

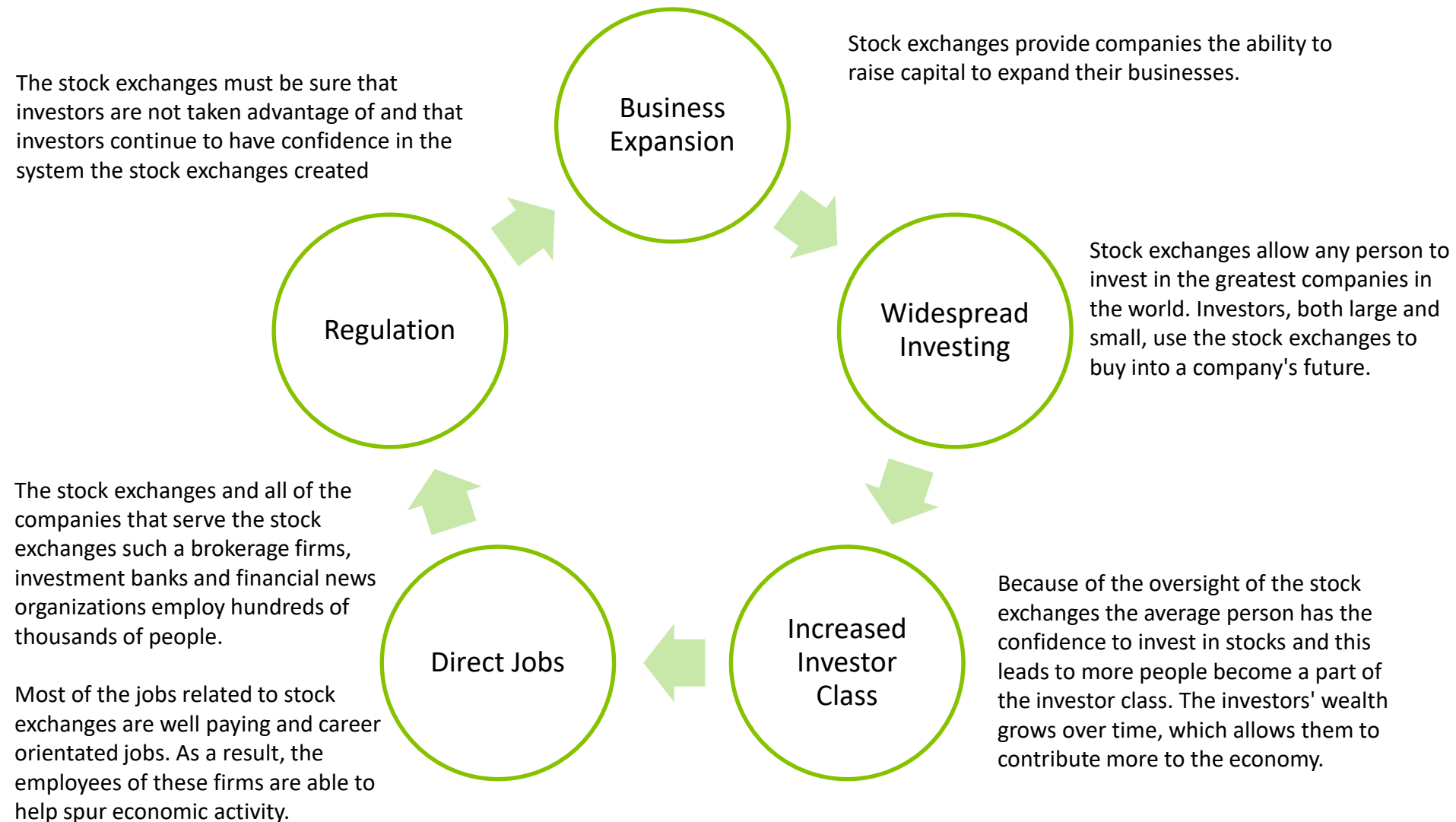


JSE

Johannesburg Stock Exchange



The Role of the JSE in the Economy



JSE Structure: What we do



Market Stats – July 2019

Equity Market

	Today	PrevDay	%ChgDaily	YTD - 2019	YTD - 2018	%ChgYoY	DailyAve - 2019	DailyAve - 2018
Value (Rm)	16 009	13 444	19.07%	2 547 650	3 041 320	-16.23%	19 749	23 395
Volume (Million)	220	185	18.87%	39 219	46 863	-16.31%	304	360
Deals	290 524	243 607	19.26%	36 968 625	34 938 988	5.81%	286 578	268 761
Overall JSE Liquidity%	28.95	23.66	22.34%	35.56	30.35	-9.61%		
Market Cap(Rtrillion)	16.20	16.38	-1.11%	16.20	14.67	10.37%		

Derivatives Markets

Commodities Derivatives Market

	Today	PrevDay	%ChgDaily	YTD - 2019	YTD - 2018	%ChgYoY	DailyAve - 2019	DailyAve - 2018
Value (Rm)	3 770	3 521	7.07%	419 710	321 258	30.65%	3 254	2 471
Contracts	14 378	14 414	-0.25%	1 850 208	1 690 148	9.47%	14 343	13 001
Deals	1 776	1 433	23.94%	230 878	211 295	9.27%	1 790	1 625
Open Interest (ContractsTraded)	141 302	140 192	0.79%	141 302	159 686	-11.51%		

Equity Derivatives Market

	Today	PrevDay	%ChgDaily	YTD - 2019	YTD - 2018	%ChgYoY	DailyAve - 2019	DailyAve - 2018
Value (Rm)	17 077	12 603	35.50%	3 054 692	3 179 778	-3.93%	23 680	24 460
Contracts	75 536	164 703	-54.14%	48 114 790	72 002 436	-33.18%	372 983	553 865
Deals	14 972	12 967	15.46%	1 810 025	1 740 814	3.98%	14 031	13 391
Open Interest (ContractsTraded)	9 534 721	9 514 243	0.22%	9 534 721	8 591 401	10.98%		

Currency Derivatives Market

	Today	PrevDay	%ChgDaily	YTD - 2019	YTD - 2018	%ChgYoY	DailyAve - 2019	DailyAve - 2018
Contracts	40 094	26 267	52.64%	41 474 254	35 297 655	17.50%	321 506	271 520
Deals	75	67	11.94%	25 194	26 503	-4.94%	195	204
Open Interest (ContractsTraded)	8 878 299	8 876 504	0.02%	8 878 299	4 776 044	85.89%		

Interest Rate Derivatives Market

	Today	PrevDay	%ChgDaily	YTD - 2019	YTD - 2018	%ChgYoY	DailyAve - 2019	DailyAve - 2018
Value (Rm)	2 025	3 187	-36.46%	601 639	793 689	-24.20%	4 664	6 105
Contracts	22 619	29 092	-22.25%	5 528 235	7 191 494	-23.13%	42 855	55 319
Deals	64	62	3.23%	6 691	7 843	-14.69%	52	60
Open Interest (ContractsTraded)	979 034	963 651	1.60%	979 034	1 082 773	-9.58%		

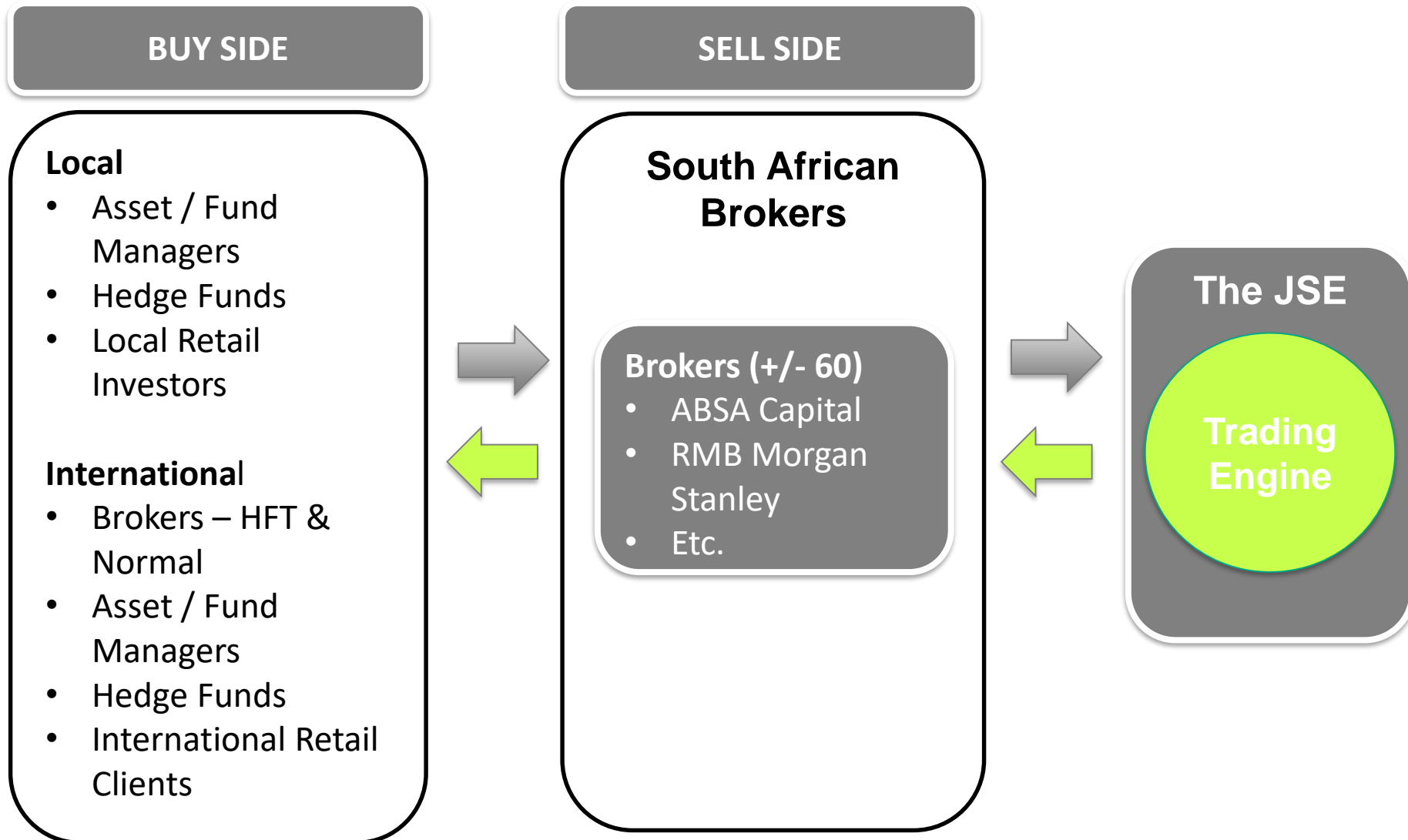


The JSE Equity Market as a Trading Destination

Equity Market Overview

- By far the **most established** market of the JSE
- Fully **electronic central order book** since 1996
- Use of **Millennium IT system** since 2 July 2012 with 100% uptime recorded
 - Orders per day = 8.3 million (peak 10.9m)
 - Central Order Book trades make up 94% of value traded (2015 = 92%)
- Highly liquid market with around **55 active members**
 - Several very big buy-side clients
 - Algo/low latency trading in the market via colocation
- Despite slow economic growth, above inflation returns

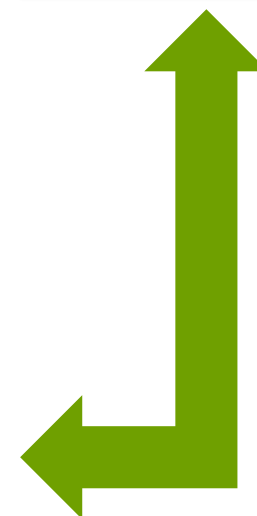
Clients and the JSE



End-to-end Process

JSΞ

Stockbroker



strate
South Africa's Central Securities Depository

Buyer and Seller

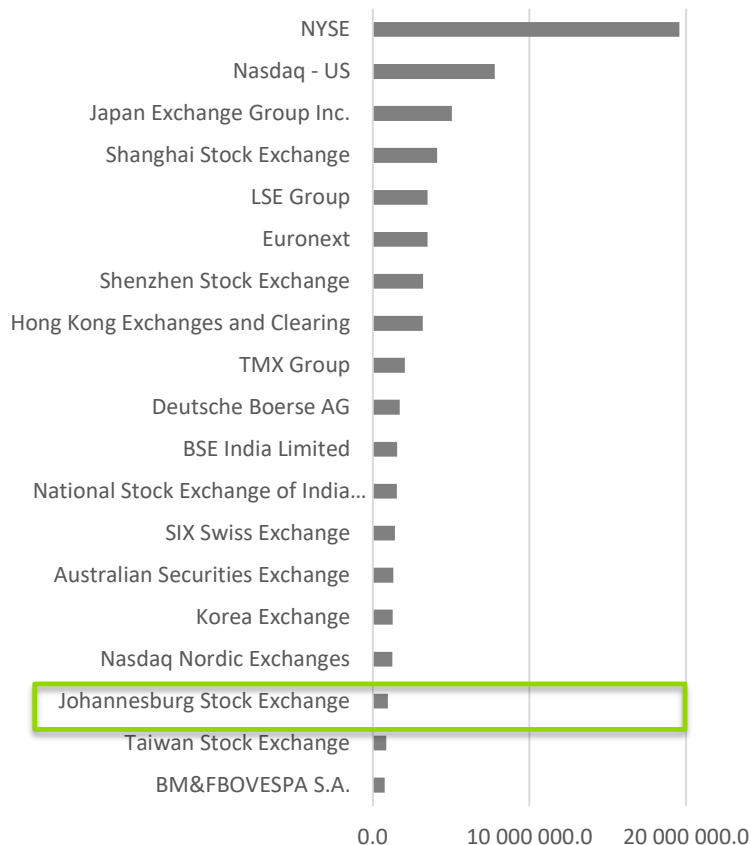


JSE listed companies

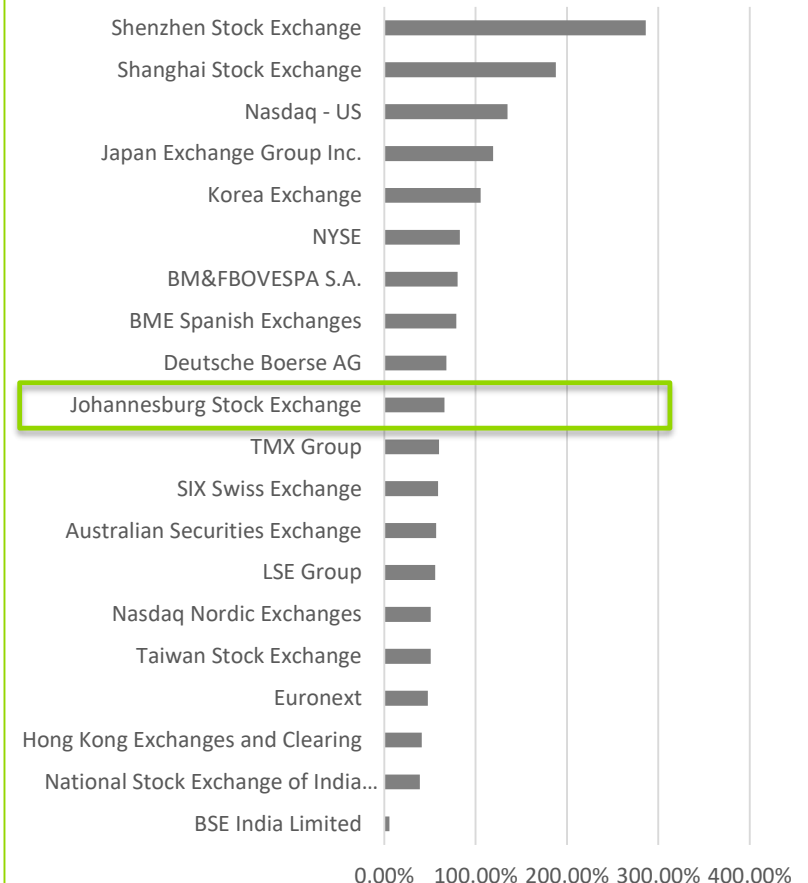


Size and liquidity around the globe

Top 20 Exchanges Market Cap as at December (USD Million)

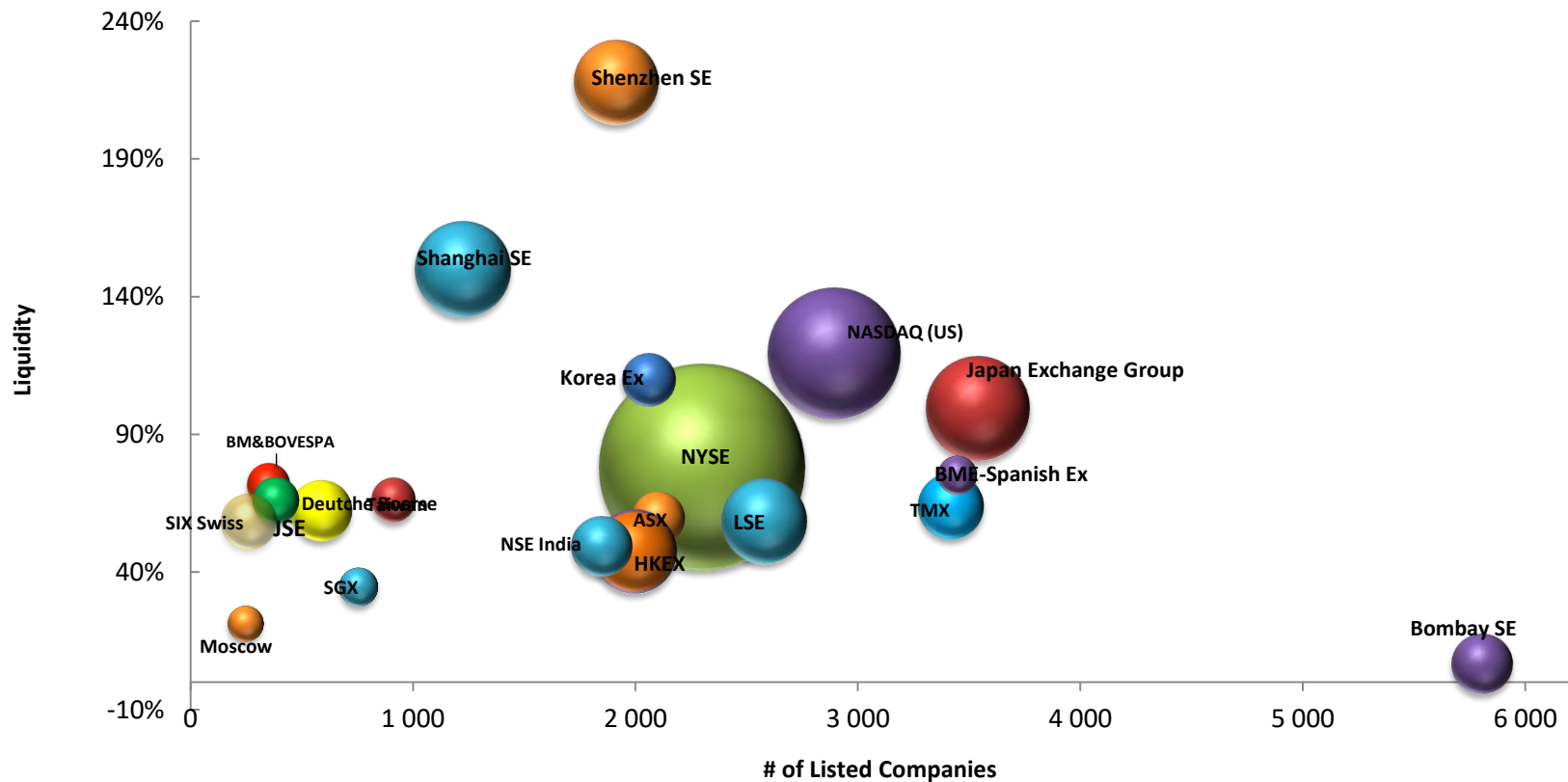


Liquidity of the Top20 Exchanges



Globally competitive

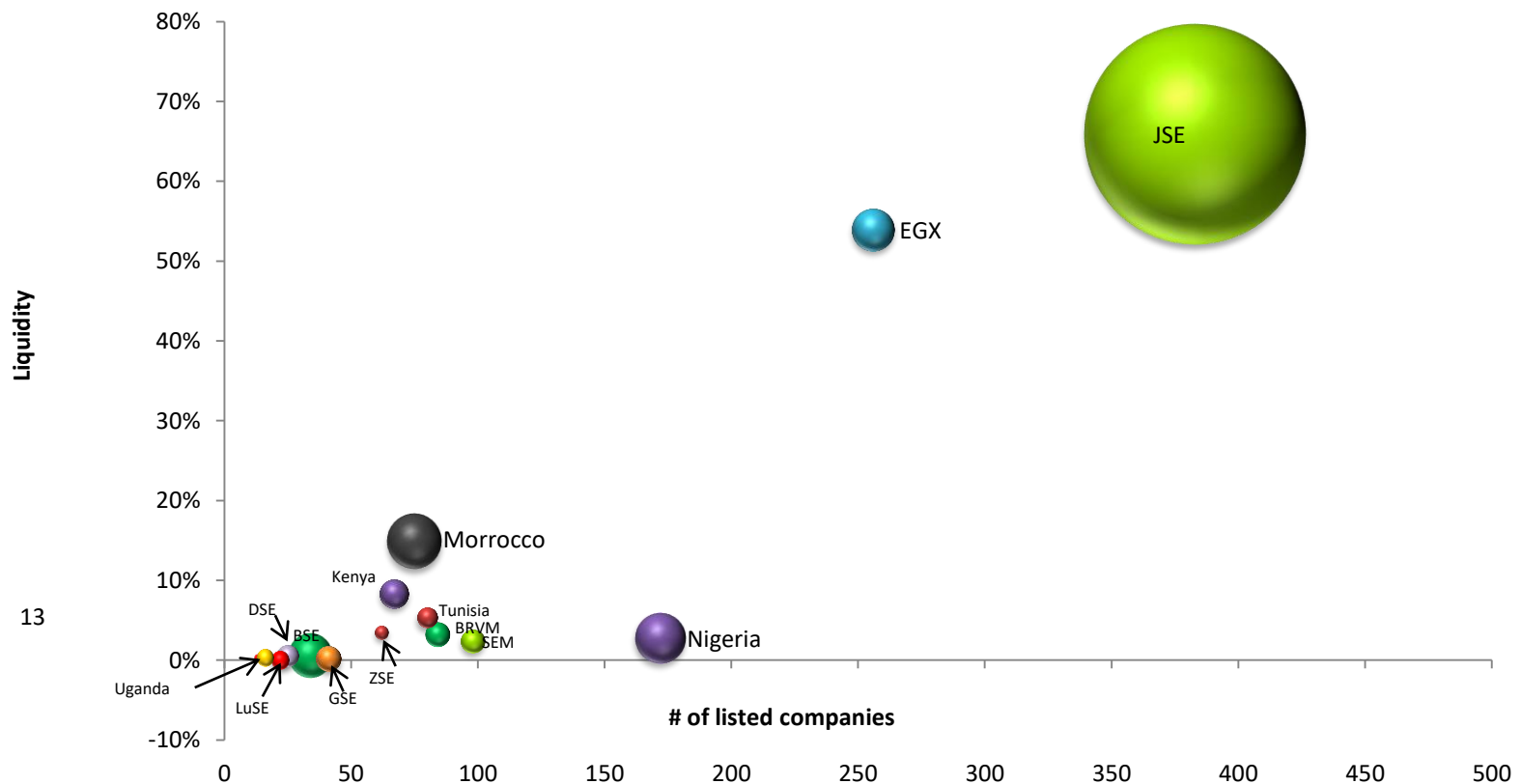
In top 20 global exchanges by market cap



Source: WFE & Strate (JSE Local share register)

Exposure to Africa's consumers and assets

Continent's exchanges in market cap and liquidity terms



Note: Malawi & Uganda omitted due to small MCaps

Source: African Alliance, ASEA, WFE & Strate

Equity Market Products and Overview

- **Listed Companies**
 - ~400 listed companies
- **Exchange Traded Funds (ETFs)**
 - Currently 74 ETFs listed on the JSE with a market capitalisation +- R100 billion
- **Exchange Traded Notes (ETNs)**
 - There are 29 ETNs listed with a market capitalisation of R11.17 billion
- **Moved from T+5 to T+3**
- **ITAC**
- **Sponsored and Unsponsored DRs**
- **+ - 400 Warrants**
- **+ - 300 Structured Products**
- **SPACs**
- **Fast Track Listings**
- **REITs**

Equity Market Trading Statistics

- **Average daily value traded**
 - 2016: R23.75bn
 - 2017: R20.55bn
 - 2018: R23.75bn
 - 2019: R19.74bn
- **Average size per trade**
 - 2016: R82 787
 - 2017: R70 730
 - 2018: R81 024
- **Record days**
 - 21 Dec 2017: R 74.8bn value traded
 - 11 Dec 2015: 667 996 trades
 - 28 Apr 2015: 1.42bn volume traded

JSE



**The JSE Equity Derivative
Market as a Trading Destination**

What are derivatives?

- Instruments used for:
 - **Hedging**
 - Managing risk
 - Cut your potential losses
 - **Speculation**
 - **Improve efficiencies for underlying assets**
 - **Help to reduce transaction costs**

EDM Products

Equity index futures

International derivatives
futures (IDX)

Equity index options

Single-stock options (SSO)

Single-stock future (SSF)

Dividend Derivatives

Contract For Difference
(CFD)

Can-do futures and options

Equity Derivatives Market Trading Statistics

- **Average daily value traded**
 - 2016: R28.37bn
 - 2017: R20.7bn
 - 2018: R21.3bn
 - 2019: R23.68bn
- **Record days**
 - 15 Sep 2015: R208.7bn value traded
 - 15 Dec 2015: 36 506 trades
 - 9 Mar 2016: 84.9 mil contracts
- Foreign activity on Equity Derivatives is roughly 30% of over all volume & value traded.

JSE Colocation

JSE Colocation Facility

Overview

- Launched on Monday 12 May 2014
- Colocation allows clients to place their trading equipment in the JSE's data centre which allows clients the **fastest access to all JSE markets**
- First phase provides space, power, cooling, and physical security for 35 hosting units for clients' computers
 - **Colocation data centre** design is based on a **Tier III design** which is optimised to conserve efficiencies in energy and cooling
 - Colocation data centre has been **configured** to ensure that **all clients experience the same speeds** on the JSE colocation network

JSE Colocation Facility



JSE Colocation Facility

WHY IS COLOCATION IMPORTANT?



No Network Clogging

No risk of having your network clogged with traffic coming from or going through the server.



No Worries about Physical Space

The server won't be in your office, so you don't need to worry about infrastructure.



Power Backup

Special battery backups and automatic transfer switches to ensure there are no power outages.

BENEFITS THAT COME FROM USING COLOCATION SERVICES



Support Services 24/7

Access to a trained staff of technicians ready to assist you 24/7.



More Scalability

Ability to upgrade on-demand.



Redundant Connections

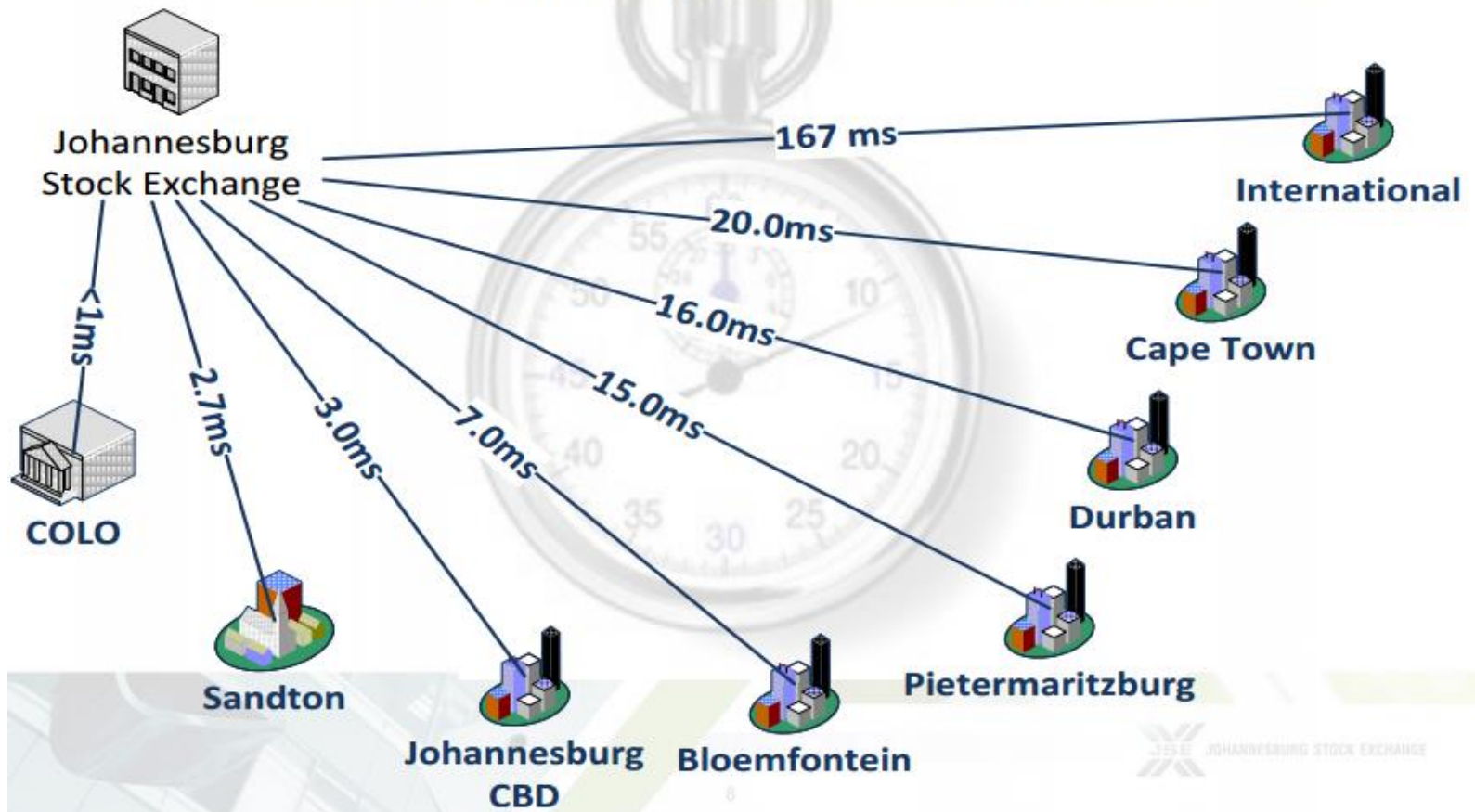
Redundant connections will guarantee your data is always available.



Same features of a large IT department at a fraction of the cost!

Estimated Network Latency Measurement

Latency measured from gateway-to-gateway is consistent
Fastest quoted latency value by network service providers in each region



How fast is fast?

Count the F's in the sentence below:

FINISHED FILES ARE THE RESULT OF
YEARS OF SCIENTIFIC STUDY
COMBINED WITH THE EXPERIENCE OF
YEARS.

JSE Market Highlights

T+3 (11 July 2016)

In financial markets **T+3** is a shorthand for trade date plus three days indicating when securities transactions must be **settled**. **T+3** means that when a security is purchased, payment and the security's certificate must change hands no later than three business days after the trade is executed.



The idea of a shortened settlement cycle has been contemplated within the local market for many years, and in 2012 the move to T+3 was formally mandated by South Africa's Financial Services Board (FSB), the JSE's regulator. In addition to being a regulatory imperative, the move will also bring the South African equities market closer to international settlement cycle benchmarks

ITAC

JSE



Enterprise Development Programme

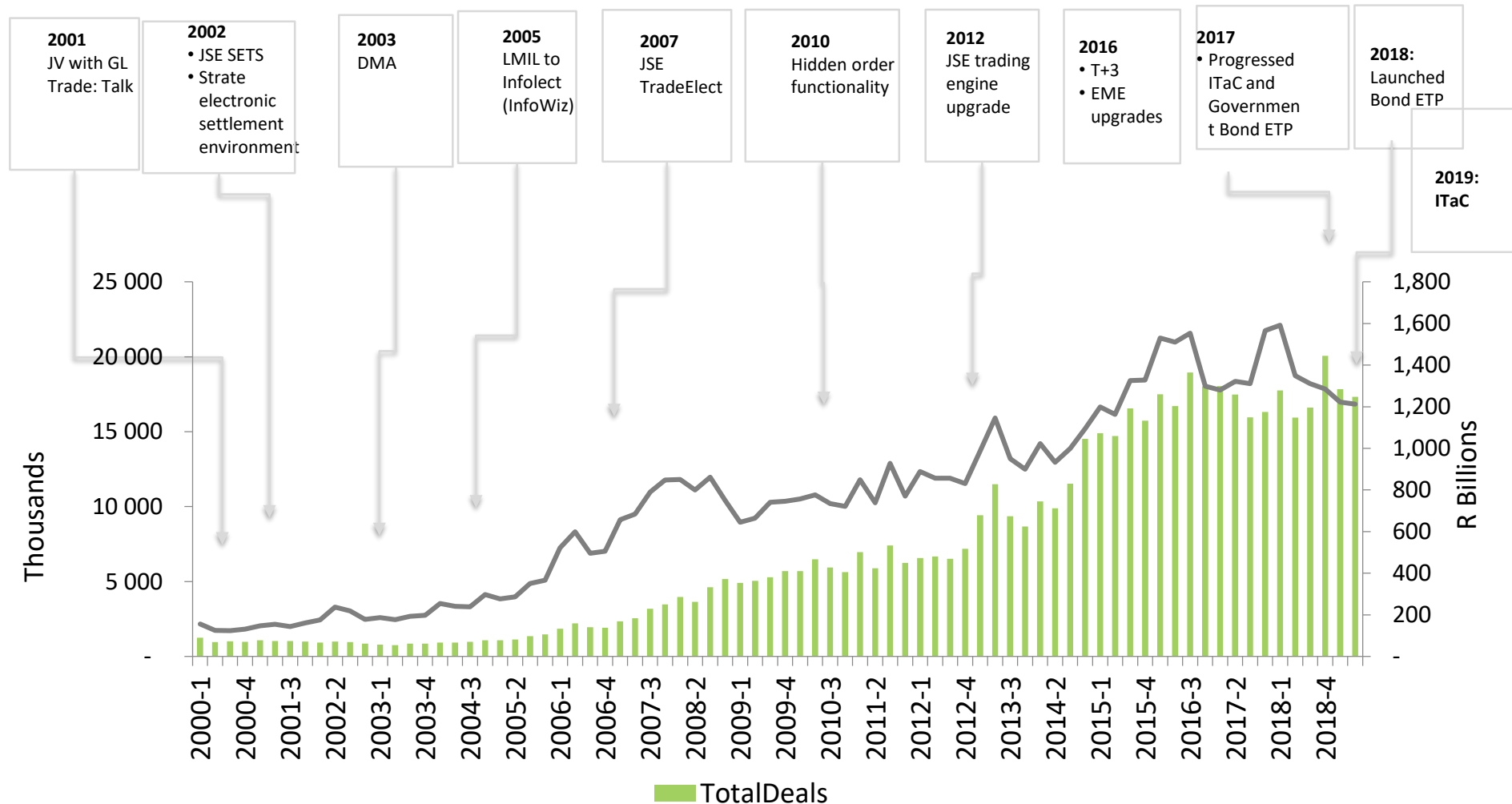
“The JSE is committed to the transformation of the South African capital market industry. Transforming and growing the South African stock broking industry will create more accessibility and encourage more black businesses and investors to enter our Capital Markets and therefore lead to the transformation of both the sector and the eco-system,”

**Driving a
continent forward**

JSE. Driven for your growth.



Technology development drives trade



Why the JSE?

The JSE is the right platform to access African Capital Markets

- **Gateway**
 - Any multi-nationals wishing to acquire assets on the African continent should raise capital in South Africa – on the JSE
- **Dynamic**
 - Big enough to matter, small enough to care – as the number 1 exchange globally for financing through the local equity market, strength of auditing and reporting standards and protection of minority interests, we are both a global and African exchange.
- **Determined**
 - To be part of the growth of our continent – by driving the growth of our continent as an attractive emerging markets investment destination

The JSE, inspired by a prosperous African future



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