

<u>LIST OF FM and TV STATIONS OPERATING IN RWANDA AND THEIR APPROXIMATE COVERAGE.</u>

Section 1 summarizes the radio stations approximate coverage in percentage and section 2 shows approximation coverage on maps as of 26th May 2020.

1. Radio Stations (Categorized based on covered area)

Station Name	Number of	Approximate	Transmitting station, site a	nd frequency
	Transmitters	covered area	22022222222	
RBA	28	98%	Radio Rwanda, Jali,	100.7 MHz
(Radio Rwanda and	20	See image 1	Radio Rwanda, Rebero,	104.7 MHz
`		See illiage i	Radio Rwanda, Huye,	103.9 MHz
its community			Radio Rwanda, Karisimbi,	88.0 MHz
radios (CR))			Radio Rwanda, Rushaki,	90.1 MHz
			Radio Rwanda, Gitwe,	92.4MHz
			Radio Rwanda, Kinanira,	92.9MHz
			Radio Rwanda, Nyarupfubire,	93.5 MHz
			Radio Rwanda, Rubona,	94.6 MHz
			Radio Rwanda, Mugogo,	95.1 MHz
			Radio Rwanda, karongi,	97.6MHz
			Radio Rwanda, Nyabitimbo,	100.4 MHz
			Radio Rwanda, Nyamasheke,	101.1 MHz
			Radio Rwanda, Bwishyura,	101.1 MHz
			Radio Rwanda, Byumba,	103.2 MHz
			Radio Rwanda, Gihundwe,	105.7 MHz
			Radio Rwanda, Rushaki,	106.8 MHz
			Radio Rwanda, Kiyanzi	99.3 MHz
			Radio Rwanda, Kabuye	92.4MHz
			Radio Rwanda Inteko, Jali,	101.5 MHz
			RBA CR Huye, Huye,	100.4 MHz
			RBA CR Musanze, Mugogo,	98.4MHz
			RBA CR Nyagatare, Nyarupfubire,	95.5 MHz
			RBA CR Rubavu, Rubona,	95.1 MHz
			RBA CR Rusizi, Nyabitimbo,	96.1MHz
			RBA CR Rusizi, Gihundwe	89.8MHz
			RBA CR Rusizi, Karongi,	106.9 MHz
			RBA Magic FM, Jali,	90.7MHz
Radio Maria	5	80%	Radio Maria, Huye,	88.6MHz
		See Image 2	Radio Maria, Jari,	97.3 MHz
		2	Radio Maria, Gihundwe,	99.4 MHz
			Radio Maria, Karongi,	99.8 MHz
			Radio Maria, Byumba	96.4MHz
KT Radio	5	80%	KT Radio, jali	96.7MHz
		See Image 3	KT radio, Mugogo	101.1MHz
		.6.	KT Radio, Karongi	103.3MHz
			KT Radio, Huye	107.9MHz
			KT Radio, Nyarupfubire	107.9MHz
BBC	3	75% See	BBC, Karongi	93.3MHz
		Image 4	BBC, Jali	93.9MHz
		_	BBC, Huye	106.1MHz
Radio10	3	70% see image	Radio10, Jali	87.6 MHz
			Radio10, Rubavu	93.6 MHz



Station Name	Number of	Approximate	Transmitting station,	site and frequency
	Transmitters	covered area		
		5	Radio10, Nyarupfubire	99 MHz
Radio Flash FM	3	70%	Flash FM, Jali,	89.2 MHz
		See Image 6	Flash FM, Nyarupfubire,	90.4MHz
		See mage o	Flash FM, Karongi,	95.7 MHz
Radio Salus	2	65%	Salus Radio, Jali,	101.9 MHz
		See Image 7	Salus Radio, Huye,	97 MHz
- City Radio	1	60 %	City Radio Jali,	88.3 MHz
- Isango star		See image 8	Isango star Jali,	91.5MHz
- K-FM			K-FM Rebero,	98.7 MHz
- Radio Huguka			Radio Huguka Jali,	105.9 MHz
- Radio one			Radio one Jali,	91.1MHz
- Royal FM			Royal FM Jali,	94.3 MHz
- KISS FM			Kiss FM Jali,	102.3 MHz
- Authentic radio			Authentic radio Jali,	92.8MHz
- Inkoramutima radio			Inkoramutima Radio Jali,	107.1 MHz
- Voice of Africa			Voice of Africa Jali,	94.7 MHz
- Voice of Hope			Voice of Hope Jall,	106.4 MHz
- Radio Umucyo			Radio Umucyo Jali,	102.8 MHz
- Voice of America			Voice of America Jali,	104.3 MHz
- RFI Radio			RFI Radio Jali,	91.9 MHz
- Fine FM Radio			Fine FM, Jali,	93.1MHz
- Life radio			Life radio Jali,	96MHz
- Sana Radio			Sana Radio Jali,	98MHz
- Hot FM Radio			Hot FM radio Jali,	103.6MHz
- Vision Radio			Vision Radio Jali,	104.1MHz
Energy radio	1	30% operating at	Mugogo,	88.8MHz
		Musanze. See		
		Image 9		
- Isangano		15 %	Isangano CR, Karongi,	89.4 MHz.
Community Radio		Depending on		
- Ishingiro		transmitter	Ishingiro CR, Byumba,	107.5 MHz
Community Radio		location. See		
- Radio Izuba		Images 10, 11 and	Radio Izuba CR, Kibungo,	100.0 MHz
Community Radio		12		



2. The coverage of radio stations on maps

The coverage analysis was done using the parameters assigned in the licenses and below are the general parameters assigned;

Antenna height above ground level: 50m

➤ Signal type: FM Stereo for Radio

Transmitter power: 1 KWAntenna gain: 8 dBi

> Propagation model: Fresnel method

Image 1: Approximate coverage of Radio Rwanda

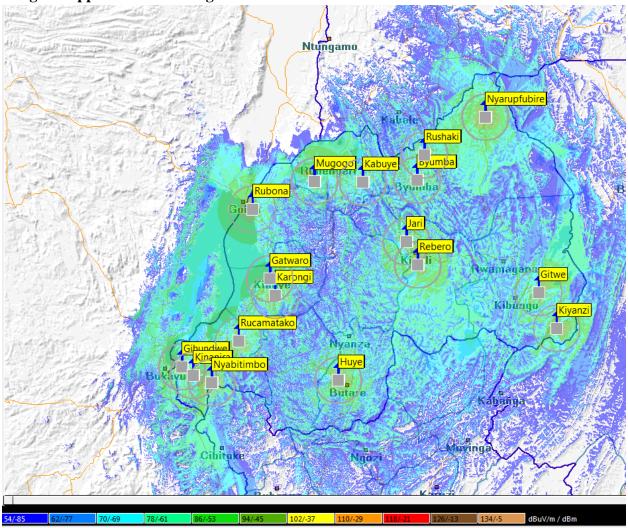




Image 2: Approximate coverage of Radio Maria

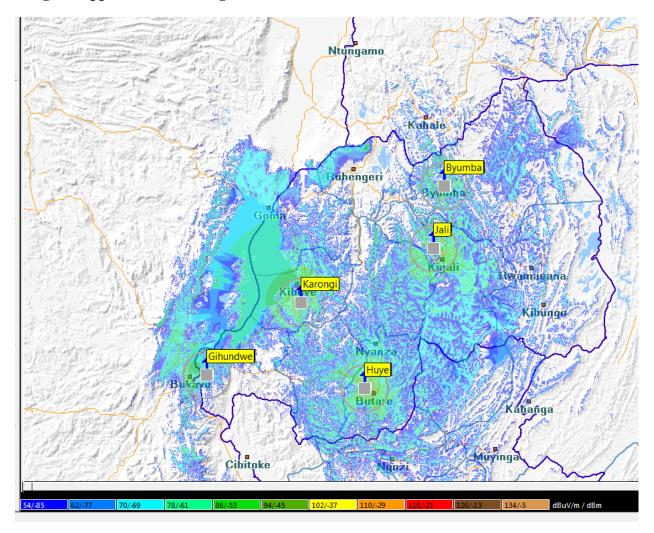




Image3: Approximate coverage of KT Radio

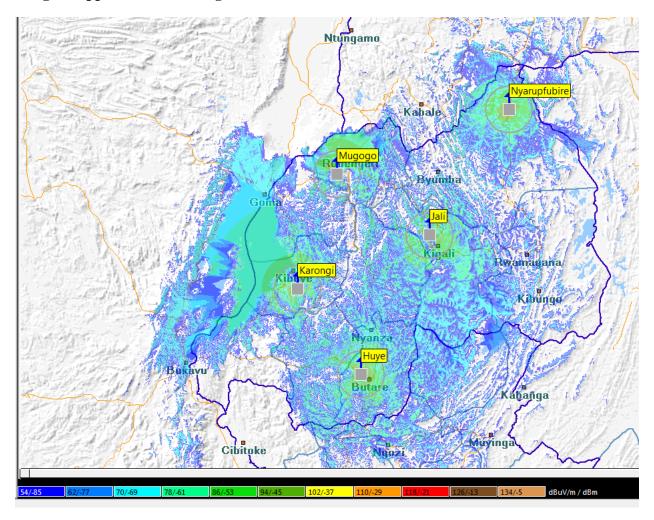




Image4: Approximate coverage of BBC Radio

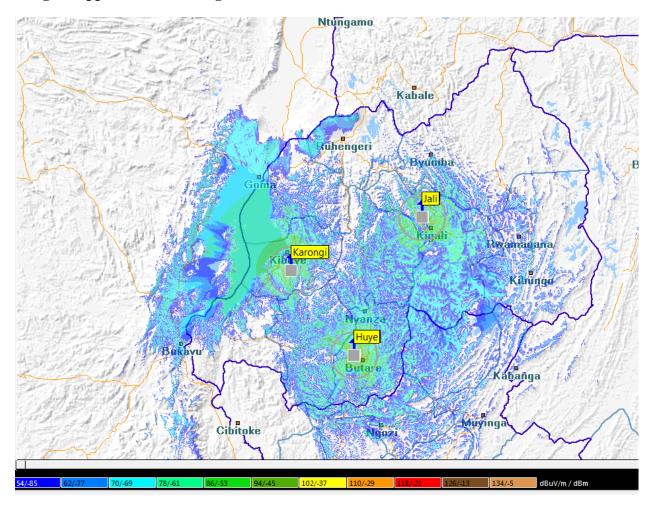




Image 5: Approximate coverage of Radio10 FM

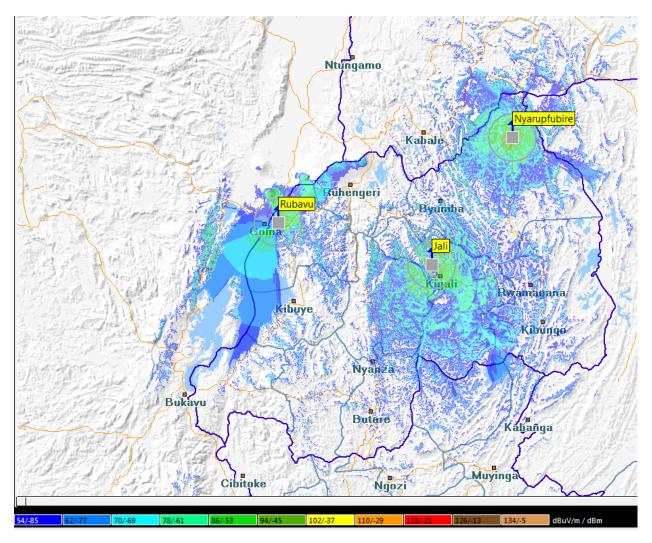
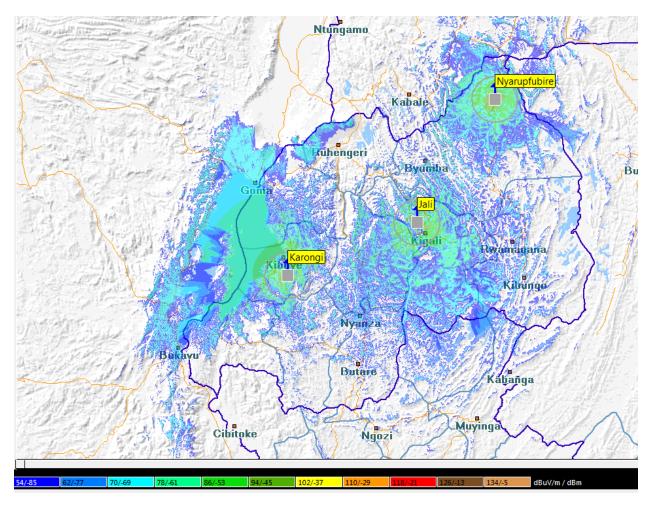
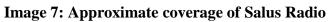




Image6: Approximate coverage of Radio Flash FM







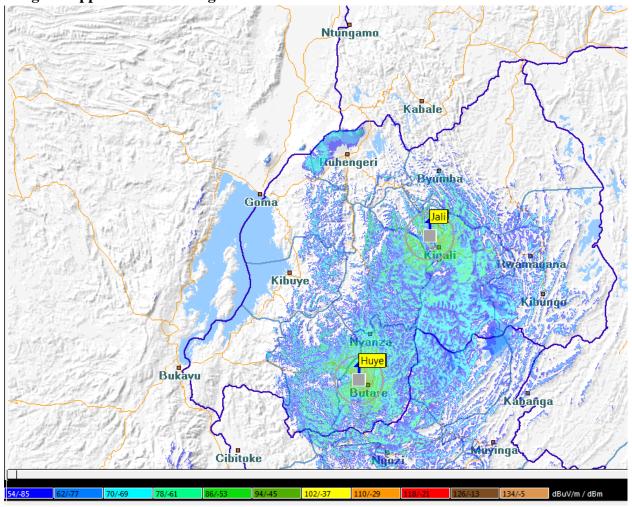




Image 8: Approximate coverage of FM stations with one transmitter of 1 KW in Kigali (Jali site)

(City Radio, Isango star, K-FM, Huguka Radio, Radio one, Authentic, Inkoramutima Radio, Voice of Africa, Voice of Hope, Kiss FM, Royal FM, Hot FM, Radio Umucyo, Voice of America, Fine FM, Life radio, Sana Radio, Vision Radio & RFI).

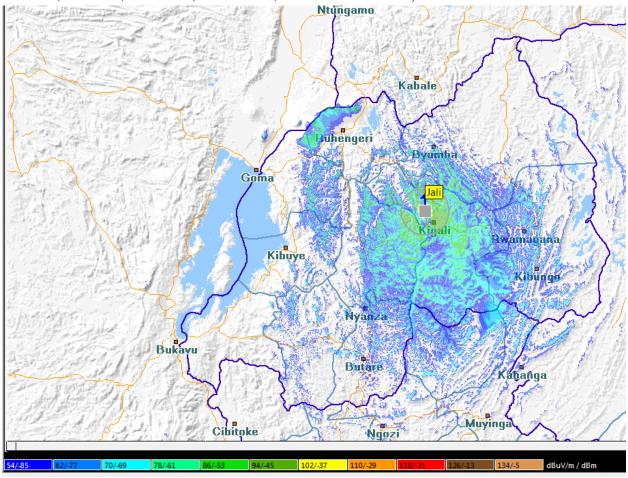




Image 9: Approximate coverage of Energy Radio

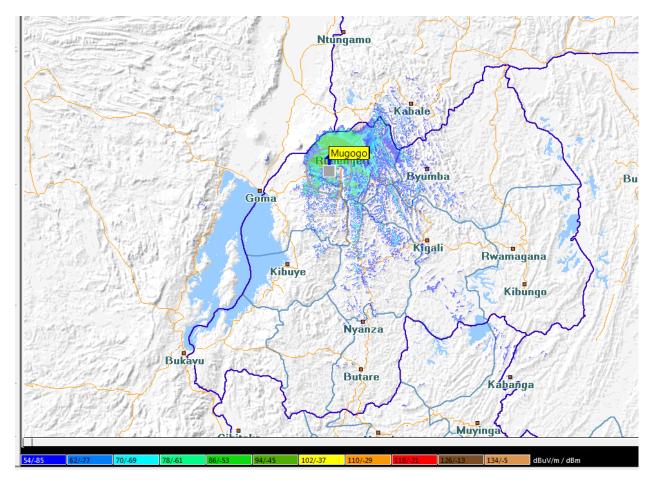




Image 10: Approximate coverage of Isangano radio

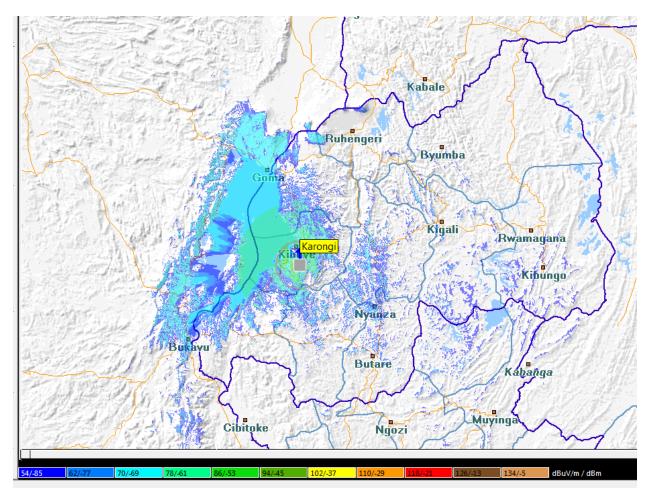




Image 11: Approximate Radio coverage for Ishingiro Radio

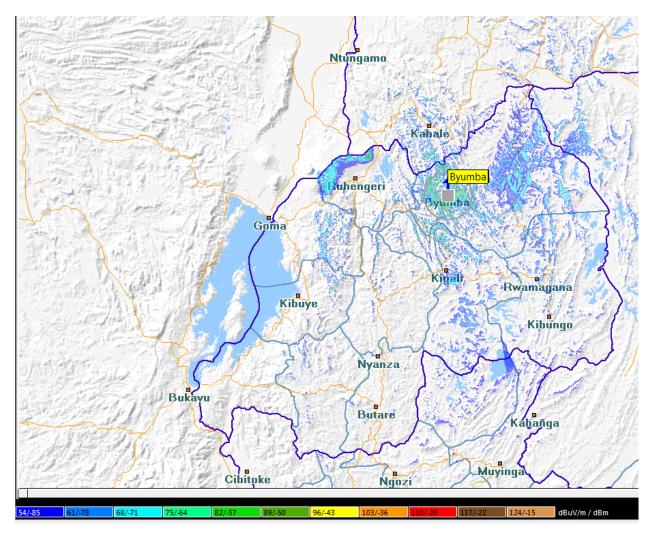
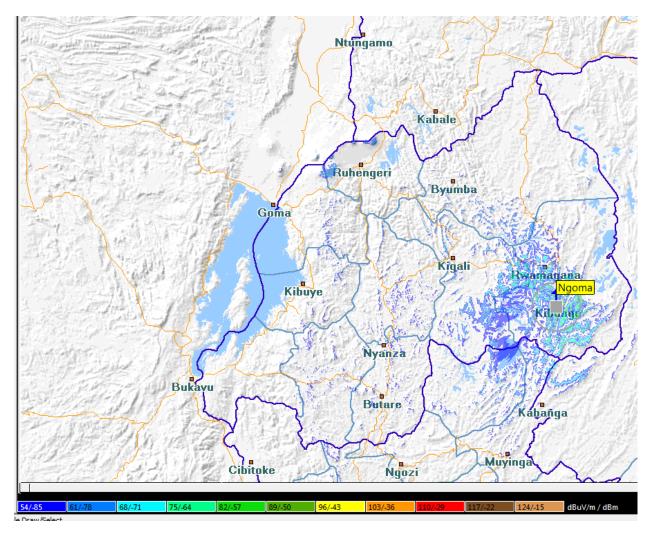




Image 12: Approximate Radio coverage for Izuba radio





3. APPROXIMATE COVERAGE OF TV STATIONS IN RWANDA

In digital TV broadcasting, there are two signal distributors namely Rwanda Broadcasting Agency (RBA) with 14 transmitters located at 14 sites and PANAFRICA Network Group Ltd with 18 transmitters located at 6 sites.

The aim of this document is to show their simulated coverage. It can help the signal distributors to add gap fillers to cover the areas not covered or add new transmitters in the areas not covered. Further, TV content providers can understand the coverage of their TV contents.

This document contains two parts; the simulated coverage of each network and TV stations broadcasted in each network. The TV stations on RBA network platform covers 80% and on PANAFRICA Network Group Ltd platform covers 60% of the whole country on terrestrial platform.

1. PART ONE: THE SIMULATED COVERAGE

Fig1: Rwanda Broadcasting Agency Digital TV network Coverage

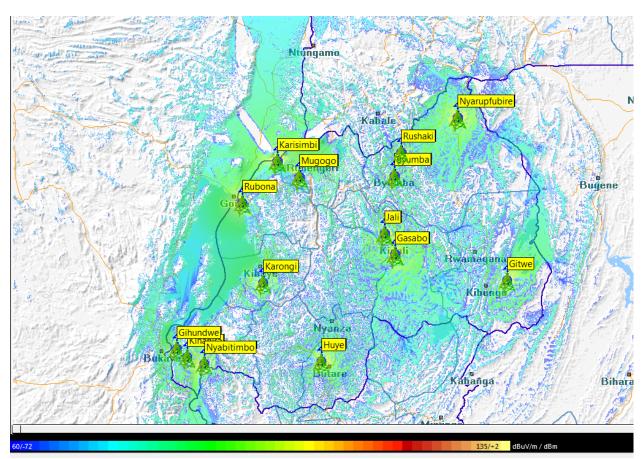
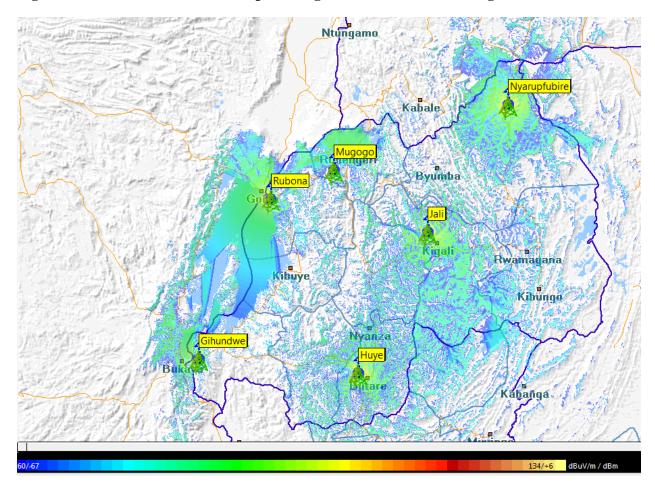




Fig2: PANAFRICA Network Group Ltd Digital TV Network Coverage





TV STATIONS CARRIED IN EACH SIGNAL DISTRIBUTOR'S NETWORK

a) TV stations at RBA Network

- 1. Rwanda Television(RTV)
- 2. Isango Star TV
- 3. TV One
- 4. Flash TV
- 5. Big Television Network (BTN) TV
- 6. France 24 French
- 7. France 24 English
- 8. Pacis TV.
- 9. KC2.

b) TV Stations at PanAfrica Network Group Ltd Network

- 1. TV One
- 2. Flash TV
- 3. Big Television Network (BTN) TV
- 4. Authentic TV
- 5. Rwanda Television (RTV)
- 6. Isango Star TV
- 7. TV10
- 8. Victory TV
- 9. Prime TV
- 10. Buryohe TV
- 11. Isibo TV
- 12. KC2
- 13. Izuba TV

Disclaimer: These radio and TV stations coverage are simulated coverages using ICS telecom software. The data provided are for general information purposes only.