



# **GSA REPORT TO 3GPP PCG #19 Brasilia**

**December 17, 2007**



# Recent Activities and Results

## Program for 2008



# Reporting on the commercialization of 3GPP Systems



**GSA researches/publishes regular surveys for the industry , providing:**

- Key facts and evidence**
- Relevant data points**
- Market intelligence**
- Analysis**
- Charts**

**Including:**

- WCDMA-HSPA network commitments, launches, deployments**
- GSM/EDGE network commitments, launches, deployments**
- GSM/EDGE, WCDMA-HSPA devices launches and availability**
- 3G services and trends**
- Mobile broadband success stories**

# Resources

... include:



**GSM/3G Market Update**

**GSM/3G Network Update**

**3G/WCDMA-HSPA Fact Sheet**

**HSDPA Operator Commitments**

**HSDPA devices**

**EDGE Fact Sheet**

**Information papers**

**Services and success stories**

**Press releases (24 issued in 2007)**



*Latest GSM/3G Network Update available in English, Spanish and Portuguese*

# Information papers



*Explaining 3GPP systems, technologies, benefits, opportunities, market developments*

**Common IMS**

**Dual Transfer Mode – DTM**

**EDGE Evolution**

**Long Term Evolution of the 3GPP Radio Technology**

**NGMN: Next Generation Mobile Networks**

**UMTS 900**

**... more topics under development**

[www.gsacom.com](http://www.gsacom.com)

Global mobile Suppliers Association © 2007

# GSA Mobile Broadband Forum



**By-invitation event for mobile operators, GSA member companies**

**Focuses on mobile broadband success stories, business models, services, applications, technologies, growing traffic and ARPU, how to prepare the market, market experiences**

- ❑ launched in Hong Kong on December 3rd, 2007**
- ❑ included operator participation and experiences from Australia, Germany, Hong Kong, New Zealand, Singapore, Sweden and UK**
- ❑ also included a presentation by Adrian Scrase, 3GPP and ETSI**
- ❑ aims achieved; dialogue, information exchange, knowledge sharing**
- ❑ follow-up process ensures continued dialogue**

# Key GSA website metrics

[www.gsacom.com](http://www.gsacom.com)



Visitors from **177** countries

Key channel to targeted audience  
worldwide

Thousands of “registered users”  
added in 2007  
gaining 400-500/month

Approx. 10,000 documents/charts  
downloads every month

RSS newsfeed a success

Mobile site accesses doubled  
<http://gsacom.mobi>

# Fast Facts

Download this chart at [www.gsacom.com/news/statistics.php4](http://www.gsacom.com/news/statistics.php4)

Over 960 million GSM, WCDMA and HSPA subs in commercial HSPA-enabled networks globally



The GSM technology family embraces GPRS, EDGE, WCDMA-HSPA – all open 3GPP standards

2.686 billion GSM, WCDMA subs Q3 07

GSM, WCDMA has 86.1% market share Q3 07  
(Q2 06 = 82.2%)

> 158 million WCDMA subs including HSPA Q3 07

Over 70% of 450 + commercial GPRS operators globally committed to EDGE

316 GSM/EDGE network commitments in 149 countries; 257 network launches, 123 countries

700 + GSM/EDGE devices launched (October 2007)

Most WCDMA-HSPA networks combine with EDGE for service continuity, best user experience

190 3G/WCDMA networks launched, 83 countries = 70% share of all commercial 3G networks

800 + WCDMA user devices launched, 90 + suppliers

195 HSDPA network commitments in 85 countries, including 154 commercial launches, 71 countries

81% launched WCDMA networks launched HSDPA

HSDPA is mainstream:

403 devices launched by 80 suppliers

275 devices launched in 2007

75 devices support tri-band 850/1900/2100

86 HSDPA networks launched 3.6 Mbps (peak) or higher in 47 countries = 55% of commercial HSDPA networks.

147 HSDPA devices support 3.6 Mbps

29 networks launched 7.2 Mbps (peak); 63 devices

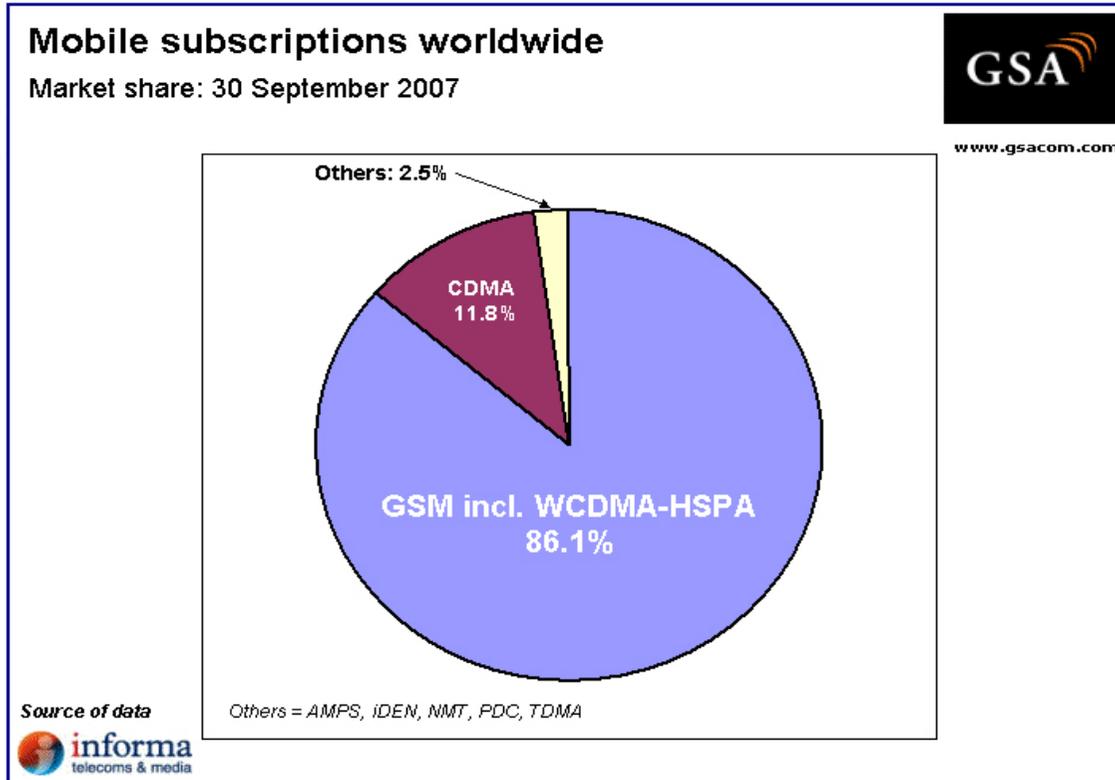
24 HSUPA network launches; 21 more commitments; 33 HSUPA devices launched

Network deployments, devices data source: GSA surveys  
Mobile subscribers data source: Informa Telecoms & Media

[www.gsacom.com](http://www.gsacom.com)

Global mobile Suppliers Association © 2007

# The global GSM success story



**GSM market share increased 2.2% since Dec 06**

Download this chart at [www.gsacom.com/news/statistics.php4](http://www.gsacom.com/news/statistics.php4)

APAC: 1.06 billion GSM, WCDMA-HSPA subscriptions

Western Europe: 517 million GSM, WCDMA-HSPA subscriptions

Latin America: 276 million GSM, WCDMA-HSPA subscriptions

Africa: 248.6 million GSM subscriptions, including > 2.2 million using WCDMA

Russia: 13.4 million growth Jan – Sep 07

Brazil: 19.6 million growth Jan – Sep 07

China & India combined growth of 103 million Jan – Sep 07

# WCDMA has 70% market share of commercial 3G networks worldwide

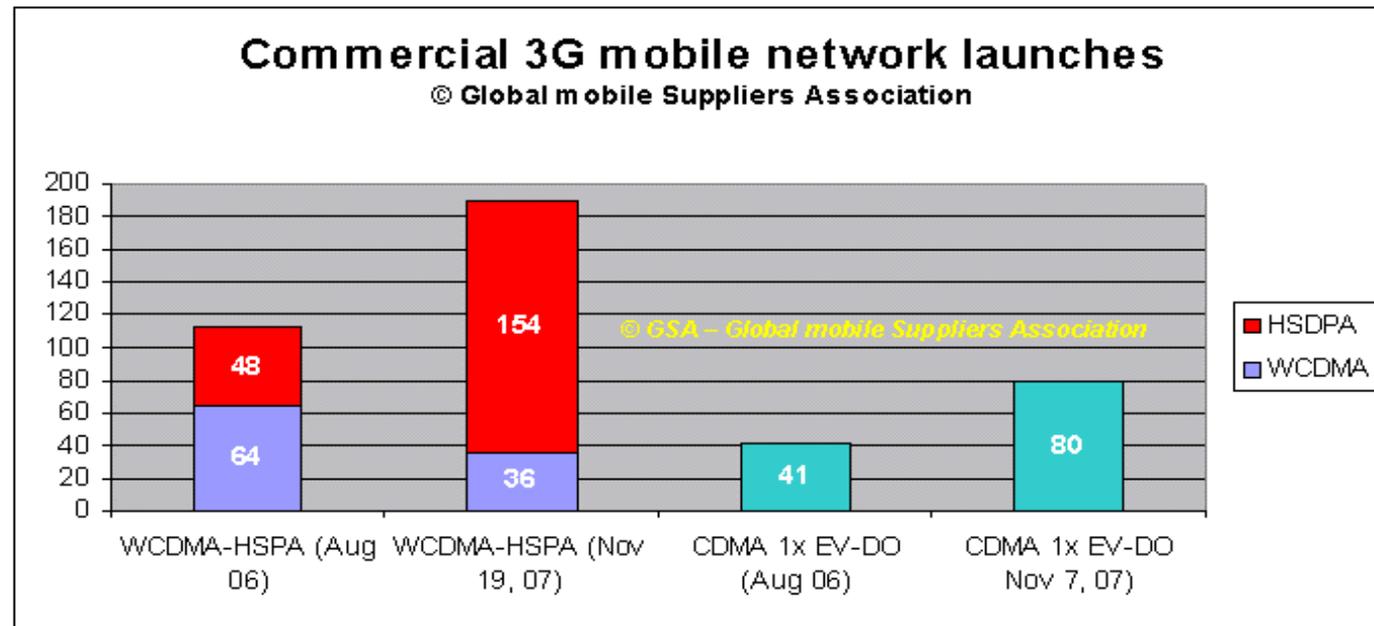


## WCDMA-HSPA leads the 3G mobile world

**WCDMA has 70% market share of 270 commercially launched 3G networks**



[www.gsacom.com](http://www.gsacom.com)



WCDMA commercial network launches as quoted by GSA  
CDMA 1xEV-DO commercial network launches as quoted by CDG

[Download this chart at www.gsacom.com/news/statistics.php4](http://www.gsacom.com/news/statistics.php4)

[www.gsacom.com](http://www.gsacom.com)

Global mobile Suppliers Association © 2007

# Network speed evolution



**95 HSDPA networks committed to 3.6 Mbps peak or higher; 86 commercial launches**

Australia	3 Australia	3.6 launched
Australia	Telstra	7.2 launched; "14.4 ready"
Australia	Vodafone	3.6 launched
Australia	Optus	3.6 launched
Austria	Mobilkom	3.6 launched; 7.2 launched
Austria	T-Mobile	3.6 launched
Austria	ONE	3.6 launched; 7.2 in areas
Austria	3 Austria	3.6 launched; 7.2 areas
Belgium	Proximus	3.6 launched
Brazil	Telemig Celular	3.6 in deployment
Brazil	Claro	3.6 launched
Bulgaria	Mobitel (M-TEL)	3.6 launched; 7.2 in Sofia
Canada	Rogers Wireless	3.6 launched; 7.2 trial
Chile	Entel PCS	3.6 launched
Croatia	VIPNet	3.6 launched; deploying 14.4
Denmark	3 Denmark	3.6 launched
Denmark	Sonofon	3.6 launched
Denmark	TDC Mobil	3.6 launched
Egypt	Etsalat Misr	3.6 launched
Finland	Elisa	3.6 launched; deploying 14.4
France	SFR	3.6 launched
France	Bouygues Telecom	3.6 launched
Germany	T-Mobile	3.6 launched; 7.2 launched
Germany	Vodafone	3.6 launched; 7.2 launched
Ghana	Cenotel	3.6 launched
Hong Kong	Smartone-Vodafone	3.6 launched; 7.2 launched
Hong Kong	3 Hong Kong	3.6 launched
Hungary	T-Mobile	3.6 launched; 7.2 launched
Hungary	Pannon	3.6 launched
Hungary	Vodafone	3.6 launched
Iceland	Siminn	7.2 launched
Indonesia	Indosat IM2	3.6 launched
Indonesia	Satelindo	3.6 launched; deploying 7.2
Ireland	O2	3.6 launched
Ireland	3 Ireland	3.6 launched
Ireland	Vodafone	3.6 launched; deploying 7.2
Isle of Man	Manx Telecom	3.6 launched
Israel	Celcom	3.6 launched; deploying 14.4
Israel	Partner	3.6 in deployment
Italy	TIM	3.6 launched; 7.2 launched
Italy	Vodafone Italy	3.6 launched
Italy	3	3.6 launched
Japan	NTT DoCoMo	3.6 launched; deploying 7.2
Japan	eMobile	3.6 launched
Jersey	Sure Mobile	3.6 in deployment
Kuwait	Zain	Deploying 7.2
Latvia	Bite	7.2 launched
Latvia	LMT	3.6 launched
Latvia	Tele2	3.6 launched
Liechtenstein	Orange	3.6 launched
Liechtenstein	FL1 (Mobilkom)	Deploying up to 14.4
Lithuania	Bite	7.2 launched
Macau	CTM	3.6 launched
Macau	Hutchison 3	3.6 launched
Malta	Go Mobile	3.6 launched
Morocco	Meditel	3.6 launched
Netherlands	Vodafone	7.2 in deployment
New Zealand	Vodafone	3.6 launched in 3 major cities
Norway	Telenor	3.6 launched
Norway	Nelcom	3.6 launched
Poland	Pelkomtel	3.6 launched; 7.2 some cities
Poland	Orange	3.6 launched; 7.2 some cities
Portugal	Optimus	3.6 launched; 7.2 some cities
Portugal	TMN	3.6 launched; 7.2 some cities
Portugal	Vodafone	3.6 launched; 7.2 some cities
Romania	Orange	3.6 launched
Romania	Vodafone	3.6 launched; deploying 7.2
Russia	Megafon St Petersburg	3.6 launched
Saudi Arabia	Mobily	7.2 launched
Singapore	M1	3.6 launched; now 10.0
Singapore	SingTel Mobile	3.6 launched
Singapore	StarHub	7.2 launched
Slovenia	Mobitel	3.6 launched
Slovenia	Si mobil-Vodafone	3.6 launched
South Africa	MTN	3.6 in deployment
South Africa	Vodacom	3.6 in deployment
South Korea	KTF	3.6 launched
South Korea	SK Telecom	3.6 launched
Spain	Movistar	7.2 launched
Spain	Vodafone	3.6 launched
Sweden	3 Sweden	7.2 launched
Sweden	Telenor Sverige	7.2 launched
Sweden	TeliaSonera	7.2 launched
Sweden	Tele2	7.2 launched
Switzerland	Swisscom	3.6 launched; 7.2 launched
Switzerland	Sunrise	3.6 launched; deploying 7.2
Taiwan	Vibo Telecom	3.6 launched; 7.2 launched
Taiwan	ChungHwa Telecom	3.6 launched; deploying 7.2; 10.7
Taiwan	FarEasTone	3.6 launched
Tajikistan	Tacom	3.6 launched
UK	T-Mobile	3.6 in deployment
UK	Vodafone	7.2 launched in some areas
UK	3	3.6 launched
Uruguay	Movistar	3.6 launched
USA	AT&T Wireless	3.6 launched
GSA		3.6 Mbps (peak) or higher HSDPA network launches
Nov 19, 2007		86 networks; 47 countries
GSA		7.2 Mbps (peak) or higher HSDPA network launches
Nov 19, 2007		29 networks; 19 countries

- ❑ 3.6 Mbps is the new benchmark in downlink peak speed for mobile broadband using HSPA
- ❑ The majority (55%) of commercial HSDPA networks support 3.6 Mbps peak or greater
- ❑ 95 operators have launched or are deploying 3.6 Mbps capability as the first phase for many of the planned evolution to 14.4 Mbps
- ❑ 86 networks have launched 3.6 Mbps peak in 47 countries, including 29 networks supporting 7.2 Mbps or higher in 19 countries
- ❑ 24 HSUPA networks commercially launched

Copyright © GSA - Global mobile Suppliers Association  
 GSA • PO Box 5817 • Sawbridgeworth • CM21 0BH • UK  
 Phone +44 1279 439 667 • e-mail: info@gsacom.com

www.gsacom.com

GSA HSDPA Operator Commitments survey – November 19, 2007

[www.gsacom.com/gsm\\_3g/wcdma\\_databank.php4#HSDPA\\_Operator\\_Commitments](http://www.gsacom.com/gsm_3g/wcdma_databank.php4#HSDPA_Operator_Commitments)

www.gsacom.com

Global mobile Suppliers Association © 2007

# HSDPA devices are mainstream

**403** HSDPA devices launched: **275** launched so far in 2007

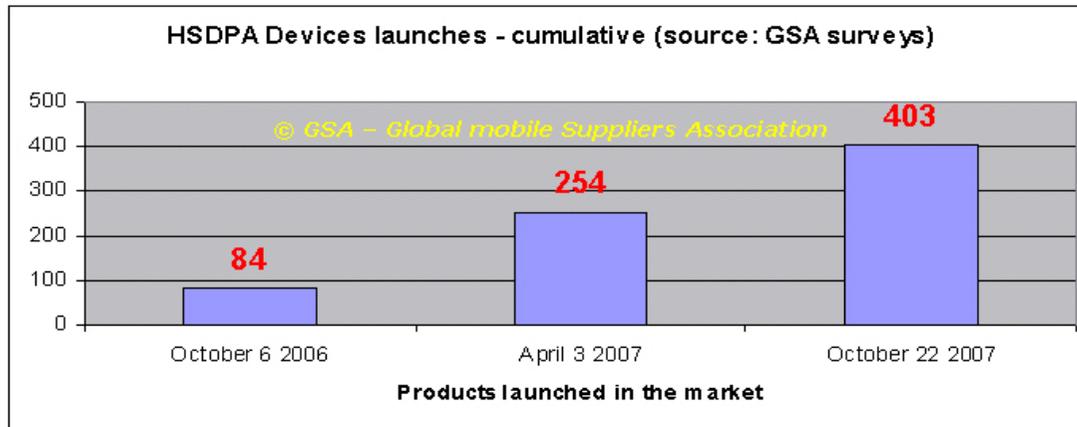
GSA HSDPA Devices survey – October 22, 2007

[www.gsacom.com/gsm\\_3g/wcdma\\_databank.php4#HSDPA\\_Devices](http://www.gsacom.com/gsm_3g/wcdma_databank.php4#HSDPA_Devices)



## HSDPA Devices in the market

*403 devices launched by 80 suppliers*



*HSDPA devices are mainstream*

- 80 suppliers
- 147 devices support or can be upgraded for 3.6 Mbps peak working
- 63 devices support or can be upgraded for 7.2 Mbps peak working
- 121 HSDPA devices operate in 850 MHz
- 91 HSDPA devices operate in 1900 MHz
- 75 tri-band 850/1900/2100 MHz devices
- 33 HSUPA devices
- 70% of HSDPA devices support EDGE

Download chart at [www.gsacom.com/news/statistics.php4](http://www.gsacom.com/news/statistics.php4)

# 2008 Program



Continue delivery of relevant industry data and market intelligence

- expand scope and content
- analysis of the main trends and opportunities

Evolve series of Information Papers

Organize GSA Mobile Broadband Forum events

Support and work with key partners

- industry representatives
- in the regions
- globally



[www.gsacom.com](http://www.gsacom.com)

RSS newsfeed <http://www.gsacom.com/rss/gsanews.php4>

Mobile site <http://gsacom.mobi>