

#### Vision of the country for Space

VISION: accelerate Rwanda's economic growth and prosperity, and to ensure a high quality of life for all Rwandans by contributing to the long-term strategic direction of the country through space activities.

Mission: Establish a world-class space ecosystem positioning Rwanda as a contributor and enabler on the global space value chain.









Inspire

	Governance	Regulatory Framework	Economic Development	International development	Education & Capacity building	Sustainability & Self-reliance
Build capacities and capabilities	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Boost Rwanda's attractiveness	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Develop strategic Partnerships	<b>✓</b>		<b>~</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Empower the Private Sector	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>~</b>	<b>✓</b>
Grow a trained workforce	- V					
Communicate Rwanda's Vision	<b>✓</b>				<b>✓</b>	✓

# Big satellite constellation Vs traditional satellites



New sat constellations

- Very high capacity (> 100 Mbps per terminal)
- Low latency (less than 100 ms)
- Low price (\$50 -\$100 for 1 Mbps per month)
- flexibility in capacity allocation



Traditional

Low capacity (<10 Mbps)</li>

High latency ( > 300 ms)

- High price (> \$500 per 1 Mbps per month dedicated)
- limited flexibility in capacity allocation

### Evolution in licensing models

#### Traditional licensing

- requirement for a local gateway
- · Licensing each terminal
- · High Spectrum fee
- · Via local ISPs
- Landing rights
- · Need for technical support for the installations

#### New Licensing model

- · Blanket license (all terminals)
- · Fair fee for Spectrum (shared spectrum)
- Not always necessary to have a technical support

## Two aspects of licensing

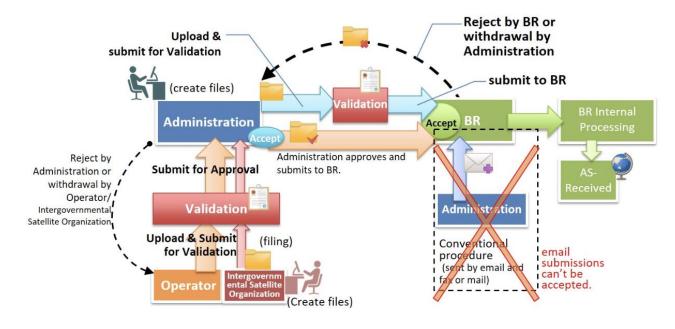




Filing

Satellite operations and service provision

## Filing aspect

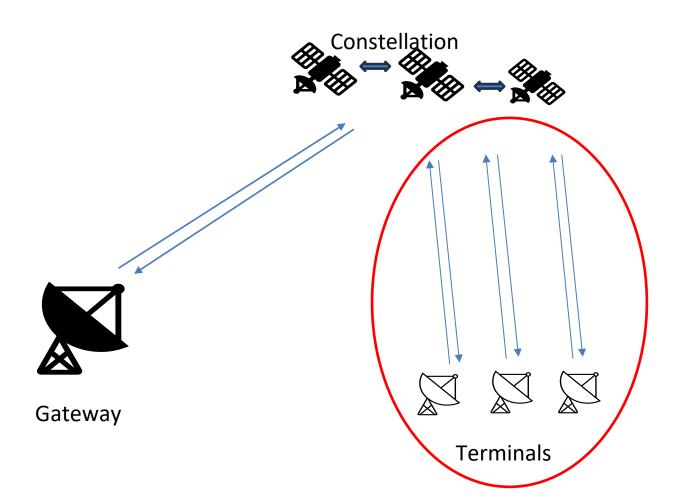


Abstract of the Procedure on e-Submission

Source: ITU

- Key considerations in filing licensing:
  - The Radio Regulations compliance
  - Coexistence with other services
  - The impact on Rwanda and Africa
  - Future development of Rwanda and satellite industry

## Services provision licensing aspect



Key considerations in licensing:

- Bridge the connectivity gap
- The National Laws and Regulations compliance
- Coexistence with other national communication services
- The quality of services
- Affordability of services
- Consumer protection

#### A regional approach for NGSO



**ATU Secretariat** 

generated paper on

IMPLICATIONS OF THE MASSIFICATION OF BROADBAND SERVICES USING NON-GEOSTATIONARY SATELLITE ORBIT SYSTEMS IN AFRICA AND RECOMMENDATIONS ON HOW ISSUES COULD BE ADDRESSED

intended as an input to the 8th meeting of

TASK GROUP ON EMERGING TECHNOLOGIES

- ❖ The African Telecommunication Union is working on a paper to assess the impact of NGSO
- The paper looks into opportunities, challenges, and regulatory considerations raised by NGSO systems and their provision of broadband services,
- ❖ focus on the potential impact on existing market players and maximizing the value of spectrum allocated to satellite services and how these services can increase connectivity in African countries.

#### Some challenges faced so far

limited local customer support

Some local payment means are not accepted (eg. MoMo)

# THANK YOU!

