

Region	Country	Operator	LTE	LTE-Advanced	LTE-Advanced Pro	5G
<b>Africa</b>			<b>143</b>	<b>46</b>	<b>0</b>	<b>3</b>
	<b>Algeria</b>	<b>Total</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
		Algerie Telecom Mobile (Mobilis)	1	0	0	0
	Algeria	Ooredoo Algeria	1	0	0	0
	Algeria	Optimum Telecom Algerie (Djezzy)	1	0	0	0
	<b>Angola</b>	<b>Total</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>
	Angola	Movicel (Angola)	1	1	0	0
	Angola	Unitel (Angola)	1	1	0	0
	<b>Benin</b>	<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Benin	Moov Benin	1	0	0	0
	Benin	MTN Benin	1	0	0	0
	<b>Botswana</b>	<b>Total</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>
		Botswana Telecommunications Corporation (BTC)	1	0	0	0
	Botswana	Mascom Wireless	1	0	0	0
	Botswana	Orange Botswana	1	1	0	0
	<b>Burkina Faso</b>	<b>Total</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>
		Office Nationale des Telecommunications (Onatel)	1	1	0	0
	Burkina Faso	Orange Burkina Faso (formerly Airtel)	1	1	0	0
	<b>Burundi</b>	<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
		Econet Wireless (formerly Econet Leo)	1	0	0	0
	Burundi	Viettel Burundi (Lumitel)	1	0	0	0
	<b>Cameroon</b>	<b>Total</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>
	Cameroon	CamTel	1	0	0	0
	Cameroon	MTN Cameroon	1	0	0	0
	Cameroon	Orange Cameroon	1	1	0	0
	<b>Cape Verde</b>	<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Cape Verde	CV Movel	1	0	0	0
	Cape Verde	Unitel T+	1	0	0	0
	<b>Central African Rep</b>	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Chad</b>	<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Chad	Airtel Chad	1	0	0	0
	Chad	Tigo Chad	1	0	0	0
	<b>Comoros</b>	<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Comoros	Comores Telecom (Comtel)	1	0	0	0
	Comoros	Telma Comoros (Telco SA)	1	0	0	0
	<b>Congo, Dem. Rep.</b>	<b>Total</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>
	Congo, Dem. Rep.	Africell DRC	1	0	0	0
	Congo, Dem. Rep.	Airtel DRC	1	0	0	0
	Congo, Dem. Rep.	Orange DRC	1	0	0	0
	Congo, Dem. Rep.	Vodacom Congo (DRC)	1	0	0	0

<b>Congo, Rep.</b>	<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
Congo, Rep.	Airtel Congo	1	0	0	0
Congo, Rep.	MTN Congo (formerly Libertis Telecom)	1	0	0	0
<b>Côte d'Ivoire</b>	<b>Total</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
Côte d'Ivoire	Moov Cote d'Ivoire	1	0	0	0
Côte d'Ivoire	MTN Cote d'Ivoire (incl. MTN Business)	1	0	0	0
Côte d'Ivoire	Orange Cote d'Ivoire (incl. CI-Telecom)	1	0	0	0
<b>Djibouti</b>	<b>Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
Djibouti	Djibouti Telecom	1	0	0	0
<b>Egypt</b>	<b>Total</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>
Egypt	Etisalat Misr	1	0	0	0
Egypt	Orange Egypt	1	0	0	0
Egypt	Telecom Egypt	1	0	0	0
Egypt	Vodafone Egypt	1	0	0	0
<b>Equatorial Guinea</b>	<b>Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
Equatorial Guinea	GreenCom (Muni)	1	0	0	0
<b>Eritrea</b>	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Eswatini</b>	<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
Eswatini	Eswatini Mobile (Swazi Mobile)	1	0	0	0
Eswatini	MTN Swaziland	1	0	0	0
<b>Ethiopia</b>	<b>Total</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>
Ethiopia	Ethio Telecom	1	1	0	0
<b>Gabon</b>	<b>Total</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>
Gabon	Airtel Gabon	1	0	0	0
Gabon	Gabon Telecom	1	1	0	0
<b>Gambia</b>	<b>Total</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>
Gambia	Africell (Gambia)	1	1	0	0
Gambia	QCell	1	0	0	0
<b>Ghana</b>	<b>Total</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>
Ghana	MTN Ghana	1	1	0	0
Ghana	Vodafone Ghana	1	0	0	0
<b>Guinea</b>	<b>Total</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>
Guinea	Orange Guinea	1	1	0	0
<b>Guinea-Bissau</b>	<b>Total</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>
Guinea-Bissau	MTN Guinea-Bissau	1	0	0	0
Guinea-Bissau	Orange Bissau	1	1	0	0
<b>Kenya</b>	<b>Total</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>
Kenya	Airtel Kenya	1	0	0	0
Kenya	Jamii Telecommunications (Faiba)	1	0	0	0
Kenya	Safaricom	1	1	0	0
Kenya	Telkom Kenya	1	0	0	0
<b>Lesotho</b>	<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
Lesotho	Econet Telecom Lesotho (ETL)	1	0	0	0
Lesotho	Vodacom Lesotho	1	0	0	0

<b>Liberia</b>	<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
Liberia	Lonestar Cell-MTN	1	0	0	0
Liberia	Orange Liberia	1	0	0	0
<b>Libya</b>	<b>Total</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>
Libya	Almadar Aljaded (Al Madar Telecom Company)	1	1	0	0
Libya	Libyana	1	0	0	0
<b>Madagascar</b>	<b>Total</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>
Madagascar	Airtel Madagascar	1	0	0	0
Madagascar	Orange Madagascar	1	0	0	0
Madagascar	Telecom Malagasy (Telma)	1	1	0	0
<b>Malawi</b>	<b>Total</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>
Malawi	Airtel Malawi	1	0	0	0
Malawi	Telekom Networks Malawi (TNM)	1	1	0	0
<b>Mali</b>	<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
Mali	Orange Mali (formerly Ikatel)	1	0	0	0
Mali	SOTELMA (Malitel)	1	0	0	0
<b>Mauritania</b>	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Mauritius</b>	<b>Total</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
Mauritius	Cellplus Mobile Communications (my.t mobile)	1	0	0	0
Mauritius	Emtel	1	0	0	0
Mauritius	Mahanagar Telephone Mauritius (MTML, CHiLi)	1	0	0	0
<b>Mayotte</b>	<b>Total</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>0</b>
Mayotte	Maore Mobile	1	0	0	0
Mayotte	Orange Mayotte	1	1	0	0
Mayotte	SFR Mayotte	1	1	0	0
Mayotte	Telco OI Mayotte (Only)	1	0	0	0
<b>Morocco</b>	<b>Total</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>
Morocco	Maroc Telecom (IAM)	1	1	0	0
Morocco	Orange Morocco (formerly Meditel)	1	1	0	0
Morocco	Wana (Inwi)	1	1	0	0
<b>Mozambique</b>	<b>Total</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>
Mozambique	Movitel (Mozambique)	1	1	0	0
Mozambique	Vodacom Mozambique	1	1	0	0
<b>Namibia</b>	<b>Total</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>
Namibia	Mobile Telecommunications (MTC)	1	1	0	0
Namibia	Telecom Namibia (incl. TN Mobile)	1	1	0	0
<b>Niger</b>	<b>Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
Niger	Airtel Niger	1	0	0	0
<b>Nigeria</b>	<b>Total</b>	<b>8</b>	<b>4</b>	<b>0</b>	<b>0</b>
Nigeria	Airtel Nigeria	1	0	0	0
Nigeria	Bitflux Communications	1	1	0	0

	Emerging Markets				
	Telecommunication Services				
Nigeria	(9mobile)	1	0	0	0
Nigeria	Globacom (Glo Nigeria)	1	0	0	0
Nigeria	MTN Nigeria	1	1	0	0
Nigeria	ntel (formerly NITEL/M-Tel)	1	1	0	0
	Smile Communications				
Nigeria	(Nigeria)	1	0	0	0
Nigeria	VDT Communications	1	1	0	0
<b>Rwanda</b>	<b>Total</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>
	Airtel Rwanda (incl. Tigo				
Rwanda	Rwanda)	1	0	0	0
	KT Rwanda Networks (KTRN,				
	formerly Olleh Rwanda				
Rwanda	Networks)	1	1	0	0
Rwanda	Mango Telecom	1	0	0	0
Rwanda	MTN Rwanda	1	0	0	0
<b>Réunion</b>	<b>Total</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>0</b>
Réunion	Free Reunion (Telco OI)	1	1	0	0
Réunion	Orange Reunion	1	1	0	0
Réunion	SFR Reunion	1	1	0	0
Réunion	Zeop (Reunion)	1	0	0	0
<b>Sao Tome and Prin</b>	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Senegal</b>	<b>Total</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>
Senegal	Free Senegal (formerly Tigo)	1	1	0	0
Senegal	Orange Senegal	1	1	0	0
<b>Seychelles</b>	<b>Total</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>1</b>
Seychelles	Airtel Seychelles	1	0	0	0
Seychelles	Cable & Wireless Seychelles	1	1	0	1
<b>Sierra Leone</b>	<b>Total</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
Sierra Leone	Lintel SL (Africell SL)	1	0	0	0
Sierra Leone	Orange Sierra Leone	1	0	0	0
	Sierra Leone				
	Telecommunications Company				
Sierra Leone	(Sierratel)	1	0	0	0
<b>Somalia</b>	<b>Total</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>0</b>
Somalia	Golis Telecommunications	1	0	0	0
Somalia	Hormuud Telecom (HorTel)	1	0	0	0
Somalia	SomLink	1	0	0	0
Somalia	SomNet Telecom	1	0	0	0
Somalia	Somtel International	1	1	0	0
Somalia	Telesom	1	0	0	0
<b>South Africa</b>	<b>Total</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>2</b>
South Africa	Cell C	1	1	0	0
South Africa	MTN South Africa	1	1	0	1
South Africa	Rain (Multisource/WBS)	1	1	0	0
South Africa	Telkom South Africa	2	2	0	0
South Africa	Vodacom South Africa	1	1	0	1
<b>South Sudan</b>	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Sudan</b>	<b>Total</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>

Sudan	MTN Sudan	1	0	0	0
Sudan	Sudatel (Sudani)	1	1	0	0
Sudan	Zain Sudan	1	0	0	0
<b>Tanzania</b>	<b>Total</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>0</b>
Tanzania	Airtel Tanzania	1	0	0	0
Tanzania	Millicom Tanzania (Tigo)	1	1	0	0
Tanzania	Smile Communications (Tanzania)	1	0	0	0
Tanzania	Tanzania Telecommunication Corporation	1	1	0	0
Tanzania	Viettel Tanzania (Halotel)	1	0	0	0
Tanzania	Vodacom Tanzania Zanzibar Telecommunication (Zantel)	1	0	0	0
<b>Togo</b>	<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
Togo	Moov Togo	1	0	0	0
Togo	TogoCom (incl. Togo Telecom and Togocel)	1	0	0	0
<b>Tunisia</b>	<b>Total</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
Tunisia	Ooredoo Tunisia (incl. Tunet)	1	0	0	0
Tunisia	Orange Tunisia	1	0	0	0
Tunisia	Tunisie Telecom (TT)	1	0	0	0
<b>Uganda</b>	<b>Total</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>
Uganda	Africell Uganda (formerly Orange)	1	0	0	0
Uganda	Airtel Uganda	1	0	0	0
Uganda	MTN Uganda	2	0	0	0
Uganda	Smile Communications (Uganda)	1	0	0	0
<b>Western Sahara</b>	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Zambia</b>	<b>Total</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
Zambia	Airtel Zambia	1	0	0	0
Zambia	MTN Zambia	1	0	0	0
Zambia	Zambia Telecommunications Company (Zamtel)	1	0	0	0
<b>Zimbabwe</b>	<b>Total</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
Zimbabwe	Econet Wireless Zimbabwe (incl. ZOL, Liquid Telecom)	1	0	0	0
Zimbabwe	NetOne	1	0	0	0
Zimbabwe	Telecel Zimbabwe	1	0	0	0