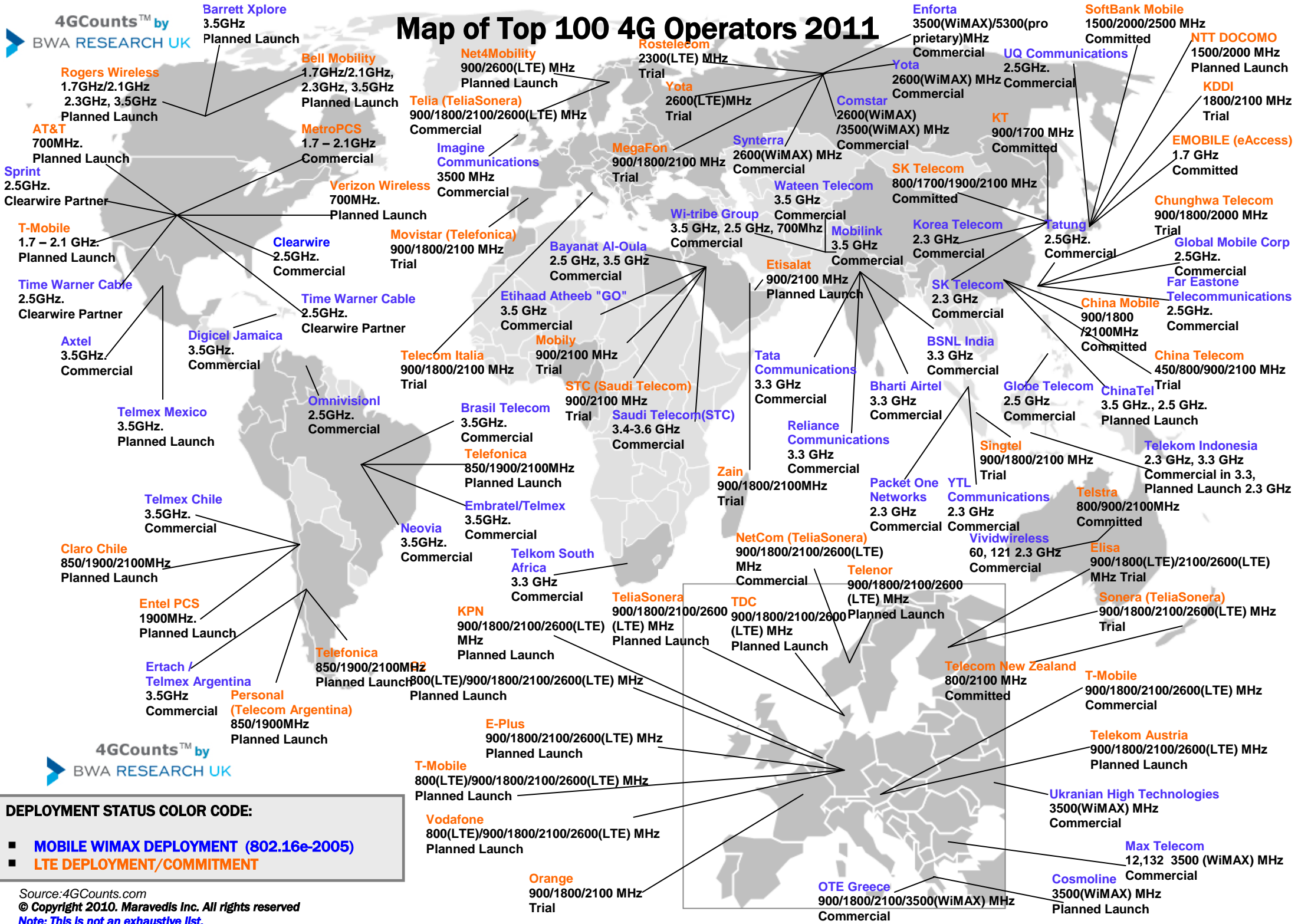


Map of Top 100 4G Operators 2011



DEPLOYMENT STATUS COLOR CODE:

- MOBILE WIMAX DEPLOYMENT (802.16e-2005)**
- LTE DEPLOYMENT/COMMITMENT**

Barrett Xplore
3.5GHz
Planned Launch

Rogers Wireless
1.7GHz/2.1GHz
2.3GHz, 3.5GHz
Planned Launch

AT&T
700MHz.
Planned Launch

Sprint
2.5GHz.
Clearwire Partner

T-Mobile
1.7 - 2.1 GHz.
Planned Launch

Time Warner Cable
2.5GHz.
Clearwire Partner

Axtel
3.5GHz.
Commercial

Digicel Jamaica
3.5GHz.
Commercial

Telmex Mexico
3.5GHz.
Planned Launch

Telmex Chile
3.5GHz.
Commercial

Claro Chile
850/1900/2100MHz
Planned Launch

Entel PCS
1900MHz.
Planned Launch

**Ertach /
Telmex Argentina**
3.5GHz
Commercial

**Personal
(Telecom Argentina)**
850/1900MHz
Planned Launch

4GCounts™ by
BWA RESEARCH UK

Bell Mobility
1.7GHz/2.1GHz,
2.3GHz, 3.5GHz
Planned Launch

MetroPCS
1.7 - 2.1GHz
Commercial

Verizon Wireless
700MHz.
Planned Launch

Clearwire
2.5GHz.
Commercial

Time Warner Cable
2.5GHz.
Clearwire Partner

**Imagine
Communications**
3500 MHz
Commercial

Movistar (Telefonica)
900/1800/2100 MHz
Trial

Telecom Italia
900/1800/2100 MHz
Trial

Brasil Telecom
3.5GHz.
Commercial

Telefonica
850/1900/2100MHz
Planned Launch

Embratel/Telmex
3.5GHz.
Commercial

Neovia
3.5GHz.
Commercial

**Telkom South
Africa**
3.3 GHz
Commercial

KPN
900/1800/2100/2600(LTE) MHz
Planned Launch

E-Plus
900/1800/2100/2600(LTE) MHz
Planned Launch

T-Mobile
800(LTE)/900/1800/2100/2600(LTE) MHz
Planned Launch

Vodafone
800(LTE)/900/1800/2100/2600(LTE) MHz
Planned Launch

Orange
900/1800/2100 MHz
Trial

Net4Mobility
900/2600(LTE) MHz
Planned Launch

Telia (TeliaSonera)
900/1800/2100/2600(LTE) MHz
Commercial

Rostelecom
2300(LTE) MHz
Trial

Yota
2600(LTE)MHz
Trial

MegaFon
900/1800/2100 MHz
Trial

Synterra
2600(WiMAX) MHz
Commercial

Wateen Telecom
3.5 GHz
Commercial

Wi-tribe Group
3.5 GHz, 2.5 GHz, 700MHz
Commercial

Etisalat
900/2100 MHz
Planned Launch

**Tata
Communications**
3.3 GHz
Commercial

**Reliance
Communications**
3.3 GHz
Commercial

Zain
900/1800/2100MHz
Trial

NetCom (TeliaSonera)
900/1800/2100/2600
MHz
Commercial

TDC
900/1800/2100/2600
(LTE) MHz
Planned Launch

TeliaSonera
900/1800/2100/2600
(LTE) MHz
Planned Launch

Telenor
900/1800/2100/2600
(LTE) MHz
Planned Launch

E-Plus
900/1800/2100/2600(LTE) MHz
Planned Launch

T-Mobile
800(LTE)/900/1800/2100/2600(LTE) MHz
Planned Launch

Vodafone
800(LTE)/900/1800/2100/2600(LTE) MHz
Planned Launch

Orange
900/1800/2100 MHz
Trial

Enforta
3500(WiMAX)/5300(pro
proprietary)MHz
Commercial

Yota
2600(WiMAX) MHz
Commercial

Comstar
2600(WiMAX)
/3500(WiMAX) MHz
Commercial

SK Telecom
800/1700/1900/2100 MHz
Committed

UQ Communications
2.5GHz.
Commercial

SoftBank Mobile
1500/2000/2500 MHz
Committed

NTT DOCOMO
1500/2000 MHz
Planned Launch

KDDI
1800/2100 MHz
Trial

EMOBILE (eAccess)
1.7 GHz
Committed

Chunghwa Telecom
900/1800/2000 MHz
Trial

Global Mobile Corp
2.5GHz.
Commercial

**Far Eastone
Telecommunications**
2.5GHz.
Commercial

China Mobile
900/1800
/2100MHz
Committed

China Telecom
450/800/900/2100 MHz
Trial

Telekom Indonesia
2.3 GHz, 3.3 GHz
Commercial in 3.3,
Planned Launch 2.3 GHz

Telstra
800/900/2100MHz
Committed

Elisa
900/1800(LTE)/2100/2600(LTE)
MHz Trial

Sonera (TeliaSonera)
900/1800/2100/2600(LTE) MHz
Trial

Telecom New Zealand
800/2100 MHz
Committed

T-Mobile
900/1800/2100/2600(LTE) MHz
Commercial

Telekom Austria
900/1800/2100/2600(LTE) MHz
Planned Launch

Ukrainian High Technologies
3500(WiMAX) MHz
Commercial

Max Telecom
12,132 3500 (WiMAX) MHz
Commercial

Cosmoline
3500(WiMAX) MHz
Planned Launch

OTE Greece
900/1800/2100/3500(WiMAX) MHz
Commercial