

Table of Contents

Country Profile



Technology Infrastructure

Government Policy

Developer Population







Experience

Technology Ecosystem

























Kenya's large and young population holds potential for ecosystem growth

General Population

53.7M

(4.4% of African Pop.)

+2.3% | +2.5% YoY Growth¹

Gender Distribution

50% | 50% Female

50% | 50% Male



The seventh largest population in Africa and a young median age holds high growth potential for the economy and technology ecosystem

Development Figures

\$3K | \$5K

GDP Per Capita (2020 PPP\$)

27% 40%²

Urbanization Rate

High-Skilled Population

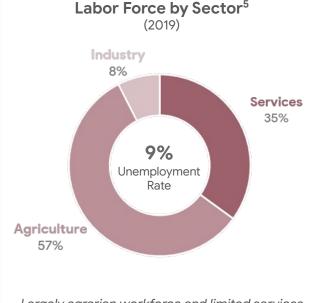
11% | 9%³

Tertiary Enrollment Rate (2018)

14% 18%⁴

High-Skilled Migrant Outflow

Higher than average tertiary enrollment feeds a burgeoning tech ecosystem, but an agriculture-first economy limits growth



Largely agrarian workforce and limited services sector limits growth of the tech ecosystem













A lack of high-speed internet challenges tech ecosystem growth

Infrastructure Indicators

Above / Below Global Average | Global Average

20% | 59%

Internet Penetration (FY20E)

21.3 | 30.5

Mobile Internet Download Speed (Mbps)

18.1 | 74.3

Fixed Internet Download Speed (Mbps)

N/A¹ | 1,620

Servers shipped (FY20E)

96 | 69

Mobile Phone Subscriptions per 100 People

\$2.73 | \$8.53

Cost of 1GB Mobile Internet (PPP\$)

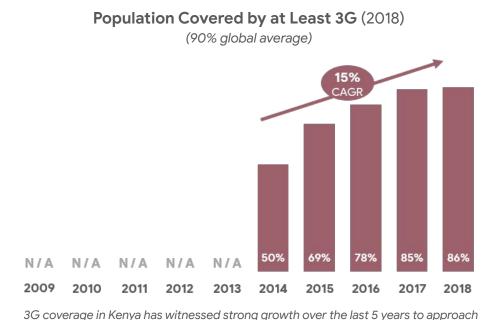
\$54 | \$50

Monthly Cost of 5GB Fixed Internet (PPP\$)

64% | 89%

Population with Access to Official Electric Grid

Infrastructure-related constraints around connectivity and electricity slow growth



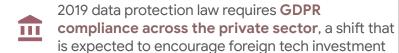
3G coverage in Kenya has witnessed strong growth over the last 5 years to approach the global average





Kenyan government enacted policies to attract foreign investment and improve digital literacy, but launched few efforts to incent startup creation

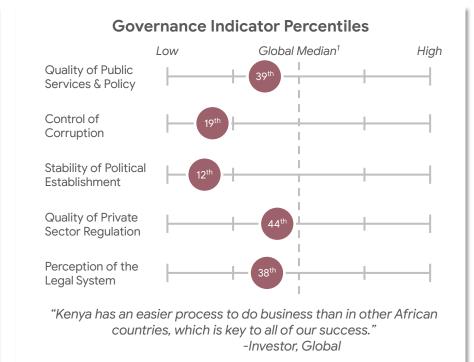
Notable Government Policies





Through the 2015 Enterprise Kenya initiative, the government has pledged to directly invest in incubators, tech hubs, and local startups

2016 Digital Literacy Program has delivered over
1M devices to public schools to encourage digital
literacy among underprivileged youth







Developer Population







• Experience







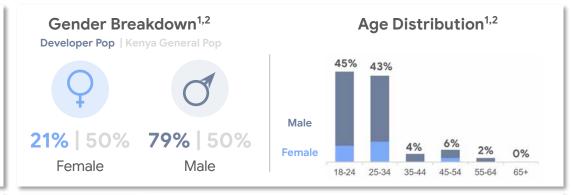


The developer population skews young; nearly 9 in 10 coders are currently below the age of 35

Developer Population (FY20E)

60,000

0.75% of Non-Agricultural Labor Force

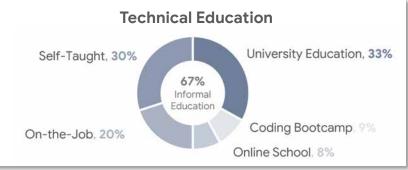


Top Locations for Developers

- 1 Nairobi County (Nairobi)
- 2 Coast Province (Mombasa)
- 3 Central Region (Nenyuki)

Activities¹

34% Of all coders code as a hobby in their free time





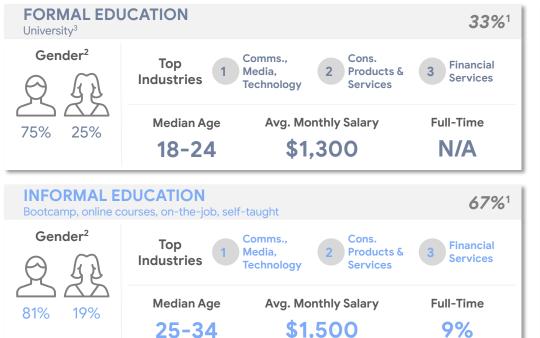


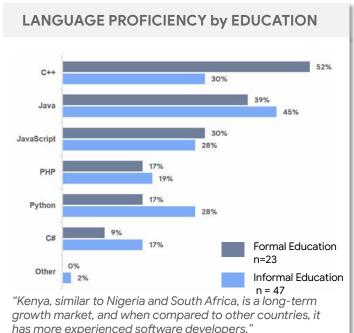






Informally trained coders are more likely to be male, slightly older, and proficient in Java





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



-Business Lead, Cross-Continent Educator

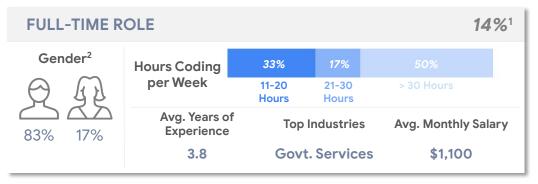




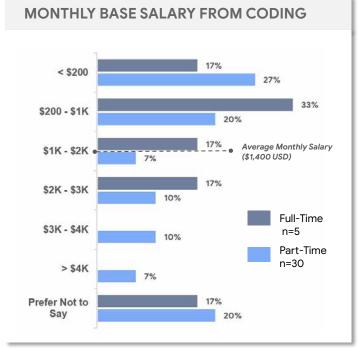




Kenyan tech ecosystem predominantly part-time and freelance coders







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







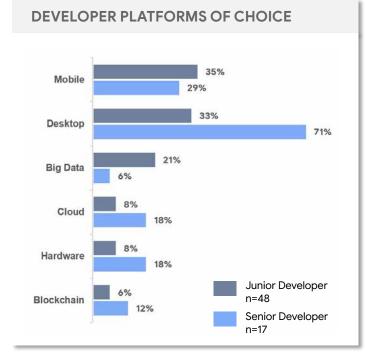




Females better represented among junior coders



SENIOR DEVELOPER 26%¹ Over 6 years of coding experience **Open Repository Contributions Top Languages** Gender² Once a year 1 Java Once every 6 months Once a month 2. C++ Once a week 3. Python Have never contributed 15% Top Industry Comms/Media/Tech, Avg. Monthly Salary **Full Time** \$2,400 6% Industry



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





Technology Ecosystem



Innovators (focus areas)



Innovators (fundraising)



Investors



Educators



Enablers



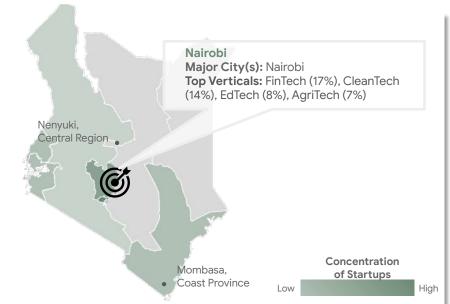






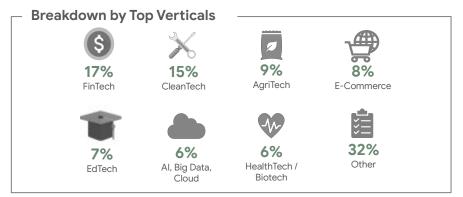


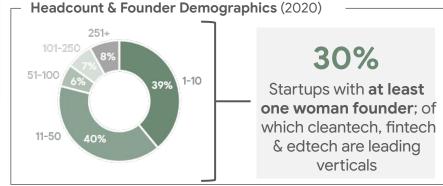
Fintech, cleantech and agritech drive the tech ecosystem; edtech viewed as a growth opportunity by local entrepreneurs



"The Kenyan government has launched programs to improve literacy and is also working with edtech startups focused on providing mobile solutions to accomplish that."

- Enabler, Global



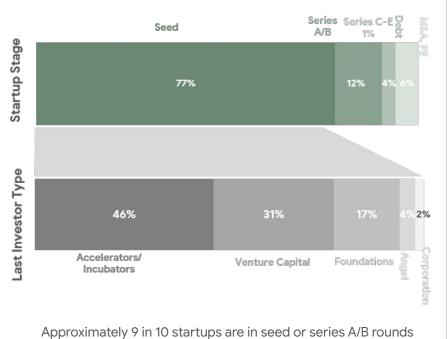




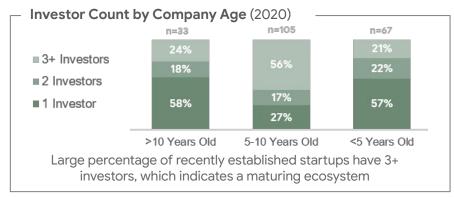


More than 75% of startups are in the seed round of funding and largely depend on accelerators and incubators for funding





indicating an ecosystem primed for growth



Innovator Characteristics

43%



31%¹ of the startups operating in Kenya are headquartered internationally

of the startups primarily focus on the B2B market



17% of the startups are part of the agriculture, forestry and fishing sector





Venture capitalists, particularly American and European firms, play a leading role

Investor Geography

Investors



Kenya (13%)



US (34%)



EU (21%)



Rest of Africa



UK (7%)



APAC (6%)

Other (5%)

Leading Kenyan Investors



Chandaria Capital is a VC investing in seed & series A/B rounds. They help secure funding, provide mentoring and marketing/sales support. They invested in Ilara Health, Savannah Brands & Kobo360.



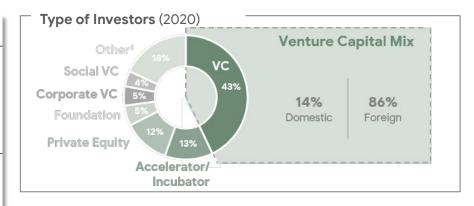
Safraricom runs the Spark Fund to support growth of mobile-tech startups with \$55K - \$200K in venture funding. Portfolio includes mSurvey, Eneza, Lynk.



Zephyr Acorn provides VC funding to early stage. ZEPHYR ACORN high-potential startups in East Africa. Portfolio includes 4G Capital, Asoko Insight, Connect Health, Yum

"Kenya is amongst the top countries in the continent to see private equity investments. The overall investment flow in Kenya has greatly increased in 2019."

- Investor, Lagos



Areas of Focus



27% of foreign investors only invest in seed or early stage vs 67% of local investors



19% of investors active in Kenya solely invest in software



51% of investors active in Kenya invest in fintech startups



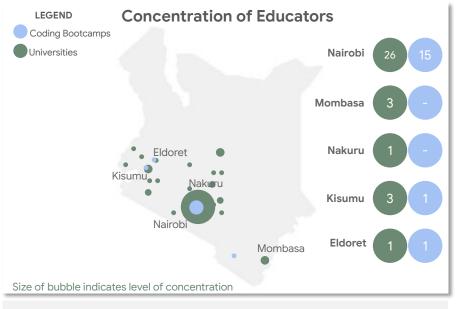






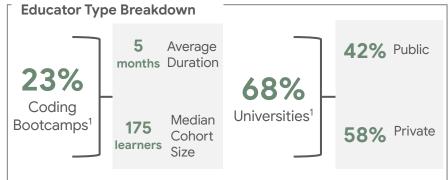


Nairobi is the center of formal and informal coding education with 76% of universities and over 85% of coding bootcamps



"We look at Nairobi as a good place to recruit talent because it has a base of strong universities and we consider it a long-term growth market."

- Entrepreneur/Recruiter, Nairobi



Case Study: Strathmore University

Overview: Uses a triple-helix model, exposing students to academia, industry, and government learnings. Its research centers cover topics across mobile, cybersecurity, entrepreneurship, and more. Includes multiple incubators that **launched 300+ startups**.

Programs (sample):

ICT COE



WaziHub loT Bootcamp



iBiz Africa Incubator

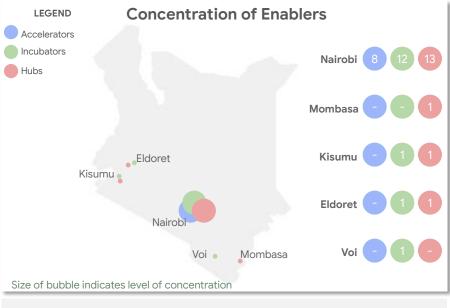


Women in Tech Incubator



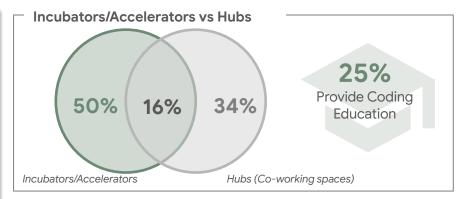


Nairobi is the epicenter for incubators, accelerators, and hubs



"The presence of accelerators and hubs has really taken off in Kenya just as it has in Nigeria. We will start seeing them pop up outside of Nairobi as they continue to expand."

- Investor, Global



Case Study: Growth Africa

Overview: A cohort-based accelerator where entrepreneurs sharpen their business acumen through mentorship support, networking opportunities, peer to peer sharing, and access to local and international investors. They have launched **over 220 startups**.

Investor Network (sample):















Supporting Materials

Glossary

Term	Definition
Countries Analyzed	South Africa, Egypt, Morocco, Nigeria, Kenya, Ghana, Rwanda, Ethiopia, Uganda, Tanzania, Ivory Coast
African Startup	A company that meets the following criteria: In growth stage of funding (e.g., seed round, series A - F) Technology-focused Headquartered in Africa or driving the majority of its revenue in Africa
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
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Junior Developer	An individual with less than six years of coding experience
Caniar Davidanar	An individual with air or more than air reason of adding a marianes
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

