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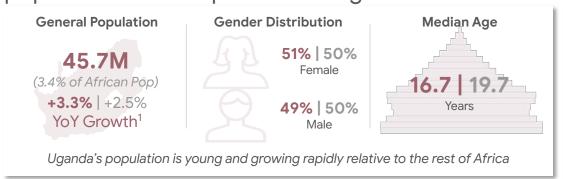




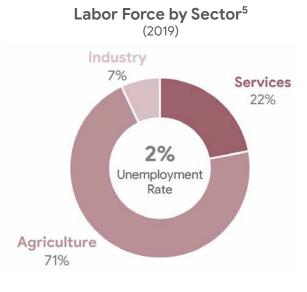




Uganda's labor force is predominantly agrarian, but its young and growing population creates potential for growth







Uganda's labor force is primarily dedicated to agriculture, keeping unemployment very low, but also slowing growth in other sectors













High connectivity costs and an underdeveloped tech infrastructure pose obstacles to ecosystem growth

Infrastructure Indicators

Above / Below Global Average | Global Average

36% | 59%

Internet Penetration (FY20E)

13.6 | 30.5

Mobile Internet Download Speed (Mbps)

14.8 | 74.3

Fixed Internet Download Speed (Mbps)

39 | 1,620

Servers shipped (FY20E)

57 | 69

Mobile Phone Subscriptions per 100 People

\$4.69 | \$8.53

Cost of 1GB Mobile Internet (PPP\$)

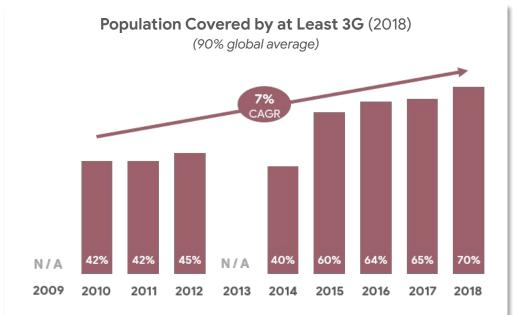
\$66 | \$50

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

22% | 89%

Population with Access to Official Electric Grid

Tech infrastructure in Uganda is not accessible or affordable for a large percentage of the population, which limits growth within the tech ecosystem



Uganda's 3G coverage has witnessed consistent growth over the last few years, still significantly below the global average



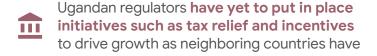


Relative to peers, Ugandan government provides fewer measures to spur growth in tech ecosystem

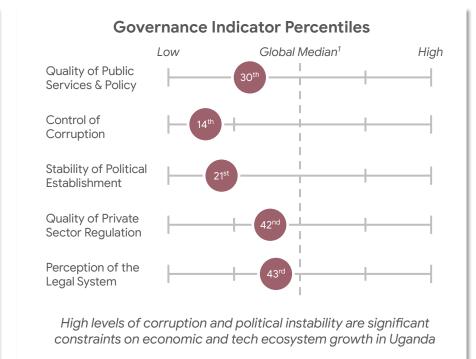
Notable Government Policies







The government partners with UKAID on UpAccelerate, a program offering young entrepreneurs up to \$10K in funding







Developer Population







Experience





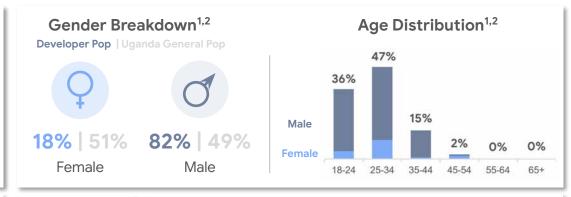


The Ugandan developer population skews young, as over 80% of coders are below the age of 35

Developer Population (FY20E)

10,000

0.23% of Non-Agricultural Labor Force

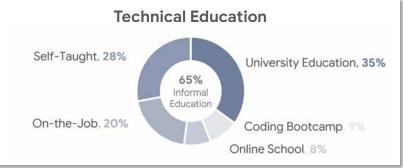


Top Regions for Developers

- **Central Region** (Kampala)
- Western Region (Mbarara, Masindi)
- Northern Region (Dokolo)

Activities¹

26% Of all coders code as a hobby in their free time







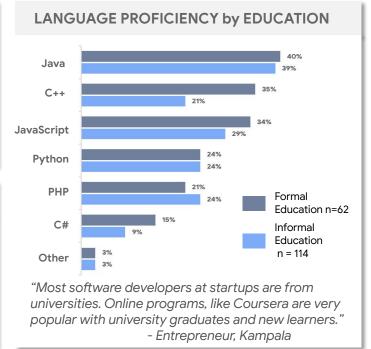




Universities are a viable education pathway for young coders in Uganda, but older coders are more likely to pursue training via informal channels







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







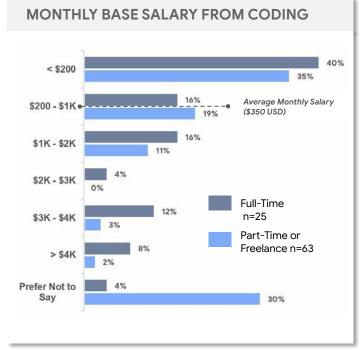




Software development is a lucrative profession in Uganda with full-time coders earning over 3x the average monthly salary in the country







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





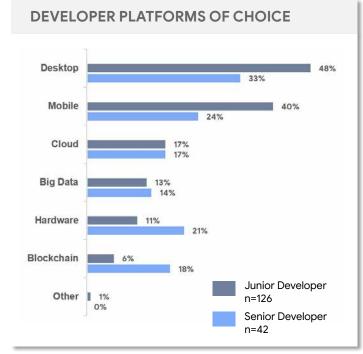




Junior developers focus primarily on desktop and mobile, while senior developers are more likely to code for advanced platforms such as blockchain







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





Technology Ecosystem



Innovators (focus areas)



Innovators (fundraising)



Investors



Educators



Enablers



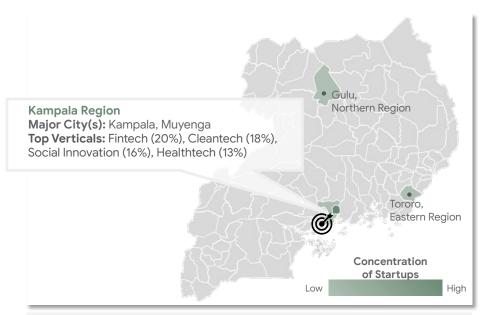






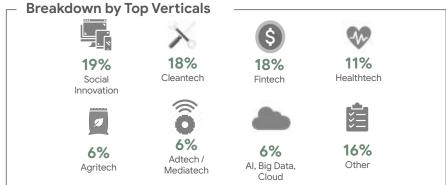


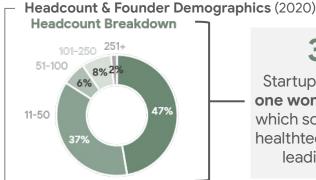
Social innovation, cleantech and fintech startups drive growth



"Most Ugandans are employed, but so many are under-employed because they work in agriculture. Entrepreneurship offers a path for additional employment."

- Investor, Kampala





34%

Startups with at least one woman founder: of which social innovation. healthtech & fintech are leading verticals





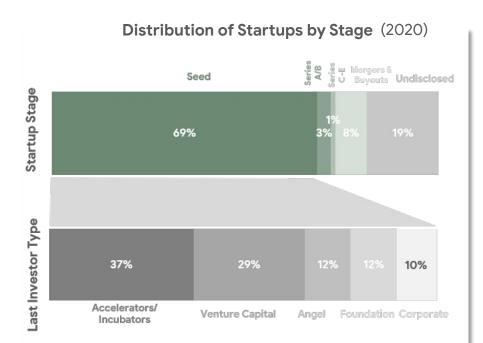




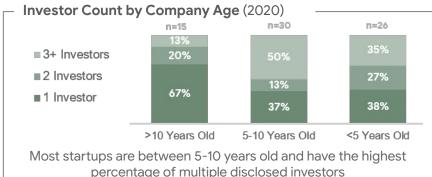




Accelerators, incubators and venture capitalists play a leading role



There is increasing participation by angel investors, foundations and corporate investors in seed rounds for Ugandan startups



Innovator Characteristics

46%



38%¹ of the startups operating in Uganda are headquartered internationally

of the startups primarily focus on the B2B market



20% of the startups are part of the agriculture, forestry and fishing sector





Local sources provide only 11% of investments, while investors from the United States and European Union account for over 60%

Investor Geography

Investors



Uganda (11%)



US (40%)





Rest of Africa



UK (7%)

Other (2%)

Leading Ugandan Investors



Shona is an accelerator with ~30 successful graduates in East Africa, made 18 investments, of which 4 have exited.



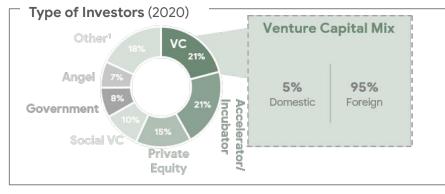
Kain is an angel investment network located in Kampala, aimed at increasing early-stage investments in Uganda by partnering with the Innovation Village.



Angels Initiatives is an impact investment fund helping incubators, hubs and social impact businesses raise money.

"Not many early stage investors will provide \$100-300K because there are not many major exits for investors."

- Entrepreneur/Investor, Kampala



Areas of Focus



35% of foreign investors only invest in seed or early stage vs 73% of local investors



26% of investors active in Uganda invest in agriculture sector

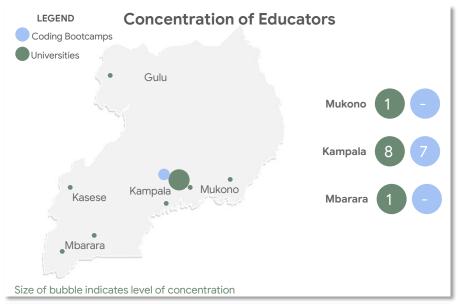


10% of investors invest solely in cleantech focused startups



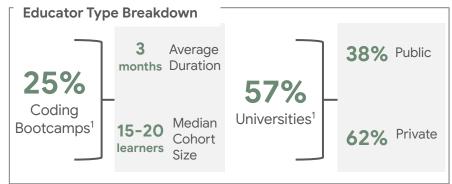


Kampala-based informal education channels create additional resources for coders



"Continued education is really important. Many companies have sessions every Friday to upskill coders. Free online courses are also really important because Coursera is expensive and bootcamps are still growing."

- Entrepreneur, Kampala



Case Study: Women in Technology Uganda

Overview: A hub that seeks to encourage and train more women in the tech ecosystem by providing a space for them to learn coding, business, health, and life skills. WITU has **helped 300+ women** find STEM jobs and create their own businesses.

Partners (not exhaustive):







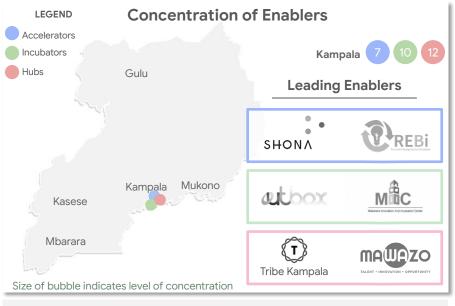






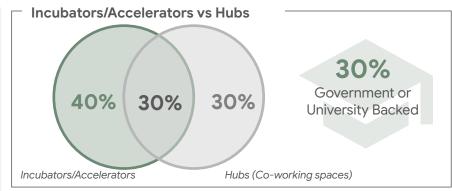


Enablers centralized in Kampala are key to the development of the ecosystem



"Investors may develop relationships with incubators, such as Innovation Village, to use them as a pipeline for investments."

- Entrepreneur/Investor, Kampala



Case Study: The Innovation Village

Overview: A one-stop shop for Ugandan entrepreneurs to grow their ideas through the hub's service portfolio: ACE - acceleration, capital, expertise. Members also include investors, accelerators, corporates, and public agencies, numbering 140+ in total.

Focus Sectors (sample):













Health

Media & Entertainment



FinTech



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
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

