

# Manufacturing Africa: Consumer electronics manufacturing in Kenya

Sector overview

March 2021



This study has been funded by UK aid from the UK Government; however, the views expressed do not necessarily reflect the UK government's official policies



# Consumer electronics manufacturing in Kenya



## 1. Manufacturing Africa supports investments into Kenya's manufacturing sectors

FCDO's MA programme addresses **Africa's challenges** of a growing labour force and an underdeveloped manufacturing sector by supporting job creation through Foreign Direct Investment into expanding manufacturing

MA provides neutral investment advisory services to **reduce the risk, cost and deal time of transactions** for prospective investors and manufacturers in order to catalyse high-potential scaleup opportunities

Support also includes technical assistance to governments and investment promotion agencies to **improve the business environment**



## 2. The consumer electronics sector is vibrant and growing in Kenya and East Africa

**Consumer electronics spend in Kenya and the region is expected to grow to ~USD 5.1 Bn by 2030**, supported by population growth (~3% CAGR) and income growth (~7% CAGR)

**TVs and fridges are the consumer electronics goods categories with the highest relative regional<sup>1</sup> market size representing ~40% of total consumer spend on consumer electronics** (USD 624Mn for TVs and USD 475Mn for fridges)

**The TV market is dominated by entry-level units** (45% of the regional market), which could reflect the **price sensitivity of consumers**

**For fridges, entry-level to mid-range units represent 60% of the market**, with the mid-range segment dominated by private label brands



## 3. There is potential to build a regional hub for electronics manufacturing in Kenya

There is **limited TV and fridge assembly/manufacturing capacity in Kenya and the region**

Regionally, the combined TV and fridge **demand-production gap could grow to nearly USD 1Bn by 2030**

Potential manufacturers could set up **basic final assembly or integrated manufacturing of TVs and fridges**

Implementation of different enabling initiatives could further improve the attractiveness of manufacturing TVs and fridges in Kenya



## 4. Kenya is a prime destination for manufacturing investments

**Kenya is a leading economy in East Africa, with a GDP of USD 96Bn, growing ~6% over the last decade**

With **GDP per capita in PPP terms of USD 4,500**, Kenya's consumers have a **higher purchasing power than regional peers**

In addition, due to **trade agreements and membership of key trading blocs** including the EAC and COMESA, **Kenya has preferential access to 1.3Bn customers globally**

**Kenya's stable political environment** is a major point of **attraction for investors**, with >35 multinationals choosing to set up their regional and continent-wide HQs in the country

**Kenya has a strong enabling environment for business.** It features as #3 in the World Bank's Ease of Doing Business rankings in Sub-Saharan Africa, has the highest quality education in Africa and a robust digital, road, rail, air and port infrastructure

1. Kenya, Rwanda, Uganda, Tanzania, Burundi, South Sudan, Comoros, Democratic Republic of Congo, Djibouti, Ethiopia, Malawi, Seychelles

2. UK Foreign, Commonwealth and Development Office

# Content



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**4. Kenya is a prime destination for manufacturing investments**

## Manufacturing Africa addresses two of Africa's key challenges

### A growing labour force...



**100%**

increase in  
**population** by 2050



**2x**

increase in **urban**  
**population** by 2050



**18 million**

**new jobs needed a  
year until 2035**

### ...and an underdeveloped manufacturing sector



low manufacturing  
productivity



struggle to move into  
high-value services

# Manufacturing Africa programme overview



## Programme goal

Reduce poverty by attracting £1.2 billion of foreign direct investment and create 90,000 jobs



## Funding

UK Aid



## Duration

7 years (2019-2026)



## Focus sector

Manufacturing



## Implementing consortium


McKinsey & Company, BDO, TechnoServe, Reformatics, Steward Redqueen



## Support provided

Transaction facilitation for investors/ manufacturers; technical assistance to governments/ investment promotion agencies

# Transaction facilitation support – overview








What we do	Who we work with	What support we provide	NON-EXHAUSTIVE
<b>Transaction facilitation (TF)</b>			
 Offer <b>neutral investment advisory</b> services to reduce the risk, cost and deal time of manufacturing transactions	 <b>Manufacturers</b> To secure funding for expansion and working capital	<b>Feasibility</b>  Assess markets  Review business cases	 Technical due diligence
 Introduce potential strategic partners and <b>provide market linkage support</b> to current investment plans	 <b>Investors</b> To de-risk investments in the manufacturing sector	<b>Permits</b>  Clarify regulation	
 <b>Conduct technical, commercial and financial due diligence</b> and strengthen existing business cases	 <b>Industrial parks</b> To attract investment	<b>Financing</b>  Develop investment memos  Identify investors  Commercial due diligence  Capital structuring  Develop strategies to attract tenants	
		<b>Operations</b>  Create market linkages, e.g., identify suppliers and off-takers	

# In Kenya, 4 transactions worth ~USD 65Mn reached financial close, with 25 more actively being supported

NON-EXHAUSTIVE | FIGURES AS AT 17 MARCH 2021

## Sector distribution

% of total potential transactions

	<b>Agro-processing</b> 31%
	<b>Consumer electronics</b> 30%
	<b>Textiles</b> 9%
	<b>Iron and steel</b> 4%
	<b>Vehicles and transport equipment</b> 4%
	<b>Pharmaceuticals</b> 3%
	<b>Others<sup>1</sup></b> 19%

## Details on transactions which have reached financial close

Company	Business description	Transaction size, USD Mn
<b>Organic waste composter</b> looking to build a new facility to produce animal feed and fertiliser	Waste management company which applies the circular economy principle of turning organic waste (incl. human waste) into new products (e.g., fertilizer, animal feed), and drives social impact by reducing urban waste	7
<b>Steel company</b> looking to expand its operations	Established steel manufacturer in Kenya specialising in the production of hot-rolled steel products	17 Financed by IFC
<b>Dairy manufacturer</b> looking to expand	Dairy manufacturer aiming to roll out new product category and cold chain logistics	35
<b>Cleaning chemicals company</b> looking to expand production line	Contract manufacture of soaps, detergents, chemicals and cleaning solutions aiming to expand production of key ingredients for sanitisers	5.5
		Total = 64.5

1.Includes sectors such as rubber and plastics, building materials, chemicals, other electronics and waste management

# 4

Transactions reached financial close

# 25

transactions actively being supported

# ~USD

# 965Mn

Total value of transactions

Currently supported

# 20,000+

Potential jobs created or protected

# Technical assistance support – overview

## What we do

## Who we work with

## What support we provide

NON-EXHAUSTIVE



Provide **COVID-19 response and recovery support** to the manufacturing sector



Provide **assistance and training to investment promotion agencies**, strengthening governments' capacity to profile investment opportunities and facilitate deals



Support **policy changes at the sector level** to remove obstacles to investment and attract investors



Run **sector-wide strategic initiatives to help groups of manufacturers** improve project feasibility



**Governments**



**Investment promotion agencies**



**Donors**

### Capacity building

- Build HR and skill capabilities at investment promotion agencies (IPAs)
- Enhance investment processes at IPAs (e.g. design digital marketing tools)
- Improve relationships between government stakeholders in investment ecosystem

### Policy reform

- Support policy changes sector-level to remove recurrent barriers to investment and attract investors
- Engage IPAs, EPZs, customs and tax authorities, and industrial parks to co-develop policy reform frameworks

### Strategic investment promotion

- Undertake sector-wide strategic initiatives to help groups of manufacturers improve project feasibility
- Design RFP processes to grow existing sectors or stimulate new ones
- Support value chain development



# Content



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3. There is potential to build a regional hub for electronics manufacturing in Kenya

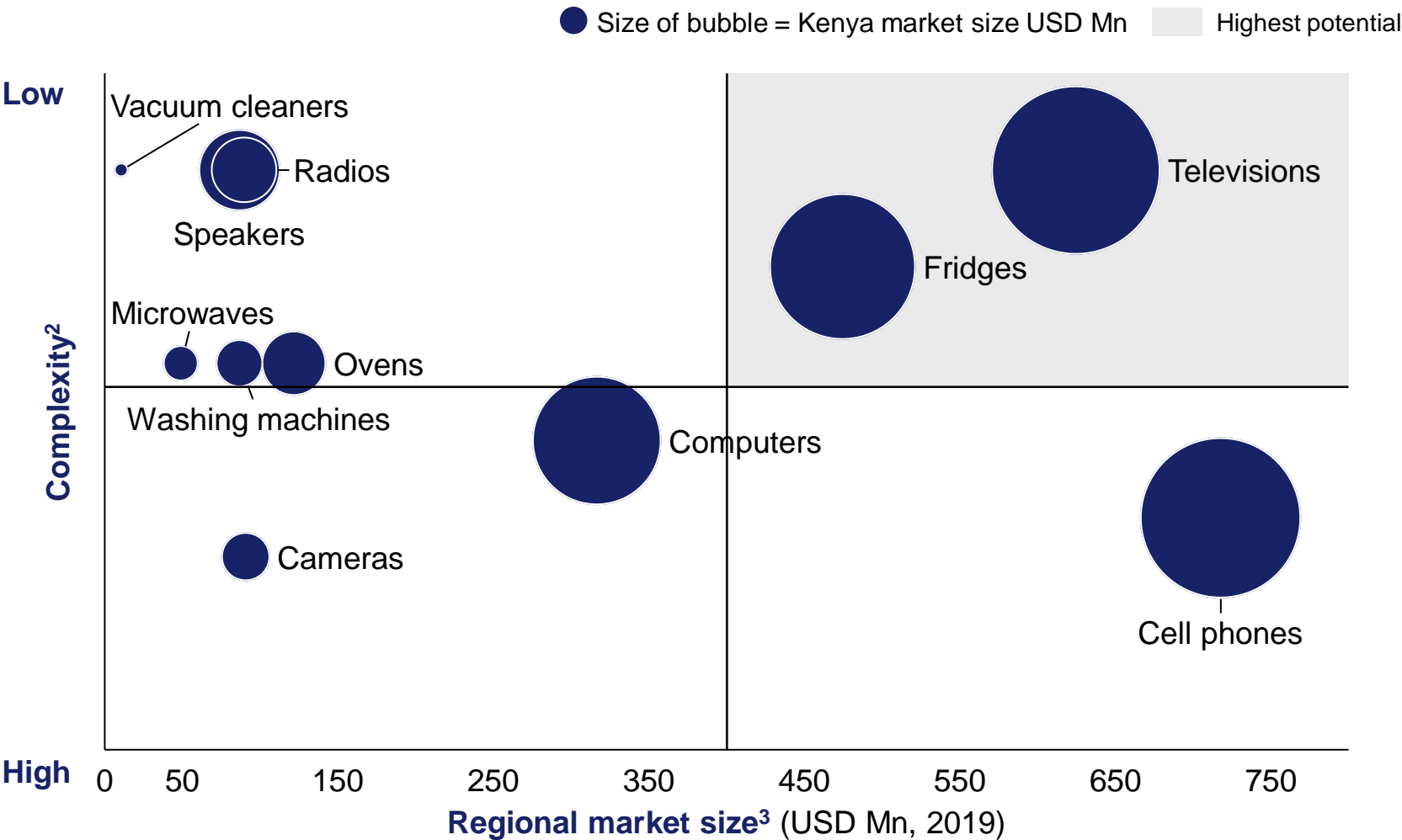


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4. Kenya is a prime destination for manufacturing investments

# TVs and fridges are the consumer electronics goods with highest potential for manufacturing scaleup in the region

Assessment of scale up potential for consumer electronics goods<sup>1</sup>



## Key insights

**TVs and fridges** have high relative market sizes (televisions USD 624M and fridges USD 475Mn) with low complexity (i.e., high ease of assembly)

Despite relatively smaller market sizes, other categories such as radios, washing machines, ovens and microwaves exhibit low complexity

1. Consumer electronics include personal devices and home appliances

2. Qualitative assessment based on level of automation required, number of parts, expertise required

3. Includes Kenya, Uganda, Rwanda, Tanzania, Burundi, South Sudan, Comoros, Djibouti, Ethiopia, Malawi, Seychelles, Democratic Republic of Congo

# TVs and fridges constitute 41% of total USD 2.7Bn regional spend on consumer electronics

Distribution of consumer electronics spend

Category	Consumer electronics spend <sup>3</sup> , 2019 USD Mn			Market size, USD Mn	Kenya share of spend, %	Category share of spend, %
Cell phones	294	296	128	718	18	27
Televisions	259	224	141	624	23	23
Refrigerators	197	172	106	475	22	18
Computers	133	101	83	316	26	12
Ovens	50	51	21	90	24	3
Cameras	42	12		122	17	5
Radios	37	21	22	91	13	3
Washing machines		11		87	38	3
Speakers	37	16	33	87	13	3
Microwaves	20	23	6	49	13	2
Vacuum cleaners	5	1	4	11	10	0
				<b>Total 2,668</b>	<b>Average 21</b>	

1. Other COMESA includes Comoros, D.R Congo, Djibouti, Ethiopia, Malawi, Seychelles; COMESA countries in closer proximity to Africa's main consumer electronics hubs, Egypt and South Africa were not included. These include Eritrea, Libya, Madagascar, Mauritius, Sudan, Swaziland, Zambia and Zimbabwe
2. Rest of EAC includes Rwanda, Uganda, Tanzania, Burundi, South Sudan
3. Import data used as a starting point for calculating spend; trade value multiplied by a factor of 1.5 to estimate consumer spend (50% increase covers customs duty, VAT & margins across the value chain); Country GDP used to triangulate market sizes in some instances. 2019 figures used vs. 2020 to isolate temporary impact of COVID-19

Source: ITC Trade data

## Key insights

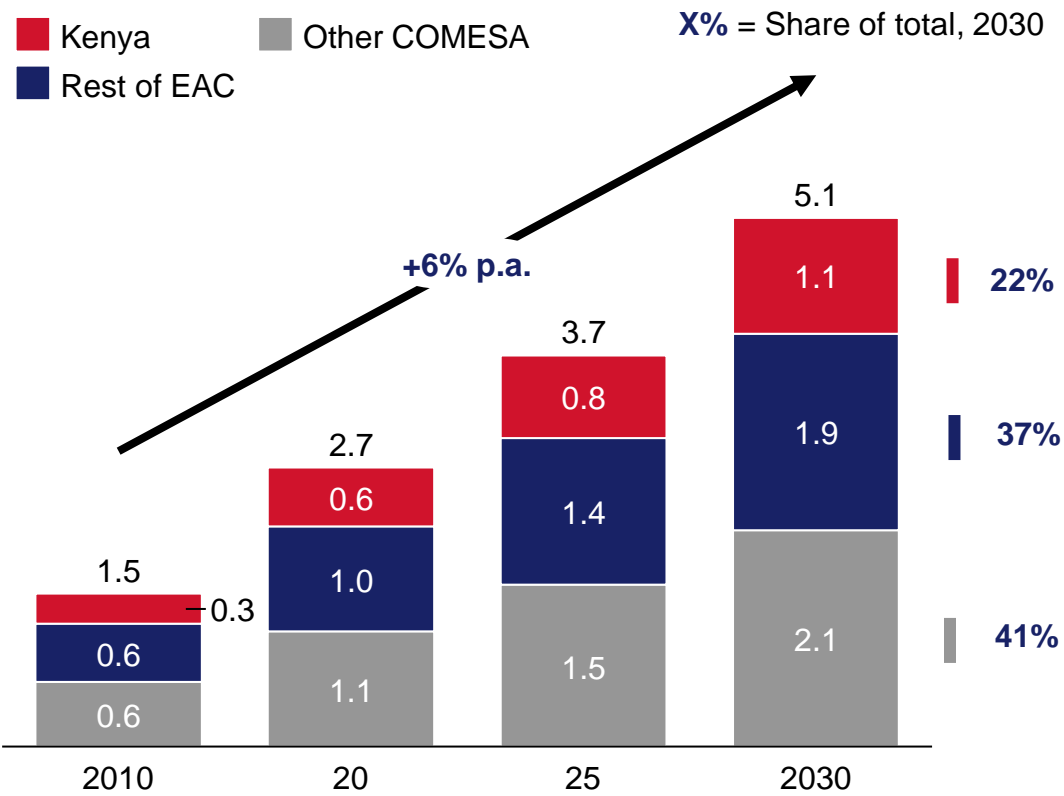
Kenya accounts for 21% of total regional spend on consumer electronics

Combined TVs and fridges market size is **USD1.1Bn**

# Total spend on consumer electronics expected to reach USD 5.1Bn in the region by 2030<sup>1</sup>

Growth in consumer electronics spend in Kenya and the region is expected to continue

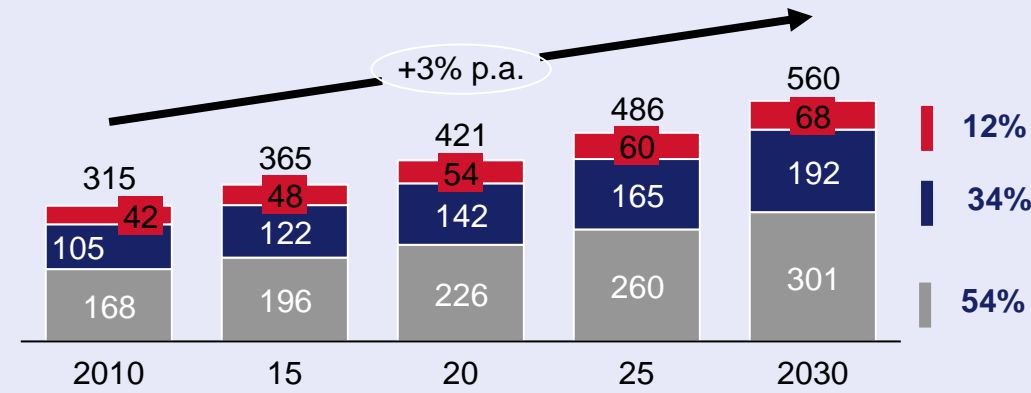
Projected consumer electronics spend, USD Mn



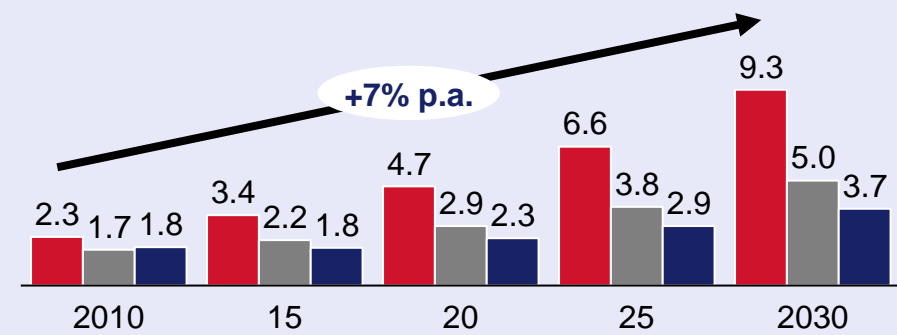
1. Assuming consumer electronics spend grows at the same rate over the next decade as previous decade  
2. Purchasing power parity; Seychelles GDP per capita excluded from simple average for COMESA as it is an outlier (>5X regional GDP per capita and a population of <100k people)

Growth is supported by population (3% CAGR in the region) and income growth (7% CAGR in Kenya)

Projected population, Mn

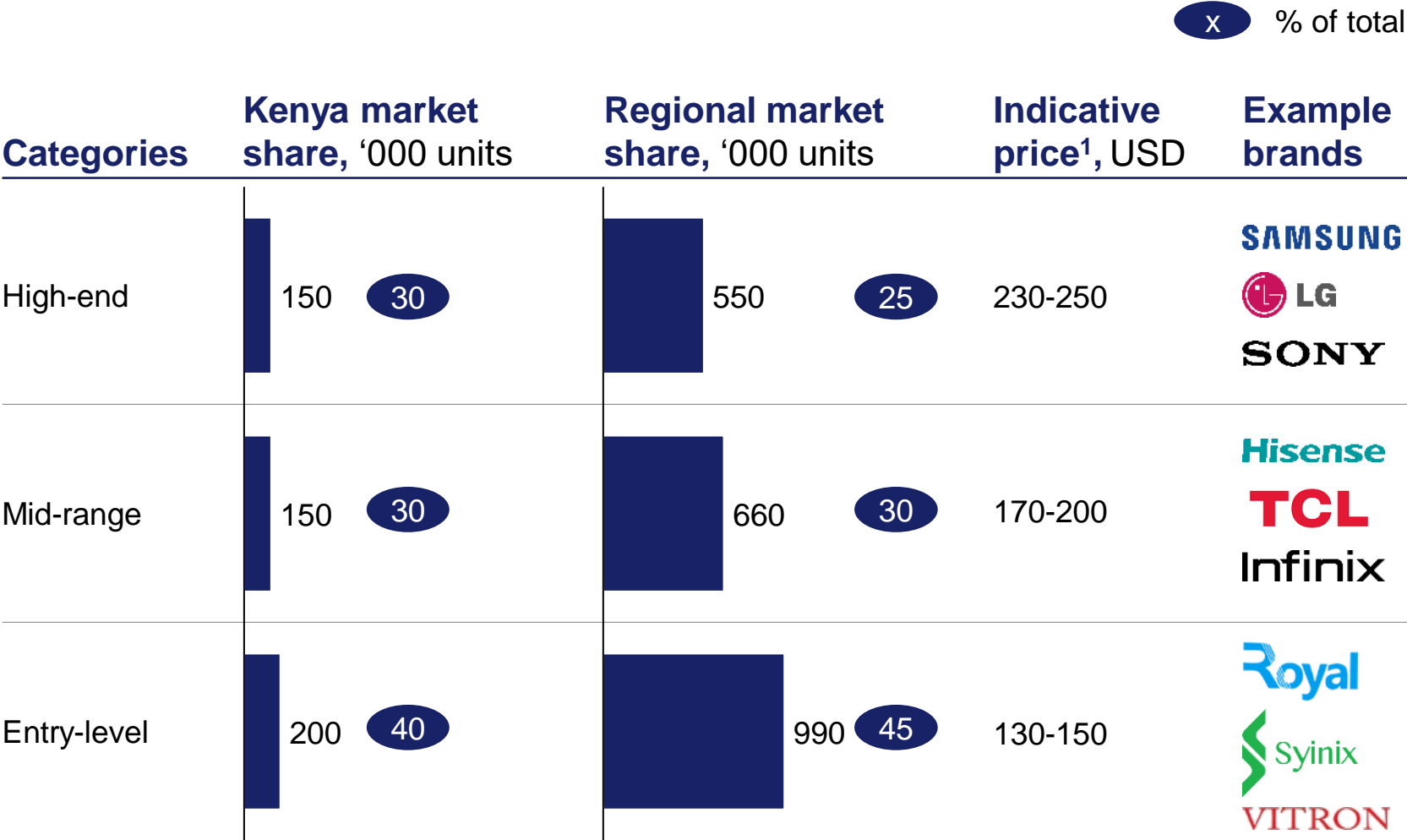


Projected average GDP per capita PPP<sup>2</sup>, USD '000



# 45% of the regional market for TVs is in entry-level units

Market share of TV categories in Kenya and East Africa region



## Key insights

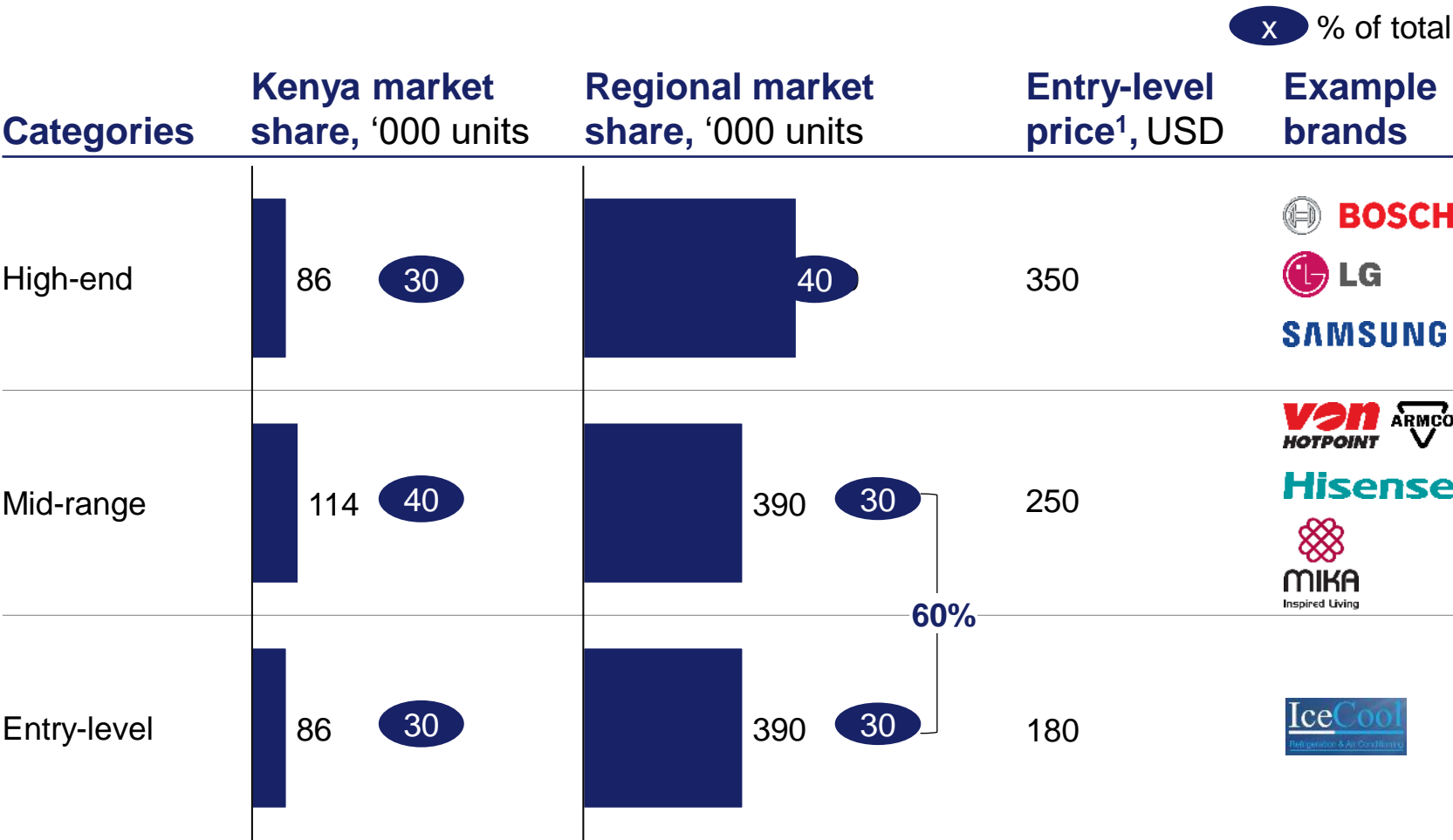
Predominance of entry-level brands could reflect the price sensitivity of customers

High-end brands have a slightly higher market share in Kenya compared to the region, potentially due to higher customer purchasing power in Kenya

1. Prices are indicative for a basic 32" TV

# 40% of the regional market for fridges is in high-end units

Market share of fridge categories in Kenya and East Africa region



## Key insights

- Higher market share of high-end brands in the region compared to Kenya could be driven by lower availability of lower priced private-label brands outside of Kenya
- 60% of the fridge market in the region is in entry-level and mid-range brands
- The mid-range brand segment is dominated by local private label brands

1. Entry-level prices are representative prices for double-door, top freezer, 120 litre capacity fridges or smallest available capacity

# Content



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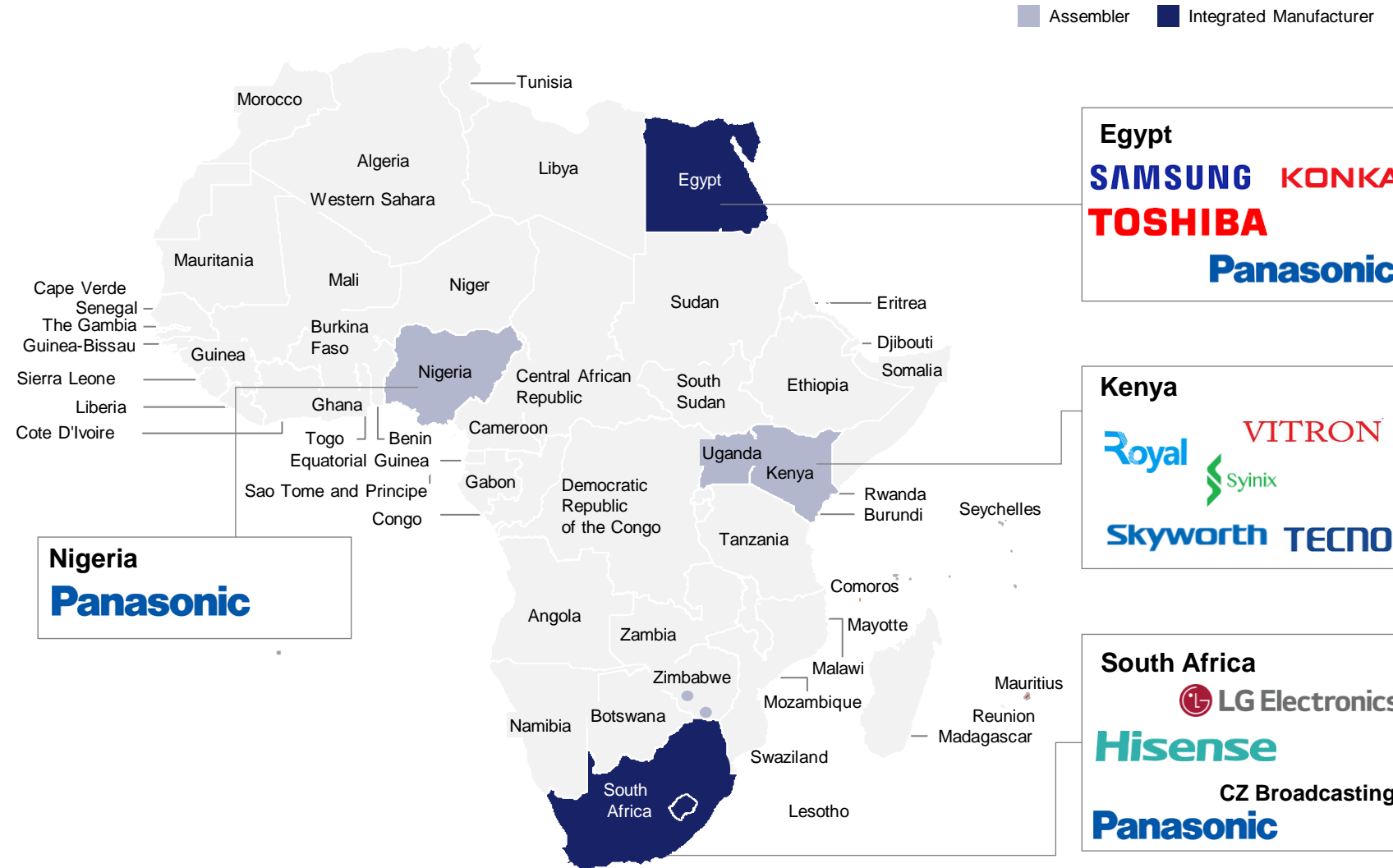


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**4. Kenya is a prime destination for manufacturing investments**

# TV manufacturing in Africa is limited, with only basic assembly capacity present in East Africa

TV manufacturing and assembly plants in Africa (not exhaustive)



Source: Expert interviews, press search

## Key insights

**Egypt and South Africa** are currently the only countries with integrated manufacturing of TVs in Africa

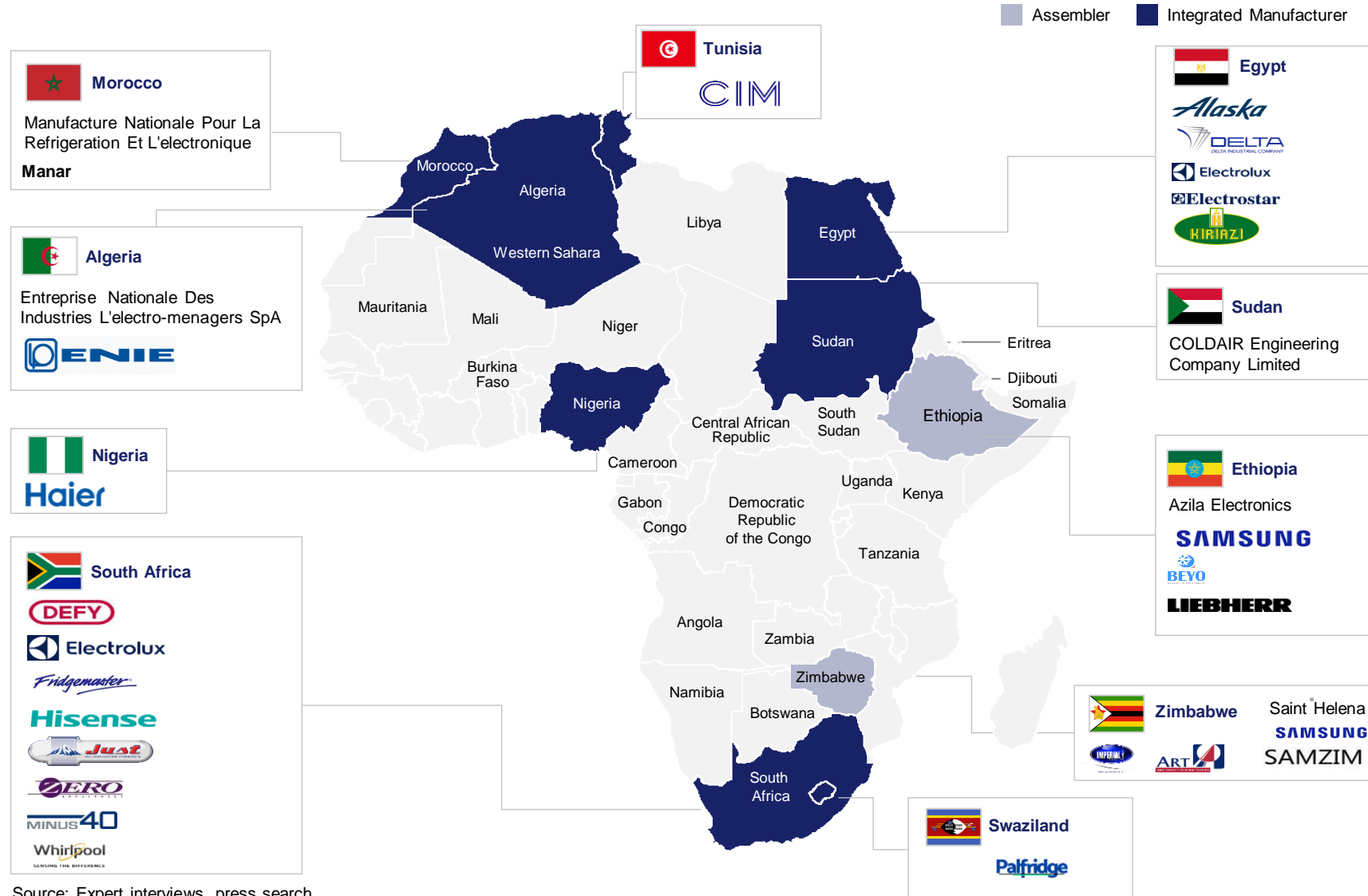
Manufacturers in these countries serve primarily **COMESA, Middle Eastern (Egypt) and SADC** countries (South Africa)

**Basic assemblers** in Kenya, Uganda and Nigeria are largely **brands focusing on the lower end of the market**



# Fridge manufacturing has a greater footprint on the continent, but little exists in the East Africa region

Fridge manufacturing and assembly plants in Africa (not exhaustive)



Source: Expert interviews, press search

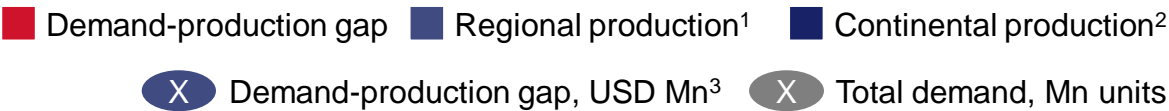
## Key insights

**Samsung and Liebherr** are the only global brands with presence in the EAC

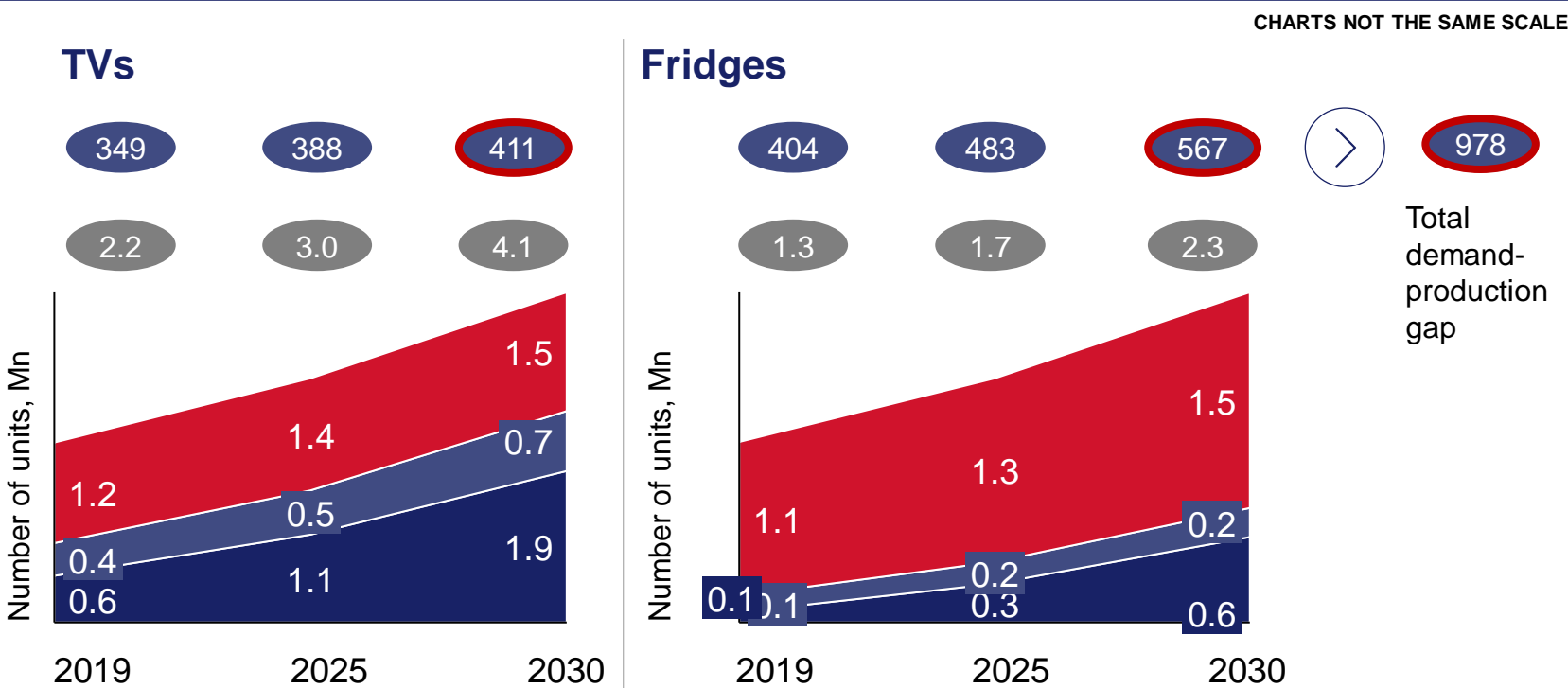
**Smaller local brands** primarily serve their domestic markets and immediate neighbours

**Global brands** primarily serve broader regional blocs e.g., COMESA and SADC

# Regionally, the combined TV and fridge demand-production gap could grow to nearly USD 1Bn



## Regional demand and production, Mn units



1. Regional production includes assembly and integrated manufacturing performed in target countries. Regional production for TVs and fridges is estimated at 18% and 9% based on expert input

2. Continental production includes imports from Egypt and South Africa. In 2019, imports of TVs and fridges represented 26% and 6% of total demand. Imports from the 2 countries have been estimated to grow by 2ppts/ year based on historical growth

3. Average consumer price per unit of TV and fridge estimated at USD 280 and USD 375 respectively

4. Kenya, Rwanda, Uganda, Tanzania, Burundi, South Sudan, Comoros, D.R. Congo, Djibouti, Ethiopia, Malawi, Seychelles

## Key insights

By 2030, there could be an **import substitution opportunity of USD 978Mn** driven by the widening gap between demand & production for TVs and fridges





**The production gap takes into account regional production** (i.e., units manufactured in EAC and selected COMESA countries<sup>4</sup>) and **continental production** (i.e., units manufactured in Egypt and South Africa)

Both Egypt and South Africa addressed this gap in their respective markets by innovating local manufacturing

# Implementation of enabling initiatives could further improve the attractiveness of manufacturing TVs and fridges in Kenya

● Low ● High

NOT EXHAUSTIVE

Revenue/ cost driver	Enabling initiatives	Description	Impact <sup>1</sup>	Ease of implementation
 <b>Sourcing of components</b>	<b>Import duty</b>	<b>Review current duty rates for CKD and SKD components</b> , e.g. in Egypt, there is 0% Custom's duty on imports of CKD components for electronics manufacturing	●	●
	<b>Port protocols</b>	<b>Strengthen Custom's duty and VAT compliance at the port</b> by reducing incidents of under-declaration which could disadvantage potential assemblers and manufacturers	●	●
 <b>Operations</b>	<b>Tax holidays</b>	<b>Evaluate tax holidays</b> for setting up manufacturing facilities	●	●
 <b>International shipping</b>	<b>Access to regional markets</b>	Strengthen bilateral agreements with regional neighbours to improve access to EAC and COMESA markets	●	●
 <b>Finance</b>	<b>Financing options</b>	Offer <b>cheaper financing options</b> for potential assemblers and manufacturers to improve financial attractiveness of investment	●	●
 <b>Labour</b>	<b>Labour upskilling</b>	<b>Train workers</b> to meet skills gap in manufacturing industry and ensure a pipeline of talent	●	●

1. Impact on attracting further investment into the space

# Content



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**4. Kenya is a prime destination for manufacturing investments**

# Why invest in Kenya?

## A go-to market for foreign investment, and a gateway to Africa



### Fast growing economy with access to large global market

USD 96Bn economy growing at ~6% per annum over the last 5 years

Highest consumer purchasing power in the region, USD 4.5k GDP per capita (PPP)

Preferential access to 1.3Bn customers and USD 29Tn in GDP through trade agreements



### Robust infrastructure

Strong digital infrastructure with 100% Mobile penetration

Strong port infrastructure: largest port in East Africa, with greater efficiency compared to peer ports in the region

Robust road, rail and air transport links with >USD 11Bn in recent road & rail projects



### Stable political and macro-economic environment

Rated #1 in East Africa in the Economist Intelligence Unit's Global Democracy Index

Track record of democratic transitions and policy continuity



### Conducive ease of doing business environment

#3 in Sub-Saharan Africa in World Bank's Ease of Doing Business rankings

# 6 in Sub-Saharan Africa in the Global Competitiveness Index



### Young, educated, and competitive workforce

#1 in quality education in Africa according to World Economic Forum ranking with 100% primary completion rate

~USD 400/monthly net wage, 25% lower than South Africa's

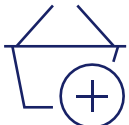
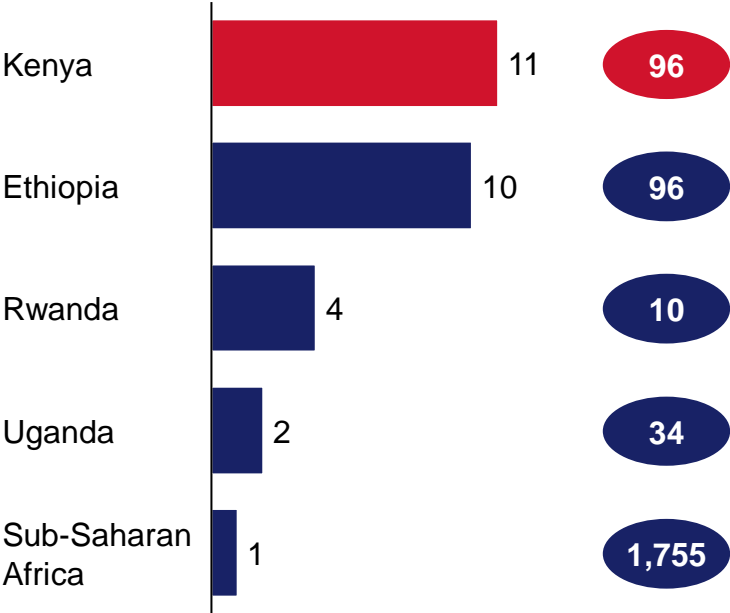
# Kenya provides a ready market for investors, with access to a large global market and a domestic market with high purchasing power

xx GDP, USD Bn



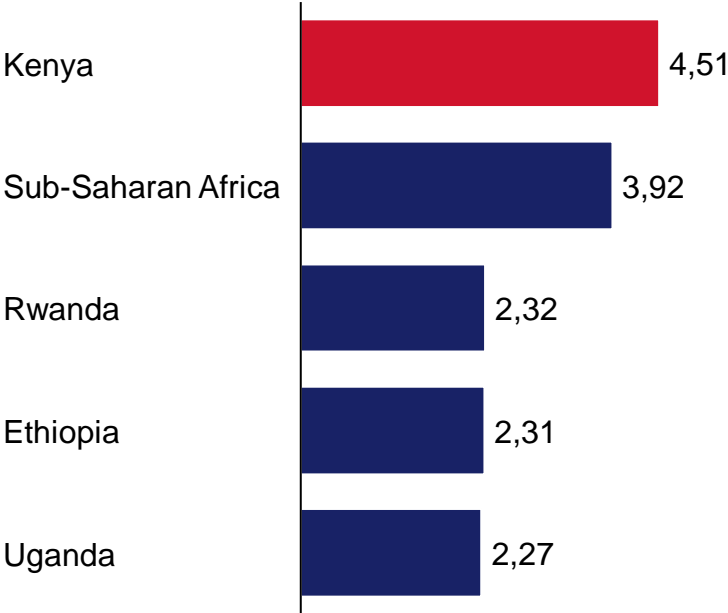
## Fast growing economy in East Africa

CAGR GDP, 2015-19 (%)



## High purchasing power compared to regional peers

GDP per capita, PPP<sup>1</sup> ('000 USD )



## Preferential access to USD 29 Tn and 1.3 Bn customers in global market agreements



### Common Market for Eastern and Southern Africa (COMESA)

Customs Union agreement spanning 19 African countries



### East African Community (EAC)

Customs Union & Economic Integration Agreement



### The African Growth and Opportunity Act (AGOA)

Gives select African countries enhanced market access to the U.S

1. Purchasing power parity (PPP)



# Kenya has robust infrastructure, making it an ideal hub for business in the region



## Digital infrastructure

### 100% Mobile penetration

With >85% internet penetration

### #4 in the world in the Mobile Payments Readiness Index

M-PESA, Mula, PesaLink are world leaders in financial inclusion



## Road, Rail, and Air

### Highest road density in the region

>USD 11bn dedicated recently to rail and road infrastructure projects

### 4 International airports

JKIA 2<sup>nd</sup> fastest-growing airport for cargo handling globally

**The Ministry of Industrialization, Trade and Enterprise Development has set up a Business Situation Room to unlock investments and evaluate enabling initiatives in priority sectors including consumer electronics manufacturing**



## Port Infrastructure

### Efficient export process

Mombasa, largest port in East Africa and is a hub in the region

### Efficient export process

30% higher gross port productivity than Dar-es-Salam



## Industrial Parks

### 40 export processing zones

Active and in development EPZs Nairobi, Mombasa, Voi, etc.

### Fast developing SEZs

World-class SEZs in Naivasha, Mombasa, Lamu and Kisumu at different stages of development

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