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## **Country Overview**

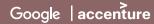
### Population & Economy



Technology Infrastructure

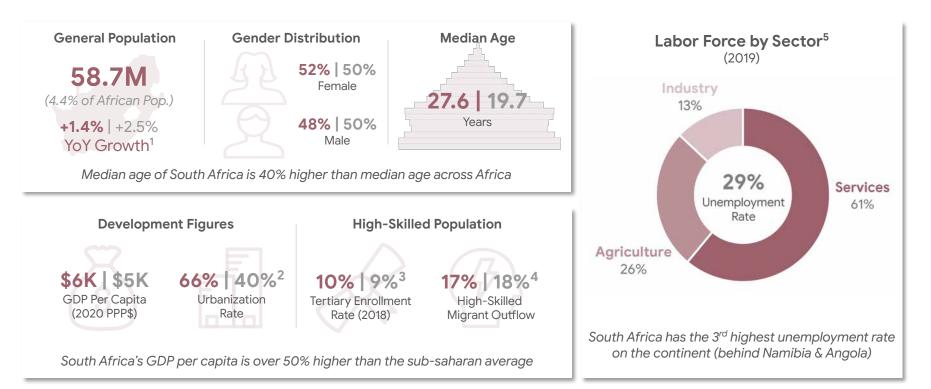


Government Involvement



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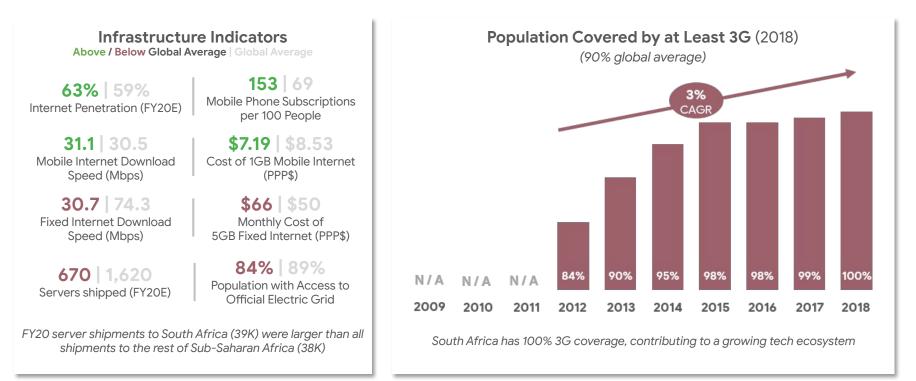
South Africa demographics imply growth potential for startups and developers



Sources: Statista, World Bank, IDC, Expert Interviews, Accenture Analysis Notes: 1. Growth rate from FY18 to FY19, 2. As of 2015, 3. Sub-Saharan Africa, 4. As of 2016, 5. Calculated unemployment



# South Africa's growing tech infrastructure is increasingly able to support internet users and an expanding base of startups



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# The government supports tech ecosystem growth and enables a relatively stable environment for global businesses

#### **Notable Government Policies**



Program 12J provides **tax deductions for retail investors in VC funds** focused on domestic startups



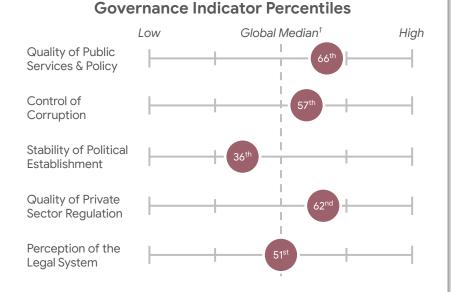
Labor Legislation and strict workers' rights laws make the **process of hiring and firing employees lengthy and expensive** 



The Department of Trade & Industry **funds supplier trainings and education programs** to facilitate small business and startup growth

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The Industrial Development Corporation and Technology VC arm **provides seed capital to startups** ranging from \$70K-\$1M



South Africa provides a well regarded regulatory environment for business and economic growth compared to the global median



## **Developer Population**

#### 上 Demographics

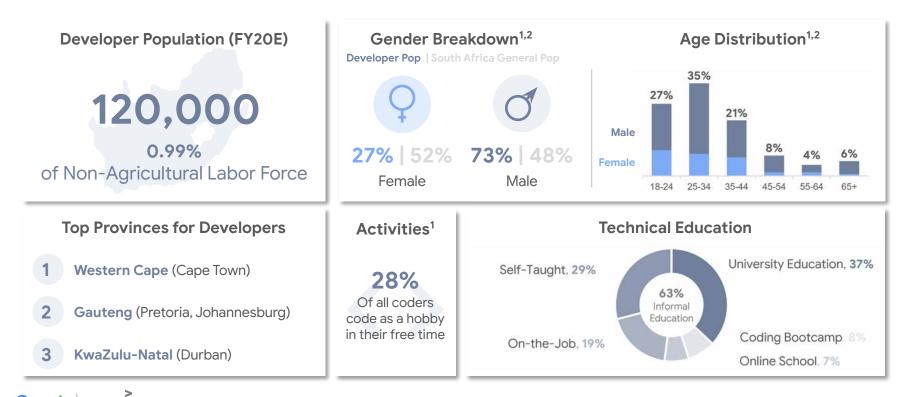
### Education



Ō Experience



# Developer population is largely composed of young males in the Western Cape and Gauteng Provinces



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Sources: Statista. Accenture Surveys. Accenture Analysis

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Notes: Source data is directional due to small sample (N/A used when fidelity of data is too low), Survey was partially distributed by GDGs; 1. n=201; 2. Does not include those who refrain from answering, Percentages may not sum to 100% due to rounding

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Informal education provides new coders an opportunity to learn coding skills and find well paying jobs



Question: How did you primarily learn to program or code?



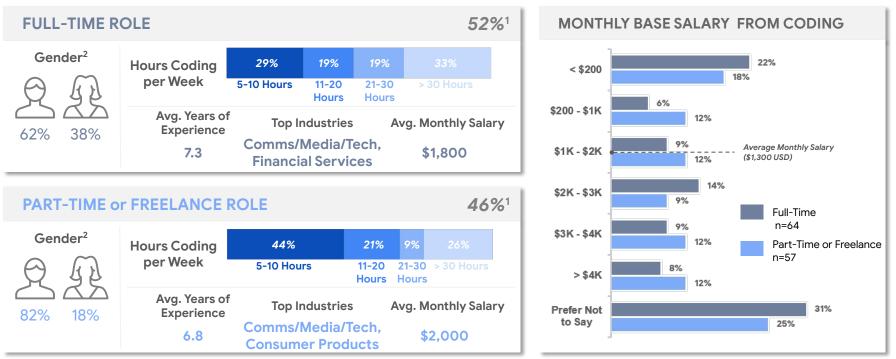
Sources: Accenture Surveys, Accenture Analysis

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Notes: Source data directional due to small N (N/A used if fidelity of data is too low), Survey was partially distributed by GDGs; 1. n=201; 2. Does not include those who refrain from answering, 3. Only universities with ICT programs are included in this analysis



The South African ecosystem supports a nearly even distribution of part-time to full-time roles



Question: How do you spend your time coding or programming?

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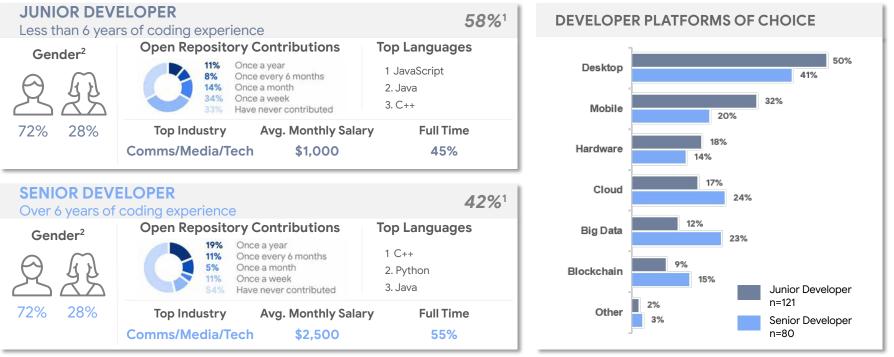
Sources: Accenture Surveys, Accenture Analysis, Trading Economics

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Notes: Source data directional due to small N (N/A used if fidelity of data is too low), Survey was partially distributed by GDGs; 1. n=123, 2% answered both full-time and part-time/freelance work; 2. Does not include those who refrain from answering

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# Junior developers focus primarily on mobile and web, senior coders on cloud and big data platforms



Question: How many years of professional coding or programming experience do you have?

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Notes: Source data directional due to small N (N/A used if fidelity of data is too low), Survey was partially distributed by GDGs; 1. n=201; 2. Does not include those who refrain from answering

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# Technology Ecosystem



Innovators (fundraising)



Investors



Educators

Enablers





<u>۲۵۳</u>

8%

SaaS

3%

CleanTech

7%

HealthTech.

BioTech

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13%

Other

#### Fintech and AI/ML are leading verticals in, both, Cape Town and Johannesburg; healthtech and edtech show early promise

18%

FinTech

Â

7%

**Breakdown by Top Verticals** 

13%

Al, Big Data,

Cloud

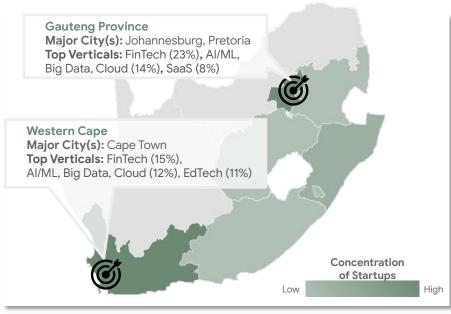
7%

AdTech /

9%

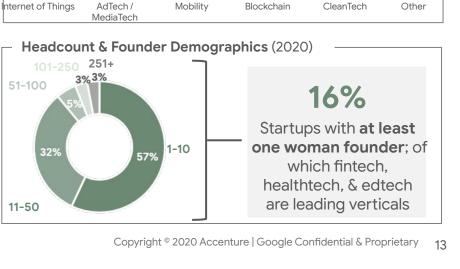
E-Commerce

4%



"The Western Cape has always been a hub with many internationally invested startups; but the Gauteng ecosystem grows because of technical universities and government funded enablers."

- Accelerator, South Africa



8%

EdTech

3%

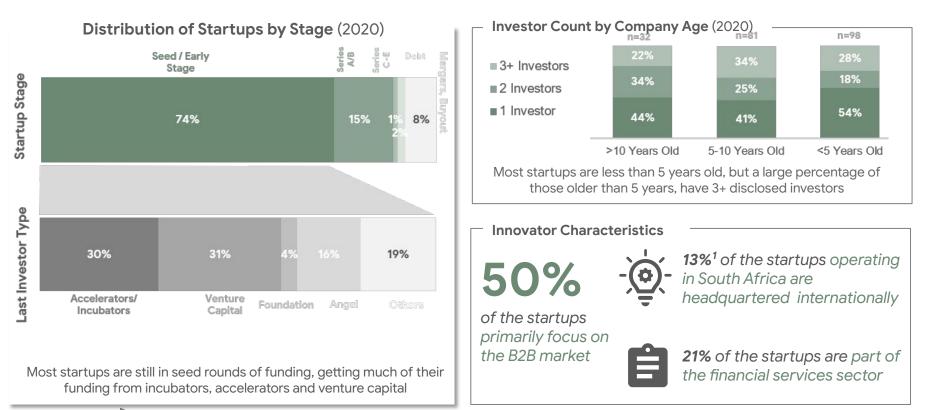
Blockchain

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Nearly 90% of South African startups are in seed or early stage rounds of growth



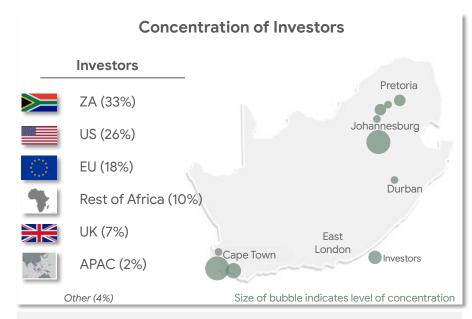
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Sources: Accenture Surveys, Accenture Analysis, Expert Interviews

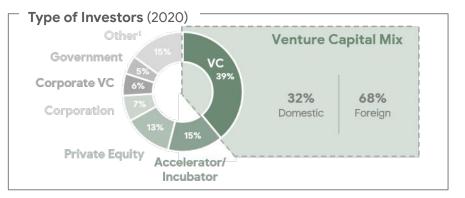
Notes: Calculations based on startups headquartered domestically and with an active website 1. Calculated based on startups operating in-country, headquartered domestically or internationally



#### South Africa has a balanced mix of local vs. foreign investors



"There has been an increase in later-stage funding and more startups begin to scale, but still face difficulty gaining capital. South Africa is one of the major investment markets - with Kenya and Nigeria." - Investor, South Africa



#### Areas of Focus



30% of foreign investors only invest in early stage vs 47% of local investors



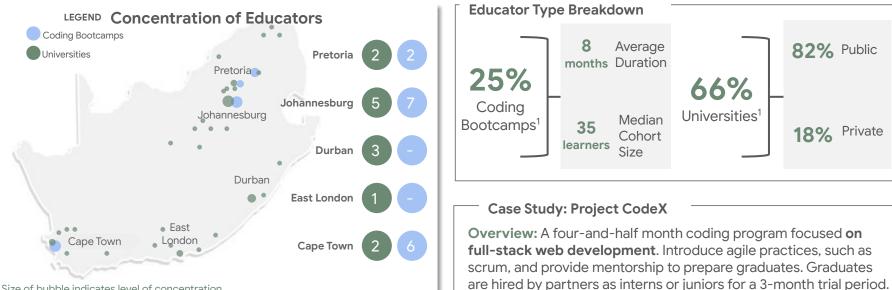
18% of investors active in South Africa solely invest in the software sector



9% of investors active in South Africa solely invest in fintech



#### Universities and bootcamps are common across the largest population centers



**Tech Stack:** 

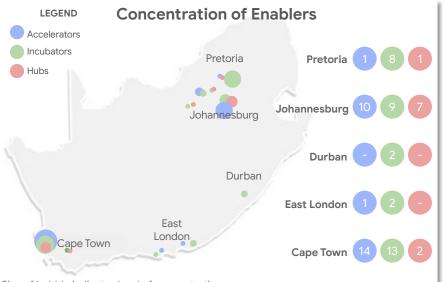
Size of bubble indicates level of concentration

"University is the preferred avenue for high-skilled developers, and coding bootcamps attract people from more underserved communities" - Entrepreneur/Investor, Cape Town

### JavaScript



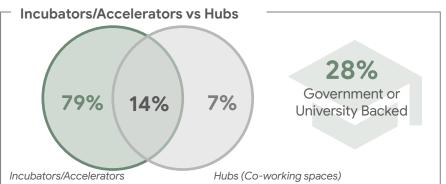
Cape Town and Johannesburg are, both, centers for accelerators and incubators, but Johannesburg has a significantly higher concentration of hubs



Size of bubble indicates level of concentration

"Due to a lack of understanding in startup needs, it is tough to work with the government, despite the large number of grants and initiatives."

- Entrepreneur/Investor, Cape Town



#### **Case Study: The Innovation Hub**

Overview: An innovation agency, with five business incubators, developed through the Department of Economic Development in the Gauteng Province to "promote economic development & competitiveness." It currently supports more than 260 startups.

#### **Focus Sectors:**







Creative Economy & Multimedia





## **Supporting Materials**



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#### Glossary

Term	Definition	
Countries Analyzed	South Africa, Egypt, Morocco, Nigeria, Kenya, Ghana, Rwanda, Ethiopia, Uganda, Tanzania, Ivory Coast	
African Startup	<ul> <li>A company that meets the following criteria:</li> <li>In growth stage of funding (e.g., seed round, series A - F)</li> <li>Technology-focused</li> <li>Headquartered in Africa or driving the majority of its revenue in Africa</li> </ul>	
Tech Ecosystem	The network of people, organizations and institutions that enable innovation	
Innovator	African startup (see definition above)	
Investor	Provides funding in the tech ecosystem (e.g. venture capital, corporate venture capital, angel investors, government funding, private equity)	
Educator	Provides technical training or education (e.g. university, bootcamps, online courses, on-the-job training)	
Enabler	Provides support in the form of work space, training, education, mentorship or funding (e.g. accelerators, incubators, work hubs)	
Professional Developer	An individual that is employed in a job that involves coding and spends 5 or more hours per week coding	
Junior Developer	An individual with less than six years of coding experience	
Senior Developer	An individual with six or more than six years of coding experience	
Formal Education	Universities or secondary schools that provide information communication technology (ICT) curriculum	
Informal Education	Bootcamps, online course, self-taught or on-the-job curriculum to teach coding skills	
Female Founded Startup	Startup with at least one female founder	
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