

5G and IoT in an African Context

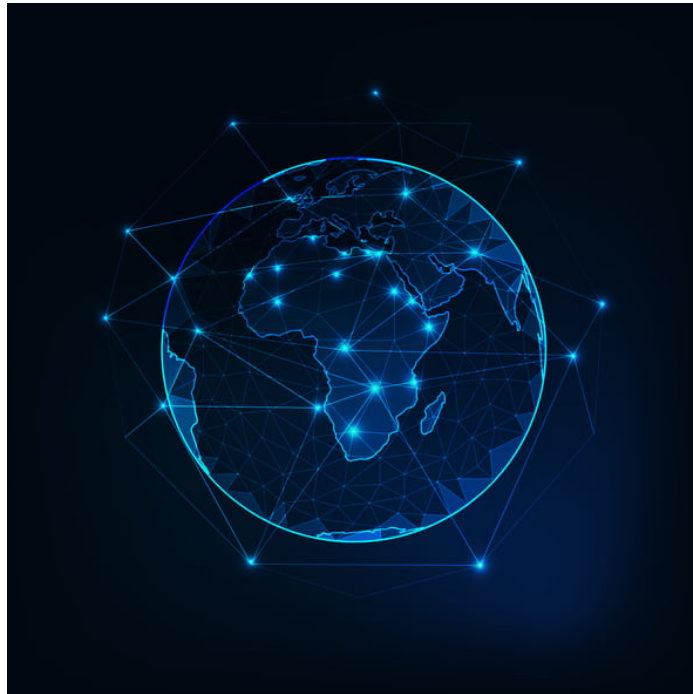
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Introduction

Click below for an introduction to the
report

Contents

- Business and social drivers towards IoT and 5G
- Mapping the ecosystem for B2B 5G –IoT apps are at the fore
- Enterprise 5G IoT strategies and competitors



About the Researchers:

Connect the dots across the entire tech ecosystem to better predict and shape your business outcomes

Omdia is the new global technology research powerhouse, established in 2019 with the combination of the Informa Tech's research brands (Ovum, Heavy Reading, and Tractica) and the acquired IHS Markit technology research portfolio.

Omdia combines the expertise of more than 400 analysts covering 150 markets and thousands of technology, media, and telecommunications companies, publishing over 3,000 research reports a year, reaching over 14,000 subscribers.

Omdia helps businesses make better technology choices: saving money, saving time and managing their technology risk. For technology vendors and service providers, Omdia drives top and bottom-line growth through improved market strategy, product investments, and go-to-market effectiveness.



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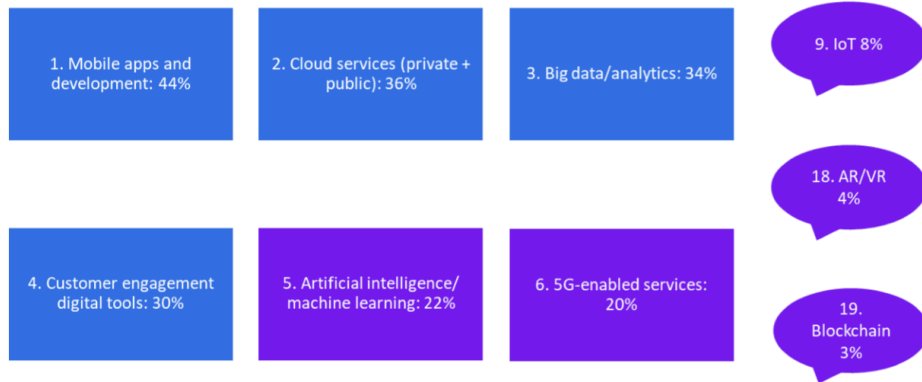
Digital technologies in demand in Africa now: 5G and IoT not yet priorities

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Digital technologies in demand in Africa now: 5G and IoT not yet priorities

- African businesses are conservative, and in that way are like many businesses globally.
- The priority is squarely on the fundamentals: cloud, mobile, and doing more with data, as well as improving the customer experience.
- 5G and IoT are secondary to these priorities.

Technology investment priorities in the next 12 months (choose top 2)



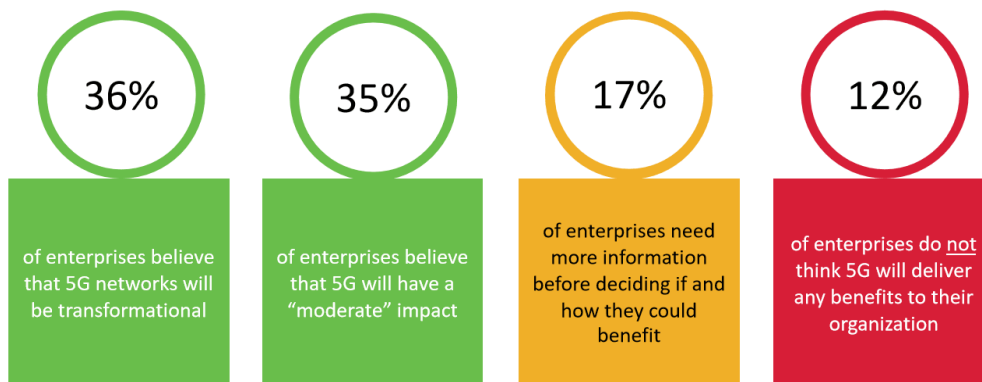
Expectations for 5G

Click below to read

5G: Global expectations are muted (global findings)

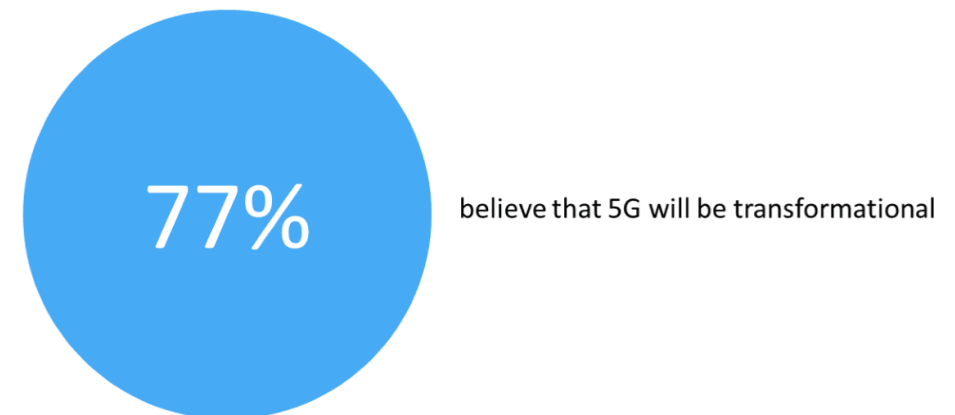
- Globally, about 71% of businesses think 5G will have a moderate or transformational impact.
- It is clear that it will take more time to convince businesses outside of Africa of the transformational potential of 5G, but already we do see the number of 5G enterprise deals and partnerships growing.

How transformational do you consider 5G to be?



But Africans are much more positive about 5G's transformative potential

- In sharp contrast, African businesses are big believers in the potential 5G has to radically transform their business operations, products, services, and customer engagement.
- We believe this result showcases a willingness among African organizations to embrace new technologies. Translating this into uptake is the challenge.



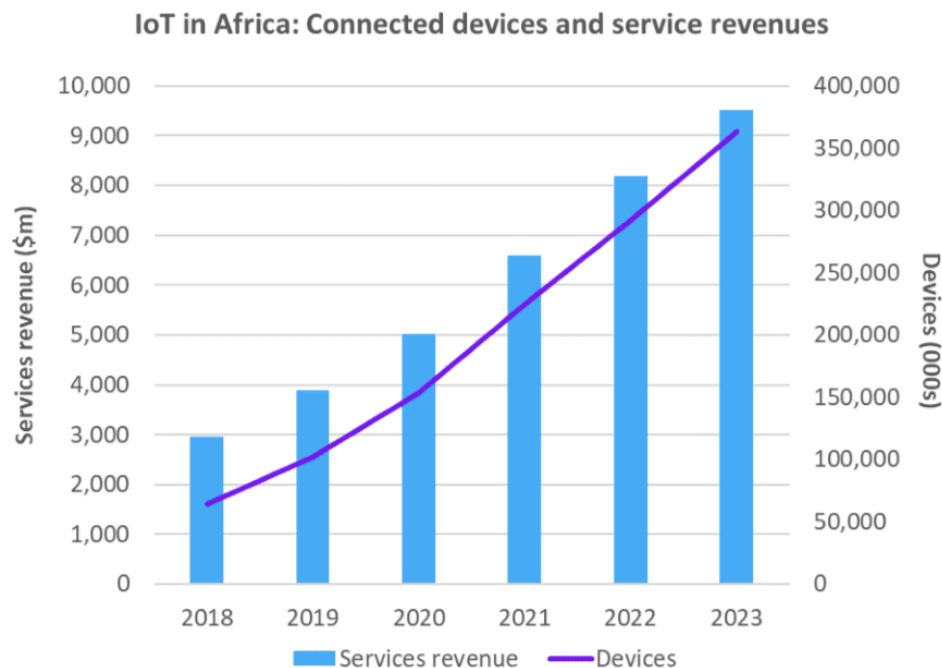
IoT in Africa through 2023

[Click below to read the overview](#)

African businesses are keen on 5G, but IoT is certainly not one of the applications we anticipate will drive 5G uptake in an African context

In much of the world, 5G is seen as a catalyst for massive machine type communications and an exponential growth in machine-to-machine connectivity.

Will 5G and IoT dovetail in Africa and stimulate the uptake of 5G services?



While this appears a standard chart at first glance, behind it are some interesting data. It provides the answer to the question above: “no”.

1. Only 16% of IoT revenue is accounted for by connectivity. The game is elsewhere: platform, applications, integration, and management.

2. Less than 1% by 2023: the number of IoT connects that are 5G.

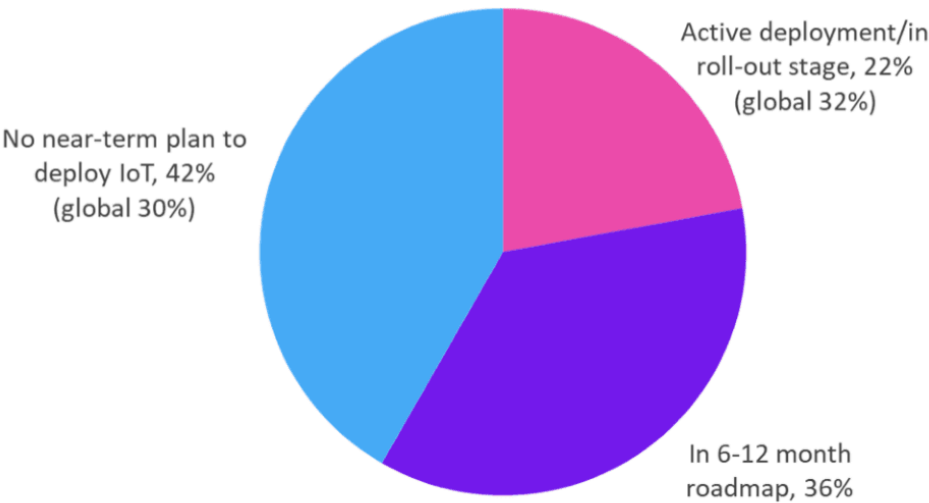
3. And Africa is only 1% of the global market!

Large South African enterprises are “behind” their global peers

The results of an Omdia enterprise survey of South African firms reveal that they are 31% less likely than their global peers to have an IoT system in active deployment or at rollout stage. 42% of firms in Africa claim no IoT plans against a global average of 30%.

Why is this the case? Our next finding explains.

IoT adoption among South African enterprises/public sector



Note: South Africa, n=470
Source: Omdia IoT Enterprise survey 2019

Reality bites: The challenges of IoT deployment in South Africa

There are significant barriers to IoT deployment in Africa. The data reveals that security, poor network quality, and lack of available expertise are hampering digitalization.

Ensuring data, network, and device security	39%
Concerns over service reliability or network coverage	38%
Lack of internal IoT expertise	33%
Lack of investment budget	30%
Concerns about integration with legacy IT and networks	29%
Complexity of integrating with business processes/OT	23%
Ensuring data privacy or governance	19%
Ability to derive business value from IoT data	19%

Developing a clear IoT business case 18%

Open full table in browser:
<https://informa.turtl.co/story/africa-tech-festival-iot-and-5g-in-an-african-context/page/5/2>

It's early days for B2B buyers in Africa

1

Despite what they claim, enterprises do not understand the full potential of IoT, let alone 5G IoT

2

South African enterprises are behind their global peers

3

Security and reliability issues trump concerns about tech maturity

Source: Omdia

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Businesses are looking for transformation first, but for technology which enables it second.



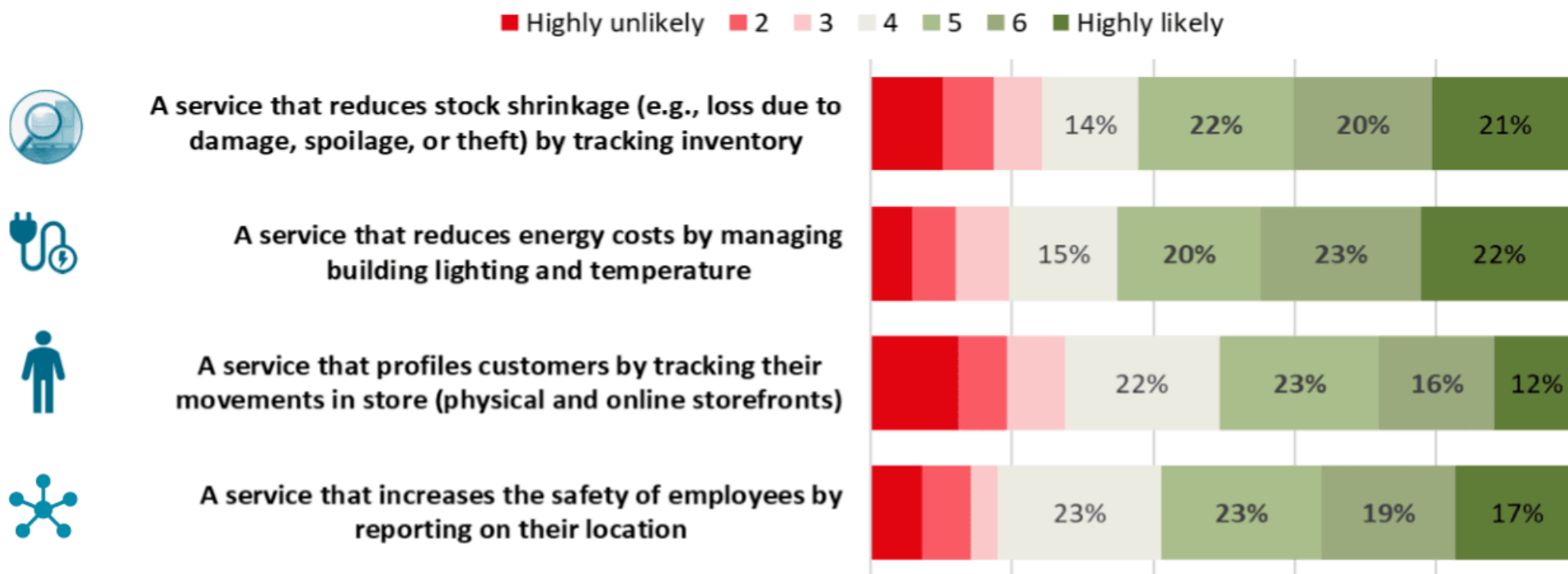
A hand holding a smartphone is shown against a dark blue background. Overlaid on the phone and extending into the background is a large, glowing, translucent '5G' logo. The logo is composed of various geometric shapes and lines, giving it a futuristic, digital appearance. The background also features faint, swirling patterns of light, suggesting data flow or network activity.

Mapping the ecosystem for B2B 5G

[Click below to read more](#)

Not just for big business: South Africa's SMEs are interested in IoT propositions

South African SoHos and SMEs: Would you consider buying the following services?



Note: n=306

Source: Omdia 2018/19 SoHo and SME Insights Survey

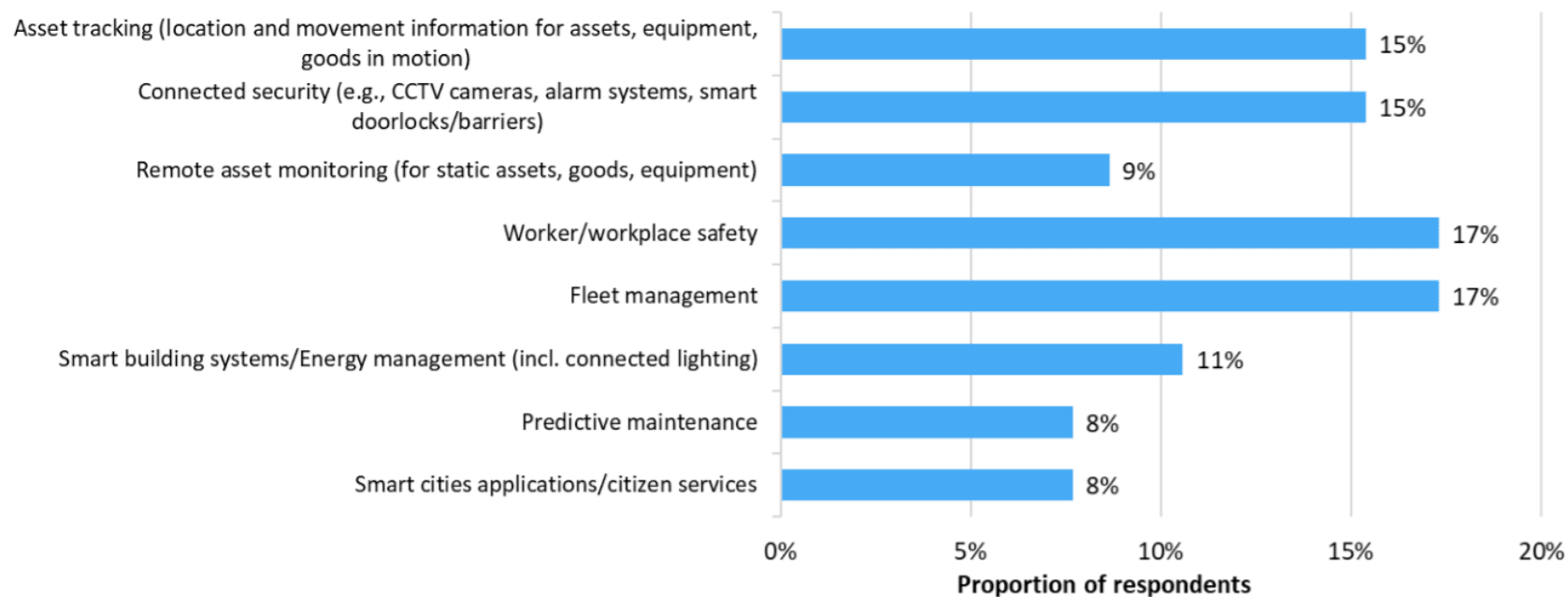
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The right use case can generate high interest. Energy management and asset protection resonate strongly.

South Africa: most important application category for IoT

Everywhere the focus is on human and non-human assets and security: workers, fleet, asset tracking, security. But in South Africa, these come at the expense of enhanced “experiential” apps such as smart cities, buildings.

Q17: What is the most important category of applications you are using IoT for, in your organization (in other words, which is the ‘anchor’ or main type of IoT application you’re deploying)?



Note: South Africa, n=104
Source: Omdia IoT Enterprise Survey 2019

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South Africa: key IoT applications by industry

Transport  1. Asset tracking 2. Fleet management 3. Vehicle safety/security	Manufacturing  1. Predictive analytics 2. Production quality monitoring 3. Asset tracking	Healthcare  1. Remote patient monitoring 2. Predictive analytics 3. Asset tracking/geofencing
Energy  1. Smart metering 2. Smart grid 3. Predictive analytics	Public sector  1. Asset tracking 2. Fleet management 3. Environmental monitoring	Retail/hospitality  1. Customer experience 2. Inventory tracking 3. CCTV

Note: South Africa, n=470
Source: Omdia IoT Enterprise Survey 2019

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Industry-specific approach and business awareness is more than essential: this is why telcos aren't "winning."

Stop thinking 5G or IoT, start thinking business goals.



Source: Omdia

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Although their B2B targets may differ, competitor clusters do reflect perennial enterprise concerns: the need for market visibility, increased employee productivity, and to secure efficient operations.



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