### Key enablers to Rural Coverage Expansion: Regulatory & Policy Considerations

Kamal Tamawa Senior Policy Manager, SSA GSMA

4<sup>th</sup> Annual Sub-Sahara Spectrum Management Conference 27 & 28 May 2019 Gaborone, Botswana



#### **About the GSMA**





# In Sub-Saharan Africa the number one barrier for connectivity is the 40% of uncovered population





#### Lack of coverage is more acute in rural areas





# Factors impacting service extension in uncovered areas















These factors have negative implications for the business case in rural areas

FACT #1	FACT #2	FACT #3	
<b>1.3x</b>	2x more	10x less	
more Required	Required	Revenues	
CAPEX per	OPEX per site	per site	
<b>Site</b> Remote site vs urban site	Remote site vs urban site	Remote site vs urban site	



### But Improving connectivity is key to supporting the economic growth in emerging economies

- New Services
- New Jobs
- New Business Opportunities
- Better Integration at National Level
- GDP growth
- Increased Direct and Indirect Fiscal Income

+10% MBB Adoption = +1.4% GDP growth





#### A purpose-built regulatory and policy framework is needed to help bridge the coverage gap

Components of an investment-friendly Framework





#### Infrastructure sharing

Coherent regulatory framework Regulatory governance Cross-sector deployment coordination Administrative efficiency at local level Spectrum policy Infrastructure sharing

- Infrastructure sharing allows mobile operators to decrease the costs and risk of covering rural areas.
- Active and passive infrastructure sharing should be allowed under primary legislation and encouraged by regulators on a **voluntary basis**.

Element of network shared	Passive sharing	MORAN	MOCN	Roaming
Site + mast	Х	Х	Х	Х
Power	Х	Х	Х	Х
Antennas + BTS + RNC + Backhaul		Х	Х	Х
Spectrum			Х	Х



#### **Spectrum policy**



- A spectrum policy that facilitates rural coverage must:
  - Release sufficient spectrum below 1 GHz.
  - Follow an established roadmap.
  - Facilitate secondary spectrum markets.
  - Use technology-neutral licences.
  - Adopt a Universal-access-friendly spectrum pricing policy.
  - Review Backhaul Spectrum pricing and licensing practices.



#### **Administrative Efficiency**

Coherent regulatory framework Regulatory governance Cross-sector deployment coordination Administrative efficiency at local level Spectrum policy Infrastructure sharing

- Local authorities play an important role in facilitating the deployment of mobile infrastructure.
- National authorities should play an active role in homogenising the processes across municipalities.
- Four priority areas of work:
  - Planning regulations.
  - Health and safety regulation (exposure to RF radiation).
  - BTS deployment permit procedures.
  - Rules for access to land and public infrastructure.



#### **Cross sector deployment coordination**



- Coordination across different sectors aids in the reduction of the costs of deploying mobile infrastructure in rural areas.
- Considerations to facilitate coordination:
  - Creating a single point of information for granting permits
  - Promoting initiatives to map infrastructure
  - Enforcing advance notification of civil works for infrastructure deployment (roads, sanitation, energy, telecom).



#### **Regulatory Governance**

Coherent regulatory framework Regulatory governance Cross-sector deployment coordination Administrative efficiency at local level Spectrum policy Infrastructure sharing

- Predictable and consistent regulation is crucial to giving operators the confidence to make long-term investments in rural areas.
- Ensuring consistency and predictability requires an independent regulator focused on long-term objectives.
- Regulator independence
  - Institutional
  - Functional
  - Hierarchical
  - Financial



# An investment-friendly regulatory framework will boost coverage





- Sub-Saharan Africa requires large investments to bring Mobile broadband to rural communities.
- Mobile operators are already investing in Infrastructure sharing agreements in rural areas and innovative cost-reducing technology. But they can invest more.
- Making these investments will rely on having an investment-friendly regulatory framework that provides certainty of reasonable returns over the long-term.
- Closing the digital divide in Sub-Saharan Africa depends on the capacity of governments to make the required adjustments and create a regulatory framework aligned with their digital objectives.



## **Thank You**

Kamal Tamawa Senior Policy Manager, SSA ktamawa@gsma.com