









2008: WHY THE TIME WAS RIGHT

By 2008 the teleco market in South Africa had reached a pivotal point, resulting in the optimal environment for the establishment of a vendor neutral data centre operator:

BEFORE 2008

- Single fixed line operator
- Single operator licensed to build infrastructure
- High connectivity costs \$4000 per Mbps
- Large Telco's not peering
- Limited subsea capacity (2 cables: SAT3 & SAFE)
- Limited international content available locally

TODAY

- Over 350 registered ASNs
- ECNS license holders build out own infrastructure
- 2 established IXP operators
- Multiple high capacity subsea cables (EASSy, WACS, SEACOM, SAT3 & SAFE)
- 6/10 top content providers available locally
- 6/10 top CDNs available locally







TERACO **INVESTMENT TIMELINE**

SERIES A

The Series A round of fundraising closed in July 2008 with R47,5m

Funds used to build & fit-out Cape Town DC1 – 500sqm, 1MVA power

SERIES C

Closed June 2011 with total of R158m

Capital was used to expand JB1 (Phase 2 & 3) as well as build Durban DB1 – 700sqm, 1,6MVA

R1,2B DEBT FUNDING

Debt facility is increased spurred by strong growth

Funds used to build and fit-out JB1 West – 4800sqm, 14MVA and JB2 Bredell – 5000sqm, 24MVA

2008

2009

2011

2015

2017

2018

SERIES B

Series B closed in July 2009 with R50m raised

Funds for purchase of land % construction of Isando, JB1 (Phase 1) – 1300sqm, 2MVA

R400M

An initial debt facility of R400m is established

Funds used for further fit-outs in CT1 – 1100sqm, 2MVA, JB1 – 3000sqm, 4.5MVA

R1,8B GROWTH FUND

A further increase in the debt fund to R1,8b

Teraco announces the next build JB3 Isando Campus (Phase 1) – 5000sqm, 16MVA

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GROWTH TIMELINES

WHITE SPACE (SQM)



NUMBER OF CLIENTS



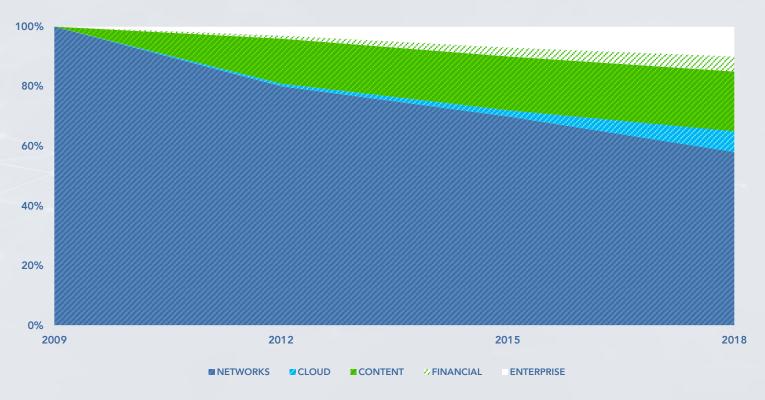
AVAILABLE POWER (MVA)



INTERCONNECTS



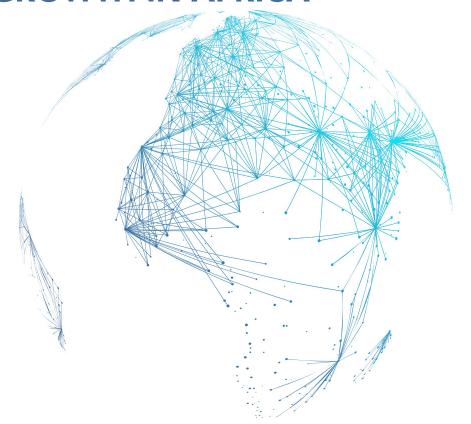
THE MARKET VERTICALS ECOSYSTEMS





TRENDS DRIVING DC GROWTH IN AFRICA

- Content is moving closer to the edge (user)
- Accelerated migration to the Cloud
 - Infrastructure capex
 - Lack of resources (skills)
 - On premise DC cost escalation
 - Access to connectivity
 - Lower connectivity (capacity) costs
- The Cloud is local
 - Improved security
 - Data sovereignty
 - Lower latencies
 - **Emerging market**
- Access to multiple networks
- Access to peering (NAPAfrica, JINX, etc.)
- Enterprise is becoming digital
 - eCommerce
 - Online everything
 - On premise DC cost escalation
 - Access to connectivity
 - Lower connectivity (capacity) costs





2018: THE ADVENT OF PUBLIC CLOUD INFRASTRUCTURE

WHY ARE THEY HERE?





















RANK '16	RANK '15	COMPANY	INDUSTRY	COUNTRY
1	1	Sonatrach	Petroleum	Algeria
2	2	Sonangol	Petroleum	Angola
3	4	The Bidvest Group	Diversified	South Africa
4	3	Sasol	Chemicals	South Africa
5	5	Eskom	Utilities	South Africa
6	6	MTN Group	ICT/Telecoms	South Africa
7	7	Steinhoff International Holdings	Wood and paper	South Africa
8	8	ShopRite	Holdings Retail	South Africa
9	10	BidCorp (ex Bidvest Foods)	Agribusiness	South Africa
10	9	Imperial Holdings	Diversified	South Africa

TOP 25 AFRICAN RETAILERS, FY13

RETAIL REVENUE RANK	NAME OF COMPANY	HEADQUARTER COUNTRY	CORE RETAIL SEGMENT 2013	REVENUE (US\$ MILLION)	REVENUE GROWTH (Y-O-Y)	FY11-FY13 REVENUE CAGR
1	Shoprite Holdings Ltd	South Africa	Food and beverage	9 852,50	10,5%	11,1%
2	Massmart Holdings Ltd	South Africa	General merchandise	7 529,90	9,8%	8,7%
3	Pick n Pay Stores Ltd	South Africa	Food and beverage	6 343,30	65,0%	6,8%
4	The SPAR Group Ltd	South Africa	Food and beverage	5 166,70	10,7%	11,5%
5	Woolworths Holdings Ltd	South Africa	Clothing and accessories	3 827,80	12,7%	17,8%
6	The Foschini Group Ltd	South Africa	Clothing and accessories	1 594,10	13,6%	11,7%
7	Mr Price Group Ltd	South Africa	Clothing and accessories	1 557,70	15,0%	14,1%
8	Clicks Group Ltd	South Africa	Health and personal care	1 349,70	7,9%	6,7%
9	JD Group Ltd (Steinhoff International Holdings Limited)	South Africa	Furniture and home furnishings	1 141,30	-5,8%	2,5%
10	Truworths International Ltd	South Africa	Clothing and accessories	1 008,20	7,1%	8,8%



WHY **SOUTH AFRICA**



Large Addressable Market



Internet Freedom



Broadband Penetration



Stable Power Infrastructure



Favourable Regulatory Environment



Stable Political Climate



Stable Economic Climate



Geographic Location (Furthest Point South from European Hub)





SOUTH AFRICAN NATIONAL FIBRE ROUTES





GAUTENG VERSUS WESTERN CAPE ECONOMIC FACTORS

GAUTENG

Population: 12 272 263 Households: 3 909 022 Employment: 32% Contrib. GDP: 34%

WESTERN CAPE

Population: 5 822 634 Households: 1 634 000 Employment: 15% Contrib. GDP: 14%



COMBINED LATENCY SENSITIVE REGIONAL SPLITS

WESTERN CAPE

Population: 5,8mil Employment: 15% Contrib. GDP: 14%

EASTERN CAPE

Population: 6,9mil Employment: 9% Contrib. GDP: 8%

NORTHERN CAPE

Population: 1,2mil Employment: 2% Contrib. GDP: 2%

COMBINED REGION

Population: 13,9mil Employment: 26% Contrib. GDP: 24%



GAUTENG

Population: 12,2mil Employment: 32% Contrib. GDP: 34%

FREE STATE

Population: 2,8mil Employment: 5% Contrib. GDP: 5%

KWA-ZULU NATAL

Population: 10,9mil Employment: 20% Contrib. GDP: 16%

LIMPOPO

Population: 5,7mil Employment: 4% Contrib. GDP: 7%

MPUMALANGA

Population: 4,3mil Employment: 6% Contrib. GDP: 7%

NORTH WEST

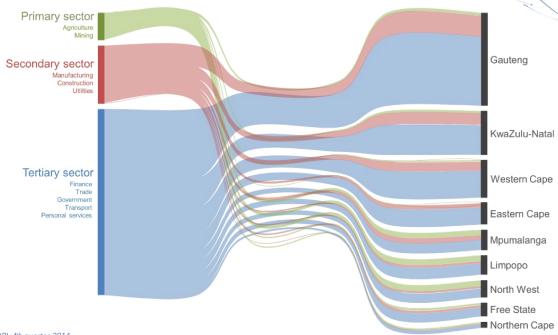
Population: 3,7mil Employment: 7% Contrib. GDP: 7%

COMBINED REGION

Population: 39,6mil Employment: 74% Contrib. GDP: 76%

CONTRIBUTION TO ECONOMIC **SECTORS**

Breakdown of the South African economy by province, 2015



Source: Gross domestic product (GDP), 4th quarter 2014

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WORLD'S 300 LARGEST METRO AREAS

BY GDP (US\$)

METRO	RANKING IN TOP 300	EST. GDP (US\$ BILLION)
Johannesburg	148	82.9
East Rand (Ekurhuleni)	180	55.3
Pretoria (Tshwane)	190	49.9
Gauteng City Region	62	188.1
Durban Metro	192	48.9
(proximity to Gauteng)		
Cape Town Metro	177	58.9





KEY INDICATORS FOR GAUTENG

Table: Key indicators for the Gauteng City-Region and global peer metro areas

RANK	POPULATION	NOMINAL GDP	EMPLOYMENT	GDP PER CAPITA	GDP PER WORKER
1		Mexico City	Mexico City		
2					Istanbul
3	Gauteng City-Region			Istanbul	Santiago
4			Istanbul	Santiago	Shenzhen
5		Gauteng City-Region	Gauteng City-Region	Mexico City	Mexico City
6	Santiago	Santiago	Santiago		Rio de Janeiro
7	Cape Town			Gauteng City-Region	Gauteng City-Region
8		Cape Town	Cape Town	Cape Town	Cape Town







GLOBAL 2000 CORPORATE **HQ LOCATION**

Table: Global 2000 corporate headquarters; 2012

CITY	COUNTRY	NUMBER OF HQ	REVENUE (USD BILLION)	PROFITS (USD BILLION)	ASSETS (USD BILLION)
Johannesburg	South Africa	14	116	18	410
Shenzhen	China	12	129	14	1,051
Mexico City	Mexico	12	106	15	168
Santiago	Chile	9	66	5	153
Istanbul	Turkey	7	89	8	411
Rio de Janeiro	Brazil	7	246	43	598
Cape Town	South Africa	6	32	4	114
Warsaw	Poland	4	27	4	99
Tshwane	South Africa	1	2	1	5





REGIONAL INTERCONNECT GROWTH



THE NEXT 10 YEARS IN AFRICA

1

Vendor neutral DCs will proliferate across the major tech hubs (SA, Nigeria, Kenya)

2

Global tech brands will adopt a local approach to these markets

(3)

5G accelerates connecting the continent

4

Africa's informal economy becomes digital

(5)

Cloud becomes mainstream



Corporate/enterprise investment in African technology increases







https://www.youtube.com/watch?time_continue=6&v=Pdc



