

5G POLICY IMPLICATIONS IN SUB-SAHARA AFRICA

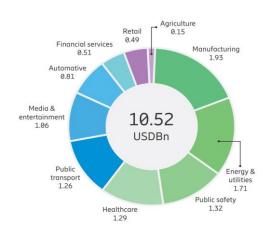
USTDA SOUTH AFRICA CONNECTIVITY STANDARDS WORKSHOP 8 OCTOER 2019, JOHANNESBURG

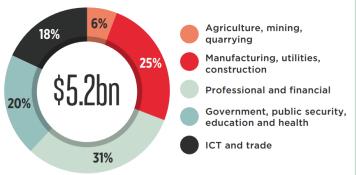
PANEL 1: WIRELESS BROADBAND TECHNOLOGIES

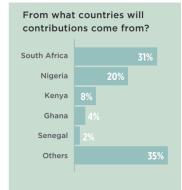
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5G OPPORTUNITY FOR AFRICA – POTENTIAL ECONOMIC BENEFIT

 Estimated 5G Business Potential for Africa is in the order of 10.52
 Billion USD by 2026¹







- □ The GDP impact (socio-economic benefits) of mmWave 5G in Sub-Saharan Africa is around 5.2 billion USD by 2034²
- ☐ License-exempt frequency bands are also a critical component of 5G.
 - ✓ In 2018, the economic value provided by Wi-Fi is nearly \$2 trillion, and is expected to grow to almost \$3.5 trillion by 2023³.



5G: CONVERGENCE OF WIRELESS WITH COMPUTING AND THE CLOUD

Next Generation Of Wireless Networks

Higher Speeds, Greater Capacity And Lower Latency

Billions Of Connected Devices And Things

MORE USERS

2G
CELLULAR COMMS

DATA AND THE APP REVOLUTION

Requires Agility, Scalability and Intelligence Across Network, Cloud & Client

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☐ THE 5G ERA: 5G TECHNOLOGIES

Intel believes that **both 3GPP-based and IEEE-based technologies** play an important role in 5G. **3GPP standards** (e.g. Release 15 and beyond, IMT-2020) and **IEEE-based standards** (Wi-Fi 6 and beyond, and WiGig) will deliver wireless broadband to consumers and businesses worldwide.

□ POLICY IMPLICATION OF 5G IN SSA - REGULATORY POLICY

Any broadband strategy or policy plan should include the following key elements/items to facilitate 5G deployment/use: Spectrum allocation, technology neutrality, Right of way and permit process etc.

POLICY IMPLICATION OF 5G IN SSA - SPECTRUM POLICY

Make sufficient spectrum available: Licensed spectrum in low-band – below ~1 GHz; mid-band – between ~2 – 5 GHz and high-band – above 24 GHz; and License-exempt spectrum in the 5 / 6 GHz band and in the 60 GHz range

■ SUGGESTIONS TOWARDS A NATIONAL/REGIONAL/CONTINENTAL 5G IMPLEMENTATION STRATEGY⁴

Development of a 5G action plan including: 1. A 5G Spectrum Roadmap and

2. A call for the deployment of infrastructure that will facilitate 5G such as fibre, data centres, edge compute etc.



Thank you



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