



# Market Review | Morocco

April, 2020

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# Country Overview



Population & Economy

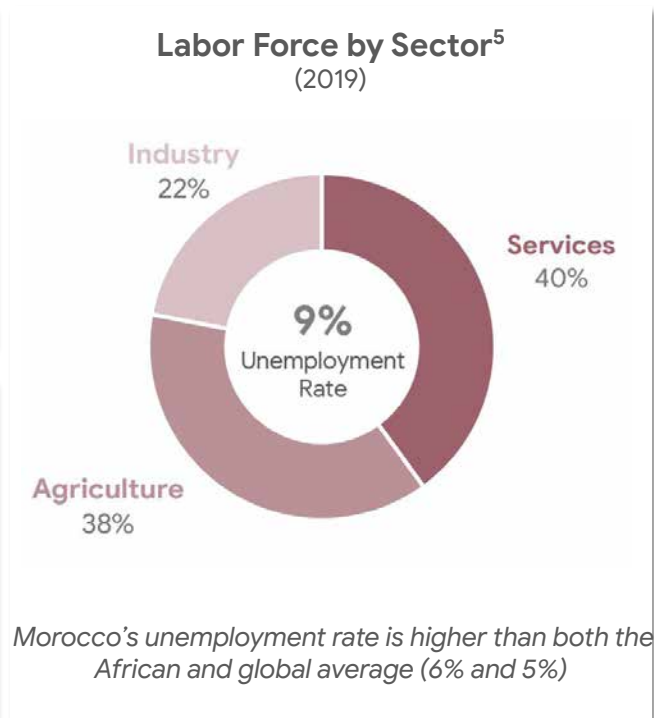
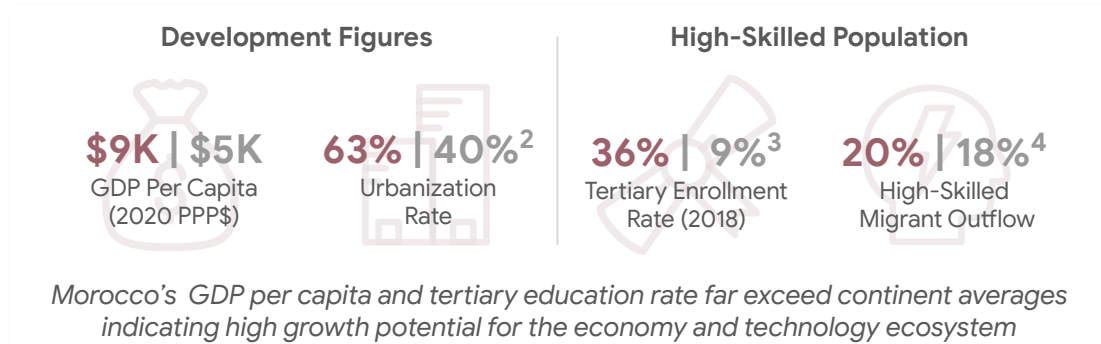
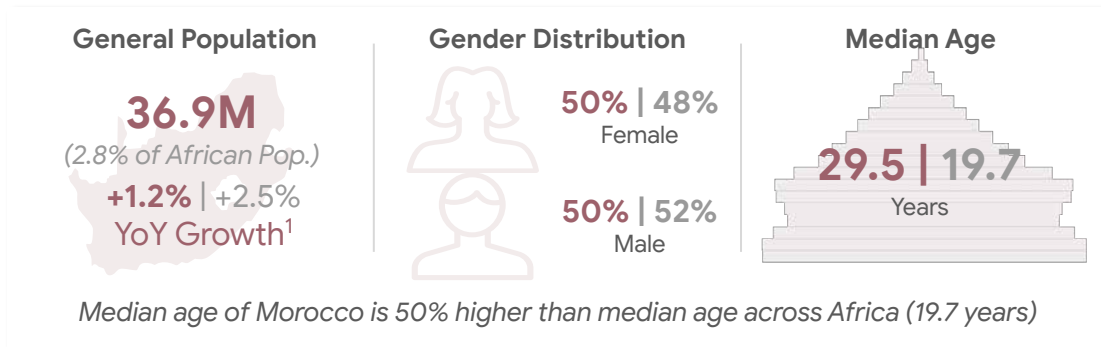


Technology Infrastructure



Government Involvement

# Morocco maintains a strong tech ecosystem due to high levels of economic development and education



# Accessible and affordable connectivity fuels tech ecosystem growth

## Infrastructure Indicators

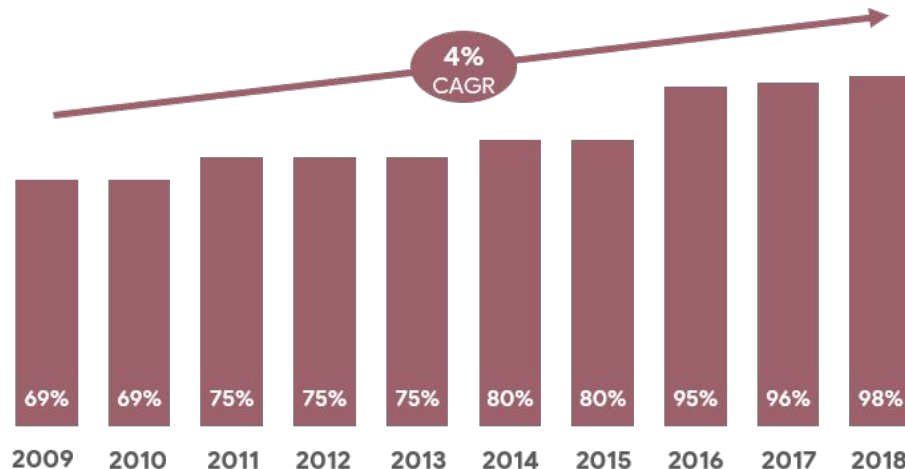
Above / Below Global Average | Global Average

<b>70%</b>   59%	<b>124</b>   69
Internet Penetration (FY20E)	Mobile Phone Subscriptions per 100 People
<b>29.7</b>   30.5	<b>\$1.66</b>   \$8.53
Mobile Internet Download Speed (Mbps)	Cost of 1GB Mobile Internet (PPP\$)
<b>18.5</b>   74.3	<b>\$24</b>   \$50
Fixed Internet Download Speed (Mbps)	Monthly Cost of 5GB Fixed Internet (PPP\$)
<b>296</b>   1,620	<b>100%</b>   89%
Servers shipped (FY20E)	Population with Access to Official Electric Grid

Access to consistent electricity and mobile internet connections enable digital growth in Morocco

## Population Covered by at Least 3G (2018)

(90% global average)



Morocco's 3G coverage exceeds the global average, providing mobile service to virtually every user

# Morocco's government is actively developing initiatives to promote ecosystem growth and inclusivity

## Notable Government Policies



The Digital Development Agency has begun **standardizing regulations and policies across the government** to facilitate growth



The Access to Information Law (2018) **increases the ability to collect and share data** across tech companies and startups

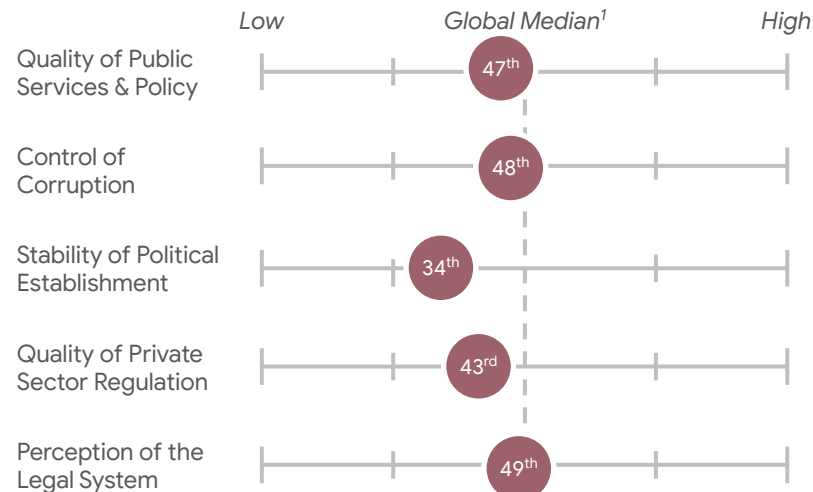


The Digital Economy Development Financing Policy **increases competition in the tech ecosystem by increasing inclusivity**



The FII Financing program has a goal of **funding 300 tech startups by 2022**, a mandate by the government

## Governance Indicator Percentiles



*Morocco's governance is on par with the global median, but presents challenges for new businesses due to regulatory and political instability*



# Developer Population



Demographics



Education



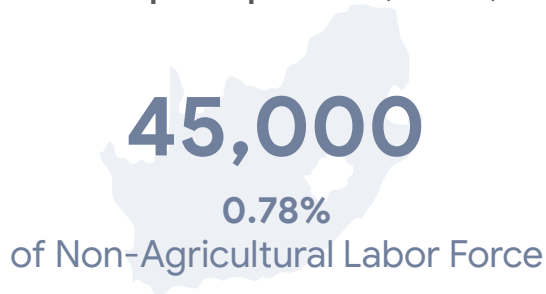
Employment



Experience

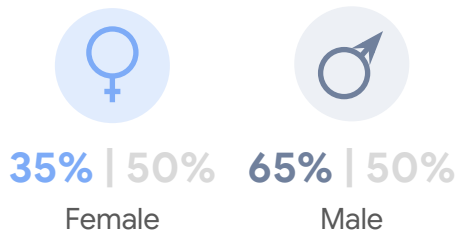
Morocco has one of the most inclusive developer populations; female coders represent nearly half of the 18-24 year old demographic

### Developer Population (FY20E)

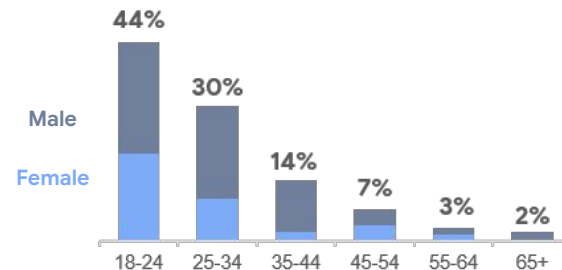


### Gender Breakdown<sup>1,2</sup>

Developer Pop | Morocco General Pop



### Age Distribution<sup>1,2</sup>



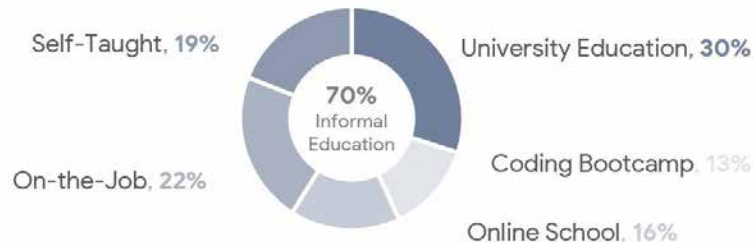
### Top Regions for Developers

- Casablanca-Settate** (Casablanca)
- Marrakesh-Safi** (Marrakesh)
- Fes-Meknes** (Fes)

### Activities<sup>1</sup>

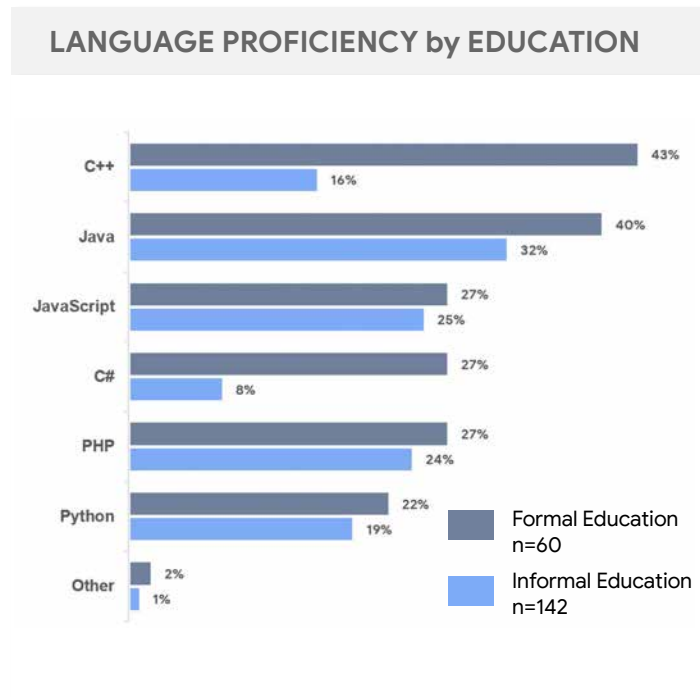


### Technical Education





# Informal education channels, like bootcamps, focus coding languages like Java, PHP, and Python



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

# Female coders are more heavily represented in full-time roles than in part-time or freelance work

## FULL-TIME ROLE

38%<sup>1</sup>

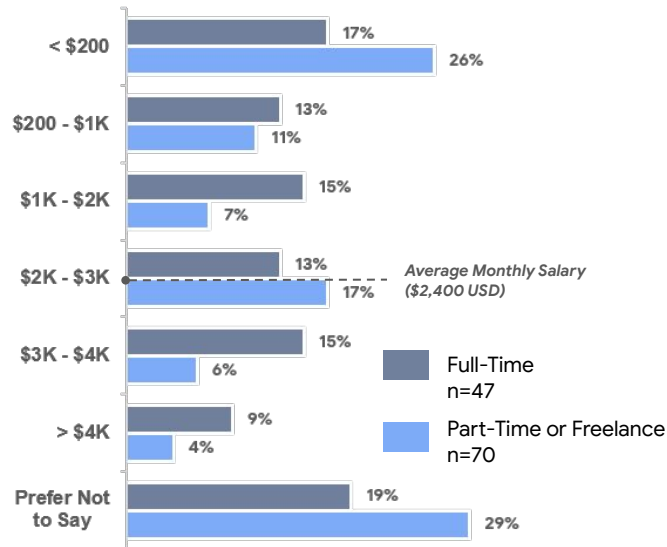


## PART-TIME or FREELANCE ROLE

57%<sup>1</sup>



## MONTHLY BASE SALARY FROM CODING



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

Senior developers lead in coding for blockchain, hardware and mobile, while junior coders focus more heavily on desktop and big data platforms

## JUNIOR DEVELOPER

Less than 6 years of coding experience

51%<sup>1</sup>

### Gender<sup>2</sup>



### Open Repository Contributions



6% Once a year  
14% Once every 6 months  
15% Once a month  
41% Once a week  
24% Have never contributed

### Top Languages

1. Java
2. JavaScript
3. PHP

### Top Industry

Comms/Media/Tech

### Avg. Monthly Salary

\$900

### Full Time

25%

## SENIOR DEVELOPER

Over 6 years of coding experience

49%<sup>1</sup>

### Gender<sup>2</sup>



### Open Repository Contributions



24% Once a year  
17% Once every 6 months  
10% Once a month  
15% Once a week  
33% Have never contributed

### Top Languages

1. Java
2. Python
3. C++

### Top Industry

Comms/Media/Tech

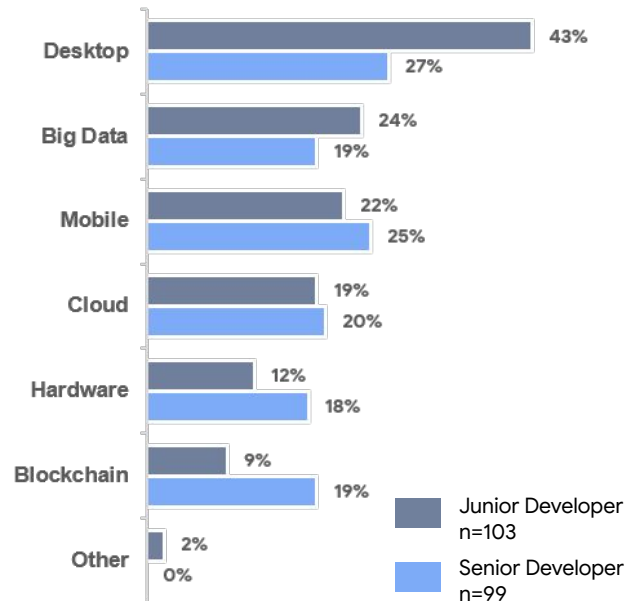
### Avg. Monthly Salary

\$2,300

### Full Time

27%

## DEVELOPER PLATFORMS OF CHOICE



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



# Technology Ecosystem



Innovators (*focus areas*)



Innovators (*fundraising*)



Investors



Educators



Enablers

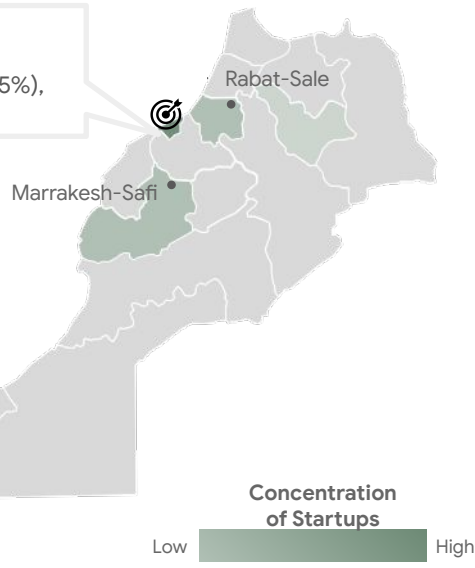


# The e-commerce vertical is a critical part of the Moroccan tech ecosystem with a key hub in Casablanca

## Casablanca-Settat Region

Major City(s): Casablanca

Top Verticals: E-Commerce (35%),  
FinTech (10%), HRTech(10%)



## Breakdown by Top Verticals



28%

E-Commerce



12%

HRTech



12%

AdTech /  
MediaTech



9%

SaaS



6%

AI/ML, Big Data,  
Cloud



6%

CleanTech



6%

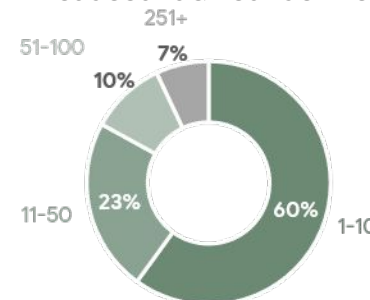
EdTech



21%

Other

## Headcount & Founder Demographics (2020)



16%

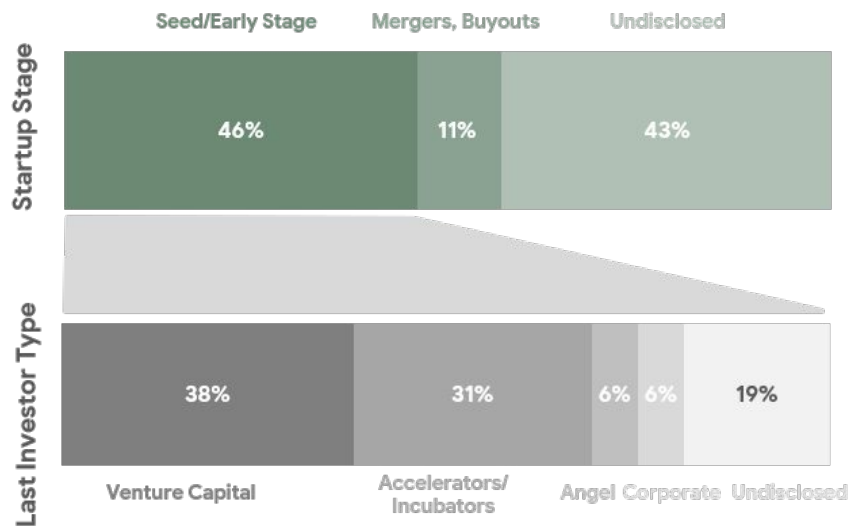
Startups with **at least one woman founder**; of which e-commerce & HRTech are leading verticals

*"The high taxes and slow & costly processes to operate a business in Morocco make it really difficult for startups to launch and scale"*  
- Investor, Casablanca



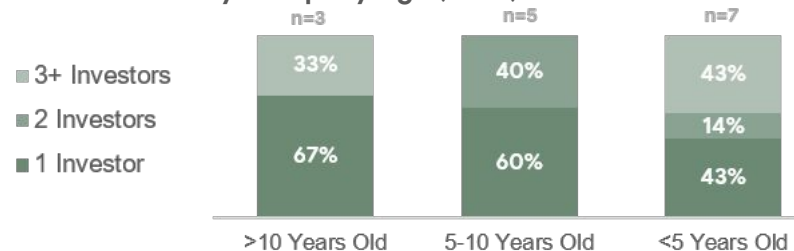
# Venture capital firms play a leading role in funding seed and early stage startups followed closely by accelerators and incubators

## Distribution of Startups by Stage (2020)



Most of the startups are still in early stages of funding, getting much of their funds from incubators, accelerators and venture capital

## Investor Count by Company Age (2020)



Newer startups are gaining more traction from investors. Nearly 50% of the startups are being funded by a single investor (disclosed)

## Innovator Characteristics

# 49%



of the startups primarily focus on the B2B market

33%<sup>1</sup> of the startups operating in Morocco are headquartered internationally

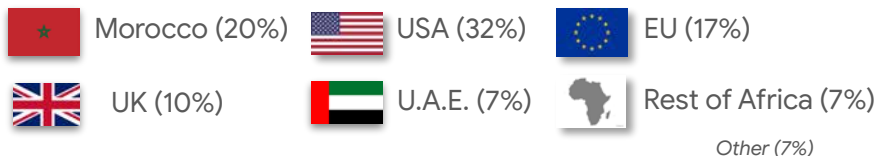


18% of the startups are part of the professional services sector



# A wide range of global investors fund startups in Morocco

## Investors



## Leading Moroccan Investors



**Outlierz Ventures** invests \$50K to \$500K in seed or pre-series A tech-enabled, mostly B2B, companies across Africa



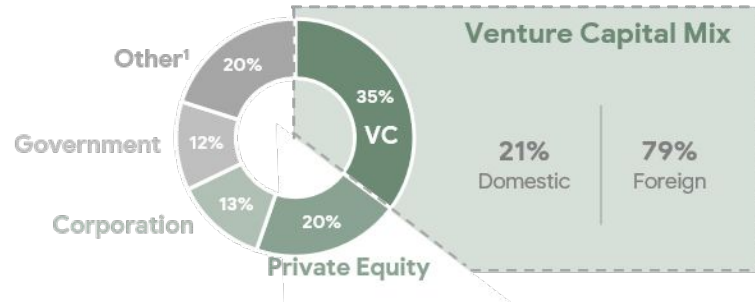
**Wise Ventures** is a subsidiary of the Small Enterprise Assistance Funds (SEAF) with 35M MAD to invest in early-stage startups, in addition to SMEs



**Central Guarantee Fund** is a public institution based in Rabat that provides seed capital

*"Morocco is expected to see an increase in investment from China, especially as China invests in Tangier Tech City plans."*  
- Educator, Rabat

## Type of Investors (2020)



## Areas of Focus



16% of foreign investors only invest in seed or early stage vs 50% of local investors



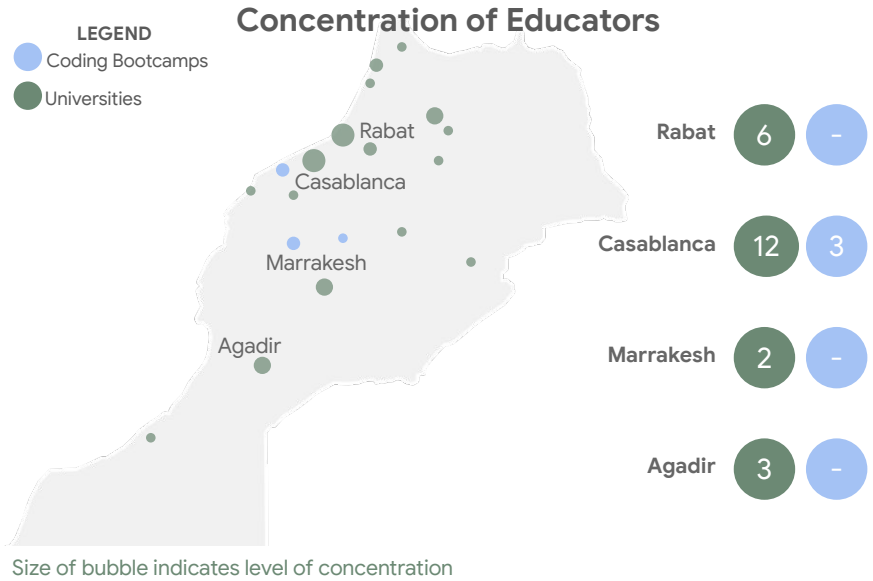
~18% of investors active in Morocco invest solely in the software sector



40% of investors active in Morocco invest in E-Commerce

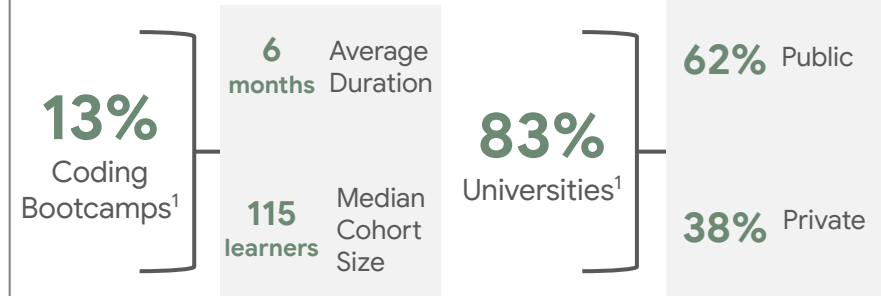


# University programs and other informal channels are critical to developing new coders due to a lack of coding bootcamps



*"Universities in Morocco are developing, but are still not on par with the universities in Egypt, Rwanda or South Africa."*  
- Entrepreneur/Investor, Casablanca

## Educator Type Breakdown



## Case Study: 3W Academy

**Overview:** Started in France, the Casablanca branch opened in 2018. Their main 4-month fee-based training program focuses on full-stack web dev (primarily male students); women make up 50% of the free coding classes, offered via a separate program

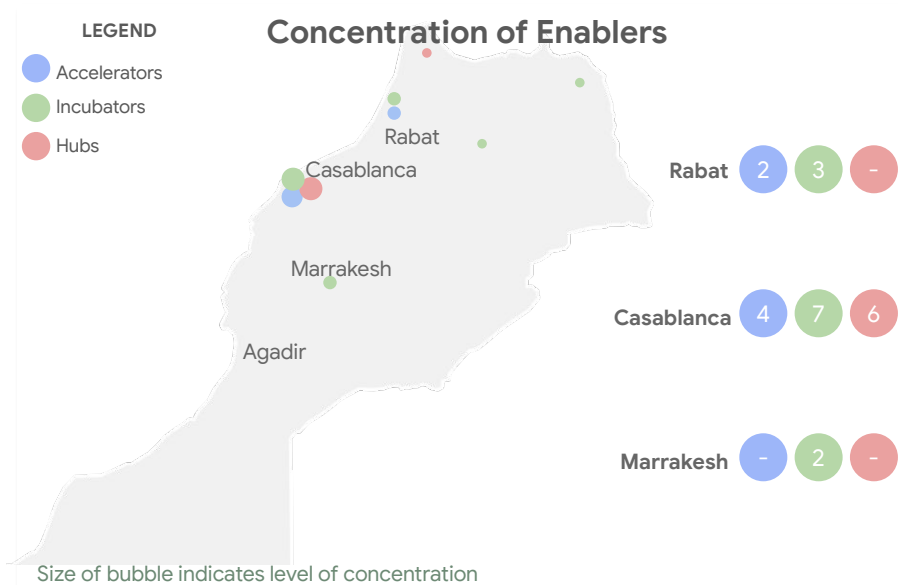
### Tech Stack:







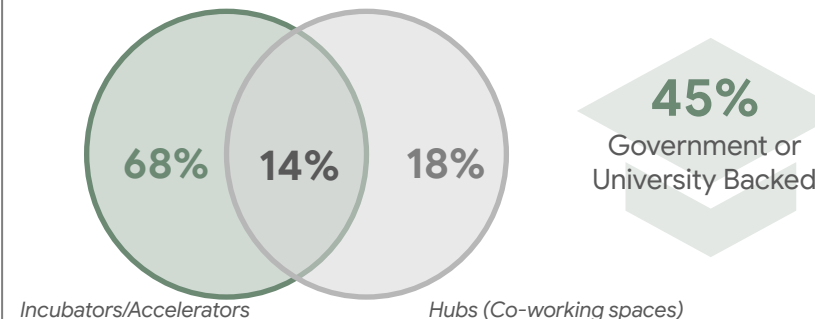
# Moroccan government & universities are increasingly active in the tech ecosystem, frequently supporting accelerators, incubators, and hubs



*"As a hub, we used to have an office in Morocco, but compared to other cities where we had hubs it was a challenging market, so we decided to close the office in Morocco."*

- Enabler/Investor, Global

## Incubators/Accelerators vs Hubs



## Case Study: Emerging Business Factory

**Overview:** An incubator/hub in Marrakesh which provides some funding, training, and co-working space in exchange for shares. As one of the first incubators in Marrakech, **they focus on technology and media startups**. They currently house 12 startups.

### Partners (sample):





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## Supporting Materials

# Glossary

Term	Definition
Countries Analyzed	South Africa, Egypt, Morocco, Nigeria, Kenya, Ghana, Rwanda, Ethiopia, Uganda, Tanzania, Ivory Coast
African Startup	<p>A company that meets the following criteria:</p> <ul style="list-style-type: none"> <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