

TECH Pearl

Be agile, explore possibilities

UGANDA'S IT & ITES VALUE PROPOSITION FOR AFRICA



UGANDA'S AFRICAN IT & ITES PROJECT PLAN PHASES



PHASE 1

Factualisation of IT & ITES market dynamics in Africa and heatmap for Uganda



PHASE 2

African value proposition arising from the research and heatmap opportunities



PHASE 3

Documentation and high level roadmap



Introduction of Value
Proposition Africa

One-on-one meetings with
Ugandan partners for input.
Creation of heatmap and
use it as background to
shape the VP

Draft Value Proposition Africa
feedback meeting

Presentation of the final
value proposition*Roadmap
for implementation

WHY THIS PROJECT



IT & ITES TERMINOLOGY USED IN THIS DOCUMENT

Analysis Scope

IT spent includes:

- Information technology -networks and systems integration, IT consultancy (excluding telecommunication networks)
- Business Process Management: Includes all business process management from voice (customer care) to non-voice (document management, finance, HRM, etc.)
- Software and hardware products

IT & ITES industry services: The first two points above, but part of "Software as Services"

Digital: portion of IT & BPM industry that uses new digital based technologies to enable the original services, or extend them (e.g. IT, cloud, BPM: big data and analytic services), digital distributed software Saas

Outsourcing and offshoring (Offshoring, Nearshoring, Reshoring):

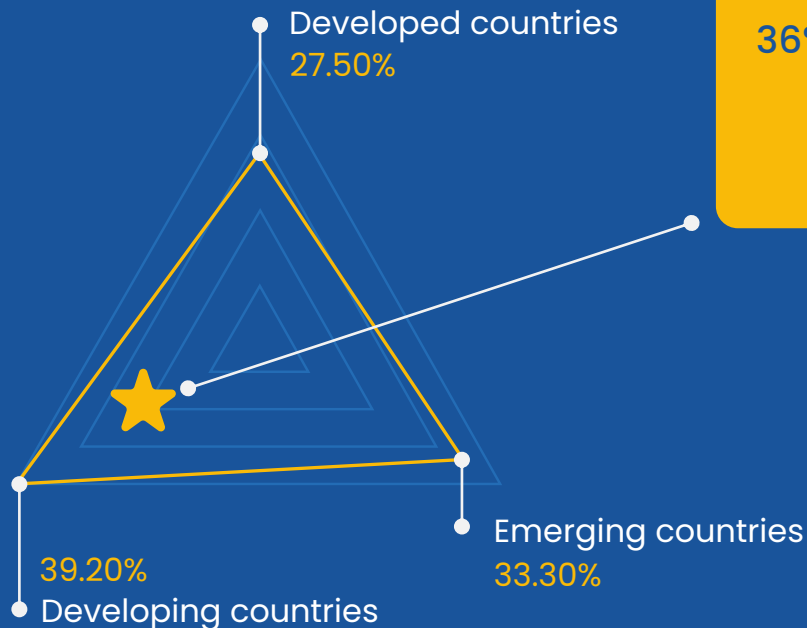
Offshoring - basing some of a company's processes or services overseas

outsourcing - third party managed services; offshoring; same but for third party countries.



IN THE LAST 25 YEARS, IT & ITES HAS ACCOUNTED FOR 1/3RD OF WORLD ECONOMIC GROWTH, INCLUDING AFRICAN COUNTRIES

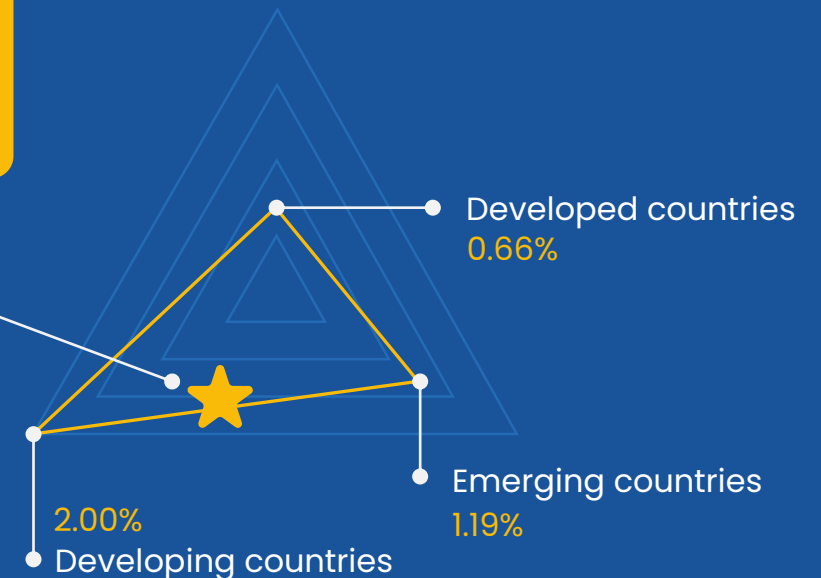
ICT Contribution, Share to GDP, 1995 - 2015



Africa 2012-2017 :
36% digital ICT contribution share, and 1,21% points of growth

ICT Contribution to GDP, annual points 1995 - 2015

Developed countries

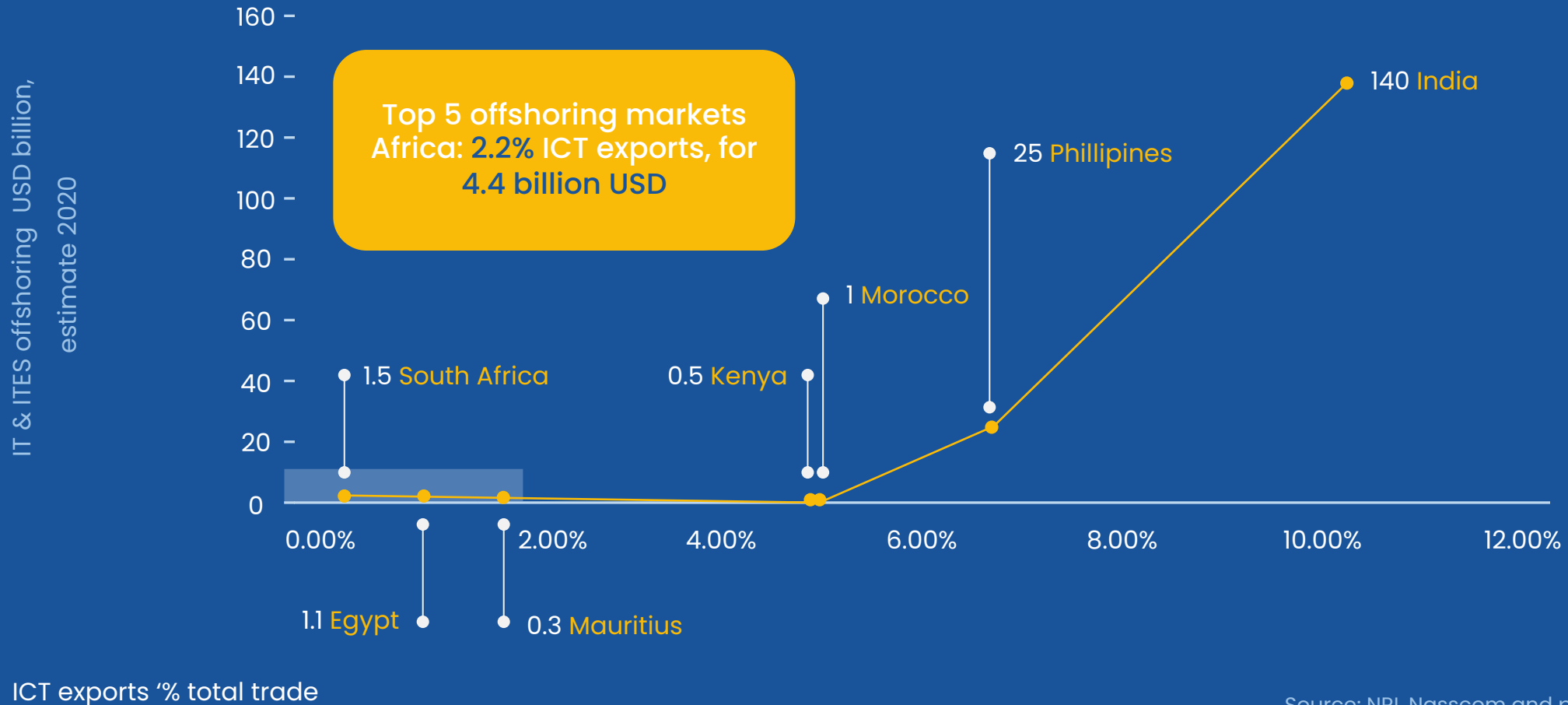


Source: * own computation, derived from Jorgenson, W and Vu, K (2016), The ICT revolution, world economic growth, and policy issues, Telecommunication policy, and Niebel, T. (2018). ICT and economic growth—Comparing developing, emerging and developed countries. World Development; ** derived from Solomon and van Klyton, (2020). The impact of digital technology usage on economic growth in Africa. Utilities Policy



THE AFRICAN OFFSHORING INDUSTRY IS AN OPPORTUNITY THAT AWAITS TO BE CAPTURED

Africa offshoring versus World leaders



Source: NRI, Nasscom and press release, Africa tech



HEAT MAP INSIGHTS



THREE KEY MESSAGES FROM THE INSIGHTS

Presented and refined
in two previous
working sessions with
stakeholders



IT spent : Opportunity in Africa

- Africa's IT & ITES industry is lagging other continents
- Most African countries' offshoring opportunities lay within Africa, not on other continents

Four African country-clusters define the Uganda opportunity

- First segment 40% (of revenue): nearby countries with English as common language (South Africa, Kenya, Tanzania, Ethiopia, Zimbabwe, Zambia)
- Second segment (40%): large and more advanced countries than Uganda in IT & ITES (Nigeria, Egypt, Ghana as main ones)
- Third Segment (10%): Nearshoring of smaller countries like Malawi or Rwanda
- Fourth Segment (10%): a smaller opportunity: Francophone and Central Africa, limited competitiveness for Uganda

Market is moving into digital,

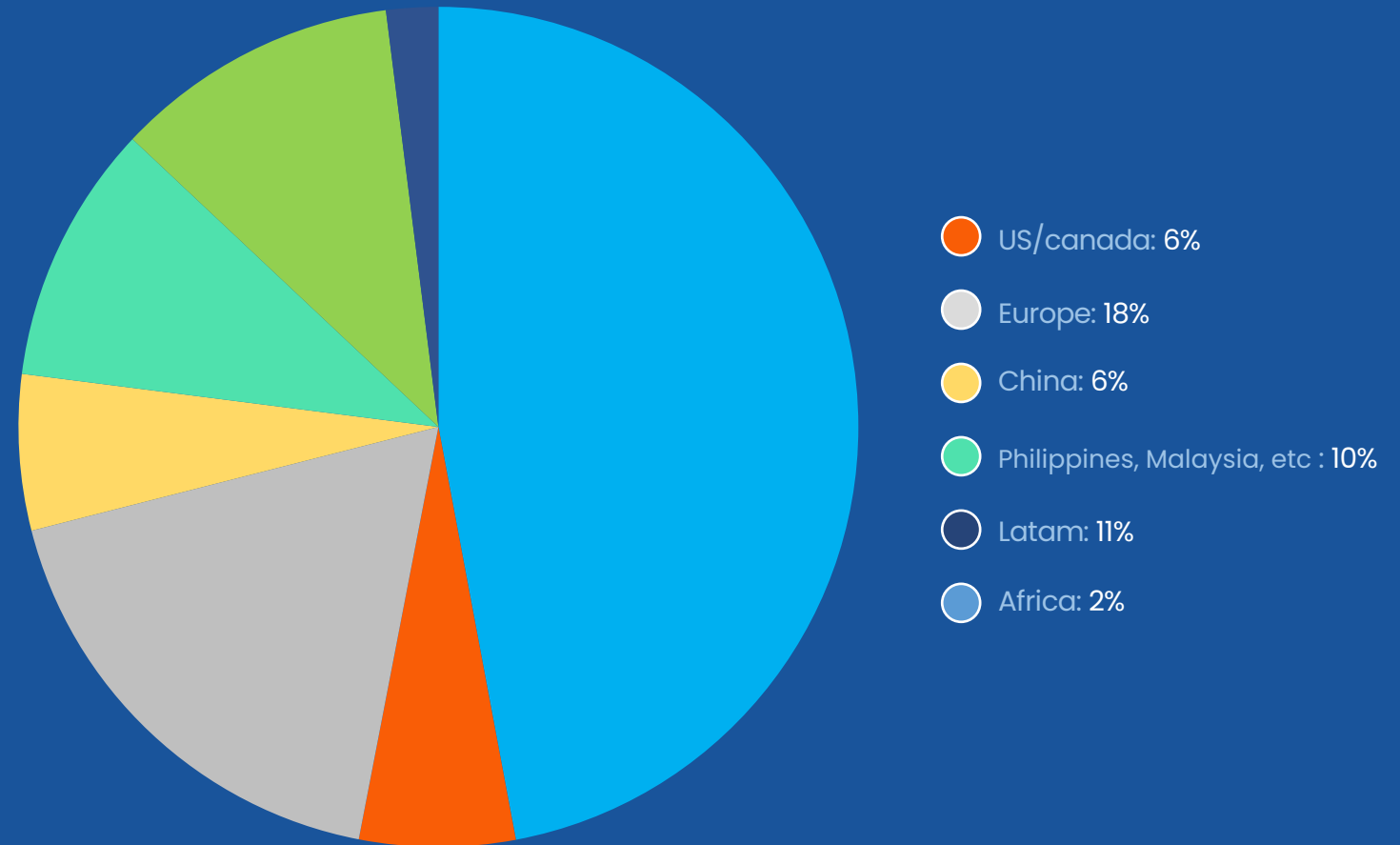
Africa is lagging, except for Nigeria, South Africa, and Kenya. Generally, there is opportunity to scale the new IT & ITES opportunity for Uganda

AFRICA INSIGHTS

IT spent by African companies worldwide is 4%, only 1.5-2% of this is offshoring



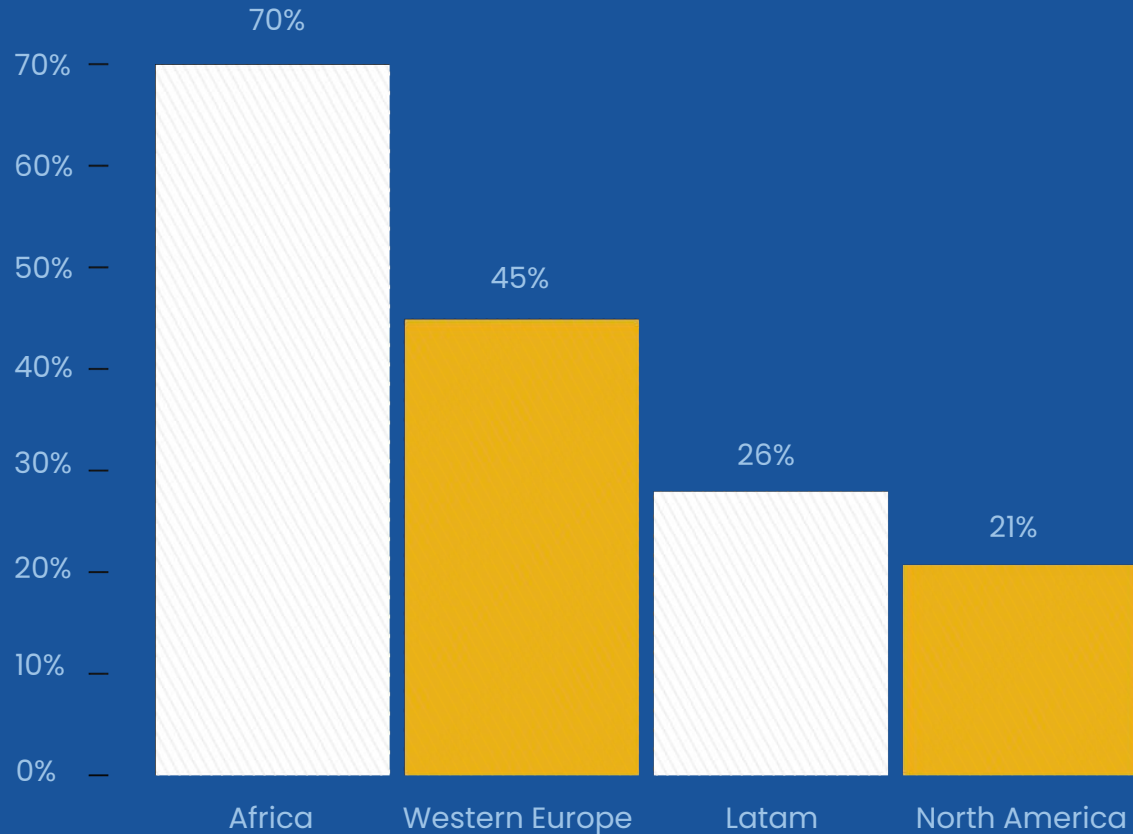
OFFSHORING COUNTRY TENANTS, 2019, ESTIMATES



Source: IDC, Literature research and Ibef.org

AFRICA INSIGHTS

% Content nearshoring



Source: Based on Jensen, P. D. Ø., & Pedersen, T. (2011). The economic geography of offshoring: the fit between activities and local context. *Journal of Management Studies*, 48(2), 352-372; own economic model of offshoring model



AfCFTA may scale the intra-continent trade

Africa Continental Free Trade Agreement (AfCFTA) came into force in May 2019, being ratified by the parliaments of 24 countries. Implementation of the AfCFTA Agreement is set to begin on 1 January 2021

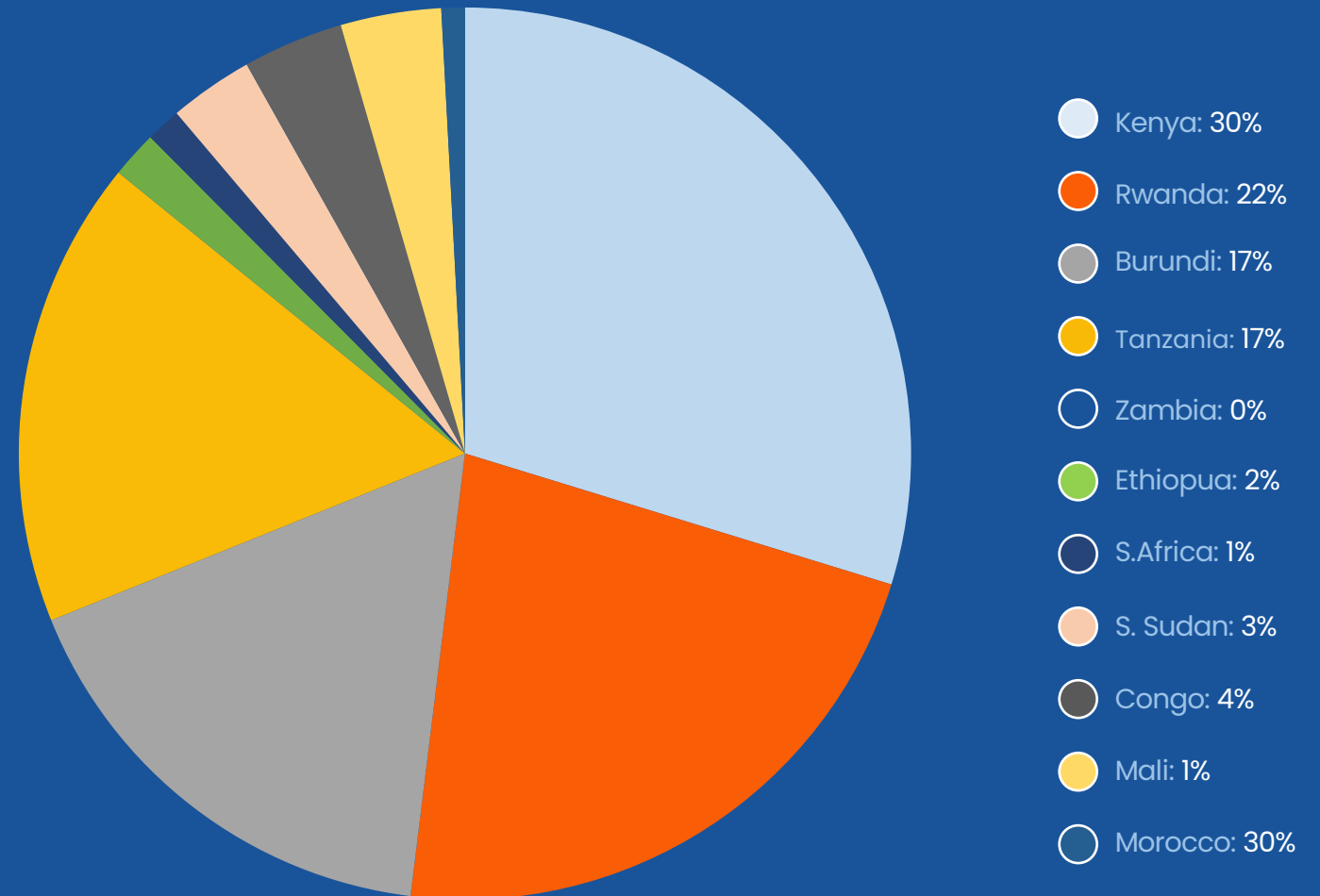
Case study examples of economic integration (such as Central and Eastern European countries joining the EU) suggest that pan-African trade can be boosted by 10-30% depending on the High Tech nature of goods and services

INSIGHTS ON UGANDA

Current African
IT & BPM exports of
Uganda firms, 2019
100% = 3,2% of total
pan African
offshoring



OFFSHORING COUNTRY TENANTS, 2019, ESTIMATES



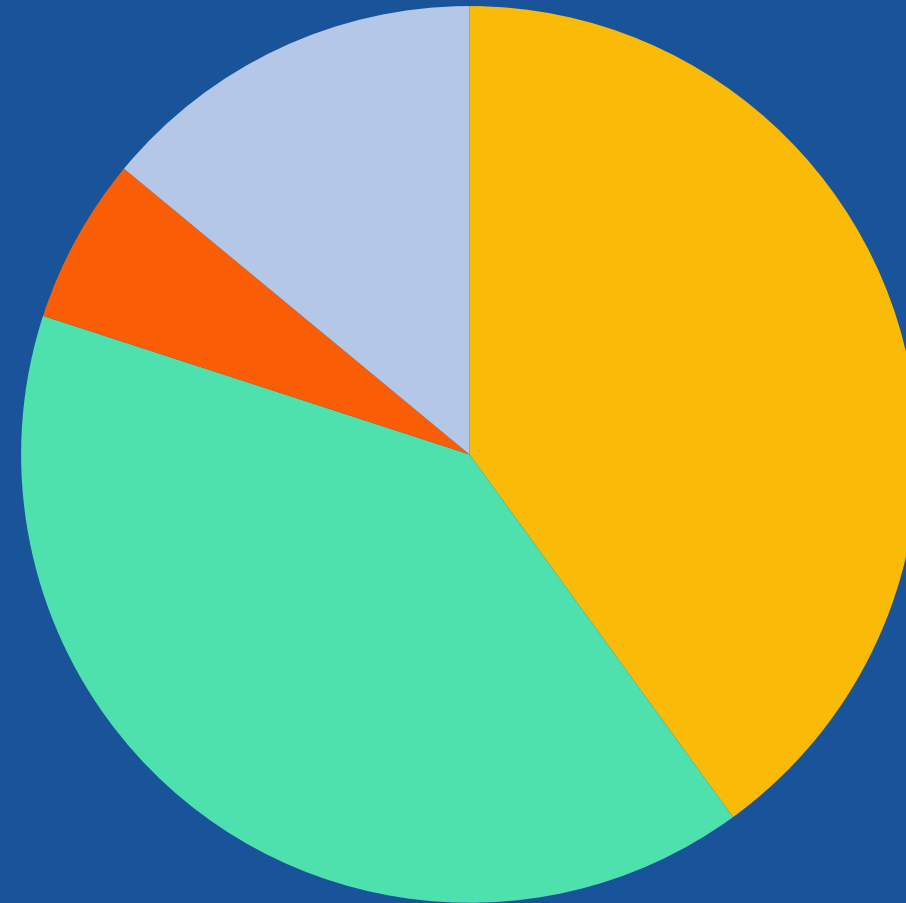
Source: ITC directory Uganda, based on gold list, destination weighted by (employee) size of companies

OPPORTUNITIES FOR UGANDA

The African IT & ITES opportunities for Uganda is split among four segments



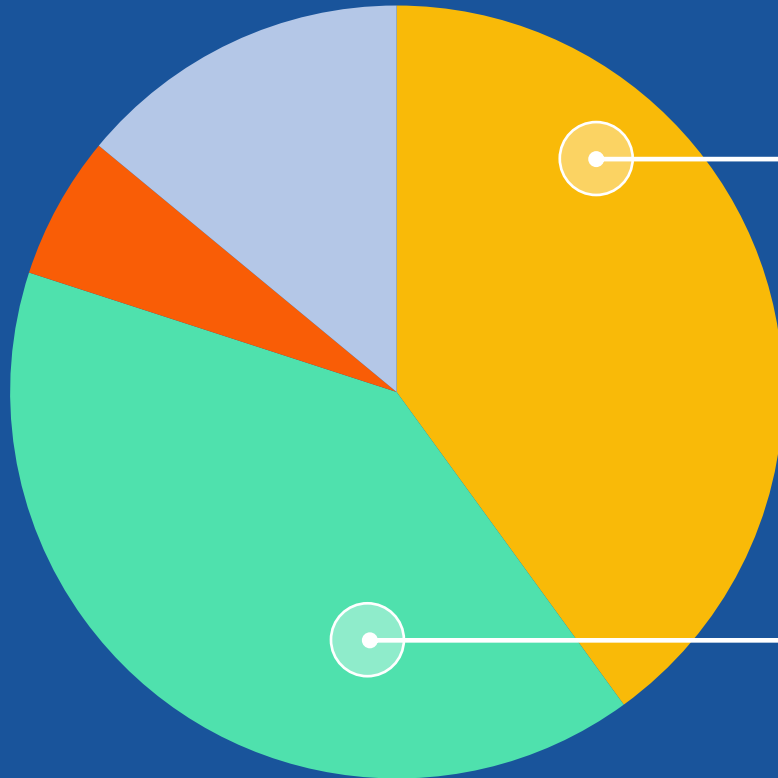
AFRICAN IT & ITES OPPORTUNITIES FOR UGANDA, REVENUE (%)



● Priority: 40% ● Sponsor: 40% ● Opportunist: 6% ● Watch out

UGANDA OPPORTUNITIES

AfCFTA may scale the intra-continent trade



Major countries with high IT demand (Egypt, Morocco, Nigeria)

Cost efficiency is the favorable feature of Uganda

Nigeria and Ghana are a large market that could be a good sponsor for Uganda: seeing that Uganda has the language affinity and is digitally advanced

Can Egypt leverage Uganda as a sub-contractor?

Nearshore countries with a common language (English), but larger market than EAC

South Africa, Kenya, Ethiopia, Tanzania, Botswana, Zambia

Uganda IT offshore advantage is average, USP on cost efficiency and to some extent digital savviness (except in Kenya)

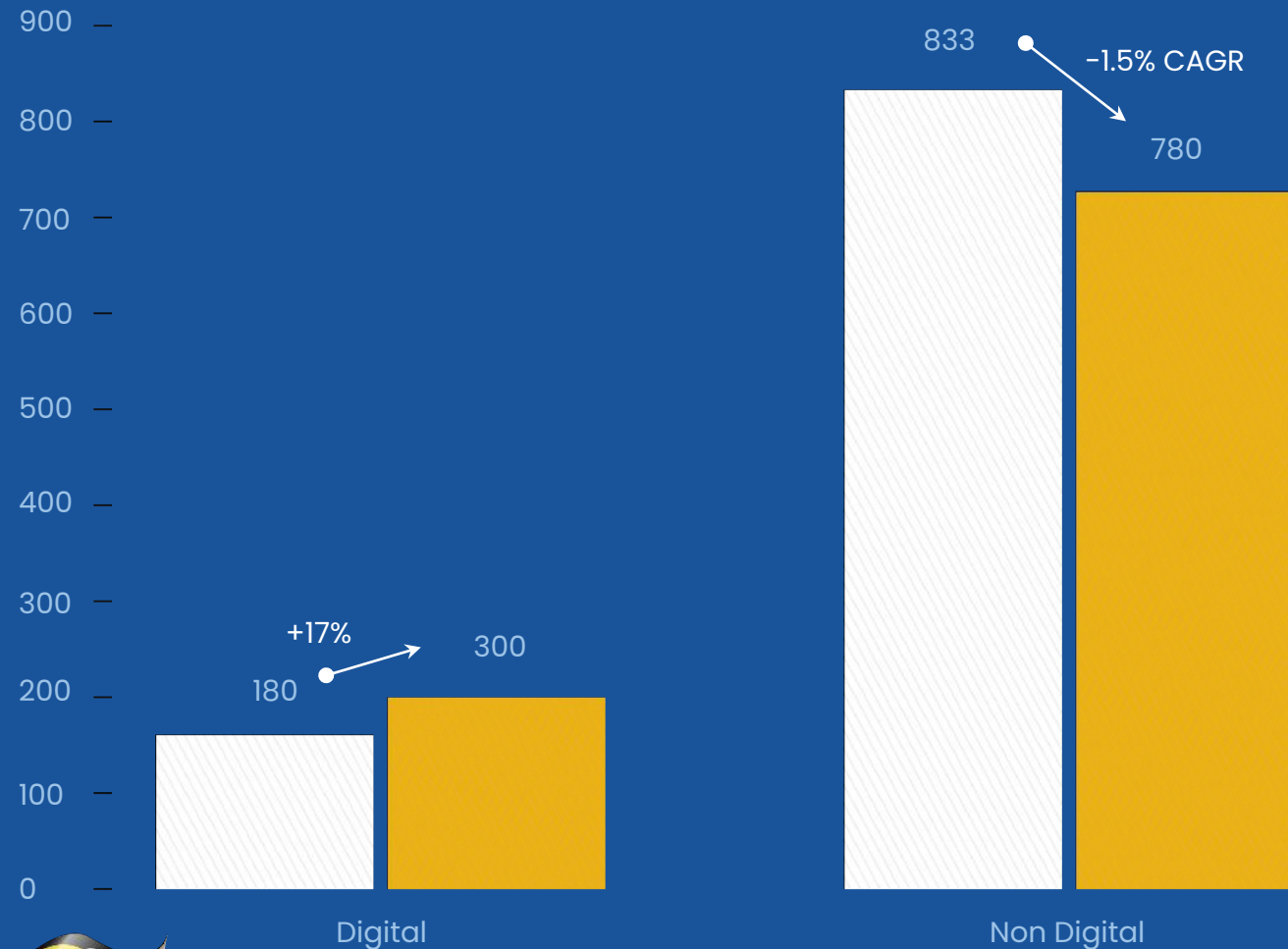
● Priority: 40% ● Sponsor: 40% ● Opportunist: 6% ● Watch out



UGANDA OPPORTUNITIES

Along the way, IT offshoring services are moving to digital

Digital split of total IT spent worldwide, USD billion



Digital IT offshoring spent share grew **from 17% in 2017 to 28% today;**

The digital proportion of Africa's offshoring is about 15% so far*

Source: Based on Ibef.org *extrapolated based on ICT maturity by continents as per World Bank and NRI index



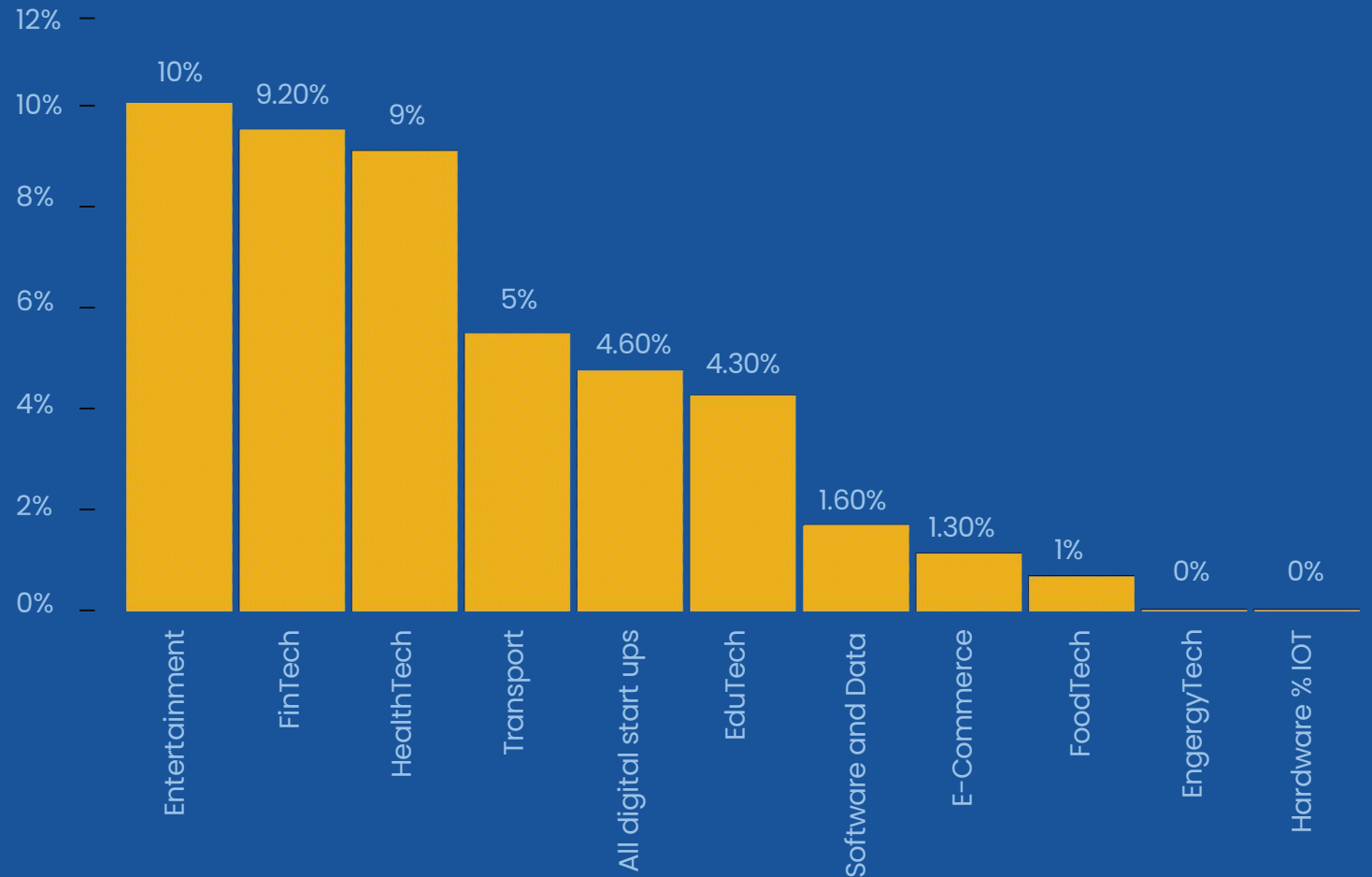
DIGITAL SHIFT

Along the way, IT offshoring services are morphing to digital

● Uganda share in Africa



● Uganda Digital start up specialization

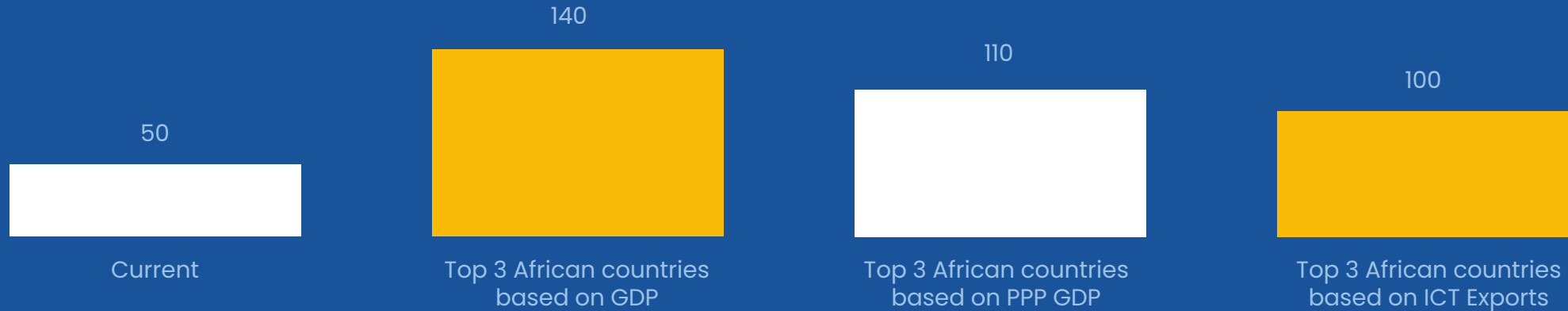


THE AMBITION



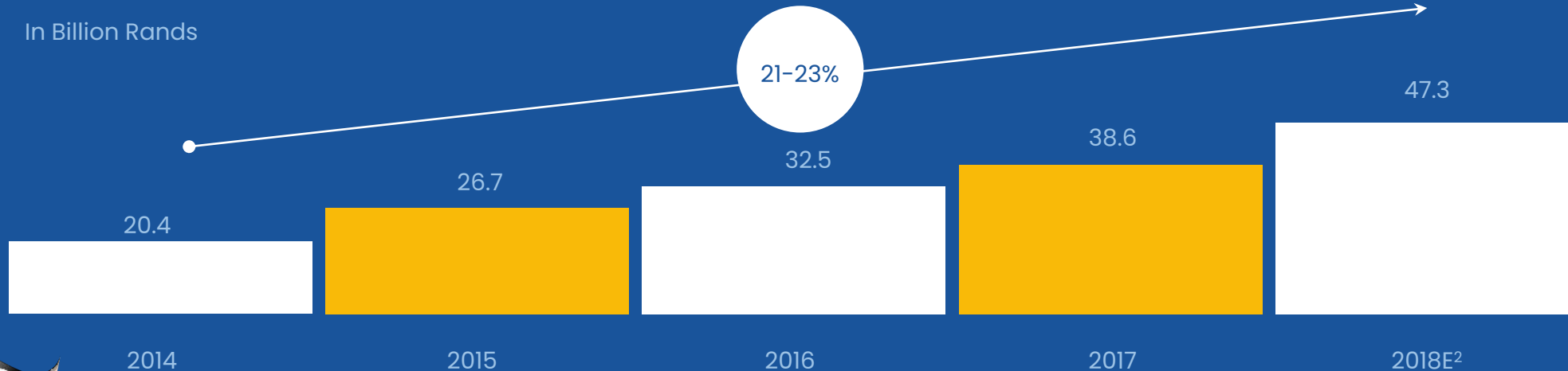
THERE IS POTENTIAL TO MORE THAN DOUBLE THE UGANDA IT & ITES OFFSHORING ON THE AFRICAN CONTINENT

Potential African offshoring, Uganda



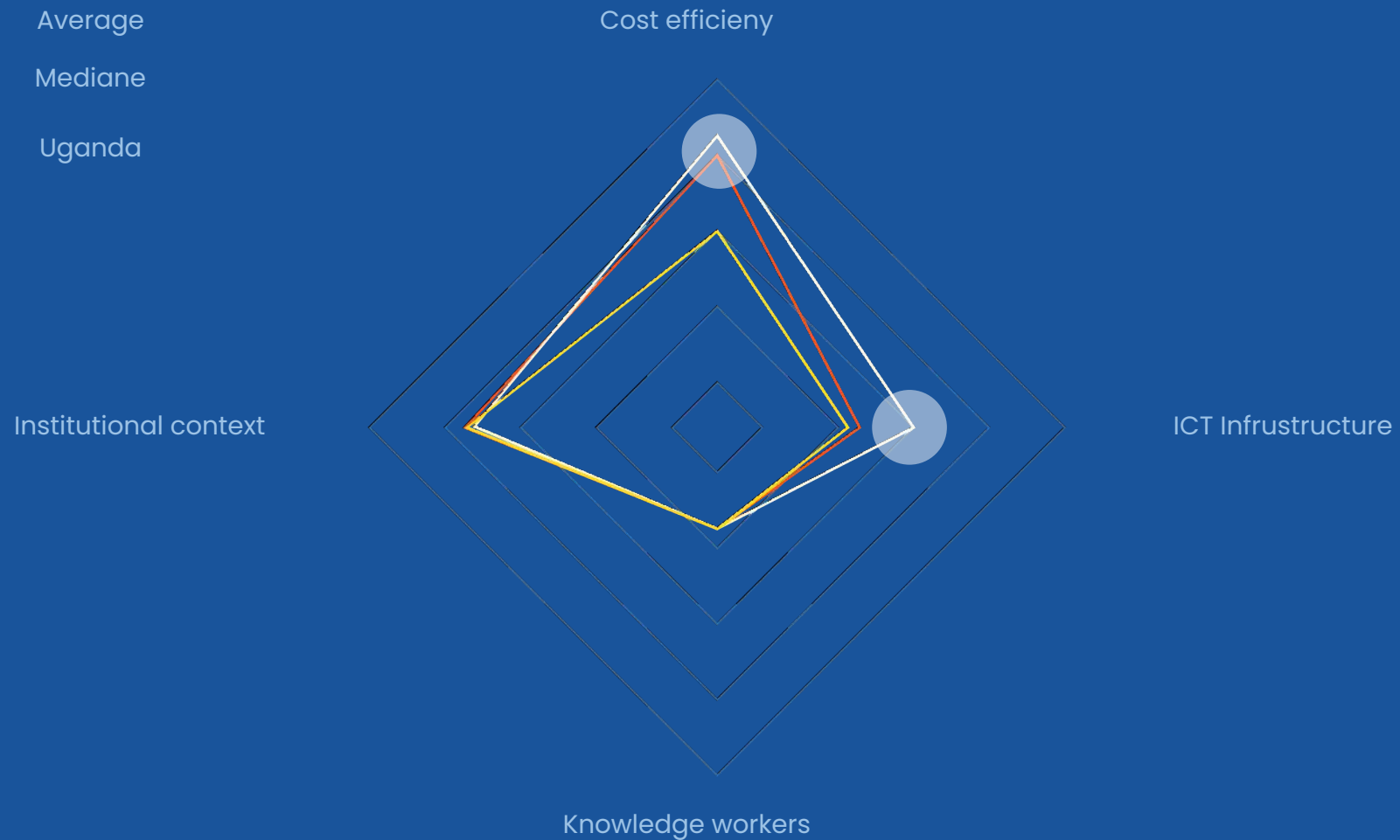
South African Development IT & BPM

In Billion Rands



UGANDA SHOWS A SPIKE ON ICT INFRASTRUCTURE AND COST EFFICIENCY VERSUS THE AVERAGE AFRICAN COUNTRY

UGANDA IT & ITES RANKING



WHILE 12TH LARGEST GDP IN AFRICA, UGANDA RANKED 9TH IN AFRICAN COUNTRIES LINKED TO DIGITAL POTENTIAL

Top 15 countries – African countries ranking



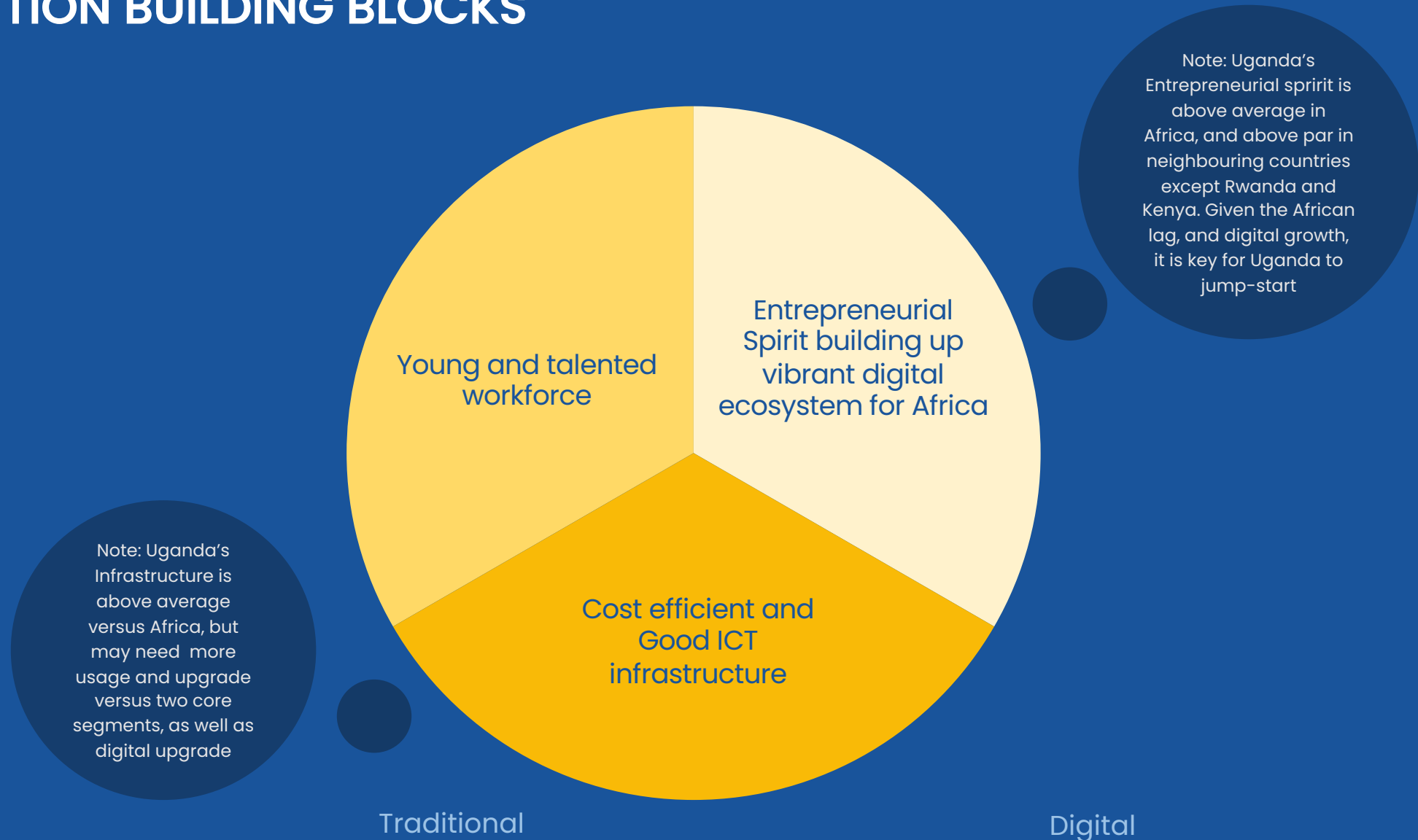
Computed based on ranking of digital start ups and start up funding for digital, on GDP, Innovation and offshoring size.
Sources: TechAfrica, StartupBlink, ILMF, AT Kearney, 2019 data



THE VALUE PROPOSITION



UNLOCKING THE AFRICAN IT & ITES OFFSHORING: THE VALUE PROPOSITION BUILDING BLOCKS



UGANDA'S STRONG FOUNDATIONS : THE PITCH

Cost efficient and
Good ICT
infrastructure

Solid socio-economic story and cost efficient workforce

- 1 Economic growth: growth rate of 6,5%, unemployment rate below 10% (only 3% for youth)
- 2 Competitive labour costs with an average monthly wage of around \$307

Good ICT infrastructure and ICT support by the government

- 1 Mobile phone penetration is large
- 2 Lower smartphone penetration than the other sub-Saharan countries, but catching up
- 3 3G and 4G connectivity with a penetration rate of 78% and 23% respectively in 2018



- 4 Uganda's National Backbone Infrastructure has connected all major towns in Uganda to a fibre-optic cable-based network and is being extended countrywide. The total span of fibre optic cables laid out across the country by both the government and private sector is 5110km, providing seamless connections
- 5 Uganda hosts some IT & BPM "brands" from global players like Techno Brain and iSON, to more regional and local players such as Service Corps, BDE Consult and Exquisite Solution,
- 6 Solid support from trade associations and governments for ICT expansion, e.g. Ministry of ICT and National Guidance, Ministry of Science, Technology and Innovation, National Information Technology Authority-Uganda, ICT Association of Uganda, Alliance for Trade in Information Technology and Service
- 7 IT firms registering for certification
- 8 Government pushing for partnerships with global ICT players, e.g. Google on "Project Link", Microsoft on innovation and skills' ICT sector

UGANDA'S YOUNG AND TALENTED WORKFORCE : THE PITCH

Young and
talented
workforce

A large, young, English-speaking talent pool

- 1 One of the youngest populations in Africa, with 69% of the population under the age of 24;

Literacy

- 1 Large coverage of universities in the country, close to 50
- 2 Youth literacy close to 90% (vs. an average of 50% youth literacy in sub-Saharan countries)
- 3 High quality and employability of workforce according to WEF 2018 Global Competitiveness Index, on a scale of 1 to 7 (7 excellent), Uganda reaches 4.4 out of 7 on the ease of finding skilled workers (on sourcing talent with digital skills)

- 4 Moving digital– e.g active participation in Africa code week for young people aged 8 to 24 in 17 countries including Benin, Botswana, Cameroon, Egypt, Ethiopia, Ivory Coast, Ghana, Kenya, Madagascar, Morocco, Nigeria, Rwanda, Senegal, South Africa, Togo, Tunisia and Uganda.



ENTREPRENEURIAL SPIRIT WITH AN EMERGING DIGITAL ECOSYSTEM : THE PITCH

Entrepreneurial Spirit building up vibrant digital ecosystem for Africa

A young, English-speaking, digitally-savvy, entrepreneurial population:

- 1 One of the youngest population of Africa, with strong English literacy and good digital skills
- 2 Uganda was named the world's most entrepreneurial country by Global Entrepreneurship Monitor.

Uganda's role in forming a regional critical mass for Africa's digital break-out

- 1 Uganda ranked in the top 10 African countries when it comes to the quality and quantity of digital start ups and start up funding
- 2 Uganda is already above average in terms of startup financing (when measured in relation to GDP, or total population)



- 4 Part of a critical-mass regional hub, with Kenya and Rwanda forming other key components
- 5 Slowly investing in B2B software linked to analytics, big data, and automation, as major drivers of digital offshoring

10 ITEMS TO EXECUTE THE ROAD MAP (1/3)

01

Publicly launch the value proposition via a major even.

02

Delegate the charge of IT promotion and representation of the Uganda companies to these stakeholders. A steering group might be formed to monitor and oversee the development of progress on the implementation of the value proposition.

03

Hire a branding agency for a branding and marketing campaign. The branding should be instantly recognizable as referring to the IT & ITES sector. The branding agency will develop the campaign materials and define the rollout, especially with respect to target countries. Leveraging touch points like fares, international events (ITU, etc.) and commercial trade events will also be important.



10 ITEMS TO EXECUTE THE ROAD MAP (1/3)

04

Select a few of the most promising Ugandan companies that fit the value proposition, to serve as ambassadors for the country. Those companies should be recognized officially as IT leaders for the international markets, via a “Uganda label of IT excellence”.

05

The government as the key local driver to develop the digital B2B space, through a list of digital projects, e.g. e-government services

06

Lay the foundation for digital skills upgrading through partnerships with universities as well as digital education programmes like Andela (already present in Uganda) or international programmes like Africa Code Week by SAP



10 ITEMS TO EXECUTE THE ROAD MAP (1/3)

07

Facilitate a conducive business environment for digital companies in Uganda. For example, through a joint public-private fund for digital IT services start ups, with the goal to double the number of hubs, and digital companies

08

Seek a country “sponsor” that may be a major client to scale the IT & ITES sector. As France is for Morocco, US for India, UK for South Africa, Egypt has potential for Uganda. Egypt has had a good tradition of training talents for Uganda; Uganda may revive that, and extend the relationship by making Uganda a sub-contractor of services at a lower price. While challenging, Nigeria may also be investigated as an opportunity for offshoring services by Uganda.

09

Reach out to the Uganda diaspora outside the country, (even in Europe or the UK) –and seek their investment in local IT companies while proactively prepare certification modules for local IT firms



THANK YOU