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Subject: Broadband access in the EU: situation at 1 July 2008

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European Commission
Information Society and Media



Broadband access in the EU as at 1 July 2008

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DEFINITIONS

Definitions used in the tables for the collection of data:

- Fully unbundled lines: Fully unbundled lines supplied to other operators, excluding experimental lines. In the case of full unbundling, a copper pair is rented to a third party for its exclusive use.
- Shared access lines supplied by the incumbent to new entrants: Shared access lines supplied to other operators, excluding experimental lines. In the case of shared access, the incumbent continues to provide telephony service, while the new entrant delivers high-speed data services over that same local loop.
- Bitstream access: Supplied to new entrants. Bitstream access refers to the situation where the incumbent installs a high-speed access link to the customer premises and then makes this access link available to third parties, to enable them to provide high-speed services to customers. Bitstream depends in part on the PSTN and may include other networks such as the ATM network, and bitstream access is a wholesale product that consists of the provision of transmission capacity in such a way as to allow new entrants to offer their own, value-added services to their clients. The incumbent may also provide transmission services to its competitor, to carry traffic to a 'higher' level in the network hierarchy where new entrants may already have a broadband point of presence.
- Simple resale: In contrast to bitstream access, simple resale occurs where the new entrant receives and sells on to end users - with no possibility of value added features to the DSL part of the service - a product that is commercially similar to the DSL product provided by the incumbent to its own retail customers, irrespective of the ISP service that may be packaged with it. Resale offers are not a substitute for bitstream access because they do not allow new entrants to differentiate their services from those of the incumbent (i.e. where the new entrant simply resells the end-to-end service provided to him by the incumbent on a wholesale basis).
- Incumbent's DSL lines: Provided to end users by the incumbent, its subsidiaries or partners (for example an associated company such a joint venture providing ISP services),
- WLL: Internet broadband connections by means of wireless local loop (sometimes referred to as fixed wireless access)
- Cable modem: Internet broadband connections by means of cable TV access
- L.L. (other traditional wireline access): Internet broadband connections by means of dedicated capacity (Leased Lines) provided over metallic copper pairs, including tail ends or partial circuits. "Incumbent's leased lines" includes only retail lines and excludes lines provided to other operators. "New entrants' leased lines" includes all retail lines provided to end users, even if based on wholesale lines supplied by the incumbent.
- Other: Internet broadband connections by means of 3G, satellite, fibre optic, powerline communications, etc.
- Retail access: Access provided to end users.
- Incumbents are defined as the organisations enjoying special and exclusive rights or *de facto* monopoly for provision of voice telephony services before liberalisation, regardless of the role played in the provision of access by means of technologies alternative to the PSTN.
- "New entrants" refers to alternative telecommunications operators, as well as internet service providers (ISPs).
- Broadband capacity: Downstream capacity equal to or higher than 144 Kbit/s
- Mobile BB lines - access to dedicated data services via data modems/cards/USB keys or a number of active users involved in transactions, made in last 90 days, whereby a user accessed advanced data services such as web/internet content,

online multiplayer gaming content, VoD or other equivalent advanced data services (excluding SMS and MMS).

METHODOLOGY

The data in this document have been collected by the European Commission, Information Society and Media Directorate General, from national ministries and regulatory authorities. The definitions used have been agreed in the Communications Committee (COCOM).

Throughout the document broadband lines are defined as those with capacity equal to or higher than 144 Kbit/s.

Data refer to 1 July 2008.

In some cases information for some types of access is not available. In a number of countries certain figures are estimates, as the National Regulatory Authorities had not received consolidated data from operators. It should also be noted that in some cases information only refers to major broadband access providers and that broadband access lines provided by other small operators are not included.

The charts and tables in this document include primarily fixed broadband lines. Data on mobile broadband access is also available (Annex 3), however data has been provided by a limited number of countries. Data on speeds, which is also partially available, is displayed in Annex 4.

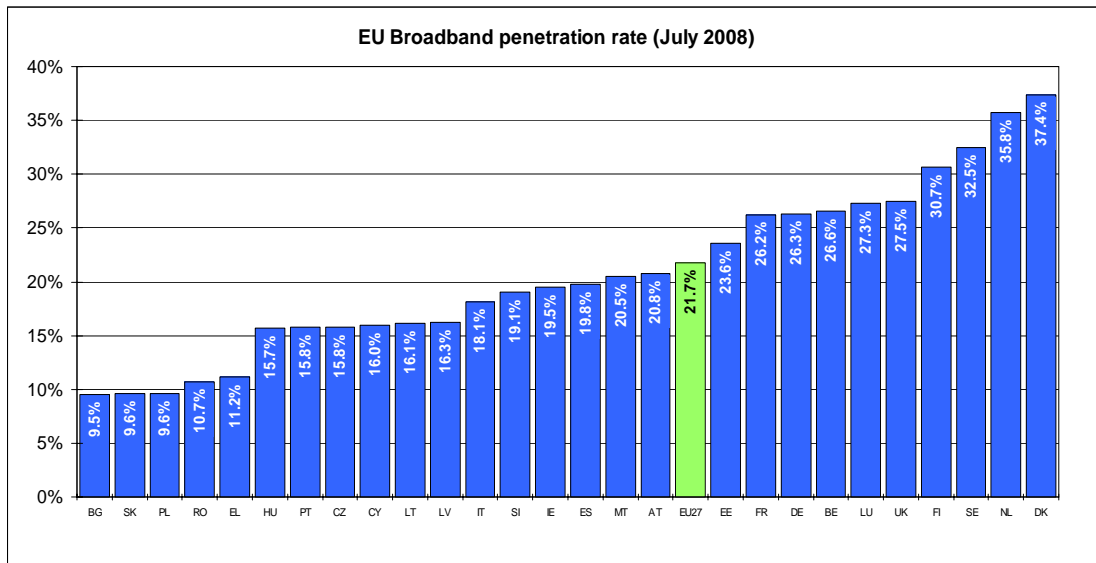
This report includes information from all 27 Member States.

Given the non-availability of data pre-ceding 1 January 2007, no trends could be established for Bulgaria and Romania.

EU OVERVIEW

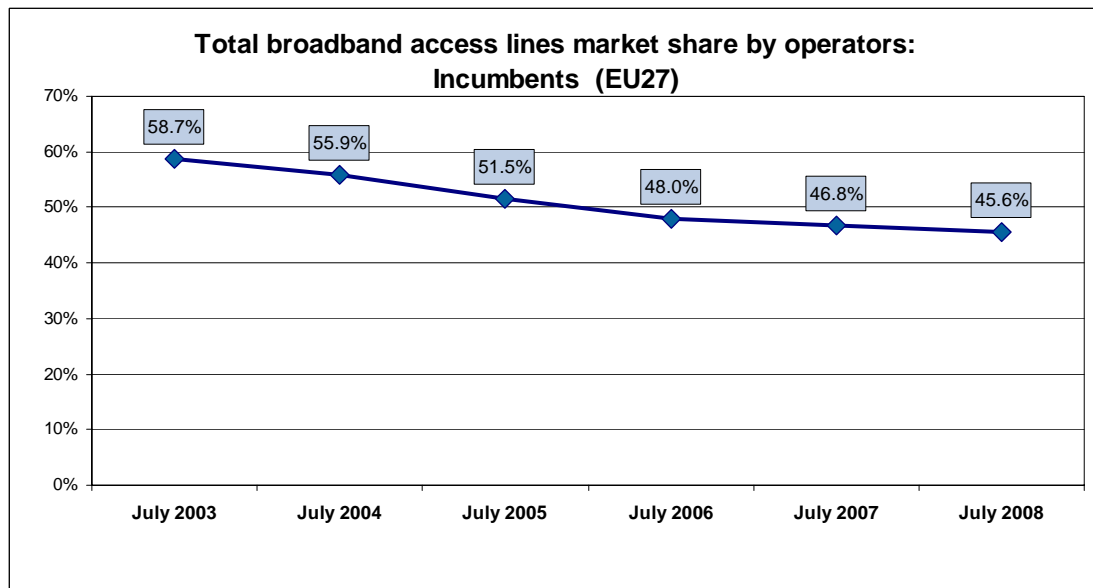
There were 107 601 796 fixed broadband lines in the EU on 1 July 2008, a 7.8% increase since 1 January 2008. Of these lines, 85 872 936 were DSL lines (79.8% of total) and 21 728 860 (20.2%) were provided using other transmission means, predominately cable modem.

At EU level the fixed penetration rate, which measures the number of broadband lines per 100 population, is 21.7%, up 3.5 percentage points from a year ago (18.2%).

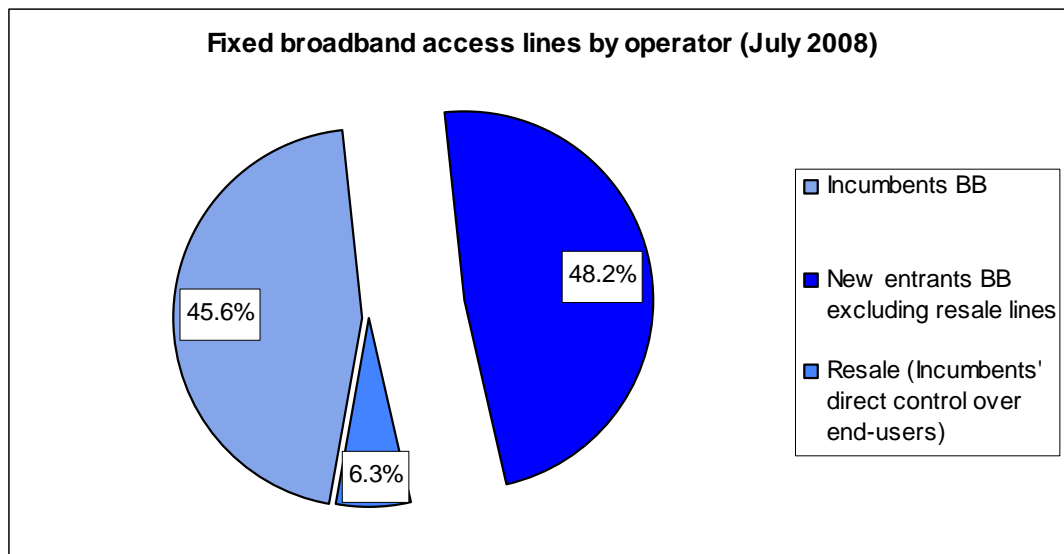


DK penetration has been corrected after deadline for submission of data. Actual DK penetration is lower and stands at 37.2%.

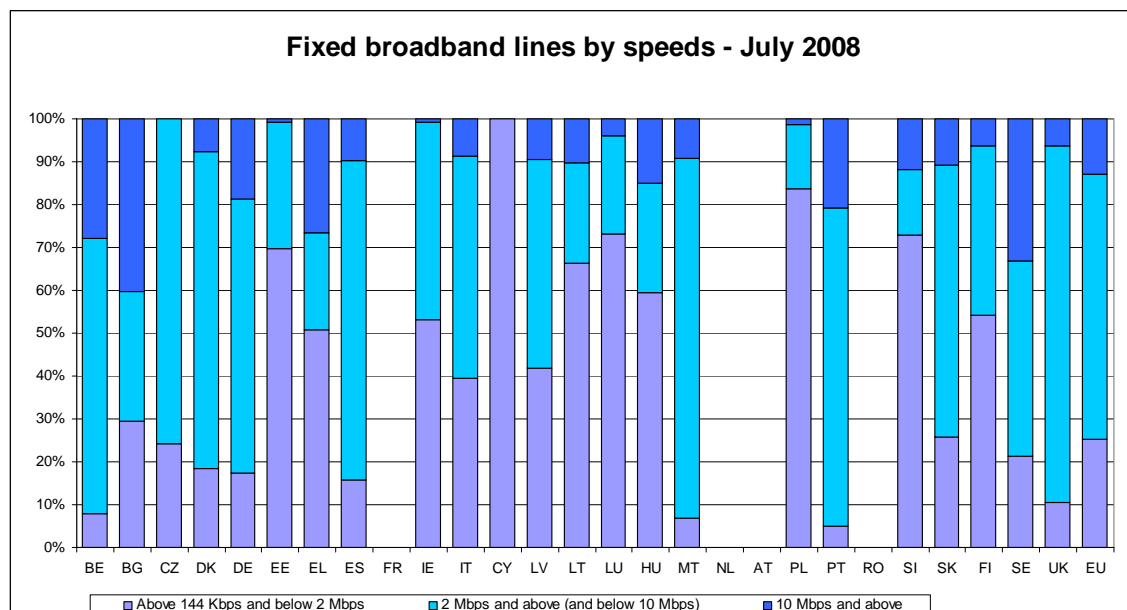
Incumbent fixed operators provided 45.6% of these lines, continuing the downward trend recorded since 2003. However, this figure was 55.9% in July 2004, 51.5% in July 2005, 48.0% in July 2006 and 46.8% in July 2007, revealing that decrease has been clearly slower for the last two years.



Incumbents' control over end-users is still over 50% of the market share in the EU.



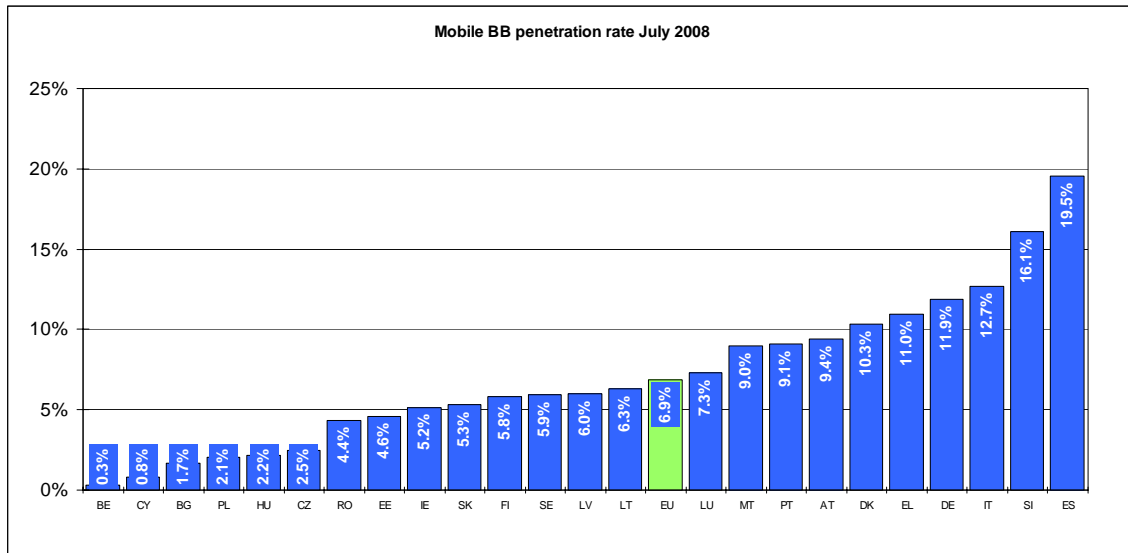
Regarding speeds, 62.0% of reported fixed broadband lines are in the range of 2 Mbps and below 10 Mbps, 25.1% of reported lines are in the range of 144 Kbps and below 2 Mbps, whereas 12.8% of the lines are in the range of speeds beyond 10 Mbps.



Data is missing in part for some Member States, while some countries failed to provide any data (France, the Netherlands, Austria and Romania). About three quarters of retail lines available in July 2008 are presented above.

There were 34 040 166 mobile broadband active users (subscribers) in the EU reported on 1 July 2008. This does not include France, the Netherlands and the UK which have not reported on this category. According to the agreed methodology, mobile broadband active users are users using broadband dedicated data services via data modems/cards/keys and other active 3G equivalent users using mobile terminals in last 90 days.

At national level the mobile penetration rate, which measures the number of mobile broadband active users per 100 population, ranged from less than 1% to nearly 20%. The average EU penetration level is at 6.9%. The number of mobile broadband connections using only dedicated data cards/modems/keys is significantly lower (around 2 to 3%).



Data is missing in part for some Member States, while some countries failed to provide any data. In addition, it appears that data provided is not of the same quality for all countries.

RETAIL FIXED BROADBAND LINES

In the period between July 2007 and July 2008 a total of 17 401 474 new broadband lines were added, an increase of 19.3%. Both in relative and in absolute terms the growth failed to keep up with the growth recorded between July 2006 and July 2007 (31.4% and 21 548 743 lines).

In the period July 2007-July 2008, 76.9% of the new lines were by means of xDSL technologies, while 23.1% were connections using other type of technologies, which represents a 4.7 percentage point growth of access lines by other means compared to July 2006-July 2007 period (81.6% of new lines were DSL and 18.4% were non-DSL lines).

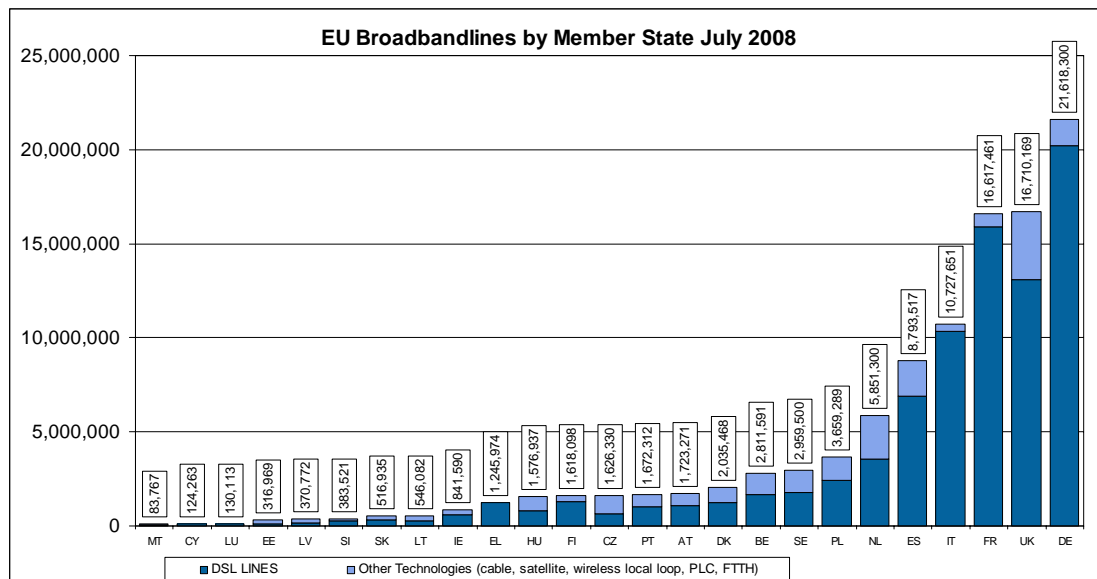
Table 1 shows how the broadband lines in the EU were distributed between the EU Member States at 1 July 2005, 1 January 2006, 1 July 2006, 1 January 2007, 1 July 2007, 1 January 2008 and 1 July 2008.

Table 1 Retail broadband lines in the EU by country

	July 2005	January 2006	July 2006	January 2007	July 2007	January 2008	July 2008
BE	1 804 133	2 010 584	2,172,246	2 354 850	2,509,456	2,714,335	2,811,591
BG	N/A	N/A	N/A	345 577	435,199	580,226	730,373
CZ	436 000	650 000	860,508	1 087 520	1,252,269	1,497,420	1,626,330
DK	1 188 431	1 337 587	1,606,531	1 703 605	2,025,538	1,961,164	2,035,468
DE	8 435 369	10 558 100	12,608,400	14 902 200	17,401,503	19,579,000	21,618,300
EE	150 246	179 104	222,987	246 887	268,586	298,291	316,969
EL	93 583	160 113	297,090	487 889	760,858	1,017,475	1,245,974
ES	4 240 339	5 026 933	5,784,862	6 652 665	7,480,342	8,155,021	8,793,517
FR	8 322 442	9 950 561	11,297,543	12 816 164	14,117,236	15,687,000	16,617,461
IE	177 121	276 860	372,172	517 324	652,832	752,856	841,590
IT	5 521 374	6 896 696	7,690,503	8 497 422	9,402,180	10,122,126	10,727,651
CY	18 967	47 090	50,566	68 014	86,260	107,556	124,263
LV	85 381	131 329	155,738	241 550	263,602	343,076	370,772
LT	170 619	234 046	286,059	359 564	431,449	507,719	546,082
LU	53 049	70 436	80,105	98 765	112,927	120,973	130,113
HU	457 557	619 712	760,271	995 784	1,172,067	1,428,726	1,576,937
MT	41 551	51 289	51,943	50 493	56,400	68,950	83,767
NL	3 642 315	4 113 573	4,741,829	5 192 200	5,418,971	5,587,600	5,851,300
AT	937 830	1 176 183	1,310,096	1 440 180	1,524,854	1,655,519	1,723,271
PL	710 726	1 015 841	1,504,274	1 994 460	2,605,958	3,199,663	3,659,289
PT	1 054 553	1 222 301	1,359,744	1 470 810	1,565,869	1,596,644	1,672,312
RO	N/A	N/A	N/A	1 087 424	1,424,007	1,949,021	2,310,243
SI	156 669	196 686	228,962	279 660	307,985	347,492	383,521
SK	80 385	137 927	215,303	279 635	372,393	476,666	516,935
FI	974 614	1 171 363	1,308,459	1 426 351	1,518,428	1,619,029	1,618,098
SE	1 533 647	1 865 676	2,069,685	2 347 850	2,575,700	2,842,500	2,959,500
UK	8 063 111	9 888 626	11,615,703	13 102 298	14,464,253	15,630,005	16,710,169
EU	48 350 012	58 988 616	68,651,579	80 118 923	90,200,322	99,846,053	107,601,796

Figure 1 shows the distribution of broadband lines by country, Figure 2 presents this distribution in percentage terms at 1 July 2008, and Figure 3 shows the growth rate since January 2003.

Figure 1 EU countries by number of broadband lines



Germany accounts for 20.1% of all broadband lines, followed by the UK and France, with 15.5% and 15.4% respectively. These three countries represent 51.0% of all EU broadband connections. Italy, Spain and the Netherlands follow.

Figure 2 EU distribution of broadband lines by country (% of broadband lines)

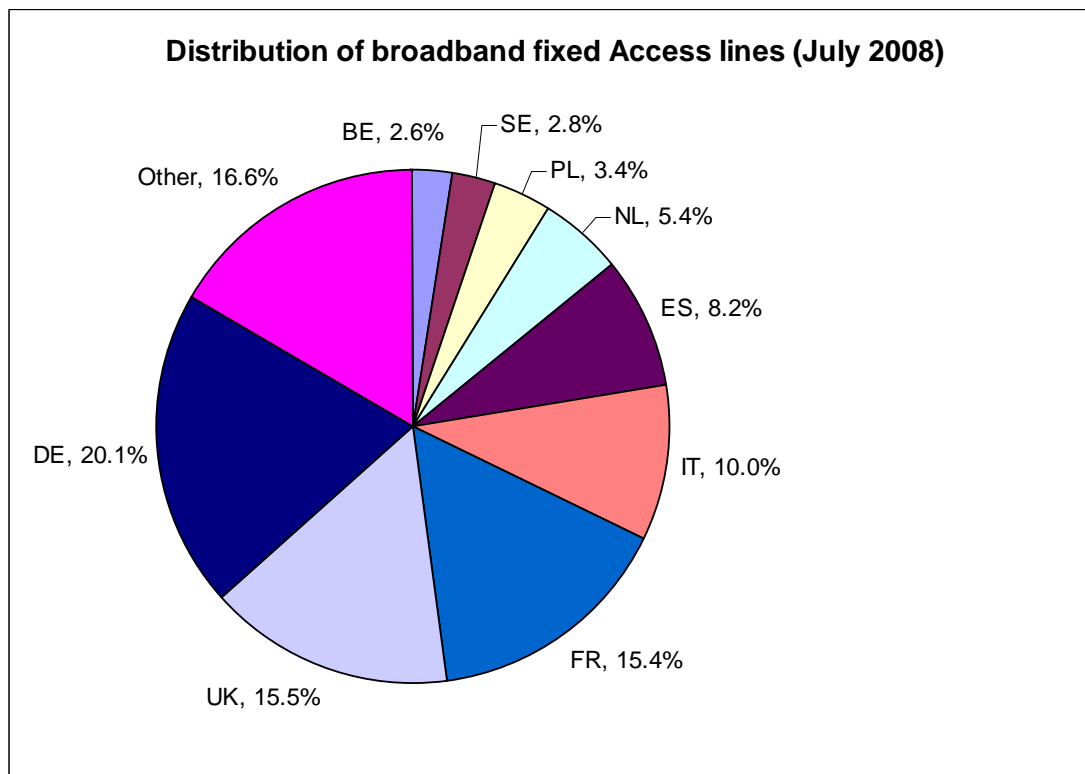
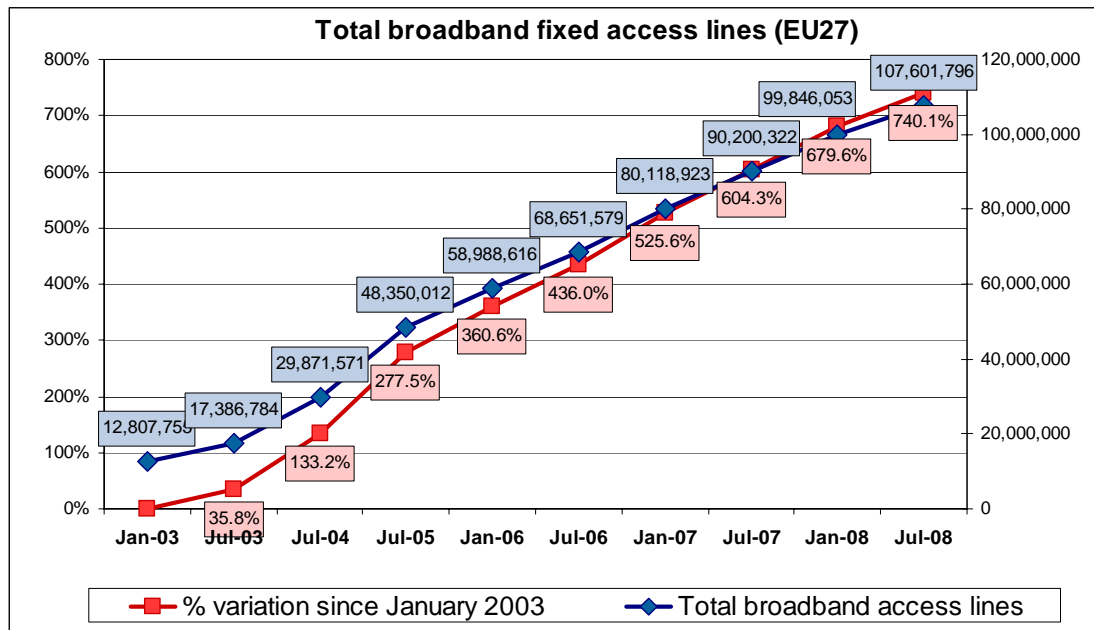


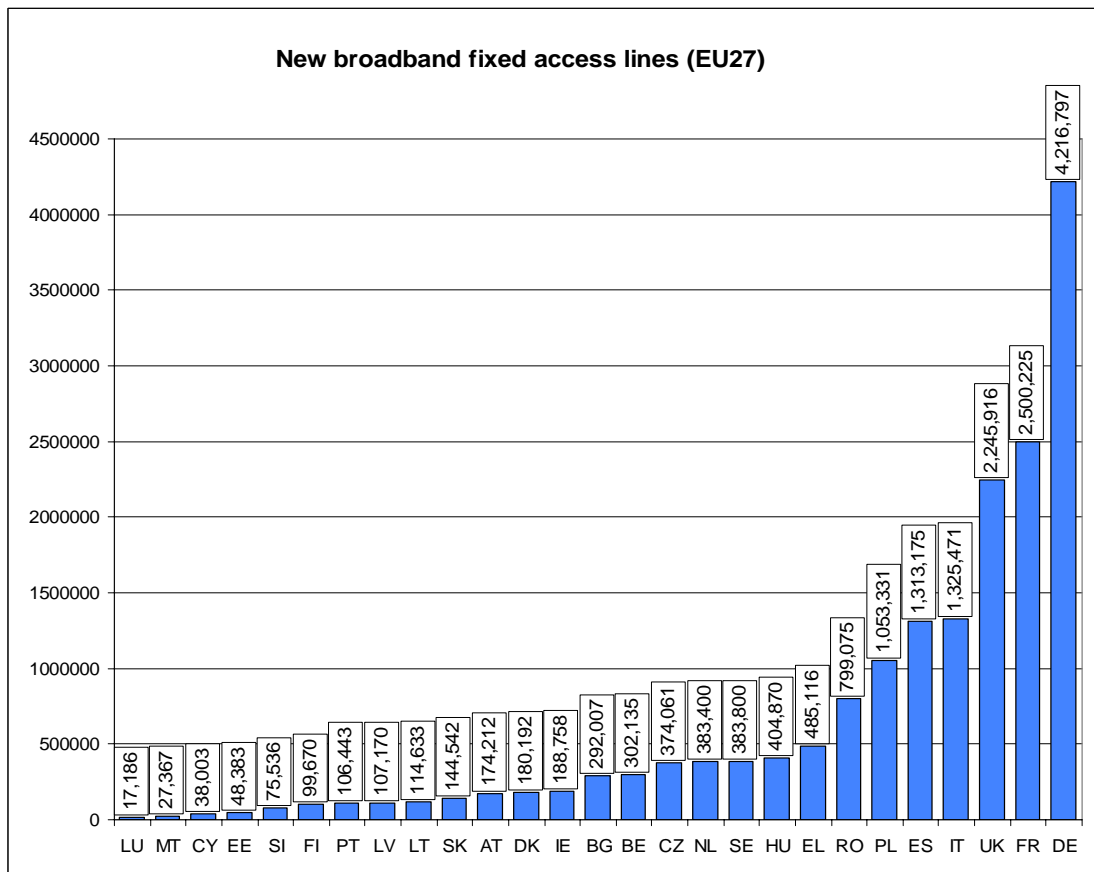
Figure 3 Growth trend since January 2003



The number of broadband lines added per day in the period between July 2007 and July 2008 was 47 545 for E27, which is 11 493 connections per day less than 59 038, the number of new lines per day added between July 2006 and July 2007.

Figure 4 shows that Germany, the largest European economy, added 4.2 million new lines in the period between July 2007 and July 2008. Germany was followed by other large Member States (France, UK, Italy, Spain and Poland).

Figure 4 Broadband lines added, by country



In order to measure the increase in the number of lines relative to the population size, Figure 5 shows the number of new lines per 100 population. Malta is the leader with 6.7 lines per 100 inhabitants, followed by Germany with 5.1 and Cyprus with 4.9 lines per 100 inhabitants.

Figure 5 New broadband fixed lines per 100 population

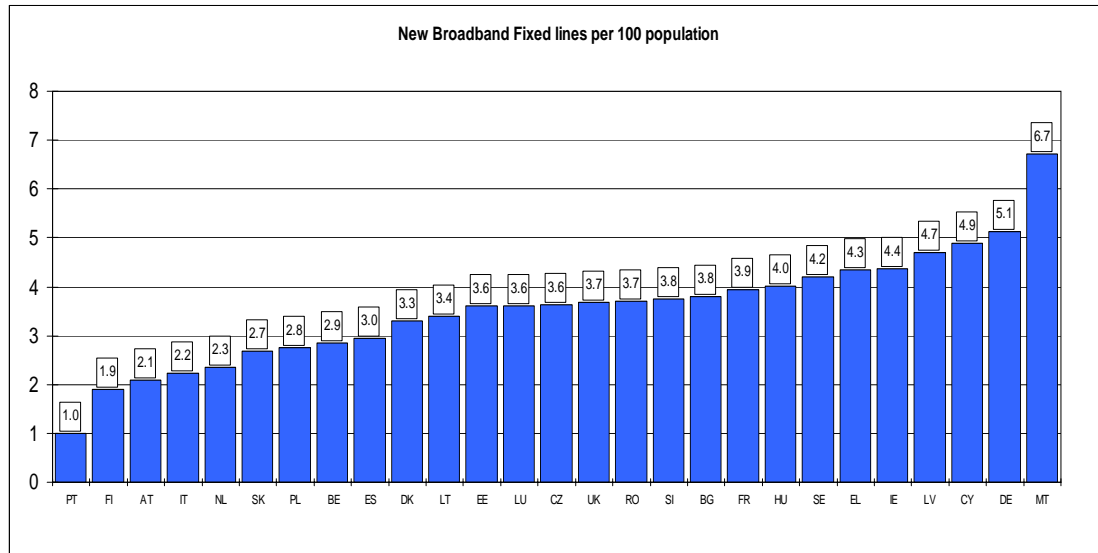


Figure 6 shows the penetration rate of broadband measured as the number of broadband lines per 100 population. Two countries, Denmark (37.4%) and the Netherlands (35.8%) remain the top performers, with Sweden and Finland exceeding the 30% mark. The UK, Luxembourg, Belgium, Germany and France exceed the 25% mark, whereas only three countries have not reached yet the 10% penetration rate. At EU level the penetration rate is 21.7%, up 3.5 percentage points from 18.2%, a year ago.

Figure 6 Penetration rate. Lines per 100 population

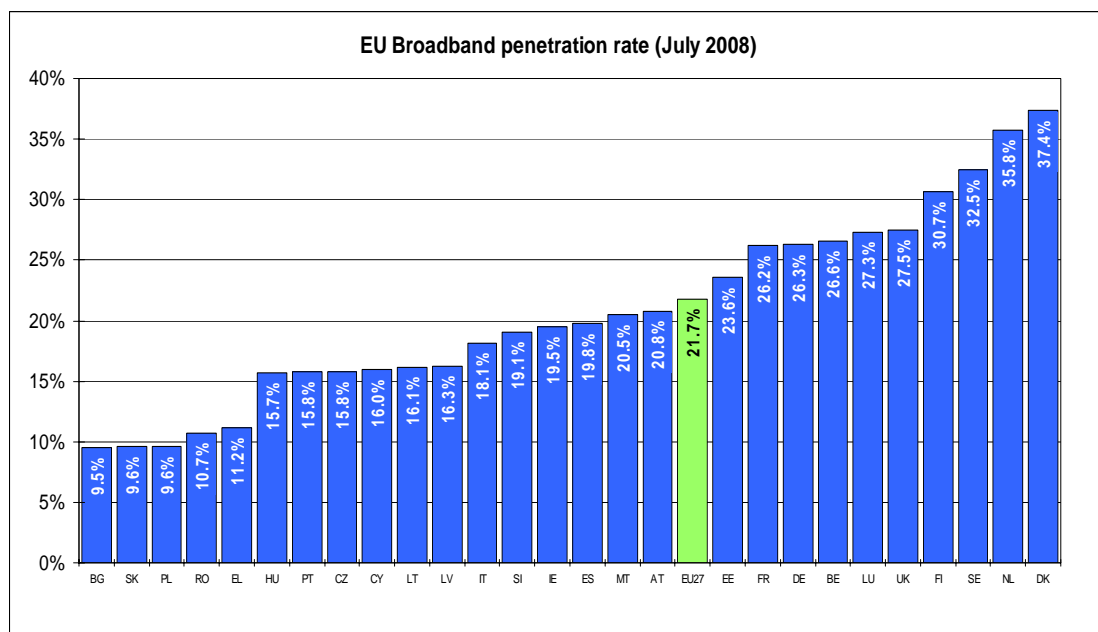


Figure 7 combines the penetration rate as of July 2008 and the growth of this indicator in percentage points during the period between July 2007 and July 2008.

Growth was the highest in Malta, followed by Germany and Cyprus. 13 other Member States exceeded the EU27 average growth, which stood at 3.5 percentage points.

Figure 7 Penetration rate and speed of progress

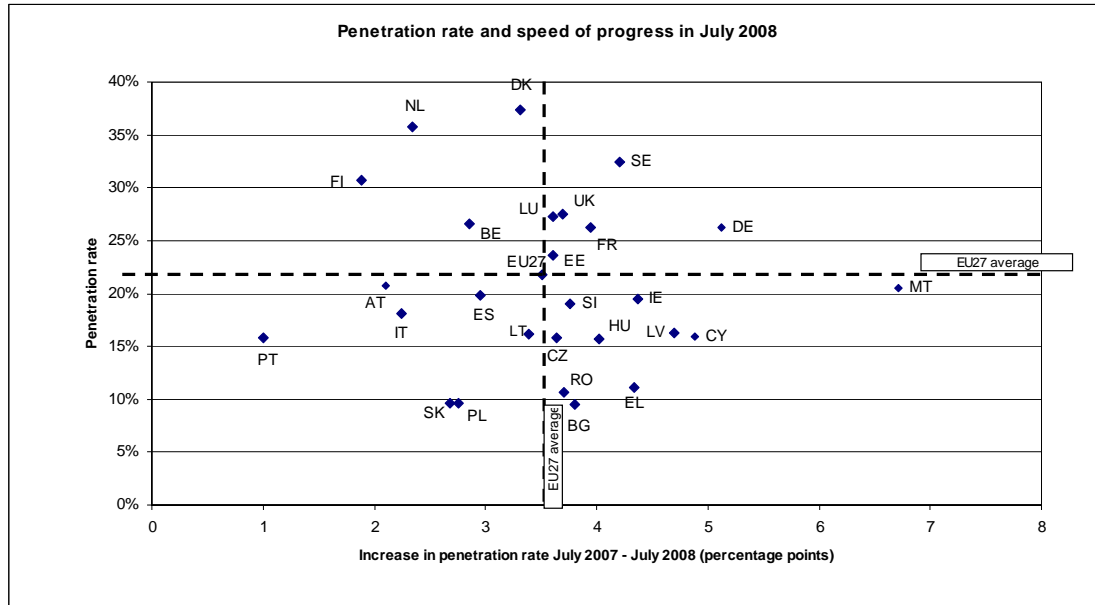


Figure 8 shows the percentage of broadband lines provided by the incumbent fixed operators and by the other operators. Simple resale of lines by new entrants is singled out.

Figure 8 Broadband lines market share

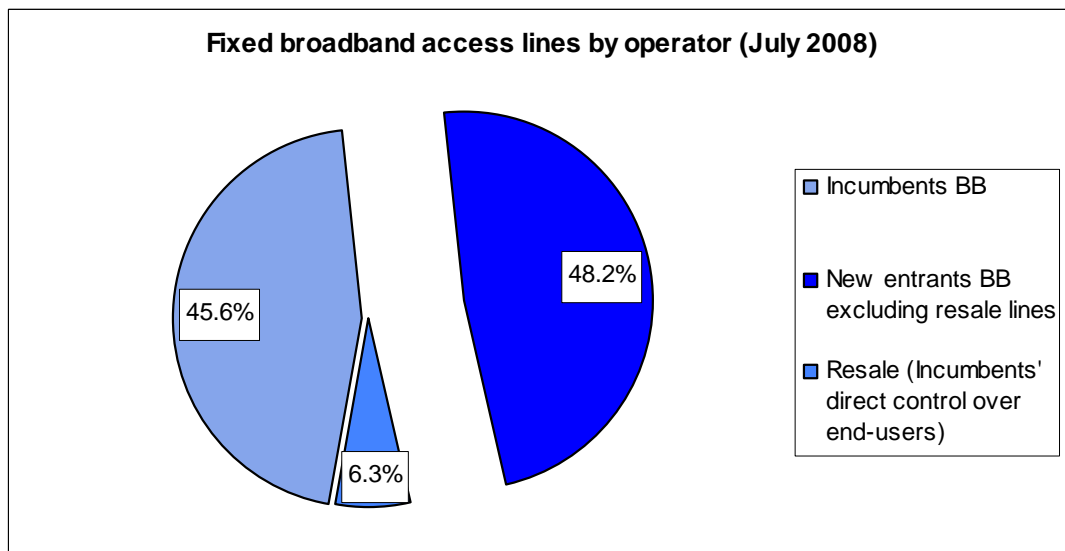


Figure 9 shows the market share of the incumbent fixed operators since July 2003. Downward trend is continuing even though the decrease has been slower for the last two years.

Figure 9 Trend in the percentage of broadband lines provided by the incumbent fixed operators

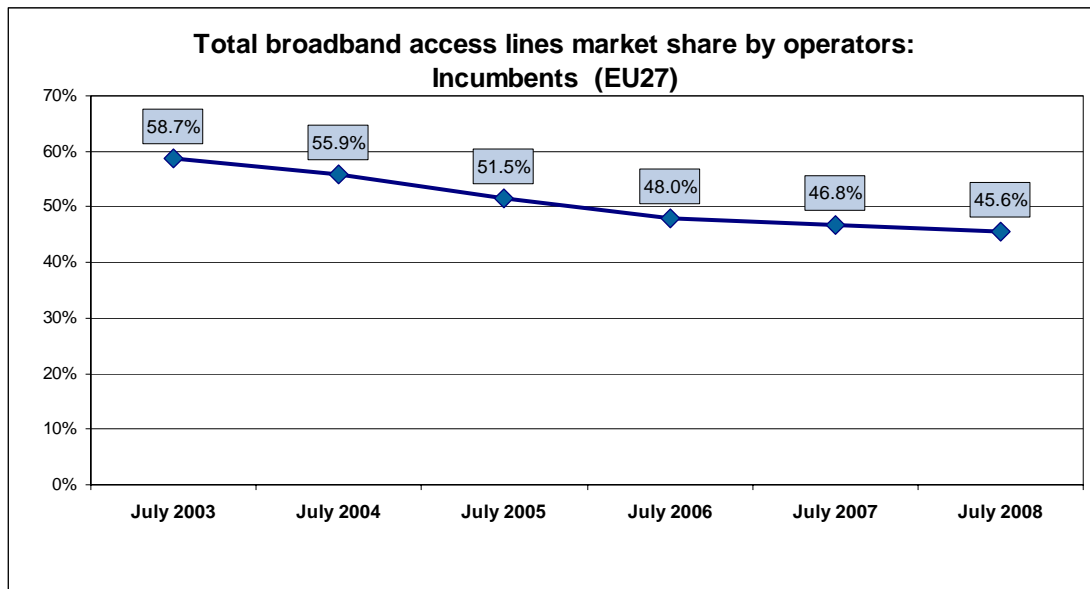
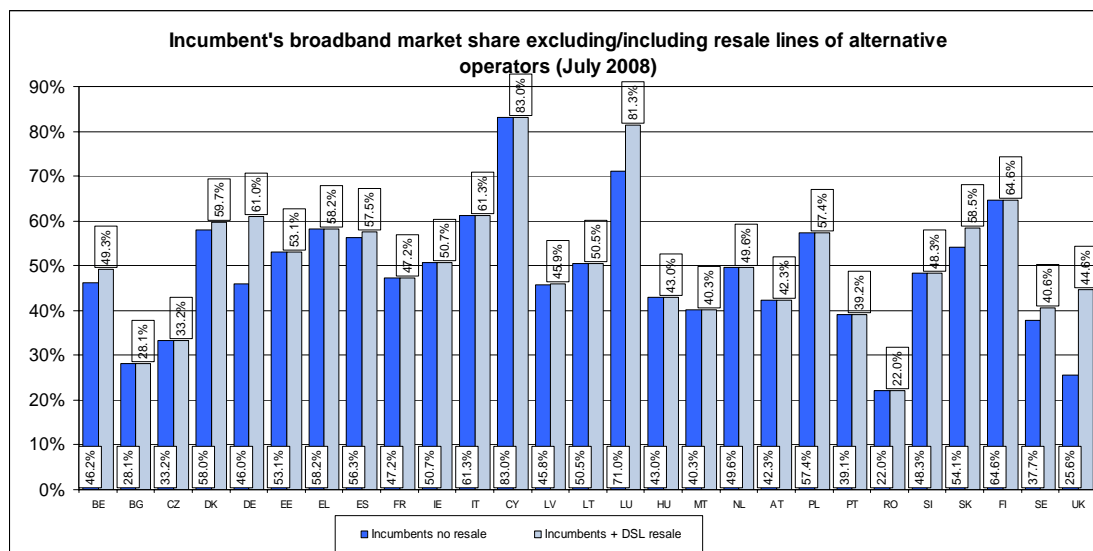


Figure 10 shows the degree of likelihood of incumbents' control over the end-users. In particular, the UK (with 19.0 percentage points difference between the market share of the incumbent excluding and including resale lines of alternative operators), Germany (with 15.0% points) and Luxembourg (with 10.3% points) are good examples of the incumbents' inflated market power.

Figure 10 Market shares of incumbents, excluding and including resale



DSL LINES

There were 85 872 936 DSL lines in the EU as of 1 July 2008, a 18.5% increase since 1 July 2007.

In the period between July 2007 and July 2008 a total of 13 376 618 new DSL lines were added in the EU27. This is 3 105 473 lines less than the number of new lines installed in the period between July 2006 and July 2007 (16 482 091), further emphasizing the DSL growth slowdown instigated two years ago.

Incumbent fixed operators provided 55.9% of these lines, down from 56.6% in July 2007 and 57.1% in July 2006.

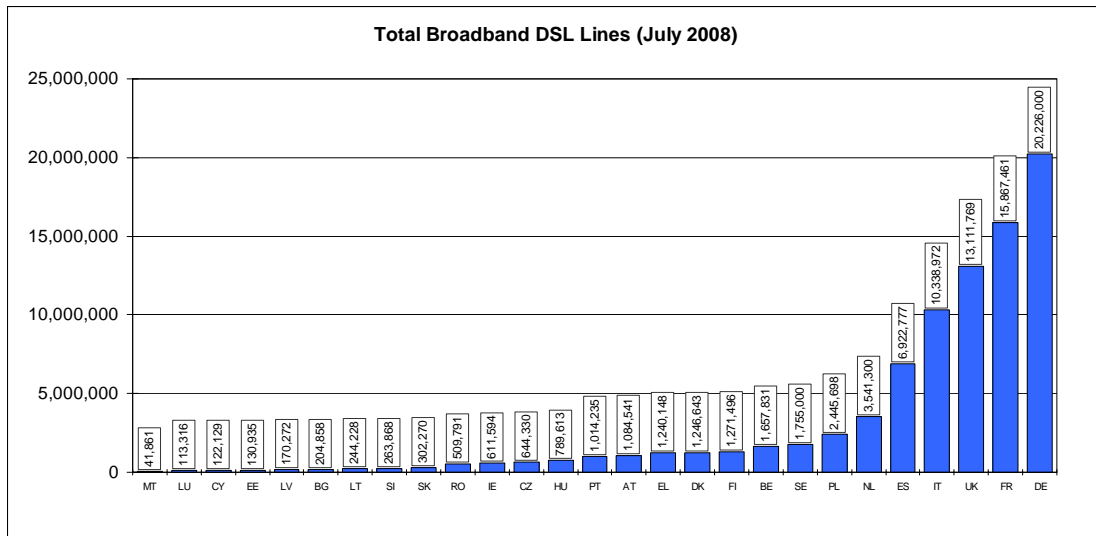
Table 2 shows how the DSL lines in the EU were distributed between the EU Member States at 1 July 2005, 1 January 2006, 1 July 2006, 1 January 2007, 1 July 2007, 1 January 2008 and 1 July 2008.

Table 2 DSL retail lines in the EU by country

	July 2005	January 2006	July 2006	January 2007	July 2007	January 2008	July 2008
BE	1 113 641	1 247 471	1,356,007	1 468 021	1,525,335	1,619,122	1,657,831
BG	N/A	N/A	N/A	95 066	121,353	163,756	204,858
CZ	181 000	309 000	399,478	493 470	562,069	613,220	644,330
DK	714 529	830 697	947,577	1 051 919	1,154,475	1,207,244	1,246,643
DE	8 138 941	10 207 500	12,128,500	14 290 000	16,476,000	18,548,000	20,226,000
EE	75 133	83 880	109,157	120 110	126,327	135,914	130,935
EL	91 869	157 993	294,026	484 321	757,012	1,012,804	1,240,148
ES	3 268 602	3 915 435	4,561,707	5 262 617	5,871,519	6,393,952	6,922,777
FR	7 802 442	9 390 561	10,697,543	12 156 164	13,417,236	14,977,000	15,867,461
IE	144 376	202 290	275,172	379 124	472,532	549,591	611,594
IT	5 175 270	6 556 648	7,363,356	8 155 511	9,052,033	9,754,680	10,338,972
CY	17 994	44 322	49,873	67 378	85,365	106,354	122,129
LV	49 465	69 464	83,807	107 473	131,024	152,327	170,272
LT	69 804	104 798	133,880	178 302	206,273	231,508	244,228
LU	47 048	63 132	71,870	89 710	102,632	108,642	113,316
HU	297 237	412 886	485,881	614 894	699,155	751,860	789,613
MT	23 799	30 139	30,523	29 864	34,600	38,300	41,861
NL	2 204 067	2 551 052	2,848,829	3 177 200	3,322,306	3,388,000	3,541,300
AT	525 230	683 083	781,408	872 948	937,101	1,017,796	1,084,541
PL	532 284	730 358	1,098,859	1 493 794	1,696,528	2,252,450	2,445,698
PT	576 258	707 916	835,998	926 420	980,540	975,138	1,014,235
RO	N/A	N/A	N/A	98 053	175,810	364,551	509,791
SI	95 932	129 281	155,288	194 339	222,690	246,906	263,868
SK	64 539	104 487	140,503	182 391	211,339	277,838	302,270
FI	763 283	929 268	1,068,082	1 161 836	1,212,595	1,272,550	1,271,496
SE	1 038 747	1 250 441	1,392,000	1 548 000	1,661,000	1,755,000	1,755,000
UK	5 784 002	7 265 521	8,704,903	10 035 298	11,263,353	12,258,505	13,111,769
EU	38 795 492	47 977 623	56,014,227	64 734 223	72,496,318	80,173,008	85,872,936

Figure 11 displays the distribution of DSL lines by country, Figure 12 presents this distribution in percentage terms at 1 July 2008 and Figure 13 shows the growth rate since January 2003.

Figure 11 EU countries by number of DSL lines



Germany accounts for 23.6% of all DSL lines, followed by France with 18.5% and the UK with 15.3%. These three countries provide 57.4% of all DSL lines, as shown in Figure 12.

Figure 12 EU distribution of DSL lines by country (% of DSL lines)

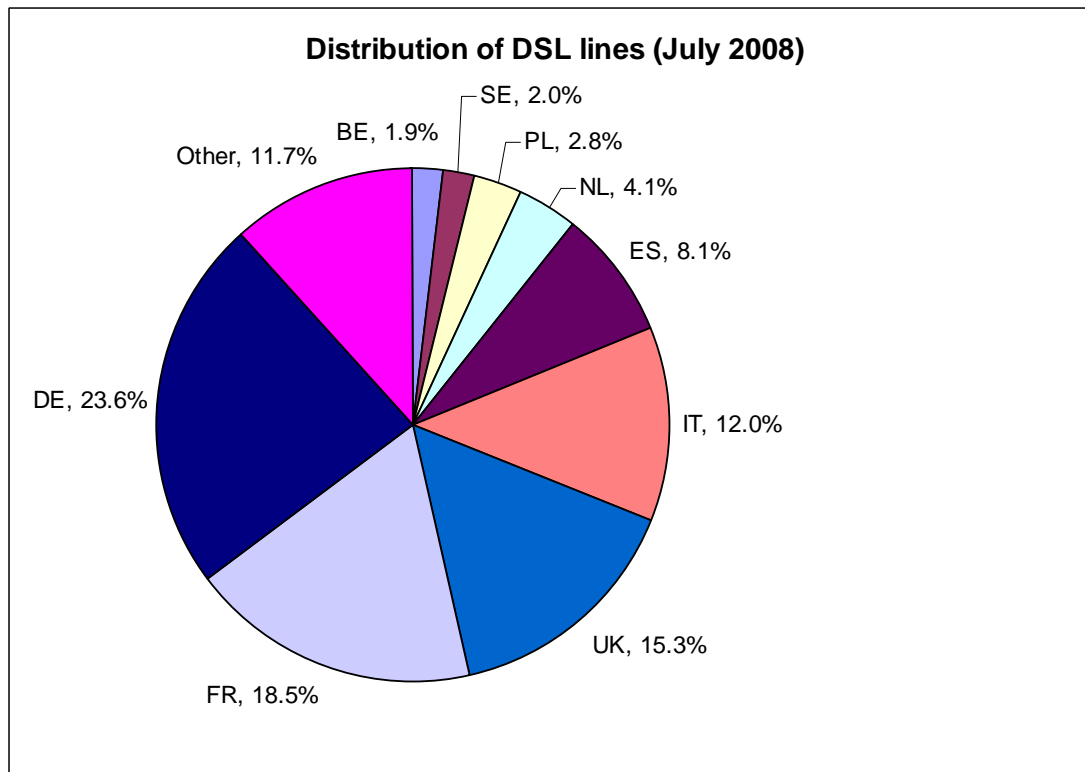
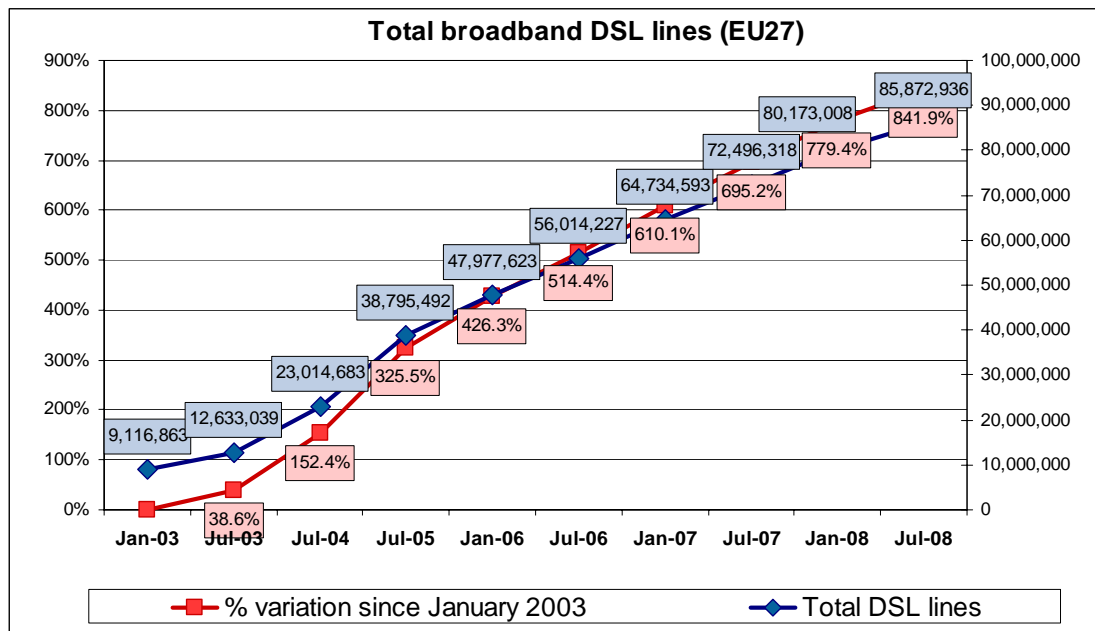


Figure 13 Growth trend since January 2003



The number of DSL lines added each day in the period between July 2007 and July 2008 was 36 548, which is 8608 connections per day less than in the period between July 2006 and July 2007, when 45 156 new DSL connections per day were recorded.

Germany added more than 3.7 million new lines over the period, followed by France, the UK, Italy, Spain, Poland and Greece.

Figure 14 DSL lines added, by country

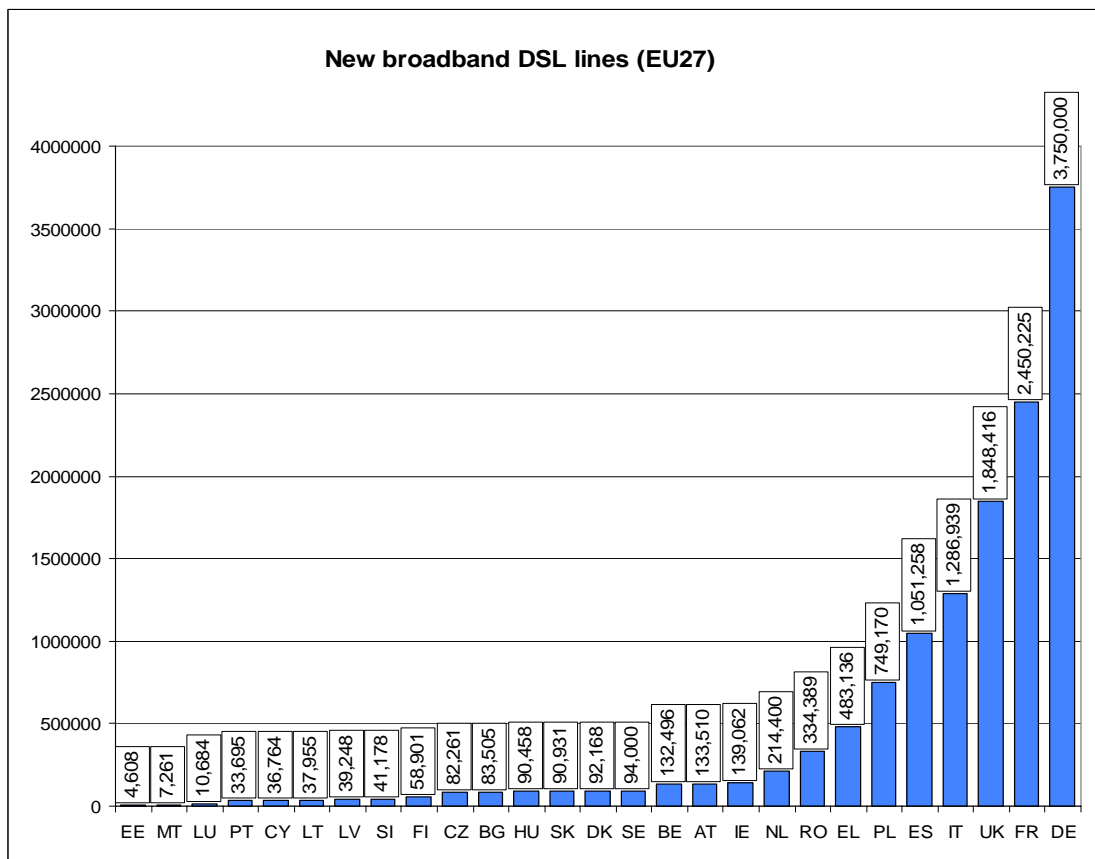


Figure 15 shows the percentage of DSL lines provided by the incumbent fixed operators and the new entrants. Figure 16 displays the trend in the percentage of DSL lines provided by incumbent fixed operators.

Figure 15 DSL lines market share by operator

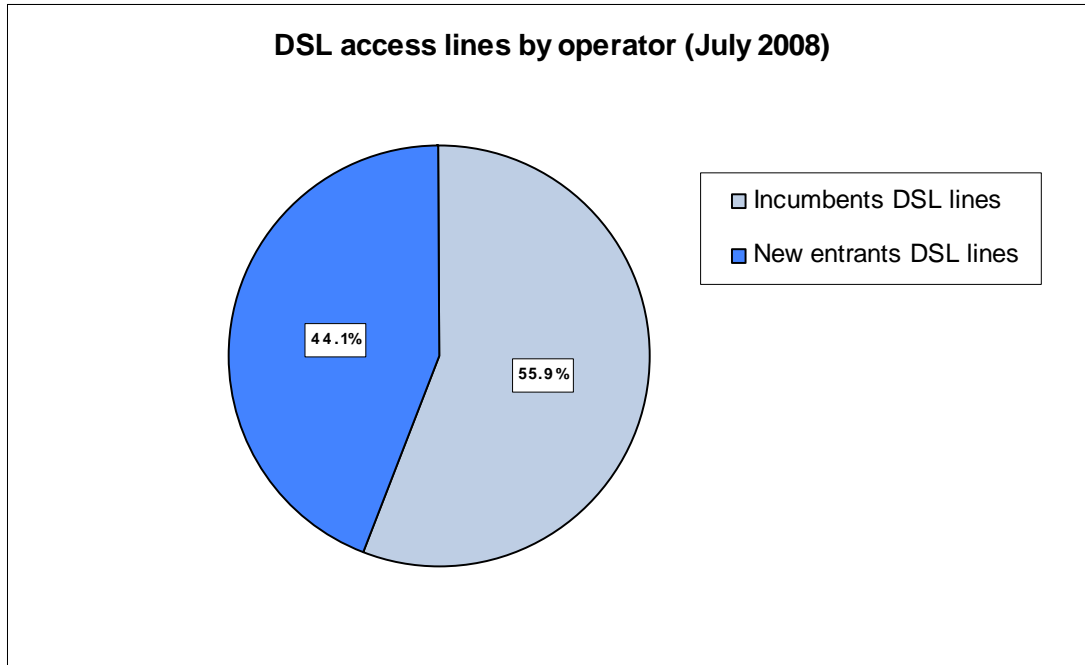


Figure 16 Trend in the % of DSL lines provided by incumbent fixed operators

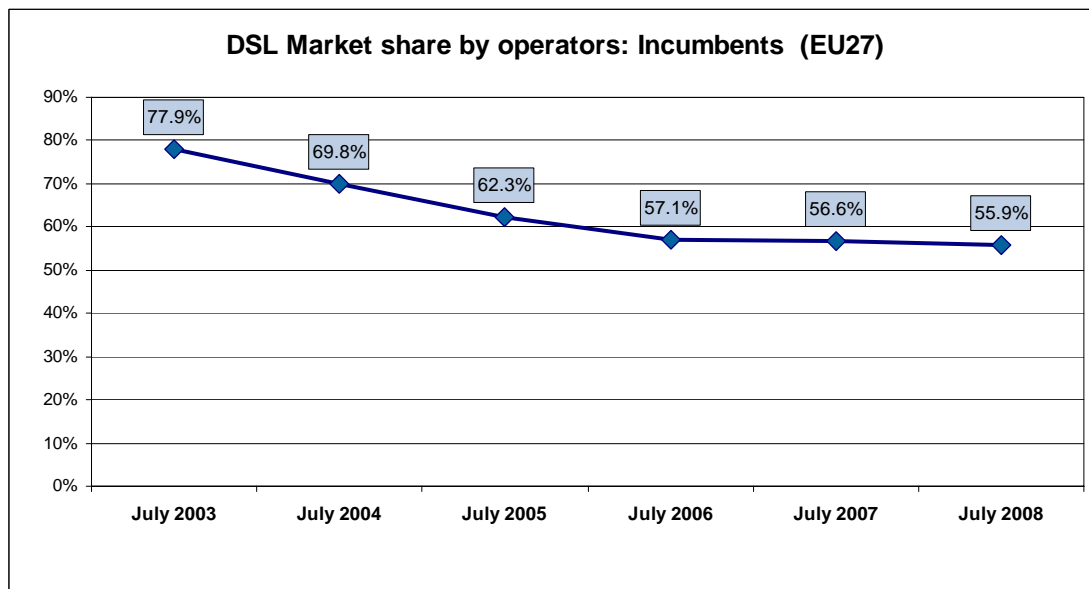


Figure 17 displays the type of access used by new entrants' to provide DSL lines to their customers. Local loop unbundling (fully unbundled lines and shared access) is the main wholesale access for new entrants with 65.3% of DSL lines, up from 55.0% in July 2007. New entrants continue to replace bitstream access (down by 2.6 percentage points since July 2007) for local loop unbundling in the provision of broadband services, as can be seen in Figure 18. Share of resale, which represents a type of access for low-investment intensive new entrants, has shrunk by 8.1 percentage points during the last year.

Figure 17 New entrants' DSL lines by type of access

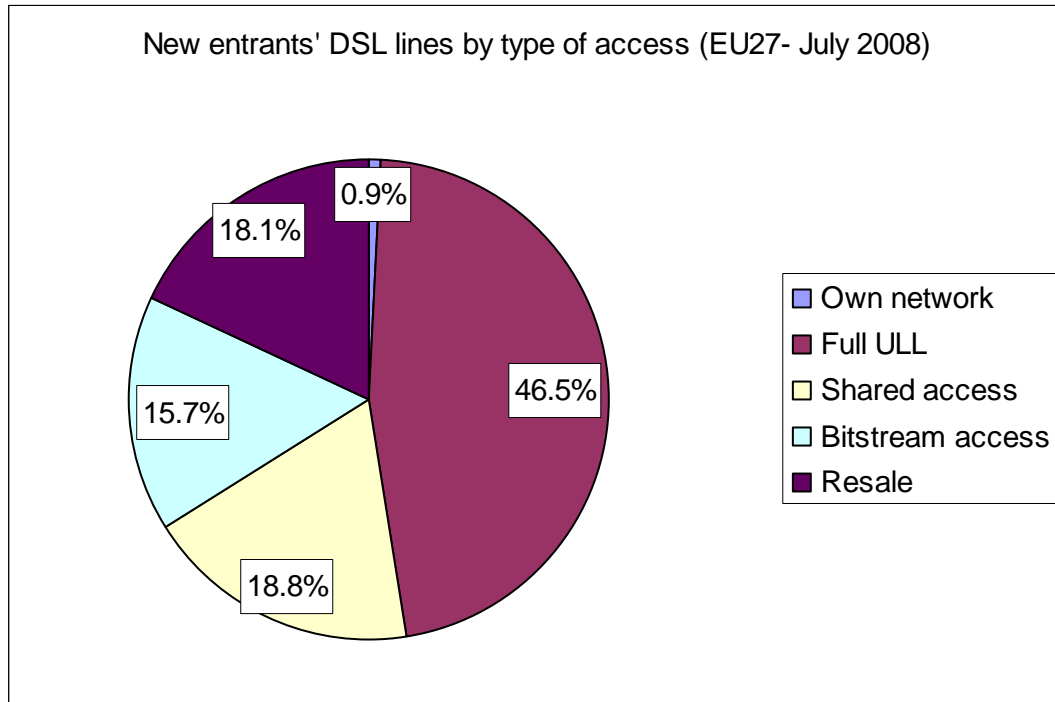
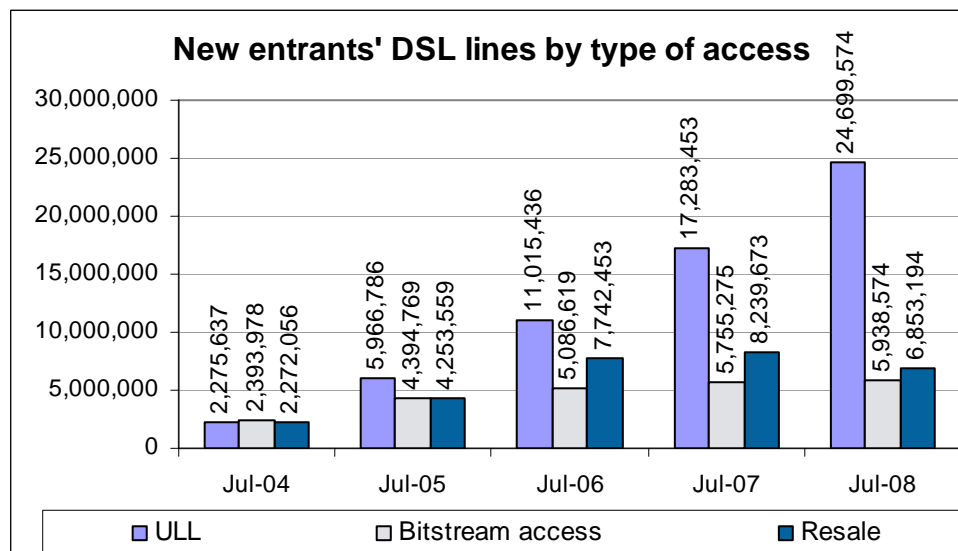


Figure 18 New entrants' DSL lines by type of access



FIXED BROADBAND LINES USING TECHNOLOGIES OTHER THAN DSL
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There were 21 728 860 broadband lines using technologies other than DSL in the EU as of 1 July 2008. 4 024 856 lines were added, which represents a 22.7% increase since 1 July 2007. Net additions in the period between July 2007 and July 2008 were lower than in the period between July 2006 and July 2007, when 5 066 652 new lines were sold.

Alternative operators provided 95.5% of these lines, 2 percentage points over the mark a year ago.

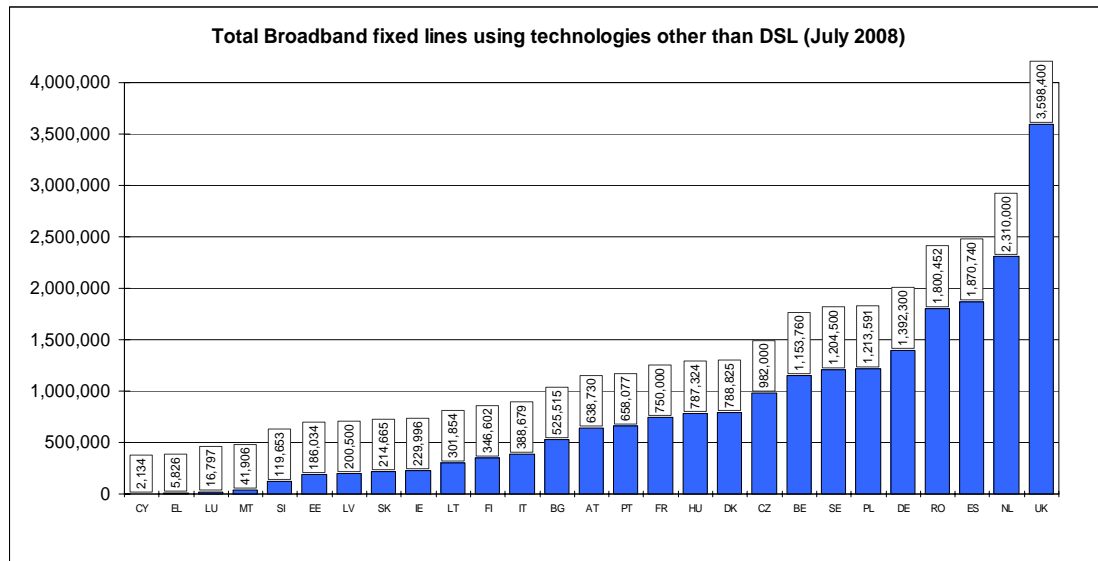
Table 3 shows how the non-DSL broadband lines in the EU were distributed between the EU Member States at 1 July 2005, 1 January 2006, 1 July 2006, 1 January 2007, 1 July 2007, 1 January 2008 and 1 July 2008.

Table 3 Non-DSL broadband lines in the EU by Country

	July 2005	January 2006	July 2006	January 2007	July 2007	January 2008	July 2008
BE	690 492	763 113	816,239	886 829	984,121	1,095,213	1,153,760
BG	N/A	N/A	N/A	250 511	313,846	416,470	525,515
CZ	255 000	341 000	461,030	594 050	690,200	884,200	982,000
DK	473 902	506 890	658,954	651 686	871,063	753,920	788,825
DE	296 428	350 600	479,900	612 200	925,503	1,031,000	1,392,300
EE	75 113	95 224	113,830	126 777	142,259	162,377	186,034
EL	1 714	2 120	3,064	3 568	3,846	4,671	5,826
ES	971 737	1 111 498	1,223,155	1 390 048	1,608,823	1,761,069	1,870,740
FR	520 000	560 000	600,000	660 000	700,000	710,000	750,000
IE	32 745	74 570	97,000	138 200	180,300	203,265	229,996
IT	346 104	340 048	327,147	341 911	350,147	367,446	388,679
CY	973	2 768	693	636	895	1,202	2,134
LV	35 916	61 865	71,931	134 077	132,578	190,749	200,500
LT	100 815	129 248	152,179	181 262	225,176	276,211	301,854
LU	6 001	7 304	8,235	9 055	10,295	12,331	16,797
HU	160 320	206 826	274,390	380 890	472,912	676,866	787,324
MT	17 752	21 150	21,420	20 629	21,800	30,650	41,906
NL	1 438 248	1 562 521	1,893,000	2 015 000	2,096,665	2,199,600	2,310,000
AT	412 600	493 100	528,688	567 232	587,753	637,723	638,730
PL	178 442	285 483	405,415	500 666	909,430	947,213	1,213,591
PT	478 295	514 385	523,746	544 390	585,329	621,506	658,077
RO	N/A	N/A	N/A	989 371	1,248,197	1,584,470	1,800,452
SI	60 737	67 405	73,674	85 321	85,295	100,586	119,653
SK	15 846	33 440	74,800	97 244	161,054	198,828	214,665
FI	211 331	242 095	240,377	264 515	305,833	346,479	346,602
SE	494 900	615 235	677,685	799 850	914,700	1,087,500	1,204,500
UK	2 279 109	2 623 105	2,910,800	3 067 000	3,200,900	3,371,500	3,598,400
EU	9 554 520	11 010 993	12,637,352	15 384 330	17,704,004	19,673,045	21,728,860

Figure 19 displays the distribution by country, Figure 20 presents this distribution in percentage terms at 1 July 2008 and Figure 21 shows the growth rate since January 2003.

Figure 19 EU countries by number of broadband lines using other technologies



The UK accounts for 16.6% of all broadband lines using other technologies, as shown in Figure 20. The Netherlands has the second largest share, with 10.6%, followed by Spain, Romania and Germany with 8.6%, 8.3% and 6.4% respectively. These five countries account for 50.5% of broadband lines in the EU in this category.

Figure 20 EU distribution of broadband lines using other technologies by country (% of lines)

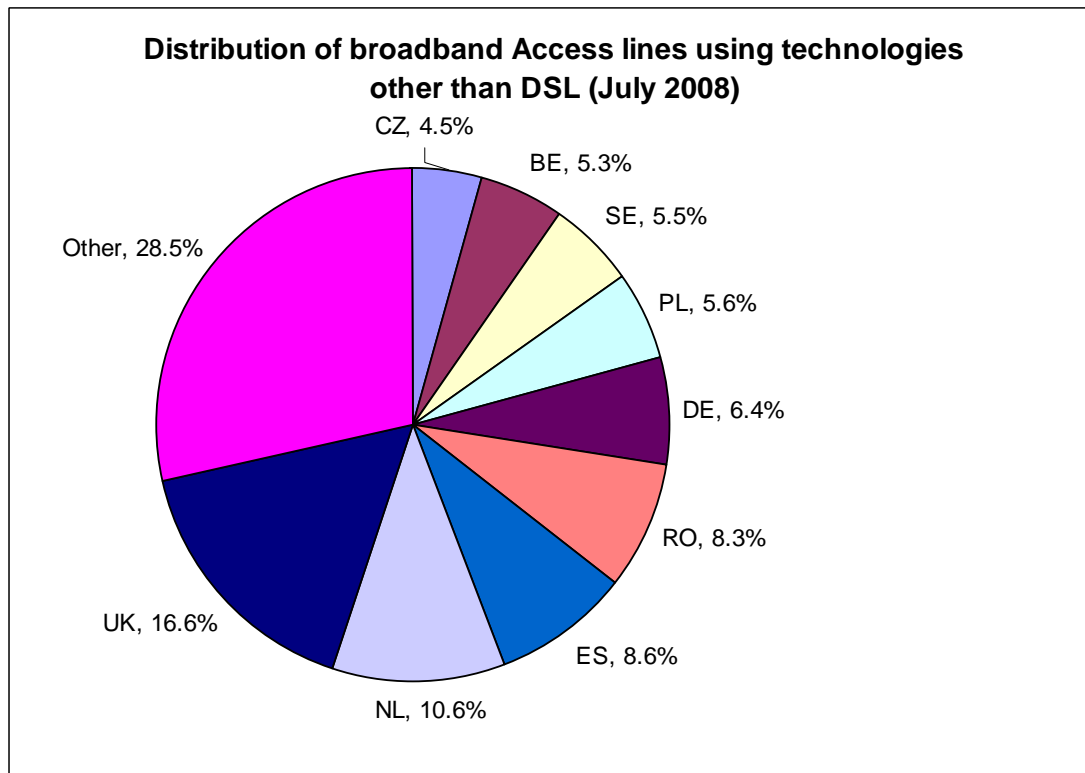
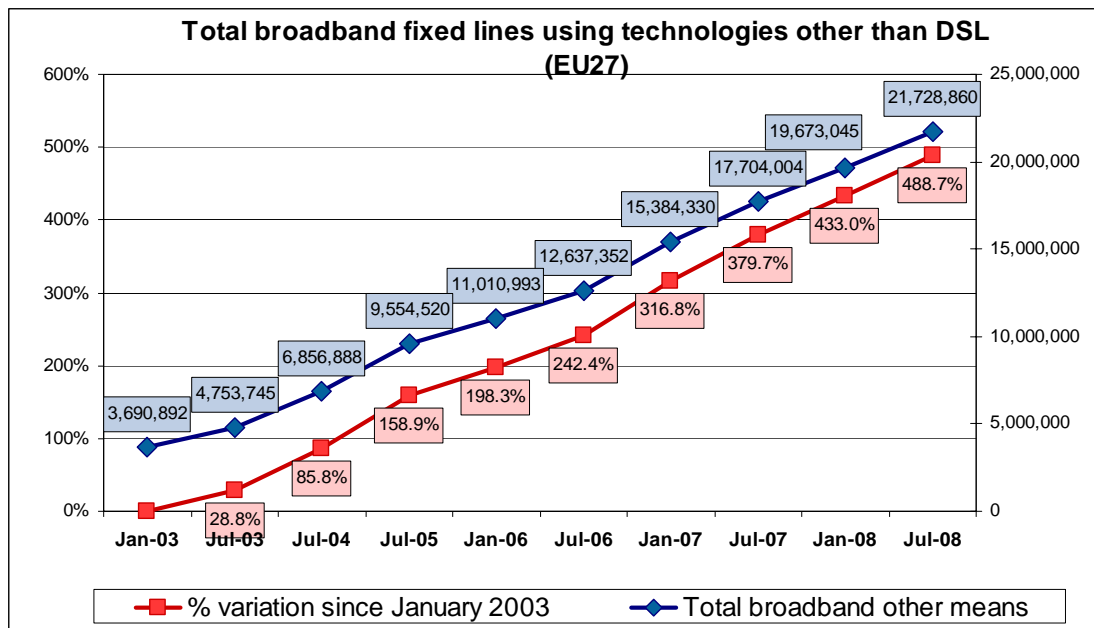


Figure 21 Growth trend since January 2003



10 997 broadband lines using other technologies were added each day in the period between July 2007 and July 2008. This fails to compare with 13 881 new lines added per day between July 2006 and July 2007.

Germany and Romania each added some 0.5 million lines using technologies other than DSL since July 2007. The UK, Hungary and Poland followed, with over 0.3 million lines each.

Figure 22 Broadband lines using other technologies added by country

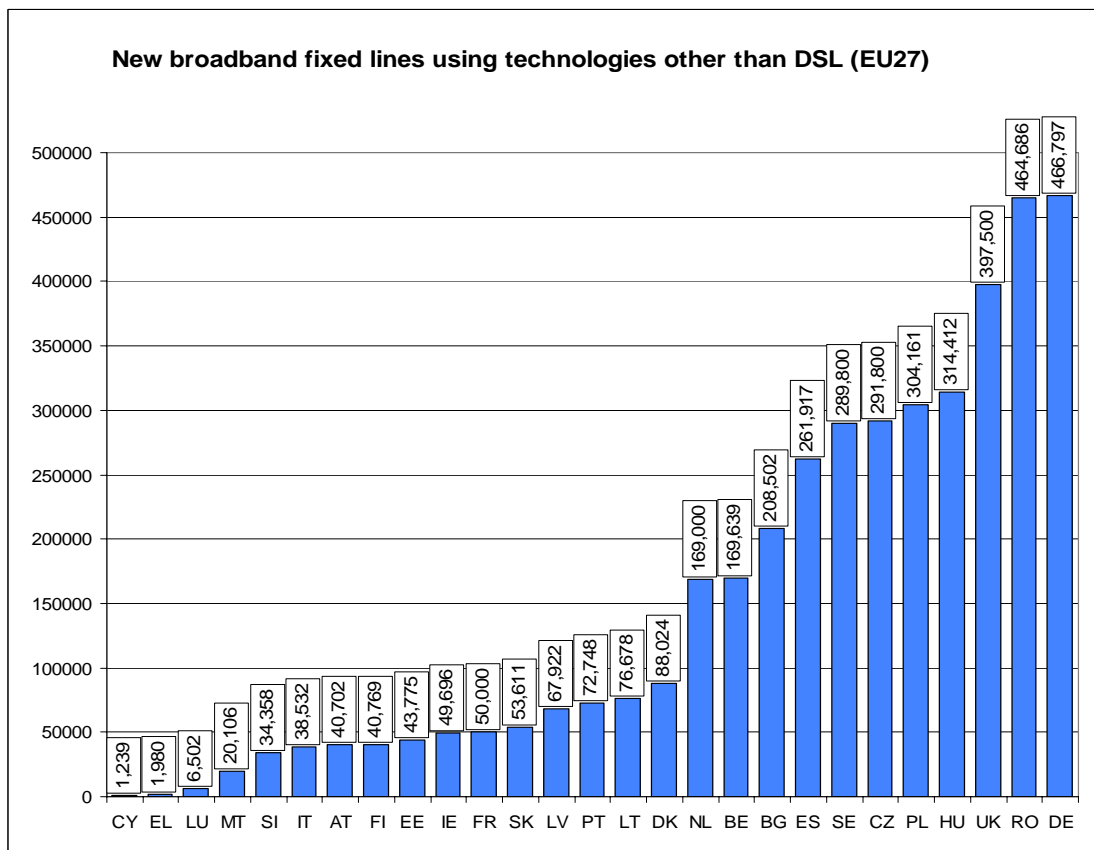


Figure 23 and 24 show the percentage of broadband lines using other technologies provided by the incumbent fixed operators and the alternative operators and the trend since January 2003.

Figure 23 Broadband lines using other technologies: market share

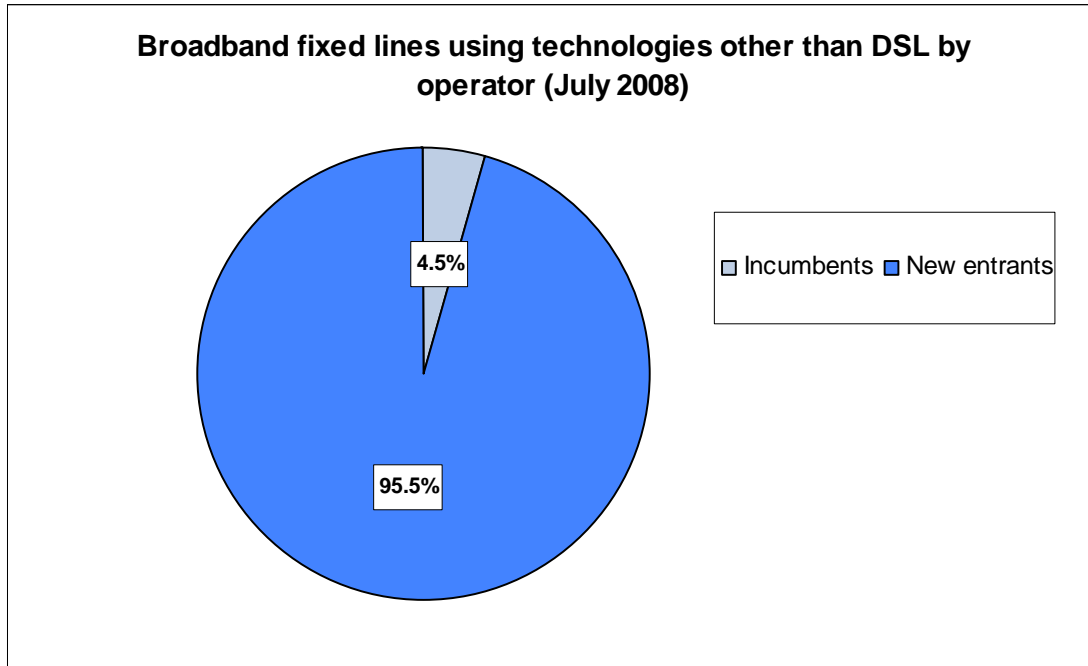
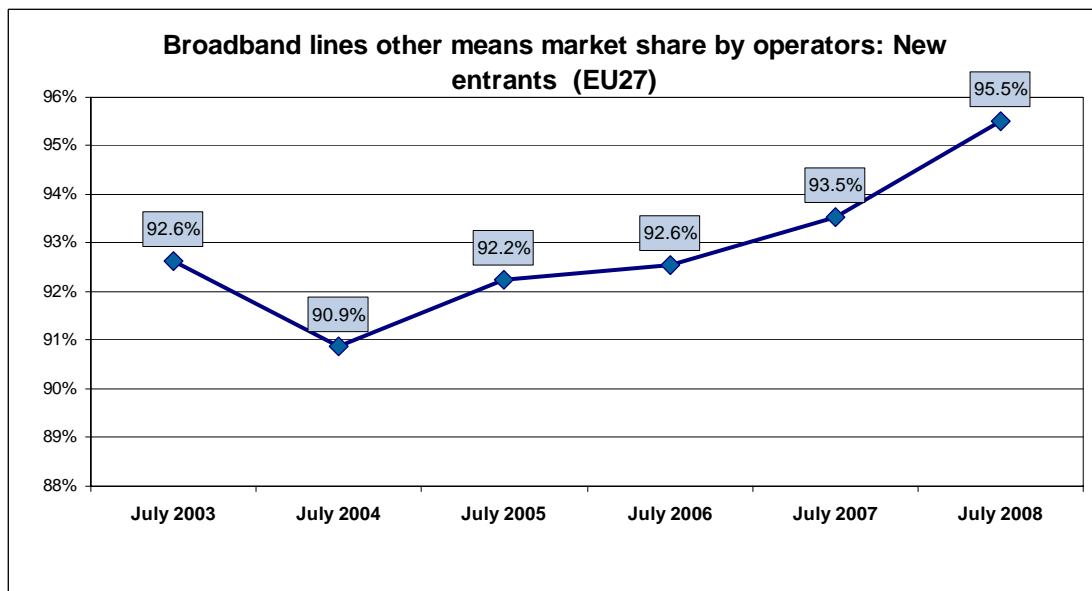


Figure 24 Trend in the % of lines using technologies other than DSL provided by new entrants



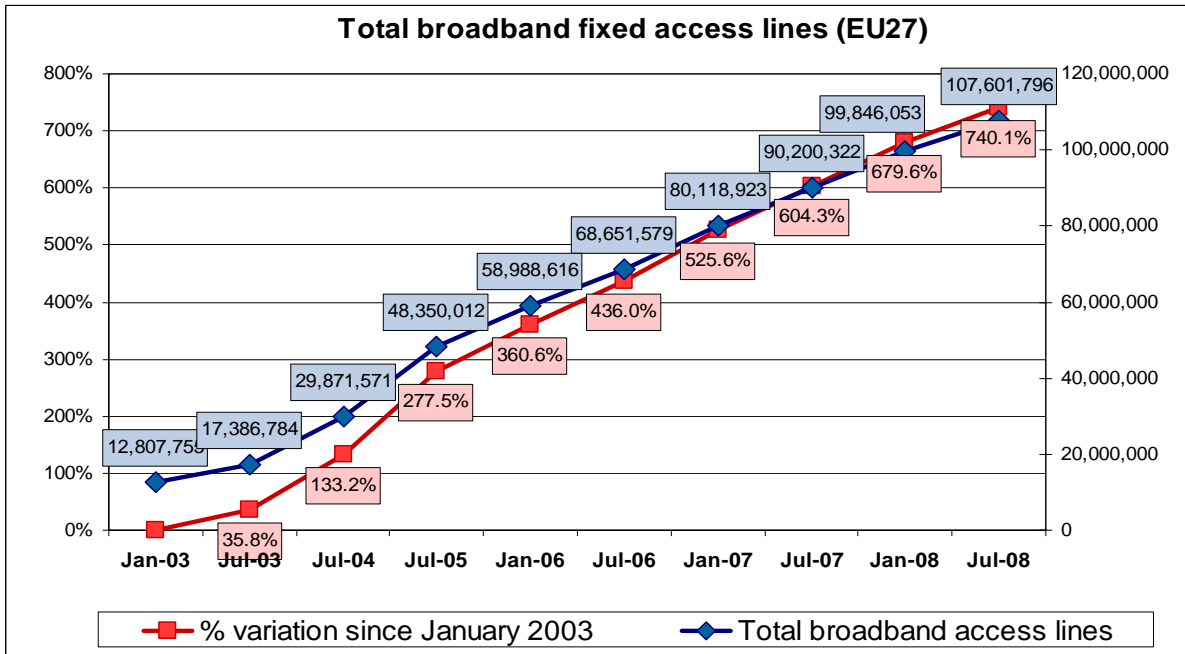
ANNEX 1: DATA ON LOCAL BROADBAND ACCESS (RETAIL)

This annex provides additional information, by Member State, on incumbents' and new entrants' retail DSL offerings and incumbents' and new entrants' retail offerings by means other than DSL (cable, WLL, fibre to the home, leased lines, satellite, powerline communications and others).

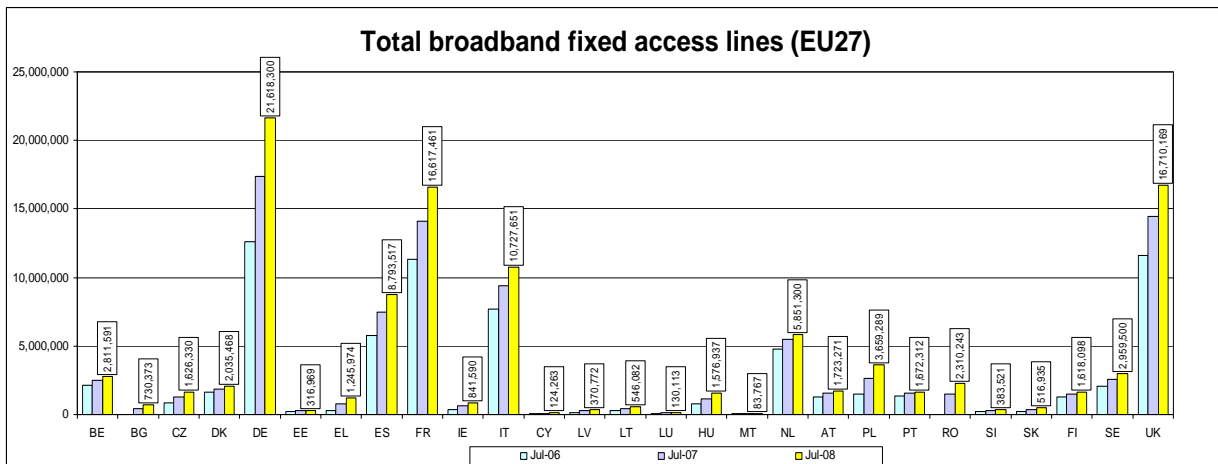
BROADBAND RETAIL LINES, 1 July 2008

JULY 08		New entrants' DSL lines on PSTN						Incumbents' access lines by other means									New entrants' access lines by other means									
		Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Tot.	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
BE	1293330		43398	16597	218243	86263	364501	230		5601						5831	14086	1132075	1157		611					1147929
DK	843406		205270	61100	101758	35109	403237	46	302385		220			33687	668	336338	23401	231264			85199	5		112618	259	452487
DE	9900000	12000	6940000	144000		3230000	10326000			52000			2300		8000	54300		1300000					28000	10000		1338000
EL	722693		302917	53440	161098		517455			1507			350			1857	1304		1325		1340					3969
ES	4922301		680868	852369	365501	101738	2000476	1440			23577	4945				29962	62311	1735146	36435		2493	856		3537	1840778	
FR	7840148		4267736	1451089	2211492	96996	8027313									0		750000								750000
IE	421739		16549	3019	170287		189855	337		4012			263		938	4612	119964	91462	4988		5811	3159		292	225384	
IT	6563999	784	2163337	380000	1228000	2852	3774973			284	387	9553		236		10460	2780		6178		293201	74005	4	2051	378219	
LU	91029	21	8810	78		13378	22287		761	384	240				41	1385	140	15192	10		70			90	15412	
NL	2901300		417000	223000	confidential		640000									0		2216000			94000					2310000
AT	729114		264864	133	90430		355427									0	36000	590000			4500		6000	2230		638730
PT	653018		305534	1	54323	1359	361217			787	303	26				1116	18194	635229	2483		1055				656961	
FI	834204		351981	12552	72759		437292	13567	111066					86235		210868	5988	101867					1185	26694		135734
SE	1050000		151000	467000		87000	705000			7000	59000					66000	5000	600000	7500		526000					1138500
UK	4278906	89874	1347518	3413118	806610	3175743	8832863									0	29000	3563400				6000				3598400
CY	102884		18915	330			19245			273			18		56	291		1837				6		20		1843
CZ	539744	500	34587	11689	57810		104586									0	570000	350000			62000					982000
EE	124276	1590	5029	0	0	40	6659	5601			37928			509	160	44038	25681	74532			26465			15318	1022	141996
HU	568936		11597	4800	204280		220677	17840	89728	1200						108768	107091	567941	2524		1000					678556
LV	169397		471	11	46	347	875	123			82			304		509	13273	35937	9399		8204	463		132715	199991	
LT	241906				2322		2322	20229		73	13381				3761	33683	34775	64626	1448		119961	147		47214	279	268171
MT	33732				8129		8129									0	confidential	39868								41906
PL	2040380	238834	179	81	166224		405318		52483					7584		60067	16082	1051683	2038		1577			82144	418	1153524
SK	279901					22369	22369									0	81279	55662	17769		59927	28		500		214665
SI	178054		43792	22760	19262		85814	8			7017				70	7025	203	89830	261		22134	7		193	512	112628
BG	204858						0			522					12	534	3139	101531	642		8937			410732		524981
RO	508026	710	1055				1765			411	256					667	30977	508490	41		88671	461		1171145	782	1799785
EU27	48037281	344313	17582407	7117167	5938574	6853194	37835655	59421	556423	74054	142391	17455		128567	13694	978311	1202706	15903572	94198		1413156	113137	17189	2006591	4174	20750549

Total broadband access retail fixed lines in EU

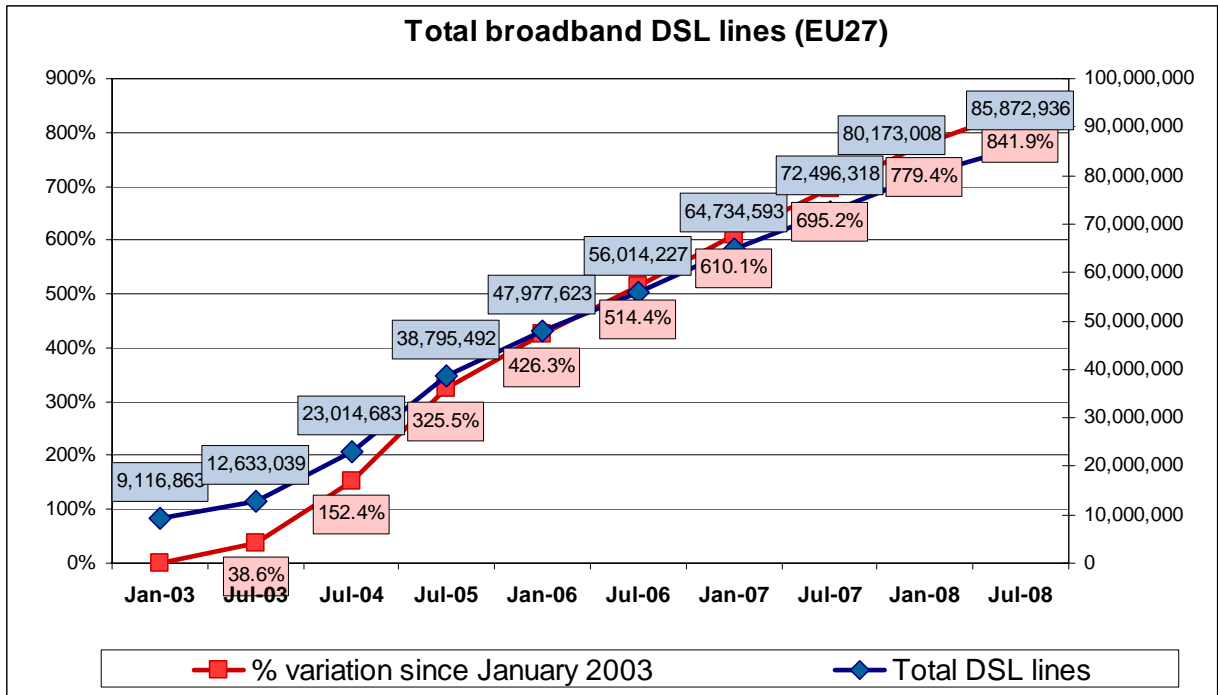


Variation July 2007-July 2008	
%	19.3%
New lines	17,401,474
Lines/day	47,545
Variation July 2006-July 2007	
%	31.4%
New lines	21,548,743
Lines/day	59,038
Variation July 2005-July 2006	
%	42.0%
New lines	20,301,567
Lines/day	55,621

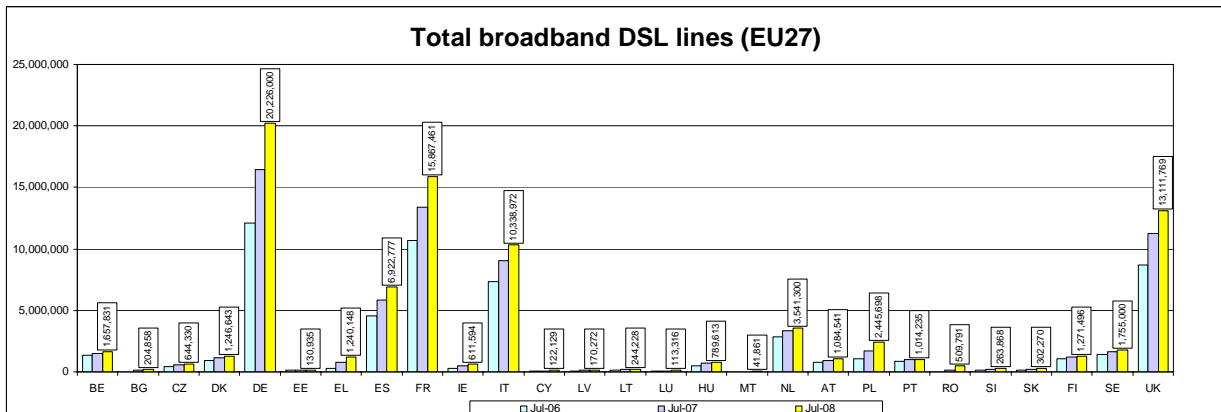


	Jan-06	Jul-06	Jan-07	Jul-07	Jan-08	Jul-08		Difference	Variation	Lines/day	Difference	Variation	Lines/day
								July 06 - July 07			July 07 - July 08		
BE	2,010,584	2,172,246	2,399,193	2,509,456	2,714,335	2,811,591	BE	337,210	15.5%	924	302,135	12.0%	826
BG	0	0	345,577	438,366	580,226	730,373	BG	n.a.	n.a.	n.a.	292,007	66.6%	798
CZ	650,000	860,508	1,087,520	1,252,269	1,497,420	1,626,330	CZ	391,761	45.5%	1,073	374,061	29.9%	1,022
DK	1,337,587	1,606,531	1,730,674	1,855,276	1,961,164	2,035,468	DK	248,745	15.5%	681	180,192	9.7%	492
DE	10,558,100	12,608,400	14,902,200	17,401,503	19,579,000	21,618,300	DE	4,793,103	38.0%	13,132	4,216,797	24.2%	11,521
EE	179,104	222,987	246,887	268,586	298,291	316,969	EE	45,599	20.4%	125	48,383	18.0%	132
EL	160,113	297,090	487,889	760,858	1,017,475	1,245,974	EL	463,768	156.1%	1,271	485,116	63.8%	1,325
ES	5,026,933	5,784,862	6,652,665	7,480,342	8,155,021	8,793,517	ES	1,695,480	29.3%	4,645	1,313,175	17.6%	3,588
FR	9,950,561	11,297,543	12,816,164	14,117,236	15,687,000	16,617,461	FR	2,819,693	25.0%	7,725	2,500,225	17.7%	6,831
IE	276,860	372,172	517,324	652,832	752,856	841,590	IE	280,660	75.4%	769	188,758	28.9%	516
IT	6,896,696	7,690,503	8,497,422	9,402,180	10,122,126	10,727,651	IT	1,711,677	22.3%	4,690	1,325,471	14.1%	3,622
CY	47,090	50,566	68,014	86,260	107,556	124,263	CY	35,694	70.6%	98	38,003	44.1%	104
LV	131,329	155,738	241,550	263,602	343,076	370,772	LV	107,864	69.3%	296	107,170	40.7%	293
LT	234,046	286,059	359,564	431,449	507,719	546,082	LT	145,390	50.8%	398	114,633	26.6%	313
LU	70,436	80,105	98,765	112,927	120,973	130,113	LU	32,822	41.0%	90	17,186	15.2%	47
HU	619,712	760,271	995,784	1,172,067	1,428,726	1,576,937	HU	411,796	54.2%	1,128	404,870	34.5%	1,106
MT	51,289	51,943	50,493	56,400	68,950	83,767	MT	4,457	8.6%	12	27,367	48.5%	75
NL	4,113,573	4,741,829	5,192,200	5,467,900	5,587,600	5,851,300	NL	726,071	15.3%	1,989	383,400	7.0%	1,048
AT	1,176,183	1,310,096	1,440,550	1,549,059	1,655,519	1,723,271	AT	238,963	18.2%	655	174,212	11.2%	476
PL	1,015,841	1,504,274	1,994,460	2,605,958	3,199,663	3,659,289	PL	1,101,684	73.2%	3,018	1,053,331	40.4%	2,878
PT	1,222,301	1,359,744	1,470,810	1,565,869	1,596,644	1,672,312	PT	206,125	15.2%	565	106,443	6.8%	291
RO	0	0	1,087,424	1,511,168	1,949,021	2,310,243	RO	n.a.	n.a.	n.a.	799,075	52.9%	2,183
SI	196,686	228,962	279,660	307,985	347,492	383,521	SI	79,023	34.5%	217	75,536	24.5%	206
SK	137,927	215,303	279,635	372,393	476,666	516,935	SK	157,090	73.0%	430	144,542	38.8%	395
FI	1,171,363	1,308,459	1,426,351	1,518,428	1,619,029	1,618,098	FI	209,969	16.0%	575	99,670	6.6%	272
SE	1,865,676	2,069,685	2,347,850	2,575,700	2,842,500	2,959,500	SE	506,015	24.4%	1,386	383,800	14.9%	1,049
UK	9,888,626	11,615,703	13,102,298	14,464,253	15,630,005	16,710,169	UK	2,848,550	24.5%	7,804	2,245,916	15.5%	6,136

Total DSL retail lines in EU

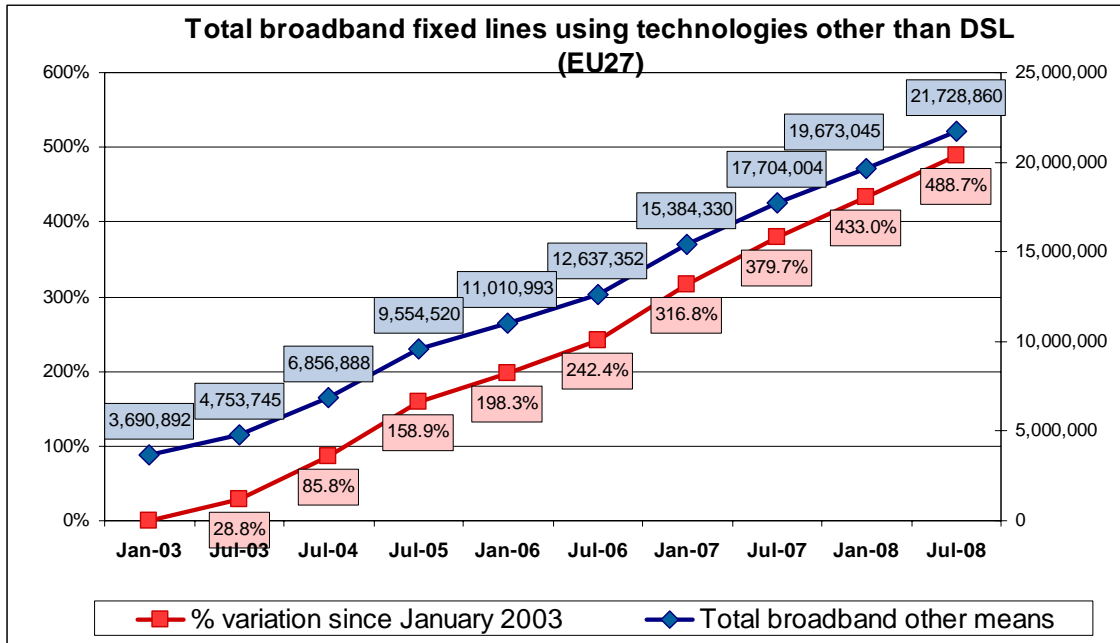


Variation July 2007-July 2008	
%	18.5%
New lines	13,376,618
Lines/day	36,548
Variation July 2006-July 2007	
%	29.4%
New lines	16,482,091
Lines/day	45,156
Variation July 2005-July 2006	
%	44.4%
New lines	17,218,735
Lines/day	47,175

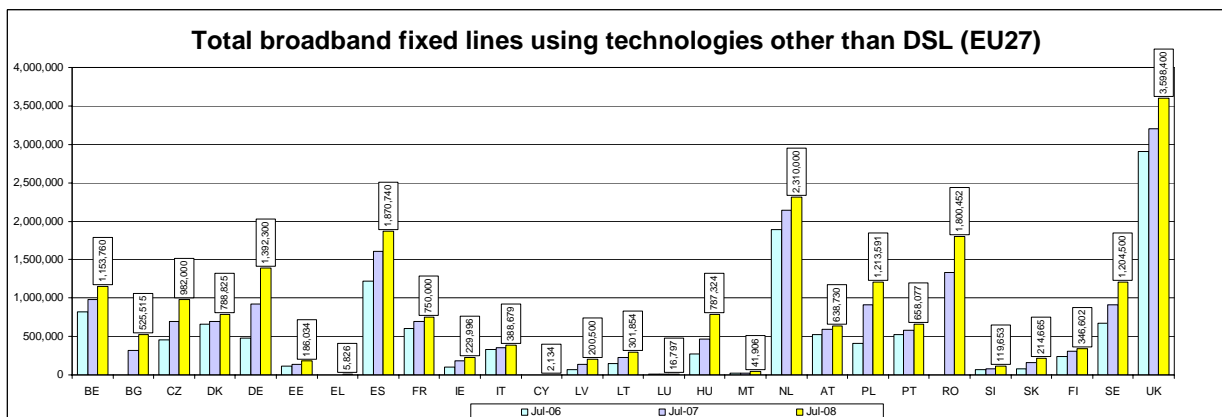


							Difference						
							Difference	Variation	Lines/day	Difference	Variation	Lines/day	
							July 06 - July 07			July 07 - July 08			
	Jan-06	Jul-06	Jan-07	Jul-07	Jan-08	Jul-08							
BE	1,247,471	1,356,007	1,468,021	1,525,335	1,619,122	1,657,831	BE	169,328	12.5%	464	132,496	8.7%	362
BG	0	0	95,066	121,353	163,756	204,858	BG	n.a.	n.a.	n.a.	83,505	68.8%	228
CZ	309,000	399,478	493,470	562,069	613,220	644,330	CZ	162,591	40.7%	445	82,261	14.6%	225
DK	830,697	947,577	1,051,919	1,154,475	1,207,244	1,246,643	DK	206,898	21.8%	567	92,168	8.0%	252
DE	10,207,500	12,128,500	14,290,000	16,476,000	18,548,000	20,226,000	DE	4,347,500	35.8%	11,911	3,750,000	22.8%	10,246
EE	83,880	109,157	120,110	126,327	135,914	130,935	EE	17,170	15.7%	47	4,608	3.6%	13
EL	157,993	294,026	484,321	757,012	1,012,804	1,240,148	EL	462,986	157.5%	1,268	483,136	63.8%	1,320
ES	3,915,435	4,561,707	5,262,617	5,871,519	6,393,952	6,922,777	ES	1,309,812	28.7%	3,589	1,051,258	17.9%	2,872
FR	9,390,561	10,697,543	12,156,164	13,417,236	14,977,000	15,867,461	FR	2,719,693	25.4%	7,451	2,450,225	18.3%	6,695
IE	202,290	275,172	379,124	472,532	549,591	611,594	IE	197,360	71.7%	541	139,062	29.4%	380
IT	6,556,648	7,363,356	8,155,511	9,052,033	9,754,680	10,338,972	IT	1,688,677	22.9%	4,627	1,286,939	14.2%	3,516
CY	44,322	49,873	67,378	85,365	106,354	122,129	CY	35,492	71.2%	97	36,764	43.1%	100
LV	69,464	83,807	107,473	131,024	152,327	170,272	LV	47,217	56.3%	129	39,248	30.0%	107
LT	104,798	133,880	178,302	206,273	231,508	244,228	LT	72,393	54.1%	198	37,955	18.4%	104
LU	63,132	71,870	89,710	102,632	108,642	113,316	LU	30,762	42.8%	84	10,684	10.4%	29
HU	412,886	485,881	614,894	699,155	751,860	789,613	HU	213,274	43.9%	584	90,458	12.9%	247
MT	30,139	30,523	29,864	34,600	38,300	41,861	MT	4,077	13.4%	11	7,261	21.0%	20
NL	2,551,052	2,848,829	3,177,200	3,326,900	3,388,000	3,541,300	NL	478,071	16.8%	1,310	214,400	6.4%	586
AT	683,083	781,408	873,318	951,031	1,017,796	1,084,541	AT	169,623	21.7%	465	133,510	14.0%	365
PL	730,358	1,098,859	1,493,794	1,696,528	2,252,450	2,445,698	PL	597,669	54.4%	1,637	749,170	44.2%	2,047
PT	707,916	835,998	926,420	980,540	975,138	1,014,235	PT	144,542	17.3%	396	33,695	3.4%	92
RO	0	0	98,053	175,402	364,551	509,791	RO	n.a.	n.a.	n.a.	334,389	190.6%	914
SI	129,281	155,288	194,339	222,690	246,906	263,868	SI	67,402	43.4%	185	41,178	18.5%	113
SK	104,487	140,503	182,391	211,339	277,838	302,270	SK	70,836	50.4%	194	90,931	43.0%	248
FI	929,268	1,068,082	1,161,836	1,212,595	1,272,550	1,271,496	FI	144,513	13.5%	396	58,901	4.9%	161
SE	1,250,441	1,392,000	1,548,000	1,661,000	1,755,000	1,755,000	SE	269,000	19.3%	737	94,000	5.7%	257
UK	7,265,521	8,704,903	10,035,298	11,263,353	12,258,505	13,111,769	UK	2,558,450	29.4%	7,009	1,848,416	16.4%	5,050

Total broadband fixed retail lines using technologies other than DSL in EU

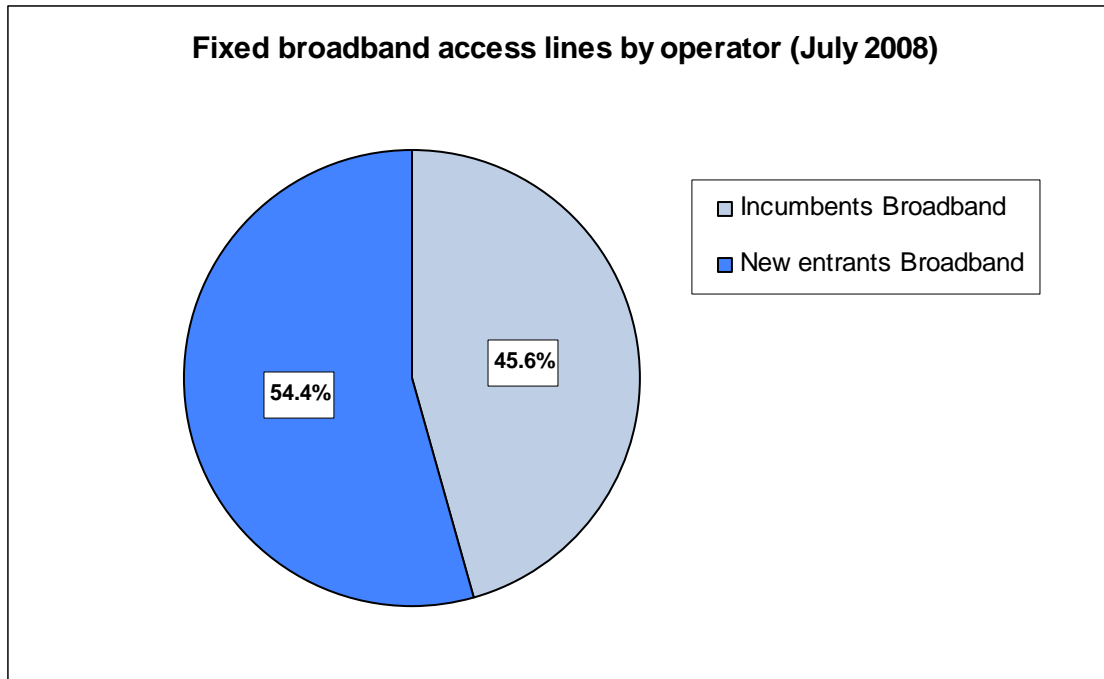


Variation July 2007-July 2008	
%	22.7%
New lines	4,024,856
Lines/day	10,997
Variation July 2006-July 2007	
%	40.1%
New lines	5,066,652
Lines/day	13,881
Variation July 2005-July 2006	
%	32.3%
New lines	3,082,832
Lines/day	8,446

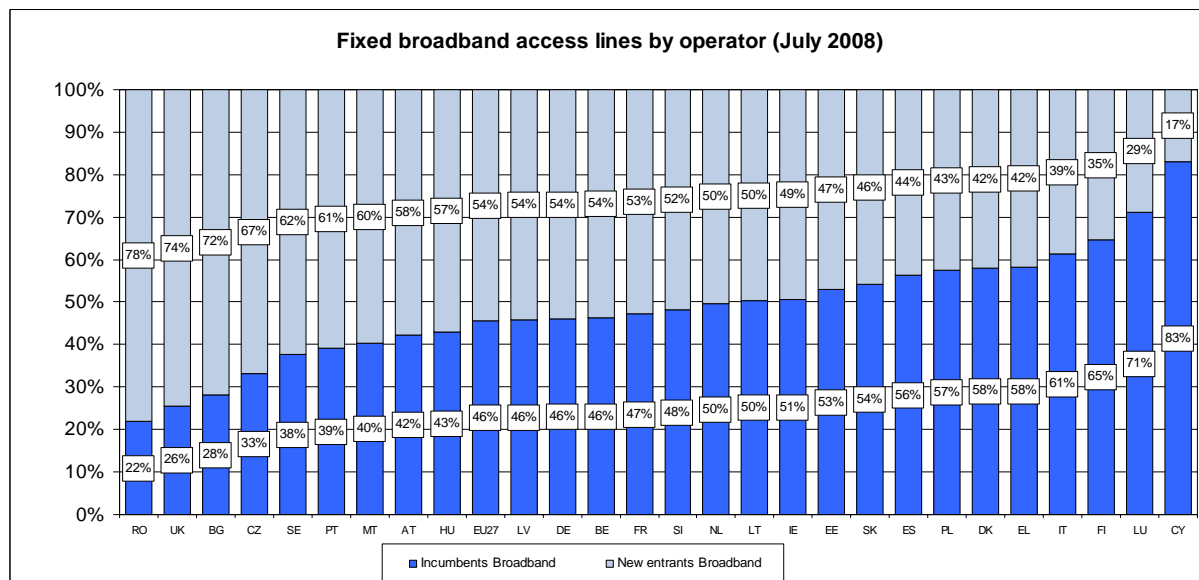


	Jan-06	Jul-06	Jan-07	Jul-07	Jan-08	Jul-08		Difference	Variation	Lines/day	Difference	Variation	Lines/day
								July 06 - July 07			July 07 - July 08		
BE	763,113	816,239	931,172	984,121	1,095,213	1,153,760	BE	167,882	20.6%	460	169,639	17.2%	463
BG	0	0	250,511	317,013	416,470	525,515	BG	n.a.	n.a.	n.a.	208,502	65.8%	570
CZ	341,000	461,030	594,050	690,200	884,200	982,000	CZ	229,170	49.7%	628	291,800	42.3%	797
DK	506,890	658,954	678,755	700,801	753,920	788,825	DK	41,847	6.4%	115	88,024	12.6%	241
DE	350,600	479,900	612,200	925,503	1,031,000	1,392,300	DE	445,603	92.9%	1,221	466,797	50.4%	1,275
EE	95,224	113,830	126,777	142,259	162,377	186,034	EE	28,429	25.0%	78	43,775	30.8%	120
EL	2,120	3,064	3,568	3,846	4,671	5,826	EL	782	25.5%	2	1,980	51.5%	5
ES	1,111,498	1,223,155	1,390,048	1,608,823	1,761,069	1,870,740	ES	385,668	31.5%	1,057	261,917	16.3%	716
FR	560,000	600,000	660,000	700,000	710,000	750,000	FR	100,000	16.7%	274	50,000	7.1%	137
IE	74,570	97,000	138,200	180,300	203,265	229,996	IE	83,300	85.9%	228	49,696	27.6%	136
IT	340,048	327,147	341,911	350,147	367,446	388,679	IT	23,000	7.0%	63	38,532	11.0%	105
CY	2,768	693	636	895	1,202	2,134	CY	202	29.1%	1	1,239	138.4%	3
LV	61,865	71,931	134,077	132,578	190,749	200,500	LV	60,647	84.3%	166	67,922	51.2%	186
LT	129,248	152,179	181,262	225,176	276,211	301,854	LT	72,997	48.0%	200	76,678	34.1%	210
LU	7,304	8,235	9,055	10,295	12,331	16,797	LU	2,060	25.0%	6	6,502	63.2%	18
HU	206,826	274,390	380,890	472,912	676,866	787,324	HU	198,522	72.4%	544	314,412	66.5%	859
MT	21,150	21,420	20,629	21,800	30,650	41,906	MT	380	1.8%	1	20,106	92.2%	55
NL	1,562,521	1,893,000	2,015,000	2,141,000	2,199,600	2,310,000	NL	248,000	13.1%	679	169,000	7.9%	462
AT	493,100	528,688	567,232	598,028	637,723	638,730	AT	69,340	13.1%	190	40,702	6.8%	111
PL	285,483	405,415	500,666	909,430	947,213	1,213,591	PL	504,015	124.3%	1,381	304,161	33.4%	831
PT	514,385	523,746	544,390	585,329	621,506	658,077	PT	61,583	11.8%	169	72,748	12.4%	199
RO	0	0	989,371	1,335,766	1,584,470	1,800,452	RO	n.a.	n.a.	n.a.	464,686	34.8%	1,270
SI	67,405	73,674	85,321	85,295	100,586	119,653	SI	11,621	15.8%	32	34,358	40.3%	94
SK	33,440	74,800	97,244	161,054	198,828	214,665	SK	86,254	115.3%	236	53,611	33.3%	146
FI	242,095	240,377	264,515	305,833	346,479	346,602	FI	65,456	27.2%	179	40,769	13.3%	111
SE	615,235	677,685	799,850	914,700	1,087,500	1,204,500	SE	237,015	35.0%	649	289,800	31.7%	792
UK	2,623,105	2,910,800	3,067,000	3,200,900	3,371,500	3,598,400	UK	290,100	10.0%	795	397,500	12.4%	1,086

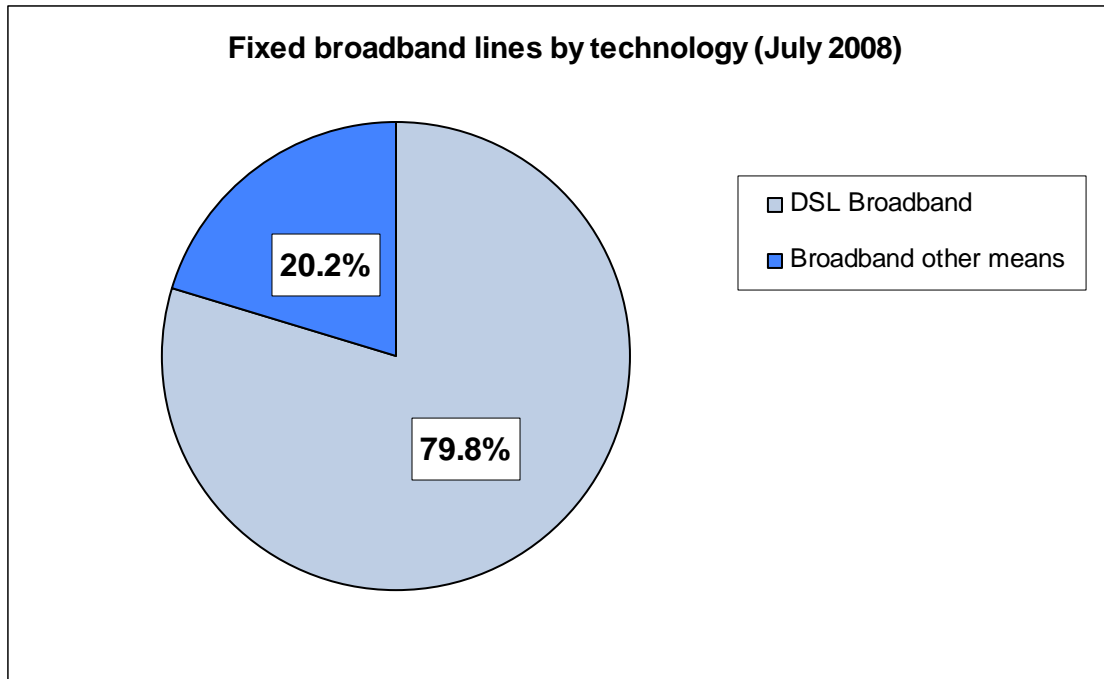
Fixed broadband access lines by operator in EU27



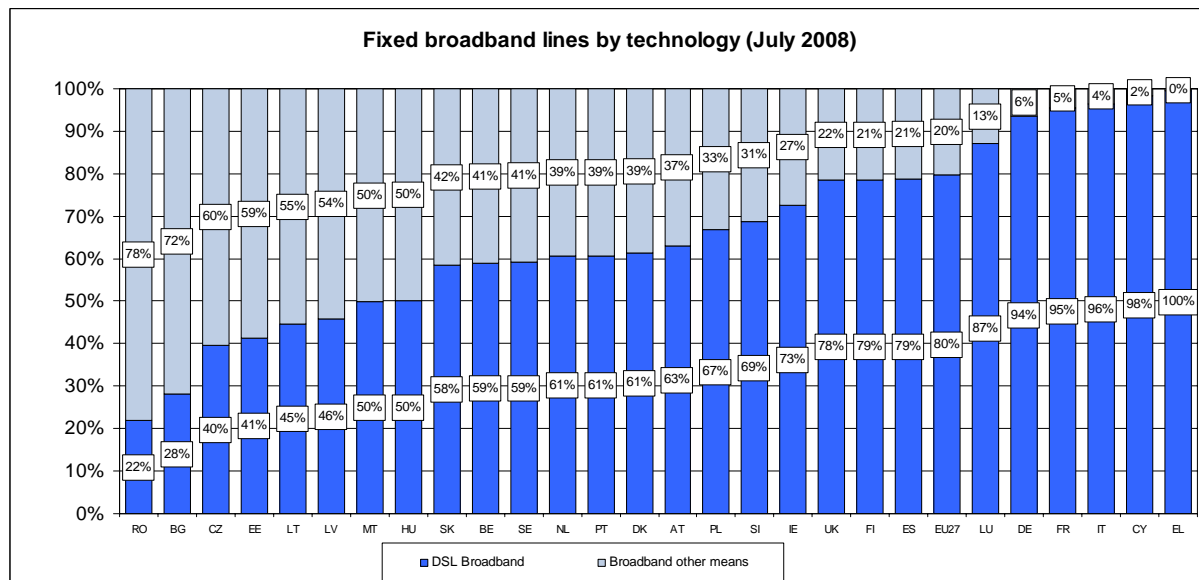
Fixed broadband access lines by operator		
	Incumbents Broadband	New entrants Broadband
July 2008	45.6%	54.4%



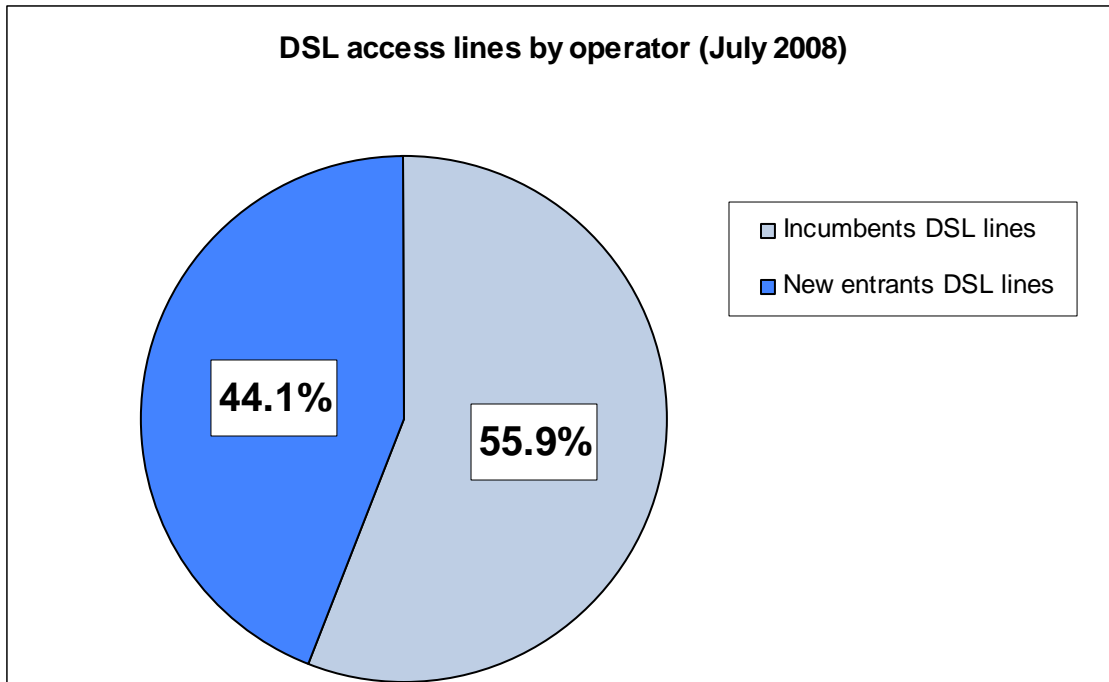
Fixed broadband access lines by technology in EU27



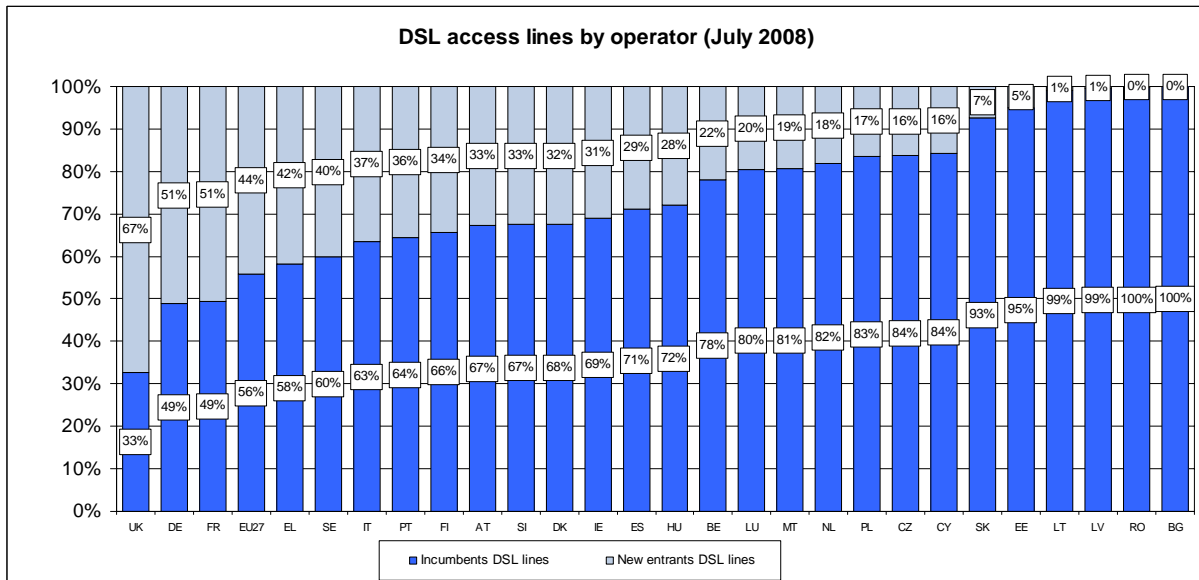
Fixed broadband lines by technology		
	DSL Broadband	Broadband other means
July 2008	79.8%	20.2%



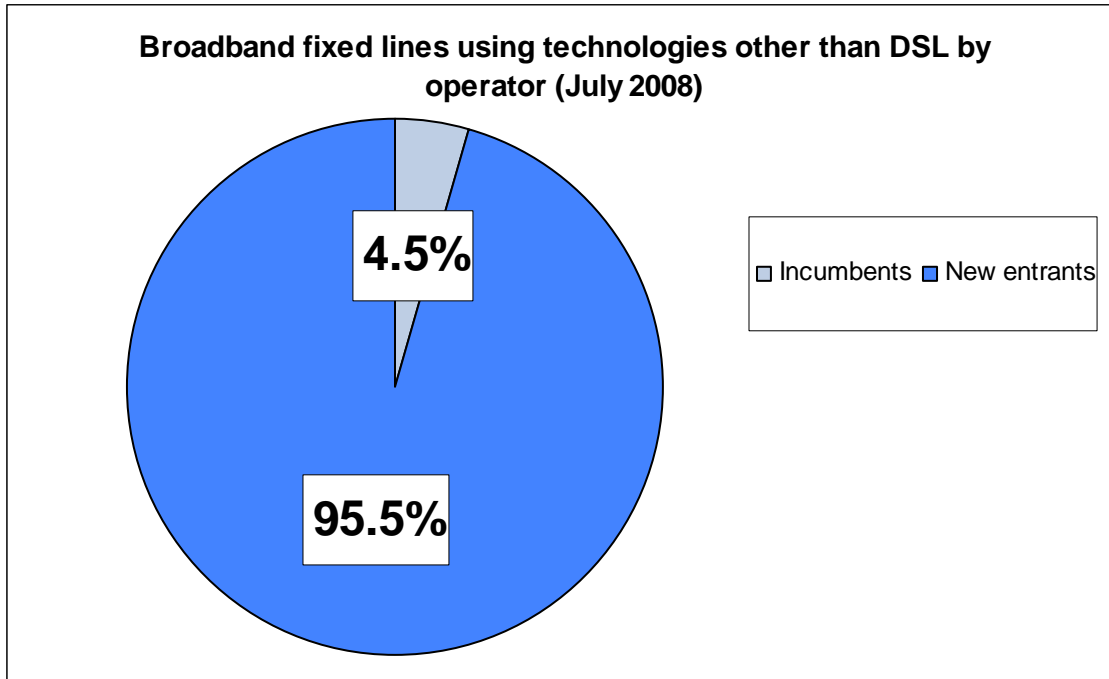
DSL access lines by operator in EU27



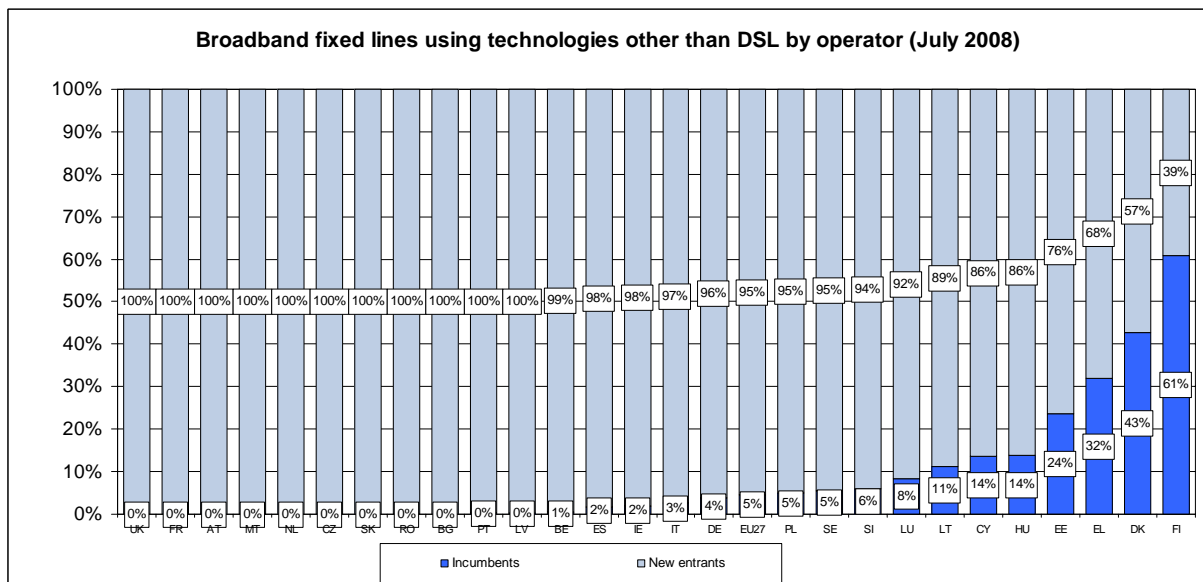
DSL access lines by operator		
	Incumbents DSL lines	New entrants DSL lines
July 2008	55.9%	44.1%



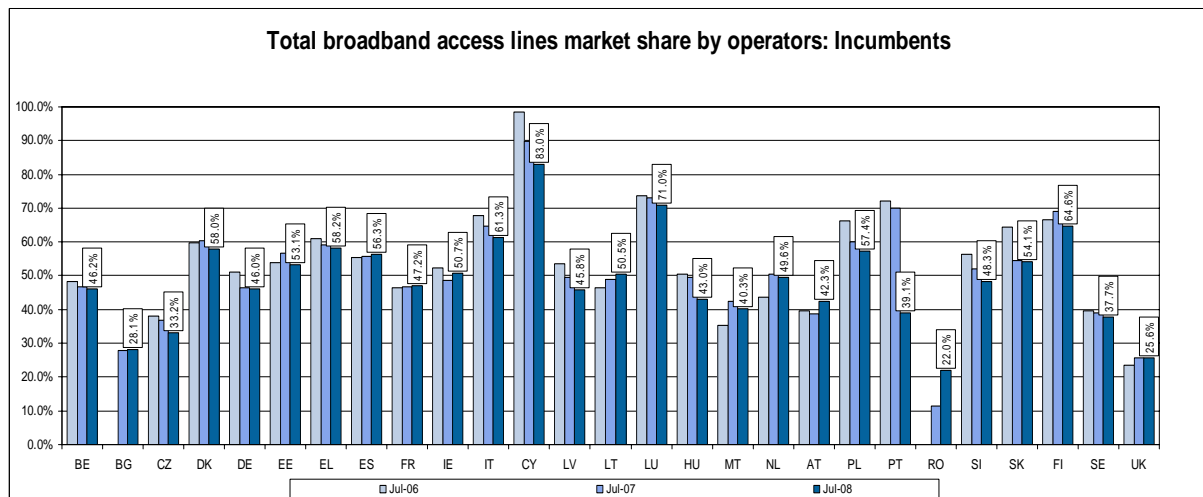
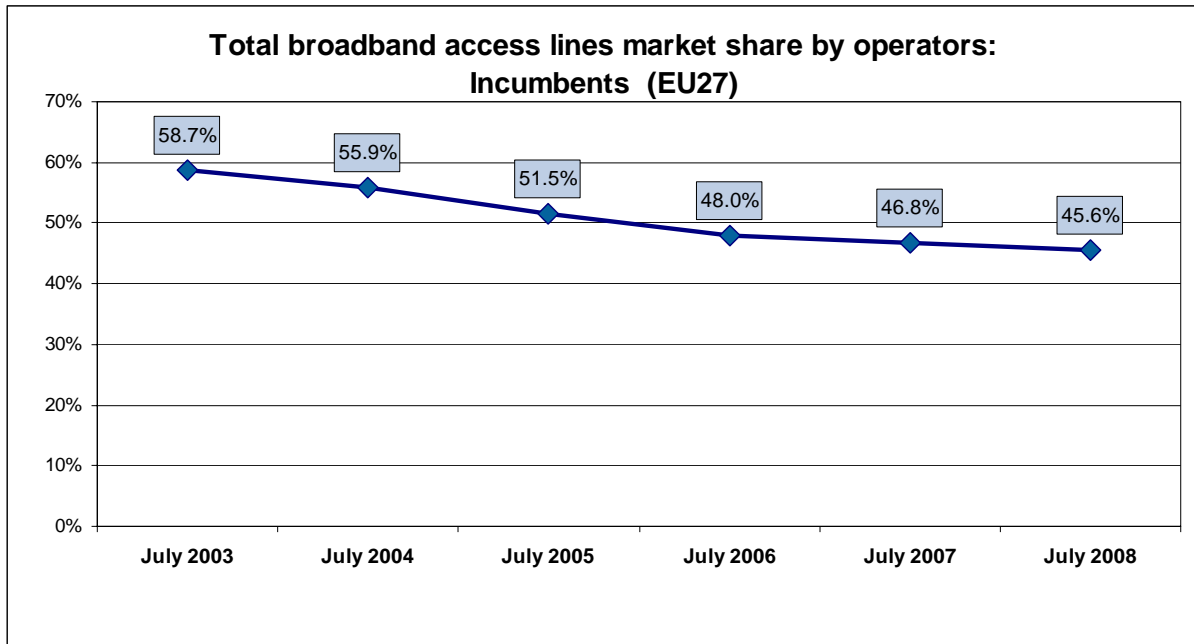
Broadband fixed lines using technologies other than DSL by operator in EU 27



Broadband fixed lines using technologies other than DSL by operator		
	Incumbents	New entrants
July 2008	4.5%	95.5%

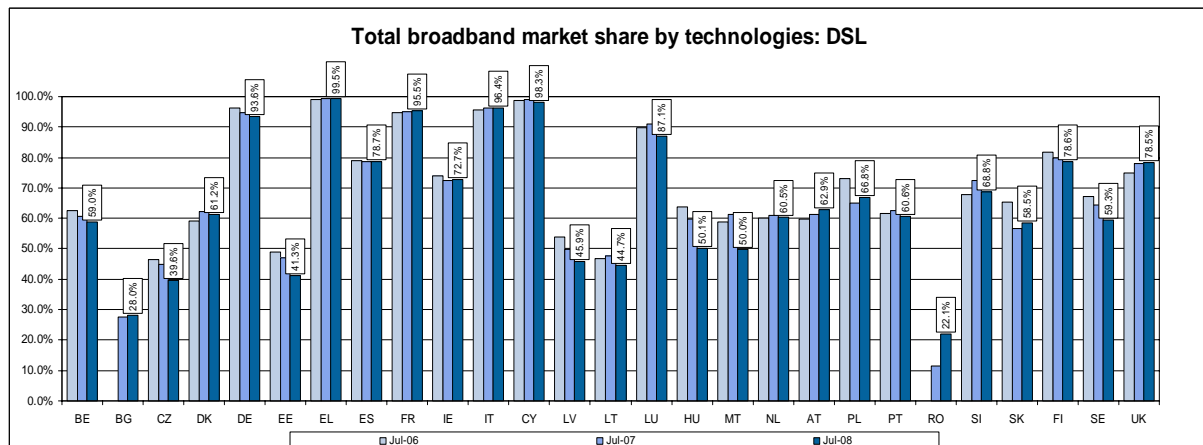
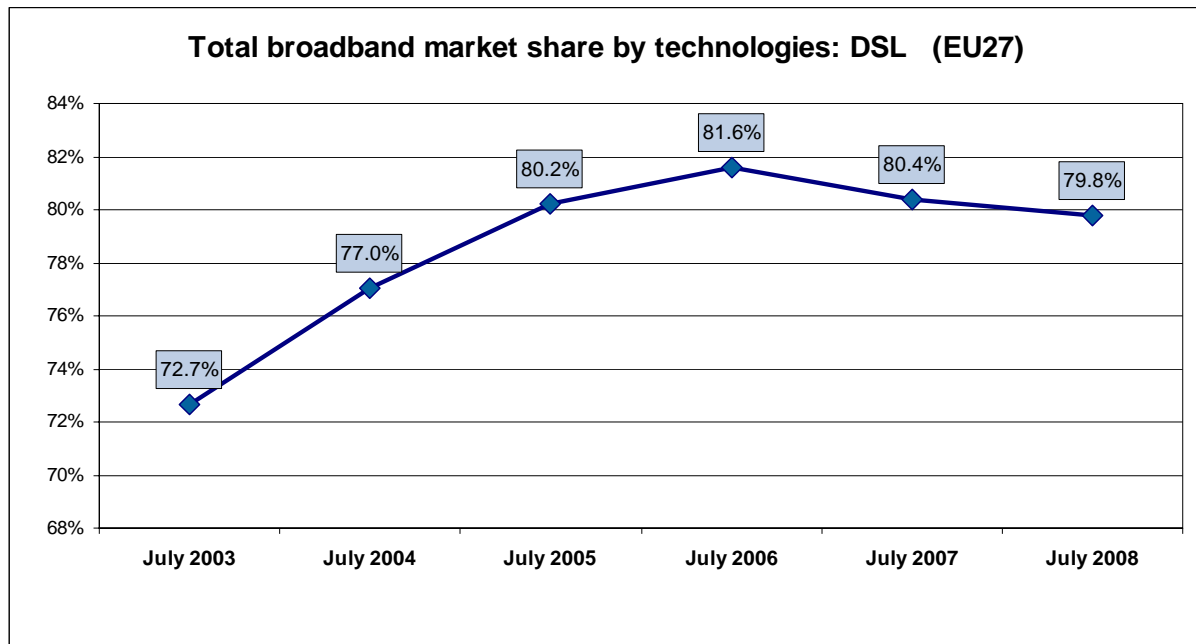


Trends in fixed broadband access lines by operator in EU - Incumbents



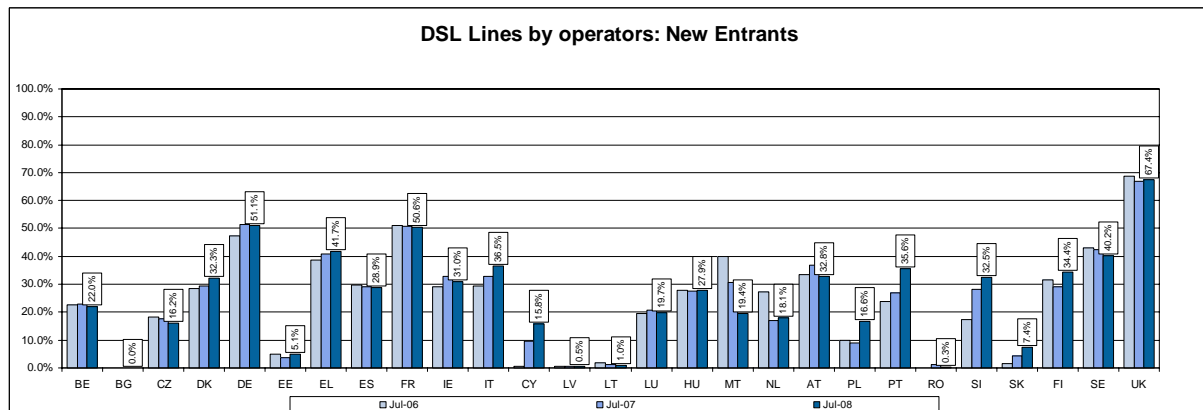
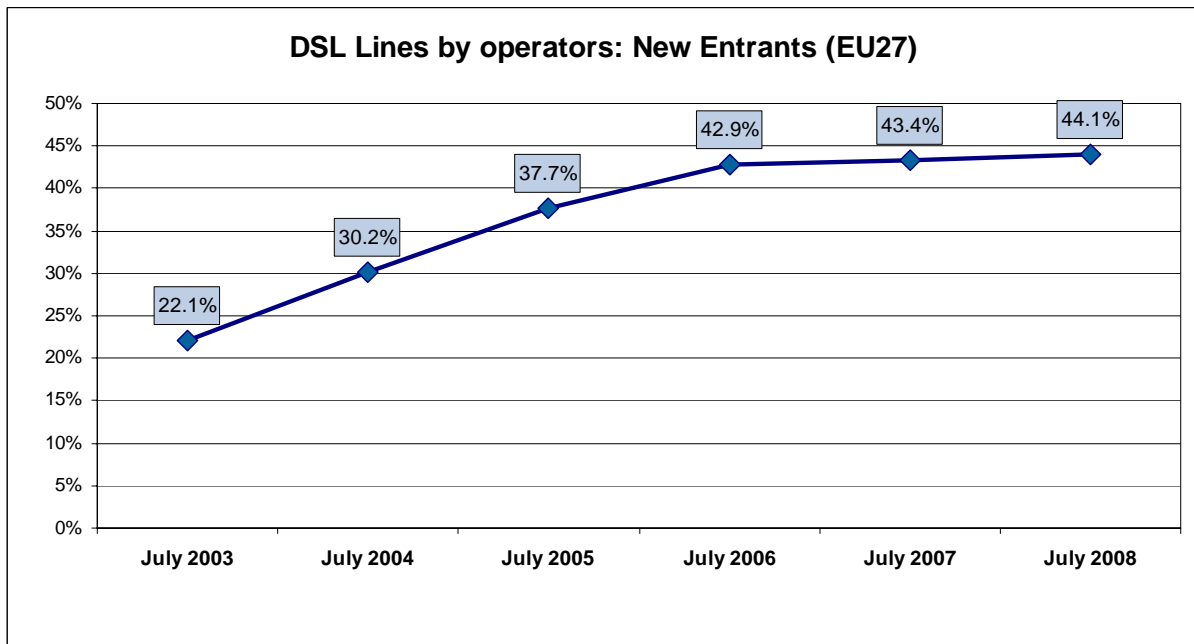
Country	Jan-06	Jul-06	Jan-07	Jul-07	Jan-08	Jul-08
BE	48.3%	48.4%	46.9%	46.8%	45.5%	46.2%
BG	n.a.	n.a.	27.6%	27.8%	28.0%	28.1%
CZ	42.3%	37.9%	37.2%	36.9%	33.9%	33.2%
DK	58.7%	59.7%	60.1%	60.5%	58.5%	58.0%
DE	60.1%	51.2%	48.0%	46.4%	46.1%	46.0%
EE	51.9%	53.7%	57.4%	56.6%	54.6%	53.1%
EL	69.6%	60.9%	63.1%	59.0%	57.8%	58.2%
ES	53.3%	55.4%	55.9%	55.8%	56.1%	56.3%
FR	44.8%	46.5%	46.2%	46.8%	47.7%	47.2%
IE	55.6%	52.4%	48.0%	48.6%	50.5%	50.7%
IT	71.7%	67.9%	66.6%	64.8%	63.6%	61.3%
CY	100.0%	98.5%	94.5%	89.8%	88.0%	83.0%
LV	52.6%	53.7%	44.3%	49.5%	44.2%	45.8%
LT	43.7%	46.5%	49.7%	48.8%	50.5%	50.5%
LU	75.8%	73.6%	74.1%	73.2%	74.1%	71.0%
HU	53.8%	50.6%	50.9%	49.5%	44.5%	43.0%
MT	30.6%	35.3%	38.2%	42.6%	41.2%	40.3%
NL	44.6%	43.7%	44.8%	50.4%	50.4%	49.6%
AT	39.7%	39.7%	39.7%	38.8%	38.7%	42.3%
PL	64.3%	66.2%	68.2%	60.2%	60.5%	57.4%
PT	76.3%	72.1%	71.1%	70.1%	39.7%	39.1%
RO	n.a.	n.a.	8.9%	11.5%	18.6%	22.0%
SI	60.5%	56.3%	52.9%	52.0%	49.8%	48.3%
SK	75.9%	64.3%	63.2%	54.3%	54.8%	54.1%
FI	66.4%	66.5%	69.7%	69.1%	66.2%	64.6%
SE	38.4%	39.6%	39.3%	38.9%	37.5%	37.7%
UK	24.8%	23.4%	23.7%	25.7%	25.8%	25.6%
EU27	50.0%	48.0%	46.82%	46.8%	46.0%	45.6%

Trends in fixed broadband access lines by technology in EU - DSL



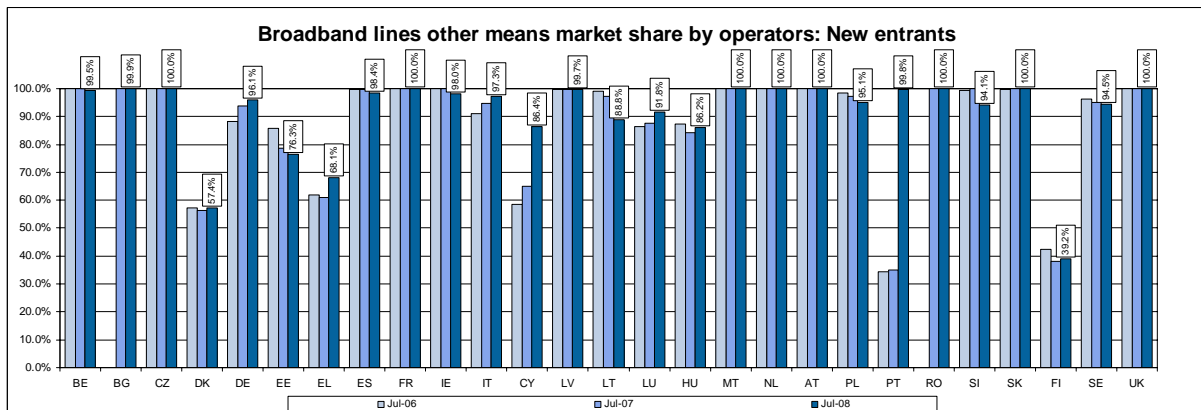
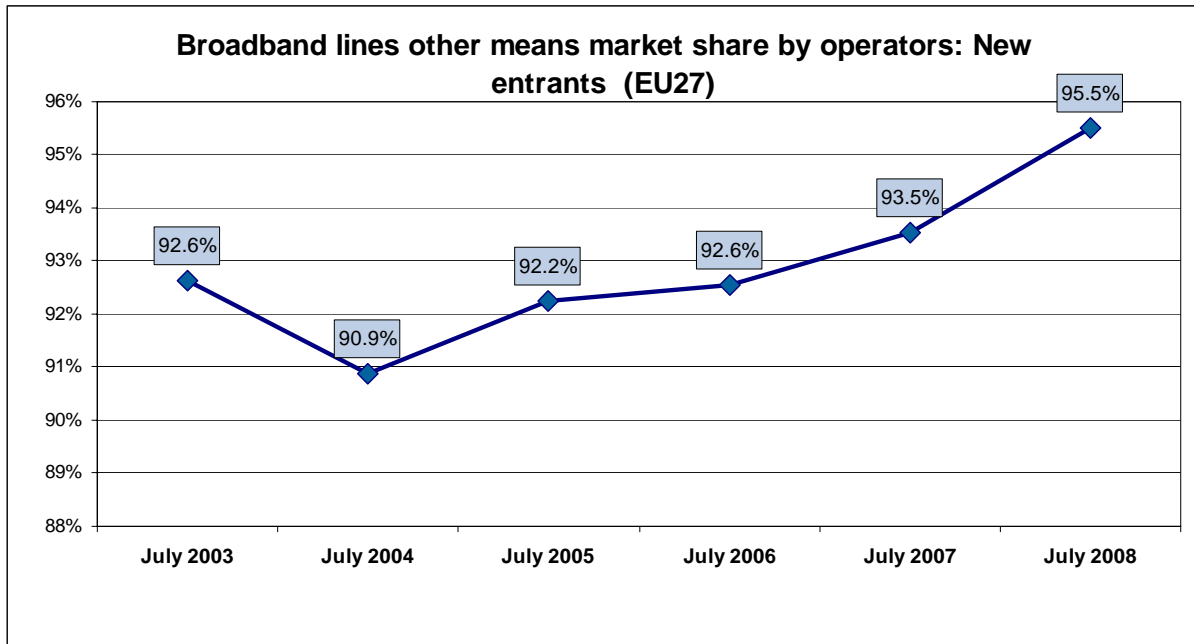
Country	Jan-06	Jul-06	Jan-07	Jul-07	Jan-08	Jul-08
BE	62.0%	62.4%	61.2%	60.8%	59.7%	59.0%
BG	n.a.	n.a.	27.5%	27.7%	28.2%	28.0%
CZ	47.5%	46.4%	45.4%	44.9%	41.0%	39.6%
DK	62.1%	59.0%	60.8%	62.2%	61.6%	61.2%
DE	96.7%	96.2%	95.9%	94.7%	94.7%	93.6%
EE	46.8%	49.0%	48.6%	47.0%	45.6%	41.3%
EL	98.7%	99.0%	99.3%	99.5%	99.5%	99.5%
ES	77.9%	78.9%	79.1%	78.5%	78.4%	78.7%
FR	94.4%	94.7%	94.9%	95.0%	95.5%	95.5%
IE	73.1%	73.9%	73.3%	72.4%	73.0%	72.7%
IT	95.1%	95.7%	96.0%	96.3%	96.4%	96.4%
CY	94.1%	98.6%	99.1%	99.0%	98.9%	98.3%
LV	52.9%	53.8%	44.5%	49.7%	44.4%	45.9%
LT	44.8%	46.8%	49.6%	47.8%	45.6%	44.7%
LU	89.6%	89.7%	90.8%	90.9%	89.8%	87.1%
HU	66.6%	63.9%	61.7%	59.7%	52.6%	50.1%
MT	58.8%	58.8%	59.1%	61.3%	55.5%	50.0%
NL	62.0%	60.1%	61.2%	60.8%	60.6%	60.5%
AT	58.1%	59.6%	60.6%	61.4%	61.5%	62.9%
PL	71.9%	73.0%	74.9%	65.1%	70.4%	66.8%
PT	57.9%	61.5%	63.0%	62.6%	61.1%	60.6%
RO	n.a.	n.a.	9.0%	11.6%	18.7%	22.1%
SI	65.7%	67.8%	69.5%	72.3%	71.1%	68.8%
SK	75.8%	65.3%	65.2%	56.8%	58.3%	58.5%
FI	79.3%	81.6%	81.5%	79.9%	78.6%	78.6%
SE	67.0%	67.3%	65.9%	64.5%	61.7%	59.3%
UK	73.5%	74.9%	76.6%	77.9%	78.4%	78.5%
EU27	81.3%	81.6%	80.80%	80.4%	80.3%	79.8%

Trends in DSL access lines by operator in EU – New entrants



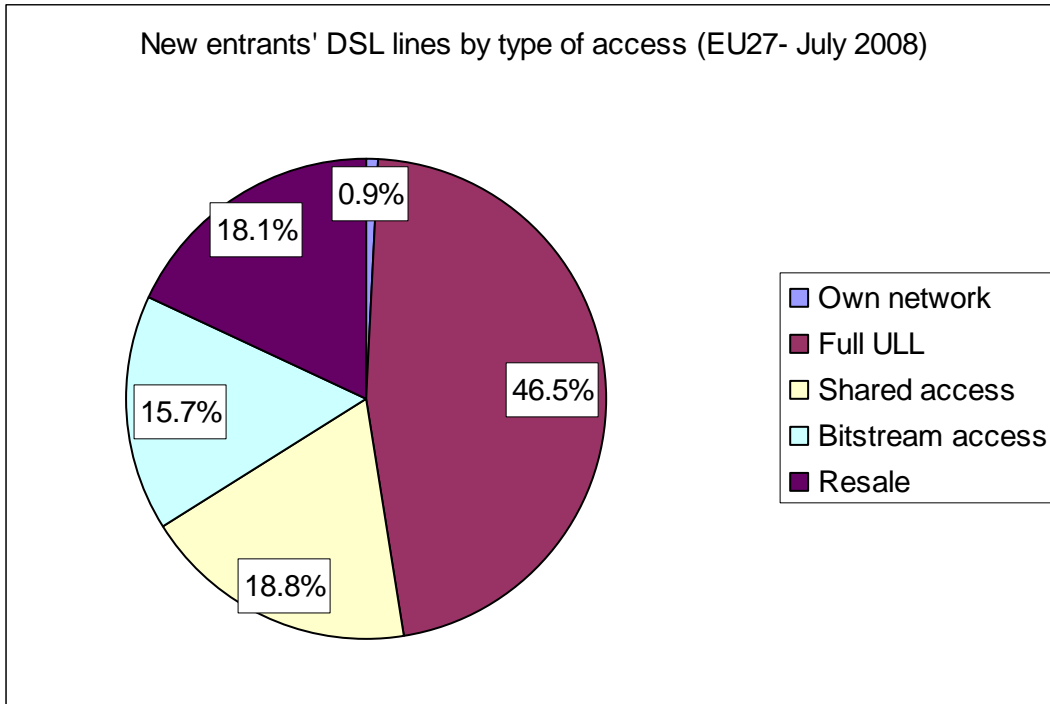
Country	Jan-06	Jul-06	Jan-07	Jul-07	Jan-08	Jul-08
BE	22.2%	22.5%	23.4%	23.0%	23.7%	22.0%
BG	n.a.	n.a.	0.0%	0.0%	1.0%	0.0%
CZ	11.0%	18.3%	18.0%	17.8%	17.1%	16.2%
DK	28.1%	28.5%	28.7%	29.3%	31.2%	32.3%
DE	38.3%	47.2%	50.3%	51.4%	51.4%	51.1%
EE	2.1%	5.0%	3.5%	3.8%	4.3%	5.1%
EL	30.0%	38.8%	36.7%	40.9%	42.1%	41.7%
ES	31.8%	29.9%	29.4%	29.0%	29.0%	28.9%
FR	52.5%	50.9%	51.3%	50.7%	50.0%	50.6%
IE	25.1%	29.2%	34.5%	32.8%	31.0%	31.0%
IT	25.3%	29.4%	30.9%	32.9%	34.2%	36.5%
CY	0.0%	0.7%	5.0%	9.6%	11.5%	15.8%
LV	1.0%	0.6%	0.8%	0.8%	0.8%	0.5%
LT	2.6%	1.8%	1.2%	1.1%	1.0%	1.0%
LU	17.0%	19.5%	19.6%	20.8%	18.8%	19.7%
HU	25.6%	28.0%	27.1%	27.6%	28.3%	27.9%
MT	48.0%	39.9%	35.4%	30.6%	25.8%	19.4%
NL	28.2%	27.3%	26.8%	17.1%	16.9%	18.1%
AT	31.6%	33.4%	34.5%	36.8%	37.0%	32.8%
PL	11.4%	10.0%	9.6%	9.1%	16.0%	16.6%
PT	17.3%	23.9%	25.9%	26.8%	35.2%	35.6%
RO	n.a.	n.a.	2.3%	1.2%	0.5%	0.3%
SI	8.6%	17.3%	24.0%	28.2%	30.5%	32.5%
SK	0.0%	1.7%	3.2%	4.4%	5.9%	7.4%
FI	32.7%	31.5%	27.9%	29.1%	33.0%	34.4%
SE	42.7%	43.0%	42.1%	42.3%	41.9%	40.2%
UK	66.3%	68.8%	69.1%	67.0%	67.1%	67.4%
EU27	40.3%	42.9%	43.62%	43.4%	43.7%	44.1%

Trends in broadband fixed lines using technologies other than DSL in EU – New entrants

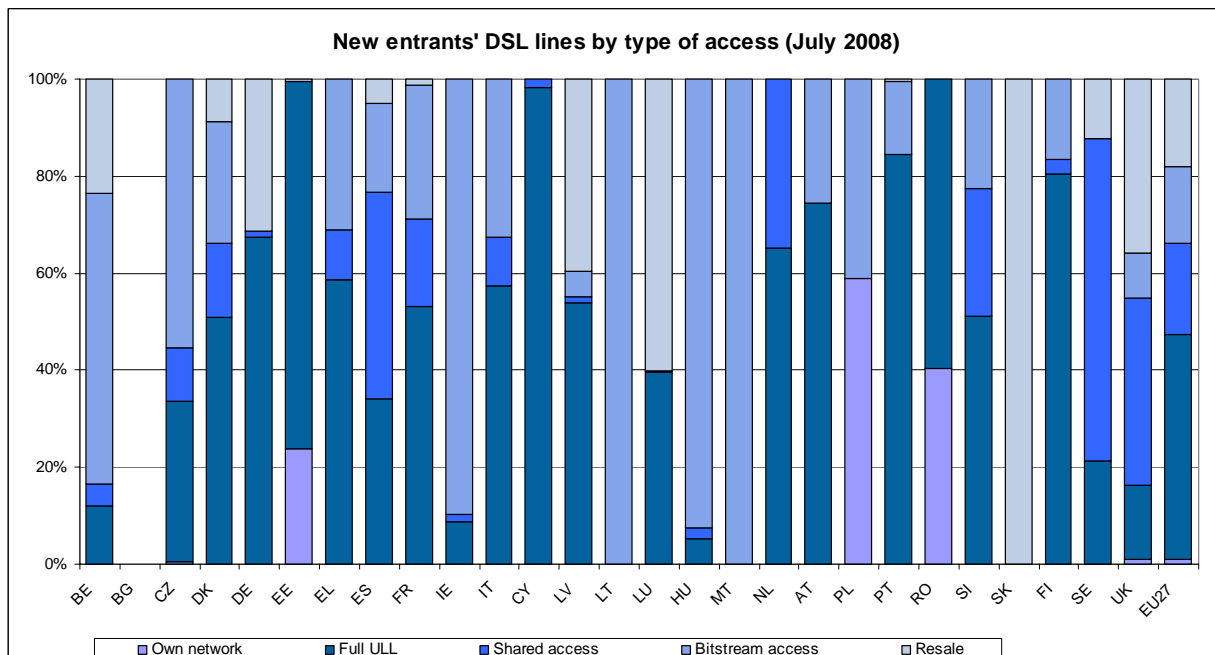


Country	Jan-06	Jul-06	Jan-07	Jul-07	Jan-08	Jul-08
BE	100.0%	100.0%	100.0%	100.0%	100.0%	99.5%
BG	n.a.	n.a.	99.8%	99.9%	99.9%	99.9%
CZ	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
DK	63.0%	57.2%	57.4%	56.4%	58.0%	57.4%
DE	86.6%	88.3%	90.3%	93.8%	99.8%	96.1%
EE	88.6%	85.8%	79.7%	78.6%	79.7%	76.3%
EL	64.2%	61.8%	60.4%	61.0%	63.5%	68.1%
ES	99.5%	99.7%	99.7%	99.7%	98.2%	98.4%
FR	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
IE	96.9%	100.0%	100.0%	100.0%	99.7%	98.0%
IT	87.6%	91.1%	93.0%	94.6%	96.0%	97.3%
CY	0.0%	58.4%	53.6%	65.1%	62.7%	86.4%
LV	99.5%	99.6%	99.7%	99.7%	99.8%	99.7%
LT	99.8%	99.0%	98.5%	97.1%	90.1%	88.8%
LU	86.5%	86.4%	89.1%	87.5%	88.7%	91.8%
HU	87.4%	87.3%	84.7%	84.3%	85.6%	86.2%
MT	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
NL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
AT	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
PL	97.7%	98.5%	98.2%	97.2%	95.2%	95.1%
PT	32.5%	34.3%	33.9%	35.1%	99.8%	99.8%
RO	n.a.	n.a.	100.0%	99.9%	99.9%	100.0%
SI	98.7%	99.3%	99.6%	99.9%	98.6%	94.1%
SK	99.4%	99.7%	99.7%	99.8%	100.0%	100.0%
FI	37.2%	42.5%	41.0%	38.1%	36.7%	39.2%
SE	100.0%	96.3%	96.7%	95.1%	95.9%	94.5%
UK	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
EU27	92.4%	92.6%	93.38%	93.5%	95.7%	95.5%

New entrants DSL lines by access type in EU



July 2008	
Own network	0.9%
Full ULL	46.5%
Shared access	18.8%
Bitstream access	15.7%
Resale	18.1%
Total L.L.U	65.3%



New entrants' DSL lines by type of access (July 2008)					
Country	Own network	Full ULL	Shared access	Bitstream access	Resale
Country	PSTN DSL New ON	PSTN DSL New FULL UL	PSTN DSL New SA	PSTN DSL New BA	PSTN DSL New Resale
BE	0.0%	11.9%	4.6%	59.9%	23.7%
BG	n.a.	n.a.	n.a.	n.a.	n.a.
CZ	0.5%	33.1%	11.2%	55.3%	0.0%
DK	0.0%	50.9%	15.2%	25.2%	8.7%
DE	0.1%	67.2%	1.4%	0.0%	31.3%
EE	23.9%	75.5%	0.0%	0.0%	0.6%
EL	0.0%	58.5%	10.3%	31.1%	0.0%
ES	0.0%	34.0%	42.6%	18.3%	5.1%
FR	0.0%	53.2%	18.1%	27.5%	1.2%
IE	0.0%	8.7%	1.6%	89.7%	0.0%
IT	0.0%	57.3%	10.1%	32.5%	0.1%
CY	0.0%	98.3%	1.7%	0.0%	0.0%
LV	0.0%	53.8%	1.3%	5.3%	39.7%
LT	0.0%	0.0%	0.0%	100.0%	0.0%
LU	0.1%	39.5%	0.3%	0.0%	60.0%
HU	0.0%	5.3%	2.2%	92.6%	0.0%
MT	0.0%	0.0%	0.0%	100.0%	0.0%
NL	0.0%	65.2%	34.8%	n.a.	0.0%
AT	0.0%	74.5%	0.0%	25.4%	0.0%
PL	58.9%	0.0%	0.0%	41.0%	0.0%
PT	0.0%	84.6%	0.0%	15.0%	0.4%
RO	40.2%	59.8%	0.0%	0.0%	0.0%
SI	0.0%	51.0%	26.5%	22.4%	0.0%
SK	0.0%	0.0%	0.0%	0.0%	100.0%
FI	0.0%	80.5%	2.9%	16.6%	0.0%
SE	0.0%	21.4%	66.2%	0.0%	12.3%
UK	1.0%	15.3%	38.6%	9.1%	36.0%
EU27	0.9%	46.5%	18.8%	15.7%	18.1%

ANNEX 2: DATA ON LOCAL BROADBAND ACCESS BY COUNTRY

This annex provides additional information by Member State, when available, on the following indicators:

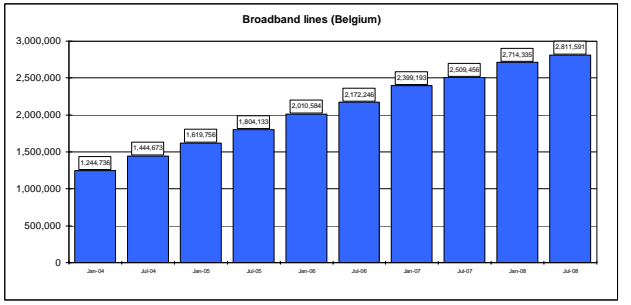
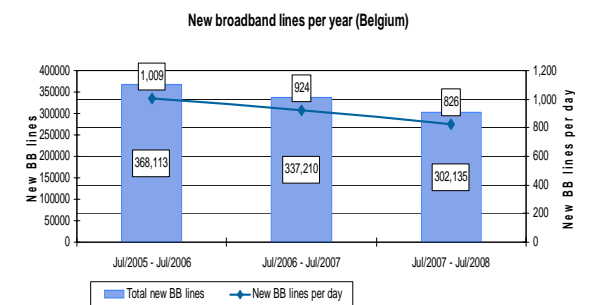
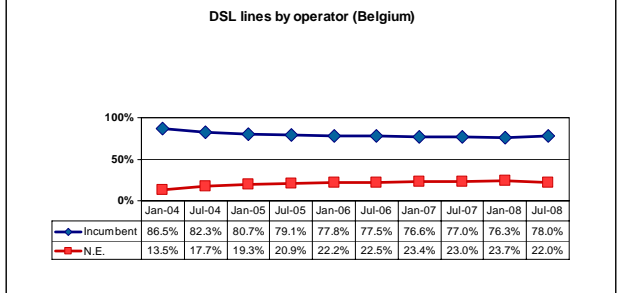
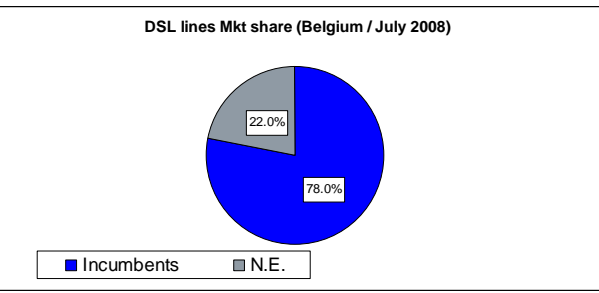
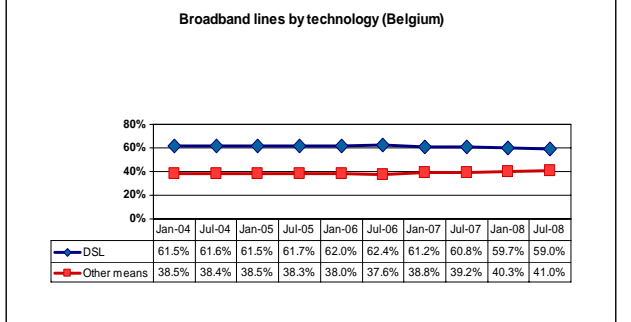
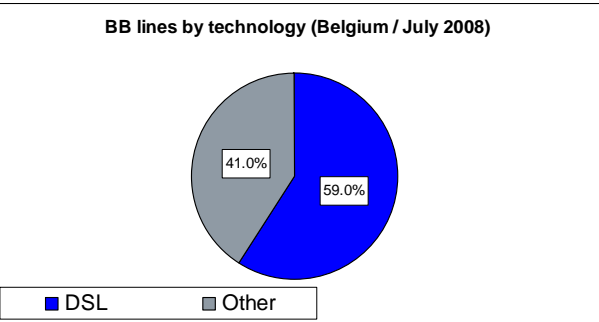
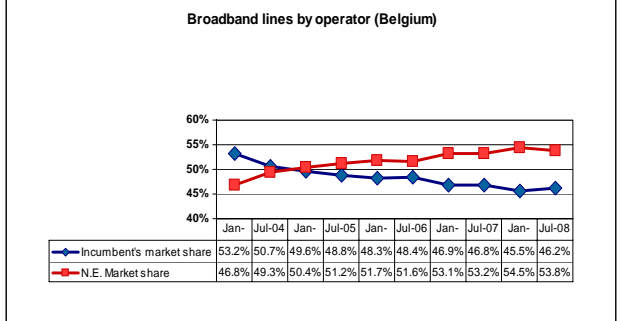
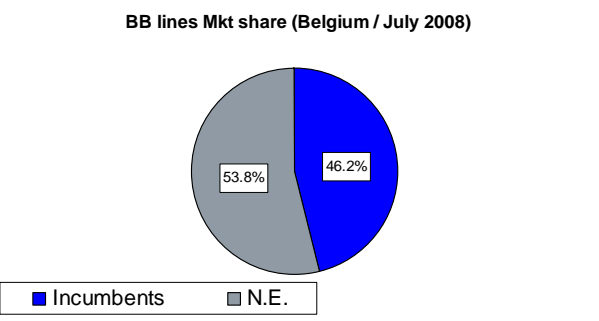
1. BB lines by operator as at 1 July 2008;
2. BB lines by operator for the period between 1 January 2004 and 1 July 2008;
3. BB lines by technology as at 1 July 2008;
4. BB lines by technology for the period between 1 January 2004 and 1 July 2008;
5. DSL lines by operator as at 1 July 2008;
6. DSL lines by operator for the period between 1 January 2004 and 1 July 2008;
7. New broadband lines added per day and per year in 2005, 2006, 2007 and 2008;
8. Total number of broadband lines for the period between 1 January 2004 and 1 July 2008.

Data for CY, CZ, EE, HU, LT, LV, MT, PL, SI and SK are predominately available since January 2004. Data for BG and RO are available since January 2007.

Retail fixed broadband access in Belgium, July 2008

	New entrants' DSL lines on PSTN							Incumbents' access lines by other means							New entrants' access lines by other means											
	Incumbents' DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	
July 2002	336,297	0	204	63	70	64,819	65,156	0	0	940	0	0	0	0	7	947	26	285,333	4,056	0	0	0	0	155	0	289,570
January 2003	442,310	0	1,432	134	333	79,410	81,309	6	0	940	0	0	0	0	212	0	1,158	26	349,542	2,849	0	0	0	170	0	352,587
July 2003	534,008	0	1,491	2,159	2,789	87,543	93,662	6	0	44	0	0	0	0	0	50	1	415,617	2,178	0	0	0	0	51	0	417,847
January 2004	661,009	0	1,359	2,314	42,340	57,562	103,575	0	0	16	0	0	0	0	0	16	0	477,745	1,734	0	0	0	0	58	0	478,537
July 2004	731,809	0	2,849	2,309	80,511	71,816	157,485	0	0	16	0	0	0	0	0	16	7	553,584	1,734	0	0	0	0	38	0	555,363
January 2005	803,638	0	3,178	2,416	110,688	76,196	192,480	0	0	41	0	0	0	0	0	41	8	622,777	771	0	0	0	0	41	0	623,597
July 2005	880,393	0	3,872	1,874	156,976	70,526	233,248	0	0	41	0	0	0	0	0	41	70	688,379	1,826	0	0	0	0	76	0	690,451
January 2006	970,668	0	4,205	2,010	196,119	74,470	276,803	0	0	0	0	0	0	0	0	0	3,597	757,388	2,047	0	0	0	0	81	0	763,113
July 2006	1,051,090	0	6,451	4,264	238,361	55,841	304,917	0	0	117	0	0	0	0	0	117	117	812,525	0	0	0	0	0	0	1,228	816,122
January 2007	1,124,673	0	22,366	21,080	257,719	42,183	343,348	0	0	0	0	0	0	0	0	895	0	6,968	878,360	45,177	14	0	0	653	1,363	931,172
July 2007	1,174,444	0	33,686	18,659	285,347	33,199	350,891	0	0	0	0	0	0	0	0	0	0	8,349	974,269	1,384	13	0	0	106	1,394	984,121
January 2008	1,235,545	0	38,449	19,068	307,676	18,384	383,577	0	0	0	0	0	0	0	0	0	0	14,313	1,071,107	9,737	56	0	0	0	0	1,095,213
July 2008	1,293,330	0	43,398	16,597	218,243	86,263	364,501	230	0	5,601	0	0	0	0	0	5,831	14,086	1,132,075	11,571	611	0	0	0	0	0	1,147,929

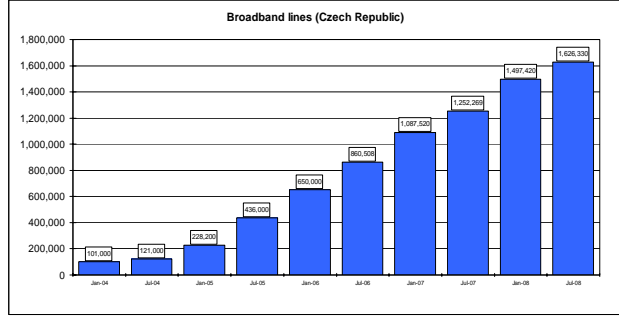
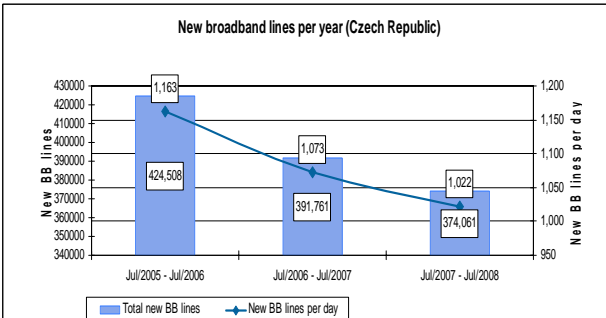
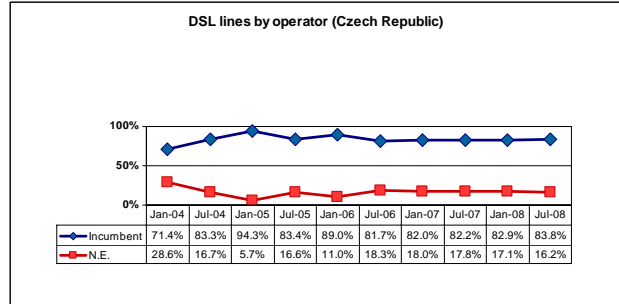
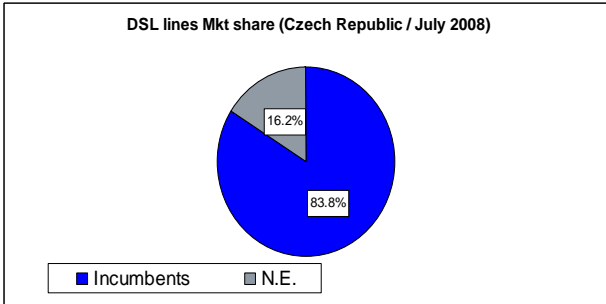
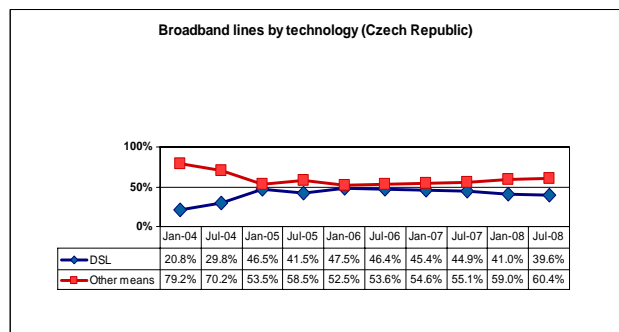
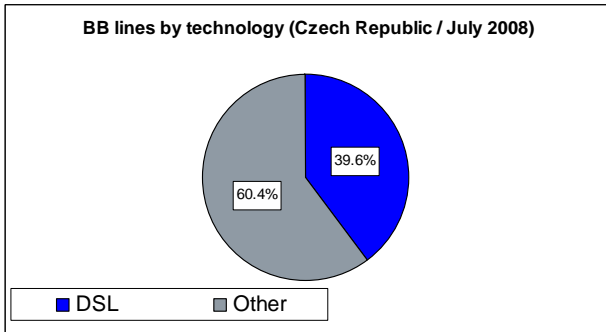
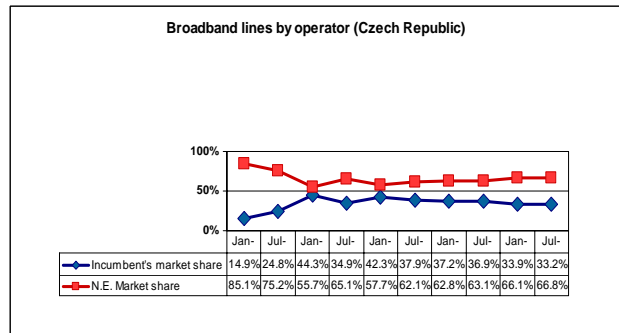
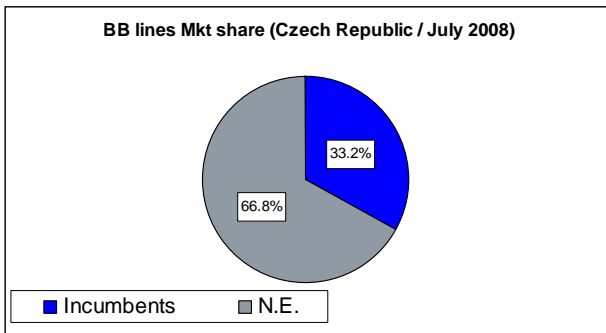
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	337,244	48.7%	354,726	51.3%	401,453	58.0%	290,517	42.0%	691,970
January 2003	443,468	50.5%	433,896	49.5%	523,619	59.7%	353,745	40.3%	877,364
July 2003	534,058	51.1%	511,809	48.9%	627,970	60.0%	417,897	40.0%	1,045,867
January 2004	661,624	53.2%	583,112	46.8%	765,183	61.5%	479,553	38.5%	1,244,736
July 2004	731,825	50.7%	712,848	49.3%	889,294	61.6%	555,379	38.4%	1,444,673
January 2005	803,679	49.6%	816,077	50.4%	996,118	61.5%	623,638	38.5%	1,619,756
July 2005	880,434	48.8%	923,699	51.2%	1,113,641	61.7%	690,492	38.3%	1,804,133
January 2006	970,668	48.3%	1,039,916	51.7%	1,247,471	62.0%	763,113	38.0%	2,010,584
July 2006	1,051,207	48.4%	1,121,039	51.6%	1,356,007	62.4%	816,239	37.6%	2,172,246
January 2007	1,124,673	46.9%	1,274,520	53.1%	1,468,021	61.2%	931,172	38.8%	2,399,193
July 2007	1,174,444	46.8%	1,335,012	53.2%	1,525,335	60.8%	984,121	39.2%	2,509,456
January 2008	1,235,545	45.5%	1,478,790	54.5%	1,619,122	59.7%	1,095,213	40.3%	2,714,335
July 2008	1,299,161	46.2%	1,512,430	53.8%	1,657,831	59.0%	1,153,760	41.0%	2,811,591



Retail fixed broadband access in Czech Republic, July 2008

	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means								
	Incumbents' DSL lines	Own network	Full ULL	Shared access	Blstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2004	15,000	0	0	0	0	6,000	6,000	0	0	0	0	0	0	0	0	0	45,000	35,000	0	0	0	0	0	0	80,000
July 2004	30,000	0	0	0	0	6,000	6,000	0	0	0	0	0	0	0	0	0	45,000	40,000	0	0	0	0	0	0	85,000
January 2005	100,000	0	0	0	0	6,000	6,000	1,000	0	0	0	0	0	0	0	1,000	60,000	60,000	0	0	1,200	0	0	0	121,200
July 2005	151,000	0	0	0	0	30,000	30,000	1,000	0	0	0	0	0	0	0	1,000	160,000	90,000	0	0	4,000	0	0	0	254,000
January 2006	275,000	0	34,000	0	0	0	34,000	0	0	0	0	0	0	0	0	188,000	138,000	0	11,000	4,000	0	0	0	0	341,000
July 2006	326,411	0	4,446	8,596	60,025	0	73,067	0	0	0	0	0	0	59	242,000	200,000	0	15,000	4,000	30	0	0	2,175	461,030	
January 2007	404,570	0	14,900	9,000	65,000	0	88,900	0	0	0	0	0	0	200	350,000	216,000	0	24,000	4,000	50	0	0	2,790	584,050	
July 2007	462,269	0	24,800	11,000	64,000	0	99,800	0	0	0	0	0	100	200	100	400,000	260,000	0	26,000	4,000	100	0	0	2,850	690,100
January 2008	508,199	500	31,345	11,225	61,851	0	105,021	0	0	0	0	0	100	0	100	520,000	309,000	0	55,000	0	100	0	0	3,000	884,100
July 2008	539,744	500	34,897	11,689	57,810	0	104,596	0	0	0	0	0	0	0	0	570,000	350,000	0	62,000	0	0	0	0	0	982,000

	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2004	15,000	14.9%	86,000	85.1%	21,000	20.8%	80,000	79.2%	101,000
July 2004	30,000	24.8%	91,000	75.2%	36,000	29.8%	85,000	70.2%	121,000
January 2005	101,000	44.3%	127,200	55.7%	106,000	46.5%	122,200	53.5%	228,200
July 2005	152,000	34.9%	284,000	65.1%	181,000	41.5%	255,000	58.5%	436,000
January 2006	275,000	42.3%	375,000	57.7%	309,000	47.5%	341,000	52.5%	650,000
July 2006	326,411	37.9%	534,097	62.1%	399,478	46.4%	461,030	53.6%	860,508
January 2007	404,570	37.2%	682,950	62.8%	493,470	45.4%	594,050	54.6%	1,087,520
July 2007	462,269	36.9%	789,900	63.1%	562,069	44.9%	690,200	55.1%	1,252,269
January 2008	508,299	33.9%	989,121	66.1%	613,220	41.0%	884,200	59.0%	1,497,420
July 2008	539,744	33.2%	1,086,586	66.8%	644,330	39.6%	982,000	60.4%	1,626,330

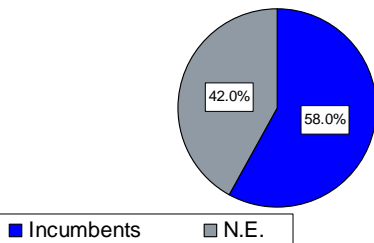


Retail fixed broadband access in Denmark, July 2008

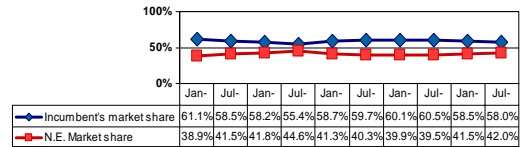
	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means									
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	
July 2002	184,600	0	42,028	5,403	250	0	47,681	0	40,299	3,489	0	0	0	0	0	43,788	718	87,789	5,887	0	0	0	0	0	94,394	
January 2003	249,033	0	46,162	8,672	3,077	0	57,911	0	40,299	3,489	0	0	0	0	0	43,788	1,415	100,249	5,887	0	0	0	0	0	1,390	
July 2003	321,645	0	47,811	11,859	9,277	0	69,047	0	59,839	3,634	0	0	0	0	0	54,413	1,760	118,378	6,270	0	0	0	0	0	34,944	
January 2004	372,677	0	47,056	16,180	37,446	0	100,682	0	68,245	3,921	0	0	0	0	0	72,166	2,341	137,968	5,175	0	0	0	0	0	36,897	
July 2004	427,322	0	49,884	27,749	57,054	0	134,687	0	106,532	3,804	0	0	0	1,685	0	112,021	3,007	160,353	5,245	0	0	0	0	0	76,842	
January 2005	478,069	0	49,912	41,153	69,777	0	160,872	0	120,818	3,940	0	0	0	1,894	0	128,552	3,678	175,803	4,324	0	0	0	0	0	91,069	
July 2005	519,377	0	55,553	52,833	76,380	10,286	195,152	0	132,626	3,284	0	0	0	3,036	0	138,946	3,128	199,233	4,681	8,758	4	88	119,064	0	334,956	
January 2006	597,035	0	62,179	79,415	81,979	10,089	233,662	3,477	177,394	3,348	0	0	0	3,431	711	187,650	6,822	212,207	4,953	11,841	111	105	83,201	268	319,240	
July 2006	677,154	0	80,529	87,540	83,368	18,986	270,423	6,129	206,459	2,857	0	0	0	4,737	706	282,192	17,879	222,510	4,526	19,574	146	95	112,032	231	378,762	
January 2007	750,251	203	124,750	63,726	91,203	21,786	301,668	45	278,370	6,173	0	0	0	4,727	780	289,315	20,733	242,213	862	17,441	149	98	107,944	223	389,440	
July 2007	815,691	116	150,262	63,604	95,772	28,030	338,784	45	289,181	9,481	0	0	0	7,118	754	305,825	21,731	237,749	1,605	28,625	7	94	105,165	279	394,976	
January 2008	830,406	0	178,309	64,068	102,700	31,761	376,838	0	295,731	0	0	0	0	21,199	679	316,930	22,862	245,977	0	70,253	5	96	97,787	319	436,990	
July 2008	843,406	0	205,270	61,100	101,758	35,109	403,237	46	302,385	0	220	0	0	33,697	698	336,338	23,401	231,264	0	85,199	5	0	112,619	259	452,487	

	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	228,388	61.6%	142,075	38.4%	232,281	62.7%	138,182	37.3%	370,463
January 2003	292,821	63.7%	166,852	36.3%	306,944	66.8%	152,729	33.2%	459,673
July 2003	376,058	62.0%	230,399	38.0%	390,692	64.4%	215,765	35.6%	606,457
January 2004	444,843	61.1%	283,063	38.9%	473,359	65.0%	254,547	35.0%	727,906
July 2004	539,343	58.5%	382,134	41.5%	562,009	61.0%	359,468	39.0%	921,477
January 2005	604,641	58.2%	434,737	41.8%	638,961	61.5%	400,417	38.5%	1,039,378
July 2005	658,323	55.4%	530,108	44.6%	714,529	60.1%	473,902	39.9%	1,188,431
January 2006	784,685	58.7%	552,902	41.3%	830,697	62.1%	506,890	37.9%	1,337,587
July 2006	959,346	59.7%	647,185	40.3%	947,577	59.0%	658,954	41.0%	1,606,531
January 2007	1,039,566	60.1%	691,108	39.9%	1,051,919	60.8%	678,755	39.2%	1,730,674
July 2007	1,121,516	60.5%	733,760	39.5%	1,154,475	62.2%	700,801	37.8%	1,855,276
January 2008	1,147,336	58.5%	813,828	41.5%	1,207,244	61.6%	753,920	38.4%	1,961,164
July 2008	1,179,744	58.0%	855,724	42.0%	1,246,643	61.2%	788,825	38.8%	2,035,468

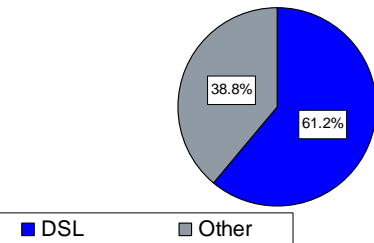
BB lines Mkt share (Denmark / July 2008)



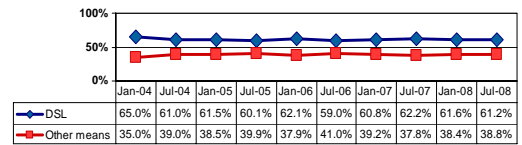
Broadband lines by operator (Denmark)



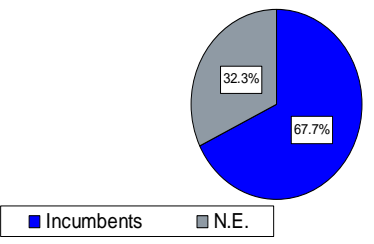
BB lines by technology (Denmark / July 2008)



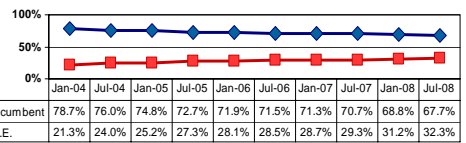
Broadband lines by technology (Denmark)



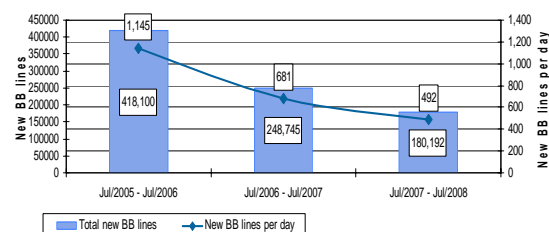
DSL lines Mkt share (Denmark / July 2008)



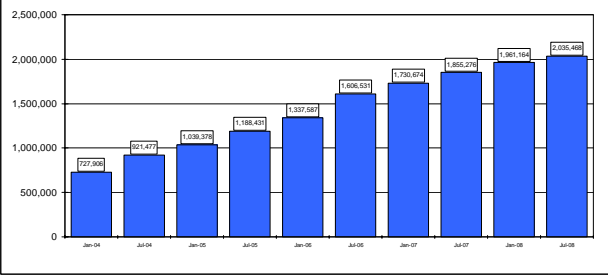
DSL lines by operator (Denmark)



New broadband lines per year (Denmark)



Broadband lines (Denmark)

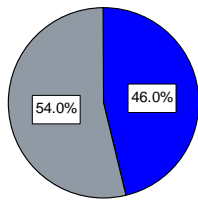


Retail fixed broadband access in Germany, July 2008

	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means								
	Incumbents' DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi	Tot. (exc. WiFi)
July 2002	2,453,000	0	117,000	11	0	0	117,011	0	0	0	0	0	0	0	0	0	0	38,000	0	0	0	3,000	0	0	41,000
January 2003	3,005,215	0	185,000	15	0	0	185,015	0	0	0	0	5,215	0	0	0	5,215	n.a.	45,000	0	0	5,000	4,200	0	0	54,200
July 2003	3,605,262	0	294,000	20	0	0	294,020	0	0	0	0	5,262	0	0	0	5,262	n.a.	53,000	0	0	23,000	6,000	0	0	82,000
January 2004	4,105,171	0	398,000	86	0	0	398,086	0	0	0	0	5,171	0	0	0	5,171	0	60,000	0	56,000	40,000	8,200	0	0	164,200
July 2004	4,704,906	0	585,000	1,141	0	0	586,141	0	0	0	0	4,906	0	0	0	4,906	0	70,000	0	45,000	9,200	0	0	0	124,200
January 2005	5,554,376	0	911,000	2,893	0	0	246,000	1,159,893	0	0	0	4,376	0	0	0	4,376	0	145,000	0	38,800	9,300	0	0	0	191,100
July 2005	6,043,828	0	1,400,000	3,941	0	0	735,000	2,138,941	0	0	40,145	0	3,883	0	0	43,828	0	196,000	0	47,000	9,600	0	0	0	252,600
January 2006	6,347,000	0	2,300,000	6,000	1,500	1,600,000	3,907,500	0	0	44,000	0	3,000	0	0	0	47,000	0	240,000	0	54,000	9,600	0	0	0	303,600
July 2006	6,456,300	0	3,200,000	27,000	1,500	2,900,000	5,128,500	0	0	53,000	0	3,300	0	0	0	5,300	0	360,000	0	54,000	9,600	0	0	0	423,600
January 2007	7,159,300	5,000	3,900,000	85,000	0	3,200,000	7,190,000	0	0	56,000	0	2,900	0	0	0	8,900	0	490,000	0	53,400	9,500	0	0	0	552,900
July 2007	8,010,000	0	4,810,000	116,000	0	3,540,000	8,466,000	0	0	54,100	0	3,003	0	0	0	8,600	0	571,003	0	49,000	9,400	0	0	0	868,400
January 2008	9,021,500	100,000	5,750,000	155,000	0	3,524,000	9,529,000	0	0	0	0	2,500	0	0	0	8,100	0	965,000	0	34,000	9,500	0	0	0	1,028,500
July 2008	9,954,300	12,000	6,940,000	144,000	0	3,230,000	10,326,000	0	0	52,000	0	2,300	0	0	0	8,000	0	1,300,000	0	28,000	10,000	0	0	0	1,338,000

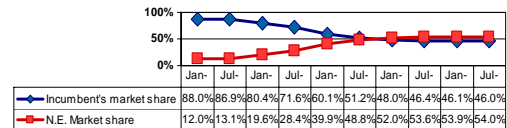
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share-DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	2,453,000	93.9%	158,011	6.1%	2,570,011	98.4%	41,000	1.6%	2,611,011
January 2003	3,005,215	92.6%	239,215	7.4%	3,185,015	98.2%	59,415	1.8%	3,244,430
July 2003	3,605,262	90.8%	366,020	9.2%	3,884,020	97.8%	87,262	2.2%	3,971,282
January 2004	4,105,171	88.0%	562,286	12.0%	4,498,086	96.4%	169,371	3.6%	4,667,457
July 2004	4,704,906	86.9%	710,341	13.1%	5,286,141	97.6%	129,106	2.4%	5,415,247
January 2005	5,554,376	80.4%	1,350,783	19.6%	6,709,683	97.2%	195,476	2.8%	6,905,159
July 2005	6,043,828	71.6%	2,391,541	28.4%	8,138,941	96.5%	296,428	3.5%	8,435,369
January 2006	6,347,000	60.1%	4,211,100	39.9%	10,207,500	96.7%	350,600	3.3%	10,558,100
July 2006	6,456,300	51.2%	6,152,100	48.8%	12,128,500	96.2%	479,900	3.8%	12,608,400
January 2007	7,159,300	48.0%	7,742,900	52.0%	14,290,000	95.9%	612,200	4.1%	14,902,200
July 2007	8,067,103	46.4%	9,334,400	53.6%	16,476,000	94.7%	925,503	5.3%	17,401,503
January 2008	9,021,500	46.1%	10,557,500	53.9%	18,548,000	94.7%	1,031,000	5.3%	19,579,000
July 2008	9,954,300	46.0%	11,664,000	54.0%	20,226,000	93.6%	1,392,300	6.4%	21,618,300

BB lines Mkt share (Germany / July 2008)

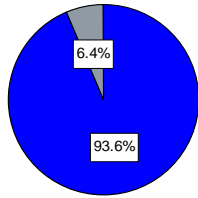


■ Incumbents ■ N.E.

Broadband lines by operator (Germany)

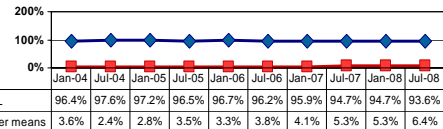


BB lines by technology (Germany / July 2008)

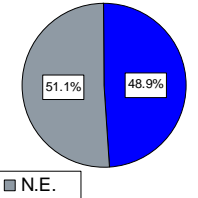


■ DSL ■ Other

Broadband lines by technology (Germany)

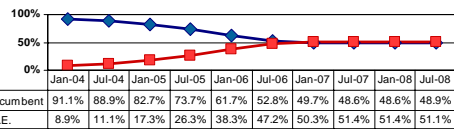


DSL lines Mkt share (Germany / July 2008)

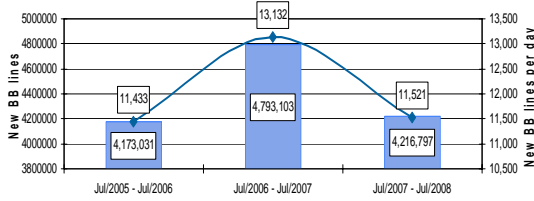


■ Incumbents ■ N.E.

DSL lines by operator (Germany)

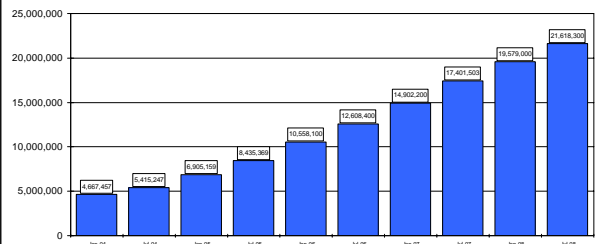


New broadband lines per year (Germany)



■ Total new BB lines ■ New BB lines per day

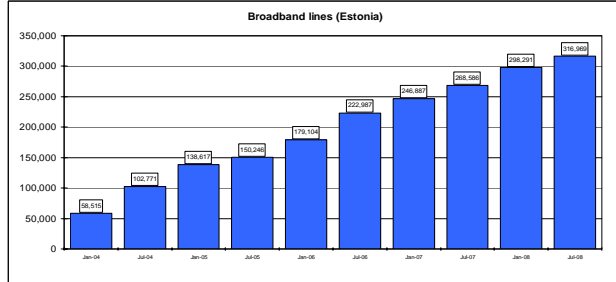
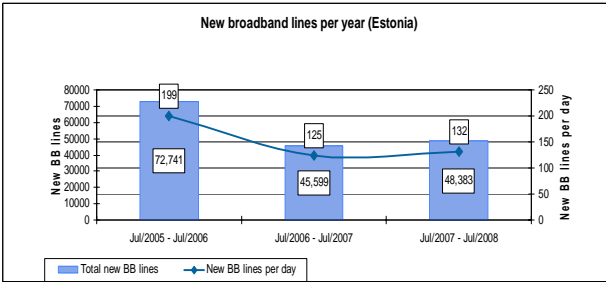
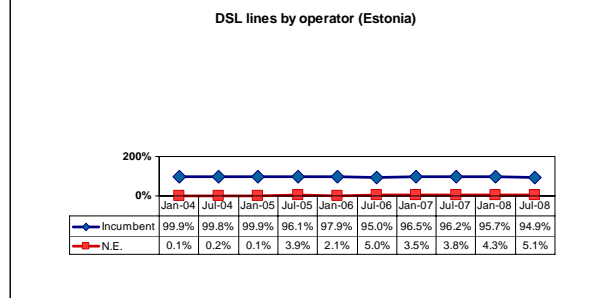
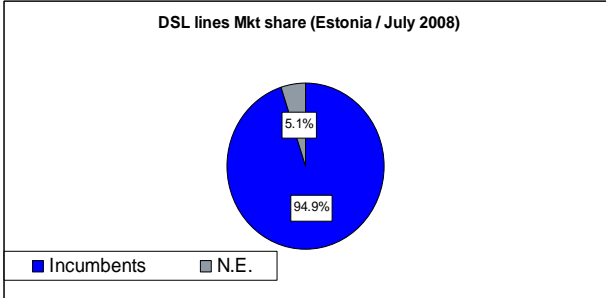
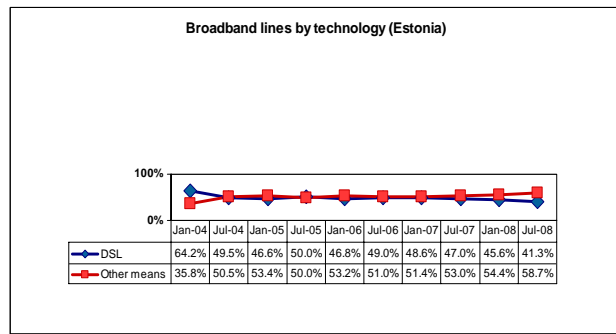
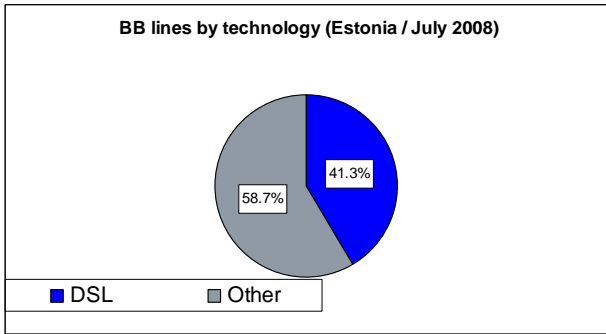
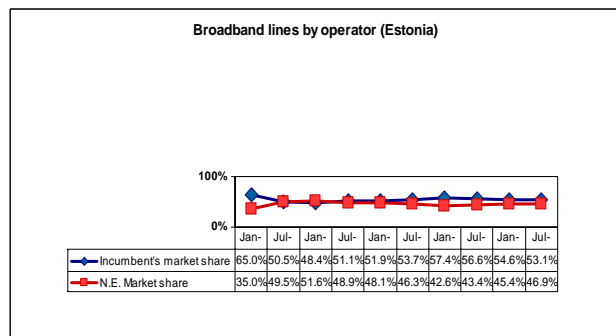
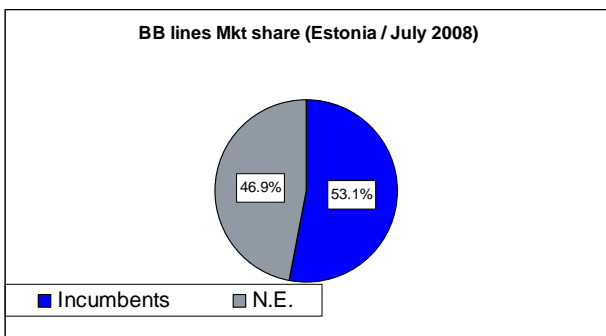
Broadband lines (Germany)



Retail fixed broadband access in Estonia, July 2008

	New entrants' DSL lines on PSTN					Incumbents' access lines by other means										New entrants' access lines by other means									
	Incumbents' DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2003	37,537	0	0	0	0	21	21	300	0	0	180	0	0	0	0	480	852	18,798	0	827	0	0	0	0	20,477
January 2004	37,537	0	0	0	0	21	21	300	0	0	180	0	0	0	0	480	852	18,798	0	827	0	0	0	0	20,477
July 2004	50,780	0	51	0	0	75	126	833	0	191	322	0	0	0	1,096	1,735	36,858	0	2,207	0	0	0	0	50,780	
January 2005	64,542	0	61	0	0	25	86	720	0	150	1,664	0	0	0	2,534	2,346	43,232	0	8,019	0	0	0	0	71,455	
July 2005	72,216	0	2,854	0	0	63	2,917	879	0	3,508	0	0	115	0	4,502	1,515	41,324	0	14,198	0	0	0	0	70,611	
January 2006	82,135	0	1,685	0	0	60	1,745	1,113	0	3,700	0	0	83	0	10,896	3,460	49,480	863	19,669	0	0	0	0	84,238	
July 2006	103,649	3,358	2,100	0	0	50	5,508	1,256	0	13,880	0	0	1,256	107	16,192	6,293	53,088	0	22,030	0	0	0	0	126,417	
January 2007	115,930	1,066	3,074	0	0	40	4,180	3,100	0	22,507	0	0	163	130	25,770	6,152	59,183	0	18,376	0	0	0	0	144,307	
July 2007	121,588	1,711	2,998	0	0	40	4,739	4,952	0	25,018	0	0	428	150	30,398	7,890	63,915	0	22,717	0	0	0	0	164,501	
January 2008	130,044	2,330	3,500	0	0	40	5,870	5,361	0	27,252	0	0	422	150	32,036	20,126	66,754	0	25,619	0	0	0	0	182,441	
July 2008	124,276	1,590	5,029	0	0	40	6,659	5,601	0	37,928	0	0	509	160	44,038	25,881	74,532	0	28,465	0	0	0	0	212,244	

	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share- DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2003	38,017	65.0%	20,498	35.0%	37,558	64.2%	20,957	35.8%	58,515
January 2004	38,017	65.0%	20,498	35.0%	37,558	64.2%	20,957	35.8%	58,515
July 2004	51,876	50.5%	50,895	49.5%	50,906	49.5%	51,865	50.5%	102,771
January 2005	67,076	48.4%	71,541	51.6%	64,628	46.6%	73,399	53.4%	138,617
July 2005	76,718	51.1%	73,528	48.9%	75,133	50.0%	75,113	50.0%	150,246
January 2006	93,031	51.9%	86,073	48.1%	83,880	46.8%	95,224	53.2%	179,104
July 2006	119,841	53.7%	103,146	46.3%	109,157	49.0%	113,830	51.0%	222,987
January 2007	141,700	57.4%	105,187	42.6%	120,110	48.6%	126,777	51.4%	268,887
July 2007	151,986	56.6%	116,600	43.4%	126,327	47.0%	142,259	53.0%	268,586
January 2008	162,980	54.6%	135,311	45.4%	135,914	45.6%	162,377	54.4%	298,291
July 2008	168,314	53.1%	148,655	46.9%	130,935	41.3%	186,034	58.7%	316,969

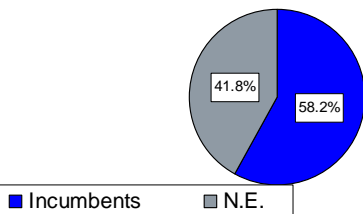


Retail fixed broadband access in Greece, July 2008

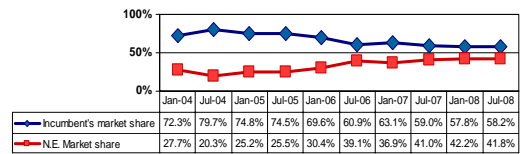
	New entrants' DSL lines on PSTN							Incumbents' access lines by other means										New entrants' access lines by other means							
	Incumbent's DSL lines	Own network	Full LLL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	0	0	93	0	0	0	93	0	0	0	0	0	0	0	0	0	60	0	307	0	0	0	0	0	367
January 2003	0	0	93	0	0	0	93	0	0	330	0	0	0	0	0	330	201	0	1,230	0	0	0	0	2	1,433
July 2003	0	0	359	0	0	0	359	0	0	386	0	0	0	0	0	386	238	0	1,200	0	0	0	0	2	1,410
January 2004	7,159	0	650	5	774	0	1,429	0	0	423	0	0	0	0	0	423	121	5	1,337	0	0	0	0	9	1,472
July 2004	19,791	0	932	160	2,054	0	3,146	0	0	453	0	0	0	0	0	453	180	0	1,815	0	0	0	0	1	1,996
January 2005	38,057	0	1,727	929	5,175	0	8,490	0	0	447	0	0	0	0	0	447	221	0	4,232	0	0	0	0	8	4,461
July 2005	69,136	0	3,823	1,405	17,505	0	22,733	0	0	627	0	0	0	0	0	627	297	0	564	226	0	0	0	0	1,087
January 2006	110,670	0	5,018	1,866	40,439	0	47,323	0	0	760	0	0	0	0	0	760	419	0	721	220	0	0	0	0	1,360
July 2006	173,829	0	6,836	4,144	103,217	0	114,937	0	0	871	0	300	0	0	0	1,171	451	0	1,021	421	0	0	0	0	1,893
January 2007	306,402	0	12,176	7,328	158,415	0	177,919	0	0	1,064	0	350	0	0	14	1,414	643	0	1,036	475	0	0	0	0	2,154
July 2007	447,394	0	80,056	15,322	214,240	0	309,618	0	0	1,149	0	350	0	0	14	1,499	1,029	0	772	546	0	0	0	0	2,347
January 2008	586,308	0	161,855	41,509	223,122	0	426,496	0	0	1,355	0	350	0	0	14	1,705	1,231	0	1,141	594	0	0	0	0	2,969
July 2008	722,693	0	302,917	53,440	161,098	0	517,455	0	0	1,507	0	350	0	0	0	1,857	1,304	0	1,325	1,340	0	0	0	0	3,969

	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	0.0%	460	100.0%	93	20.2%	367	79.8%	460
January 2003	330	17.8%	1,526	82.2%	93	5.0%	1,763	95.0%	1,856
July 2003	386	17.9%	1,769	82.1%	359	16.7%	1,798	83.3%	2,157
January 2004	7,852	72.3%	2,901	27.7%	8,588	81.9%	1,895	18.1%	10,483
July 2004	20,244	79.7%	5,142	20.3%	22,937	90.4%	2,449	9.6%	25,386
January 2005	38,504	74.8%	12,951	25.2%	46,547	90.5%	4,908	9.5%	51,455
July 2005	69,763	74.5%	23,820	25.5%	91,869	98.2%	1,714	1.8%	93,583
January 2006	111,430	69.6%	48,683	30.4%	157,993	98.7%	2,120	1.3%	160,113
July 2006	181,000	60.9%	116,090	39.1%	294,026	99.0%	3,064	1.0%	297,090
January 2007	307,316	63.1%	180,073	36.9%	484,321	99.3%	3,568	0.7%	487,889
July 2007	448,893	59.0%	311,965	41.0%	757,012	99.5%	3,846	0.5%	760,858
January 2008	588,013	57.8%	429,462	42.2%	1,012,804	99.5%	4,671	0.5%	1,017,475
July 2008	724,550	58.2%	521,424	41.8%	1,240,148	99.5%	5,826	0.5%	1,245,974

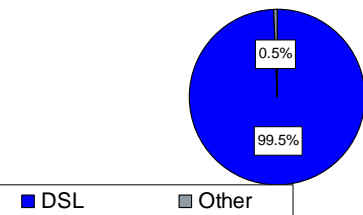
BB lines Mkt share (Greece / July 2008)



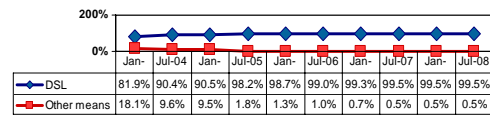
Broadband lines by operator (Greece)



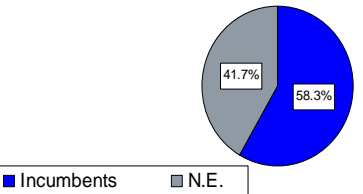
BB lines by technology (Greece / July 2008)



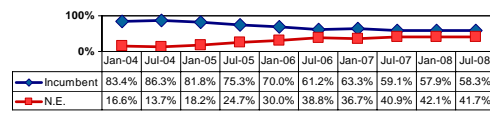
Broadband lines by technology (Greece)



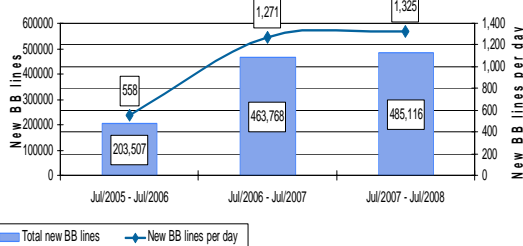
DSL lines Mkt share (Greece / July 2008)



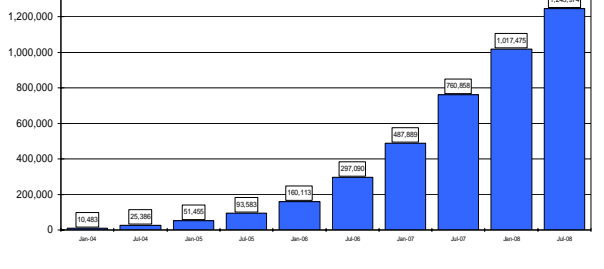
DSL lines by operator (Greece)



New broadband lines per year (Greece)



Broadband lines (Greece)

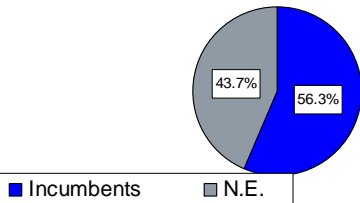


Retail fixed broadband access in Spain, July 2008

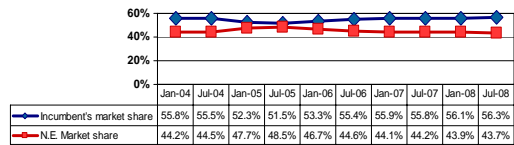
	New entrants' DSL lines on PSTN					Incumbents' access lines by other means							New entrants' access lines by other means													
	Incumbents' DSL lines	Own network	Full ULL	Shared access	Stream access	Rosae	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	
July 2002	500,143	0	0	0	143,482	0	143,482	0	0	0	0	0	0	0	0	0	427	170,285	0	0	0	0	0	0	170,712	
January 2003	734,087	0	0	0	223,117	n.a.	223,117	0	0	0	0	0	0	0	0	0	56,076	273,614	5,352	0	0	0	0	0	12,524	
July 2003	985,053	0	3,996	0	368,514	0	372,510	0	0	0	0	0	0	0	0	0	56,145	404,473	5,361	0	0	0	0	0	12,736	
January 2004	1,243,594	0	16,011	5	416,656	0	432,672	54	0	0	0	755	0	0	0	0	809	5,104	539,754	5,062	881	2	0	0	559,894	
July 2004	1,535,179	0	40,302	2,142	508,549	0	550,993	214	0	0	0	755	0	0	0	0	969	6,979	660,881	7,979	1,367	224	1,888	1,168	680,486	
January 2005	1,894,085	0	77,418	36,536	686,028	0	799,962	350	0	0	0	2,581	0	0	0	0	2,931	8,903	817,737	11,076	1,818	1,764	3,055	1,555	845,708	
July 2005	2,184,805	0	121,842	175,119	750,847	0	1,047,808	684	0	0	0	3,127	0	0	0	0	3,811	9,243	935,989	12,474	1,832	2,069	4,491	1,891	987,526	
January 2006	2,671,639	0	155,731	279,029	809,036	0	1,243,796	1,549	0	0	0	4,023	0	0	0	0	5,572	11,003	1,052,996	32,659	3,095	1,047	3,143	1,983	1,105,926	
July 2006	3,198,979	0	292,262	386,034	436,584	247,848	1,362,728	0	0	0	0	3,683	0	0	0	0	2,002	3,683	31,468	1,163,058	12,515	4,536	1,168	4,118	2,609	451,219,472
January 2007	3,717,667	6,207	411,286	527,723	404,214	195,501	1,544,850	0	0	0	0	4,290	0	0	0	0	2,181	4,290	10,659	1,350,101	15,023	2,681	1,989	3,169	2,137	351,388,756
July 2007	4,171,364	0	505,249	664,460	373,712	156,734	1,700,155	0	0	0	0	4,922	0	0	0	0	4,922	12,246	1,562,514	17,743	5,336	843	1,600	3,619	1,603,901	
January 2008	4,540,741	0	588,285	785,663	372,930	126,333	1,853,211	0	0	0	0	22,769	9,753	0	0	0	32,516	51,907	1,633,499	36,188	5,294	747	0	927	1,728,553	
July 2008	4,952,301	0	680,868	852,369	385,501	101,738	2,000,476	1,440	0	0	0	23,577	4,945	0	0	0	28,522	62,311	1,735,146	36,435	2,483	856	0	3,537	1,840,776	

	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	500,143	61.4%	314,194	38.6%	643,625	79.0%	170,712	21.0%	814,337
January 2003	734,087	58.3%	570,683	43.7%	957,204	73.4%	347,566	26.6%	1,304,770
July 2003	985,053	55.5%	791,365	44.5%	1,297,563	73.0%	478,855	27.0%	1,776,418
January 2004	1,244,403	55.8%	983,766	44.2%	1,676,466	75.2%	551,703	24.8%	2,228,169
July 2004	1,535,148	55.5%	1,231,479	44.5%	2,086,172	75.4%	681,455	24.6%	2,767,627
January 2005	1,897,016	52.3%	1,645,690	47.7%	2,604,067	75.4%	848,639	24.6%	3,452,706
July 2005	2,184,805	51.5%	2,055,534	48.5%	3,268,602	77.1%	971,737	22.9%	4,240,339
January 2006	2,677,211	53.3%	2,349,722	46.7%	3,915,435	77.9%	1,111,498	22.1%	5,026,933
July 2006	3,202,662	55.4%	2,582,200	44.6%	4,561,707	78.9%	1,223,155	21.1%	5,784,862
January 2007	3,721,957	55.9%	2,930,708	44.1%	5,262,617	79.1%	1,390,048	20.9%	6,652,665
July 2007	4,176,286	55.8%	3,304,056	44.2%	5,871,519	78.5%	1,608,823	21.5%	7,480,342
January 2008	4,573,257	56.1%	3,581,764	43.9%	6,393,952	78.4%	1,761,069	21.6%	8,155,021
July 2008	4,952,263	56.3%	3,841,254	43.7%	6,922,777	78.7%	1,870,740	21.3%	8,793,517

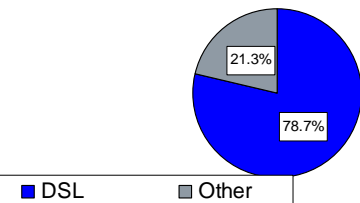
BB lines Mkt share (Spain / July 2008)



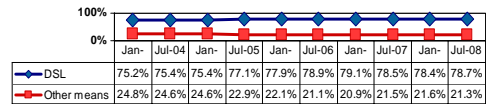
Broadband lines by operator (Spain)



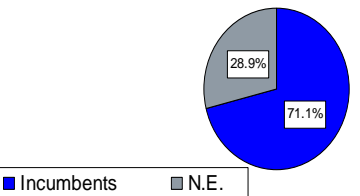
BB lines by technology (Spain / July 2008)



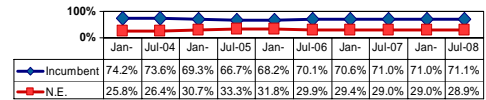
Broadband lines by technology (Spain)



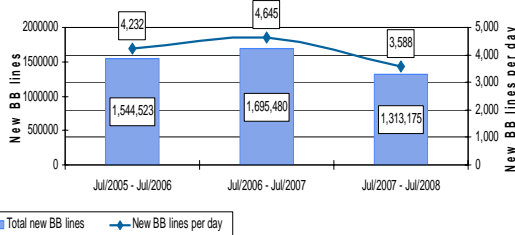
DSL lines Mkt share (Spain / July 2008)



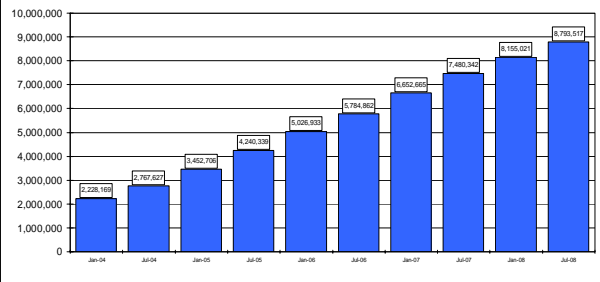
DSL lines by operator (Spain)



New broadband lines per year (Spain)



Broadband lines (Spain)

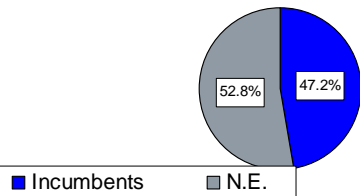


Retail fixed broadband access in France, July 2008

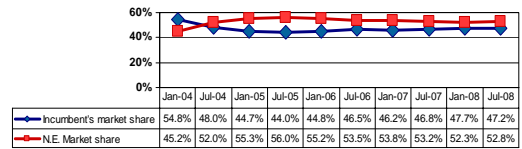
	New entrants' DSL lines on PSTN							Incumbents' access lines by other means										New entrants' access lines by other means							
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	482,000	0	576	0	0	43,837	44,413	0	47,560	0	0	0	0	0	0	47,560	870	161,191	0	0	0	0	0	0	161,971
January 2003	587,000	0	1,358	5,411	0	413,000	419,769	0	50,946	0	0	0	0	0	0	50,946	1,000	197,573	0	0	0	0	0	0	198,573
July 2003	1,320,000	0	2,659	60,274	0	717,000	779,933	0	66,704	0	0	0	0	0	0	66,704	1,000	246,003	0	0	0	0	0	0	247,003
January 2004	1,921,500	0	3,900	272,900	159,600	905,000	1,341,300	0	81,359	0	0	0	0	0	0	81,359	0	312,495	0	0	0	0	0	0	312,495
July 2004	2,270,407	0	13,086	717,654	854,205	635,155	2,220,080	0	87,793	0	0	0	0	0	0	87,793	0	337,207	0	0	0	0	0	0	337,207
January 2005	2,933,308	0	96,190	1,495,517	1,634,243	134,991	3,359,941	0	100,000	0	0	0	0	0	0	100,000	0	400,000	0	0	0	0	0	0	400,000
July 2005	3,661,192	0	295,584	2,073,842	1,676,659	135,065	4,141,250	0	0	0	0	0	0	0	0	0	0	520,000	0	0	0	0	0	0	520,000
January 2006	4,456,335	0	597,857	2,226,031	1,938,928	167,210	4,934,026	0	0	0	0	0	0	0	0	0	0	560,000	0	0	0	0	0	0	560,000
July 2006	5,248,636	0	1,242,964	2,108,135	1,672,096	425,712	5,448,907	0	0	0	0	0	0	0	0	0	0	600,000	0	0	0	0	0	0	600,000
January 2007	5,915,694	0	2,109,267	1,810,058	1,998,528	322,617	6,240,470	0	0	0	0	0	0	0	0	0	0	660,000	0	0	0	0	0	0	660,000
July 2007	6,608,116	0	2,884,953	1,662,300	2,042,967	216,847	6,809,120	0	0	0	0	0	0	0	0	0	0	700,000	0	0	0	0	0	0	700,000
January 2008	7,490,000	0	3,624,000	1,563,000	2,214,000	86,000	7,487,000	0	0	0	0	0	0	0	0	0	0	710,000	0	0	0	0	0	0	710,000
July 2008	7,840,148	0	4,267,736	1,451,089	2,211,452	96,996	8,027,313	0	0	0	0	0	0	0	0	0	0	750,000	0	0	0	0	0	0	750,000

	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	529,560	72.0%	206,384	28.0%	526,413	71.5%	209,531	28.5%	735,944
January 2003	1,037,945	62.7%	618,342	37.3%	1,406,769	84.9%	249,519	15.1%	1,656,288
July 2003	1,386,704	57.5%	1,026,936	42.5%	2,099,933	87.0%	313,707	13.0%	2,413,640
January 2004	2,002,859	54.8%	1,653,795	45.2%	3,262,800	89.2%	393,854	10.8%	3,656,654
July 2004	2,358,200	48.0%	2,557,287	52.0%	4,490,487	91.4%	425,000	8.6%	4,915,487
January 2005	3,033,308	44.7%	3,759,941	55.3%	6,293,249	92.6%	500,000	7.4%	6,793,249
July 2005	3,661,192	44.0%	4,661,250	56.0%	7,802,442	93.8%	520,000	6.2%	8,322,442
January 2006	4,456,535	44.8%	5,494,026	55.2%	9,390,561	94.4%	560,000	5.6%	9,950,561
July 2006	5,248,636	46.5%	6,048,907	53.5%	10,697,543	94.7%	600,000	5.3%	11,297,543
January 2007	5,915,694	46.2%	6,900,470	53.8%	12,156,164	94.9%	660,000	5.1%	12,816,164
July 2007	6,608,116	46.8%	7,509,120	53.2%	13,417,236	95.0%	700,000	5.0%	14,117,236
January 2008	7,490,000	47.7%	8,197,000	52.3%	14,977,000	95.5%	710,000	4.5%	15,687,000
July 2008	7,840,148	47.2%	8,777,313	52.8%	15,867,461	95.5%	750,000	4.5%	16,617,461

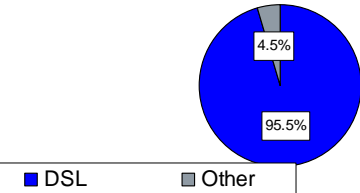
BB lines Mkt share (France / July 2008)



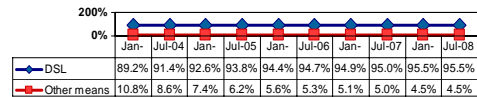
Broadband lines by operator (France)



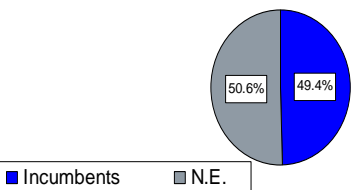
BB lines by technology (France / July 2008)



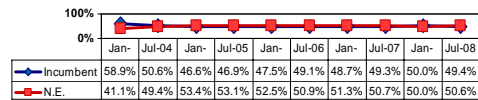
Broadband lines by technology (France)



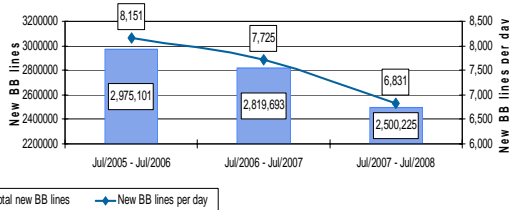
DSL lines Mkt share (France / July 2008)



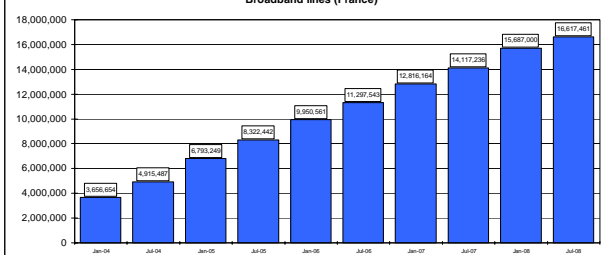
DSL lines by operator (France)



New broadband lines per year (France)



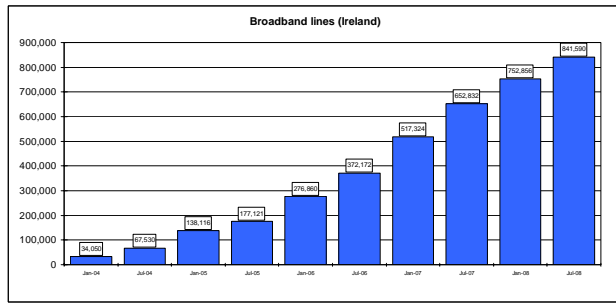
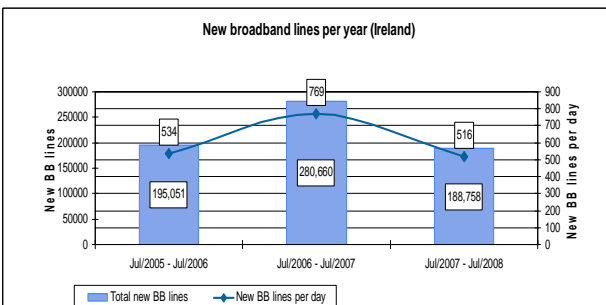
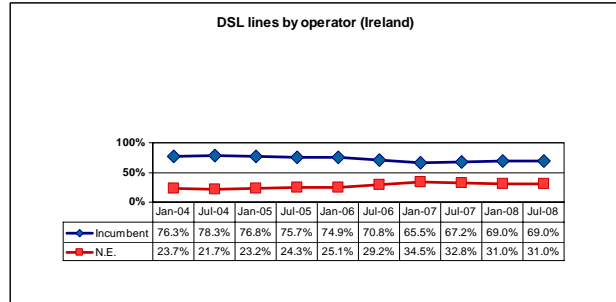
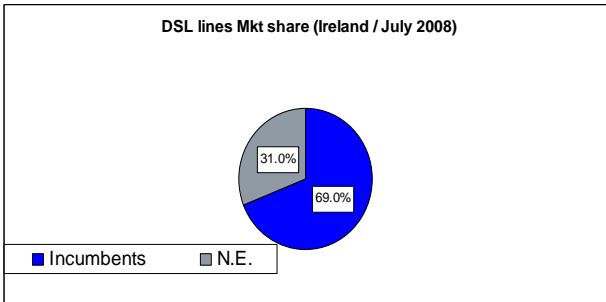
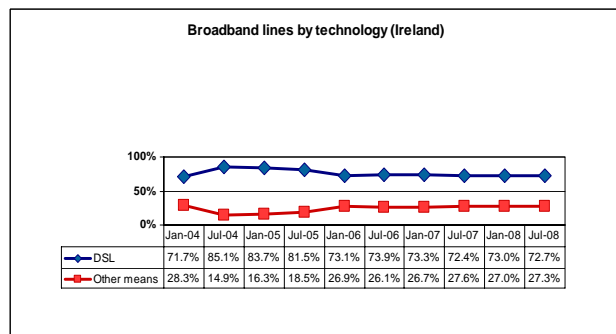
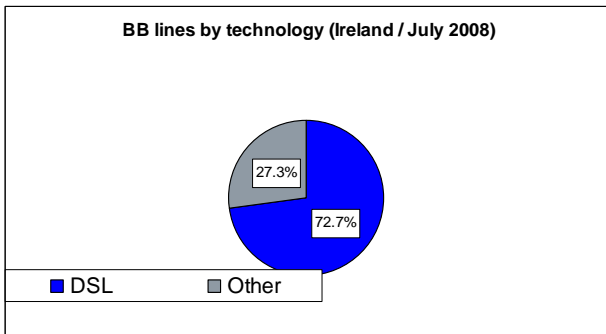
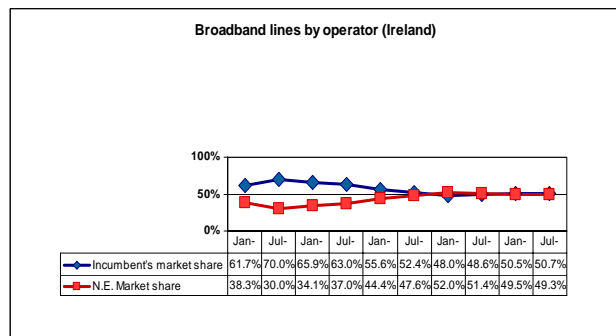
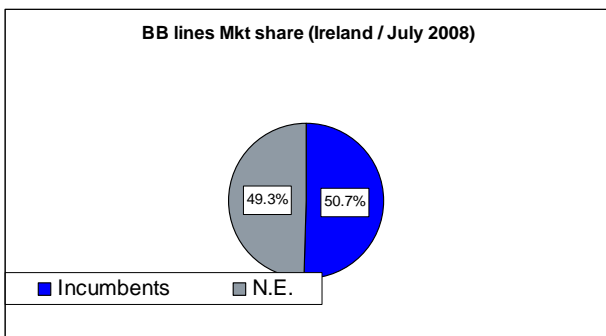
Broadband lines (France)



Retail fixed broadband access in Ireland, July 2008

	New entrants' DSL lines on PSTN							Incumbents' access lines by other means										New entrants' access lines by other means								
	Incumbents' DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	
July 2002	977	0	7	6	0	0	13	1	0	0	0	0	0	0	0	1	69	284	0	0	0	0	0	0	353	
January 2003	2,645	0	190	453	0	0	642	1	0	0	0	0	0	0	0	0	100	4,000	0	0	0	0	0	0	4,100	
July 2003	4,249	0	209	715	196	0	1,120	1	0	0	0	0	0	0	0	0	100	4,000	0	0	0	0	0	0	4,100	
January 2004	18,620	0	280	1,100	4,400	0	5,780	0	0	2,400	0	0	0	0	0	2,400	1,000	4,900	900	200	0	250	0	0	7,250	
July 2004	44,955	0	305	1,195	10,990	0	12,490	0	0	2,300	0	0	0	0	0	2,300	1,400	5,200	965	220	0	0	0	0	7,795	
January 2005	89,772	0	328	1,340	25,143	0	26,811	0	0	2,307	0	0	0	0	0	2,307	11,000	8,045	961	220	0	0	0	0	20,226	
July 2005	109,328	0	1,903	1,424	31,721	0	35,048	0	0	2,249	0	0	0	0	0	2,249	12,500	13,000	4,106	890	0	0	0	0	30,496	
January 2006	151,555	0	3,494	1,484	45,757	0	50,735	0	0	2,340	0	0	0	0	0	2,340	40,000	25,000	3,830	2,950	0	450	0	0	72,230	
July 2006	194,888	0	13,749	1,211	65,324	0	80,294	0	0	0	0	0	0	0	0	0	52,500	39,300	0	4,600	0	0	0	0	87,600	
January 2007	248,403	0	18,488	1,040	111,193	0	130,721	0	0	0	0	0	0	0	0	0	75,200	56,000	0	7,000	0	0	0	0	138,200	
July 2007	317,556	0	17,512	1,092	136,372	0	154,976	0	0	0	0	0	0	0	0	0	102,500	68,900	0	8,900	0	0	0	0	1,214,180,300	
January 2008	379,189	0	16,261	1,657	152,454	0	170,402	295	0	0	0	0	0	0	0	388	681	112,719	82,333	0	3,967	3,566	0	0	0	202,644
July 2008	421,739	0	16,549	3,019	170,287	0	188,955	337	0	4,012	0	263	0	0	0	939	4,612	119,964	91,462	4,988	5,811	3,159	0	0	292,225,384	

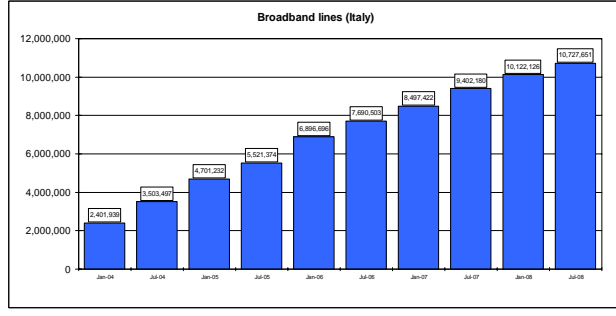
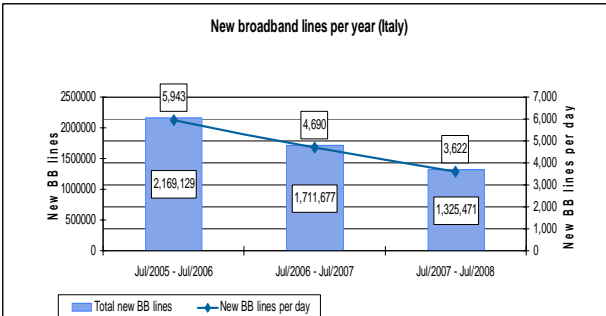
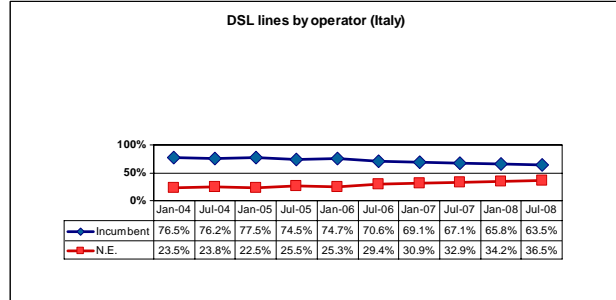
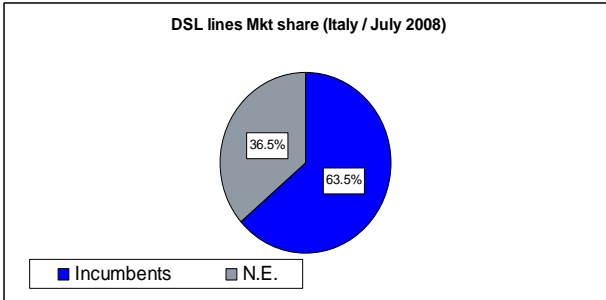
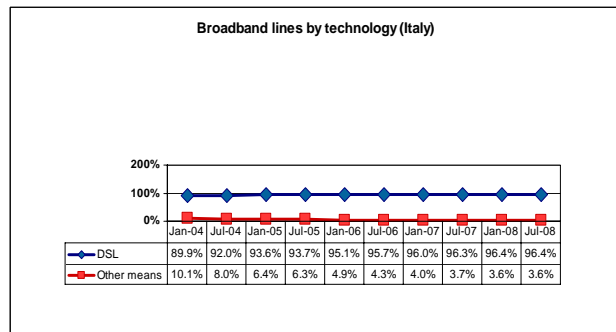
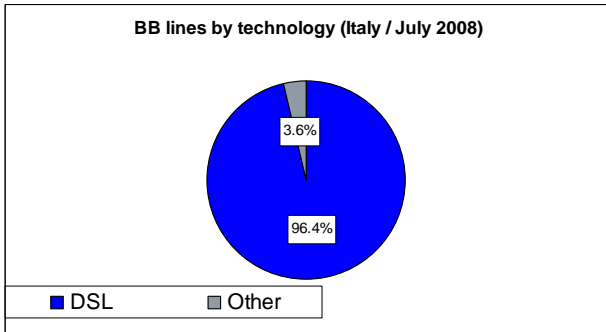
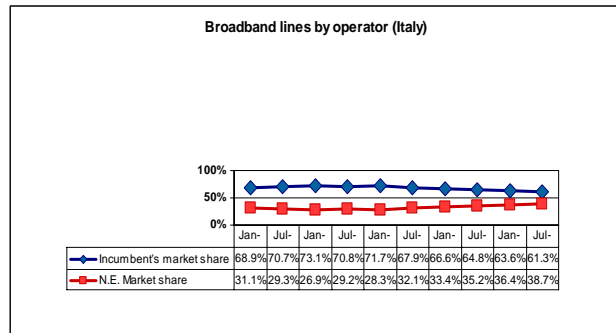
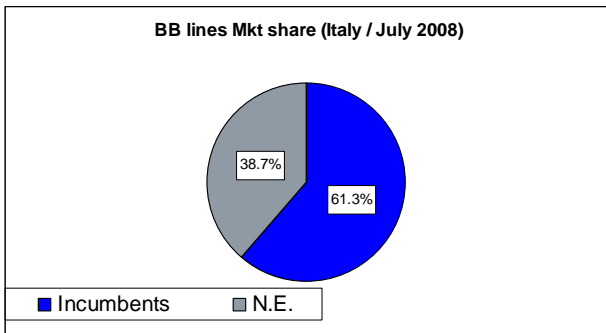
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	978	72.8%	366	27.2%	990	73.7%	354	26.3%	1,344
January 2003	2,645	35.8%	4,742	64.2%	3,287	44.5%	4,100	55.5%	7,387
July 2003	4,249	44.9%	5,220	55.1%	5,369	53.7%	4,100	43.3%	9,469
January 2004	21,020	61.7%	13,030	38.3%	24,400	71.7%	9,650	28.3%	34,050
July 2004	47,255	70.0%	20,275	30.0%	57,445	85.1%	10,085	14.9%	67,530
January 2005	91,079	65.9%	47,037	34.1%	115,583	83.7%	22,533	16.3%	138,116
July 2005	111,577	63.0%	65,544	37.0%	144,376	81.5%	32,745	18.5%	177,121
January 2006	153,995	55.6%	122,965	44.4%	202,290	73.1%	74,570	26.9%	276,860
July 2006	194,888	52.4%	177,284	47.6%	275,172	73.9%	97,000	26.1%	372,172
January 2007	248,403	48.0%	268,921	52.0%	379,124	73.3%	138,200	26.7%	517,324
July 2007	317,556	48.6%	335,276	51.4%	472,532	72.4%	180,300	27.6%	652,832
January 2008	379,189	50.5%	372,986	49.5%	549,591	73.0%	203,265	27.0%	752,856
July 2008	426,351	50.7%	415,239	49.3%	611,594	72.7%	229,996	27.3%	841,590



Retail fixed broadband access in Italy, July 2008

	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means									
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	
July 2002	420,000	0	2,613	0	65,263	0	67,876	0	0	330	0	0	0	0	0	330	4	0	697	18,243	42,566	0	0	0	61,510	
January 2003	530,000	0	65,333	0	140,192	0	205,525	0	0	0	0	0	0	0	0	0	8	0	3,243	41,173	96,070	0	0	0	140,494	
July 2003	1,057,782	0	144,620	0	194,246	1,007	339,876	0	0	293	0	0	0	0	0	293	8	0	3,300	112,888	81,927	0	0	0	198,253	
January 2004	1,651,522	0	210,126	0	296,426	384	506,936	0	0	1,227	243	785	0	0	0	2,255	179	20	3,555	146,835	90,617	0	20	0	241,226	
July 2004	2,455,802	0	291,762	0	474,811	713	767,386	0	0	1,046	44	18,700	0	289	0	20,079	305	20	3,881	171,024	85,000	0	0	0	260,230	
January 2005	3,411,637	0	378,831	29,600	591,525	992	999,948	0	0	951	76	24,925	0	254	0	26,086	433	20	3,946	183,839	84,002	0	11	0	272,551	
July 2005	3,854,408	0	496,654	80,398	742,560	1,250	1,320,862	0	0	767	119	55,594	0	258	0	56,738	640	20	4,036	198,668	86,000	0	2	0	289,366	
January 2006	4,901,000	0	669,706	145,812	838,591	1,539	1,655,648	0	0	505	152	41,426	0	218	0	42,301	831	20	4,067	205,827	87,000	0	2	0	297,747	
July 2006	5,195,000	301	886,682	276,230	1,004,571	572	2,168,356	0	0	437	194	28,211	0	190	780	29,032	1,104	0	0	209,735	83,000	0	4,276	0	143,298,115	
January 2007	5,639,000	349	1,060,170	381,893	1,073,327	772	2,516,511	0	0	392	244	23,191	0	182	1,488	24,009	1,395	20	4,892	228,588	83,000	0	7	500	317,902	
July 2007	6,073,000	415	1,390,497	461,435	1,125,735	951	2,979,033	0	0	334	285	18,136	0	206	1,377	18,961	1,584	20	5,239	247,343	77,000	0	0	623	331,186	
January 2008	6,420,000	526	1,751,327	417,000	1,163,010	2,717	3,334,680	0	0	329	335	13,873	0	219	0	14,756	1,980	0	6,455	287,249	75,000	3	0	0	352,680	
July 2008	6,563,989	784	2,163,337	380,000	1,228,000	2,852	3,774,973	0	0	284	387	9,553	0	298	0	10,460	2,780	0	6,178	293,201	74,005	4	2,051	0	375,219	

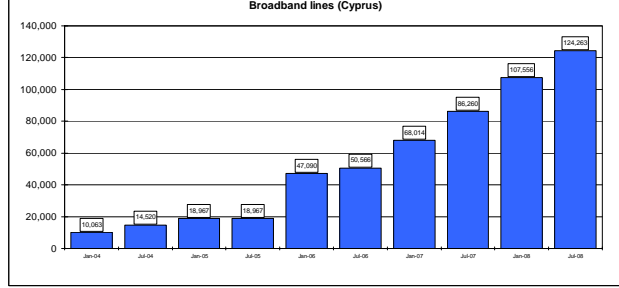
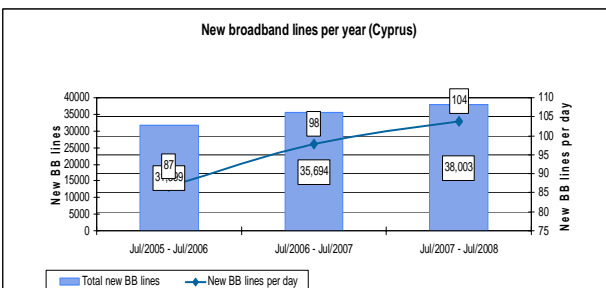
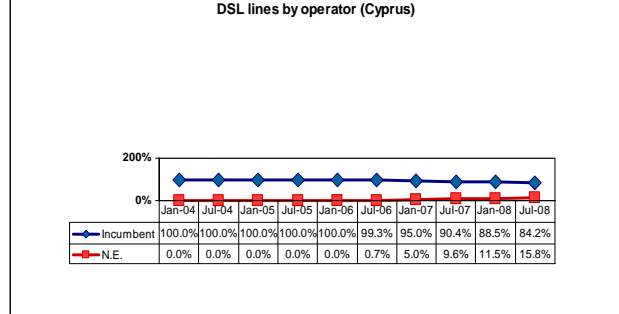
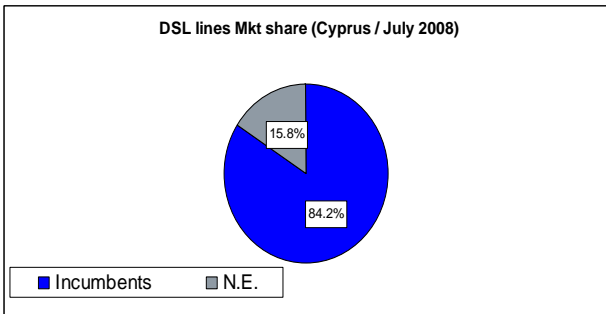
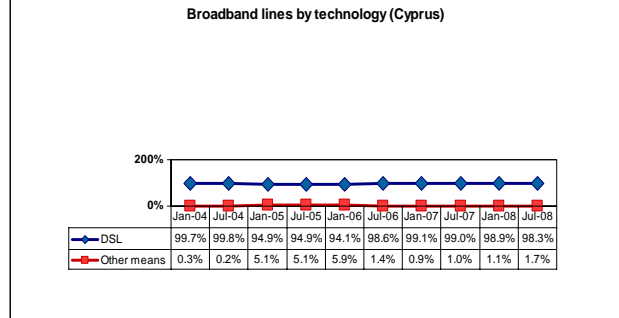
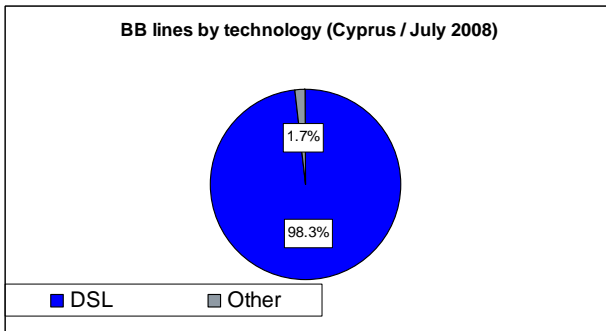
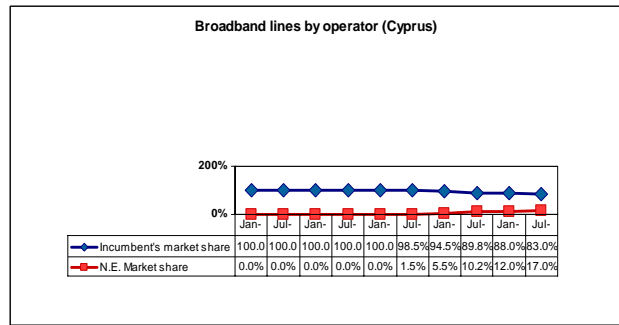
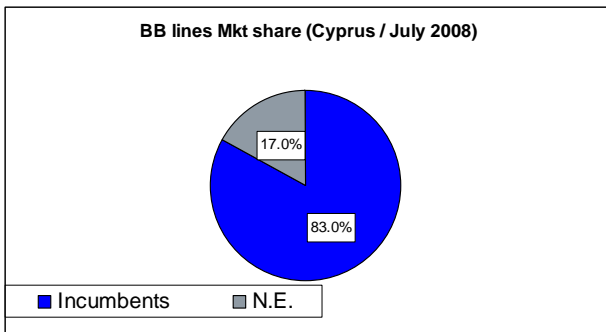
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share- DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	420,330	76.5%	129,386	23.5%	487,876	88.8%	61,840	11.2%	549,716
January 2003	630,000	64.5%	346,019	35.5%	835,525	85.6%	140,494	14.4%	976,019
July 2003	1,058,065	66.7%	529,129	33.3%	1,387,659	87.5%	198,536	12.5%	1,586,194
January 2004	1,653,777	68.9%	748,162	31.1%	2,158,458	89.9%	243,481	10.1%	2,401,939
July 2004	2,475,881	70.7%	1,027,616	29.3%	3,223,188	92.0%	280,309	8.0%	3,503,497
January 2005	3,437,733	73.1%	1,263,499	26.9%	4,402,585	93.6%	298,647	6.4%	4,701,232
July 2005	3,911,146	70.8%	1,610,228	29.2%	5,175,270	93.7%	346,104	6.3%	5,521,374
January 2006	4,943,301	71.7%	1,953,395	28.3%	6,556,648	95.1%	340,048	4.9%	6,896,696
July 2006	5,224,032	67.9%	2,466,471	32.1%	7,363,356	95.7%	327,147	4.3%	7,690,503
January 2007	5,663,009	66.6%	2,834,413	33.4%	8,155,511	96.0%	341,911	4.0%	8,497,422
July 2007	6,091,961	64.8%	3,310,219	35.2%	9,052,033	96.3%	350,147	3.7%	9,402,180
January 2008	6,434,756	63.6%	3,687,370	36.4%	9,754,680	96.4%	367,446	3.6%	10,122,126
July 2008	6,574,459	61.3%	4,153,192	38.7%	10,338,972	96.4%	388,679	3.6%	10,727,651



Retail fixed broadband access in Cyprus, July 2008

	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means									
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
January 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
July 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
January 2004	10,033	0	0	0	0	0	0	0	0	30	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	
July 2004	14,490	0	0	0	0	0	0	0	0	30	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	
January 2005	17,994	0	0	0	0	0	0	0	0	22	0	0	0	0	0	951	0	0	0	0	0	0	0	0	0	
July 2005	17,994	0	0	0	0	0	0	0	0	22	0	0	0	0	0	951	0	0	0	0	0	0	0	0	0	
January 2006	44,322	0	0	0	0	0	0	0	0	2,511	0	0	0	0	0	2,511	0	0	0	0	0	0	0	0	0	
July 2006	49,536	0	335	0	0	0	335	0	0	272	0	0	0	0	16	8	286	0	323	60	0	20	0	2	5	405
January 2007	63,988	0	3,374	16	0	0	3,390	0	0	273	0	0	0	0	22	45	295	0	305	33	0	0	0	3	8	341
July 2007	77,174	0	8,077	114	0	0	8,191	0	0	273	0	0	0	0	39	72	312	0	548	35	0	0	0	3	20	583
January 2008	94,163	10,019	1,957	215	0	0	12,191	0	0	273	128	11	0	39	53	448	0	718	0	0	36	0	0	20	754	
July 2008	102,884	0	18,915	330	0	0	19,245	0	0	273	0	18	0	0	56	291	0	1,837	0	0	61	0	0	20	1,843	

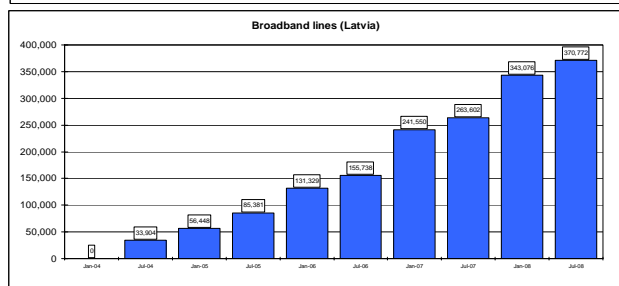
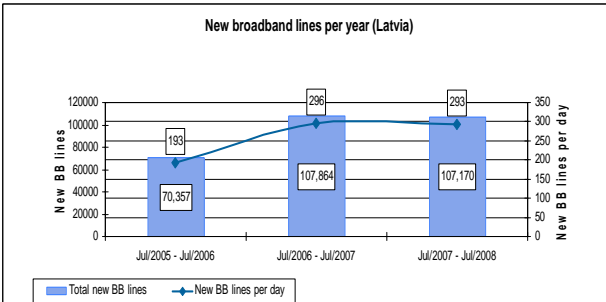
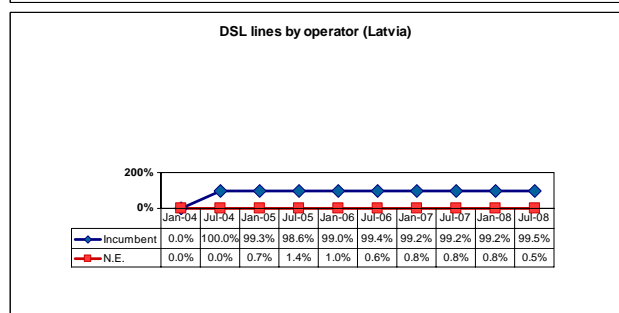
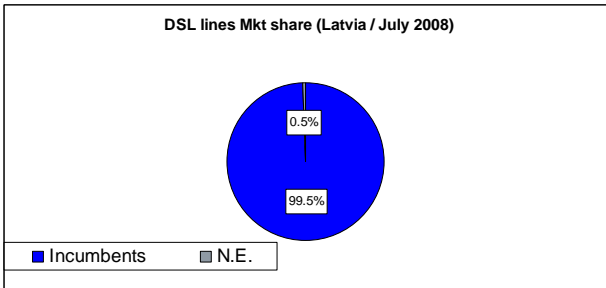
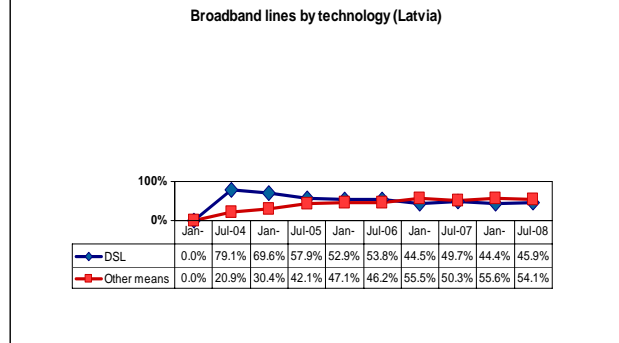
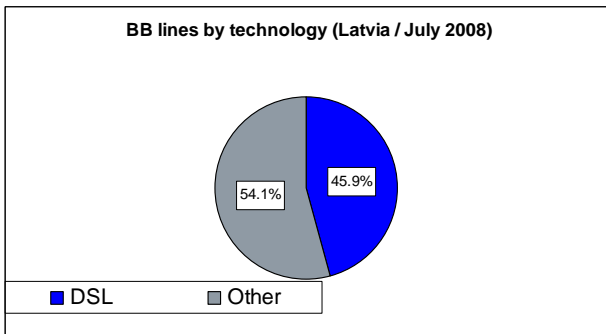
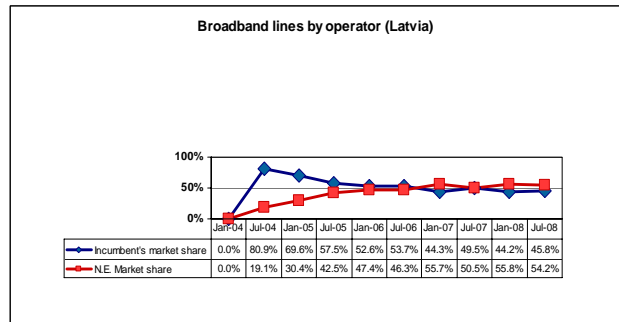
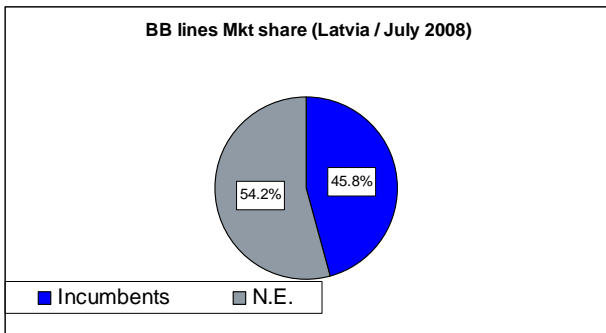
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share- DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2004	10,063	100.0%	0	0.0%	10,033	99.7%	30	0.3%	10,063
July 2004	14,520	100.0%	0	0.0%	14,490	99.8%	30	0.2%	14,520
January 2005	18,967	100.0%	0	0.0%	17,994	94.9%	973	5.1%	18,967
July 2005	18,967	100.0%	0	0.0%	17,994	94.9%	973	5.1%	18,967
January 2006	47,090	100.0%	0	0.0%	44,322	94.1%	2,768	5.9%	47,090
July 2006	49,826	98.5%	740	1.5%	49,873	98.6%	693	1.4%	50,566
January 2007	64,283	94.5%	3,731	5.5%	67,378	99.1%	636	0.9%	68,014
July 2007	77,486	89.8%	8,774	10.2%	85,365	99.0%	895	1.0%	86,260
January 2008	94,611	88.0%	12,945	12.0%	106,354	98.9%	1,202	1.1%	107,556
July 2008	103,175	83.0%	21,088	17.0%	122,129	98.3%	2,134	1.7%	124,263



Retail fixed broadband access in Latvia, July 2008

	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means									
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
January 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
July 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
January 2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
July 2004	26,815	0	0	0	0	0	0	255	357	0	0	0	0	0	0	612	351	1,746	59	32	0	0	4,299	0	6,477	
January 2005	39,995	0	31	7	150	98	296	304	0	0	0	0	0	0	0	304	1,891	7,928	934	497	4	172	5,677	0	16,855	
July 2005	48,749	0	507	1	165	43	716	306	0	0	0	0	0	0	0	306	3,505	12,462	858	524	3	119	18,139	0	36,610	
January 2006	68,771	0	99	1	290	303	693	292	0	0	0	0	0	0	0	292	4,331	16,015	6,990	980	0	44	33,213	0	61,573	
July 2006	83,307	0	106	10	125	259	500	299	0	0	0	0	0	0	0	299	5,530	21,003	4,978	2,804	225	1,208	36,083	0	71,632	
January 2007	106,585	0	212	10	142	524	888	234	0	0	0	0	165	0	0	399	11,398	38,504	18,405	6,813	486	1,236	56,626	0	133,678	
July 2007	130,038	0	300	10	137	539	986	256	0	0	26	0	179	0	0	461	10,034	34,344	19,161	4,180	8	0	64,390	0	132,117	
January 2008	151,076	0	512	14	57	668	1,251	161	0	0	32	0	254	0	0	457	16,798	38,090	15,672	8,742	510	0	110,480	0	199,292	
July 2008	169,387	0	471	11	46	347	875	123	0	0	82	0	304	0	0	509	13,273	35,937	9,399	8,204	463	0	132,715	0	199,991	

	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share- DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2004	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2004	27,427	80.9%	6,477	19.1%	26,815	79.1%	7,089	20.9%	33,904
January 2005	39,299	69.6%	17,149	30.4%	39,281	69.6%	17,167	30.4%	56,448
July 2005	49,055	57.5%	36,326	42.5%	49,465	57.9%	35,916	42.1%	85,381
January 2006	69,063	52.6%	62,266	47.4%	69,464	52.9%	61,865	47.1%	131,329
July 2006	83,606	53.7%	72,132	46.3%	83,807	53.8%	71,931	46.2%	155,738
January 2007	106,984	44.3%	134,566	55.7%	107,473	44.5%	134,077	55.5%	241,550
July 2007	130,499	49.5%	133,103	50.5%	131,024	49.7%	132,578	50.3%	263,602
January 2008	151,533	44.2%	191,543	55.8%	152,327	44.4%	190,749	55.6%	343,076
July 2008	169,906	45.8%	200,866	54.2%	170,272	45.9%	200,500	54.1%	370,772

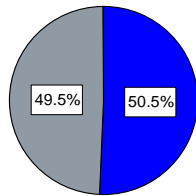


Retail fixed broadband access in Lithuania, July 2008

	New entrants' DSL lines on PSTN							Incumbents' access lines by other means							New entrants' access lines by other means										
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2003	14,289	0	0	0	1,155	0	1,155	0	0	102	0	0	0	0	0	102	4,496	11,141	15	2,620	0	0	0	0	8,700
January 2004	25,085	0	0	0	1,350	0	1,350	0	0	112	0	0	0	0	0	112	4,753	19,983	759	2,927	0	19	0	9,954	38,432
July 2004	31,825	0	0	0	2,249	0	2,249	0	0	125	36	0	0	0	0	161	5,997	23,404	1,384	3,750	1	59	0	19,449	54,044
January 2005	47,465	0	0	0	3,223	0	3,223	0	0	134	39	0	0	0	0	173	9,019	32,227	1,193	5,588	1	43	0	30,121	78,192
July 2005	66,363	0	0	0	2,841	0	2,841	0	0	148	62	0	0	0	0	210	13,346	38,124	1,131	10,114	0	30	0	37,300	100,605
January 2006	102,117	0	0	0	2,681	0	2,681	0	0	163	78	0	0	0	267	241	17,937	49,631	1,256	12,859	1	0	0	47,323	129,007
July 2006	131,408	0	0	0	2,472	0	2,472	0	0	117	50	0	0	0	1,384	477	1,581	21,736	58,119	1,273	15,323	0	0	54,167	150,616
January 2007	176,147	0	0	0	2,156	0	2,156	0	0	102	66	0	0	0	2,472	894	2,638	24,424	65,758	1,451	43,836	0	0	43,164	189,178,623
July 2007	203,959	0	0	0	2,314	0	2,314	2,551	0	91	99	0	0	0	3,824	2,551	6,565	28,639	61,425	1,621	81,518	170	0	45,238	192,218,611
January 2008	223,145	0	0	0	2,363	0	2,363	19,612	0	80	176	0	0	0	5,778	3,152	27,252	31,852	64,950	1,864	62,918	210	0	57,320	275,248,959
July 2008	241,906	0	0	0	2,322	0	2,322	20,229	0	73	13,881	0	0	0	3,761	33,683	34,775	64,626	1,448	119,961	147	0	47,214	279,288,171	

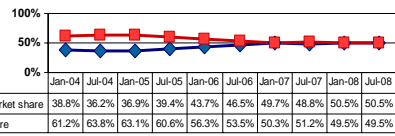
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2003	14,391	33.8%	28,117	66.2%	15,444	36.3%	27,074	63.7%	42,518
January 2004	25,197	38.8%	39,785	61.2%	26,438	40.7%	38,544	59.3%	64,982
July 2004	31,986	36.2%	56,293	63.8%	34,074	38.6%	54,205	61.4%	88,279
January 2005	47,638	36.9%	81,415	63.1%	50,688	39.3%	78,365	60.7%	129,053
July 2005	67,173	39.4%	103,446	60.6%	69,804	40.9%	100,315	59.1%	170,619
January 2006	102,358	43.7%	131,688	56.3%	104,798	44.8%	129,248	55.2%	234,046
July 2006	132,969	46.5%	153,090	53.5%	133,880	46.8%	152,179	53.2%	286,059
January 2007	178,786	49.7%	180,778	50.3%	178,302	49.6%	181,262	50.4%	359,564
July 2007	210,524	48.8%	220,925	51.2%	206,273	47.8%	225,176	52.2%	431,449
January 2008	256,397	50.5%	251,322	49.5%	231,508	45.6%	276,211	54.4%	507,719
July 2008	275,589	50.5%	270,493	49.5%	244,228	44.7%	301,854	55.3%	546,082

BB lines Mkt share (Lithuania / July 2008)

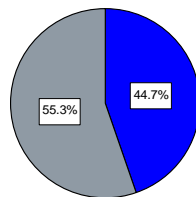


■ Incumbents ■ N.E.

Broadband lines by operator (Lithuania)

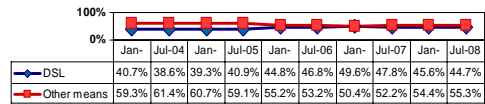


BB lines by technology (Lithuania / July 2008)

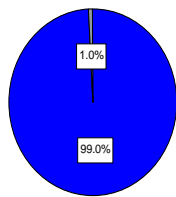


■ DSL ■ Other

Broadband lines by technology (Lithuania)

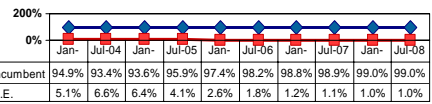


DSL lines Mkt share (Lithuania / July 2008)

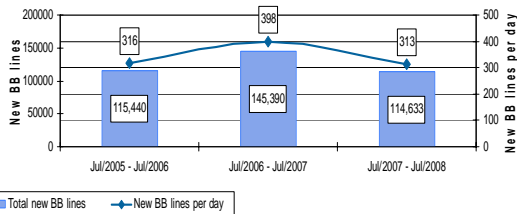


■ Incumbents ■ N.E.

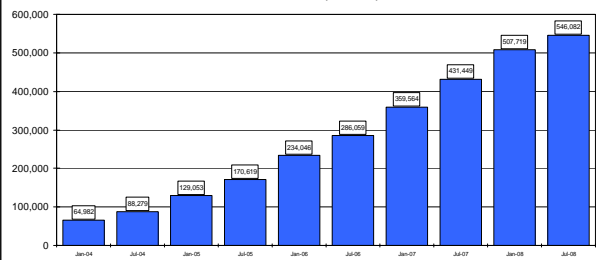
DSL lines by operator (Lithuania)



New broadband lines per year (Lithuania)



Broadband lines (Lithuania)

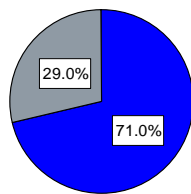


Retail fixed broadband access in Luxembourg, July 2008

	New entrants' DSL lines on PSTN						Incumbents' access lines by other means						New entrants' access lines by other means												
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bidstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2003	6,562	0	296	0	0	0	296	0	96	92	0	0	0	0	0	188	20	276	108	0	0	0	5	0	409
July 2003	8,308	0	652	0	0	0	652	0	188	115	0	0	0	0	0	303	25	883	106	0	0	0	5	0	1,019
January 2004	12,281	0	1,570	0	0	0	1,570	0	251	104	0	0	0	0	0	355	25	1,597	95	0	0	0	0	0	1,717
July 2004	18,101	0	2,376	0	0	0	2,376	373	156	0	0	0	0	0	0	529	25	2,623	10	0	0	0	19	0	2,677
January 2005	27,906	0	1,056	0	0	0	1,056	564	257	0	0	0	0	0	0	841	43	3,497	10	0	0	0	21	0	3,571
July 2005	40,857	0	1,553	59	0	0	1,612	588	170	0	0	0	0	0	0	730	49	5,183	10	0	0	0	21	0	5,283
January 2006	52,402	0	3,088	114	0	0	3,202	658	177	150	0	0	0	0	0	985	69	6,219	10	0	0	0	21	0	6,319
July 2006	57,875	0	4,801	114	0	0	4,915	31	737	178	175	0	0	0	0	1,119	77	6,955	10	53	0	0	21	0	7,116
January 2007	72,170	0	6,534	102	0	0	6,636	754	237	0	0	0	0	0	0	991	98	7,996	10	0	0	0	0	0	8,064
July 2007	81,328	21	8,017	102	0	0	8,140	797	279	208	0	0	0	0	0	1,294	140	8,861	10	0	0	0	0	0	9,011
January 2008	88,225	21	7,280	78	0	0	7,383	808	358	224	0	0	0	0	0	41	1,388	140	10,723	10	70	0	0	0	10,943
July 2008	91,029	21	8,810	78	0	0	8,909	761	384	240	0	0	0	0	0	41	1,385	140	15,192	10	70	0	0	0	15,412

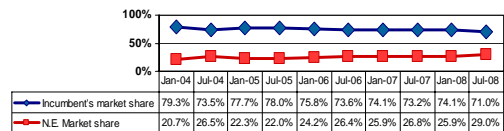
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share- DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	n.a.	0	n.a.	0	0.0%	0	n.a.	0
January 2003	6,750	90.5%	705	9.5%	6,858	92.0%	597	8.0%	7,455
July 2003	8,611	83.7%	1,671	16.3%	8,960	87.1%	1,322	12.9%	10,282
January 2004	12,646	79.3%	3,296	20.7%	13,860	86.9%	2,082	13.1%	15,942
July 2004	18,630	73.5%	6,704	26.5%	22,128	87.3%	3,206	12.7%	25,334
January 2005	28,747	77.7%	8,272	22.3%	32,607	88.1%	4,412	11.9%	37,019
July 2005	41,395	78.0%	11,654	22.0%	47,048	88.7%	6,001	11.3%	53,049
January 2006	53,397	75.8%	17,049	24.2%	63,132	89.6%	7,304	10.4%	70,436
July 2006	58,994	73.6%	21,111	26.4%	71,870	89.7%	8,235	10.3%	80,105
January 2007	73,161	74.1%	25,604	25.9%	89,710	90.8%	9,055	9.2%	98,765
July 2007	82,610	73.2%	30,317	26.8%	105,632	90.9%	10,299	9.1%	112,927
January 2008	89,613	74.1%	31,360	25.9%	108,642	89.8%	12,331	10.2%	120,973
July 2008	92,414	71.0%	37,699	29.0%	113,316	87.1%	16,797	12.9%	130,113

BB lines Mkt share (Luxembourg / July 2008)

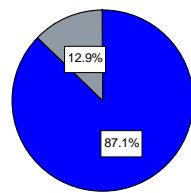


■ Incumbents ■ N.E.

Broadband lines by operator (Luxembourg)

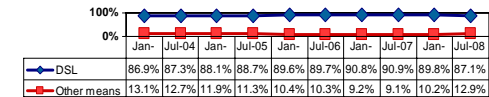


BB lines by technology (Luxembourg / July 2008)

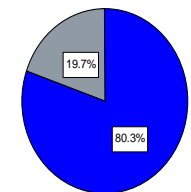


■ DSL ■ Other

Broadband lines by technology (Luxembourg)

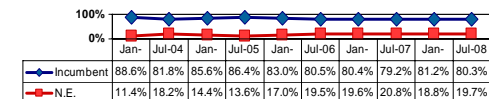


DSL lines Mkt share (Luxembourg / July 2008)

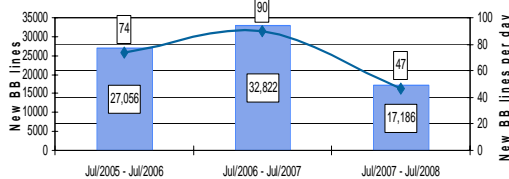


■ Incumbents ■ N.E.

DSL lines by operator (Luxembourg)

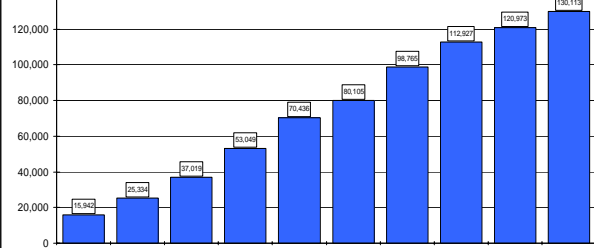


New broadband lines per year (Luxembourg)



■ Total new BB lines ■ New BB lines per day

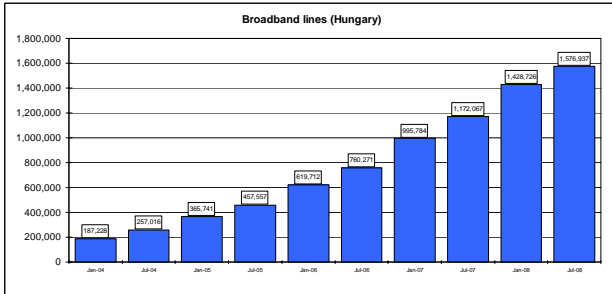
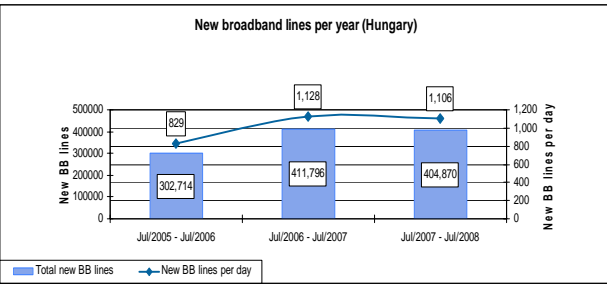
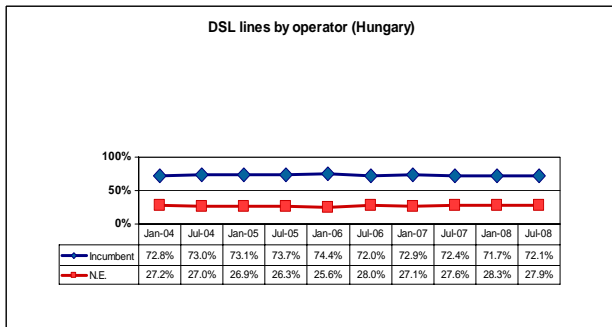
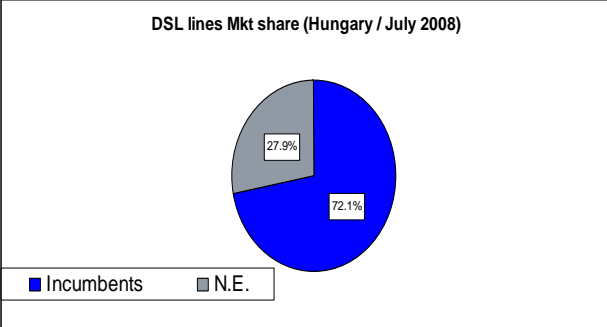
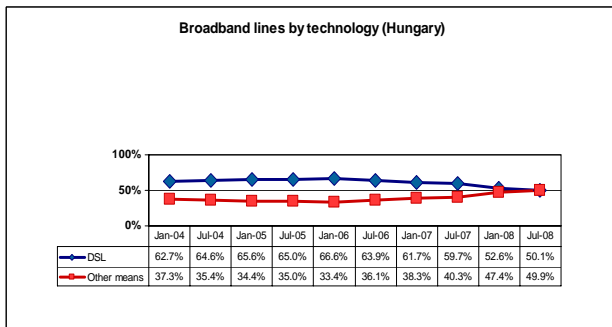
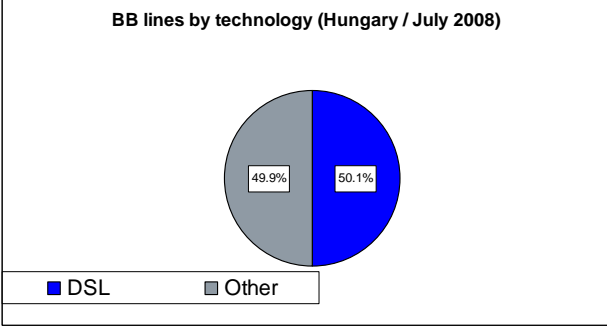
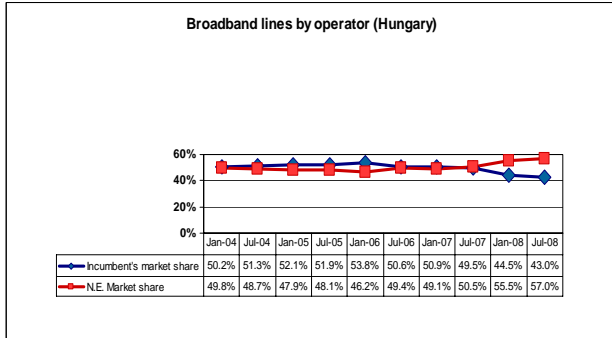
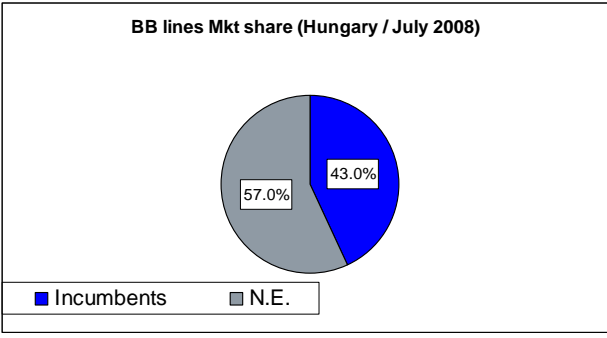
Broadband lines (Luxembourg)



Retail fixed broadband access in Hungary, July 2008

	New entrants' DSL lines on PSTN							Incumbents' access lines by other means							New entrants' access lines by other means										
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2004	85,433	0	0	0	31,936	0	31,936	725	7,886	0	0	0	0	0	0	8,611	4,577	56,671	0	0	0	0	0	0	61,248
July 2004	121,180	0	0	0	44,800	0	44,800	1,000	9,584	0	0	0	0	0	0	10,584	5,700	73,752	0	1,000	0	0	0	0	80,452
January 2005	175,326	0	0	0	64,464	0	64,464	1,200	12,431	1,500	0	0	0	0	0	15,131	7,300	99,000	3,500	1,000	0	0	0	0	110,930
July 2005	219,148	0	0	1	78,088	0	78,088	1,200	15,820	1,500	0	0	0	0	0	18,520	7,300	130,000	3,500	1,000	0	0	0	0	141,800
January 2006	307,325	0	0	26	105,535	0	105,561	1,400	23,126	1,500	0	0	0	0	0	26,026	8,800	167,500	3,500	1,000	0	0	0	0	180,800
July 2006	390,065	0	61	1,506	139,249	0	139,816	1,550	31,893	1,500	0	0	0	0	0	34,713	9,700	225,477	3,500	1,000	0	0	0	0	239,874
January 2007	448,417	0	1,354	3,070	162,053	0	166,477	5,500	51,233	1,500	0	0	0	0	0	58,233	33,900	284,257	3,500	1,000	0	0	0	0	322,657
July 2007	506,481	0	5,400	3,708	183,566	0	192,674	7,100	65,597	1,500	0	0	0	0	0	74,197	42,500	351,715	3,500	1,000	0	0	0	0	398,715
January 2008	539,140	0	9,019	4,161	199,536	0	212,725	16,218	79,923	1,215	0	0	0	0	0	97,356	80,898	494,764	2,827	1,000	0	0	0	0	579,510
July 2008	568,936	0	11,597	4,800	204,280	0	220,677	17,840	89,728	1,200	0	0	0	0	0	108,768	107,091	567,941	2,524	1,000	0	0	0	0	678,556

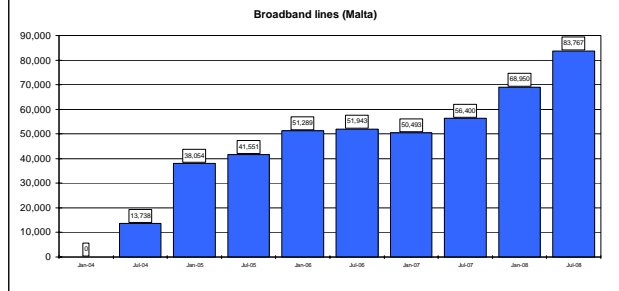
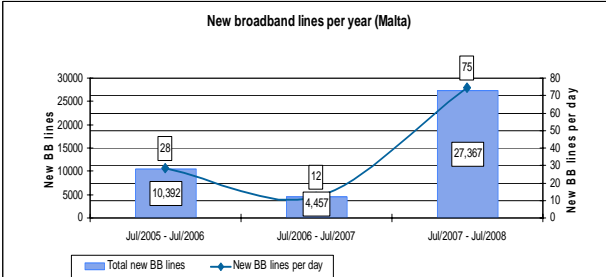
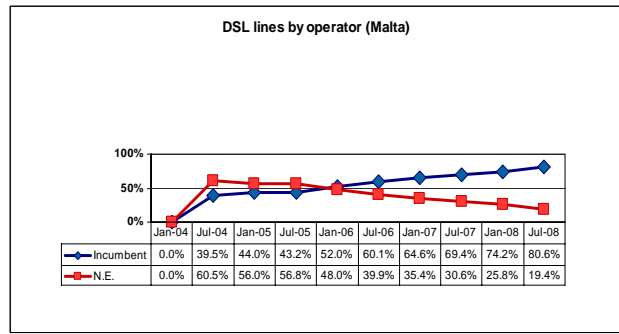
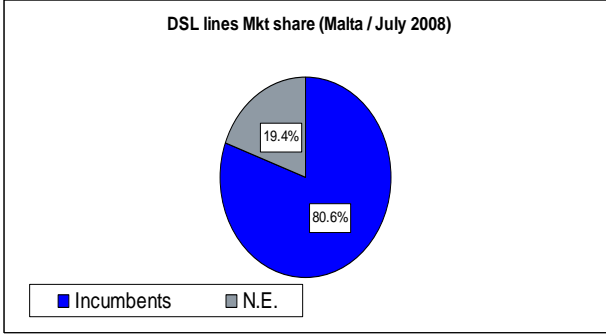
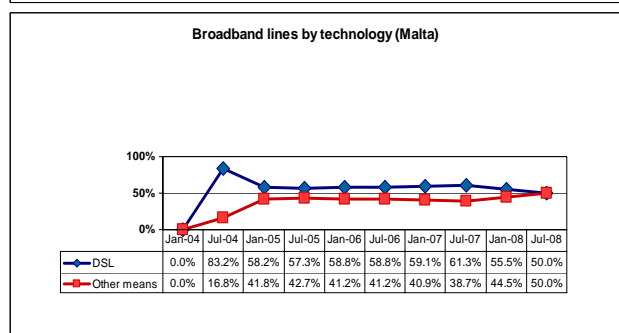
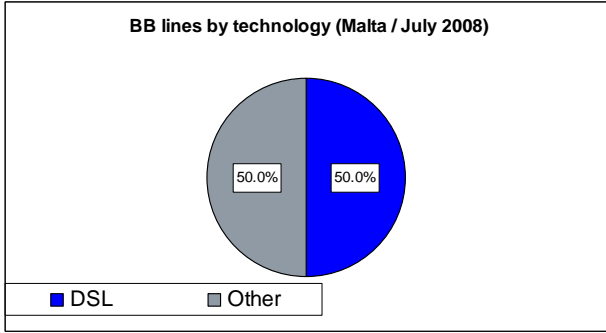
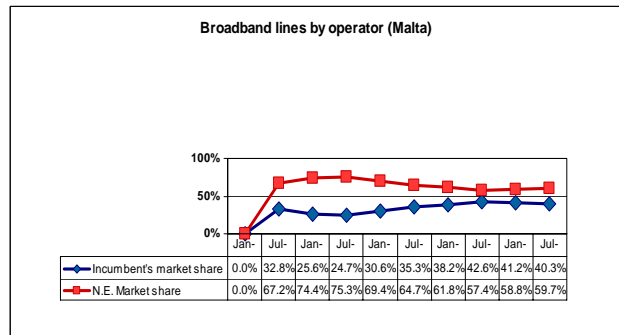
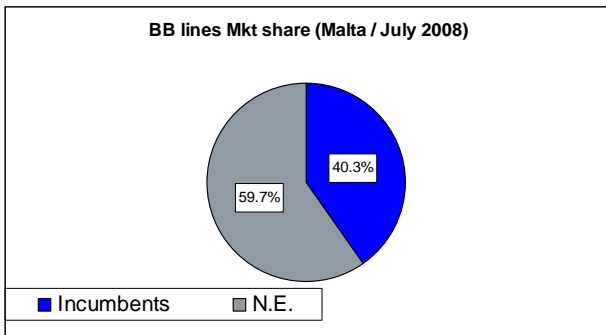
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share- DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0
January 2003	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0
July 2003	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0
January 2004	94,044	50.2%	93,184	49.8%	117,369	62.7%	69,859	37.3%	187,228
July 2004	131,764	51.3%	125,262	48.7%	165,940	64.6%	91,034	35.4%	257,016
January 2005	190,457	52.1%	175,284	47.9%	239,810	65.6%	125,931	34.4%	365,741
July 2005	237,669	51.9%	219,889	48.1%	297,237	65.0%	160,320	35.0%	457,557
January 2006	333,351	53.8%	286,361	46.2%	412,886	66.6%	208,826	33.4%	619,712
July 2006	384,778	50.6%	375,493	49.4%	485,881	63.9%	274,390	36.1%	760,271
January 2007	506,650	50.9%	489,134	49.1%	614,894	61.7%	330,890	38.3%	945,784
July 2007	580,678	49.5%	591,389	50.5%	699,155	59.7%	472,912	40.3%	1,172,067
January 2008	636,436	44.6%	792,230	55.6%	751,860	52.6%	676,866	47.4%	1,428,726
July 2008	677,704	43.0%	899,233	57.0%	789,613	50.1%	787,324	49.9%	1,576,937



Retail fixed broadband access in Malta, July 2008

	New entrants' DSL lines on PSTN						Incumbents' access lines by other means						New entrants' access lines by other means												
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2004	4,511	0	0	0	0	6,915	6,915	0	0	0	0	0	0	0	0	0	2,312	0	0	0	0	0	0	0	2,312
January 2005	9,752	0	0	0	0	12,393	12,393	0	0	0	0	0	0	0	0	0	15,909	0	0	0	0	0	0	0	15,909
July 2005	10,283	0	0	0	0	13,516	13,516	0	0	0	0	0	0	0	0	0	17,752	0	0	0	0	0	0	0	17,752
January 2006	15,669	0	0	0	0	14,470	14,470	0	0	0	0	0	0	0	0	0	21,150	0	0	0	0	0	0	0	21,150
July 2006	18,336	0	0	0	0	12,187	12,187	0	0	0	0	0	0	0	0	0	21,420	0	0	0	0	0	0	0	21,420
January 2007	19,287	0	0	0	0	10,577	10,577	0	0	0	0	0	0	0	0	0	20,629	0	0	0	0	0	0	0	20,629
July 2007	24,000	0	0	0	0	10,600	10,600	0	0	0	0	0	0	0	0	0	21,800	0	0	0	0	0	0	0	21,800
January 2008	28,400	0	0	0	0	9,900	9,900	0	0	0	0	0	0	0	0	0	29,700	0	0	0	0	0	0	0	29,700
July 2008	33,732	0	0	0	0	8,129	8,129	0	0	0	0	0	0	0	0	0	2,038	38,868	0	0	0	0	0	0	41,906

	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share- DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0
January 2003	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0
July 2003	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0
January 2004	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0 n.a.	0
July 2004	4,511	32.8%	9,227	67.2%	11,426	83.2%	2,312	16.8%	13,738
January 2005	9,752	25.6%	28,302	74.4%	22,145	58.2%	15,909	41.8%	38,054
July 2005	10,283	24.7%	31,268	75.3%	23,799	57.3%	17,752	42.7%	41,551
January 2006	15,669	30.6%	35,620	69.4%	30,139	58.8%	21,150	41.2%	51,289
July 2006	18,336	35.3%	33,607	64.7%	30,523	58.8%	21,420	41.2%	51,943
January 2007	19,287	38.2%	31,206	61.8%	29,864	59.1%	20,629	40.9%	50,493
July 2007	24,000	42.6%	32,400	57.4%	34,600	61.3%	21,800	38.7%	56,400
January 2008	28,400	41.2%	40,550	58.8%	38,300	58.8%	30,650	44.5%	68,950
July 2008	33,732	40.3%	50,035	59.7%	41,861	50.0%	41,906	50.0%	83,767

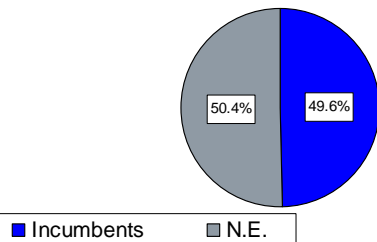


Retail fixed broadband access in the Netherlands, July 2008

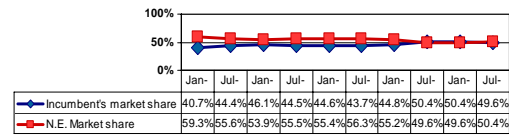
Incumbent's DSL lines	New entrants' DSL lines on PSTN							Incumbents' access lines by other means										New entrants' access lines by other means								
	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)		
July 2002	195,789	0	13,686	7,229	0	20,915	0	0	0	0	0	0	0	0	0	0	800,000	0	0	0	0	0	0	0	800,000	
January 2003	563,021	0	25,514	25,326	0	50,840	n.a.	0	0	0	0	0	0	0	0	0	800,000	0	0	0	0	0	0	0	800,000	
July 2003	569,474	0	28,730	81,304	0	110,034	n.a.	0	0	0	0	0	0	0	0	0	800,000	0	0	0	0	0	0	0	800,000	
January 2004	776,968	0	33,995	167,281	0	201,076	0	0	0	0	0	0	0	0	0	n.y.a.	930,000	0	0	0	0	0	0	0	930,000	
July 2004	1,053,000	0	39,625	281,504	0	321,129	0	0	0	0	0	0	0	0	0	n.y.a.	998,400	0	0	0	0	0	0	0	998,400	
January 2005	1,422,347	0	48,463	413,751	0	462,214	0	0	0	0	0	0	0	0	0	n.y.a.	1,200,000	0	0	0	0	0	0	0	1,200,000	
July 2005	1,620,005	0	60,811	523,251	0	584,062	0	0	0	0	0	0	0	0	0	n.y.a.	1,438,248	0	0	0	0	0	0	0	1,438,248	
January 2006	1,832,806	0	121,626	596,620	0	718,246	0	0	0	0	0	0	0	0	0	0	1,562,521	0	0	0	0	0	0	0	1,562,521	
July 2006	2,072,005	0	214,328	562,501	0	776,829	0	0	0	0	0	0	0	0	0	0	1,810,000	0	0	0	0	0	0	0	1,810,000	
January 2007	2,325,200	0	291,000	561,000	confidential	852,000	0	0	0	0	0	0	0	0	0	0	1,560,000	0	0	0	0	0	0	0	0	1,560,000
July 2007	2,757,900	0	309,000	260,000	0	569,000	0	0	0	0	0	0	0	0	0	0	2,076,000	0	0	0	0	0	0	0	2,076,000	
January 2008	2,915,000	0	336,000	237,000	0	573,000	0	0	0	0	0	0	0	0	0	0	2,134,000	0	0	0	0	0	0	0	2,134,000	
July 2008	2,901,300	0	417,000	223,000	confidential	640,000	0	0	0	0	0	0	0	0	0	0	2,216,000	0	0	0	0	0	0	0	0	2,216,000

	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share-DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	195,789	19.3%	820,915	80.7%	216,704	21.3%	800,000	78.7%	1,016,704
January 2003	563,021	29.9%	850,840	70.1%	413,861	34.1%	800,000	65.9%	1,213,861
July 2003	569,474	36.1%	1,010,034	63.9%	679,508	43.0%	900,000	57.0%	1,579,508
January 2004	776,968	40.7%	1,131,076	59.3%	978,044	51.3%	930,000	48.7%	1,908,044
July 2004	1,053,000	44.4%	1,319,529	55.6%	1,374,129	57.9%	998,400	42.1%	2,372,529
January 2005	1,422,347	46.1%	1,662,214	53.9%	1,884,561	61.1%	1,200,000	38.9%	3,084,561
July 2005	1,620,005	44.5%	2,022,310	55.5%	2,204,067	60.5%	1,438,248	39.5%	3,642,315
January 2006	1,832,806	44.6%	2,280,767	55.4%	2,551,052	62.0%	1,562,521	38.0%	4,113,573
July 2006	2,072,005	43.7%	2,669,829	56.3%	2,848,829	60.1%	1,893,000	39.9%	4,741,829
January 2007	2,325,200	44.8%	2,867,000	55.2%	3,177,200	61.2%	2,015,000	38.8%	5,192,200
July 2007	2,757,900	50.4%	2,710,000	49.6%	3,326,900	60.8%	2,141,000	39.2%	5,467,900
January 2008	2,915,000	50.4%	2,772,600	49.6%	3,388,000	60.6%	2,199,600	39.4%	5,587,600
July 2008	2,901,300	49.6%	2,950,000	50.4%	3,541,300	60.5%	2,310,000	39.5%	5,851,300

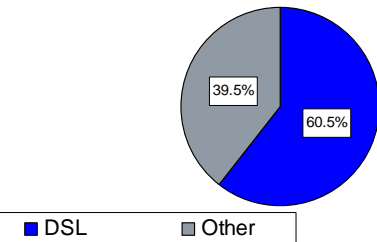
BB lines Mkt share (The Netherlands / July 2008)



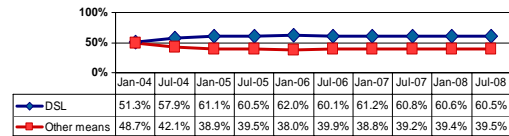
Broadband lines by operator (The Netherlands)



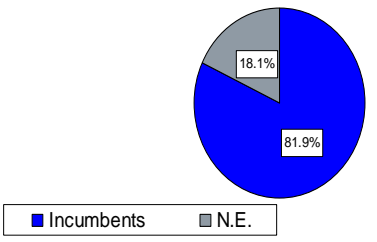
BB lines by technology (The Netherlands / July 2008)



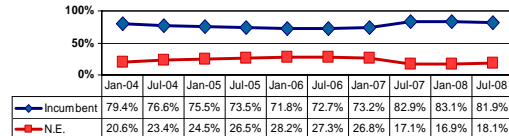
Broadband lines by technology (The Netherlands)



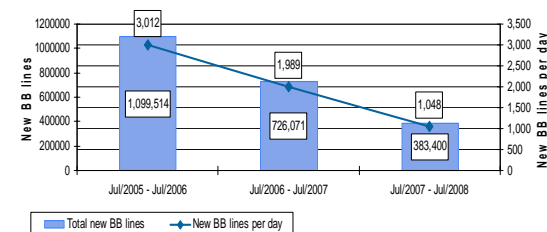
DSL lines Mkt share (The Netherlands / July 2008)



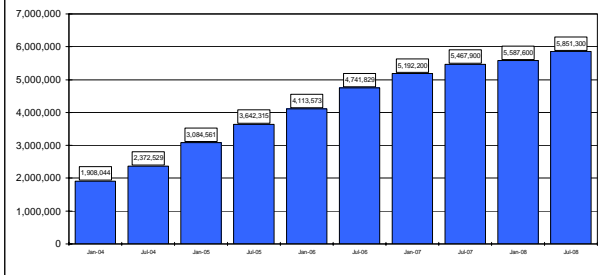
DSL lines by operator (The Netherlands)



New broadband lines per year (The Netherlands)



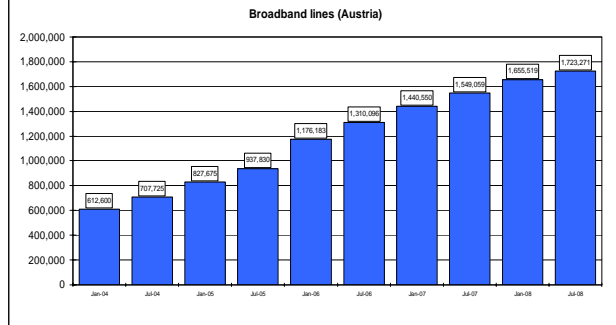
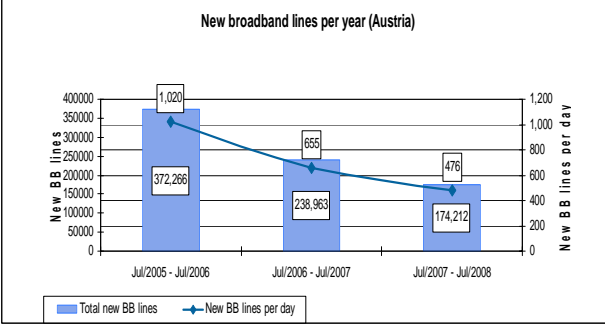
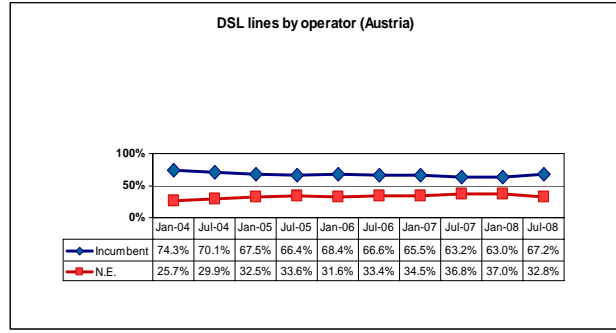
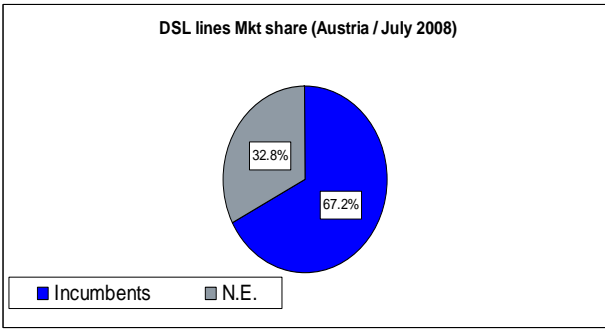
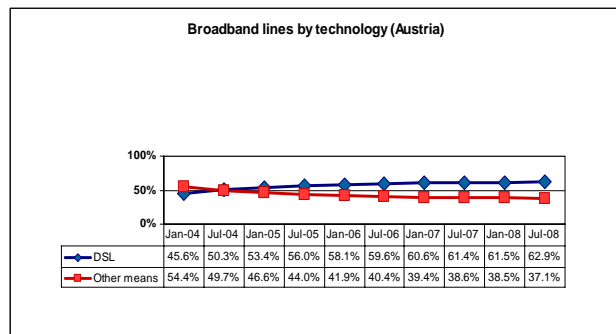
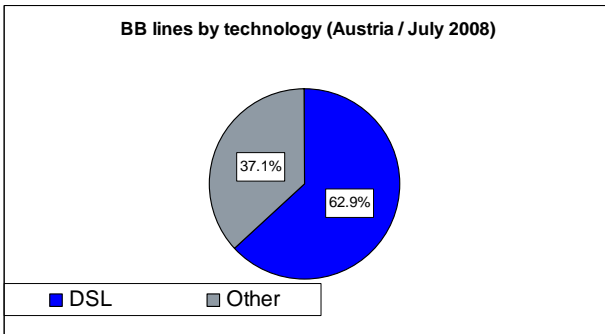
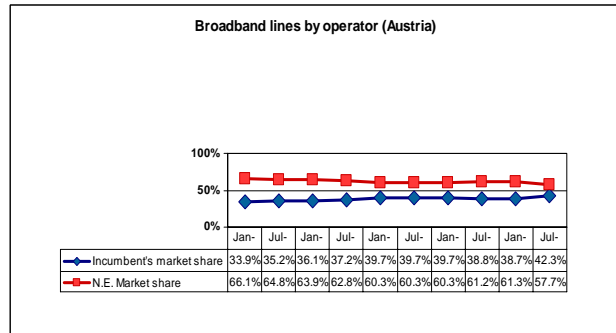
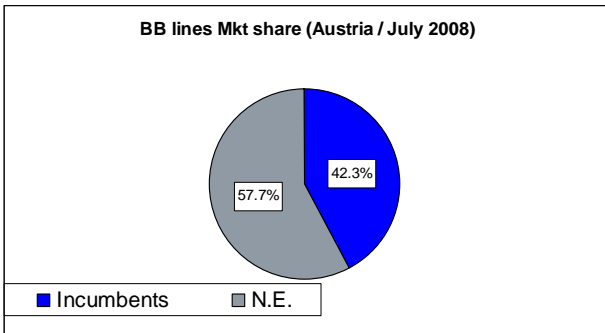
Broadband lines (The Netherlands)



Retail fixed broadband access in Austria, July 2008

Incumbent's DSL lines	New entrants' DSL lines on PSTN							Incumbents' access lines by other means										New entrants' access lines by other means						
	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	113,900	0	2,640	0	22,100	0	24,740	0	0	0	0	0	0	0	0	0	236,000	0	0	0	0	0	0	236,000
January 2003	143,100	0	3,500	0	31,000	0	36,500	0	0	0	0	0	0	0	0	0	272,000	0	0	0	200	0	0	272,200
July 2003	174,300	0	3,750	0	40,600	0	50,350	0	0	0	0	0	0	0	0	0	302,000	0	0	0	400	0	0	302,400
January 2004	207,800	0	18,500	0	53,300	0	71,800	0	0	0	0	0	0	0	0	0	331,000	0	1,000	0	1,000	0	0	333,000
July 2004	249,400	0	35,007	16	71,300	0	106,325	0	0	0	0	0	0	0	0	0	350,000	0	1,000	0	1,000	0	0	352,000
January 2005	298,400	0	58,440	35	85,200	0	143,675	0	0	0	0	0	0	0	0	0	380,000	0	1,000	0	1,000	0	0	385,000
July 2005	349,000	0	81,255	75	94,900	0	176,230	0	0	0	0	0	0	0	0	0	2,000	405,000	0	1,000	0	4,600	0	412,600
January 2006	467,000	0	110,000	83	106,000	0	216,083	0	0	0	0	0	0	0	0	0	15,000	472,000	0	1,000	0	5,100	0	493,100
July 2006	520,041	0	143,301	101	117,965	0	261,367	0	0	0	0	0	0	0	0	0	17,742	502,546	1,200	1,000	1,000	5,200	0	529,888
January 2007	572,014	0	178,556	113	122,635	0	301,304	0	0	0	0	0	0	0	0	0	20,122	537,684	2,028	1,000	1,000	5,400	0	567,232
July 2007	601,280	0	227,238	125	121,888	0	349,751	0	0	0	0	0	0	0	0	0	40,034	546,850	2,000	3,344	400	5,400	0	598,028
January 2008	641,417	0	267,869	123	108,287	0	376,379	0	0	0	0	0	0	0	0	0	41,048	583,257	2,000	4,042	0	5,188	2,178	637,723
July 2008	729,114	0	264,864	133	90,430	0	355,427	0	0	0	0	0	0	0	0	0	36,000	590,000	0	4,500	0	6,000	2,230	638,730

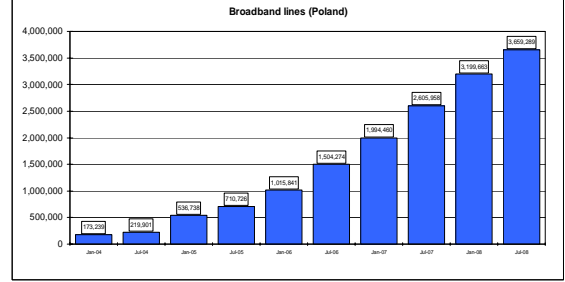
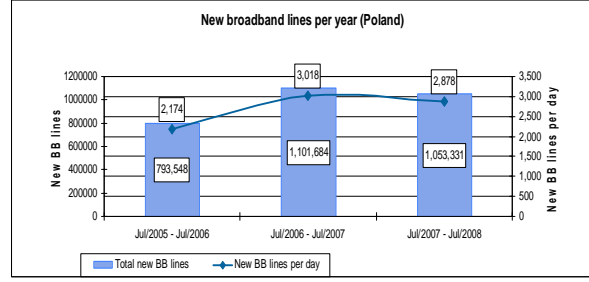
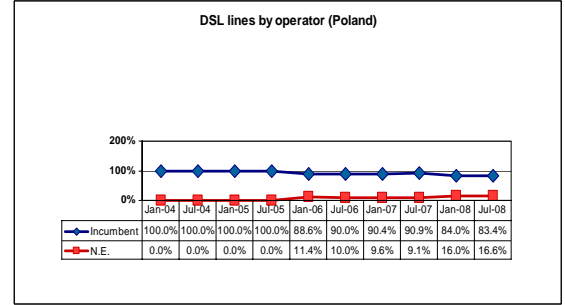
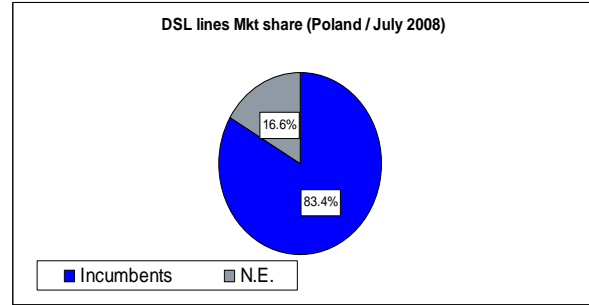
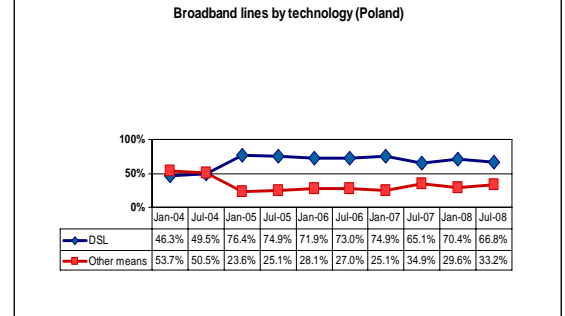
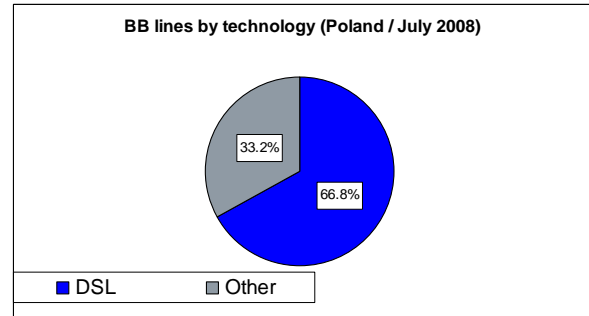
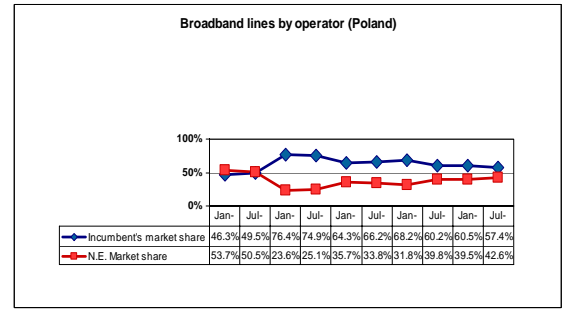
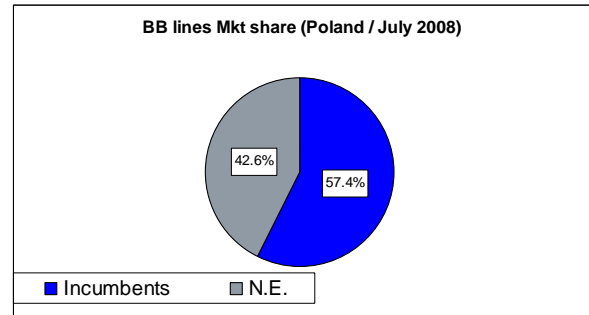
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share: DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	113,900	30.4%	260,740	69.6%	138,640	37.0%	236,000	63.0%	374,640
January 2003	143,100	31.7%	308,700	68.3%	179,600	39.8%	272,200	60.2%	451,800
July 2003	174,300	33.1%	352,750	66.9%	224,650	42.6%	302,400	57.4%	527,050
January 2004	207,800	33.9%	404,800	66.1%	279,600	45.6%	333,000	54.4%	612,600
July 2004	249,400	35.2%	458,325	64.8%	355,725	50.3%	352,000	49.7%	707,725
January 2005	298,400	36.1%	529,275	63.9%	442,075	53.4%	385,600	46.6%	827,675
July 2005	349,000	37.2%	588,330	62.8%	525,230	56.0%	412,600	44.0%	937,830
January 2006	467,000	39.7%	709,183	60.3%	683,083	58.1%	493,100	41.9%	1,176,183
July 2006	520,041	39.7%	790,055	60.3%	781,408	59.6%	528,688	40.4%	1,310,096
January 2007	572,014	39.7%	868,536	60.3%	873,318	60.6%	567,232	39.4%	1,440,550
July 2007	601,280	38.8%	947,779	61.2%	951,031	61.4%	598,028	38.6%	1,549,059
January 2008	641,417	38.7%	1,014,102	61.3%	1,017,796	61.5%	637,723	38.5%	1,655,519
July 2008	729,114	42.3%	994,157	57.7%	1,084,541	62.9%	638,730	37.1%	1,723,271



Retail fixed broadband access in Poland, July 2008

	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means								
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2004	80,239	0	0	0	0	0	80,239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80,239
July 2004	108,901	0	0	0	0	0	108,901	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108,901
January 2005	410,186	0	0	0	0	0	410,186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	410,186
July 2005	532,284	0	0	0	0	0	532,284	0	0	0	0	0	0	0	0	0	1,665	155,974	19,124	9	263	0	1,407	0	178,442
January 2006	646,736	48,404	0	0	35,216	0	83,620	0	0	0	0	0	0	0	6,575	6,575	5,406	234,323	36,543	354	83	0	2,189	0	278,908
July 2006	995,150	109,669	0	0	0	0	109,669	0	92	0	0	0	0	0	6,081	6,173	19,401	334,400	46,467	1,125	97	0	6,752	863	399,242
January 2007	1,350,819	142,916	0	59	0	0	142,975	0	3,089	0	0	0	0	0	6,135	9,224	12,339	457,519	3,261	1,195	4	0	17,124	636	491,442
July 2007	1,542,349	100,442	0	0	53,737	0	154,179	0	19,353	0	0	0	0	0	6,095	25,448	19,756	756,177	2,380	7,499	0	0	96,170	20,157	863,982
January 2008	1,891,027	225,547	7	0	138,869	0	364,423	0	40,226	0	0	0	0	0	5,837	49,862	22,898	797,209	2,194	1,348	0	0	77,712	688	901,851
July 2008	2,040,380	238,834	179	81	166,224	0	405,318	0	52,483	0	0	0	0	0	7,584	60,067	16,082	1,051,683	2,038	1,577	0	0	82,144	418	1,153,524

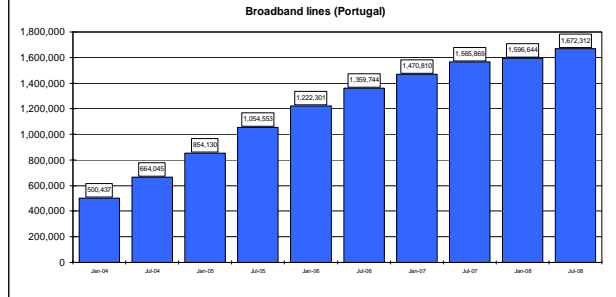
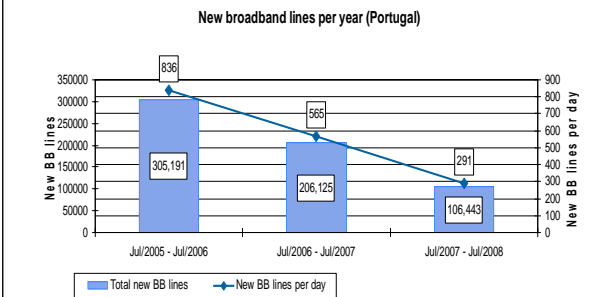
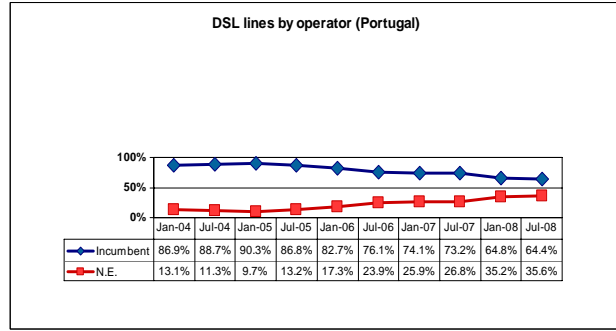
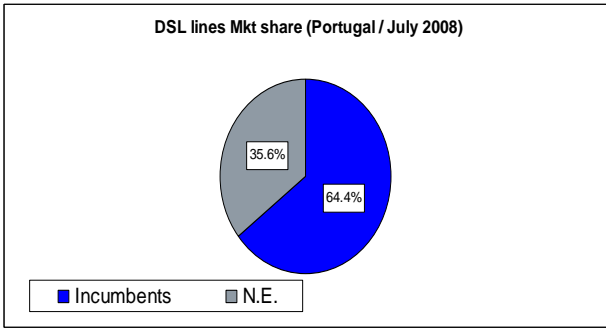
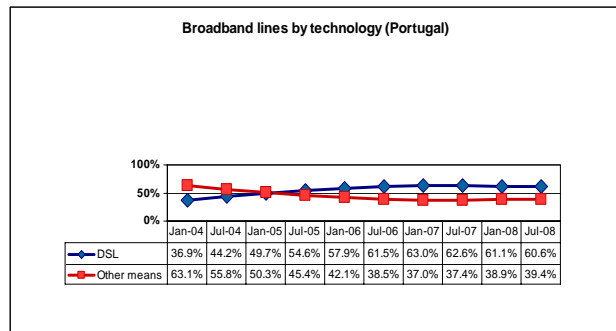
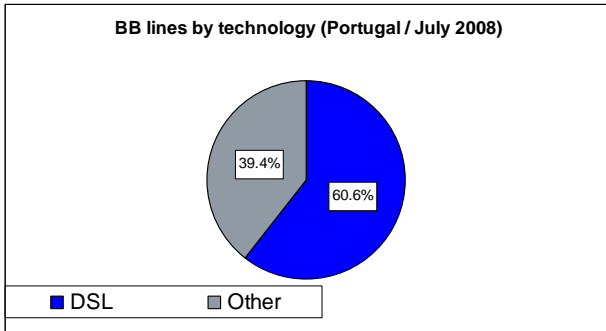
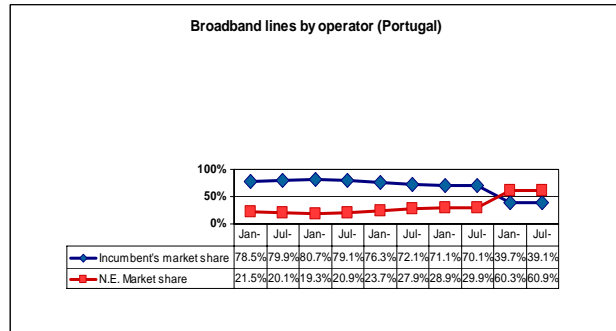
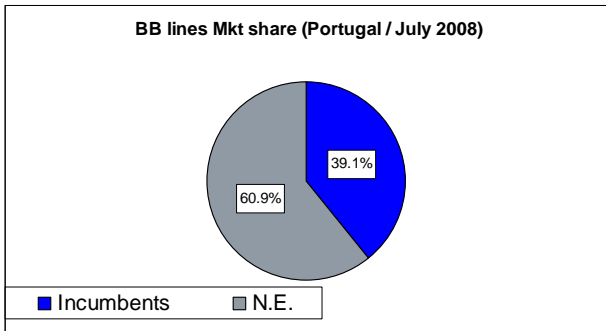
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2004	80,239	46.3%	93,000	53.7%	80,239	46.3%	93,000	53.7%	173,239
July 2004	108,901	49.5%	111,000	50.5%	108,901	49.5%	111,000	50.5%	219,901
January 2005	410,186	76.4%	126,551	23.6%	410,186	76.4%	126,551	23.6%	536,738
July 2005	532,284	74.9%	178,442	25.1%	532,284	74.9%	178,442	25.1%	710,726
January 2006	653,313	64.3%	362,528	35.7%	730,358	71.9%	285,483	28.1%	1,015,841
July 2006	995,363	66.2%	508,911	33.8%	1,098,859	73.0%	405,415	27.0%	1,504,274
January 2007	1,360,043	68.2%	634,417	31.8%	1,493,794	74.9%	500,666	25.1%	1,994,460
July 2007	1,567,737	60.2%	1,038,161	39.8%	1,696,528	65.1%	909,430	34.9%	2,605,958
January 2008	1,936,369	60.5%	1,262,774	39.5%	2,252,460	70.4%	947,273	29.6%	3,199,663
July 2008	2,100,447	57.4%	1,558,842	42.6%	2,445,698	66.8%	1,213,591	33.2%	3,659,289



Retail fixed broadband access in Portugal, July 2008

	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means									
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	
July 2002	5,333	0	20	0	189	0	209	0	95,001	0	0	0	0	0	0	95,001	0	50,303	0	0	0	0	0	0	0	50,303
January 2003	43,657	0	54	0	9,099	n.a.	9,153	0	140,340	0	0	0	0	0	0	140,340	0	67,146	0	0	0	0	0	0	0	67,146
July 2003	90,722	0	295	0	16,520	0	16,815	0	187,698	0	0	0	0	0	0	187,698	0	74,731	0	0	0	0	0	0	0	74,731
January 2004	160,705	0	1,955	0	22,800	0	24,755	0	232,007	0	0	0	0	0	0	232,007	0	83,570	0	0	0	0	0	0	0	83,570
July 2004	260,341	0	4,291	0	28,933	0	33,094	0	268,799	1,288	0	0	0	0	0	270,087	797	97,340	2,100	0	0	0	0	286	0	100,523
January 2005	383,034	0	7,870	4	33,261	0	41,135	0	326,000	1,272	0	0	0	0	0	326,272	1,371	120,022	2,010	0	0	0	0	286	0	123,689
July 2005	500,405	0	27,623	6	48,224	0	75,853	0	333,000	1,258	0	0	0	0	0	334,258	1,636	138,919	1,882	0	0	0	0	1,500	0	144,037
January 2006	585,579	0	68,602	6	53,729	0	122,337	0	346,077	1,246	0	0	0	0	0	347,323	1,644	161,944	1,874	0	0	0	0	1,500	0	167,062
July 2006	636,125	0	139,853	6	59,384	0	199,873	0	342,945	1,263	0	0	0	0	0	344,208	1,801	174,131	2,055	0	0	0	0	1,500	0	173,536
January 2007	686,681	0	188,296	3	51,440	0	239,739	0	358,569	1,046	0	0	0	0	0	359,615	3,532	179,081	2,162	0	0	0	0	0	0	184,775
July 2007	717,612	0	236,788	3	26,136	0	262,928	0	378,894	1,048	0	0	0	0	0	379,940	5,615	197,368	2,405	0	0	0	0	0	0	205,389
January 2008	631,959	0	283,231	1	59,947	0	343,179	0	0	1,191	0	0	0	0	0	1,402	1,191	12,012	605,799	2,504	0	0	0	0	0	620,315
July 2008	653,018	0	305,534	1	54,323	1,359	361,217	0	0	787	303	26	0	0	0	1,116	18,194	635,229	2,483	1,055	0	0	0	0	0	656,961

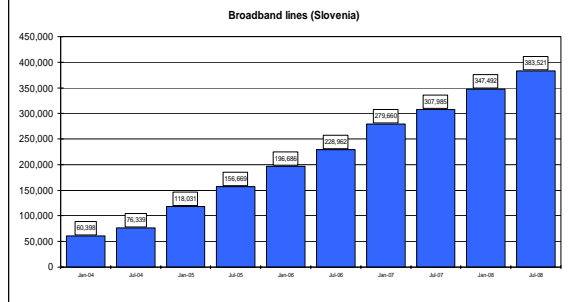
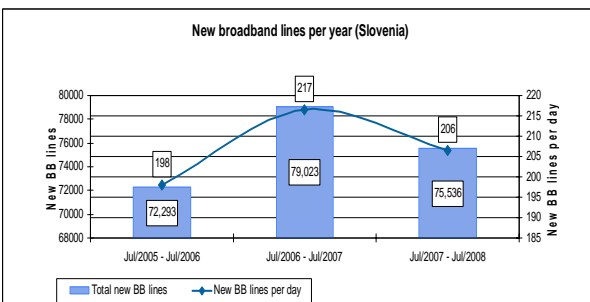
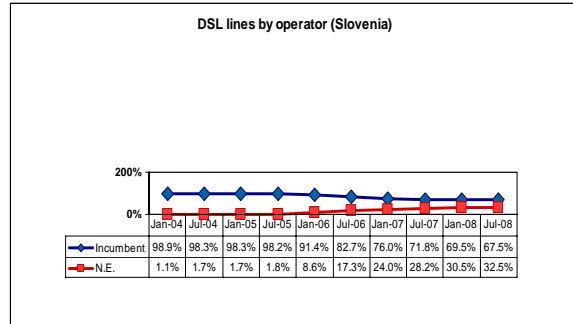
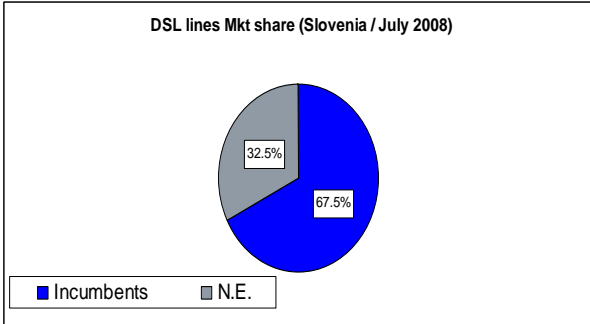
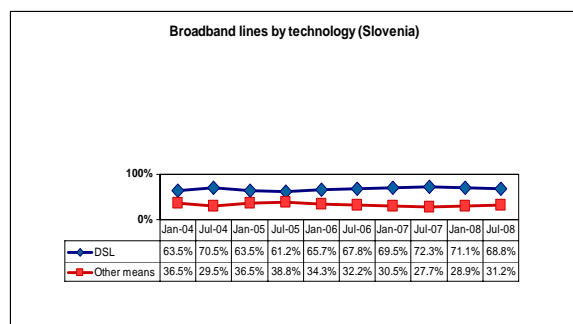
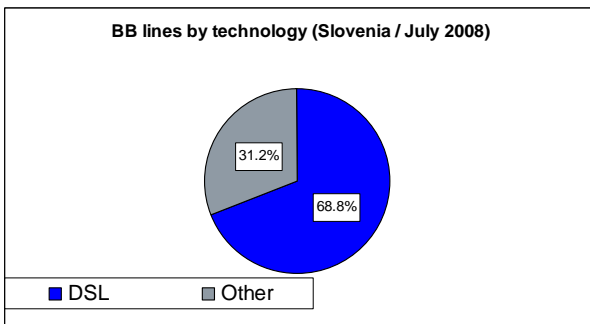
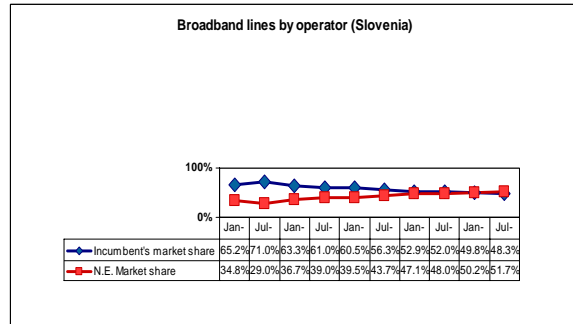
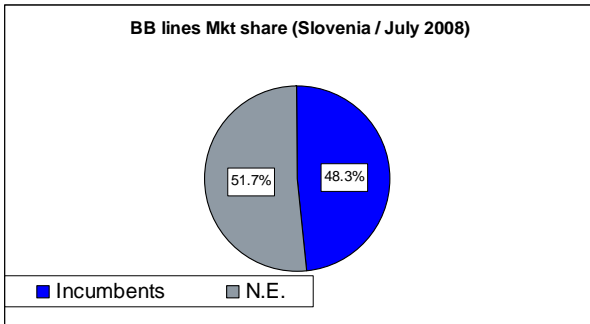
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	100,334	66.5%	50,512	33.5%	5,542	3.7%	145,304	96.3%	150,846
January 2003	183,997	70.7%	76,299	29.3%	52,810	20.3%	207,486	79.7%	260,296
July 2003	278,330	75.2%	91,546	24.8%	107,537	29.1%	262,339	70.9%	369,876
January 2004	392,712	78.5%	107,725	21.5%	184,860	36.9%	315,577	63.1%	500,437
July 2004	530,428	79.9%	133,617	20.1%	293,435	44.2%	370,610	55.8%	664,045
January 2005	689,306	80.7%	164,824	19.3%	424,169	49.7%	429,961	50.3%	854,130
July 2005	834,663	79.1%	219,890	20.9%	576,258	54.6%	478,295	45.4%	1,054,553
January 2006	932,902	76.3%	289,399	23.7%	707,916	57.9%	514,385	42.1%	1,222,301
July 2006	980,333	72.1%	379,411	27.9%	835,998	61.5%	523,746	38.5%	1,359,744
January 2007	1,046,296	71.1%	424,514	28.9%	926,420	63.0%	544,390	37.0%	1,470,810
July 2007	1,097,552	70.1%	468,317	29.9%	980,540	62.6%	585,329	37.4%	1,565,869
January 2008	633,150	39.7%	963,494	60.3%	976,138	61.1%	621,506	38.9%	1,596,644
July 2008	654,134	39.1%	1,018,178	60.9%	1,014,235	60.6%	658,077	39.4%	1,672,312



Retail fixed broadband access in Slovenia, July 2008

	Incumbents' DSL lines	New entrants' DSL lines on PSTN					Incumbents' access lines by other means							New entrants' access lines by other means											
		Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modern	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modern	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2004	37,907	0	0	0	423	423	0	1,215	70	0	0	0	186	0	1,471	422	19,929	125	0	0	0	0	121	0	20,597
July 2004	52,929	0	0	0	311	311	0	1,984	0	243	0	0	0	0	1,307	150	20,242	0	745	0	0	0	55	0	21,192
January 2005	73,651	0	0	0	1,271	1,271	0	842	0	275	0	0	0	0	1,117	225	40,190	0	1,418	0	0	0	189	0	41,992
July 2005	94,192	0	0	0	1,544	1,544	0	1,001	0	315	0	0	0	0	1,316	358	58,298	0	485	0	0	0	290	0	59,421
January 2006	118,191	0	847	0	10,243	11,090	0	571	0	300	0	0	0	54	871	525	64,871	0	888	15	0	0	195	0	66,534
July 2006	128,355	0	7,945	3,839	8,678	6,471	26,933	0	229	0	305	0	0	255	534	251	71,890	0	867	0	0	0	132	18	73,140
January 2007	147,708	0	16,180	11,489	10,851	8,131	46,631	0	192	0	190	0	0	255	352	249	81,448	0	2,876	0	0	0	398	4	84,969
July 2007	169,884	0	25,242	15,164	21,064	1,236	62,706	0	0	0	71	0	0	87	71	242	73,325	503	4,827	18	0	0	309	311	85,224
January 2008	171,652	0	34,905	21,079	18,849	421	75,254	0	0	0	1,451	0	0	67	1,451	231	87,440	0	10,982	7	0	0	475	510	99,135
July 2008	178,054	0	43,792	22,760	19,262	0	85,814	8	0	0	7,017	0	0	70	7,025	203	89,830	261	22,134	7	0	0	193	512	112,629

	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2004	39,378	65.2%	21,020	34.8%	38,330	63.5%	22,068	36.5%	60,398
July 2004	54,236	71.0%	22,103	29.0%	53,840	70.5%	22,499	29.5%	76,339
January 2005	74,768	63.3%	43,263	36.7%	74,922	63.5%	43,109	36.5%	118,031
July 2005	95,608	61.0%	61,161	39.0%	95,932	61.2%	60,737	39.8%	156,669
January 2006	119,062	60.5%	77,624	39.5%	129,281	65.7%	67,405	34.3%	196,686
July 2006	128,889	56.3%	100,073	43.7%	155,288	67.8%	73,674	32.2%	228,962
January 2007	148,060	52.9%	131,600	47.1%	194,339	69.5%	85,321	30.5%	279,660
July 2007	160,055	52.0%	147,930	48.0%	222,690	72.3%	85,295	27.7%	307,985
January 2008	173,103	49.8%	174,389	50.2%	246,906	71.1%	100,586	28.9%	347,492
July 2008	185,079	48.3%	198,442	51.7%	263,868	68.8%	119,653	31.2%	383,521

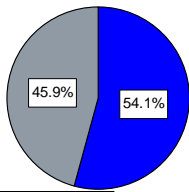


Retail fixed broadband access in Slovakia, July 2008

	New entrants' DSL lines on PSTN							Incumbents' access lines by other means							New entrants' access lines by other means										
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2004	4,210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	785	3,280	0	0	0	0	0	0	0	4,065
July 2004	9,900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	785	3,900	0	0	0	0	0	0	0	4,265
January 2005	38,334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,100	3,235	200	0	0	0	0	3,000	13,535	
July 2005	64,539	0	0	0	0	0	0	0	174	0	0	0	0	0	0	1,200	14,472	0	0	0	0	0	0	15,672	
January 2006	104,487	0	0	0	0	0	0	0	208	0	0	0	0	0	0	208	1,500	20,862	2,370	0	0	0	8,500	33,232	
July 2006	138,138	0	0	0	0	2,364	2,364	0	211	0	0	0	0	0	55	211	2,500	28,552	980	22,500	24	0	22,033	74,588	
January 2007	176,589	0	0	0	0	5,802	5,802	0	248	0	0	0	0	0	0	248	15,000	36,480	950	29,542	24	0	15,000	96,998	
July 2007	202,095	0	0	0	0	9,244	9,244	0	248	0	0	0	0	0	0	248	57,946	42,766	972	38,054	4	0	21,024	160,806	
January 2008	261,313	0	0	0	0	15,625	15,625	0	0	0	0	0	0	0	0	73,834	59,510	0	48,259	4	0	29,230	591	198,828	
July 2008	279,901	0	0	0	0	22,369	22,369	0	0	0	0	0	0	0	0	81,279	55,662	17,768	59,827	28	0	500	214,665		

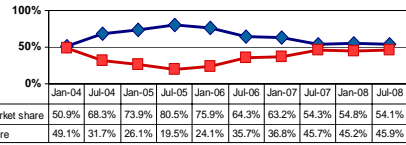
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share- DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2004	4,210	50.9%	4,065	49.1%	4,210	50.9%	4,065	49.1%	8,275
July 2004	9,900	68.3%	4,585	31.7%	9,900	68.3%	4,585	31.7%	14,485
January 2005	38,334	73.9%	13,535	26.1%	38,334	73.9%	13,535	26.1%	51,869
July 2005	64,713	80.5%	15,672	19.5%	64,539	80.3%	15,848	19.7%	80,385
January 2006	104,695	75.9%	33,232	24.1%	104,487	75.8%	33,440	24.2%	137,927
July 2006	138,350	64.3%	76,953	35.7%	140,503	65.3%	74,800	34.7%	215,303
January 2007	176,837	63.2%	102,798	36.8%	182,391	65.2%	97,244	34.8%	279,635
July 2007	202,343	54.3%	170,050	45.7%	211,339	56.8%	161,054	43.2%	372,393
January 2008	261,313	54.8%	215,353	45.2%	277,838	58.3%	198,828	41.7%	476,666
July 2008	279,901	54.1%	237,034	45.9%	302,270	58.5%	214,665	41.5%	516,935

BB lines Mkt share (Slovakia / July 2008)

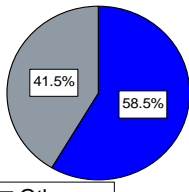


■ Incumbents ■ N.E.

Broadband lines by operator (Slovakia)

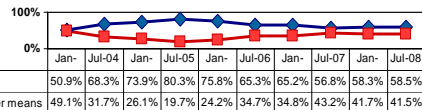


BB lines by technology (Slovakia / July 2008)

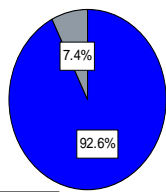


■ DSL ■ Other

Broadband lines by technology (Slovakia)

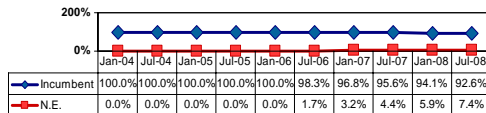


DSL lines Mkt share (Slovakia / July 2008)

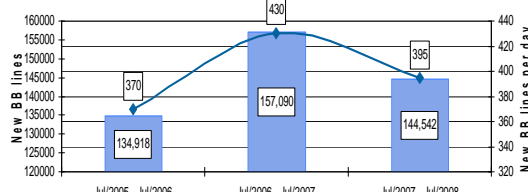


■ Incumbents ■ N.E.

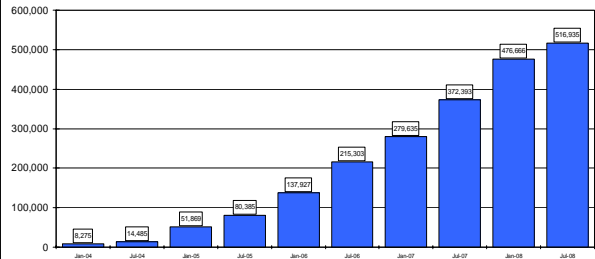
DSL lines by operator (Slovakia)



New broadband lines per year (Slovakia)



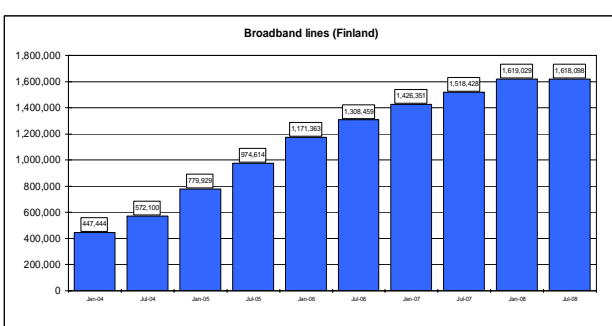
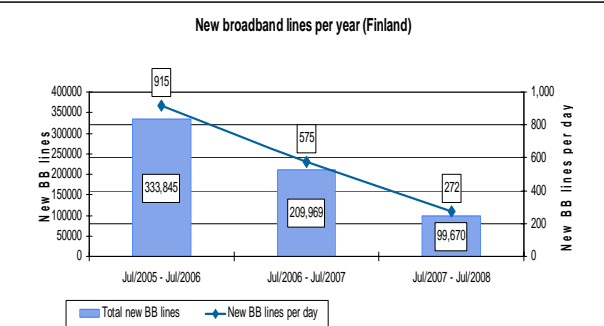
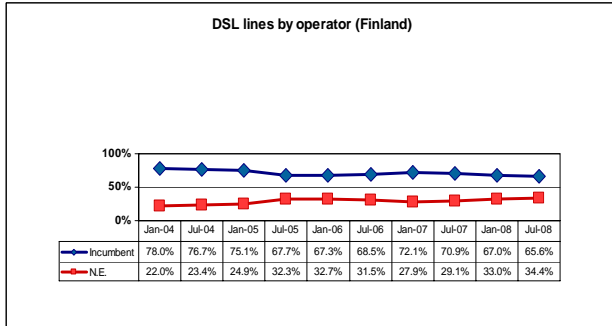
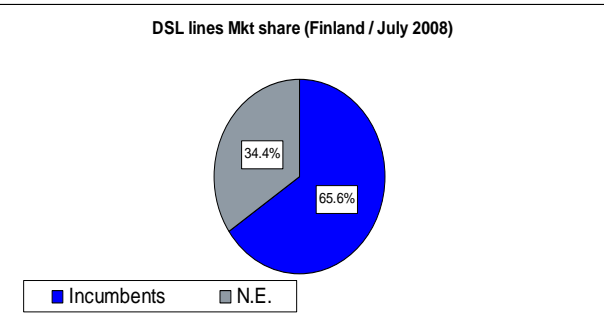
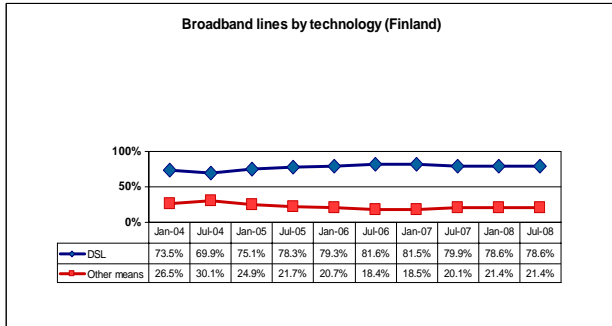
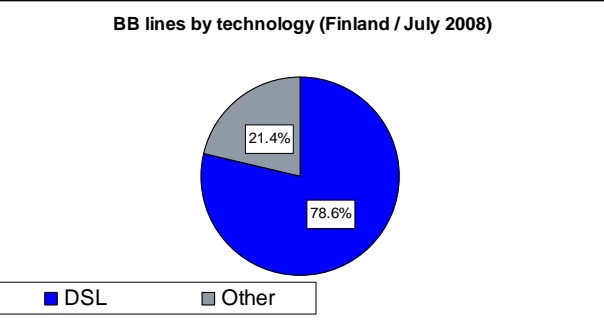
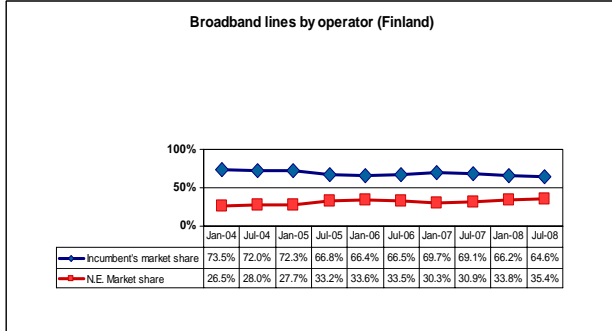
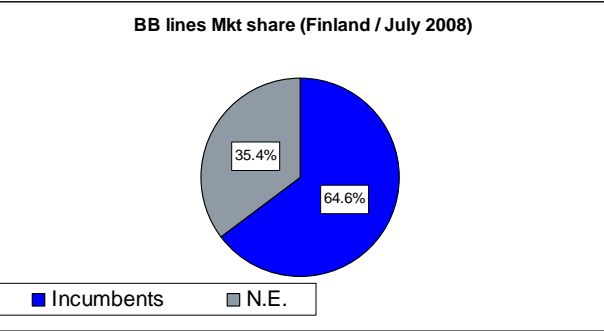
Broadband lines (Slovakia)



Retail fixed broadband access in Finland, July 2008

	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means									
	Incumbents' DSL lines	Own network	Full ULL	Shared access	Bitstream access	Retail	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	
July 2002	95,000	0	13,850	2,150	1,300	0	17,300	0	16,000	0	0	0	0	0	0	16,000	0	24,000	0	0	0	0	0	0	24,000	
January 2003	176,000	0	28,000	6,200	5,000	n.a.	39,200	50	23,500	0	0	0	0	0	0	23,550	400	30,500	0	0	0	0	50	0	30,950	
July 2003	206,000	0	39,000	17,000	9,000	0	65,000	50	28,000	0	0	0	0	0	0	28,050	400	35,000	0	0	0	0	500	0	35,900	
January 2004	256,400	0	41,000	12,700	18,600	0	72,300	0	42,300	0	0	0	0	0	0	30,000	0	43,100	0	100	20	620	0	0	49,440	
July 2004	306,600	0	47,050	16,850	29,500	0	93,400	0	50,200	0	0	0	0	0	0	55,000	0	105,200	5,100	47,000	0	100	1,000	13,700	66,900	
January 2005	440,000	0	68,400	28,950	49,200	0	145,550	112	60,400	0	35	0	0	0	0	63,200	0	123,747	3,200	51,950	0	132	950	14,300	70,532	
July 2005	515,710	0	118,277	48,559	78,137	0	245,073	142	68,786	0	60	0	0	0	0	64,856	0	133,853	3,277	58,398	0	196	1,034	14,603	77,466	
January 2006	625,257	0	141,798	58,466	103,747	0	304,011	451	81,488	0	0	0	0	0	0	81,939	0	151,951	2,709	67,423	0	356	0	752	18,904	90,144
July 2006	731,412	0	188,813	80,448	97,409	0	366,670	1,271	86,195	0	0	0	0	0	0	89,835	0	136,301	2,712	75,311	0	0	0	830	23,223	102,076
January 2007	831,456	0	183,116	81,598	78,666	0	343,380	2,214	95,500	0	0	0	0	0	0	98,346	0	158,079	2,643	85,967	0	0	0	812	13,414	106,436
July 2007	859,666	0	195,011	77,159	80,759	0	352,929	7,732	101,114	0	0	0	0	0	0	80,330	0	189,178	3,475	91,810	0	0	0	960	20,412	116,657
January 2008	852,456	0	305,550	38,017	76,527	0	420,094	9,396	111,809	0	0	0	0	0	0	88,260	0	219,225	5,888	98,018	0	0	0	1,185	22,165	127,254
July 2008	834,204	0	351,981	12,552	72,759	0	437,292	13,567	111,068	0	0	0	0	0	0	86,235	0	210,868	5,988	101,867	0	0	0	1,185	26,694	135,734

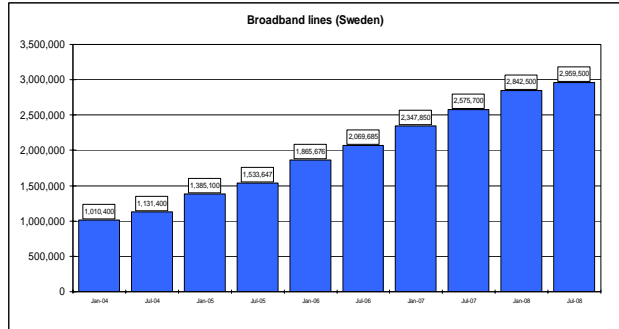
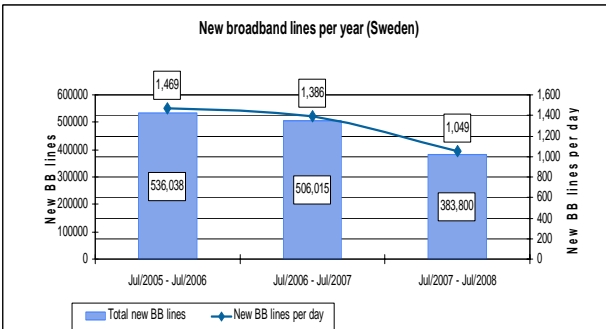
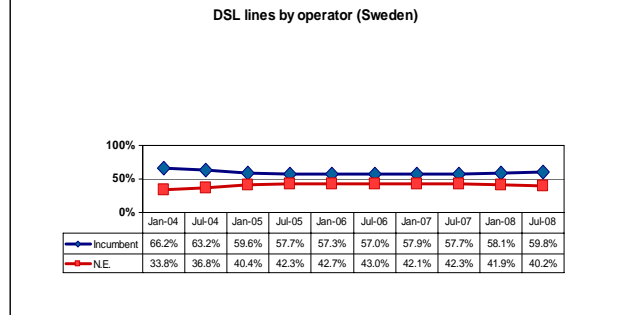
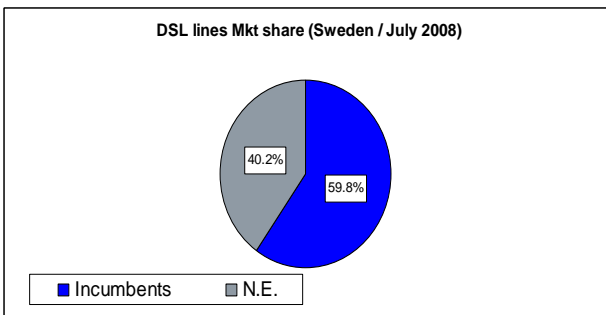
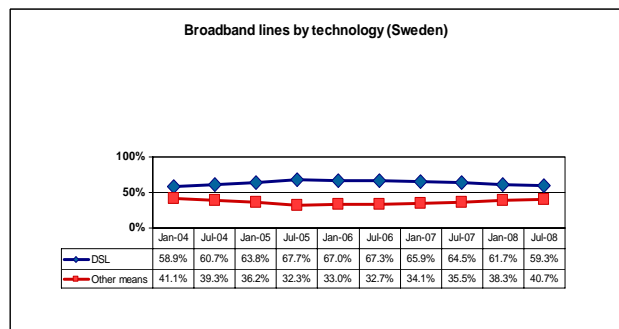
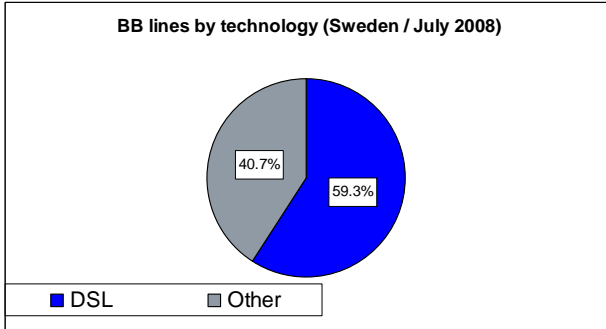
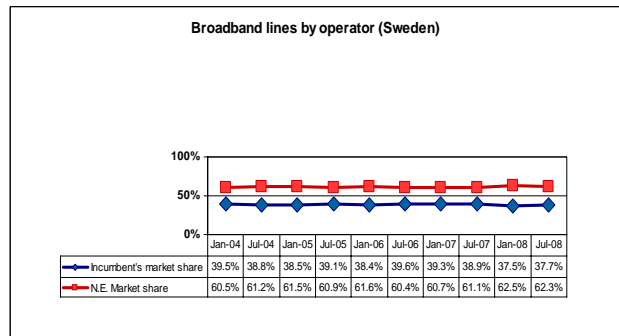
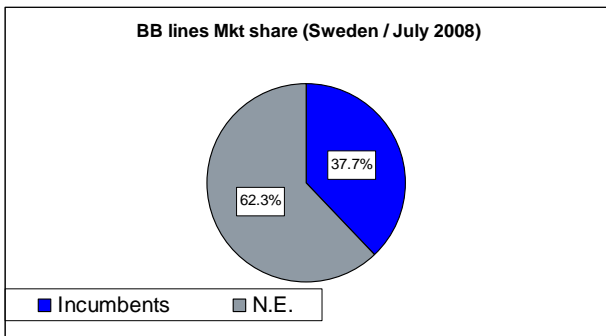
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	111,000	72.9%	41,300	27.1%	112,300	73.7%	40,000	26.3%	152,300
January 2003	193,550	74.0%	70,150	26.0%	215,200	79.3%	54,500	20.2%	269,700
July 2003	234,050	69.9%	100,900	30.1%	271,000	80.9%	63,950	19.1%	334,950
January 2004	328,700	73.5%	118,744	26.5%	328,704	73.5%	118,740	26.5%	447,444
July 2004	411,800	72.0%	160,300	28.0%	400,000	69.9%	172,100	30.1%	572,100
January 2005	563,747	72.3%	216,182	27.7%	585,650	75.1%	194,279	24.9%	779,929
July 2005	650,573	66.8%	324,041	33.2%	763,283	78.3%	211,331	21.7%	974,614
January 2006	777,208	66.4%	394,155	33.6%	929,268	79.3%	242,095	20.7%	1,171,363
July 2006	869,713	66.5%	438,746	33.5%	1,068,082	81.6%	240,377	18.4%	1,308,459
January 2007	993,534	69.7%	432,816	30.3%	1,161,836	81.9%	264,515	18.5%	1,426,351
July 2007	1,048,842	69.1%	469,586	30.9%	1,212,595	79.9%	305,833	20.1%	1,518,428
January 2008	1,071,681	66.2%	547,348	33.8%	1,272,550	78.6%	346,479	21.4%	1,619,029
July 2008	1,045,072	64.6%	573,026	35.4%	1,271,498	78.6%	346,602	21.4%	1,618,098



Retail fixed broadband access in Sweden, July 2008

	Incumbent's DSL lines	New entrants' DSL lines on PSTN					Total new entrants DSL lines	Incumbents' access lines by other means								New entrants' access lines by other means							Public access WiFi Hotspots	Tot. (exc. WiFi)										
		Own network	Full ULL	Shared access	Business access	Retail		WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other												
July 2002	264,000	0	3,000	2,000	1,200	87,000	93,200	0	55,000	3,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58,000	2,500	73,000	0	91,000	0	0	7,000	0	173,500
January 2003	317,000	0	4,000	3,000	1,800	114,000	122,800	0	72,000	3,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75,000	3,000	85,000	0	134,000	0	0	7,000	0	229,000
July 2003	360,000	0	5,000	5,000	2,500	119,000	136,500	0	0	5,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,000	4,300	179,000	0	159,000	500	0	5,000	0	349,800
January 2004	394,000	0	6,000	46,000	3,200	148,000	201,200	0	0	5,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,000	6,200	212,000	0	186,000	700	300	5,000	0	419,200
July 2004	434,000	0	11,000	88,000	3,200	150,000	252,200	0	0	5,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,000	6,300	229,000	0	200,000	800	150	4,000	0	440,200
January 2005	528,000	0	24,000	186,000	3,200	144,000	357,200	0	0	7,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,000	7,000	243,000	0	240,000	800	100	4,000	0	494,900
July 2005	599,000	0	38,441	280,106	3,200	138,000	439,747	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,000	243,000	0	240,000	800	100	4,000	0	494,900	
January 2006	717,000	0	59,861	515,880	3,200	156,000	534,441	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,000	300,000	0	305,000	1,150	85	0	0	615,235	
July 2006	794,000	0	100,000	368,000	0	130,000	598,000	0	0	4,000	21,000	0	0	0	0	0	0	0	0	0	0	0	0	0	25,000	8,600	355,000	6,000	282,000	1,000	85	0	0	652,685
January 2007	896,000	0	119,000	403,000	0	130,000	652,000	0	0	2,000	24,000	0	0	0	0	0	0	0	0	0	0	0	0	0	26,000	8,000	445,000	10,000	310,000	950	0	0	0	773,850
July 2007	958,000	0	142,000	431,000	0	130,000	703,000	0	0	19,000	35,000	0	0	0	0	0	0	0	0	0	0	0	0	0	45,000	4,000	500,000	10,000	355,000	700	0	0	0	895,700
January 2008	1,020,000	0	184,000	441,000	0	130,000	735,000	0	0	5,000	40,000	0	0	0	0	0	0	0	0	0	0	0	0	0	45,000	6,000	550,000	11,000	475,000	500	0	0	0	1,042,500
July 2008	1,050,000	0	151,000	467,000	0	87,000	705,000	0	0	7,000	59,000	0	0	0	0	0	0	0	0	0	0	0	0	0	66,000	5,000	600,000	7,500	526,000	0	0	0	0	1,138,500

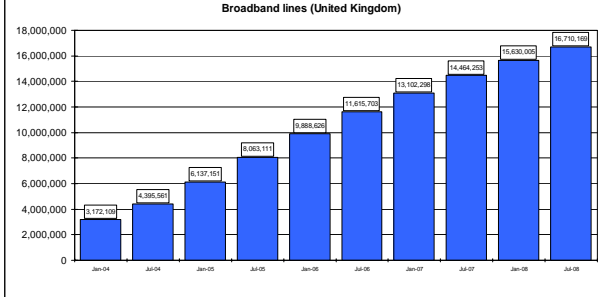
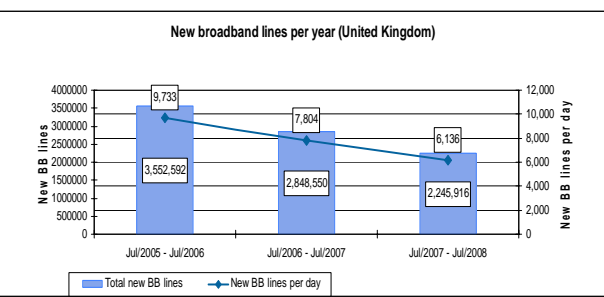
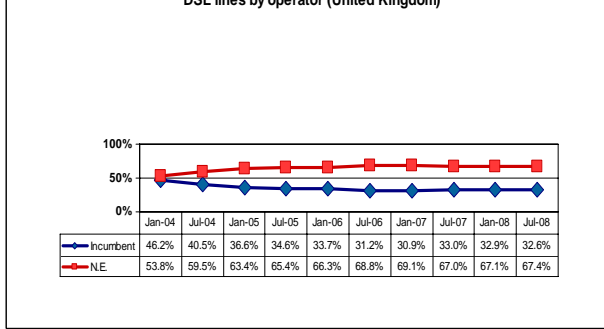
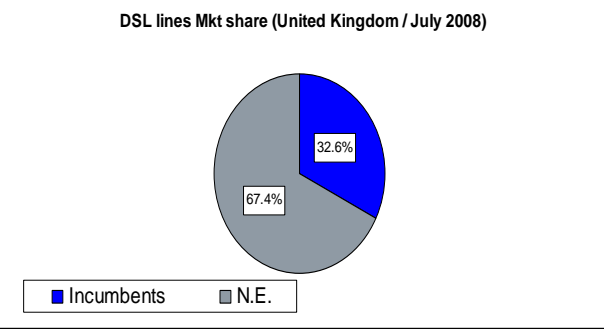
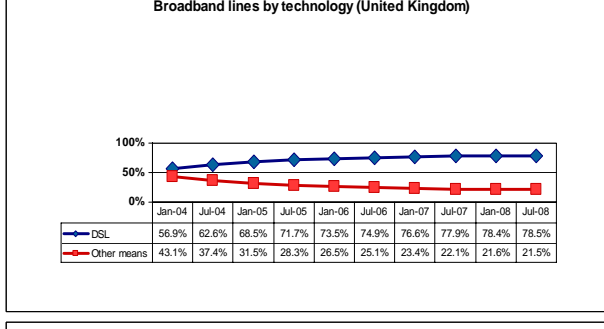
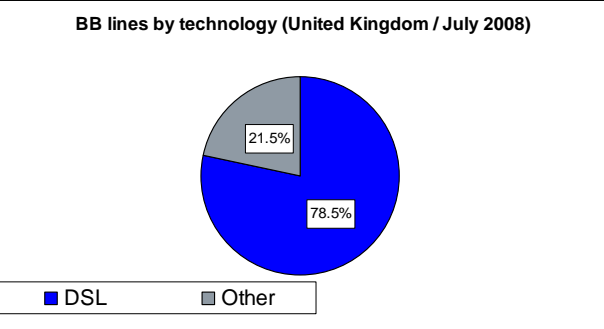
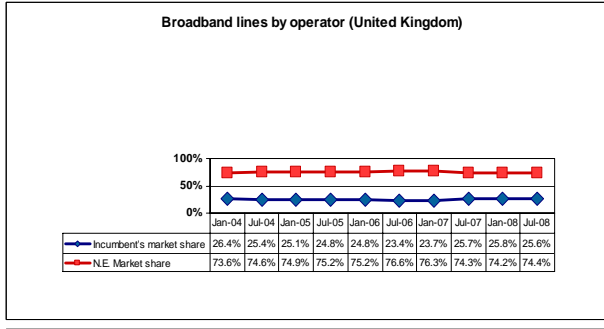
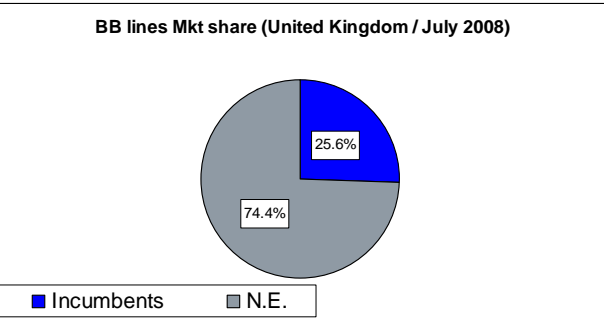
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other	Market share other means	Total broadband access lines
July 2002	322,000	64.7%	266,700	45.3%	367,200	60.7%	231,500	39.3%	688,700
January 2003	392,000	52.7%	351,800	47.3%	439,800	59.1%	304,000	40.9%	743,800
July 2003	365,000	43.1%	482,100	56.9%	495,300	58.5%	351,800	41.5%	847,100
January 2004	399,000	39.6%	611,400	60.5%	596,200	58.9%	415,200	41.1%	1,010,400
July 2004	439,000	38.8%	692,400	61.2%	686,200	60.7%	445,200	39.3%	1,131,400
January 2005	533,000	38.5%	852,100	61.5%	883,200	63.8%	501,900	36.2%	1,385,100
July 2005	599,000	39.1%	934,647	60.9%	1,038,747	67.7%	494,900	32.3%	1,533,647
January 2006	717,000	38.4%	1,148,676	61.6%	1,250,441	67.0%	615,235	33.0%	1,865,676
July 2006	819,000	39.6%	1,250,685	60.4%	1,392,000	67.3%	677,685	32.7%	2,069,685
January 2007	922,000	39.3%	1,425,850	60.7%	1,548,000	65.9%	799,850	34.1%	2,347,850
July 2007	1,003,000	38.9%	1,572,700	61.1%	1,661,000	64.5%	914,700	35.5%	2,575,700
January 2008	1,065,000	37.6%	1,777,500	62.4%	1,756,000	61.7%	1,087,500	38.3%	2,843,500
July 2008	1,116,000	37.7%	1,843,500	62.3%	1,755,000	59.3%	1,204,500	40.7%	2,959,500



Retail fixed broadband access in United Kingdom, July 2008

	New entrants DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means								
	Incumbent's DSL lines	Own network	Full LLL	Shared access	Bitstream access	Retail	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	182,000	0	600	0	0	111,500	112,100	0	0	0	0	0	0	0	530	530	3,000	419,000	0	0	0	0	0	0	422,000
January 2003	298,000	0	2,184	94	0	288,000	291,278	0	0	0	0	0	0	0	1,778	1,778	2,500	736,000	0	0	0	0	0	2,500	741,000
July 2003	563,348	0	3,567	2,305	0	530,298	536,170	0	0	0	0	0	0	0	2,185	2,185	2,500	1,098,000	0	0	0	0	0	3,300	1,103,800
January 2004	834,406	0	5,418	2,812	65,000	866,973	870,203	0	0	0	0	2,500	0	0	2,500	2,500	1,369,000	0	0	0	3,500	0	0	0	1,369,000
July 2004	1,114,974	0	7,486	5,949	224,941	1,389,731	1,338,997	0	0	0	0	2,500	0	0	2,500	2,500	1,634,000	0	0	0	3,500	0	0	0	1,640,000
January 2005	1,536,902	0	10,899	16,302	341,897	2,227,051	2,166,749	0	0	0	0	2,500	0	0	2,500	2,500	1,825,000	0	0	0	3,500	0	0	0	1,831,000
July 2005	2,002,405	0	38,418	34,722	593,622	3,114,835	3,071,597	0	0	0	0	0	0	0	0	2,500	2,270,609	0	0	0	6,000	0	0	0	2,278,109
January 2006	2,450,578	0	99,022	92,978	876,008	3,746,935	3,644,943	0	0	0	0	0	0	0	0	2,500	2,614,695	0	0	0	6,000	0	0	0	2,623,195
July 2006	2,720,000	60,864	163,086	417,079	1,010,891	4,333,953	4,284,903	0	0	0	0	0	0	0	0	2,500	2,992,300	0	0	0	6,000	0	0	0	2,998,800
January 2007	3,102,786	70,272	283,350	1,031,732	1,018,961	4,550,197	4,502,512	0	0	0	0	0	0	0	0	2,500	3,058,500	0	0	0	6,000	0	0	0	3,067,000
July 2007	3,717,759	78,482	687,707	1,735,860	946,599	4,697,038	4,546,594	0	0	0	0	0	0	0	0	2,500	3,192,400	0	0	0	6,000	0	0	0	3,200,900
January 2008	4,030,016	84,320	1,033,145	2,566,665	803,856	5,113,903	5,228,488	0	0	0	0	0	0	0	0	2,500	3,363,000	0	0	0	6,000	0	0	0	3,371,500
July 2008	4,278,906	89,874	1,347,518	3,413,116	806,610	5,175,743	5,322,863	0	0	0	0	0	0	0	0	28,000	3,563,400	0	0	0	6,000	0	0	0	3,569,400

	Incumbents broadband	Incumbents market share	New entrants broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	182,530	25.5%	534,100	74.5%	254,100	41.0%	422,530	59.0%	716,630
January 2003	300,778	22.6%	1,032,278	77.4%	590,278	44.3%	742,778	55.7%	1,333,056
July 2003	656,633	26.6%	1,639,970	74.4%	1,099,518	49.6%	1,105,985	60.1%	2,205,503
January 2004	836,906	26.4%	2,335,203	73.6%	1,804,609	56.9%	1,367,500	43.1%	3,172,109
July 2004	1,117,474	25.4%	3,278,087	74.6%	2,753,061	62.6%	1,642,500	37.4%	4,395,561
January 2005	1,631,402	25.1%	4,697,749	74.9%	4,203,651	64.5%	1,933,500	31.5%	6,137,151
July 2005	2,002,405	24.8%	6,060,706	75.2%	5,784,002	71.7%	2,279,109	28.3%	8,063,111
January 2006	2,450,578	24.8%	7,438,049	75.2%	7,265,521	73.6%	2,623,105	26.5%	9,888,626
July 2006	2,720,000	23.4%	8,895,703	76.6%	8,704,903	74.9%	2,910,800	25.1%	11,615,703
January 2007	3,102,786	23.7%	9,999,512	76.3%	10,035,298	76.6%	3,067,000	23.4%	13,102,298
July 2007	3,717,759	25.7%	10,746,494	74.3%	11,263,353	77.9%	3,200,900	22.1%	14,464,253
January 2008	4,030,016	25.8%	11,599,989	74.2%	12,258,505	78.4%	3,371,500	21.6%	15,630,005
July 2008	4,278,906	25.6%	12,431,263	74.4%	13,111,769	78.5%	3,598,400	21.5%	16,710,169

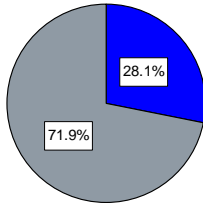


Retail fixed broadband access in Bulgaria, July 2008

Incumbent's DSL lines	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means							
	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2007	95,036	0	0	0	0	30	30	0	0	139	0	0	315	0	454	0	64,918	0	6,920	1	0	178,218	0	250,057
July 2007	121,298	0	2	2	0	51	55	0	0	0	0	0	488	0	468	1,067	67,392	503	12,753	2	0	234,828	0	316,545
January 2008	162,101	0	0	0	0	1,655	1,655	0	0	589	0	0	2	0	591	1,784	81,719	461	2,319	3	0	319,593	0	415,879
July 2008	204,858	0	0	0	0	0	0	0	0	522	0	0	12	0	534	3,139	101,531	642	8,937	0	0	410,752	0	524,981

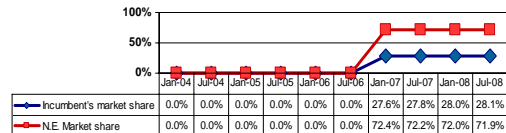
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share- DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2004	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2004	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2005	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2005	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2006	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2006	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2007	95,490	27.6%	250,057	72.4%	95,066	27.5%	250,511	72.5%	345,577
July 2007	121,766	27.6%	316,600	72.2%	121,353	27.7%	317,013	72.3%	438,366
January 2008	162,692	28.0%	417,534	72.0%	163,756	28.2%	416,470	71.8%	580,226
July 2008	205,392	28.1%	524,981	71.9%	204,858	28.0%	525,515	72.0%	730,373

BB lines Mkt share (Bulgaria / July 2008)

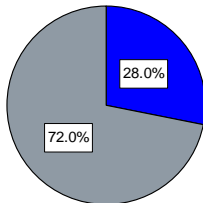


■ Incumbents ■ N.E.

Broadband lines by operator (Bulgaria)

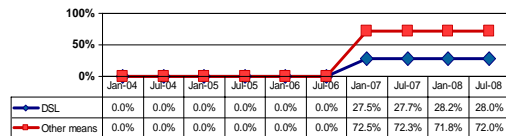


BB lines by technology (Bulgaria / July 2008)

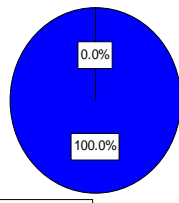


■ DSL ■ Other

Broadband lines by technology (Bulgaria)

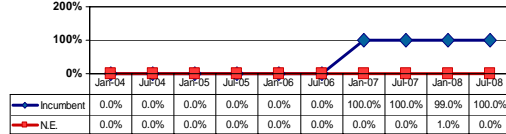


DSL lines Mkt share (Bulgaria / July 2008)

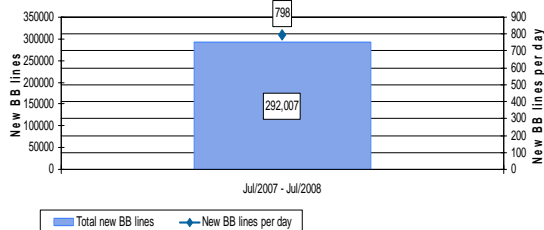


■ Incumbents ■ N.E.

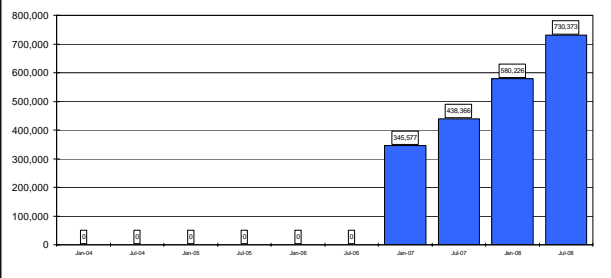
DSL lines by operator (Bulgaria)



New broadband lines per year (Bulgaria)



Broadband lines (Bulgaria)

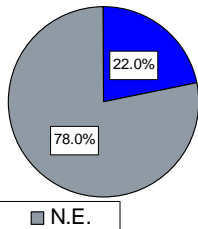


Retail fixed broadband access in Romania, July 2008

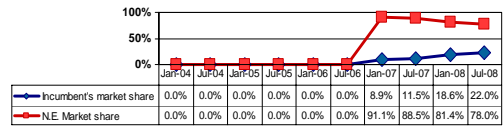
	New entrants' DSL lines on PSTN					Incumbents' access lines by other means							New entrants' access lines by other means											
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January 2007	95,834	1,490	729	0	0	2,219	0	0	302	131	0	0	0	0	433	16,735	393,514	71	52,705	131	0	525,782	522	988,938
July 2007	173,252	1,135	1,015	0	0	2,150	0	0	109	0	0	883	0	883	983	31,441	410,076	129	66,958	231	0	825,957	738	1,334,783
January 2008	362,628	932	991	0	0	1,923	0	0	698	134	0	0	0	832	820	31,702	440,439	28	82,328	199	0	1,028,954	764	1,583,650
July 2008	508,026	710	1,055	0	0	1,765	0	0	411	256	0	0	0	667	667	30,977	508,490	41	88,671	481	0	1,171,145	782	1,799,785

	Incumbents broadband	Incumbents market share	New entrants broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2003	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2004	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2004	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2005	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2005	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2006	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
July 2006	0	n.a.	0	n.a.	0	n.a.	0	n.a.	0
January 2007	96,267	8.9%	991,157	91.1%	98,053	9.0%	989,371	91.0%	1,087,424
July 2007	174,235	11.5%	1,336,533	88.5%	175,402	11.9%	1,335,766	88.4%	1,511,168
January 2008	363,448	18.6%	1,585,573	81.4%	364,551	18.7%	1,584,470	81.3%	1,949,021
July 2008	508,693	22.0%	1,801,550	78.0%	509,791	22.1%	1,800,452	77.9%	2,310,243

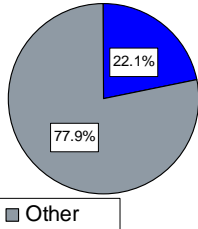
BB lines Mkt share (Romania / July 2008)



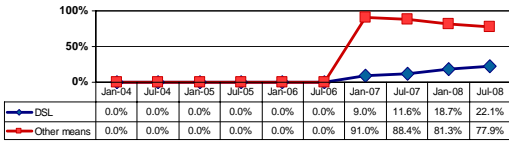
Broadband lines by operator (Romania)



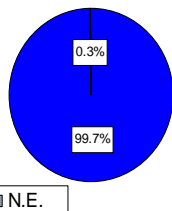
BB lines by technology (Romania / July 2008)



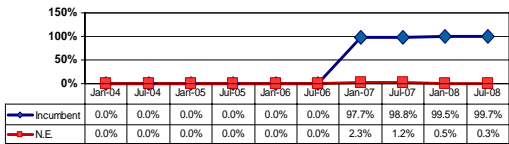
Broadband lines by technology (Romania)



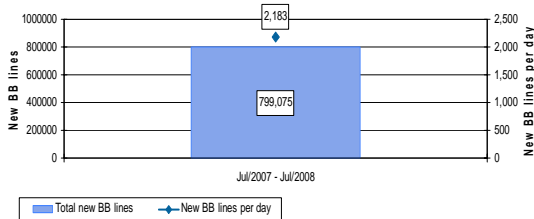
DSL lines Mkt share (Romania / July 2008)



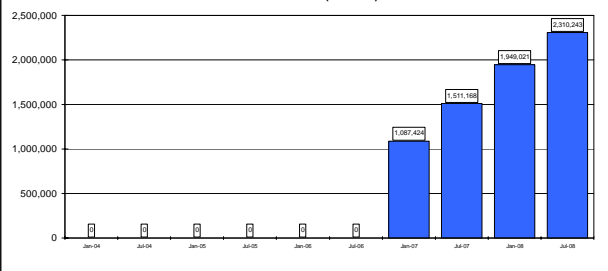
DSL lines by operator (Romania)



New broadband lines per year (Romania)



Broadband lines (Romania)



Data on national population used in this report

	2002	2003	2004	2005	2006	2007	2008
BE	10 309 700	10 355 800	10 396 000	10 445 900	10 511 400	10 511 400	10 584 534
BG					7 718 750	7 679 290	7 679 290
CZ	10 206 400	10 203 300	10 211 500	10 220 600	10 251 100	10 287 189	10 287 189
DK	5 368 400	5 383 500	5 397 600	5 411 400	5 427 500	5 447 084	5 447 084
DE	82 440 300	82 536 700	82 531 700	82 500 800	82 455 800	82 310 995	82 314 906
EE	1 361 200	1 356 000	1 350 600	1 347 000	1 344 700	1 342 409	1 342 409
EL	10 988 000	11 006 400	11 041 100	11 073 000	11 122 900	11 170 957	11 171 740
ES	40 850 500	41 550 600	42 345 300	43 038 000	43 758 300	44 474 631	44 474 631
FR	59 342 100	59 635 000	59 900 700	60 561 200	62 886 200	63 392 140	63 392 140
IE	3 899 900	3 963 600	4 027 500	4 109 200	4 209 000	4 209 000	4 314 634
IT	56 993 700	57 321 100	57 888 200	58 462 400	58 751 700	59 131 287	59 131 287
CY	705 500	715 100	730 400	749 200	766 400	778 537	778 684
LV	2 345 800	2 331 500	2 319 200	2 306 400	2 294 600	2 281 305	2 281 305
LT	3 475 600	3 462 600	3 445 900	3 425 300	3 403 300	3 384 879	3 384 879
LU	444 100	448 300	451 600	455 000	459 500	459 500	476 187
HU	10 174 900	10 142 400	10 116 700	10 097 500	10 076 600	10 064 000	10 066 158
MT	394 600	397 300	399 900	402 700	404 400	406 020	407 810
NL	16 105 300	16 192 600	16 258 000	16 305 500	16 335 500	16 357 992	16 357 992
AT	8 038 900	8 082 000	8 114 000	8 206 500	8 265 900	8 298 923	8 298 923
PL	38 632 500	38 218 500	38 190 600	38 173 800	38 157 100	38 125 479	38 125 479
PT	10 329 300	10 407 500	10 474 700	10 529 300	10 569 600	10 599 095	10 599 095
RO					21 610 213	21 565 119	21 565 119
SI	1 994 000	1 995 000	1 996 400	1 997 600	2 003 400	2 010 377	2 010 377
SK	5 379 000	5 379 200	5 380 100	5 384 800	5 389 200	5 393 637	5 393 637
FI	5 194 900	5 206 300	5 219 700	5 236 600	5 255 600	5 276 955	5 276 955
SE	8 909 100	8 940 800	8 975 700	9 011 400	9 047 800	9 113 257	9 113 257
UK	59 139 900	59 328 900	59 651 500	60 034 500	60 416 200	60 798 438	60 852 828
EU 27	453 023 600	454 560 000	456 814 600	459 485 600	492 892 663	494 869 895	495 128 529

Source: Eurostat

ANNEX 3: RETAIL MOBILE BROADBAND LINES

Table 4 shows how mobile broadband active users in the EU were distributed between the Member States on 1 July 2008. All available mobile terminals are shown for comparison. Mobile BB dedicated data services cards/modems/keys are shown separately.

Active mobile BB users/subscribers (lines) have been presented for the first time. Data is missing in part for some Member States, while some countries failed to provide any data. In addition, it appears that data provided is not of the same quality for all countries.

Table 4 Retail mobile broadband lines in the EU by country

July 2008	Mobile active users - (access to dedicated data services via modems/cards/keys and through mobile handsets)	Mobile BB dedicated data services cards/modems/keys only	All available terminals, SIM cards
BE	30 996	30 996	n.a
BG	127 907	n.a	2 160 667
CZ	256 953	n.a	n.a
DK	561 869	163 291	950 249
DE	9 782 000	n.a	14 941 000
EE	61 747	n.a	500 000
EL	1 227 022	n.a	n.a
ES	8 693 310	876 906	16 400 000
FR	n.a.	n.a	n.a
IE	222 330	n.a	n.a
IT	7 500 000	n.a	25 200 000
CY	6 059	n.a	6 059
LV	136 590	n.a	1 843 048
LT	212 659	80 229	470 645
LU	34 706	n.a	482 536
HU	220 675	n.a	n.a
MT	36 716	n.a	n.a
NL	n.a.	n.a	n.a
AT	780 000	n.a	3 300 000
PL	785 751	n.a	9 480 497
PT	964 943	n.a	3 699 962
RO	939 859	n.a	1 900 000
SI	323 333	n.a	1 875 794
SK	287 595	89 554	661 085
FI	307 146	n.a	1 674 000
SE	540 000	n.a	9 690 000
UK	n.a.	n.a	n.a
EU	34 040 166	n.a	n.a

Figure 25 shows the distribution of mobile broadband users (lines) by country as of 1 July 2008, whereas Figure 26 shows the penetration rate of mobile broadband active users (i.e. users using broadband dedicated data services via data modems/cards/keys and other active 3G equivalent users using mobile terminals in last 90 days) per 100 population.

Figure 25 EU countries by number of mobile broadband lines (active users/subscribers)

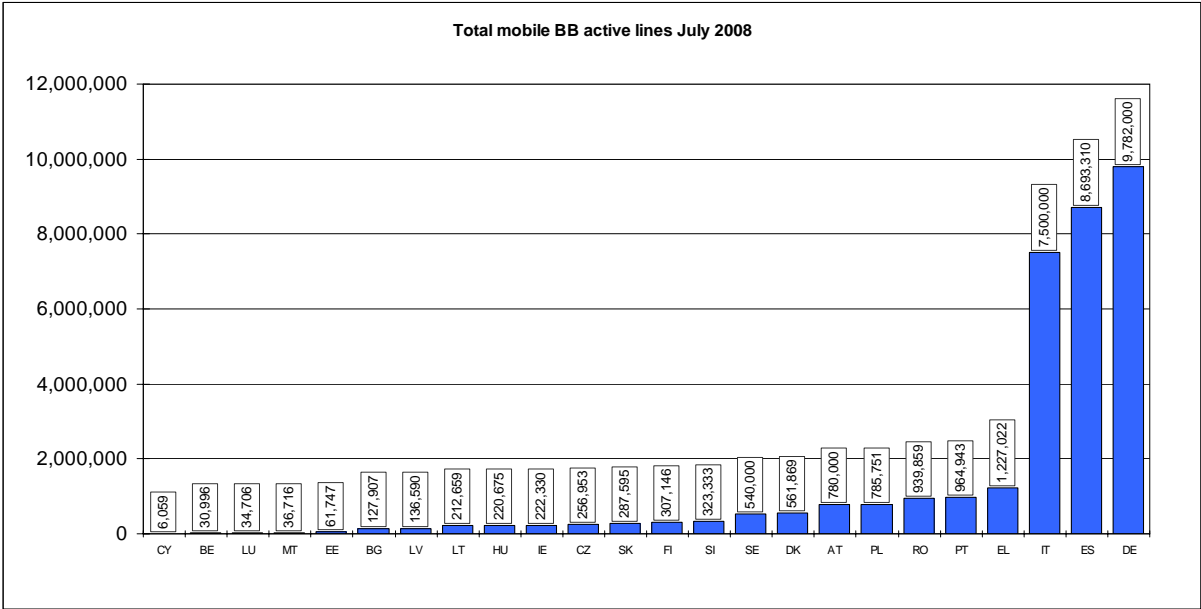
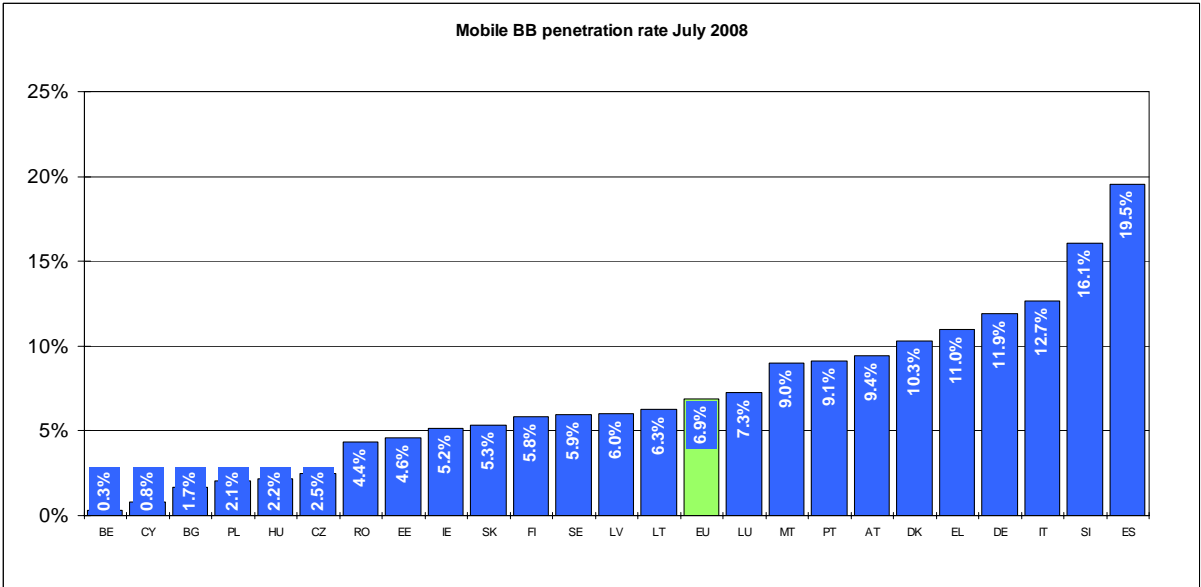


Figure 26 EU countries by number of mobile broadband users per 100 population



However, if the penetration rate of mobile broadband active users accessing advanced data services via dedicated data modems/cards/keys per 100 population only was measured, mobile broadband penetration rate would be significantly lower (examples for only few countries are available - DK 3%, LT 2.4%, ES 2%, SK 1.7%, BE 0.3%). This type of mobile broadband usage is considered to be more comparable to the usage provided by the fixed broadband technologies.

ANNEX 4: RETAIL FIXED BROADBAND LINES BY SPEEDS

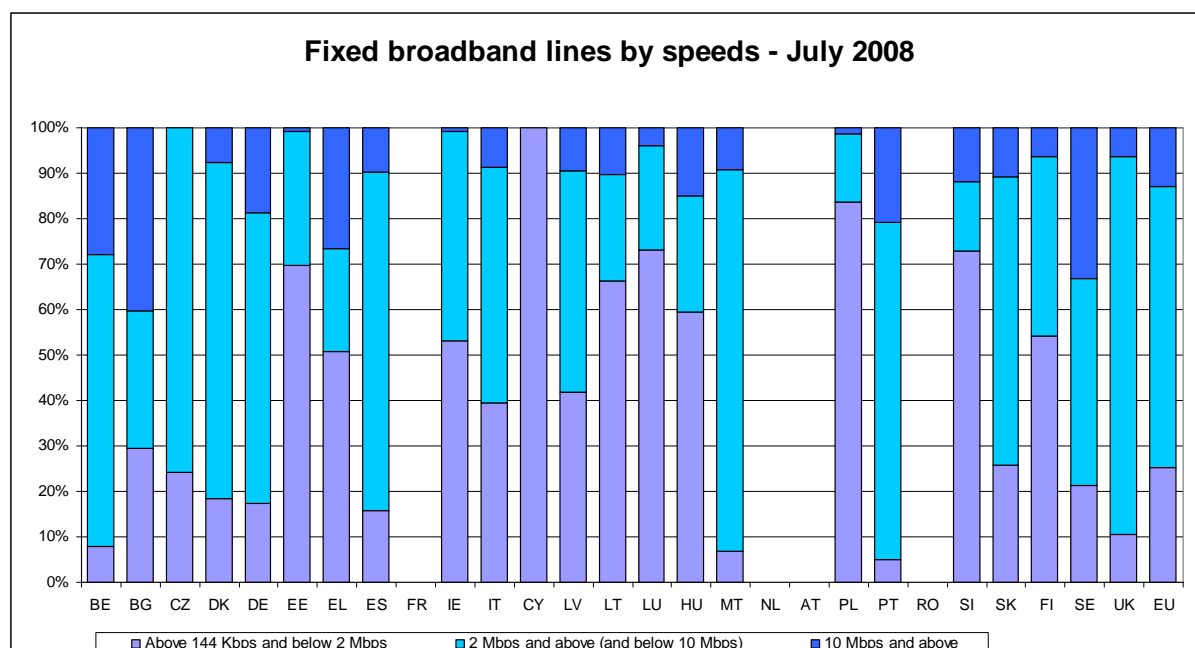
Table 5 shows how the fixed broadband lines have been distributed by various speeds as of 1 July 2008. These lines have been presented for the first time. Data is missing in part for some Member States, while some countries failed to provide any data (France, the Netherlands, Austria and Romania). About three quarters of retail lines available in July 2008 are presented above.

Table 5 Fixed broadband lines by speeds in the EU by country

	BE	BG	CZ	DK	DE	EE	EL	ES	FR	IE	IT	CY	LV	LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK	Total
Above 144 Kbps and below 2 Mbps	214165	214337	395000	359141	3740379	221074	632045	1379320		448177	4228365	124128	150967	361672	98033	939283	5756			3054478	85310		279695	132789	834657	618500	1740000	20257271
2 Mbps and above (and below 10 Mbps)	1748864	221946	1231330	1433136	13827274	93563	282576	6488191		387736	5579358	135	175701	128431	30676	402340	70316			544490	1238756		57815	328294	609214	1320000	13790000	49990142
10 Mbps and above	759443	294091		150282	4050647	2332	331353	841320		5677	919928	1	34103	55979	5161	235314	7895			46649	348246		45809	55852	98538	960000	1070000	10318420
	2722472	730374	1626330	1942559	21618300	316969	1245974	8708831	0	841590	10727951	124264	360771	546082	133870	1576937	83767	0	0	3645617	1672312	0	383319	516835	1542409	2898500	16600000	80565833

Figure 27 and Table 6 show the distribution of fixed broadband lines by speeds by country on 1 July 2008.

Figure 27 EU countries by speeds – retail fixed broadband lines



No data for FR, NL, AT and RO.

Table 6 EU countries by speeds – retail fixed broadband lines

	Above 144 Kbps and below 2 Mbps	2 Mbps and above (and below 10 Mbps)	10 Mbps and above
BE	7.9%	64.2%	27.9%
BG	29.3%	30.4%	40.3%
CZ	24.3%	75.7%	0.0%
DK	18.5%	73.8%	7.7%
DE	17.3%	64.0%	18.7%
EE	69.7%	29.5%	0.7%
EL	50.7%	22.7%	26.6%
ES	15.8%	74.5%	9.7%
FR	#DIV/0!	#DIV/0!	#DIV/0!
IE	53.3%	46.1%	0.7%
IT	39.4%	52.0%	8.6%
CY	99.9%	0.1%	0.0%
LV	41.8%	48.7%	9.5%
LT	66.2%	23.5%	10.3%
LU	73.2%	22.9%	3.9%
HU	59.6%	25.5%	14.9%
MT	6.9%	83.9%	9.2%
NL	#DIV/0!	#DIV/0!	#DIV/0!
AT	#DIV/0!	#DIV/0!	#DIV/0!
PL	83.8%	14.9%	1.3%
PT	5.1%	74.1%	20.8%
RO	#DIV/0!	#DIV/0!	#DIV/0!
SI	73.0%	15.1%	12.0%
SK	25.7%	63.5%	10.8%
FI	54.1%	39.5%	6.4%
SE	21.3%	45.5%	33.1%
UK	10.5%	83.1%	6.4%
EU	25.1%	62.0%	12.8%