

The background is a collage of three images: a multi-level highway interchange with cars and trucks, a road roller paving a new road surface, and an aerial view of a large parking lot under construction with yellow machinery and storage containers.

TRANSPORT

CAPABILITIES AND EXPERIENCE

Creating the **future of life** today



OUR PURPOSE IS TO
CREATE **THE FUTURE OF**
LIFE TODAY

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Water



Oil and Gas



Energy



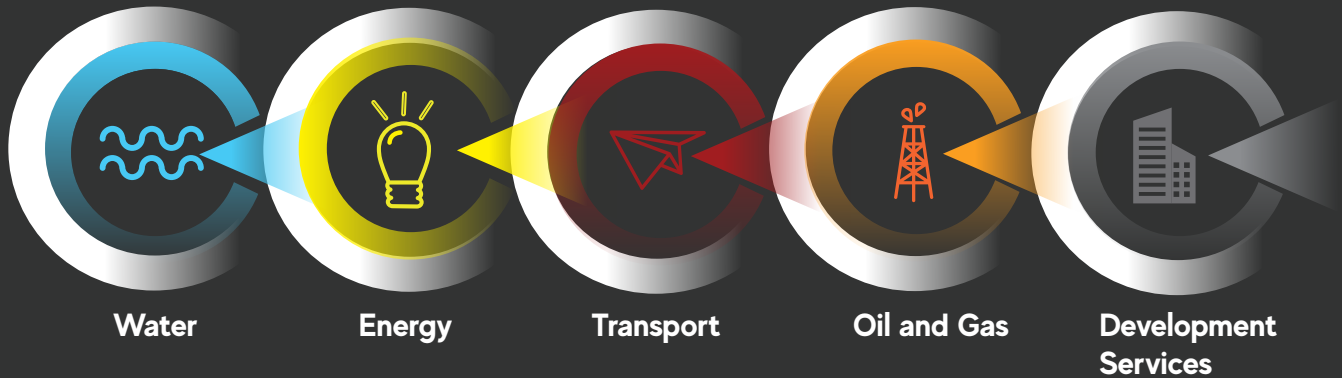
Transport



**Development
Services**

Market Segments

iX engineers is an innovative multi-disciplinary engineering firm that provides integrated infrastructure solutions across the African continent and Middle-East. The company has vast experience in **five market segments**. These are:



With operations in Africa and the Middle East, our passion is to design and advise on infrastructure development projects that enable the creation of the future of life. Simply put, we get excited at carving out business-driven solutions that directly and positively impact humanity.

Our DNA, which is distinctly African, is harnessed by the concept of Ubuntu – an African proverb meaning “I am because you are.” Ubuntu embraces the idea that humans cannot exist in isolation and that we depend on connections, community, and caring. We cannot be without each other.

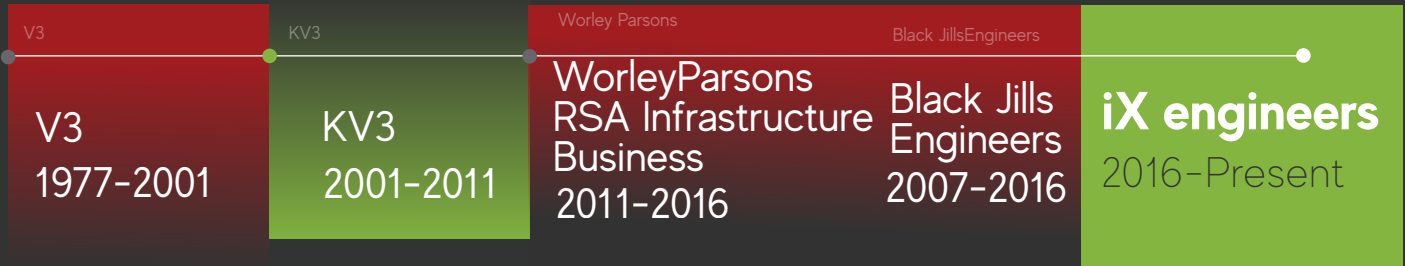


Infrastructure Excellence



ABOUT US

- » Established in 2016
- » Company Core 47 Years experience
- » Previously part of the WorleyParsons Infrastructure Business Group (KV3 & Black Jills Engineers)



47 Years Industry Experience	Level 1 BBBEE Contributor	100% Owned by Staff	43% Black Women Owned
56% Black Owned	+250 Staff	9 Offices	Technology Driven



2500 + projects completed worth over 100 Billion USD

Future-Proofing Infrastructure in Africa
& Middle East

iX engineers AFRICA PROJECT EXPERIENCE

*Projects engaged in while **iX engineers** staff was still the Public Infrastructure Business Unit of Worley (previous **WorleyParsons RSA Infrastructure Business**)

1. Libya

- ▶ Alkoons Housing Development Project
- ▶ Dahman Residential Development
- ▶ Surman Residential Development

2. Mauritania

- ▶ Mining Development Infrastructure

3. Guinea

- ▶ Roads – and Rail Logistics Options for Rio Tinto Iron Ore Mine

4. Ghana

- ▶ Low Volume Roads

5. Nigeria

- ▶ Master Plan

6. Cameroon

- ▶ Geotechnical Piling Work

7. DRC

- ▶ Hydropower Commissioning Testing
- ▶ Low Volume Roads

8. Namibia

- ▶ Walvis Bay Container Terminal
- ▶ Walvis Bay Oil Terminal

9. Zambia

- ▶ PPP Road T005 BFS
- ▶ North West Rail BFS

10. South Africa

- ▶ Various Projects as per Capability Statement
- ▶ Company Registered with 9 Offices in South Africa

11. Zimbabwe

- ▶ Hopwell – & Umki Mines Water Supply
- ▶ Master Plans for Mutare & Masvingo

12. Malawi

- ▶ Low volume roads

13. Mozambique

- ▶ Vale Rail Sections 6 & 7 PMC
- ▶ Vale Rail Maintenance Workshop at Nacala
- ▶ Afungi resettlement for Anadarko / Total

14. Tanzania

- ▶ RSA Department of Foreign Affairs Building
- ▶ Low volume roads

15. Rwanda

- ▶ Lake Kivu Gas – Symbion

16. Kenya

- ▶ Lake Turkana Wind Farm

17. Uganda

- ▶ Tullow Oil – Infrastructure Planning for Lake
- ▶ Albert Development
- ▶ Low volume roads

18. South Sudan

- ▶ Master Planning for 9 Towns – World Bank

19. Ethiopia

- ▶ Low Volume Roads

20. Egypt

- ▶ Environmental, Social & Health Impact
- ▶ Assessment for Refinery Expansion

21. Ghana

- ▶ New Gas Plant *

22. Nigeria

- ▶ New Building for Worley

23. Cameroon

- ▶ Mbalam Iron Ore – Feasibility (Infrastructure) *

24. Angola

- ▶ GE Oil * Gas Manufacturing Plant

25. Tanzania

- ▶ Dar es Salaam Mtwara Pipeline *

26. Kenya

- ▶ Kipeto Wind Farm *



PERSPECTIVE FROM THE CEO

We are obsessed with creating the future of life today

Ms Lebo Leshabane

Chief Executive Officer

The economies across Africa and the Middle East have been grappling with longstanding challenges, leading to a sharp rise in unemployment and an increasing number of jobless households. The business landscape in both regions is marked by significant hurdles, including soaring operational costs, power shortages, and a workforce that struggles with low morale. Recent global happiness reports have underscored this, ranking many African and Middle Eastern nations relatively low, revealing a deep dissatisfaction among their people.

At this critical juncture, the nations of Africa and the Middle East must balance the urgent need for economic and job growth with the responsibility to support their most vulnerable citizens. However, many countries face shrinking tax bases, widening inequalities, and persistent corruption, eroding public trust. The moral compass of these regions has been challenged, contributing to a pervasive sense of pessimism in certain areas.

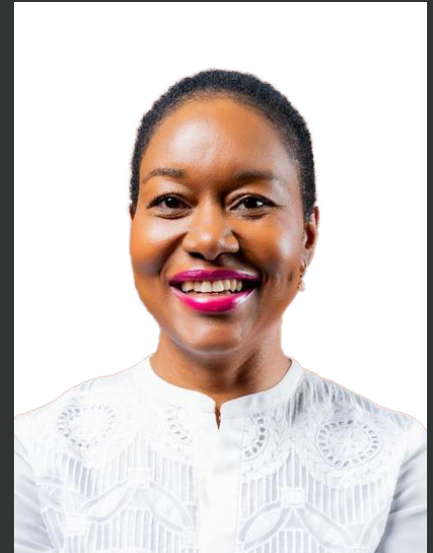
In such times, leadership from the private and public sectors becomes crucial. Leaders must take decisive action to inspire progress and motivate everyone to strive for excellence. The people of Africa and the Middle East are resilient, vibrant, and resourceful. For every challenge, there are uniquely African and Middle Eastern solutions waiting to be implemented.

At iX engineers, we remain optimistic and deeply committed to the future of Africa and the Middle East, the regions we proudly call home. We believe leaders who draw lessons from the past and focus on the future can lead these regions toward a brighter tomorrow. This belief is not mere rhetoric—it is woven into our company's identity and reflected in every aspect of our work. iX engineers is more than just a provider of engineering solutions; we are the embodiment of the future of infrastructure on the African continent and in the Middle East. Our commitment extends far beyond the present—we are passionate about the lessons today provides as they prepare us for tomorrow's innovations. This commitment is evidenced by our investments in local talent, partnerships with regional educational institutions, and a focus on knowledge and skills transfer to the communities we serve. Our vision for the future is centred on technology-driven solutions. Through our "hands-on" engineering approach, we deliver holistic infrastructure solutions that seamlessly blend traditional and non-traditional methods. Our goal is to add value to our customers, communities, businesses, and stakeholders across Africa and the Middle East through relentless innovation, sustainable practices, and a deep understanding of local needs and contexts.

We have strategically identified five key market segments to ensure our services are tailored to meet our customers' specific needs, operating environments, and long-term objectives. At iX engineers, we are committed to crafting infrastructure solutions that not only address today's challenges but also lay the foundation for a prosperous future across these regions.

Our commitment goes beyond our projects. We are actively engaged in corporate social responsibility initiatives that support education, environmental conservation, and community development in the regions we serve. We firmly believe that our success is inseparably linked to the well-being and progress of the communities we work within.

At iX engineers, we are not just operating in Africa and the Middle East; we are working for Africa and the Middle East. Our team, comprised of local and international experts, brings a wealth of global best practices, uniquely adapted to the challenges and opportunities of these regions. We are invested in the long-term growth and prosperity of Africa and the Middle East, and we are here to stay, grow, and help shape a brighter, more equitable future for all. This version emphasizes iX engineers' long-term investment in and commitment to Africa and the Middle East, highlighting their focus on sustainable development, community engagement, and regionally tailored solutions for enduring success.



OUR LEADERSHIP

“
Our leaders
embody the
characteristics
of
”



Humility and
Togetherness



Corporate
Governance



Wealth in
Knowledge



Human Capital and
Talent



Afrika Msimang

Chairperson of the Board

- o Master of Public Administration: University of Cape Town
- o Bachelor of Arts: Development Studies & Political Science: University of Johannesburg
- o Bachelor of Arts, Honours: Political Science: University of Johannesburg



Lebo Leshabane

Chief Executive Officer

- o BSc. Eng. Civil, Honours: Wits University
- o Business Management: UNISA
- o GDE Civil - Project Management, Property Law, Maintenance Engineering: Wits University
- o Innovation is Strategy - Harvard School of Business
- o Business Analytics: Wharton University of Pennsylvania
- o IOT - Massachusetts Institute of Technology



Jannie van der Mescht

Executive Director

- o BTech (Civil): Pretoria Technikon
- o National Higher Diploma (Civil): Pretoria Technikon
- o National Diploma (Civil): Pretoria Technikon



Ndinde Mashegana

Executive Director

- o BCom, Honours: RAU
- o BCom and Diploma in Education (UED): University of Venda
- o Certificate in International Import/Export Trade Promotion for RSA: Pacific Resource Exchange (Prex): Osaka, Japan
- o Certificate in Public Private Partnerships (PPP) Professional CP3P: APMG-International



Adrian Coetzee

Executive Director

- o BTech (Civil): Cape Peninsula University of Technology
- o National Diploma (Civil): Cape Peninsula University of Technology

VALUES



Driven



Futuristic



Solution
Orientated



Team
Player



SOCIO ECONOMIC DEVELOPMENT

At iX engineers, we are deeply committed to skills development and social upliftment of disadvantaged communities. We believe in giving back to our communities through targeted programs that create meaningful and lasting impact.



+ 500
School Books



+ 500
Math Sets



+ 500
School Shoes



+ 50,000.00
Building Supplies



+ 50,000.00
Food Supplies



+ 100,000.00
Early Childhood Development

Accreditations; Associations and Membership Development

 Institute of Safety Management	 South African Institute of Occupational Safety and Health	 Water Institute of Southern Africa
 Consulting Engineers South Africa	 International Organization for Standardization	 Institute of Municipal Engineering of Southern Africa
 Green Building Council of South Africa	 The South African Council for the Project and Construction Management Professions	 Association of Municipal Electricity Utilities
 International Council on Large Electric Systems	 South African Oil & Gas Alliance	

TRANSPORT

Revolutionising Transportation for a Connected African and Middle Eastern Future

At iX engineers, we are dedicated to transforming the transportation landscape across Africa and the Middle East through innovative engineering design. Our expertise spans roads, highways, rail systems, airports, and ports, supporting both regions' visions for integrated, efficient, and sustainable infrastructure. We envision transport solutions that go beyond connectivity, serving as catalysts for socio-economic transformation across these diverse territories. Our designs prioritise safety, efficiency, and sustainability, while focusing on integrating smart technologies for enhanced performance.

We address the unique challenges of connecting vast rural areas to urban centres and focus on creating cutting-edge transportation. Our solutions ensure environmental sustainability and social inclusivity, whether it's developing eco-friendly public transit in African metropolises or designing state-of-the-art, energy-efficient metro systems.

By supporting digital innovation in transportation, we contribute to economic growth and improved quality of life across Africa and the Middle East. At iX engineers, we're not just designing infrastructure; we're shaping the foundations of Africa and the Middle East's future. Our goal is to create transportation networks that empower communities, unlock economic potential, and pave the way for more connected, prosperous regions.



Our Services

Investigations / Studies

- ▼ Master Planning
- ▼ Hydrological Studies
- ▼ Feasibility Studies
- ▼ Desk Studies
 - » Route / Geology / Rainfall / Temperature / Traffic Studies
- ▼ Geotechnical Investigations
 - » Road Centerline
 - » Material sources: Borrow areas / Hard rock quarries
- ▼ Cutting / Slopes
 - » Stability
- ▼ Foundation conditions (Bridges)
- ▼ DCP

Surveys

- ▼ Topographical Surveys
 - » Air / Land / Land use / Social impact

Assessments

- ▼ General
 - » Environment Assessment
- ▼ Existing Roads
 - » Visual Pavement Condition / Deflection analysis
- ▼ New Roads
 - » Alignment

Designs

- ▼ Concept Designs, Preliminary-, Detail Design.
 - » Geometric
 - » Horizontal and vertical
- ▼ Drainage
 - » Cross drainage / Side drainage / River studies
- ▼ Pavement Structure Design
 - » Type of pavements / Axle load design / Layers / Materials utilization / Surfacing
- ▼ Road furniture
 - » Signs / Road markings / Signals
- ▼ Structures
 - » Hydrology / Bridges / Culverts

Documentation

- ▼ Design / Evaluation Reports
 - » Design / Evaluation Reports / Cost Estimations /
 - » Drawings / Specifications / Quantities / Legal Documents

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Site Supervision

- ▼ Contract Management
 - » Engineer in terms of FIDIC / Resident Engineer / Materials Technician / Surveyor
- ▼ Site Quality Control
 - » Site Testing (gravel, concrete) / Site Laboratory



Roads and Highways

iX engineers brings extensive expertise in roads and stormwater infrastructure, both locally and internationally. Our experience spans all phases of road projects, including national highways, provincial and municipal roads, and comprehensive site servicing solutions. We are committed to delivering innovative and sustainable transport infrastructure that meets diverse needs.

Roads and
highways

Haul roads

Major transport
corridors

Bridges

Culvert
structures

Road
Maintenance

Transport Master
Planning

Stormwater

Different
Transport
modes

Concessionaires

Project Reference

Upgrade of National Route N2 Murchison to Marburg Interchange



Customer
SANRAL

Location
**KwaZulu-Natal,
South Africa**

The project entailed the upgrading of National Route 2 Section 22 from Murchison (Km 18.6) to Marburg Interchange (Km 29.3). We increased safety features on the road, which included the reduction of accidents due to the added lanes and median barriers over certain sections, and adequate pedestrian accommodation using protected sidewalks.

Improvement of the N7 between Cederberg and Kransvleikloof



Customer
SANRAL

Location
**Cederberg, Western Cape,
South Africa**

The project entailed the improvement of National Route 7 Section 3 starting at Km 102.66 at the Cederberg T-Junction and ending at Kransvleikloof at approximately Km 120.88, between the towns of Citrusdal in the south and Clanwilliam in the north. The project's objective was to improve the existing road asset by re-aligning and widening the existing road to be adequate for approximately 20 years.

Project Reference

Rehabilitation of Camps Bay Drive



Customer
SANRAL

Location
**Camps Bay, Western Cape,
South Africa**

The project originally consisted of localised road widening to accommodate the proposed MyCiti buses. However, due to the substantial number and size of the proposed buses, a geometric analysis resulted in the entire portion of the road being widened by 1.4 m. The proposed pavement design involved a light rehabilitation with the widened area requiring full-depth construction. This was a flagship project for the City of Cape Town because Reclaimed Asphalt (RA) materials have not previously been used as high-quality road construction material.

Rail

At iX engineers our integrated design capability for rail infrastructure ensures seamless optimisation and coordination throughout the Concept, Definition, Detailed Design, and Construction Management stages.

We serve both public and private sectors, delivering tailored solutions for urban metro systems, long-haul intermodal networks, heavy haul minerals railways, and specialised rail transport for the industry and logistics providers. Our expertise drives efficiency and innovation, meeting the unique needs of every rail project.

Gautrain - Rapid Rail Link



Customer
Bombela Civils Joint Venture

Location
**Johannesburg, Gauteng,
South Africa**

iX engineers, in association with WS Atkins International, were appointed by the Bombela Civil Joint Venture (BCJV) for the preliminary and detailed design of the South-North Section.

As part of the ongoing National Transport Development and preparation for the 2010 International Soccer World Cup, a total of 55 km high-speed rail on the standard gauge was constructed, including both above and below-ground sections.

iX engineers provided structural engineering, traffic accommodation, mechanical, and electrical services related to the construction of temporary pedestrian and pipe bridges to facilitate the relocation of utilities and the design of the below-ground elements of the rail network, including the implementation of tunnel ventilation.

Project Reference

Nacala-A-Velha Workshops



Customer
CLN / Vale

Location
**Nacala-a-Velha, Nampula Province,
Mozambique**

Detail Design and construction management of the Railway Maintenance and Provisioning Yard for the Moatize to Nacala Corridor, located at Nacala-a-Velha in Mozambique. The maintenance facility included the marshalling yard lines, complete with crossovers, a building for locomotive fuel refilling and sand refill, a maintenance building for light locomotive maintenance, a wash bay, a paint facility, a wagon maintenance workshop, a wagon storage yard, effluent and sewerage treatment plant, power supply, Gas storage, Lubrication farm, wheel house facility, water supply, access road and bus terminal.

Kusile Power Station Northern Rail Access



Customer
Eskom

Location
**Mpumalanga Province, South
Africa**

iX engineers scope included the route determination and design of the new private siding to connect the new Kusile Power Station to the Transnet Freight Rail Lines. The 36 km new rail line included a viaduct bridge with a 350 m long deck, crossing the N4 toll road with bridges underneath both carriageways. The optimised design included earthworks and drainage, concrete structures, perway, signalling and overhead electrical traction equipment designs (OHTE).

Airports

At iX engineers we specialise in designing cutting-edge airport infrastructure that enhances efficiency and passenger experience. Our expertise spans all stages of airport development, from initial concept through detailed design and construction management.

We deliver innovative solutions that address both operational needs and future growth, ensuring world-class facilities that support global connectivity and smooth airport operations. Our commitment is to create infrastructure that not only meets current demands but also anticipates the future of air travel.



St Helena Airport



Customer

Basil Read/St Helena Government
DfID Department for International
Development, British Government

Location

The Island of St Helena (middle of
Atlantic Ocean, 1950 km west of Luanda,
Angola)

St Helena is one of the most geographically isolated islands in the world. It is located approximately 1950 km from the South-West Coast of Africa and 2900 km from South America.

The scope of work under Phase 1 of this greenfield project was the design, construction monitoring, and certification of a new airport, plus appurtenant works on Prosperous Bay Plain to support the operations of Code 4D aircraft, Boeing 737-800W, or similar aeroplanes for passenger transport.

Our work included the following deliverables (but was not limited to):

- ▶ Bulk earthworks
- ▶ PQC aircraft pavements with a geometric design to ICAO international standards and structural capacity to support Code 4D aircraft, complying with UK Ministry of Defence and FAA standards
- ▶ Civil/structural engineering works, aeronautical ground lighting, and navigational aids (Nav aids)
- ▶ Surface water drainage, foul water drainage systems including sewage treatment, and water supply including separate fire-fighting facilities
- ▶ 14.5 km Connector road from the airport across the island to Rupert's Bay, haul roads, and parking facilities
- ▶ Terminal building of 2500 m² incorporating cargo facilities, fire station, and ATC tower
- ▶ Bulk fuel storage facilities of 6 million litres at Rupert's Bay•
- ▶ Provision of communication systems, fencing, and security systems
- ▶ Environmental mitigation and certification of the aerodrome.

Our footprint

Locations in South Africa

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Office Manager

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Office Manager

Sibongiseni Swapi

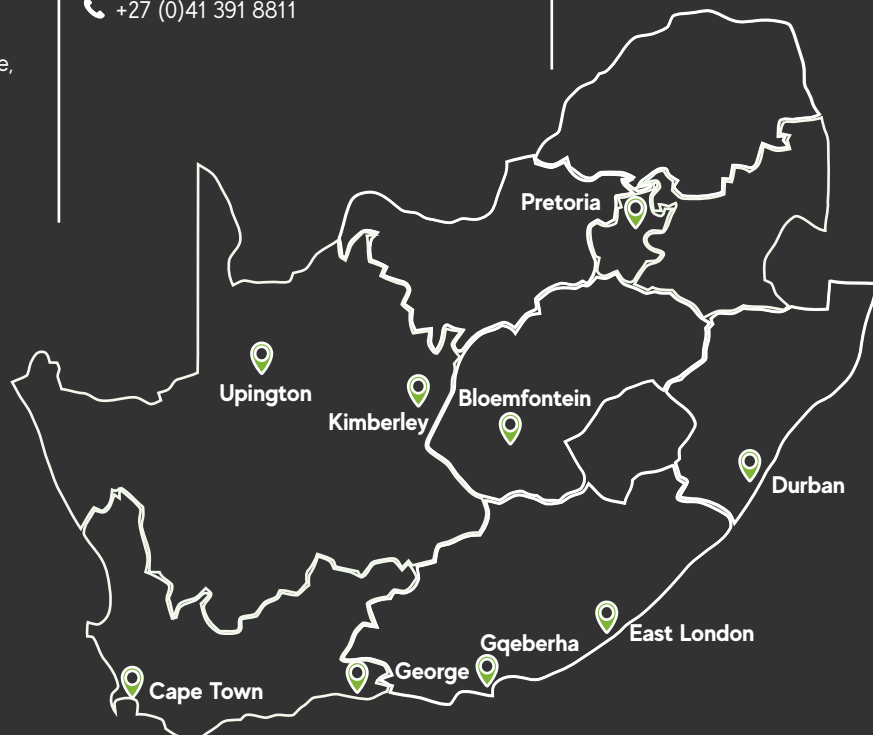
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WATER . ENERGY . TRANSPORT . OIL AND GAS . DEVELOPMENT SERVICES

ixengineers
Infrastructure Excellence



CREATING THE
FUTURE OF LIFE
TODAY