



Russian Satellite
Communications Company

Webinar: Satellite connectivity in Africa

28.05.2020



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RSCC Satellite Connectivity Solutions for Africa

Webinar on satellite
connectivity in Africa,
28.05.2020

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Sub Saharan Africa – Fact Sheet

Pros

- 46 Countries
- 1 Billion Inhabitants
- 230 Million Households
- 60% Rural Population (400 mn)

Cons

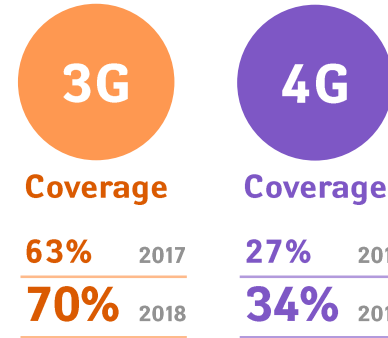
- 2% of the World's GDP
- 90% of new population will live for <\$2 a day
- Electrification rate – 43%

Telecom

- Fixed Broadband penetration – 8%
- Mobile Broadband penetration – 24%
- 40% of global population not connected
- Average affordability of 1Gb – 6.8% of monthly income (>2% for 75% countries)

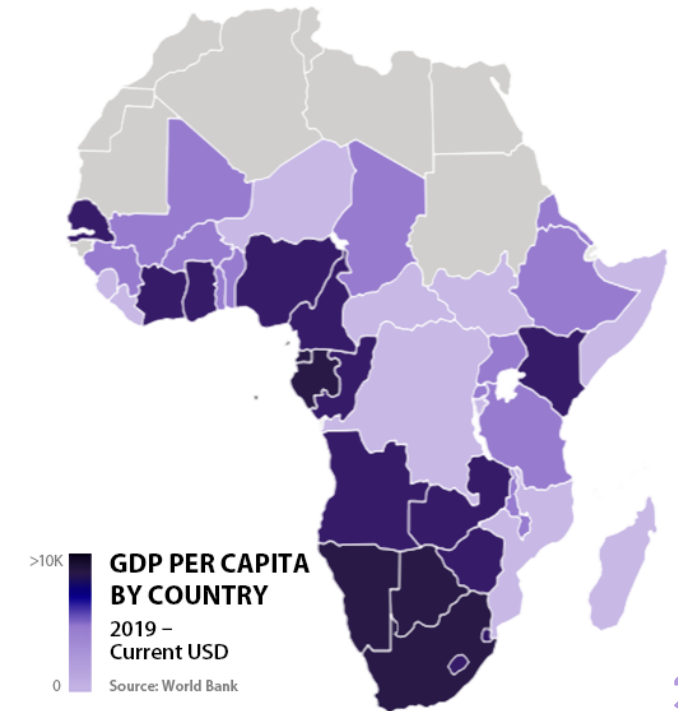
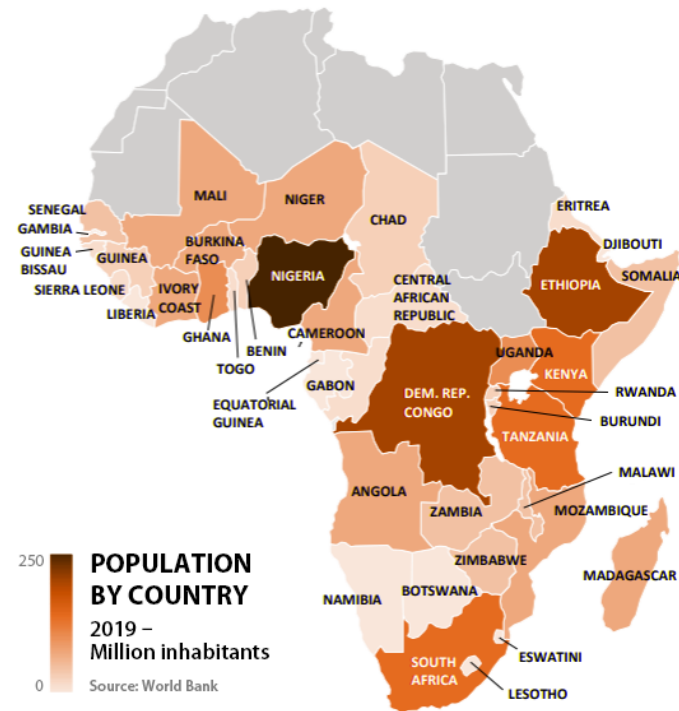
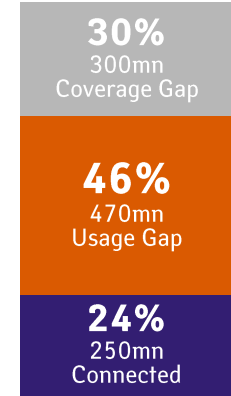
Mobile Network Coverage

Source: GSMA



Mobile Internet in Africa 2018

Source: GSMA



Sub Saharan Africa – Connecting the unconnected

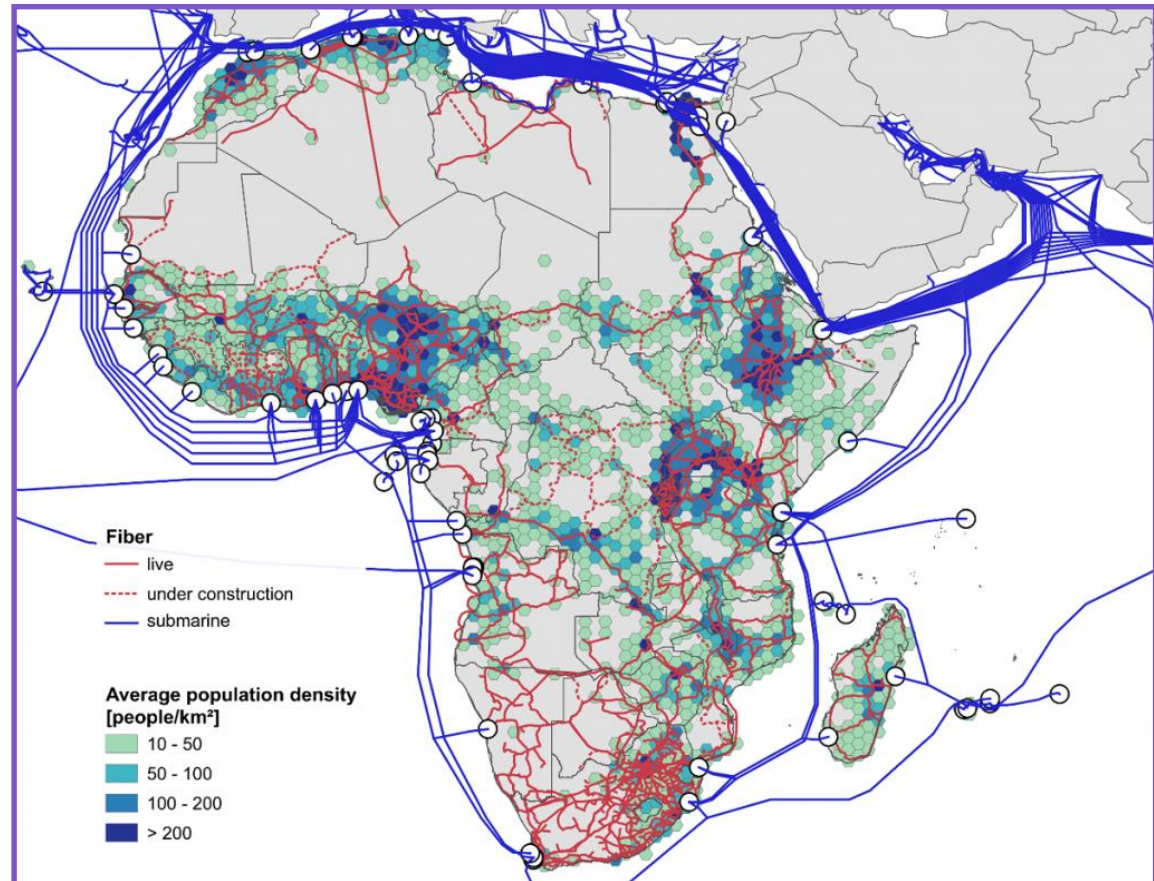
Challenges

- Broadband definition: 3, 6, 10 mbps?
- \$100 Billion for bridging digital divide (Broadband Commission)
- 250K new 4G base stations required
- SLA
- 45% of population >10 km from fiber infrastructure

Topics for discussion

- Does satellite fit?
- Terrestrial – partner or rival?
- LEO satellites are the cure?
- 5G and C-band, how to co-exist?
- Future satcom and telecom landscape?

Visualization of fiber infrastructure in Africa and population density, showing unserved regions

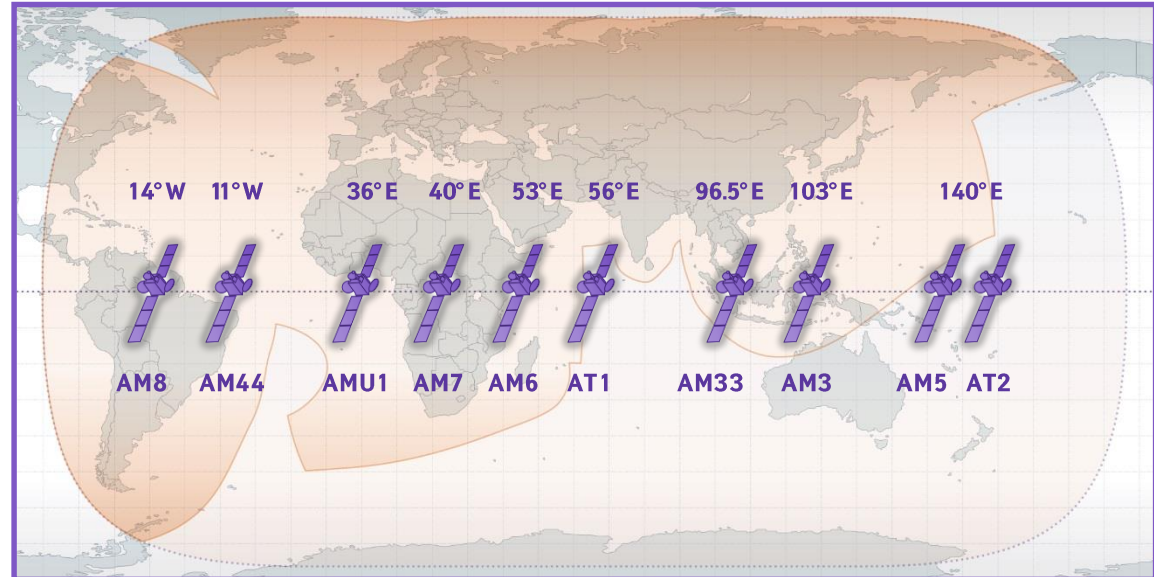


Source: World Bank

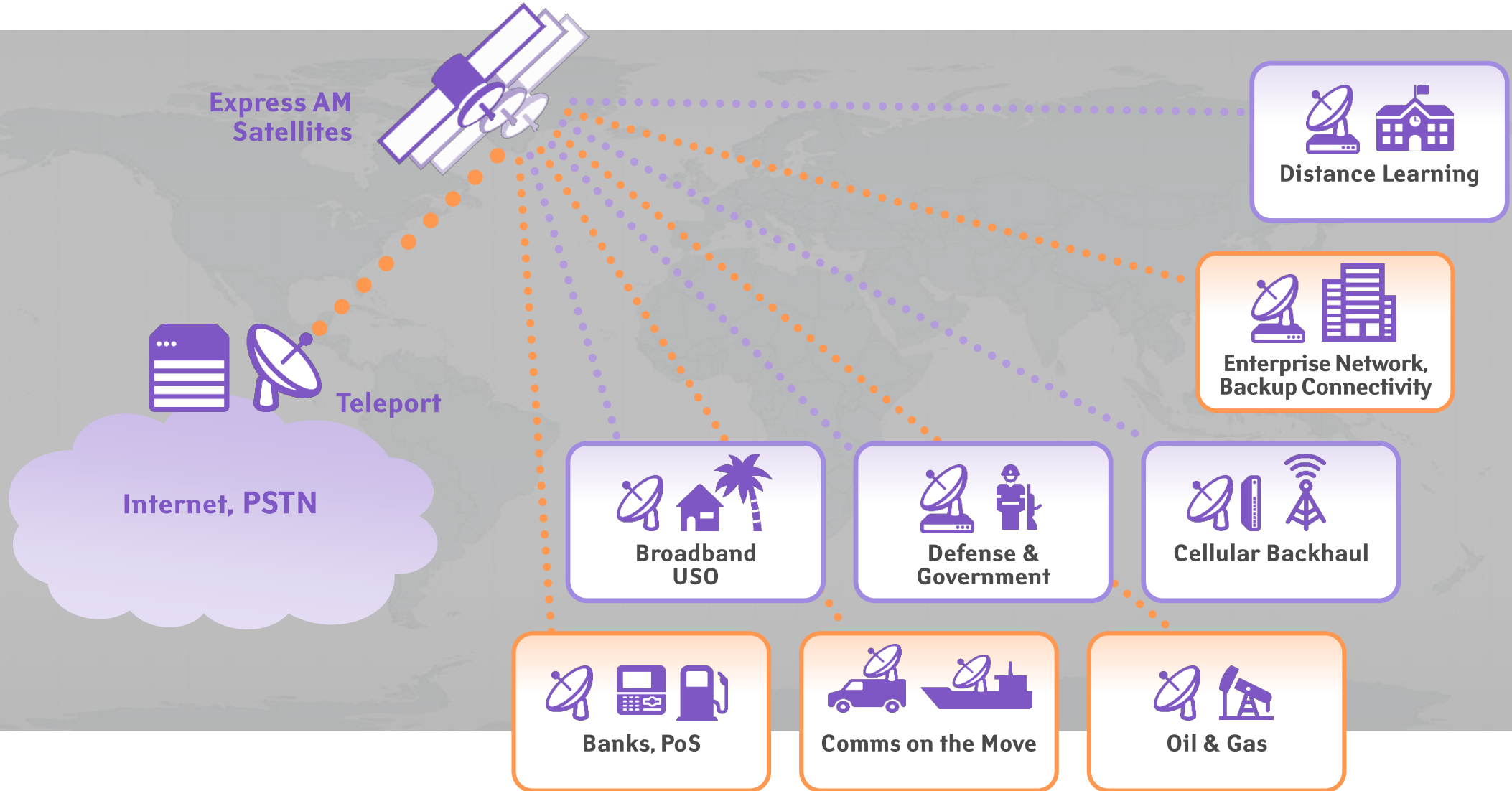
RSCC Profile

- State-owned commercial FSS operator
- 50+ years of experience in satcom industry (est. 1967)
- 10 satellites @ GEO arc from 14° W through 145° E
- Constant renewal of satellite fleet
 - 7 new satellites successfully launched in 2014–2015
 - 5 more planned in 2020–2023
- Almost world-wide coverage
- Service for 55 countries in Europe, Africa, Middle East, Asia, South and North Americas
- 50% Revenue – International Sales

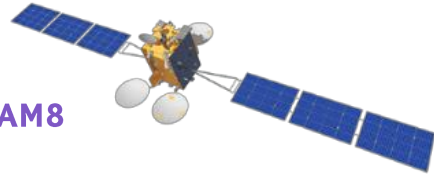
RSCC Satellite Constellation



International Markets – RSCC Satcom Applications



RSCC in Sub Saharan Africa



Express-AM8
14 West

C-Band/Ku-band:
Sahel, Ethiopia & West Africa



Express-AM7
40 East

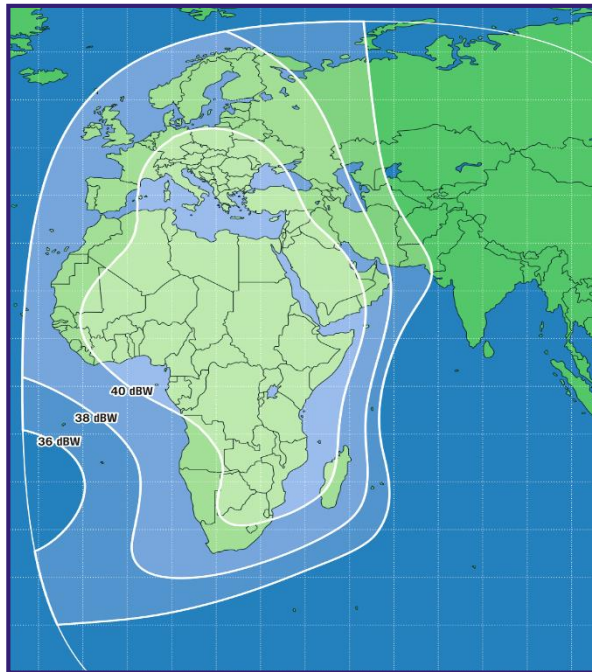
C-band: Central Africa



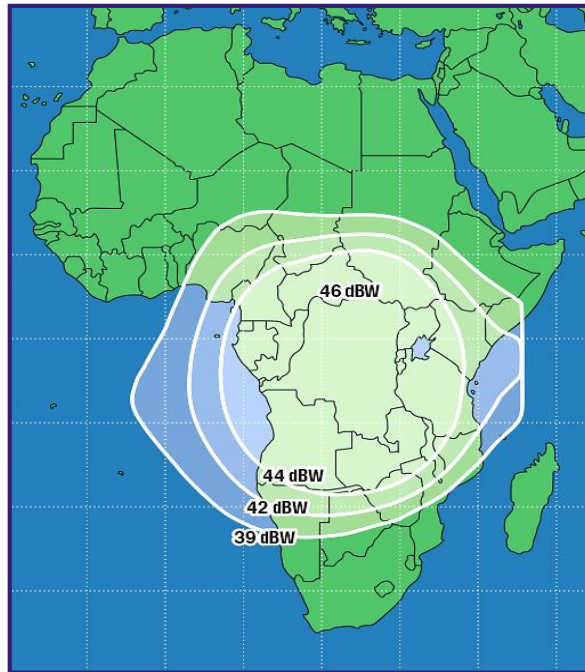
Express-AM6
53 East

C-band: African Continent

Wide Pan-African beams



Regional Spot Beams



- Backhaul to Europe and ME
- Mbps Service Packages for ISP
- VNO service (UHP, Newtec, iDirect)
- MCPC platform for FTA and Pay TV channels
- Satellite Cellular backhaul network design
- USO and civil government networks expertise
- Customers in Central and East Africa



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**Thank you
for your time!**

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