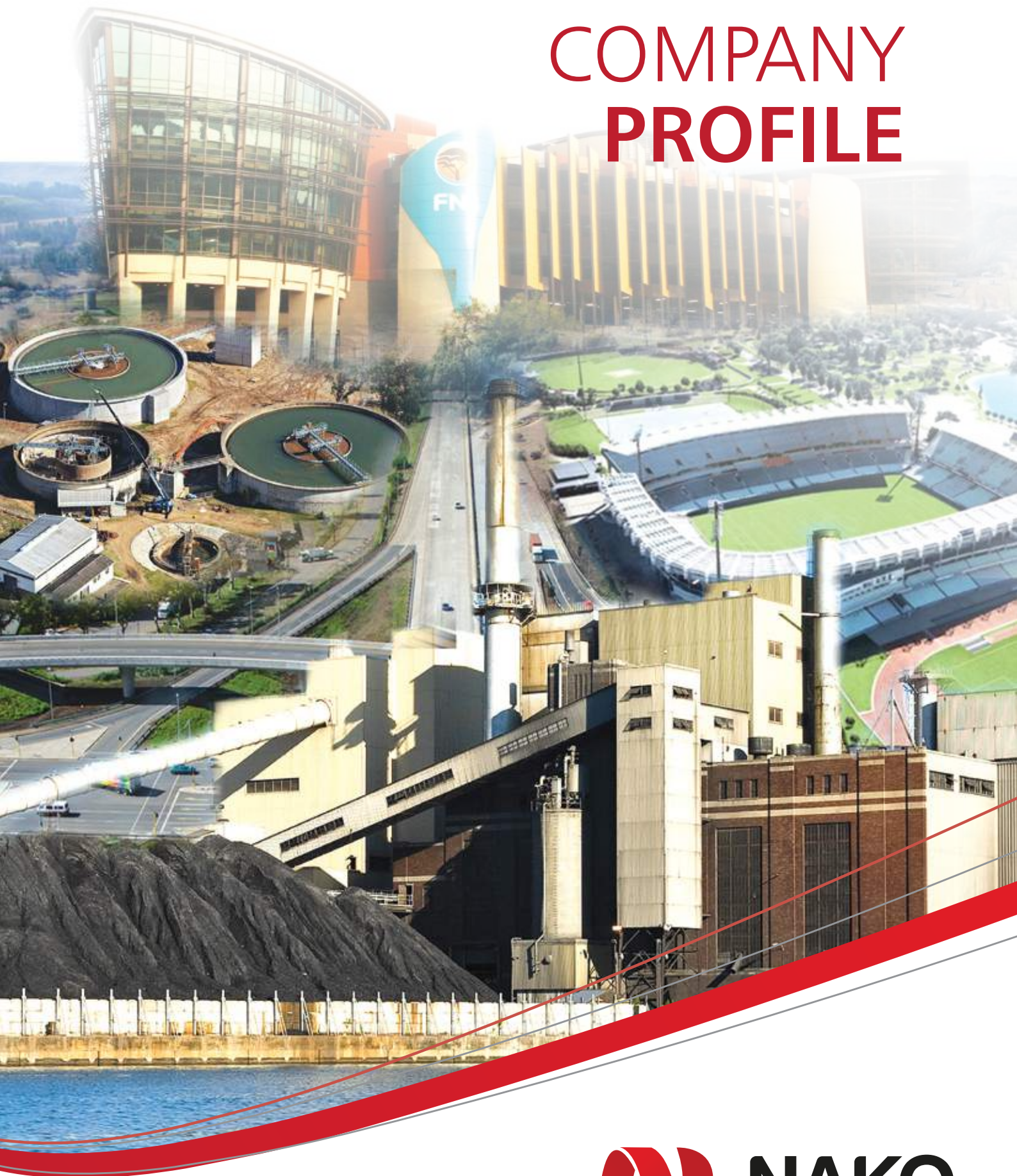


COMPANY PROFILE



NAKO
ILISO



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NAKO ILISO

ABOUT US

ILISO Consulting (Pty) Ltd now trading as NAKO ILISO is an African Consulting Engineering and Project Management firm that specialises in engineering, environmental and project management services.

Established in 1995, NAKO ILISO is widely recognised as one of the most professionally managed consulting engineering firms in Africa today, with a team of directors and senior executives who are experts in their chosen fields. Each member of this formidable team offers a range of combined experience in their areas of specialty. In addition, NAKO ILISO has over 250 highly competent technical and support staff, all working together to deliver sustainable high quality assets that not only meet but also exceed client expectations.

With an enviable portfolio of award-winning contracts, NAKO ILISO is fully established in South Africa (all the major centres), Namibia (Windhoek), Uganda (Kampala) and Zambia (Lusaka). Furthermore, it undertakes projects beyond these borders in collaboration with strategic partners located in various countries, including: Botswana, Nigeria, Lesotho and Mauritius.

With its strategically located offices and with the practical application of science and engineering principles that include the appropriate use of technology, NAKO ILISO continues to advance on its successes by building value for its clients through the successful planning, implementation and management of landmark and community based projects.

Thanks to a clear vision, a commitment to living its values and above all, its outstanding people, the reputation associated with the NAKO ILISO name is that of integrity, innovation, quality and service excellence.

VISION

To be a significant brand and great company, trusted by our industry and loved by our employees.

MISSION

To contribute to the development of Africa's infrastructure, in order to create a sustainable future.

COMPANY OVERVIEW



NAKO ILISO's core purpose and mission is to provide a full range of high quality, innovative, appropriate, cost effective and sustainable engineering solutions that satisfy the needs of its clients and the communities it serves. The company's directors and staff strive to use their expertise to make a meaningful contribution to the eradication of poverty and improve the quality of life for the people of the African continent.

This is NAKO ILISO's professional commitment, which is necessary for the realisation of the African Renaissance.

IN ORDER TO ACHIEVE ITS VISION AND MISSION, THE COMPANY:

- Provides superior technical quality and appropriate engineering solutions on all projects
- Offers an unparalleled treatment and service quality to all its clients, thereby developing sound customer relations and customer satisfaction
- Employs world-class quality, experienced and highly-motivated staff while continuously identifying and nurturing young, energetic and intelligent individuals to realise their full potential
- Creates opportunities for innovation and the advancement of its staff
- Implements sound business management principles and effective strategies to ensure long-term viability and growth of the company.

OWNERSHIP

Since its establishment, the founding members of NAKO ILISO have elected that shareholding within the company will reflect its philosophy. The NAKO ILISO philosophy is to be known as an independent professional practice, owned and managed entirely by engineers and technologists who demonstrate exceptional competence, professionalism, honesty and integrity. NAKO ILISO is 100% owned by engineers who work for the company on a full-time basis and more than 95% of its shareholding is held by black individuals.

MANAGEMENT

NAKO ILISO is managed by its board, comprising of four executive and three non-executive members with equal voting power. The Board is responsible for all statutory functions relating to the company, including strategy, goals, policies and overall leadership. The day-to-day management of the company's operations has been delegated to various executive directors, technical directors and executive managers.

EMPLOYMENT EQUITY

NAKO ILISO is committed to the development and advancement of each and every one of its employees, regardless of race, gender or disability. NAKO ILISO has created a work environment that is free of discrimination and where individuals may develop to their full potential.

MENTORSHIP & TRAINING

NAKO ILISO has always maintained that it is imperative for the company to achieve excellence in all of its business activities and remain at the forefront of technology and engineering ingenuity. To this end, ongoing coaching, mentoring and training forms an integral part of the NAKO ILISO Human Resources Development Programme. Within this Programme NAKO ILISO offers its employees vertical job enrichment, career planning and career advancement opportunities. In addition, NAKO ILISO offers Bursary Schemes to learners from disadvantaged communities, by providing significant career opportunities to learners and contributing to the future of engineering excellence in South Africa.

SKILLS TRANSFER

NAKO ILISO is committed to the transfer of skills to current and potential employees, which results in a contribution to the continued growth and development of the consulting engineering industry in Africa. NAKO ILISO is committed to a number of formal on-the-job training and mentorship programmes, which are facilitated by its highly experienced consulting engineers.

ENTERPRISE DEVELOPMENT

In its quest to create a better living environment for all Africans, NAKO ILISO remains committed to the development of SMMEs and SMEs by making use of their services as suppliers or to assist with projects whenever additional resources are required.

SOCIAL RESPONSIBILITY

NAKO ILISO facilitates a number of social responsibility projects that contribute to the communities in which it operates. This includes the company's annual participation in Nelson Mandela Day and its Annual Job Shadow Initiative, which is NAKO ILISO's way of giving back to the development of the Industry. School learners between grades 11 and 12, from disadvantaged schools, who excel in Maths and Science are given the opportunity to spend a "day in the life of an engineer". The objective of this initiative is to encourage learners to consider engineering as a career of choice. This initiative also assists NAKO ILISO in earmarking potential learners for its annual bursary scheme.



BOARD OF DIRECTORS



Fuzile Felix Fongoqa
EXECUTIVE CHAIRMAN
& CEO



Eldred Boonzaaier
COO



Thembi Jacobs



Moira Tlhagale



Loyiso Dotwana



Keabetswe Onuoka



Hans Hartung

MANAGING DIRECTORS (BUSINESS UNITS)



Colin Raman
TRANSPORTATION



Clint Koopman
STRUCTURES



Tony White
INFRASTRUCTURE



Tykes Govender
MANAGEMENT SERVICES

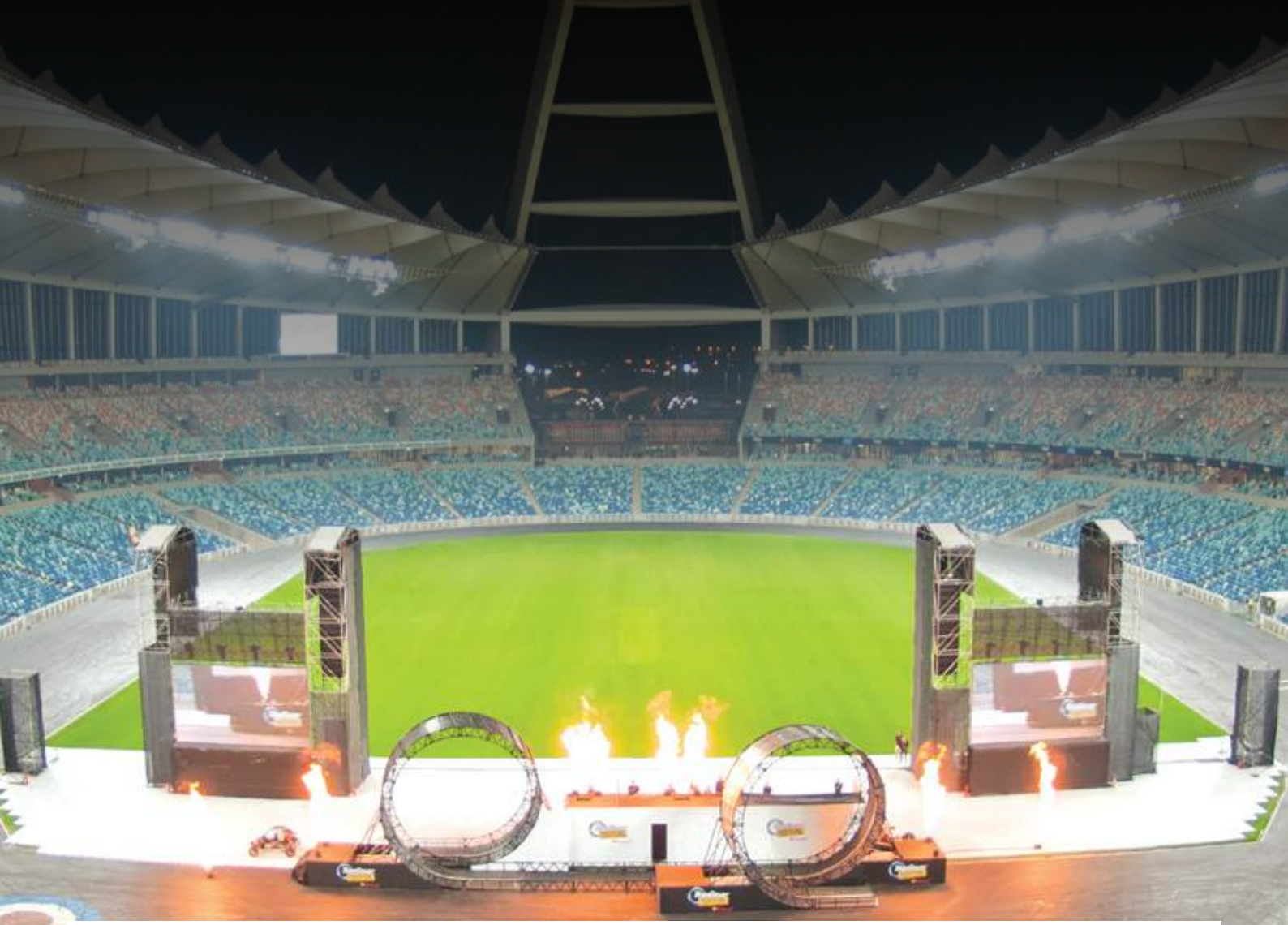


Mususeni Mumba
ZAMBIA



Sam Gongu
ZAMBIA

ACCOLADES OVERVIEW



TOPGEAR RACETRACK INSIDE MOSES MABHIDA STADIUM



NAKO ILISO is proud to have received industry recognition through the following accolades:

- 2018:**
 - Silver Medal at the Operational Excellence League in Malaysia for the Engen Refinery High-TAN Crude Enablement Project
 - CESA YP Imbizo – Recognition Award
- 2016:**
 - CESA YPF Job Shadow Initiative: 2nd Runner Up
- 2014:**
 - CESA YPF Job Shadow Initiative: Winner
- 2013:**
 - SAICE Branch (PMB) and National Awards: Winner – Structural Engineering Award in Technical Division Project: Improvements to Dr Chota Motala Road Interchange on National Route N3 (PMB)
 - CESA Aon Engineering Excellence Awards: Winner - Projects Greater than R250 million. Project: Improvements to Dr Chota Motala Road Interchange on National Route N3 (PMB)
 - CESA Aon Engineering Excellence Awards: Commendation - Projects Less than R50 million. Project: Top Gear Internal Race Track – Moses Mabhida Stadium
 - CESA Aon Engineering Excellence Awards: Winner – Young Engineer of the Year Award Mr Andreas Melusi Ndlovu (Technical Director: Transportation)
 - CESA YPF Job Shadow Initiative 2013: 1st Runner Up
- 2011:**
 - Fulton Awards (Building Project Category) Project: UNBUNTU Education Centre
 - IOC/IAKS Bronze Award and IPC/IAKS Distinction Award 2011 Award from the International Association of Sports and Leisure Facilities Project: Nelson Mandela Bay Stadium
 - SAISE Steel Awards Architectural Category Winner Project: Moses Mabhida Station, Project: Stock Road Station & Bus Terminus
- 2010:**
 - SAICE Special Award of Excellence as Defining Project of the Decade, Project: Moses Mabhida Stadium
- 2009:**
 - CESA Aon Engineering Excellence Awards: Winner - Projects greater than R100 million. Project: Wesbank Building in Fairlands, JHB
 - GIGSA Award for the Usutu River Emergency Works
- 2004:**
 - SAACE Glenrand M.I.B (now CESA Aon) Young Engineer of the Year Award Mr Clint Koopman (Former CEO)
 - SAACE Glenrand M.I.B (now CESA Aon) Young Company of the Year
 - IMPUMELELO nominated ILISO Consulting as South Africa's Top 300 Empowerment Companies
 - Concrete Manufacturers Association Premier Award (Concrete Block Paving category) Project: Stock Road, Station & Bus Terminus
 - Concrete Manufacturers Association National Award (Concrete Masonry Commercial category) Project: Look Out Hill
 - Concrete Manufacturers Association National Award (Concrete Block Paving Industrial Category)
- 2003:**
 - SAICE Branch Award for Technical Excellence in 2003 (Durban) Project: uShaka Marine World

SERVICE OFFERINGS



INFRASTRUCTURE

- Water and wastewater treatment/process engineering
- Bulk water transfer schemes
- Human settlement and urban planning
- Township services
- Rural development



MANAGEMENT SERVICES

- Project and programme management
- Government and institutional development & support
- Procurement management
- Construction management
- Sustainable development
- Feasibility studies
- Infrastructure asset management



MINING & INDUSTRIAL

- EPC (M) project execution
- Process and metallurgical
- Mechanical and piping
- Electrical & instrumentation
- Mining & geology
- Factories & warehouses
- Foundations, platforms and support structures for major mechanical equipment



STRUCTURES

- Shopping centres
- Office blocks
- Water retaining structures
- Bridges and culverts
- Stadiums
- Recreational facilities
- Residential and human settlements
- Business and industrial parks



TRANSPORTATION

- Transport and Urban Planning
- Mass Transit
- Roads and Highways
- Airport Terminals and Runways
- Rail Stations, Tracks and Signalling
- Ports & Harbours

PROJECT PORTFOLIO



INFRASTRUCTURE



KITWE PROJECT: UPGRADE OF WATER AND SANITATION INFRASTRUCTURE

Implementation of the upgrade of water and sanitation infrastructure for Nkana Water and Sewerage Company (NWSC) utilising the Engineer, Procure and Construct (EPC) contract. The project area included Kitwe, Kalulushi and Chambishi, with an estimated total population of around 700 000 people and covers an area of about 160 km² and a project value of \$150 million.

Services included pre- feasibility study, feasibility study, preliminary design and detailed design and entailed Raw Water abstraction and treatment of 250MI/day (4 no Zones); 10 No Water pumpstations; 105km of Transmission mains (ND300 – ND600); 84 MI New Treated water storage; 520 km Water distribution networks; 355km of Sewer collection networks; 75km Outfall sewer with 4No Sewer Pumpstations; A total of 6 Waste water Treatment works that varied in process requirements, up to 85 MI/day

CLIENT: NKANA WATER AND SEWERAGE COMPANY (NWSC)



PIPELINES: CHOBE/ZAMBEZI WATER TRANSFER SCHEME

Prefeasibility and Feasibility studies were done on the utilisation of the water resources of the Chobe/Zambezi river. Investigations included water demand computations, hydraulic design of associated infrastructure services (2100mm diameter pipeline, length 500km), pipe route selection, life cycle cost estimates and economic analysis.

CLIENT: DEPARTMENT OF WATER AFFAIRS (BOTSWANA)



WATER & WASTE WATER TREATMENT WORKS: NSEZI WATER TREATMENT WORKS UPGRADE

The project entailed the rehabilitation of existing works, construction of a new Inlet Tower, 48 diameter Clarifier, 4 Filters, 500kl reservoir, prechlorination room and Interconnecting Pipework to increase capacity from 150MI/day as well as the refurbishment and upgrade of the DAF plant.

CLIENT: MHLATHUZE WATER



TOWNSHIP SERVICES: THEEWATERSKLOOF

NAKO ILISO provided the professional services for the development of approximately 3000 housing units in the Theewaterskloof Municipality. The infrastructure provision ranged from Emergency Housing Programmes (EHP) to low and medium cost housing developments. The professional services were provided for the entire project life cycle applicable to water, sanitation, roads and storm water

CLIENT: THEEWATERSKLOOF MUNICIPALITY



RURAL DEVELOPMENT: KOMGA COMMONAGE SETTLEMENT PROJECT

This project included the design and construction of gravel roads and storm-water drainage infrastructure and water reticulation to 1140 erven via standpipes to RDP standards. Six SMME contractors were awarded learnership contracts and the necessary advice and guidance was provided by the engineer.

CLIENT: AMATHOLE DISTRICT MUNICIPALITY

DEPARTMENT OF FOREIGN AFFAIRS HEAD OFFICES IN PRETORIA



MANAGEMENT SERVICES



PROJECT MANAGEMENT: BOTSHABELO MEDICAL COMPLEX IN LESOTHO

The project entailed investigations, preliminary design and detailed design and site supervision for a new health care facility at the Botshabelo Site in Maseru, Lesotho. The design included excavations, RC raft foundations, RC slabs, RC columns, and structural steel roof trusses. It also included all parking and open spaced areas plus all civil services such as water, storm water and sewer services.

CLIENT: MIILENIUM CHALLENGE ACCOUNT – LESOTHO (MCA -L)



BUCKET ERADICATION PROGRAMME (BEP) IN EXCELSIOR

This included the project management of the removal of the bucket system and replacement to waterborne sewerage for 2 200 sites. Scope of the work included investigation, preparation and submission of technical reports along with the MIG registrations; the planning; design; tender documents; tender adjudication; contract administration and supervision of the above applications.

CLIENT: NELSON MANDELA METROPOLITAN MUNICIPALITY

MINING AND INDUSTRIAL



THE PP2 PROJECT

The Polypropylene Plant was part of the overall Turbo Project at Sasol. NAKO ILISO in Joint Venture with NAKO LBE worked on the project. The scope of NAKO ILISO's work was the structural design of one Industrial building and a loading facility. The Industrial building was a typical multi-bay warehouse facility and capable of accommodating heavy cranes. The warehouse consisted of a number of structural steel frames and it was clad with sheet metal. The crane structure and the loading facility were built using reinforced concrete.

CLIENT: SASOL



KUSILE POWER STATION

NAKO ILISO was appointed by Bateman Africa (now Tenova Mining and Minerals South Africa) as review consultants and construction managers for the bulk earthworks and stockpiling yards. The Civils/Structures Project Management for Kusile Power Station Material Handling Systems included the design reviews, specifications, enquiry document reviews and value engineering.

CLIENT: BATEMAN AFRICA (PTY) LTD FOR ESKOM

OR TAMBO INTERNATIONAL AIRPORT CENTRAL TERMINAL BUILDING



STRUCTURES



MOSES MABHIDA STATION, DURBAN

The design of the station had to ensure appropriate suitability for the site as well as integration with the precinct. The nature of the site posed challenges for accessibility, which were overcome. Structural design had to cater for the site constraints as well as the allowable occupation of the site. Logistical challenges included the procurement of different types of material used for the construction. Budget limitations also dictated the type and usage of materials as well as the final finishes.

CLIENT: PRASA



THE WEDGE SHOPPING CENTRE, SANDTON

The civil and structural engineering services in relation to the construction of a new three storey high structured parking and a complete refurbishment and reconfiguration of the existing shopping centre in Morningside, Sandton. The designs had to ensure the upkeep and protection of the existing complex structure while allowing uninterrupted operations of the anchor tenants. Whereas these challenges were magnificently overcome, they were accentuated by insufficient existing information and limited budget.

CLIENT: GOVERNMENT EMPLOYEES PENSION FUND (C/O PIC)



THE DAILY DISPATCH BUILDING, EAST LONDON

The Daily Dispatch Building involved the construction of a two (2) storey building (1600m²) and a floor area for ground and first floor combined, which was to be used as the Head Office of the Eastern Cape based daily newspaper. The office block had a double volume entrance area with unique architectural features. The building consisted of a reinforced concrete framed structure with the first floor comprising of flat slabs of varying spans. The front façade consisted of curved steel beams founded on the ground level and supported at the roof level and clad in glass. The roof consisted of part structural steel and RC concrete. The project was fast tracked and achieved completion in a relatively short period of time.

CLIENT: DAILY DISPATCH



FAIRLANDS OFFICE PARK: WESBANK HEADQUARTERS

This project involved the construction of the landmark headquarters for First National Bank and Wesbank. It consisted of a concrete frame structure with long span pre-stressed flat slabs and structural steel feature facades. The project was fast-tracked and had a short completion period for its size. The building was unique in shape with various angles, curves and volume changes with specific attention to Green building concepts.

CLIENT: GROWTHPOINT (FIRST RAND BANK)



BLOEMFONTEIN AIRPORT INTERCHANGE

The associated works included the ramps, dual carriageway access road to the airport, reroute of the provincial road and all the stormwater management systems. The twin overpass road bridges of over 82m long and more than 32m wide consist of a reinforced concrete drum deck supported on V-shaped piers and perched abutments and founded on 750mm diameter auger drilled piles.

CLIENT: SANRAL



GRAAFF-REINET RESERVOIR

The scope and nature of the work was for the construction of a 1.5ML reinforced concrete Reservoir in Graaf-Reinet.

CLIENT: WESTERN DISTRICT MUNICIPALITY



DR CHOTA MOTALA ROAD INTERCHANGE



TRANSPORTATION



BUS RAPID TRANSIT: LINE NO. 1 A FROM PRETORIA CBD TO KOPONONG (33 KM)

NAKO ILISO was appointed by the City of Tshwane PMU to undertake the planning, design and implementation of the BRT Trunk Line IA and IB, a length of approximately 18km from Akasia in the north to the Pretoria CBD in the south.

CLIENT: CITY OF TSHWANE



DR CHOTA MOTALA ROAD INTERCHANGE ON THE N3

NAKO ILISO was the lead consultant for the award winning Dr Chota Motala Interchange in Pietermaritzburg. The improvements were designed to relieve the dire congestion being experienced at this interchange. Improvements to the interchange included new and modified ramps and bridges; widening and rehabilitation of Dr Chota Motala Road (Asphalt Overlay) and the N3 Freeway (CRCP) as well as a traffic study and microsimulation and modeling (AIMSUN).

CLIENT: SANRAL



REHABILITATION OF R27 FROM CALVINIA (74KM)

Rehabilitation and widening of 70km of existing roadway through a process of in-situ recycling and stabilisation to the basecourse, followed by a Cape Seal surfacing.



KATOBA TO CHIRUNDU VIA CHIAWA ROAD, LUSAKA PROVINCE, ZAMBIA

Upgrading of 100km of national road from gravel to surfaced standards including the construction of major bridges and culverts. The road traverses rolling to mountainous terrain. The road also provides a critical transportation link between northern and southern countries within the east africa region.



2010 FIFA WORLD CUP™ STADIUMS

NAKO ILISO IS PROUD TO HAVE WORKED ON THE FOLLOWING STADIUMS FOR THE 2010 FIFA WORLD CUP™:



MOSES MABHIDA STADIUM, DURBAN

NAKO ILISO was the lead Civil Consulting company, that worked as part of a consortium to provide traffic impact assessments design, draughting and site monitoring.

CLIENT: ETHEKWINI MUNICIPALITY



MANGAUNG (BLOEMFONTEIN) STADIUM

NAKO ILISO was appointed by FIFA to manage the Overlay Infrastructure for FIFA Confederations Cup and FIFA World Cup Tournaments.

CLIENT: NÜSSLI INTERNATIONAL



GREEN POINT STADIUM, CAPE TOWN

NAKO ILISO was responsible for the structural design of all of the horizontal slab elements as well as the construction monitoring.

CLIENT: CITY OF CAPE TOWN



NELSON MANDELA BAY STADIUM, PORT ELIZABETH

NAKO ILISO was the lead partner in a Joint Venture responsible for the bulk earthworks design, the pile design, the structural design of the concrete bowl, as well as the design of the light weight roof structure. NAKO ILISO was also responsible for contract administration and construction monitoring.




CLIENT: NELSON MANDELA BAY METROPOLITAN

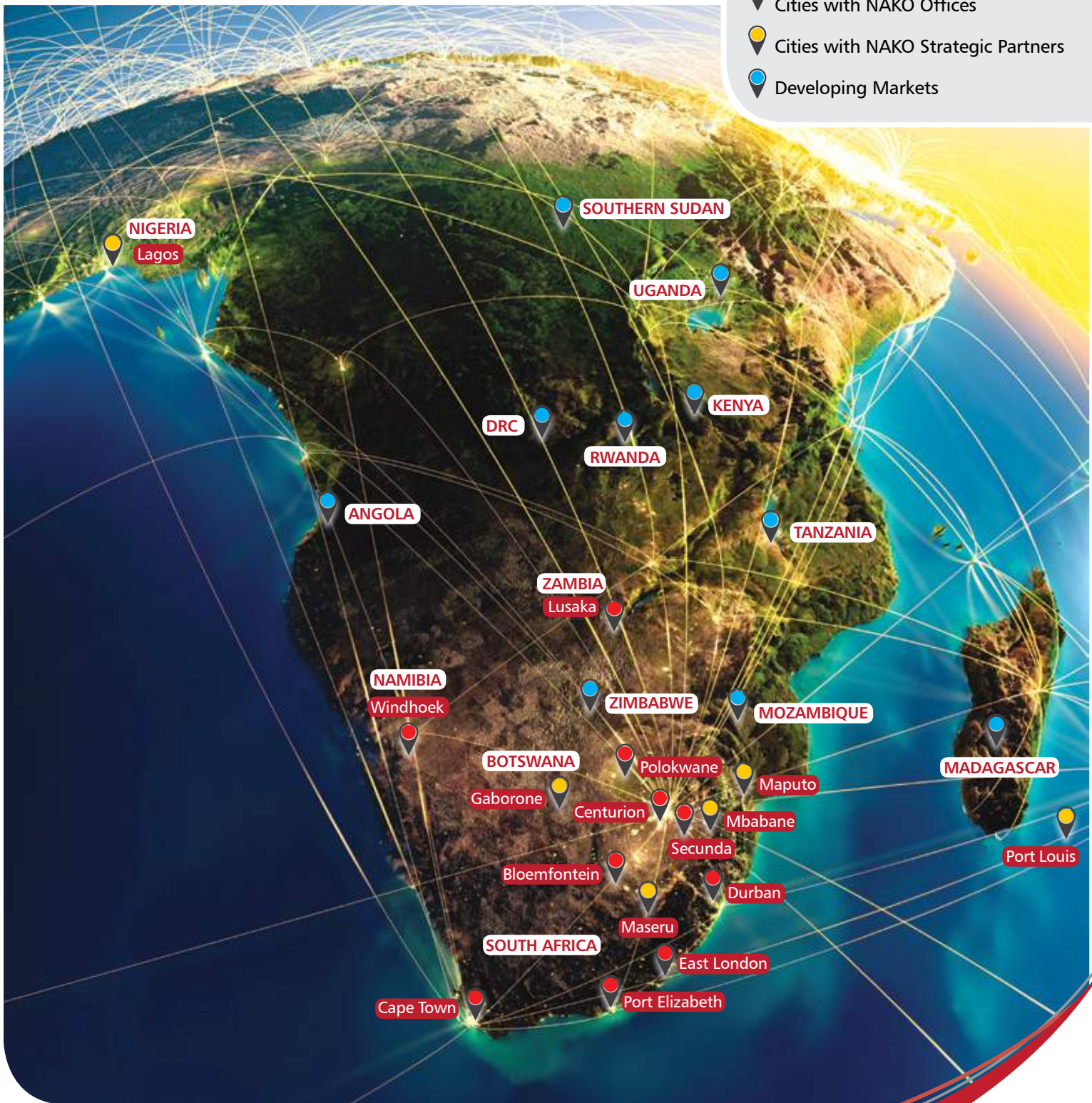
ASSOCIATION MEMBERSHIPS

NAKO ILISO IS PROUD TO BE AFFILIATED WITH THE FOLLOWING ORGANISATIONS:

- ACEZ: Association of Consulting Engineers of Zambia
- BEPEC: Built Environment Professions Export Council
- CESA: Consulting Engineers South Africa
- EIZ: Engineering Institution of Zambia
- EngRB: Engineering Registration Board (Zambia)
- FAEO: Federation of African Engineering Organisations
- FIDIC: The International Federation of Consulting Engineers (CESA is an affiliate member of FIDIC)
- GBCSA: Green Building Council of South Africa
- GNN-RMP: Global Network of Nano Technology and Its Application to Road Materials and Pavements (Zambia)
- IAIA: International Association for Impact Assessment
- IMESA: Institute of Municipal Engineering of Southern Africa
- NSE-TAD: Nigerian Society of Engineers – Taming African Deserts
- SABTACO: South African Black Technical Allied Careers Organisation
- SAICE: South African Institution of Civil Engineering
- SANCOLD: South African National Committee on Large Dams
- SAPOA: South African Property Owners Association
- BBCBE : Black Business Council in the Build Environment

REGIONAL AND INTERNATIONAL OFFICES

-  Cities with NAKO Offices
-  Cities with NAKO Strategic Partners
-  Developing Markets









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