

GTM SOUTH AFRICA | GLOBAL DATA CENTERS

# Johannesburg 1 Data Center

Complete solutions for  
your network systems

Site brochure





## Powering the African Digital Economy

In a fully connected future, the potential and possibilities for Africa to build strong local businesses and participate extensively in the globally connected economy, is dependent on access to world-class data centres locally and internationally. Data centres are the key to unlock the potential of a data-driven, data-informed future.

Dimension Data and NTT are creating Africa's largest data centre platform with the goal of supporting the digital future. **A future that is fully connected enabling every person to actively participate in the economic and social future of their communities.**

Our commitment to meet your needs for world-class data centre services is evident in our new Johannesburg 1 Data Centre, currently under construction.

JOH1 is located in the Centralpoint Innovation District, close to the N1 highway and a 30-minute drive from OR Tambo International Airport, the region's main international airport.

JOH1 is a dedicated data centre new build and is being developed in two stages. The campus will offer IT space of about 3,000m<sup>2</sup> and a client IT load of 6MW after completion of phase 1. The grand opening is scheduled for Q1 2022.

Johannesburg is the biggest city in South Africa and the provincial capital. It's the economic and financial hub of South Africa and home to Africa's largest stock exchange, the JSE. The city hosts the South African headquarters of more than half of the world's top 20 global brands, including Barclays, Huawei, LG, L'Oréal, Sony, and Tata Group.

Johannesburg is an important travel and trade hub for the entire Southern Africa region, facilitating the interchange of goods, services, and ideas across the continent.

South Africa has one of the largest IT industries in Africa and Johannesburg is the leading city in this sector. Global technology players including Google, SAP, HP, IBM, and Oracle all have a base in the city. The Johannesburg Internet Exchange (JINX) was the first internet exchange point in Africa and the city is well covered by fibre-optic networks.

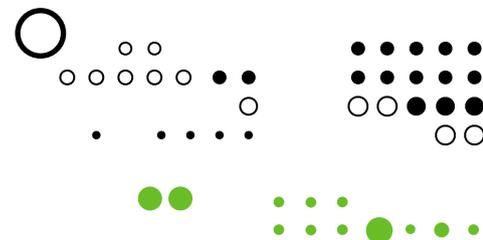
It also has a vibrant start-up scene, with initiatives in place such as JoziHub, which cultivates young entrepreneurship and innovation.



## A solution for every requirement

With a total of 6,000m<sup>2</sup> IT space and a maximum of 12MW once fully built out, Johannesburg 1 will offer complete solutions for housing your IT and network systems in a secure, high availability environment. We provide you with the best possible physical and technical infrastructure supported by N+1 UPS systems, N+1 generator backup, as well as highly redundant cooling systems. Our data centre will hold multiple certifications and will be connected to the major internet exchanges NAP Africa and JINX.

To validate hybrid cloud services and innovations faster and at lower cost, our **Technology Experience Labs** provide the perfect hosted ecosystem in a live data centre environment.



## Secure and flexible space built to your specifications

Your requirements are the most important aspect of our service offering. You choose, we deliver. Whether you select a building shell which you configure yourself, or we construct it according to your specifications, or even if you want to rent a single rack in our shared environment, we can accommodate your needs. We will also ensure the space is highly available through our years of engineering critical data centres while maintaining high levels of security to keep your infrastructure and data safe.

## Overview of our main product offerings:

<b>Fully-fitted</b>	Colocation Rack Carrier Rack
	Dedicated Cage
	Dedicated Suite
<b>Shell and core</b>	Area
<b>Supporting products and services</b>	Multi Service Interconnection Platform
	Cross Connect
	Remote Hands

## Infrastructure



### Data centre space

- 6,000m<sup>2</sup> of IT space
- flexible colocation deployments: single rack colocation, cages, suites, turnkey build to suites, shell and core solutions
- ancillary spaces (offices, storages and pre-installation rooms) available
- common areas such as meeting rooms and catering areas

### Cooling

- chilled water data suite cooling with air-cooled free-cooling chiller systems with a minimum of N+1 redundancy and supplemental adiabatic system for efficiency
- concurrently maintainable AHUs providing fresh air pressurisation and humidity control to data suites
- chilled water cooling to MMR and to electrical plant rooms (N+1)
- pressure relief and cold smoke extract system to all suppressed areas

### Power

- on-site substation delivering 20MVA of power
- maximum client IT load of 12MW

- average power density of 2.0kW/m<sup>2</sup>
- power supply at 20kV level
- all IT racks supplied with two separate UPS systems (A- and B-supply) with N+1 redundancy
- redundantly designed emergency power system with diesel generators N+1

### Fire protection

- smoke detection early warning system (VESDA) in the return air path
- pre-action dry-pipe multi-range nitrogen gas extinguishing system
- fire protection walls to a minimum of 60 minutes separation
- monitoring with automatic digital fire alarm system

### Security

- 24/7 Security Operations Centre and remote Service Control Centre
- redundant monitoring of all critical functions underpinned by standardised security processes and the multi level security zone principle, secures the rental area and the technical operation
- site perimeter fence to be 2,700mm high ClearVu or similar fence,

- with extended post to 3,000mm accommodating an electric fence
- card swipe entry/exit to all doors
- preventive risk assessment as well as continuous testing and training of operating personnel

### Connectivity

- carrier-neutral
- carrier mix from global tier 1 supplier to regional supplier
- connectivity to the major carrier hubs in South Africa
- pre-spliced dark fibre available on demand
- redundant Carrier-Meet-Me-Rooms
- redundant cabling infrastructure with diverse paths
- Pre-Cabling to support fast Cross Connect deployments
- high-performance internet access
- inter data centre connectivity between NTT data centres for geo-redundant solutions
- Multi Service Interconnection Platform to connect our clients to major cloud service providers such as Amazon Web Services, Microsoft Azure, and Google Cloud Platform

### Additional services

- consulting, general and implementation planning for development projects
- client implementation
- installation services
- Remote Hands services
- facility services
- audit support

### Global data centre network

- part of the NTT family of over 160 data centres around the world
- connectivity options to the global NTT network
- access and use of Technology Experience Labs with a worldwide partner network

### Service Level Agreement

- 99.999% power uptime availability
- climate control conditions in line with ASHRAE guidelines
- connectivity availability



### Technology Experience Lab

- **Technology spaces:** Globally available facilities in NTT data centres that bring together more than 140 technology partners to enable prospects and clients to test and validate, but also innovate on the latest technologies.
- **Industry communities:** Today, information technologies are a key enabler to many organisations. Our industry communities help these organisations to identify relevant technology providers and connect with helpful contacts.
- **Start-ups and venture capital:** Many times, start-ups are major drivers of disruption. Our start-up unit brings together start-ups, corporates and venture capitalists to enable and accelerate innovation.

### About the Global Data Centres Platform

Our data centres facilitate growth and enable innovation on a global scale. Our data centres provide state-of-the art, secure and interconnected solutions that extend across our global platform. Our global platform is one of the largest in the world. Our reach spans across 20 countries, with more than 160 data centres, each holding industry leading design and operational credentials, meaning you can trust us to meet your global needs. As a carrier-neutral operator, our connectivity-rich data centre network provides a scalable and resilient platform, providing you with the innovation and growth environment you seek, wherever you need it.

Our data centres power an organisation's ability to communicate, collaborate, and transact, and gives individuals the power to create, build, share, and consume.

#### Engine that powers:

Intelligent Infrastructure, workplaces, business applications, customer experiences and security

Visit us at our new website [datacenter.hello.global.ntt](https://datacenter.hello.global.ntt).



## Flexible connection to data centres and clouds: 20+ countries and 500,000m<sup>2</sup> server space



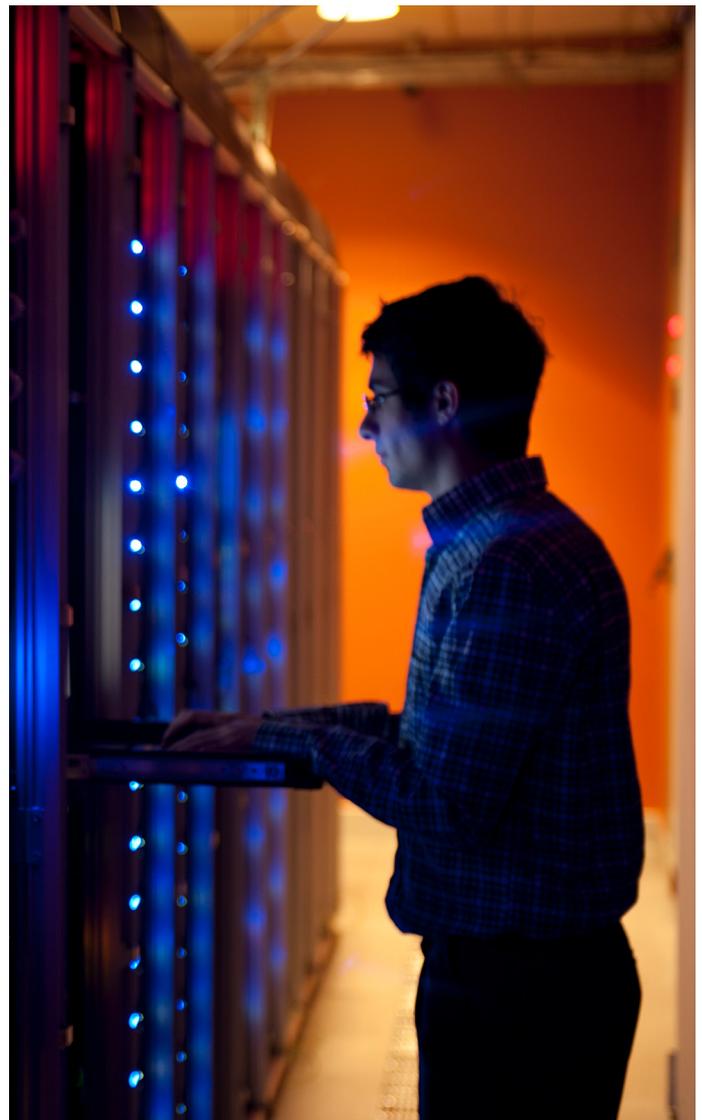
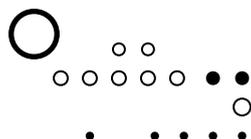
### Location



### Contact

**Johannesburg 1 Data Center**  
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5441-5442 Sterling Road  
Samrand  
Johannesburg  
South Africa

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## A trusted partner

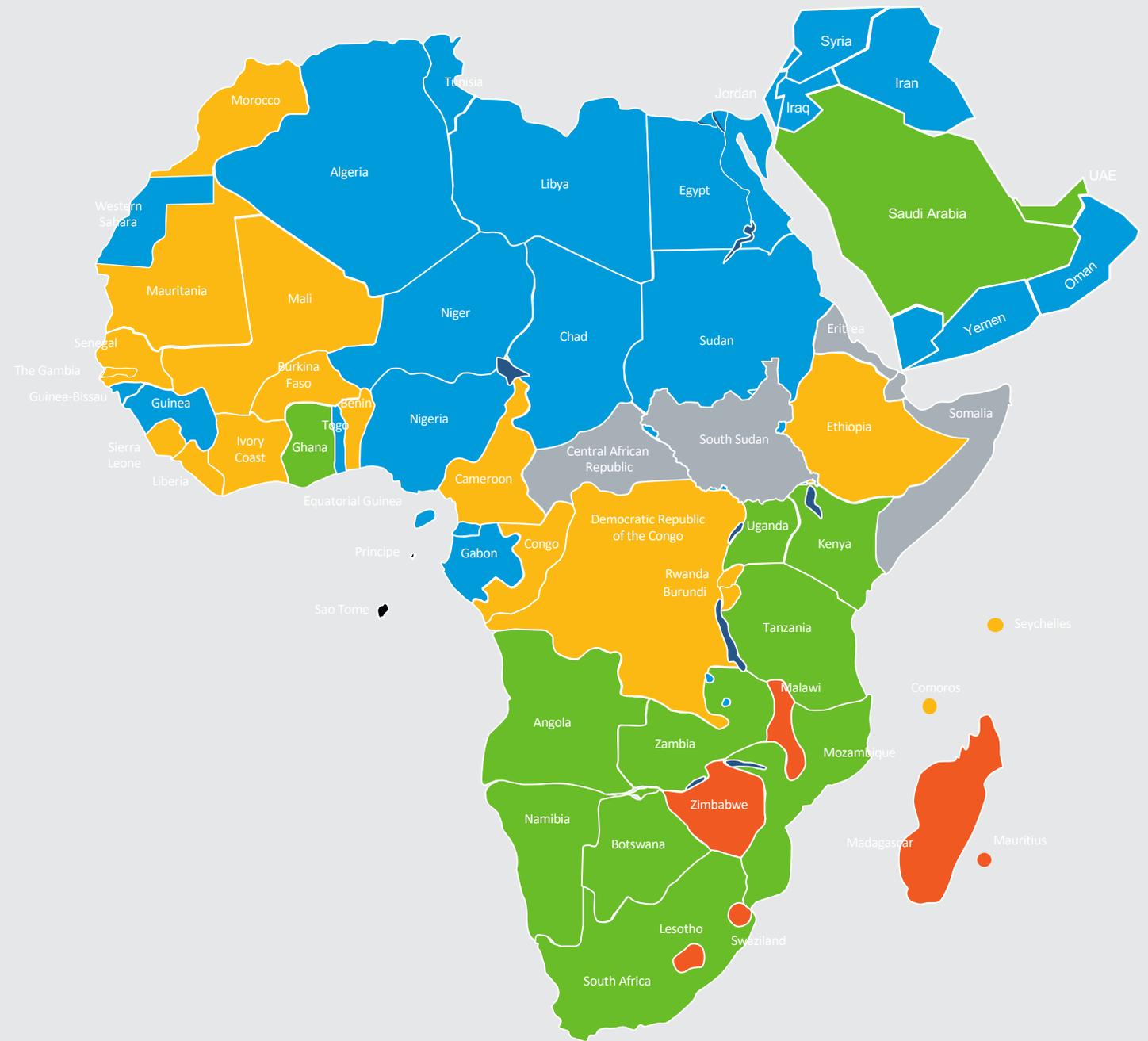
Powerful enabler of business growth **We'll help you do more**

# Africa's first globally connected Data Centre Platform

Opportunity to deliver and consume digital services at scale with on-demand infrastructure, leveraging hybrid multi-cloud architectures to power performance and availability, giving people the power to do more

 <p><b>3<sup>rd</sup> Largest Data Centre Platform in the world and in SSA</b></p> <p>A single global data centre ecosystem to meet the demands of the growing African digital economy - access to one of the most reliable, secure, scalable and available data centre platforms in the world</p> <ul style="list-style-type: none"> <li>• Access to 160+ data centres in 20+ countries/regions</li> <li>• Extensive footprint across Africa</li> <li>• More than 500,000m<sup>2</sup> of colocation space and expanding rapidly</li> <li>• Working with 85 of the Fortune 100</li> <li>• Tier III compliant</li> <li>• Tier 1 Global IP network spanning 160 countries</li> </ul>	 <p><b>Build and deliver high density data centres</b></p> <p>Support the next-generation IT infrastructure that powers high performance, thereby optimising the data centre footprint and lowering overall associated costs.</p> <ul style="list-style-type: none"> <li>• High density racks capable of up to 20kW per rack</li> <li>• Uniquely designed flexible and scalable solutions to meet current and future business requirements</li> <li>• Sustainability is at the forefront of our Data Centre design and engineering.</li> </ul>	 <p><b>Diverse, carrier-neutral solutions tailored to clients' data centre needs and digital goals</b></p> <p>Carrier and partner neutral Access to a large variety of Internet Exchanges and telecommunication network providers, including NTT's and Dimension Data's own Automated Infrastructure Services.</p> <ul style="list-style-type: none"> <li>• Direct Access to all major internet exchanges around the globe</li> <li>• Host to the Jinx, Dinx and Cinx internet exchanges and the ability to peer with NAP Africa</li> <li>• Global Network Fabric to provide full redundancy and uptime time availability</li> <li>• Carrier Neutral Facilities</li> </ul>	 <p><b>Increase agility and efficiencies with cloud transformation</b></p> <p>Access to multiple cloud provider. Deliver cloud transformation through our full stack services and best-of-breed data center and cloud infrastructure, underpinned by state-of-the-art security.</p> <ul style="list-style-type: none"> <li>• Software-defined infrastructure</li> <li>• Public cloud ecosystem</li> <li>• Private cloud</li> <li>• Cloud connectivity</li> <li>• Global data centres</li> </ul>
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- Dimension Data offices ■
- Internet Points of Presence (no Dimension Data office) ■
- System integration services through preferred partners (no Dimension Data office) ■
- Connectivity services through preferred partners (no Dimension Data office) ■
- No presence ■

dimension  
data   
Let's do more.

