu Street, Elias Motsoaledi Road (N), St Pedro Street, Ad116-60763 Fish Avenue, San Marina Avenue, St Irene Road, Masivekela Street, Tsitsi Street, Mosaka Street, Moshoeshoe Street, Taukobong Street, White Stinkwood Street, Joe Slovo Boulevard, Mapango Street, Nditwani Street, Sandawane Street, Modimolle Street, Informal Settlement Road, Hibiscus Street, Drkk, Molefe Street, Nhlapo Street, Bekuzulu Avenue, Botani Street, Tsemeli Street, Ad116-60765, Ad113-41179, Sekhwiri Street, Vundla Link Hliso Street, Bereng Street, Xx26, Mmabolepu Street, Zwane Street, Masingafi Street, Buthelezi Drive, Mokha Street, Masuluke Street, Mashaba Street, Mhlaba Link, Rita Street, Jan De Necker Drive (E), Matlosana Street, Motaung Street, Red Show Street, Informal Settlement Road, Chalker Avenue, Matshaya Road, Radebe Street, Crutse Street, Mavi Street, Mlangeni Street (S), Tjabane Street, Majola Street, Calendula Road, St Marks Street, Motswiri Street, Leebarope Street, Maselela Street, Msimanga Link, Nape Avenue, Lesolang Street, Mooki Street (Bus Lane) (W), Mosaka Street, Mpati Link, Kubu Street, Umjumla Street, Matlomo Street, Sigasa Street

Region E: R25 339 005

Rivonia Road (S), Rivonia Road (N), Club Street, Fifth Street, Rivonia Road, Marlboro Drive (E), Ninth Road, Rivonia Road (S), Johannesburg Road, Arkwright Avenue (E), Pretoria Main Road (S), Ridge Street, Rivonia Road (S) (II), Vincent Tshabalala Road (E), Rivonia Road (N) (II), Rivonia Road (S) (SI), London Road (SI), Rivonia Road (S) (II)

Region F: R26 529 900

Main Reef Road, Main Reef Road (W), Heidelberg Road (N), Main Reef Road, Main Reef Road (E), Siemert Road, Houghton Drive (S), Jan Smuts Avenue (N), Jan Smuts Avenue (S), Houghton

Drive (N), Columbine Avenue (E), Sivewright Avenue

Region G: R 25 063 432,87

Arsenide Crescent, Mircoline Crescent, Amy Street, Albatross Street, Street 416 (Or01), Bonamite Crescent, Ae115-58835, Milnerton Street, Cryoute Crescent, Granaat Street, Lenasia Drive, Turtle Dove Avenue, Adonis Street, Duiker Street, Beril Street, Robin Avenue, Woodpecker Street, Garrick Avenue, Dornier Avenue, Mackenzie Place, Condor Avenue, Penguin Avenue, Sparrow Avenue, Tagore Street, Brozite Crescent, Tridymite Crescent, Duiker Street, Humming Bird Avenue, Humming Bird Avenue, Kingfisher Street, Khayam Crescent, Nightingale Avenue, Peacock Avenue, Opaal Street, Adonis Street, Protea Street, East Road, Allie Street, Jones Street, Eagle Avenue, Flamingo Street, Dove Crescent, First Avenue, Tumello Link, Poseidon Road, Duiker Street, Ametis Street, Helium Avenue, Himalaya Road, Mount Rainer Street, Road D, Ndaba Street, Silver Street, East Road, Peters Street, Serpentinte Crescent, Albatross Street, Lenasia Drive, Lenasia Drive (S), Impala Street, Drakensberg Road, Matterhorn Street, Marney Street, Nightingale Avenue, Mandrill Street, Fourth Avenue, Madume Street, Falcon Road, Mustard Street, Comet Road, Lagumd Street, Saint Joan Avenue, Quail Street, Agaat Street, Olive Avenue, Chelsea Crescent, Hibiskus Crescent, Brabant Avenue, Silwer Street

Road reconstruction and gravel roads upgrades to be included.