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## **COMMUNICATIONS COMMITTEE**

### **Working Document**

**Subject: Broadband access in the EU: situation at 1 July 2007**

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European Commission  
Information Society and Media



## Broadband access in the EU as at 1 July 2007

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<b>DEFINITIONS</b>
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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

## EU OVERVIEW

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 2007. Data for the Netherlands and Austria refer to 1 April 2007.

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.

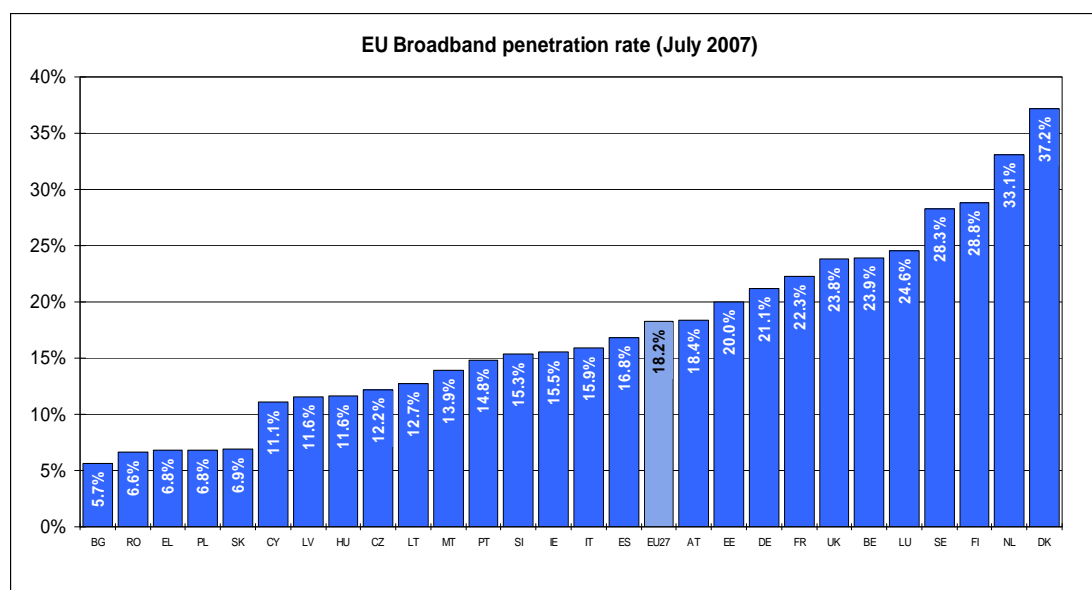
The charts and tables in this document only include fixed broadband lines. Data on 3G mobile subscribers are only available for a limited number of countries and have not been included.

This report includes information from all 27 Member States, including Bulgaria and Romania.

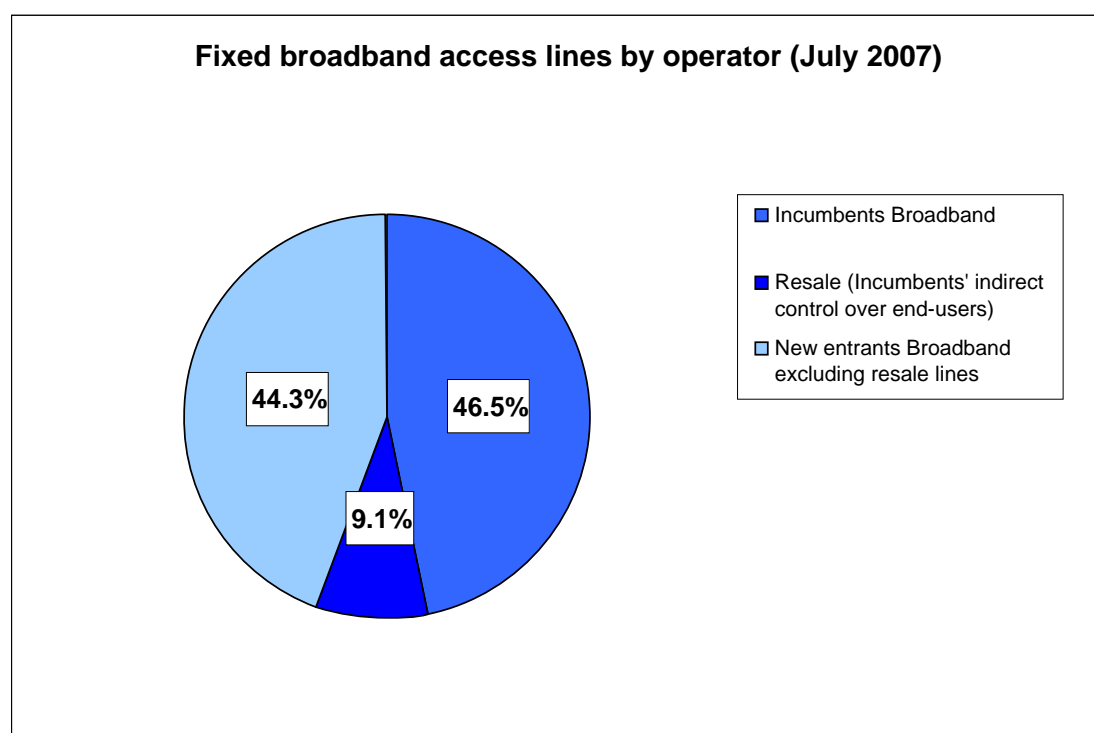
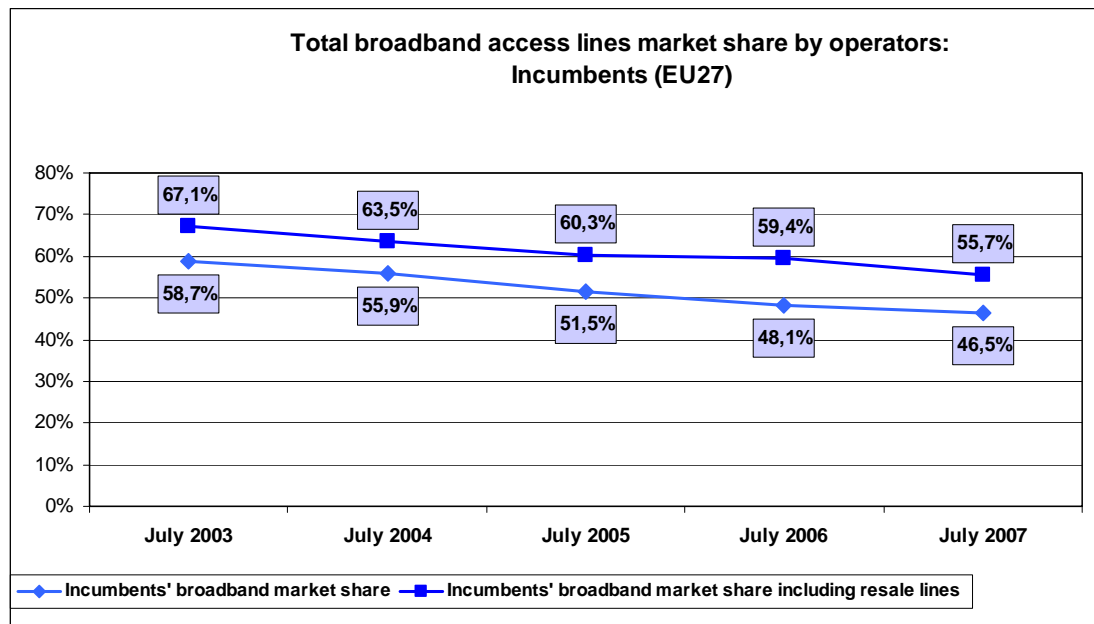
Data for Bulgaria and Romania are included where possible. Given the non-availability of data pre-ceding 1 January 2007, no trends could be established for Bulgaria and Romania.

There were 90 207 122 (88 347 916 without Bulgaria and Romania) fixed broadband lines in the EU as of 1 July 2007, a 12.7% increase since 1 January 2007. Of these lines, 72 478 202 were DSL lines (80.3% of total) and 17 728 920 (19.7%) were provided using other transmission means, predominately cable modem.

At EU level the penetration rate, which measures the number of broadband lines per 100 population, is 18.2%, up 3.3 percentage points from 14.9% a year ago.



Incumbent fixed operators provided 46.5% of these lines, continuing the downward trend recorded since 2003. This figure was 55.9% in July 2004, 51.5% in July 2005 and 48.1% in July 2006.



## RETAIL FIXED BROADBAND LINES

In the period between July 2006 and July 2007 a total of 21 555 543 new broadband lines were added, an increase of 31.4%. Although in relative terms this growth is lower than in the previous twelve month period (42.0%), in absolute numbers it remains higher than the growth recorded between July 2005 and July 2006 (20 301 567 lines). For comparison, new broadband lines added in the period between July 2006 and July 2007 excluding Bulgaria and Romania amounted to 19 696 337 lines, which reveals a deceleration of growth in EU25.

In the period July 2006-July 2007, 82.1% (76.4% with Bulgaria and Romania) of the new lines were by means of xDSL technologies, while 17.9% (23.6% with Bulgaria and Romania) were connections using other type of technologies, which represents a 2.7 percentage point growth of access lines by other means compared to July 2005-July 2006 period (84.8% of new lines were DSL and 15.2% were non-DSL lines).

Table 1 shows how the broadband lines in the EU were distributed between the EU Member States at 1 July 2004, 1 January 2005, 1 July 2005, 1 January 2006, 1 July 2006, 1 January 2007 and 1 July 2007.

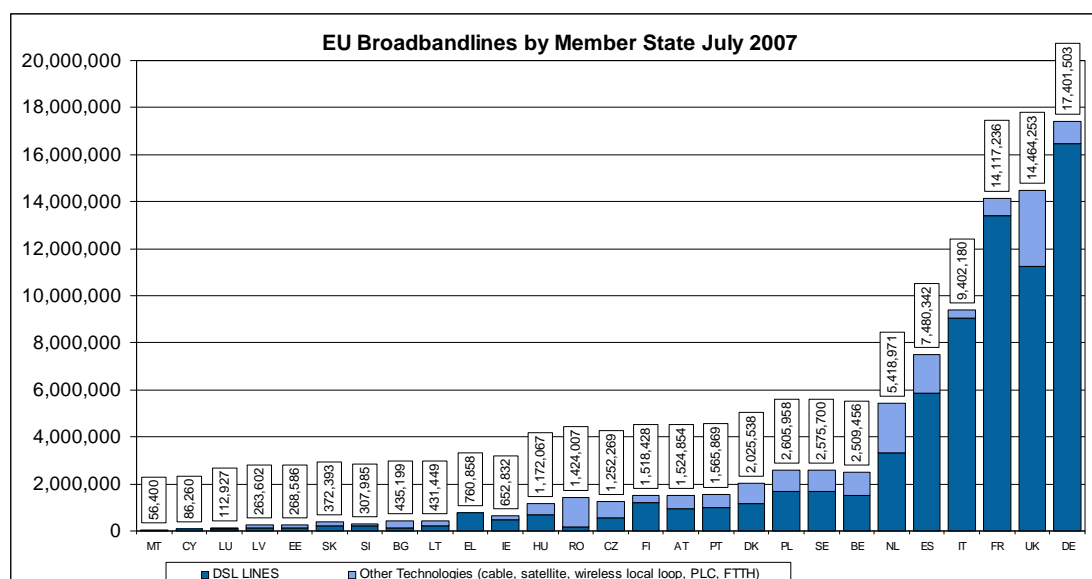
**Table 1 Retail broadband lines in the EU by country**

	July 2004	January 2005	July 2005	January 2006	July 2006	January 2007	July 2007
BE	1 444 673	1 619 756	1 804 133	2 010 584	2,172,246	2 354 850	2,509,456
BG	N/A	N/A	N/A	N/A	N/A	345 577	435,199
CZ	121 000	228 200	436 000	650 000	860,508	1 087 520	1,252,269
DK	921 477	1 039 378	1 188 431	1 337 587	1,606,531	1 703 605	2,025,538
DE	5 415 247	6 905 159	8 435 369	10 558 100	12,608,400	14 902 200	17,401,503
EE	102 771	138 617	150 246	179 104	222,987	246 887	268,586
EL	25 386	51 455	93 583	160 113	297,090	487 889	760,858
ES	2 767 627	3 452 706	4 240 339	5 026 933	5,784,862	6 652 665	7,480,342
FR	4 915 487	6 793 249	8 322 442	9 950 561	11,297,543	12 816 164	14,117,236
IE	67 530	138 116	177 121	276 860	372,172	517 324	652,832
IT	3 503 497	4 701 232	5 521 374	6 896 696	7,690,503	8 497 422	9,402,180
CY	14 520	18 967	18 967	47 090	50,566	68 014	86,260
LV	33 904	56 448	85 381	131 329	155,738	241 550	263,602
LT	88 279	129 053	170 619	234 046	286,059	359 564	431,449
LU	25 334	37 019	53 049	70 436	80,105	98 765	112,927
HU	257 016	365 741	457 557	619 712	760,271	995 784	1,172,067
MT	13 738	38 054	41 551	51 289	51,943	50 493	56,400
NL	2 372 529	3 084 561	3 642 315	4 113 573	4,741,829	5 192 200	5,418,971
AT	707 725	827 675	937 830	1 176 183	1,310,096	1 440 180	1,524,854
PL	219 901	536 738	710 726	1 015 841	1,504,274	1 994 460	2,605,958
PT	664 045	854 130	1 054 553	1 222 301	1,359,744	1 470 810	1,565,869
RO	N/A	N/A	N/A	N/A	N/A	1 087 424	1,424,007
SI	76 339	118 031	156 669	196 686	228,962	279 660	307,985
SK	14 485	51 869	80 385	137 927	215,303	279 635	372,393
FI	572 100	779 929	974 614	1 171 363	1,308,459	1 426 351	1,518,428
SE	1 131 400	1 385 100	1 533 647	1 865 676	2,069,685	2 347 850	2,575,700
UK	4 395 561	6 137 151	8 063 111	9 888 626	11,615,703	13 102 298	14,464,253
<b>EU</b>	<b>29 871 571</b>	<b>39 488 334</b>	<b>48 350 012</b>	<b>58 988 616</b>	<b>68,651,579</b>	<b>80 047 141</b>	<b>90,207,122</b>

DK – data includes 170,262 subscriptions to access on multiple locations (Hotspots)

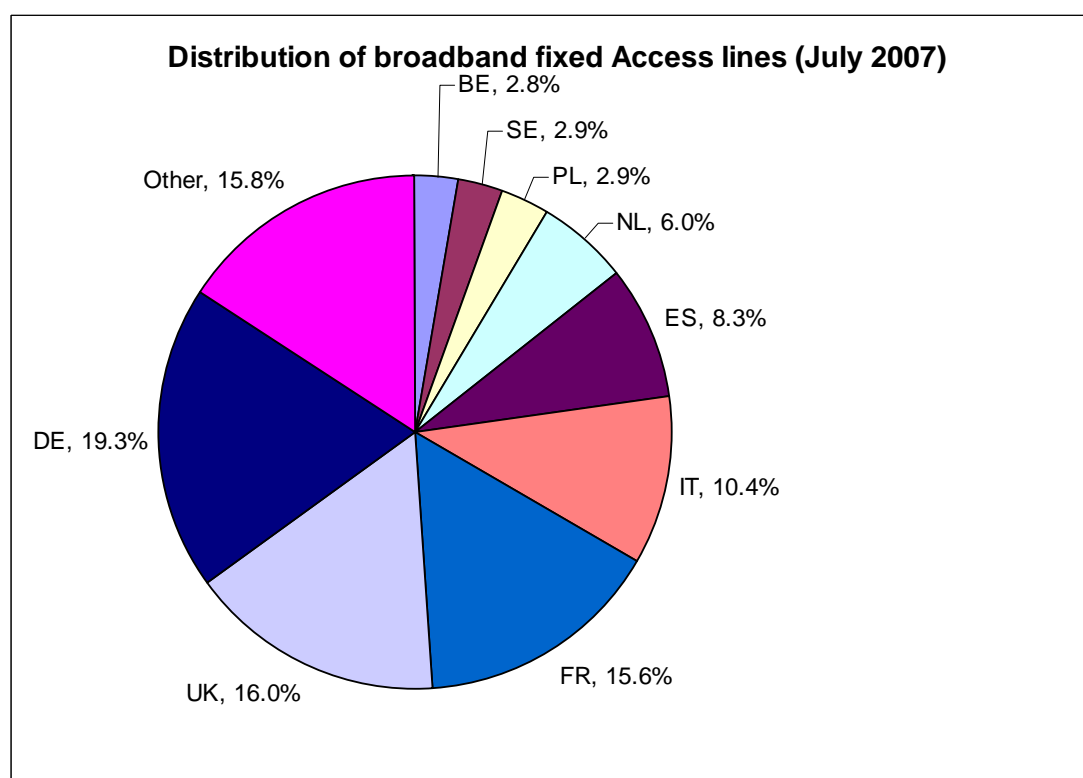
Figure 1 shows the distribution of broadband lines by country, Figure 2 presents this distribution in percentage terms at 1 July 2007, and Figure 3 shows the growth rate since January 2003.

**Figure 1 EU countries by number of broadband lines**



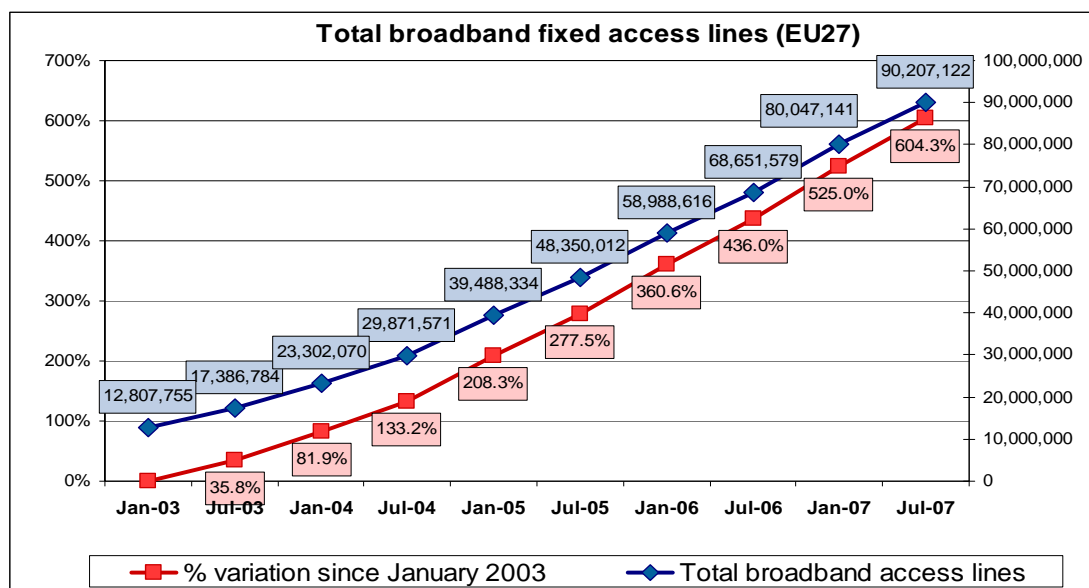
Germany accounts for 19.3% of all broadband lines, followed by the UK and France, with 16.0% and 15.6% respectively. These three countries represent 50.9% of all EU broadband connections. Italy, Spain and the Netherlands follow. The new Member States (EU12) contribute 8.7 million broadband lines, which represent 9.6% of the total, 3.3 points up from July 2006.

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





**Figure 3 Growth trend since January 2003**

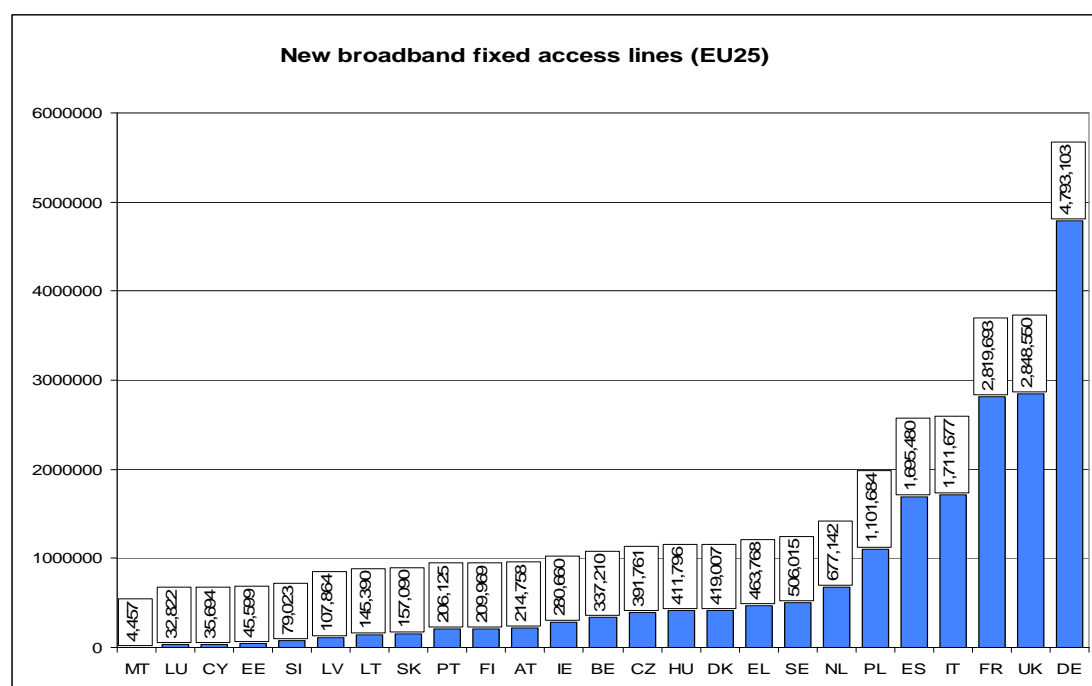


The number of broadband lines added per day in the period between July 2006 and July 2007 was 53 963 (without Bulgaria and Romania), i.e. 1 658 connections per day less than 55 621, the number of new lines per day added between July 2005 and July 2006. In other words, in July 2006-July 2007 there were 3.0% fewer lines added every day than a year before.

The absolute growth, without Bulgaria and Romania, in the first half of 2007 – 9 733 776 lines - was 3rd highest semestral increase since January 2003.

Figure 4 shows that Germany, the largest European economy, added 4.8 million new lines in the period between July 2006 and July 2007. Germany was followed by other large Member States (UK, France, Italy and Spain).

**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. Denmark is the leader with 7.7 lines per 100 inhabitants, followed by Luxembourg with 7.1 and Ireland with 6.7 lines per 100 inhabitants.

**Figure 5 New broadband fixed lines per 100 population**

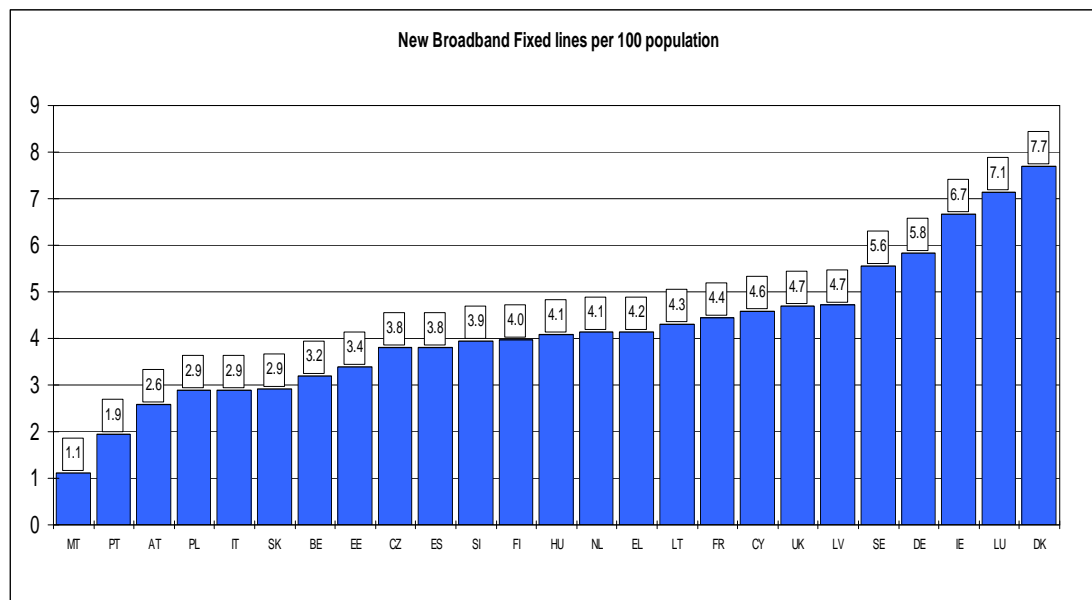


Figure 6 shows the penetration rate of broadband measured as the number of broadband lines per 100 population. Two countries, Denmark (37.2%) and the Netherlands (33.1%) remain the top performers, with Finland and Sweden approaching rapidly the 30% threshold, while Luxembourg managed to overtake Belgium. UK, France, Germany and Estonia also exceed the 20% mark. At EU level the penetration rate is 18.2%, up 3.3 percentage points from 14.9% a year ago.

**Figure 6 Penetration rate. Lines per 100 population**

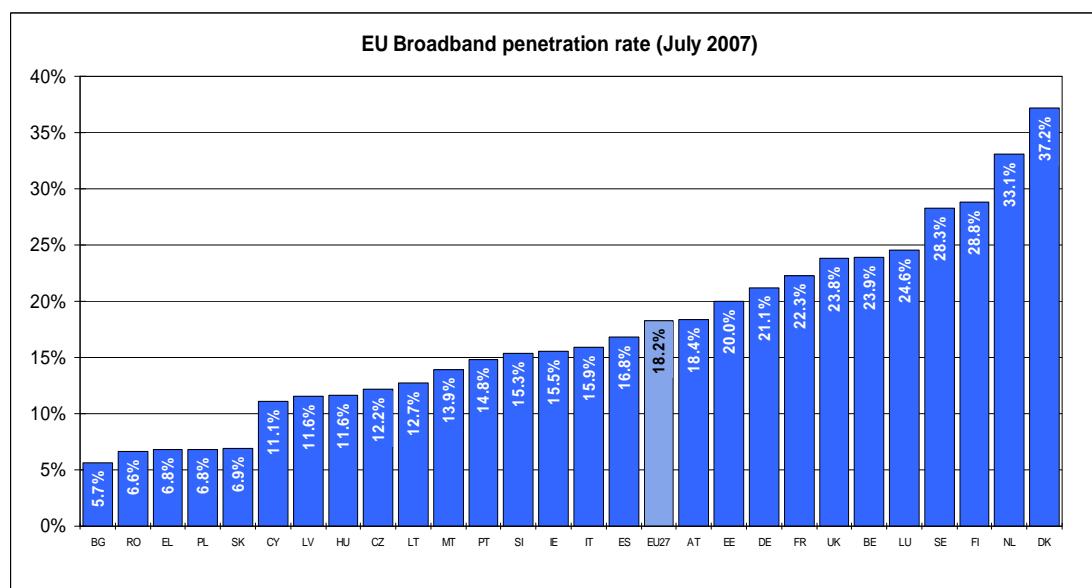


Figure 7 combines the penetration rate as of July 2007 and the growth of this indicator in percentage points during the period between July 2006 and July 2007.

Growth was the highest in Denmark, followed by Luxembourg and Ireland. Nine other Member States exceed the EU25 average growth, which stood at 4 percentage points.

**Figure 7 Penetration rate and speed of progress**

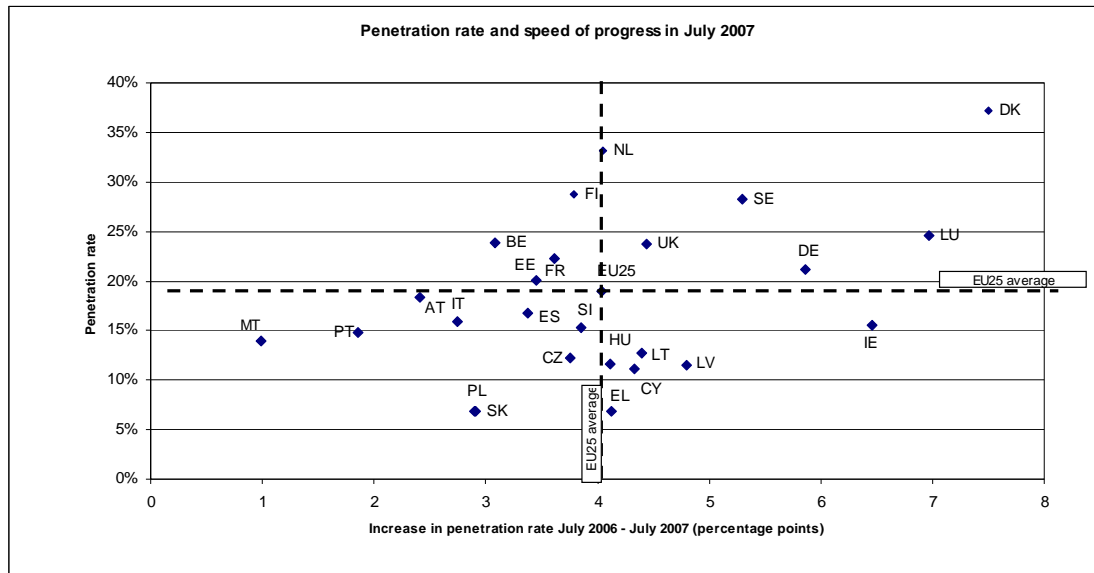
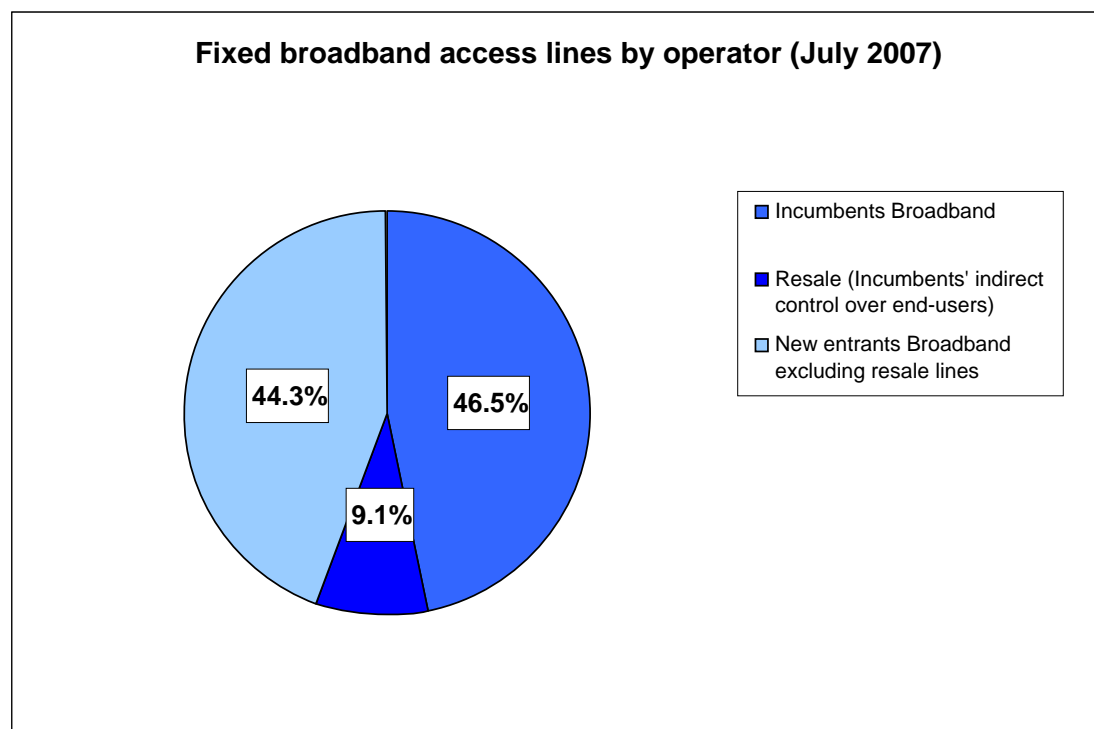


Figure 8 shows the percentage of broadband lines provided by the incumbent fixed operators and by the other operators. Figure 9 displays the trend in the percentage of broadband lines provided by the incumbent fixed operators. Simple resale of lines by new entrants is singled out in both figures.

**Figure 8 Broadband lines market share**



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

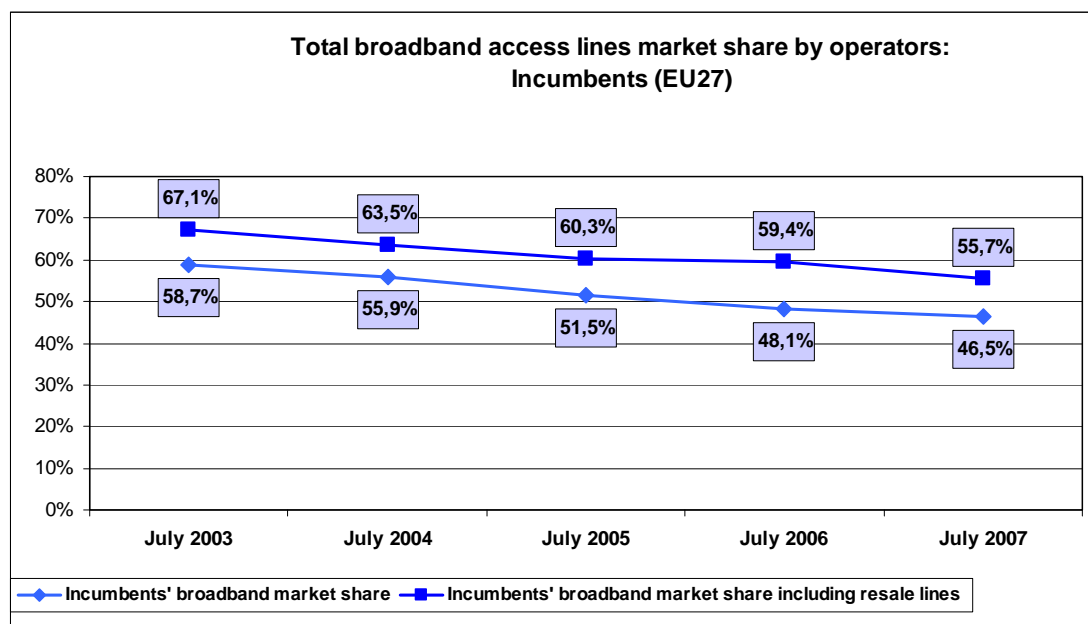
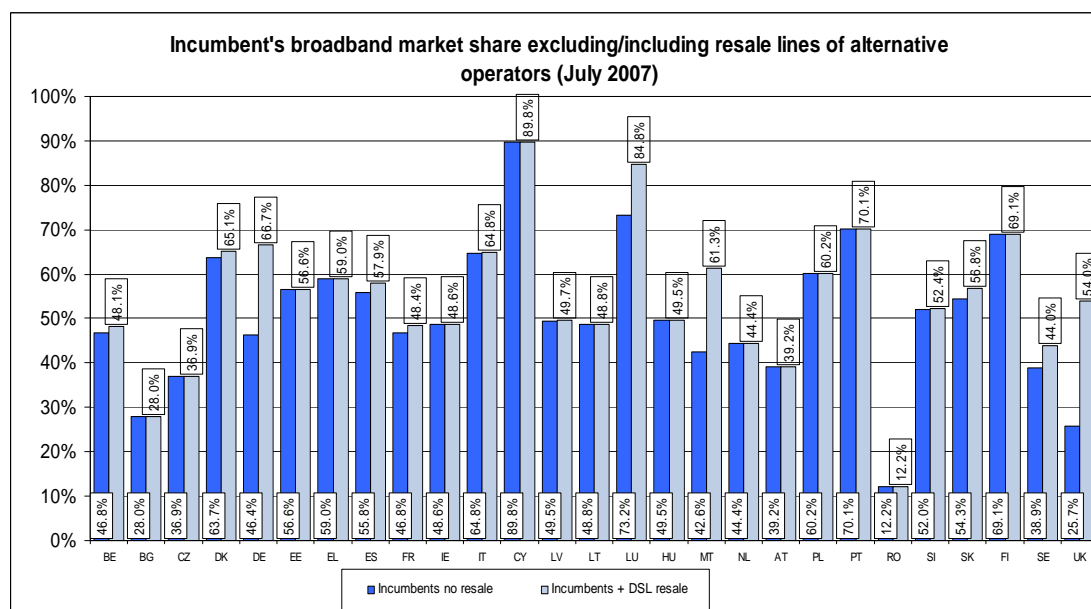


Figure 10 shows the degree of likelihood of incumbents' control over the end-users. In particular, the UK (with 28.3 percentage points difference between the market share of the incumbent excluding and including resale lines of alternative operators), Germany (with 20.3% points), Malta (with 18.7% points) and Luxembourg (with 11.6% points) are good examples of the incumbents' extended market power.

**Figure 10 Market shares of incumbents, excluding and including resale**



## DSL LINES

There were 72 181 039 (72 478 202 with Bulgaria and Romania) DSL lines in the EU as of 1 July 2007, a 28.9% increase since 1 July 2006.

In the period between July 2006 and July 2007 a total of 16 166 812 (16 463 975 with Bulgaria and Romania) new DSL lines were added. This represents 1 051 923 lines less than 17 218 735, the number of new lines installed in the period between July 2005 and July 2006. This confirms the signs of growth slowdown in DSL segment, the trend revealed towards the end of 2006.

Incumbent fixed operators provided 56.1% of these lines, down from 57.3% in July 2006 and 62.3% in July 2005.

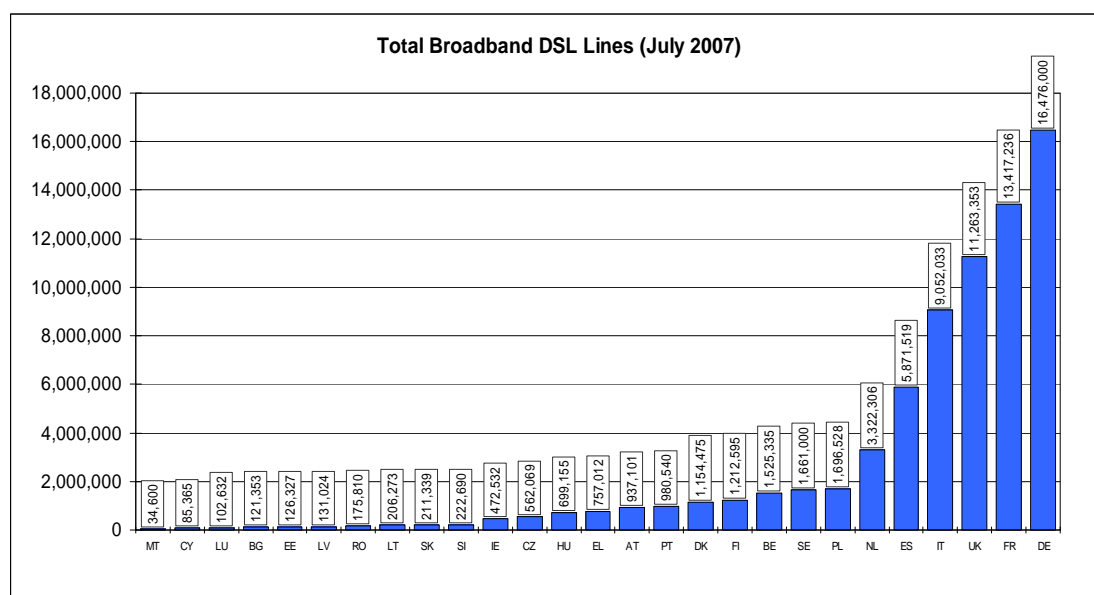
Table 2 shows how the DSL lines in the EU were distributed between the EU Member States at 1 July 2004, 1 January 2005, 1 July 2005, 1 January 2006, 1 July 2006, 1 January 2007 and 1 July 2007.

**Table 2 DSL retail lines in the EU by country**

	July 2004	January 2005	July 2005	January 2006	July 2006	January 2007	July 2007
BE	889 294	996 118	1 113 641	1 247 471	1,356,007	1 468 021	1,525,335
BG	N/A	N/A	N/A	N/A	N/A	95 066	121,353
CZ	36 000	106 000	181 000	309 000	399,478	493 470	562,069
DK	562 009	638 961	714 529	830 697	947,577	1 051 919	1,154,475
DE	5 286 141	6 709 683	8 138 941	10 207 500	12,128,500	14 290 000	16,476,000
EE	50 906	64 628	75 133	83 880	109,157	120 110	126,327
EL	22 937	46 547	91 869	157 993	294,026	484 321	757,012
ES	2 086 172	2 604 067	3 268 602	3 915 435	4,561,707	5 262 617	5,871,519
FR	4 490 487	6 293 249	7 802 442	9 390 561	10,697,543	12 156 164	13,417,236
IE	57 445	115 583	144 376	202 290	275,172	379 124	472,532
IT	3 223 188	4 402 585	5 175 270	6 556 648	7,363,356	8 155 511	9,052,033
CY	14 490	17 994	17 994	44 322	49,873	67 378	85,365
LV	26 815	39 281	49 465	69 464	83,807	107 473	131,024
LT	34 074	50 688	69 804	104 798	133,880	178 302	206,273
LU	22 128	32 607	47 048	63 132	71,870	89 710	102,632
HU	165 980	239 810	297 237	412 886	485,881	614 894	699,155
MT	11 426	22 145	23 799	30 139	30,523	29 864	34,600
NL	1 374 129	1 884 561	2 204 067	2 551 052	2,848,829	3 177 200	3,322,306
AT	355 725	442 075	525 230	683 083	781,408	872 948	937,101
PL	108 901	410 186	532 284	730 358	1,098,859	1 493 794	1,696,528
PT	293 435	424 169	576 258	707 916	835,998	926 420	980,540
RO	N/A	N/A	N/A	N/A	N/A	98 053	175,810
SI	53 840	74 922	95 932	129 281	155,288	194 339	222,690
SK	9 900	38 334	64 539	104 487	140,503	182 391	211,339
FI	400 000	585 650	763 283	929 268	1,068,082	1 161 836	1,212,595
SE	686 200	883 200	1 038 747	1 250 441	1,392,000	1 548 000	1,661,000
UK	2 753 061	4 203 651	5 784 002	7 265 521	8,704,903	10 035 298	11,263,353
<b>EU</b>	<b>23 014 683</b>	<b>31 326 694</b>	<b>38 795 492</b>	<b>47 977 623</b>	<b>56,014,227</b>	<b>64 734 223</b>	<b>72,478,202</b>

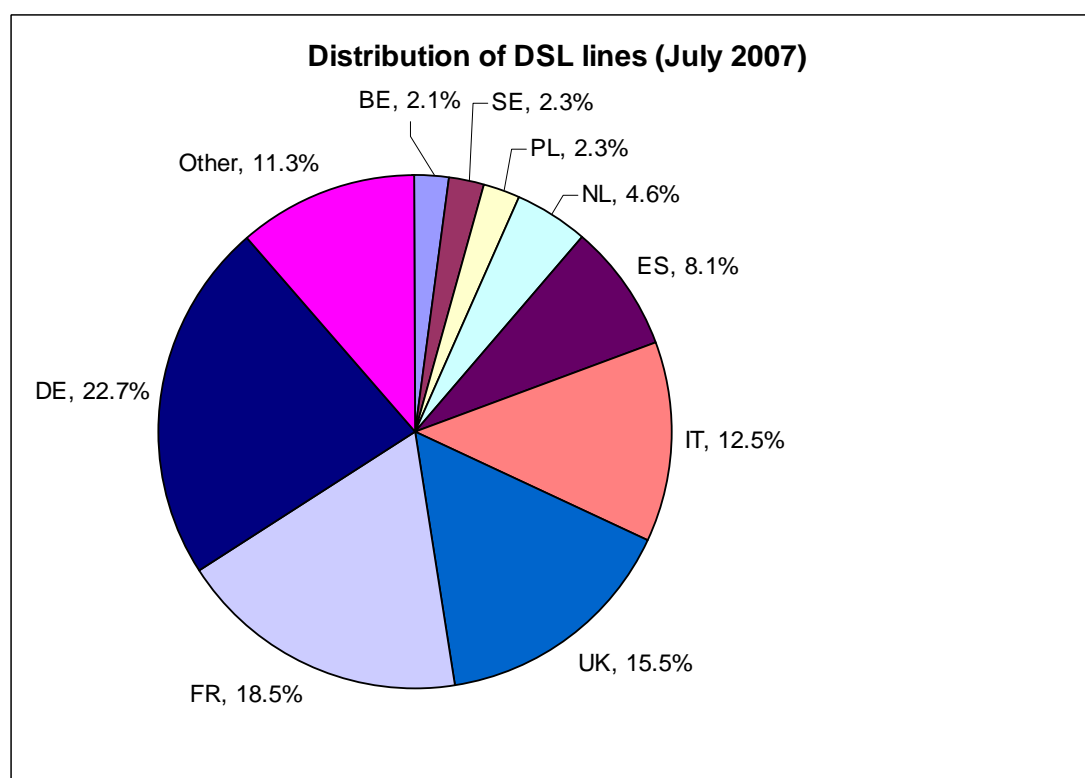
Figure 11 displays the distribution of DSL lines by country, Figure 12 presents this distribution in percentage terms at 1 July 2007 and Figure 13 shows the growth rate since January 2003.

**Figure 11 EU countries by number of DSL lines**

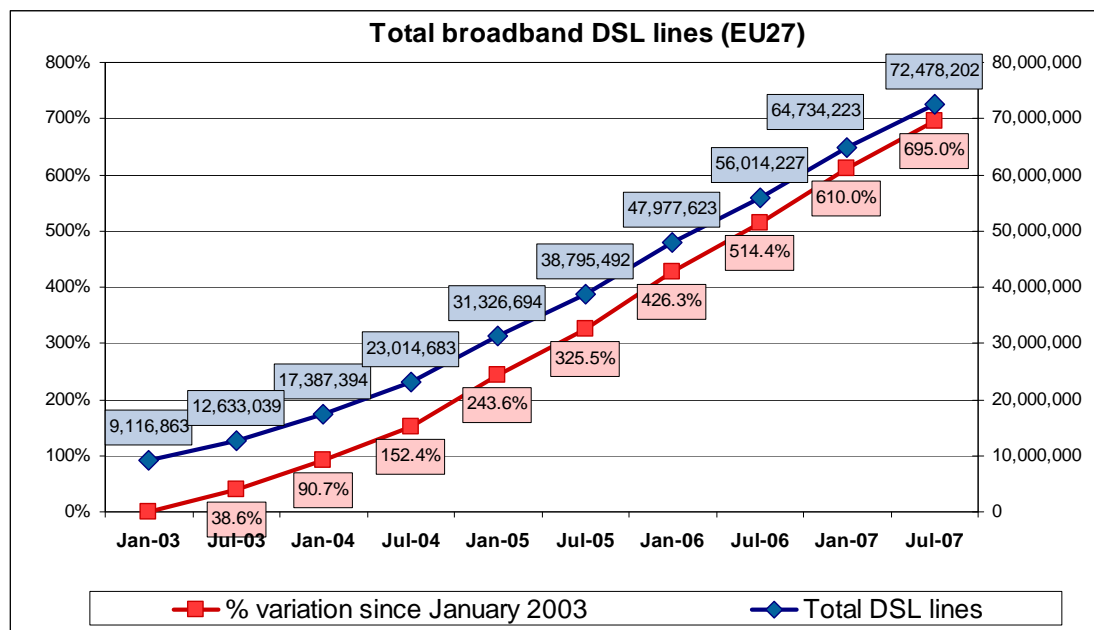


Germany accounts for 22.7% of all DSL lines, followed by France with 18.5% and the UK with 15.5%. These three countries provide 56.7% of all DSL lines, as shown in Figure 12. The new Member States (EU12) contribute 4.3 million DSL lines, which represent 5.9% of the total DSL lines, up by 1.1 points since July 2006.

**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 2006 and July 2007 was 44 293 (Bulgaria and Romania not included), which means that 2882 (i.e. 6.1%) connections per day less were added than in the period between July 2005 and July 2006, when 47 175 new DSL connections per day were recorded.

Germany added more than 4.3 million new lines over the period, followed by France, the UK, Italy, Spain and Poland.

**Figure 14 DSL lines added, by country**

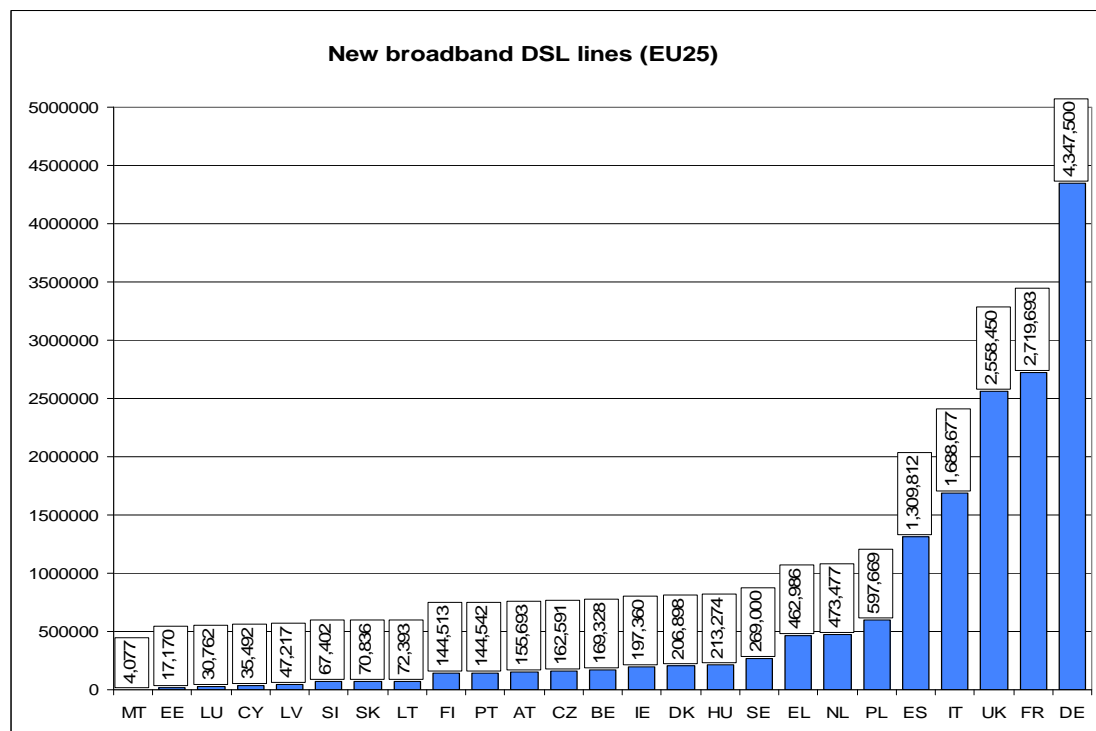
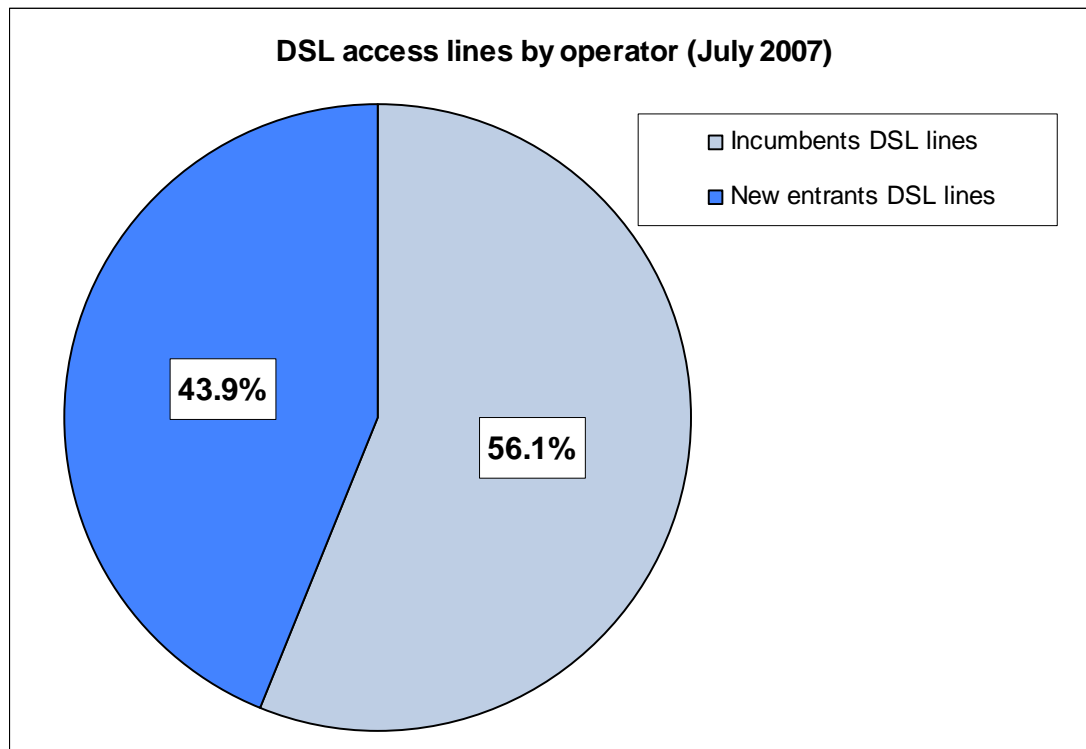


Figure 15 shows the percentage of DSL lines provided by the incumbent fixed operators and the new entrants. Figure 16 displays the trend in the percentage of DSL lines provided by incumbent fixed operators.

**Figure 15 DSL lines market share by operator**



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

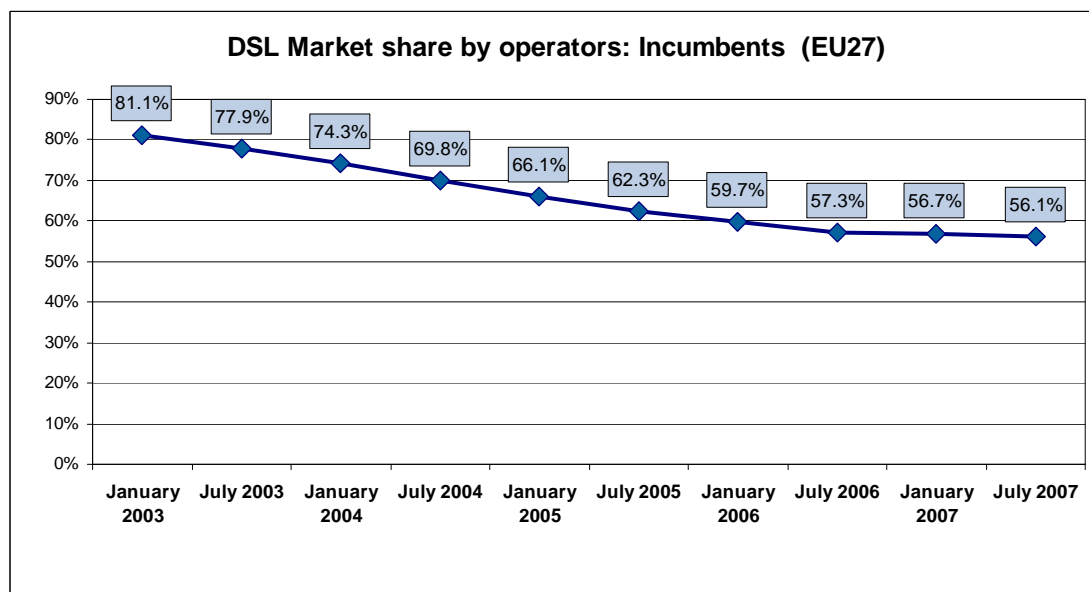
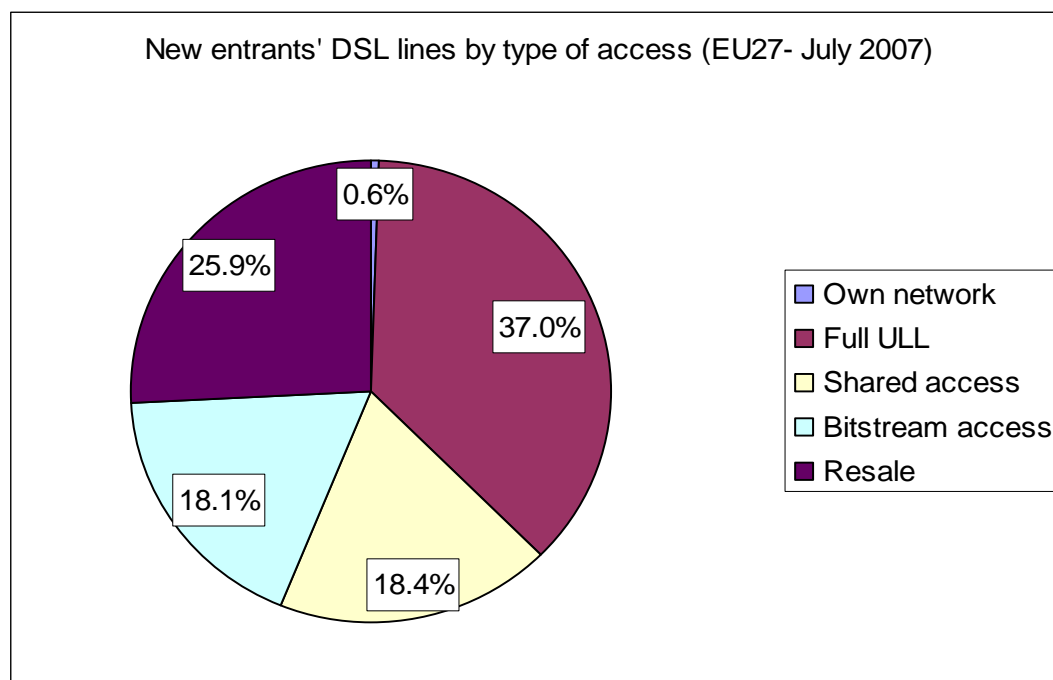


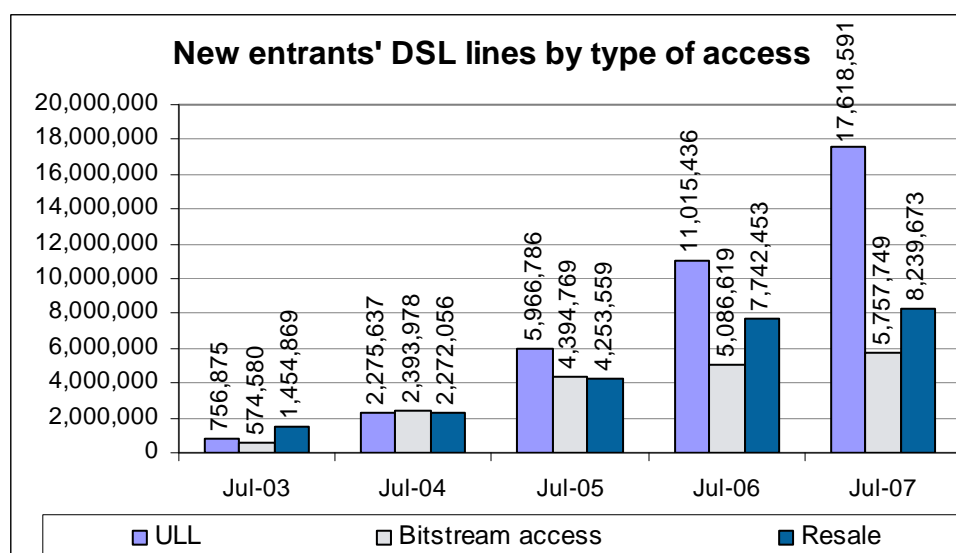


Figure 17 displays the type of access used by new entrants' to provide DSL lines to their customers. Local loop unbundling (fully unbundled lines and shared access) is the main wholesale access for new entrants with 55.4% of DSL lines, up from 45.9% in July 2006. New entrants continue to replace bitstream access (down by 3.1 percentage points since July 2006) 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 6.3 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

There were 16 166 877 (17 728 920 with Bulgaria and Romania) broadband lines using technologies other than DSL in the EU as of 1 July 2007. 3 529 525 lines were added (5 091 568 with Bulgaria and Romania), which represents a 27.9% increase since 1 July 2006. Net additions in the period between July 2006 and July 2007 were higher than in the period between July 2005 and July 2006, when 3 082 832 new lines were sold, pointing at a solid growth of non-DSL segment.

Alternative operators provided 92.6% of these lines, which is on par with the market share in July 2006.

Table 3 shows how the non-DSL broadband lines in the EU were distributed between the EU Member States at 1 July 2004, 1 January 2005, 1 July 2005, 1 January 2006, 1 July 2006, 1 January 2007 and 1 July 2007.

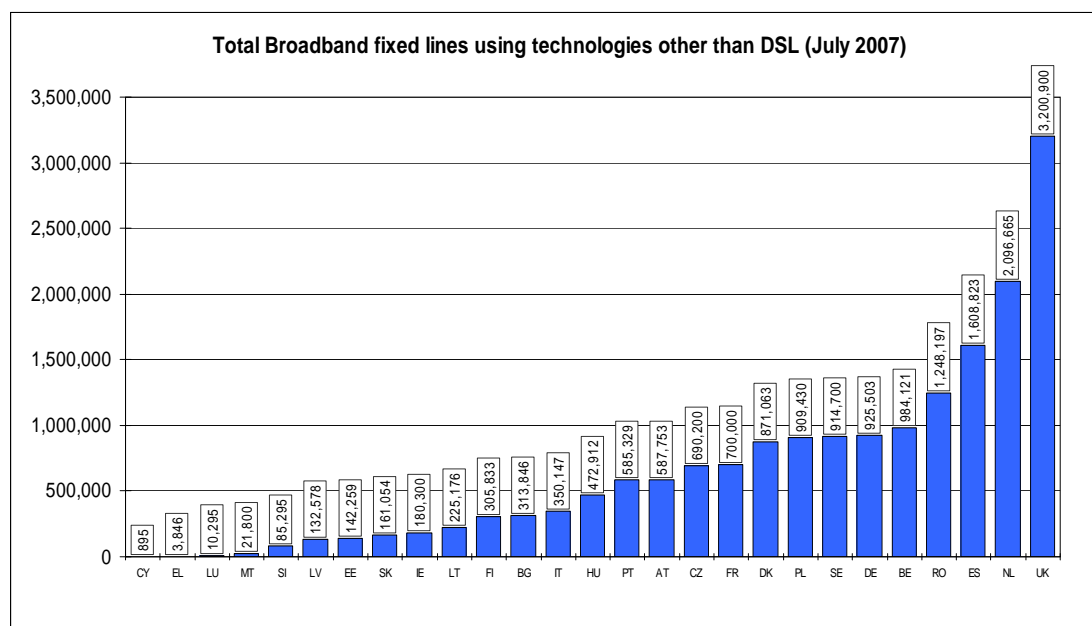
**Table 3 Non-DSL broadband lines in the EU by Country**

	July 2004	January 2005	July 2005	January 2006	July 2006	January 2007	July 2007
BE	555 379	623 638	690 492	763 113	816,239	886 829	984,121
BG	N/A	N/A	N/A	N/A	N/A	250 511	313,846
CZ	85 000	122 200	255 000	341 000	461,030	594 050	690,200
DK	359 468	400 417	473 902	506 890	658,954	651 686	871,063
DE	129 106	195 476	296 428	350 600	479,900	612 200	925,503
EE	51 865	73 989	75 113	95 224	113,830	126 777	142,259
EL	2 449	4 908	1 714	2 120	3,064	3 568	3,846
ES	681 455	848 639	971 737	1 111 498	1,223,155	1 390 048	1,608,823
FR	425 000	500 000	520 000	560 000	600,000	660 000	700,000
IE	10 085	22 533	32 745	74 570	97,000	138 200	180,300
IT	280 309	298 647	346 104	340 048	327,147	341 911	350,147
CY	30	973	973	2 768	693	636	895
LV	7 089	17 167	35 916	61 865	71,931	134 077	132,578
LT	54 205	78 365	100 815	129 248	152,179	181 262	225,176
LU	3 206	4 412	6 001	7 304	8,235	9 055	10,295
HU	91 036	125 931	160 320	206 826	274,390	380 890	472,912
MT	2 312	15 909	17 752	21 150	21,420	20 629	21,800
NL	998 400	1 200 000	1 438 248	1 562 521	1,893,000	2 015 000	2,096,665
AT	352 000	385 600	412 600	493 100	528,688	567 232	587,753
PL	111 000	126 551	178 442	285 483	405,415	500 666	909,430
PT	370 610	429 961	478 295	514 385	523,746	544 390	585,329
RO	N/A	N/A	N/A	N/A	N/A	989 371	1,248,197
SI	22 499	43 109	60 737	67 405	73,674	85 321	85,295
SK	4 585	13 535	15 846	33 440	74,800	97 244	161,054
FI	172 100	194 279	211 331	242 095	240,377	264 515	305,833
SE	445 200	501 900	494 900	615 235	677,685	799 850	914,700
UK	1 642 500	1 933 500	2 279 109	2 623 105	2,910,800	3 067 000	3,200,900
<b>EU</b>	<b>6 856 888</b>	<b>8 161 639</b>	<b>9 554 520</b>	<b>11 010 993</b>	<b>12,637,352</b>	<b>15 312 918</b>	<b>17,728,920</b>

DK – data includes 170,262 subscriptions to access on multiple locations (Hotspots)

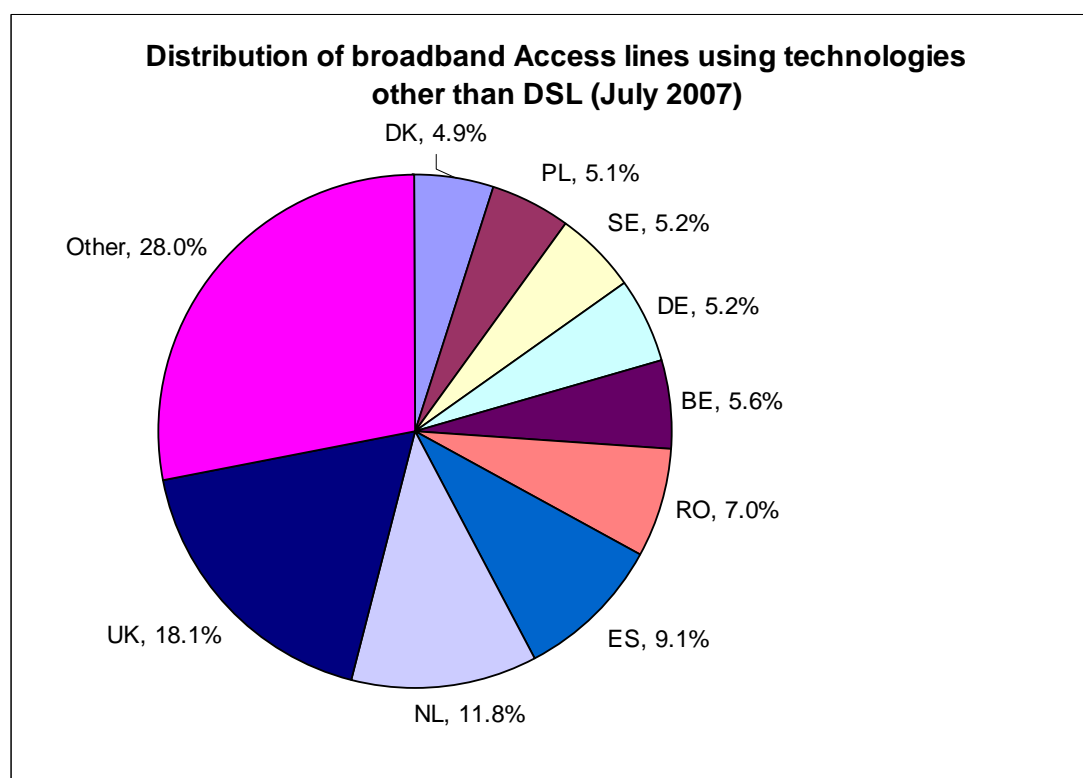
Figure 19 displays the distribution by country, Figure 20 presents this distribution in percentage terms at 1 July 2007 and Figure 21 shows the growth rate since January 2003.

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

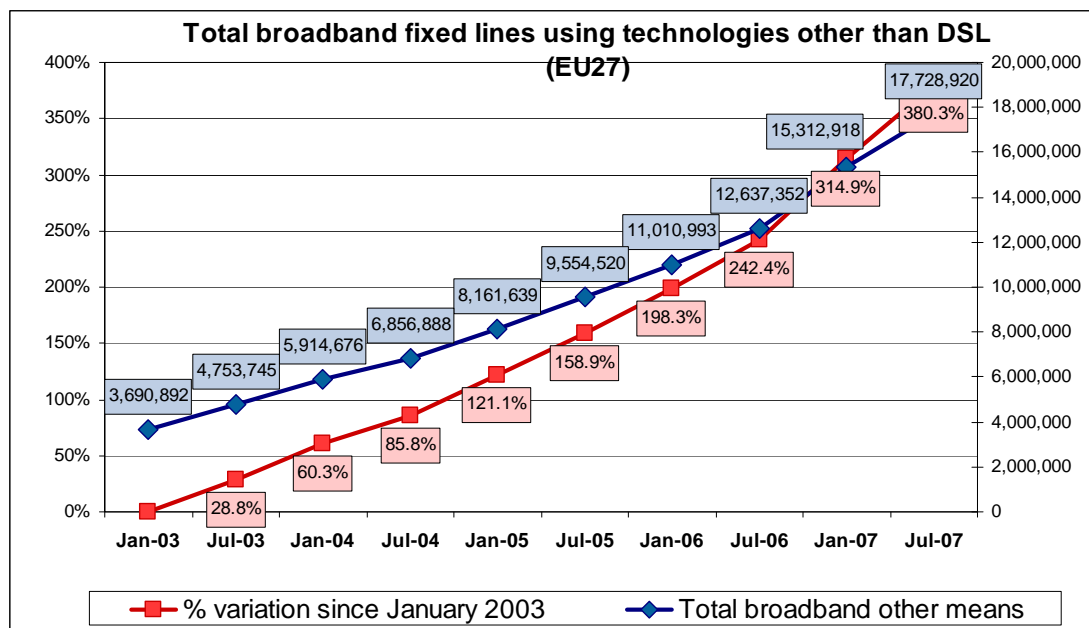


The UK accounts for 18.1% of all broadband lines using other technologies, as shown in Figure 20. The Netherlands has the second largest individual share, with 11.8%, followed by Spain, Romania and Belgium with 9.1%, 7.0% and 5.6% respectively. These five countries account for 51.6% of broadband lines 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**



9 670 (Bulgaria and Romania not included) broadband lines using other technologies were added each day in the period between July 2006 and July 2007. This optimistically compares to 8 446 new lines added per day between July 2005 and July 2006.

Poland is the only Member State that has added more than 0.5 million lines using technologies other than DSL since July 2006. Germany contributed with more than 0.4 million new lines in the same period, followed by Spain, the UK, Sweden and Czech Republic.

**Figure 22 Broadband lines using other technologies added by country**

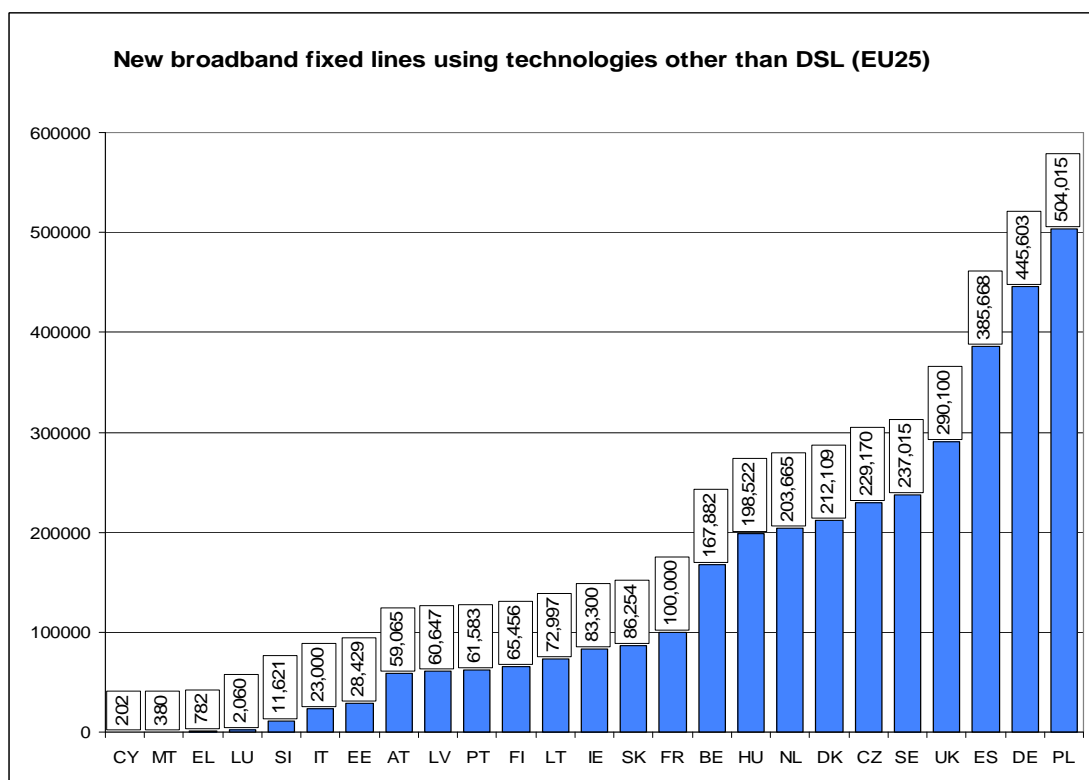
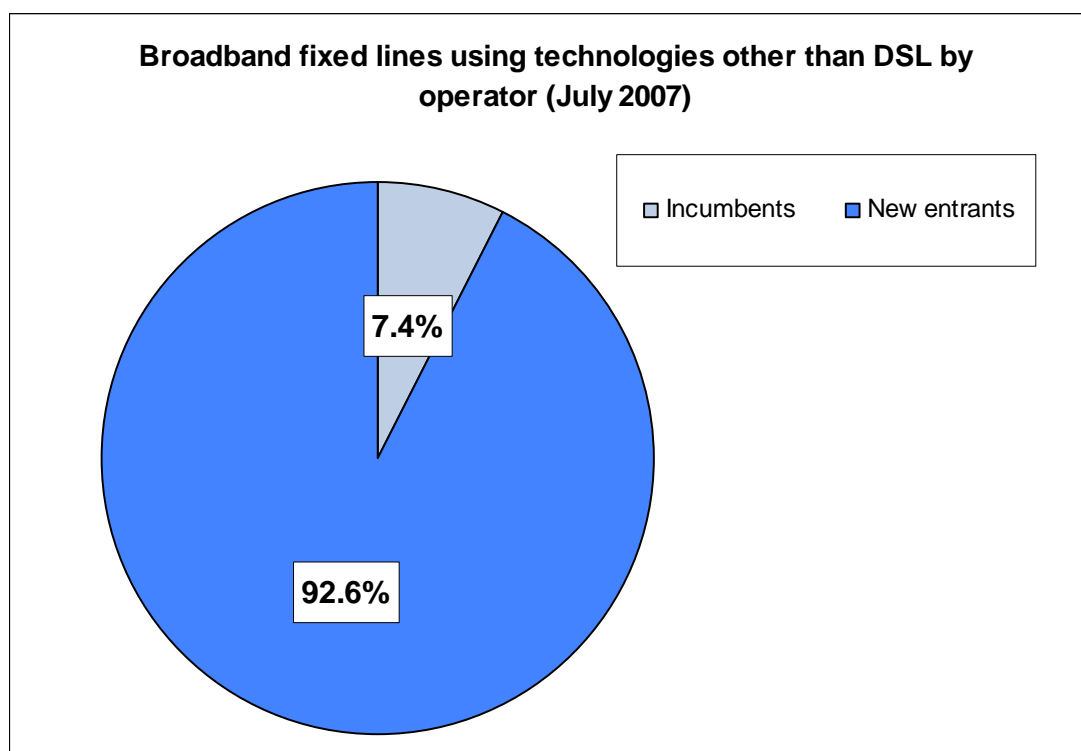
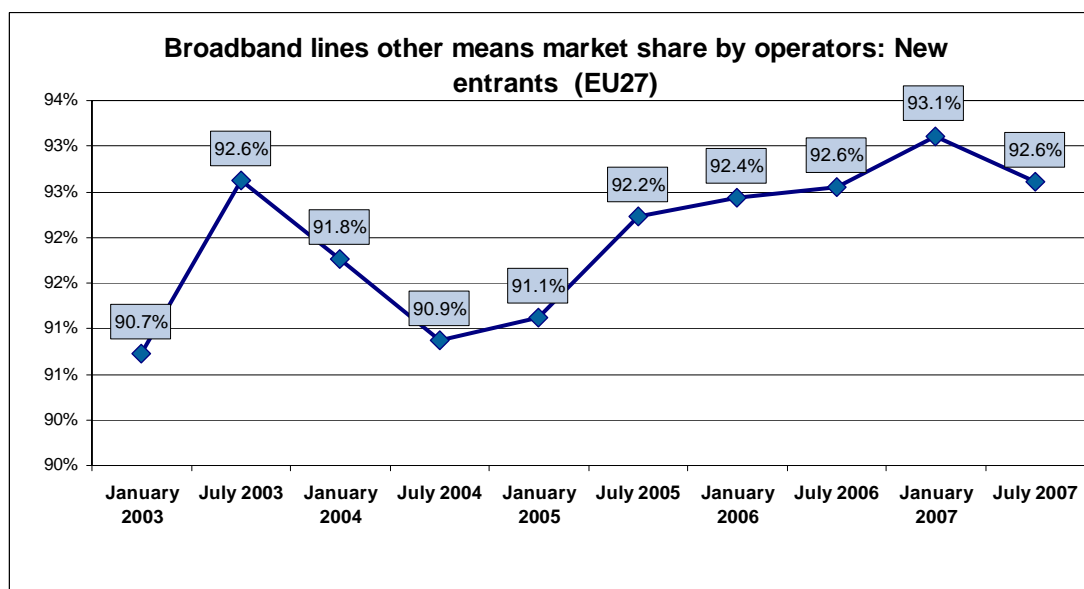


Figure 23 and 24 show the percentage of broadband lines using other technologies provided by the incumbent fixed operators and the alternative operators and the trend since January 2003.

**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 (WHOLESALE AND RETAIL)**

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

		Availability of wholesale access 1 July 2007									
JULY 07		Fully unbundled lines			Shared access lines supplied by the incumbent to new entrants			Wholesale DSL lines supplied			
	Incumbent's PSTN activated							Bitstream access		Simple resale	
Country	main lines	Unbundled lines	Requested lines	N. of agreements	Shared lines	Requested lines	N. of agreements	No. of lines	No. of agreements	Resale No. of lines	No. of agreements
BE	4010973	36948	727	9	32986	491	9	284359	13	33199	18
DK	2998015	163653		22	51729		8	113746	14		10
DE	37880000	5480000		104	116000		18			3540000	30
EL	5305503	80056	14875	18	15322	1669	7	214240	15		
ES	15787470	505249	18993	18	664460	13674	12	373712	23	156734	2
FR	33897000	2864953			1682333			2042987		218847	
IE	1600000	17512	62	5	1092	9	5	136372	12		
IT	19983000	2819578	54688	29	507577	3993	11	1204000	159		
LU	224288	8851	273	4	102	2	4			13166	7
NL	6021000	356000		10	535000		10		5		
AT	2522759	235139	6460	36	124		3	123976			
PT	3191744	244065	4960	5	3		1	778807	8		
FI	2144000	313854			77159			80759			
SE	4862000	142000			431000					130000	
UK	23016047	687707		55	1735860		31	946509	29	7814795	552
CY	376622	8077		2	114		2				
CZ	2104955	24815		6	11178		6	64171	22		
EE	464000	5017	230	7							
HU	3153000	5400	658	7	3708	34	7	183566	24		
LV	600000			2			2	795	11		
LT	719307	375		1				2314	10		
MT	219000									10600	14
PL	8119358							53737	6		
SK	1134138									9244	12
SI	809936	25242	971	3	15164	395	3	21064	11	1236	3
BG	2370358			3	2	12	3			81	4
RO	3100000	1242		17	346		17				
EU27	186 614 473	14 025 733	102 897	363	5 881 259	20 279	159	6 625 114	362	11 927 902	712

# BROADBAND RETAIL LINES, 1 July 2007

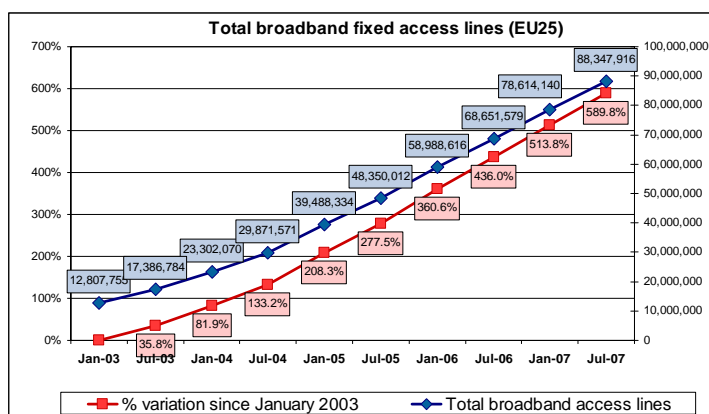
JULY 07		New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means									
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Tot.	WLL	Cable modem	Leased lines	3G	Fiber to the home	Satellite	PLC	Other	Public access WIFI Hotspots	Tot. (exc. WIFI)	WLL	Cable modem	Leased lines	3G	Fiber to the home	Satellite	PLC	Other	Public access WIFI Hotspots	Tot. (exc. WIFI)
BE	1174444		33686	18659	265347	33199	350,891										0	8349	974269	1384		13			106	1394	984121
DK	815691	116	150262	63604	96772	28030	338,784	168307	289181	9481					7118	754	474087	23731	237749	1605		28625	7	94	105165	279	396976
DE	8010000		4810000	116000		3540000	8,466,000			54100 1149			3003			8600	57103		810000				49000	9400			868400
EL	447394		80056	15322	214240		309,618						350			14	1499	1029		772		546					2347
ES	4171364		505249	664460	373712	156734	1,700,155						4922				4922	12246	1562514	17743		5336	843	1600	3619		1603901
FR	6608116		2864953	1682333	2042987	218847	6,809,120										0		700000								700000
IE	317556		17512	1092	136372		154,976										0	102500	68900			8900				1214	180300
IT	6073000	415	1390497	461435	1125735	951	2,979,033			334		285	18136		206	1377	18961	1584	20	5239		247343	77000			623	331186
LU	81326	21	8017	102		13166	21,306		797	279		208				39	1284	140	8861	10						80	9011
NL	2405306		356000	561000			917,000										0		2031665			65000					2096665
AT	597650		214965	124	124362		339,451										0	21125	557205	2023		1000	1000	5400			587753
PT	717612		236789	3	26136		262,928		378894	1046						1341	379940	5615	197369	2405							205389
FI	859666		195011	77159	80759		352,929	7732	101114						80330		189176	3475	91810					960	20412		116657
SE	958000		142000	431000		130000	703,000			10000		35000					45000	4000	500000	10000		355000	700				869700
UK	3717759	78482	687707	1735860	946509	4097036	7,545,594										0	2500	3192400				6000				3200900
CY	77174		8077	114			8,191			273					39	72	312		545	35					3	20	583
CZ	462269		24800	11000	64000		99,800							100		200	100	400000	260000			26000	4000	100		2850	690100
EE	121588	1711	2988			40	4,739	4952				25018			428	150	30398	7930	63915			22717			17299	965	111861
HU	506481		5400	3708	183566		192,674	7100	65597	1500							74197	42500	351715	3500		1000					398715
LV	130038		300	10	137	539	986	256				26			179		461	10034	34344	19161		4180	8		64390		132117
LT	203959				2314		2,314	2551		91		99			3824	2551	6565	28639	61425	1621		81518	170		45238	192	218611
MT	24000					10600	10,600										0		21800								21800
PL	1542349	100442			53737		154,179		19353						6095		25448	19756	756177	2380		7499			98170	20157	883982
SK	202095					9244	9,244			248							248	57946	42766	972		38094	4		21024	500	160806
SI	159984	0	25242	15164	21064	1236	62,706	0	0	0		71	0	0	0	67	71	242	79325	503		4827	18	0	309	311	85224
BG	121298		2	2		51	55								468		468	1067	67392	503		12745	2		231669		313378
RO	173252	1631	927				2,558					100			883		983	29862	409585	114		65997	149		741507	732	1247214
EU27	40 679 371	182818	11760440	5858151	5 757 749	8239673	31798831	190898	854936	78 501		60807	26 411	100	99570	15 165	1311223	784270	13081751	69 970		976340	138901	17554	1348911	29 317	16417697

DK – data includes 170,262 subscriptions to access on multiple locations (Hotspots)



## Broadband access in the EU as at 1 July 2007

### Total broadband access retail fixed lines in EU



#### Variation July 2006-July 2007

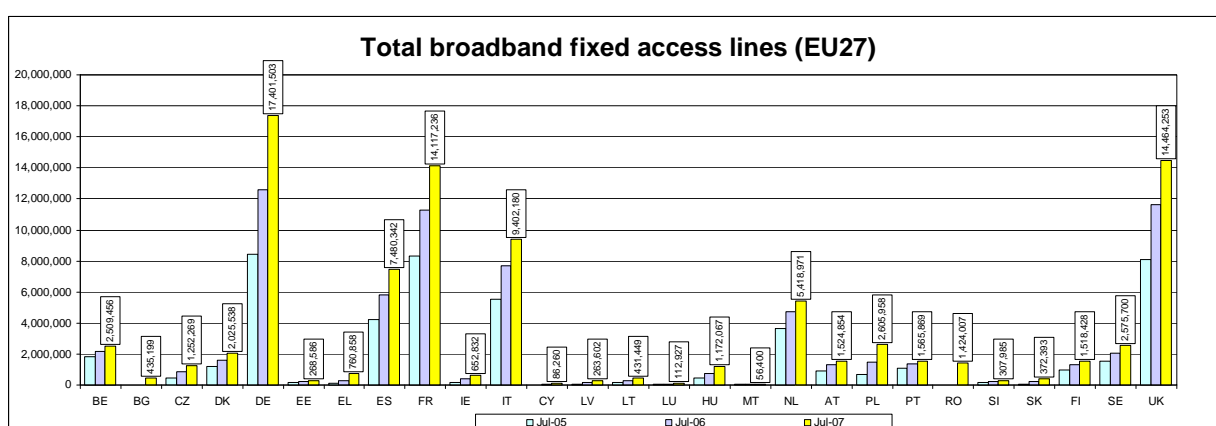
%	28.7 %
New lines	19,696,337
Lines/day	53,963

#### Variation July 2005-July 2006

%	42.0 %
New lines	20,301,567
Lines/day	55,621

#### Variation July 2004-July 2005

%	61.9 %
New lines	18,478,441
Lines/day	50,626

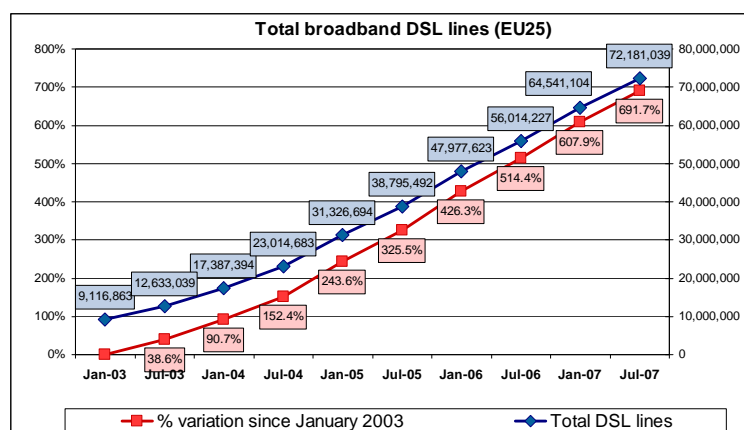


Country	Jan-05	Jul-05	Jan-06	Jul-06	Jan-07	Jul-07
BE	1,619,756	1,804,133	2,010,584	2,172,246	2,354,850	2,509,456
BG	0	0	0	0	345,577	435,199
CZ	228,200	436,000	650,000	860,508	1,087,520	1,252,269
DK	1,039,378	1,188,431	1,337,587	1,606,531	1,703,605	2,025,538
DE	6,905,159	8,435,369	10,558,100	12,608,400	14,902,200	17,401,503
EE	138,617	150,246	179,104	222,987	246,887	268,586
EL	51,455	93,583	160,113	297,090	487,889	760,858
ES	3,452,706	4,240,339	5,026,933	5,784,862	6,652,665	7,480,342
FR	6,793,249	8,322,442	9,950,561	11,297,543	12,816,164	14,117,236
IE	138,116	177,121	276,860	372,172	517,324	652,832
IT	4,701,232	5,521,374	6,896,696	7,690,503	8,497,422	9,402,180
CY	18,967	18,967	47,090	50,566	68,014	86,260
LV	56,448	85,381	131,329	155,738	241,550	263,602
LT	129,053	170,619	234,046	286,059	359,564	431,449
LU	37,019	53,049	70,436	80,105	98,765	112,927
HU	365,741	457,557	619,712	760,271	995,784	1,172,067
MT	38,054	41,551	51,289	51,943	50,493	56,400
NL	3,084,561	3,642,315	4,113,573	4,741,829	5,192,200	5,418,971
AT	827,675	937,830	1,176,183	1,310,096	1,440,180	1,524,854
PL	536,738	710,726	1,015,841	1,504,274	1,994,460	2,605,958
PT	854,130	1,054,553	1,222,301	1,359,744	1,470,810	1,565,869
RO	0	0	0	0	1,087,424	1,424,007
SI	118,031	156,669	196,686	228,962	279,660	307,985
SK	51,869	80,385	137,927	215,303	279,635	372,393
FI	779,929	974,614	1,171,363	1,308,459	1,426,351	1,518,428
SE	1,385,100	1,533,647	1,865,676	2,069,685	2,347,850	2,575,700
UK	6,137,151	8,063,111	9,888,626	11,615,703	13,102,298	14,464,253

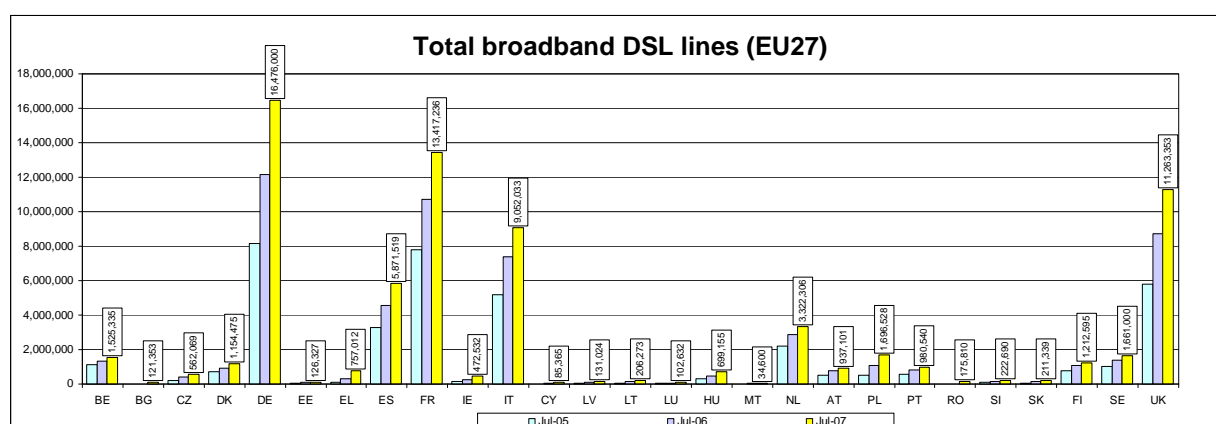
Country	July 05 - July 06			July 06 - July 07		
	Difference	Variation	Lines/day	Difference	Variation	Lines/day
BE	368,113	20.4%	1,009	337,210	15.5%	924
BG						
CZ	424,508	97.4%	1,163	391,761	45.5%	1,073
DK	418,100	35.2%	1,145	419,007	26.1%	1,148
DE	4,173,031	49.5%	11,433	4,793,103	38.0%	13,132
EE	72,741	48.4%	199	45,599	20.4%	125
EL	203,507	217.5%	558	463,768	156.1%	1,271
ES	1,544,523	36.4%	4,232	1,695,480	29.3%	4,645
FR	2,975,101	35.7%	8,151	2,819,693	25.0%	7,725
IE	195,051	110.1%	534	280,660	75.4%	769
IT	2,169,129	39.3%	5,943	1,711,677	22.3%	4,690
CY	31,599	166.6%	87	35,694	70.6%	98
LV	70,357	82.4%	193	107,864	69.3%	296
LT	115,440	67.7%	316	145,390	50.8%	398
LU	27,056	51.0%	74	32,822	41.0%	90
HU	302,714	66.2%	829	411,796	54.2%	1,128
MT	10,392	25.0%	28	4,457	8.6%	12
NL	1,099,514	30.2%	3,012	677,142	14.3%	1,855
AT	372,266	39.7%	1,020	214,758	16.4%	588
PL	793,548	111.7%	2,174	1,101,684	73.2%	3,018
PT	305,191	28.9%	836	206,125	15.2%	565
RO						
SI	72,293	46.1%	198	79,023	34.5%	217
SK	134,918	167.8%	370	157,090	73.0%	430
FI	333,845	34.3%	915	209,969	16.0%	575
SE	536,038	35.0%	1,469	506,015	24.4%	1,386
UK	3,552,592	44.1%	9,733	2,848,550	24.5%	7,804

## Broadband access in the EU as at 1 July 2007

### Total DSL retail lines in EU



Variation July 2006-July 2007	
%	28.9%
New lines	16,166,812
Lines/day	44,293
Variation July 2005-July 2006	
%	44.4%
New lines	17,218,735
Lines/day	47,175
Variation July 2004-July 2005	
%	68.6%
New lines	15,780,809
Lines/day	43,235

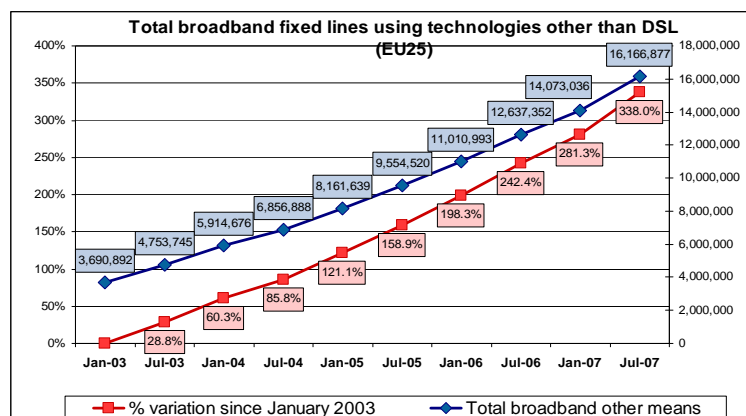


Country	Jan-05	Jul-05	Jan-06	Jul-06	Jan-07	Jul-07
BE	996,118	1,113,641	1,247,471	1,356,007	1,468,021	1,525,335
BG	0	0	0	0	95,066	121,353
CZ	106,000	181,000	309,000	399,478	493,470	562,069
DK	638,961	714,529	830,697	947,577	1,051,919	1,154,475
DE	6,709,683	8,138,941	10,207,500	12,128,500	14,290,000	16,476,000
EE	64,628	75,133	83,880	109,157	120,110	126,327
EL	46,547	91,869	157,993	294,026	484,321	757,012
ES	2,604,067	3,268,602	3,915,435	4,561,707	5,262,617	5,871,519
FR	6,293,249	7,802,442	9,390,561	10,697,543	12,156,164	13,417,236
IE	115,583	144,376	202,290	275,172	379,124	472,532
IT	4,402,585	5,175,270	6,556,648	7,363,356	8,155,511	9,052,033
CY	17,994	17,994	44,322	49,873	67,378	85,365
LV	39,281	49,465	69,464	83,807	107,473	131,024
LT	50,688	69,804	104,798	133,880	178,302	206,273
LU	32,607	47,048	63,132	71,870	89,710	102,632
HU	239,810	297,237	412,886	485,881	614,894	699,155
MT	22,145	23,799	30,139	30,523	29,864	34,600
NL	1,884,561	2,204,067	2,551,052	2,848,829	3,177,200	3,322,306
AT	442,075	525,230	683,083	781,408	872,948	937,101
PL	410,186	532,284	730,358	1,098,859	1,493,794	1,696,528
PT	424,169	576,258	707,916	835,998	926,420	980,540
RO	0	0	0	0	98,053	175,810
SI	74,922	95,932	129,281	155,288	194,339	222,690
SK	38,334	64,539	104,487	140,503	182,391	211,339
FI	585,650	763,283	929,268	1,068,082	1,161,836	1,212,595
SE	883,200	1,038,747	1,250,441	1,392,000	1,548,000	1,661,000
UK	4,203,651	5,784,002	7,265,521	8,704,903	10,035,298	11,263,353

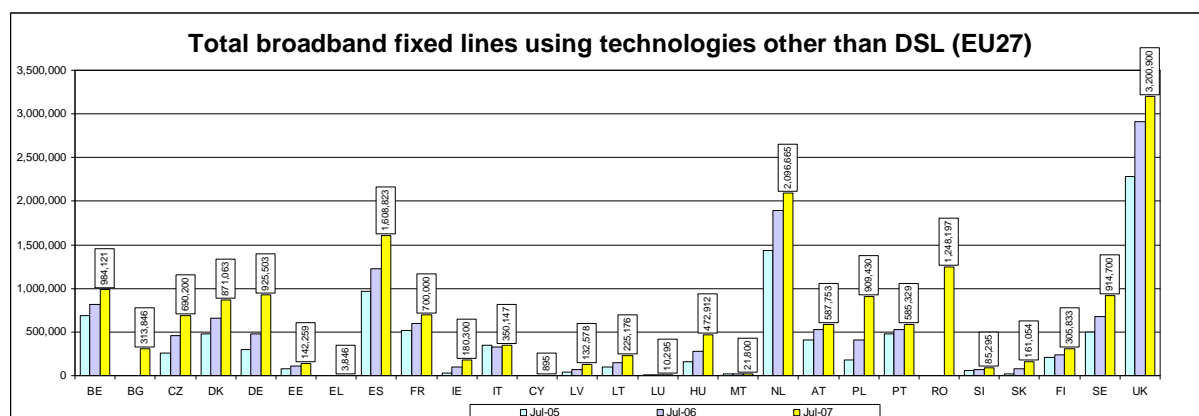
Country	July 05 - July 06			July 06 - July 07		
	Difference	Variation	Lines/day	Difference	Variation	Lines/day
BE	242,366	21.8%	664	169,328	12.5%	464
BG						
CZ	218,478	120.7%	599	162,591	40.7%	445
DK	233,048	32.6%	638	206,898	21.8%	567
DE	3,989,559	49.0%	10,930	4,347,500	35.8%	11,911
EE	34,024	45.3%	93	17,170	15.7%	47
EL	202,157	220.0%	554	462,986	157.5%	1,268
ES	1,293,105	39.6%	3,543	1,309,812	28.7%	3,589
FR	2,895,101	37.1%	7,932	2,719,693	25.4%	7,451
IE	130,796	90.6%	358	197,360	71.7%	541
IT	2,188,086	42.3%	5,995	1,688,677	22.9%	4,627
CY	31,879	177.2%	87	35,492	71.2%	97
LV	34,342	69.4%	94	47,217	56.3%	129
LT	64,076	91.8%	176	72,393	54.1%	198
LU	24,822	52.8%	68	30,762	42.8%	84
HU	188,644	63.5%	517	213,274	43.9%	584
MT	6,724	28.3%	18	4,077	13.4%	11
NL	644,762	29.3%	1,766	473,477	16.6%	1,297
AT	256,178	48.8%	702	155,693	19.9%	427
PL	566,575	106.4%	1,552	597,669	54.4%	1,637
PT	259,740	45.1%	712	144,542	17.3%	396
RO						
SI	59,356	61.9%	163	67,402	43.4%	185
SK	75,964	117.7%	208	70,836	50.4%	194
FI	304,799	39.9%	835	144,513	13.5%	396
SE	353,253	34.0%	968	269,000	19.3%	737
UK	2,920,901	50.5%	8,002	2,558,450	29.4%	7,009

## Broadband access in the EU as at 1 July 2007

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



Variation July 2006-July 2007	
%	27.9%
New lines	3,529,525
Lines/day	9,670
Variation July 2005-July 2006	
%	32.3%
New lines	3,082,832
Lines/day	8,446
Variation July 2004-July 2005	
%	39.3%
New lines	2,697,632
Lines/day	7,391

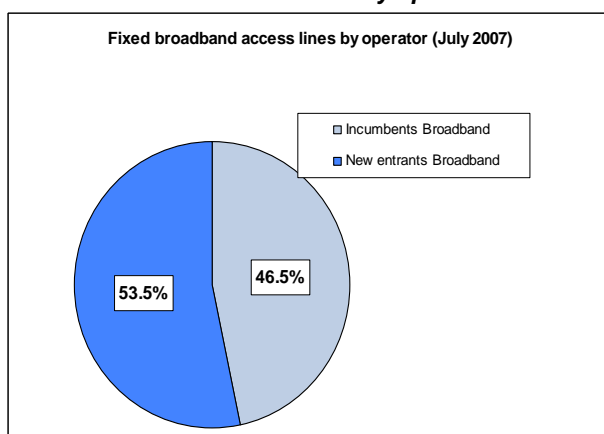


Country	Jan-05	Jul-05	Jan-06	Jul-06	Jan-07	Jul-07
BE	623,638	690,492	763,113	816,239	886,829	984,121
BG	0	0	0	0	250,511	313,846
CZ	122,200	255,000	341,000	461,030	594,050	690,200
DK	400,417	473,902	506,890	658,954	651,686	871,063
DE	195,476	296,428	350,600	479,900	612,200	925,503
EE	73,989	75,113	95,224	113,830	126,777	142,259
EL	4,908	1,714	2,120	3,064	3,568	3,846
ES	848,639	971,737	1,111,498	1,223,155	1,390,048	1,608,823
FR	500,000	520,000	560,000	600,000	660,000	700,000
IE	22,533	32,745	74,570	97,000	138,200	180,300
IT	298,647	346,104	340,048	327,147	341,911	350,147
CY	973	973	2,768	693	636	895
LV	17,167	35,916	61,865	71,931	134,077	132,578
LT	78,365	100,815	129,248	152,179	181,262	225,176
LU	4,412	6,001	7,304	8,235	9,055	10,295
HU	125,931	160,320	206,826	274,390	380,890	472,912
MT	15,909	17,752	21,150	21,420	20,629	21,800
NL	1,200,000	1,438,248	1,562,521	1,893,000	2,015,000	2,096,665
AT	385,600	412,600	493,100	528,688	567,232	587,753
PL	126,551	178,442	285,483	405,415	500,666	909,430
PT	429,961	478,295	514,385	523,746	544,390	585,329
RO	0	0	0	0	989,371	1,248,197
SI	43,109	60,737	67,405	73,674	85,321	85,295
SK	13,535	15,846	33,440	74,800	97,244	161,054
FI	194,279	211,331	242,095	240,377	264,515	305,833
SE	501,900	494,900	615,235	677,685	799,850	914,700
UK	1,933,500	2,279,109	2,623,105	2,910,800	3,067,000	3,200,000

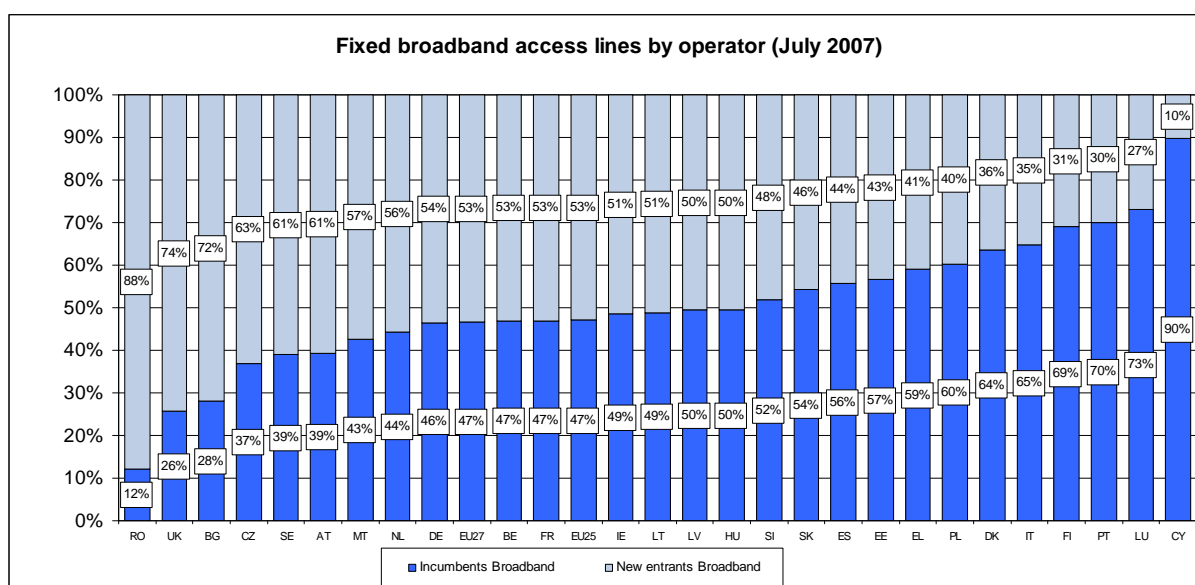
Country	July 05 - July 06		July 06 - July 07	
	Difference	Variation	Difference	Variation
BE	125,747	18.2%	167,882	20.6%
BG				
CZ	206,030	80.8%	229,170	49.7%
DK	185,052	39.0%	212,109	32.2%
DE	183,472	61.9%	503	92.9%
EE	38,717	51.5%	28,429	25.0%
EL	1,350	78.8%	4	25.5%
ES	251,418	25.9%	689	31.5%
FR	80,000	15.4%	219	16.7%
IE	64,255	196.2%	176	85.9%
IT	-18,957	-5.5%	-52	7.0%
CY	-280	-28.8%	-1	29.1%
LV	36,015	100.3%	99	84.3%
LT	51,364	50.9%	141	48.0%
LU	2,234	37.2%	6	25.0%
HU	114,070	71.2%	313	72.4%
MT	3,668	20.7%	10	1.8%
NL	454,752	31.6%	1,246	10.8%
AT	116,088	28.1%	318	11.2%
PL	226,973	127.2%	622	124.3%
PT	45,451	9.5%	125	11.8%
RO				
SI	12,937	21.3%	35	15.8%
SK	58,954	372.0%	162	115.3%
FI	29,046	13.7%	80	27.2%
SE	182,785	36.9%	501	35.0%
UK	631,691	27.7%	1,731	10.0%

## Broadband access in the EU as at 1 July 2007

### Fixed broadband access lines by operator in EU27



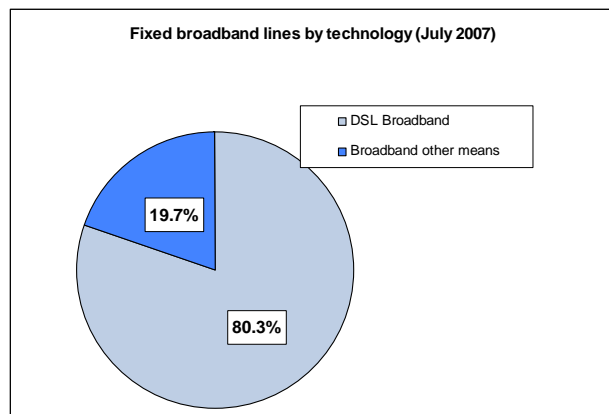
	Fixed broadband access lines by operator	
	Incumbents Broadband	New entrants Broadband
July 2007	46.5%	53.5%



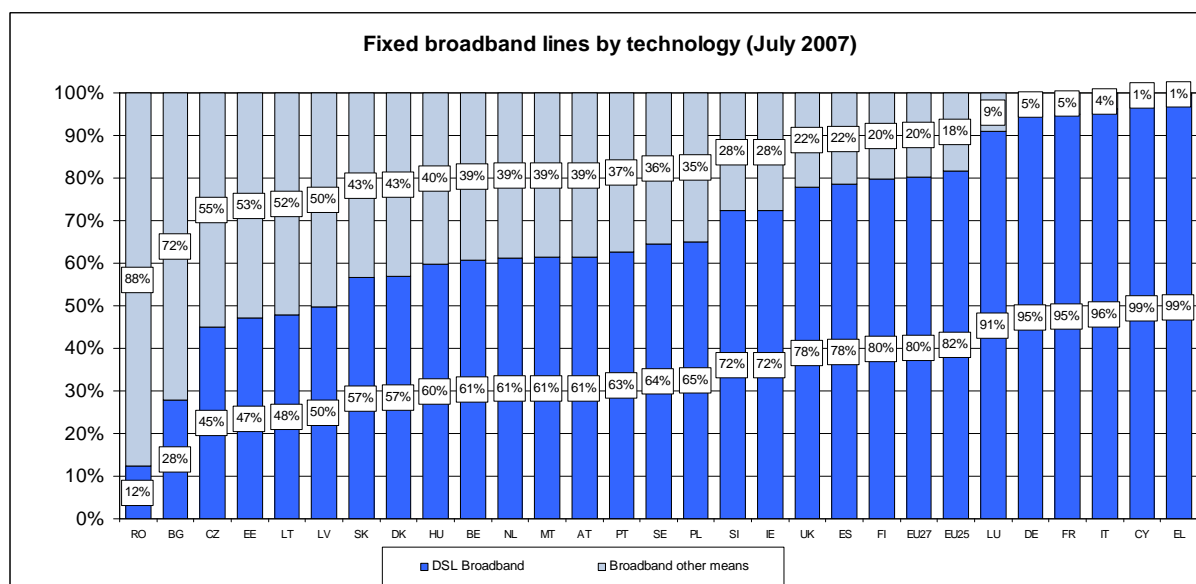
Country	Incumbents Broadband	New entrants Broadband
BE	46.8%	53.2%
BG	28.0%	72.0%
CZ	36.9%	63.1%
DK	63.7%	36.3%
DE	46.4%	53.6%
EE	56.6%	43.4%
EL	59.0%	41.0%
ES	55.8%	44.2%
FR	46.8%	53.2%
IE	48.6%	51.4%
IT	64.8%	35.2%
CY	89.8%	10.2%
LV	49.5%	50.5%
LT	48.8%	51.2%
LU	73.2%	26.8%
HU	49.5%	50.5%
MT	42.6%	57.4%
NL	44.4%	55.6%
AT	39.2%	60.8%
PL	60.2%	39.8%
PT	70.1%	29.9%
RO	12.2%	87.8%
SI	52.0%	48.0%
SK	54.3%	45.7%
FI	69.1%	30.9%
SE	38.9%	61.1%
UK	25.7%	74.3%
EU25	47.2%	52.8%
EU27	46.5%	53.5%

## Broadband access in the EU as at 1 July 2007

### Fixed broadband access lines by technology in EU27



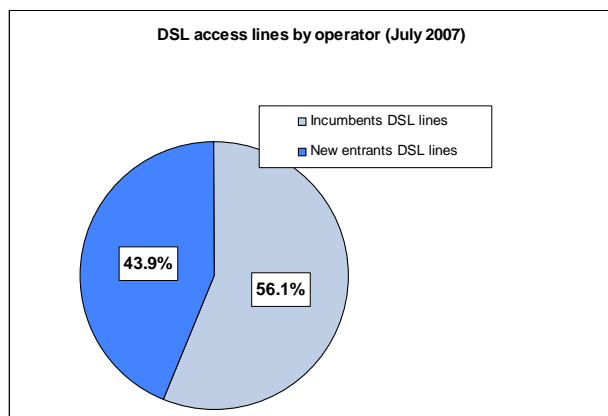
	Fixed broadband lines by technology	
	DSL Broadband	Broadband other means
July 2007	80.3%	19.7%



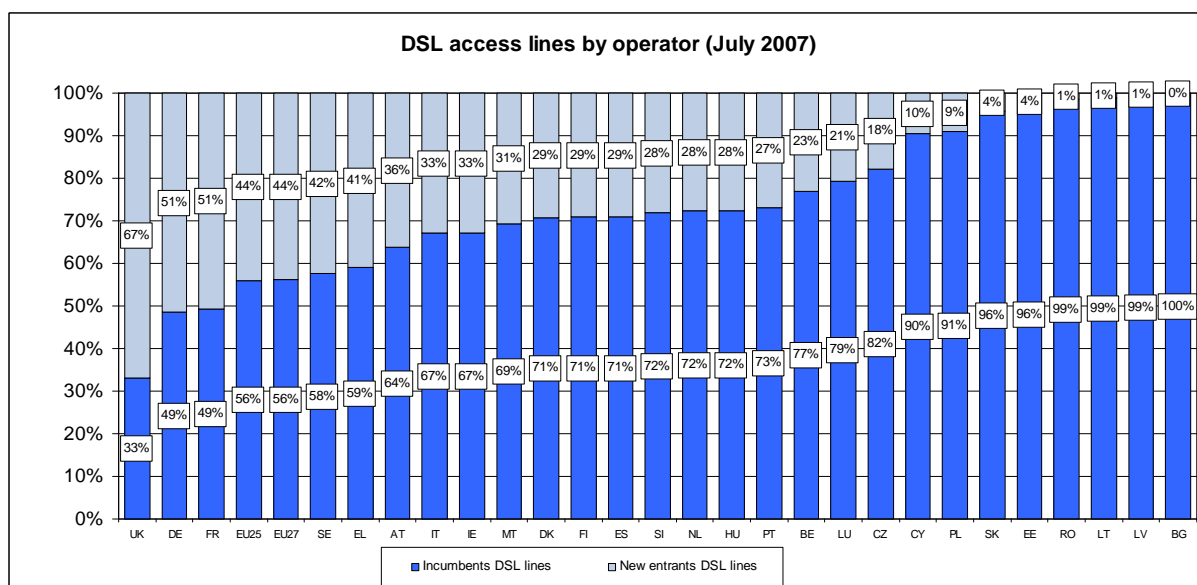
Country	DSL Broadband	Broadband other means
BE	60.8%	39.2%
BG	27.9%	72.1%
CZ	44.9%	55.1%
DK	57.0%	43.0%
DE	94.7%	5.3%
EE	47.0%	53.0%
EL	99.5%	0.5%
ES	78.5%	21.5%
FR	95.0%	5.0%
IE	72.4%	27.6%
IT	96.3%	3.7%
CY	99.0%	1.0%
LV	49.7%	50.3%
LT	47.8%	52.2%
LU	90.9%	9.1%
HU	59.7%	40.3%
MT	61.3%	38.7%
NL	61.3%	38.7%
AT	61.5%	38.5%
PL	65.1%	34.9%
PT	62.6%	37.4%
RO	12.3%	87.7%
SI	72.3%	27.7%
SK	56.8%	43.2%
FI	79.9%	20.1%
SE	64.5%	35.5%
UK	77.9%	22.1%
EU25	81.7%	18.3%
EU27	80.3%	19.7%

## Broadband access in the EU as at 1 July 2007

### DSL access lines by operator in EU27



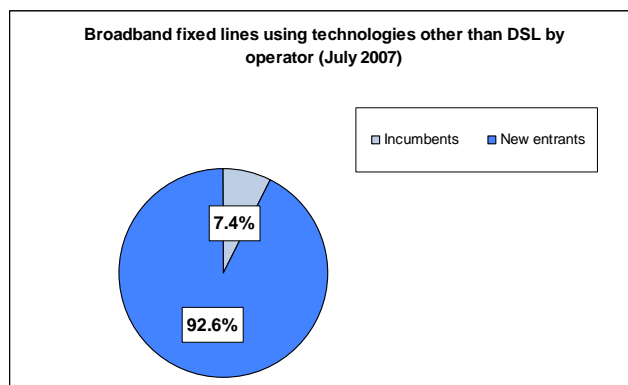
DSL access lines by operator		
	Incumbents DSL lines	New entrants DSL lines
July 2007	56.1%	43.9%



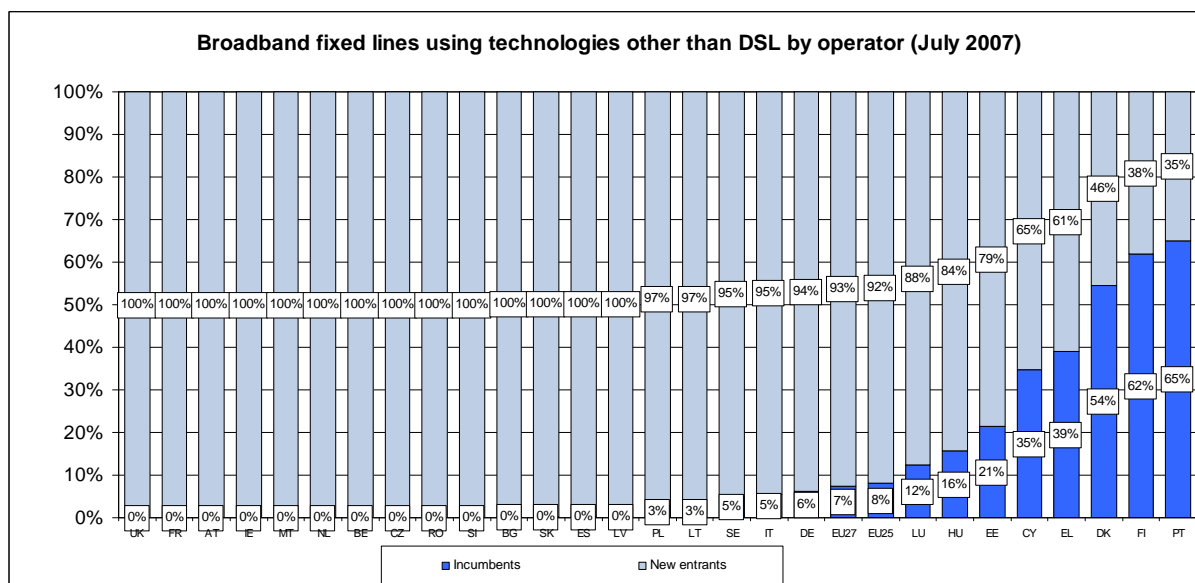
Country	Incumbents DSL lines	New entrants DSL lines
BE	77.0%	23.0%
BG	100.0%	0.0%
CZ	82.2%	17.8%
DK	70.7%	29.3%
DE	48.6%	51.4%
EE	96.2%	3.8%
EL	59.1%	40.9%
ES	71.0%	29.0%
FR	49.3%	50.7%
IE	67.2%	32.8%
IT	67.1%	32.9%
CY	90.4%	9.6%
LV	99.2%	0.8%
LT	98.9%	1.1%
LU	79.2%	20.8%
HU	72.4%	27.6%
MT	69.4%	30.6%
NL	72.4%	27.6%
AT	63.8%	36.2%
PL	90.9%	9.1%
PT	73.2%	26.8%
RO	98.5%	1.5%
SI	71.8%	28.2%
SK	95.6%	4.4%
FI	70.9%	29.1%
SE	57.7%	42.3%
UK	33.0%	67.0%
EU25	55.9%	44.1%
EU27	56.1%	43.9%

## Broadband access in the EU as at 1 July 2007

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



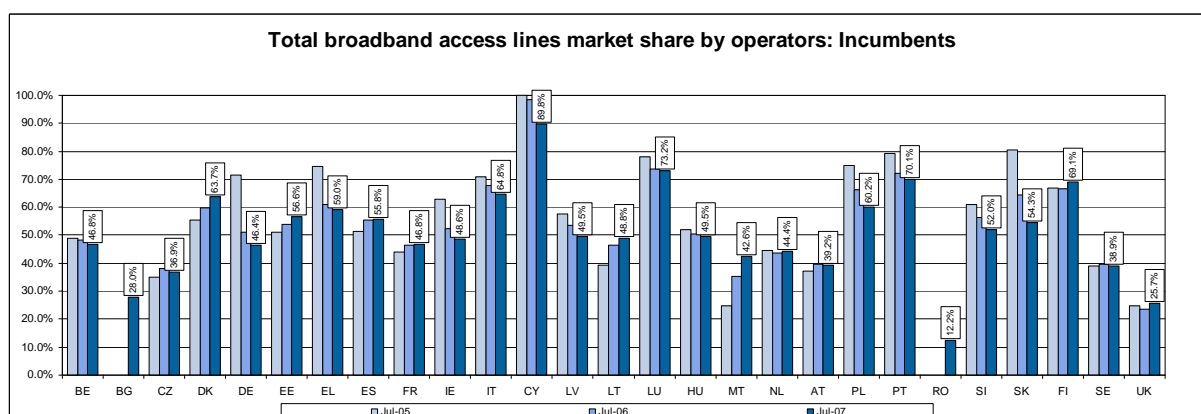
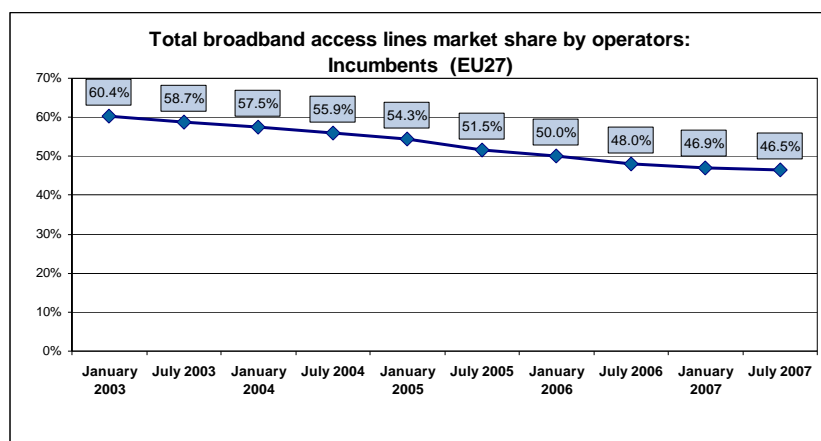
Broadband fixed lines using technologies other than DSL		
	Incumbents	New entrants
July 2007	7.4%	92.6%



Country	Incumbents	New entrants
BE	0.0%	100.0%
BG	0.1%	99.9%
CZ	0.0%	100.0%
DK	54.4%	45.6%
DE	6.2%	93.8%
EE	21.4%	78.6%
EL	39.0%	61.0%
ES	0.3%	99.7%
FR	0.0%	100.0%
IE	0.0%	100.0%
IT	5.4%	94.6%
CY	34.9%	65.1%
LV	0.3%	99.7%
LT	2.9%	97.1%
LU	12.5%	87.5%
HU	15.7%	84.3%
MT	0.0%	100.0%
NL	0.0%	100.0%
AT	0.0%	100.0%
PL	2.8%	97.2%
PT	64.9%	35.1%
RO	0.1%	99.9%
SI	0.1%	99.9%
SK	0.2%	99.8%
FI	61.9%	38.1%
SE	4.9%	95.1%
UK	0.0%	100.0%
EU25	8.1%	91.9%
EU27	7.4%	92.6%

## Broadband access in the EU as at 1 July 2007

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

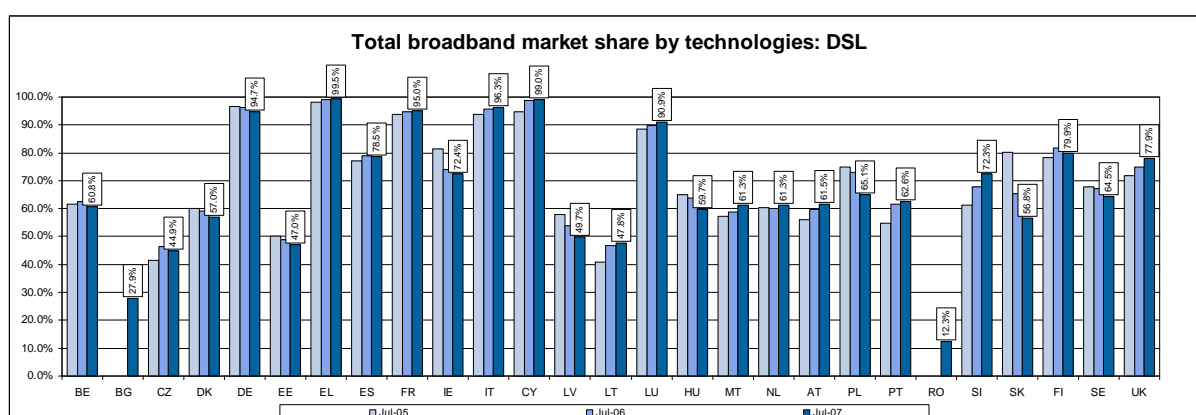
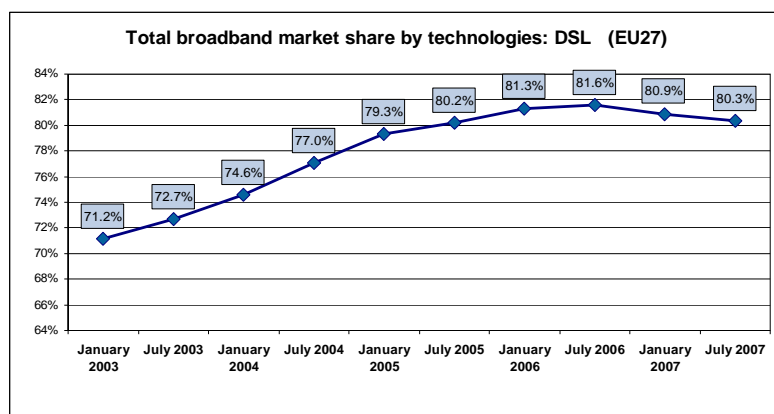


Country	Jan-03	Jul-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06	Jan-07	Jul-07
BE	50.5%	51.1%	53.2%	50.7%	49.6%	48.8%	48.3%	48.4%	47.8%	46.8%
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	27.6%	28.0%
CZ	n.a.	n.a.	14.9%	24.8%	44.3%	34.9%	42.3%	37.9%	37.2%	36.9%
DK	63.7%	62.0%	61.1%	58.5%	58.2%	55.4%	58.7%	59.7%	63.2%	63.7%
DE	92.6%	90.8%	88.0%	86.9%	80.4%	71.6%	60.1%	51.2%	48.0%	46.4%
EE	n.a.	65.0%	65.0%	50.5%	48.4%	51.1%	51.9%	53.7%	57.4%	56.6%
EL	17.8%	17.9%	72.3%	79.7%	74.8%	74.5%	69.6%	60.9%	63.1%	59.0%
ES	56.3%	55.5%	55.8%	55.5%	52.3%	51.5%	53.3%	55.4%	55.9%	55.8%
FR	62.7%	57.5%	54.8%	48.0%	44.7%	44.0%	44.8%	46.5%	46.2%	46.8%
IE	35.8%	44.9%	61.7%	70.0%	65.9%	63.0%	55.6%	52.4%	48.0%	48.6%
IT	64.5%	66.7%	68.9%	70.7%	73.1%	70.8%	71.7%	67.9%	66.6%	64.8%
CY	n.a.	n.a.	100.0%	100.0%	100.0%	100.0%	100.0%	98.5%	94.5%	89.8%
LV	n.a.	n.a.	n.a.	80.9%	69.6%	57.5%	52.6%	53.7%	44.3%	49.5%
LT	n.a.	33.8%	38.8%	36.2%	36.9%	39.4%	43.7%	46.5%	49.7%	48.8%
LU	90.5%	83.7%	79.3%	73.5%	77.7%	78.0%	75.8%	73.6%	74.1%	73.2%
HU	n.a.	n.a.	50.2%	51.3%	52.1%	51.9%	53.8%	50.6%	50.9%	49.5%
MT	n.a.	n.a.	n.a.	32.8%	25.6%	24.7%	30.6%	35.3%	38.2%	42.6%
NL	29.9%	36.1%	40.7%	44.4%	46.1%	44.5%	44.6%	43.7%	44.8%	44.4%
AT	31.7%	33.1%	33.9%	35.2%	36.1%	37.2%	39.7%	39.7%	39.7%	39.2%
PL	n.a.	n.a.	46.3%	49.5%	76.4%	74.9%	64.3%	66.2%	68.2%	60.2%
PT	70.7%	75.2%	78.5%	79.9%	80.7%	79.1%	76.3%	72.1%	71.1%	70.1%
RO	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	8.9%	12.2%
SI	n.a.	n.a.	65.2%	71.0%	63.3%	61.0%	60.5%	56.3%	52.9%	52.0%
SK	n.a.	n.a.	50.9%	68.3%	73.9%	80.5%	75.9%	64.3%	63.2%	54.3%
FI	74.0%	69.9%	73.5%	72.0%	72.3%	66.8%	66.4%	66.5%	69.7%	69.1%
SE	52.7%	43.1%	39.5%	38.8%	38.5%	39.1%	38.4%	39.6%	39.3%	38.9%
UK	22.6%	25.6%	26.4%	25.4%	25.1%	24.8%	24.8%	23.4%	23.7%	25.7%
EU25	60%	58.7%	57.5%	56%	54.30%	51.5%	50.0%	47.98%	47.52%	47.2%
EU27	60%	58.7%	57.5%	56%	54.3%	51.5%	50.0%	48.0%	46.91%	46.5%



## Broadband access in the EU as at 1 July 2007

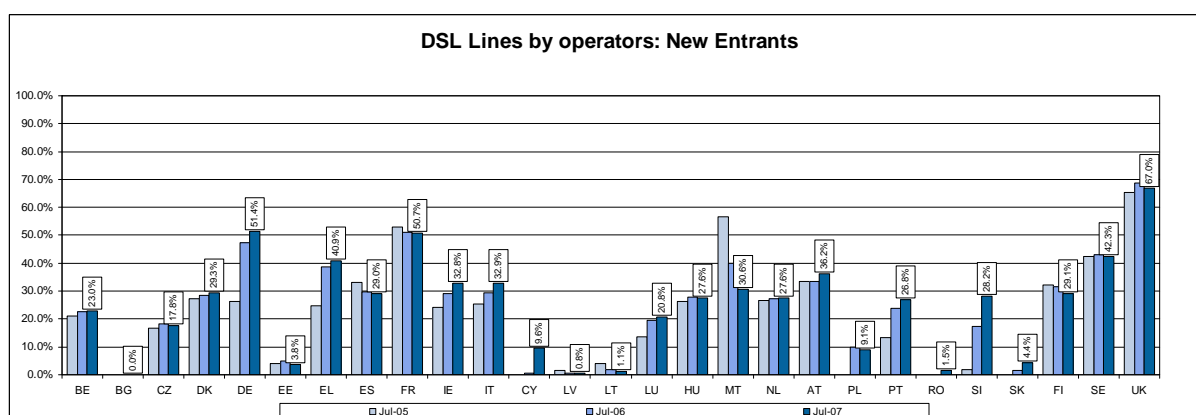
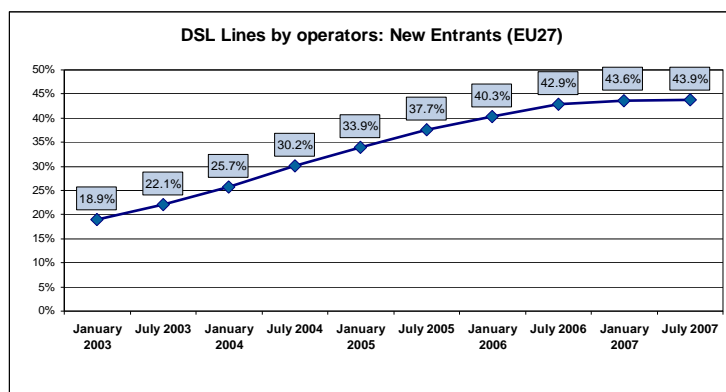
### Trends in fixed broadband access lines by technology in EU - DSL



Country	Jan-03	Jul-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06	Jan-07	Jul-07
BE	59.7%	60.0%	61.5%	61.6%	61.5%	61.7%	62.0%	62.4%	62.3%	60.8%
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	27.5%	27.9%
CZ	n.a.	n.a.	20.8%	29.8%	46.5%	41.5%	47.5%	46.4%	45.4%	44.9%
DK	66.8%	64.4%	65.0%	61.0%	61.5%	60.1%	62.1%	59.0%	61.7%	57.0%
DE	98.2%	97.8%	96.4%	97.6%	97.2%	96.5%	96.7%	96.2%	95.9%	94.7%
EE	n.a.	64.2%	64.2%	49.5%	46.6%	50.0%	46.8%	49.0%	48.6%	47.0%
EL	5.0%	16.7%	81.9%	90.4%	90.5%	98.2%	98.7%	99.0%	99.3%	99.5%
ES	73.4%	73.0%	75.2%	75.4%	75.4%	77.1%	77.9%	78.9%	79.1%	78.5%
FR	84.9%	87.0%	89.2%	91.4%	92.6%	93.8%	94.4%	94.7%	94.9%	95.0%
IE	44.5%	56.7%	71.7%	85.1%	83.7%	81.5%	73.1%	73.9%	73.3%	72.4%
IT	85.6%	87.5%	89.9%	92.0%	93.6%	93.7%	95.1%	95.7%	96.0%	96.3%
CY	n.a.	n.a.	99.7%	99.8%	94.9%	94.9%	94.1%	98.6%	99.1%	99.0%
LV	n.a.	n.a.	n.a.	79.1%	69.6%	57.9%	52.9%	53.8%	44.5%	49.7%
LT	n.a.	36.3%	40.7%	38.6%	39.3%	40.9%	44.8%	46.8%	49.6%	47.8%
LU	92.0%	87.1%	86.9%	87.3%	88.1%	88.7%	89.6%	89.7%	90.8%	90.9%
HU	n.a.	n.a.	62.7%	64.6%	65.6%	65.0%	66.6%	63.9%	61.7%	59.7%
MT	n.a.	n.a.	n.a.	83.2%	58.2%	57.3%	58.8%	58.8%	59.1%	61.3%
NL	34.1%	43.0%	51.3%	57.9%	61.1%	60.5%	62.0%	60.1%	61.2%	61.3%
AT	39.8%	42.6%	45.6%	50.3%	53.4%	56.0%	58.1%	59.6%	60.6%	61.5%
PL	n.a.	n.a.	46.3%	49.5%	76.4%	74.9%	71.9%	73.0%	74.9%	65.1%
PT	20.3%	29.1%	36.9%	44.2%	49.7%	54.6%	57.9%	61.5%	63.0%	62.6%
RO	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	9.0%	12.3%
SI	n.a.	n.a.	63.5%	70.5%	63.5%	61.2%	65.7%	67.8%	69.5%	72.3%
SK	n.a.	n.a.	50.9%	68.3%	73.9%	80.3%	75.8%	65.3%	65.2%	56.8%
FI	79.8%	80.9%	73.5%	69.9%	75.1%	78.3%	79.3%	81.6%	81.5%	79.9%
SE	59.1%	58.5%	58.9%	60.7%	63.8%	67.7%	67.0%	67.3%	65.9%	64.5%
UK	44.3%	49.9%	56.9%	62.6%	68.5%	71.7%	73.5%	74.9%	76.6%	77.9%
EU25	71%	72.7%	74.6%	77%	79.33%	80.2%	81.3%	81.59%	82.10%	81.7%
EU27	71%	72.7%	74.6%	77%	79.3%	80.2%	81.3%	81.6%	80.87%	80.3%

## Broadband access in the EU as at 1 July 2007

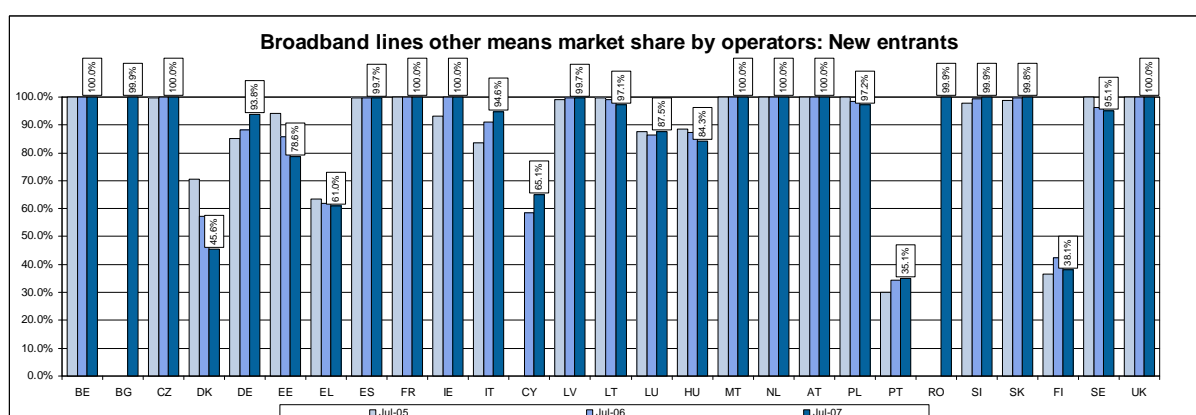
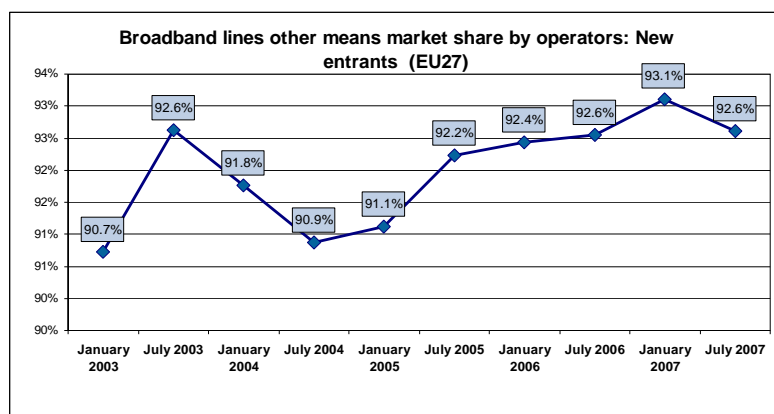
### Trends in DSL access lines by operator in EU – New entrants



Country	Jan-03	Jul-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06	Jan-07	Jul-07
BE	15.5%	15.0%	13.5%	17.7%	19.3%	20.9%	22.2%	22.5%	23.4%	23.0%
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.0%	0.0%
CZ	n.a.	n.a.	28.6%	16.7%	5.7%	16.6%	11.0%	18.3%	18.0%	17.8%
DK	18.9%	17.7%	21.3%	24.0%	25.2%	27.3%	28.1%	28.5%	28.7%	29.3%
DE	5.8%	7.3%	8.9%	11.1%	17.3%	26.3%	38.3%	47.2%	50.3%	51.4%
EE	n.a.	0.1%	0.1%	0.2%	0.1%	3.9%	2.1%	5.0%	3.5%	3.8%
EL	100.0%	100.0%	16.6%	13.7%	18.2%	24.7%	30.0%	38.8%	36.7%	40.9%
ES	23.3%	24.1%	25.8%	26.4%	30.7%	33.3%	31.8%	29.9%	29.4%	29.0%
FR	29.8%	37.1%	41.1%	49.4%	53.4%	53.1%	52.5%	50.9%	51.3%	50.7%
IE	19.5%	20.9%	23.7%	21.7%	23.2%	24.3%	25.1%	29.2%	34.5%	32.8%
IT	24.6%	23.8%	23.5%	23.8%	22.5%	25.5%	25.3%	29.4%	30.9%	32.9%
CY	n.a.	n.a.	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	5.0%	9.6%
LV	n.a.	n.a.	n.a.	0.0%	0.7%	1.4%	1.0%	0.6%	0.8%	0.8%
LT	n.a.	7.5%	5.1%	6.6%	6.4%	4.1%	2.6%	1.8%	1.2%	1.1%
LU	4.3%	7.3%	11.4%	18.2%	14.4%	13.6%	17.0%	19.5%	19.6%	20.8%
HU	n.a.	n.a.	27.2%	27.0%	26.9%	26.3%	25.6%	28.0%	27.1%	27.6%
MT	n.a.	n.a.	n.a.	60.5%	56.0%	56.8%	48.0%	39.9%	35.4%	30.6%
NL	12.3%	16.2%	20.6%	23.4%	24.5%	26.5%	28.2%	27.3%	26.8%	27.6%
AT	20.3%	22.4%	25.7%	29.9%	32.5%	33.6%	31.6%	33.4%	34.5%	36.2%
PL	n.a.	n.a.	0.0%	0.0%	0.0%	0.0%	11.4%	10.0%	9.6%	9.1%
PT	17.3%	15.6%	13.1%	11.3%	9.7%	13.2%	17.3%	23.9%	25.9%	26.8%
RO	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	2.3%	1.5%
SI	n.a.	n.a.	1.1%	1.7%	1.7%	1.8%	8.6%	17.3%	24.0%	28.2%
SK	n.a.	n.a.	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	3.2%	4.4%
FI	18.2%	24.0%	22.0%	23.4%	24.9%	32.3%	32.7%	31.5%	27.9%	29.1%
SE	27.9%	27.3%	33.8%	36.8%	40.4%	42.3%	42.7%	43.0%	42.1%	42.3%
UK	49.3%	48.8%	53.8%	59.5%	63.4%	65.4%	66.3%	68.8%	69.1%	67.0%
EU25	19%	22.1%	25.7%	30%	33.86%	37.7%	40.3%	42.88%	43.75%	44.1%
EU27	19%	22.1%	25.7%	30%	33.9%	37.7%	40.3%	42.9%	43.62%	43.9%

## Broadband access in the EU as at 1 July 2007

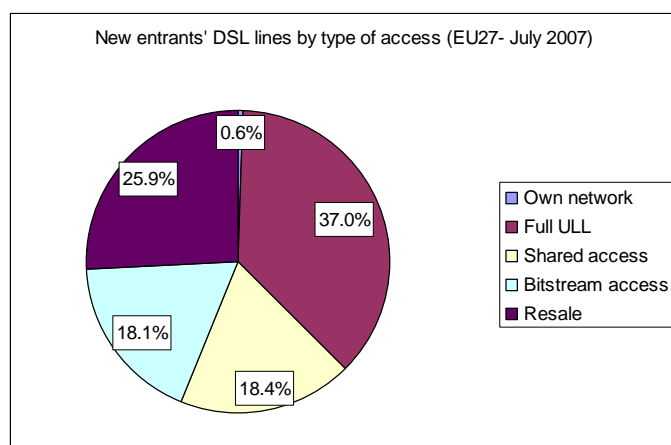
### Trends in broadband fixed lines using technologies other than DSL in EU – New entrants



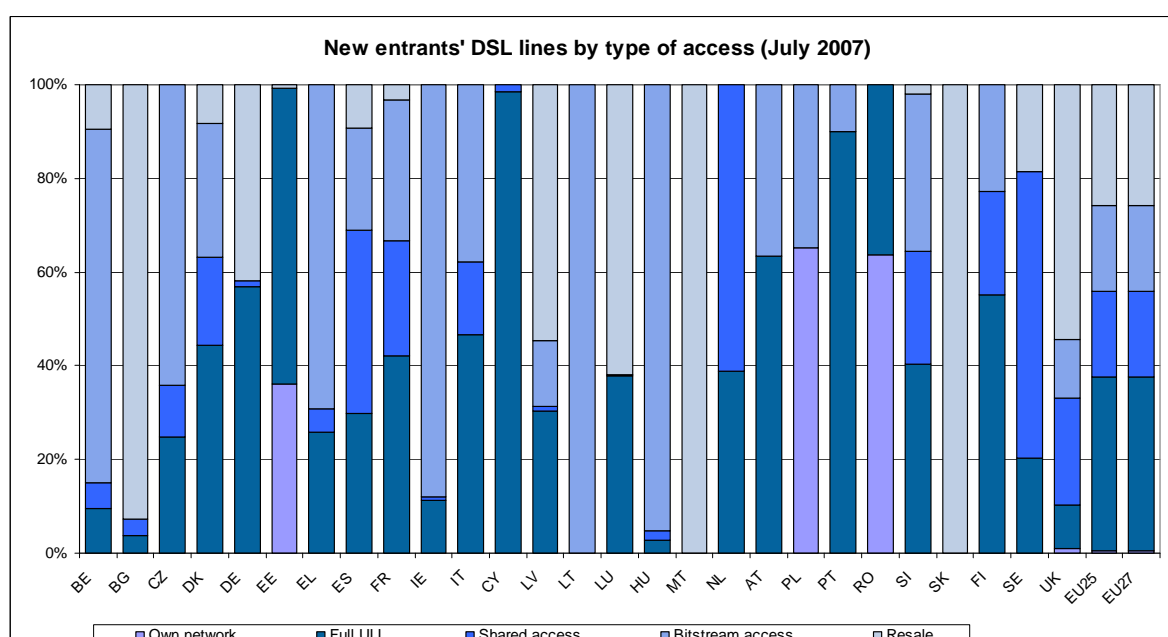
Country	Jan-03	Jul-03	Jan-04	Jul-04	Jan-05	Jul-05	Jan-06	Jul-06	Jan-07	Jul-07
BE	99.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	99.8%	99.9%
CZ	n.a.	n.a.	100.0%	100.0%	99.2%	99.6%	100.0%	100.0%	100.0%	100.0%
DK	71.3%	74.8%	71.6%	68.8%	68.4%	70.7%	63.0%	57.2%	50.0%	45.6%
DE	91.2%	94.0%	96.9%	96.2%	97.8%	85.2%	86.6%	88.3%	90.3%	93.8%
EE	n.a.	97.7%	97.7%	97.9%	96.6%	94.0%	88.6%	85.8%	79.7%	78.6%
EL	81.3%	78.5%	77.7%	81.5%	90.9%	63.4%	64.2%	61.8%	60.4%	61.0%
ES	100.0%	100.0%	99.9%	99.9%	99.7%	99.6%	99.5%	99.7%	99.7%	99.7%
FR	79.6%	78.7%	79.3%	79.3%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%
IE	100.0%	100.0%	75.1%	77.2%	89.8%	93.1%	96.9%	100.0%	100.0%	100.0%
IT	100.0%	99.9%	99.1%	92.8%	91.3%	83.6%	87.6%	91.1%	93.0%	94.6%
CY	n.a.	n.a.	0.0%	0.0%	0.0%	0.0%	0.0%	58.4%	53.6%	65.1%
LV	n.a.	n.a.	n.a.	91.4%	98.2%	99.1%	99.5%	99.6%	99.7%	99.7%
LT	n.a.	99.6%	99.7%	99.7%	99.8%	99.8%	99.8%	99.0%	98.5%	97.1%
LU	68.5%	77.1%	82.5%	83.5%	80.9%	87.7%	86.5%	86.4%	89.1%	87.5%
HU	n.a.	n.a.	87.7%	88.4%	88.0%	88.4%	87.4%	87.3%	84.7%	84.3%
MT	n.a.	n.a.	n.a.	100.0%	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%	100.0%	100.0%	100.0%	100.0%
AT	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
PL	n.a.	n.a.	100.0%	100.0%	100.0%	100.0%	97.7%	98.5%	98.2%	97.2%
PT	32.4%	28.5%	26.5%	27.1%	28.8%	30.1%	32.5%	34.3%	33.9%	35.1%
RO	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	100.0%	99.9%
SI	n.a.	n.a.	93.3%	94.2%	97.4%	97.8%	98.7%	99.3%	99.6%	99.9%
SK	n.a.	n.a.	100.0%	100.0%	100.0%	98.9%	99.4%	99.7%	99.7%	99.8%
FI	56.8%	56.1%	39.1%	38.9%	36.3%	36.7%	37.2%	42.5%	41.0%	38.1%
SE	75.3%	98.6%	98.8%	98.9%	98.6%	100.0%	100.0%	96.3%	96.7%	95.1%
UK	99.8%	99.8%	99.8%	99.8%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%
EU25	91%	92.6%	91.8%	91%	91.13%	92.2%	92.4%	92.55%	92.51%	91.9%
EU27	91%	92.6%	91.8%	91%	91.1%	92.2%	92.4%	92.6%	93.11%	92.6%

## Broadband access in the EU as at 1 July 2007

### New entrants DSL lines by access type in EU



July 2007	
Own network	0.6%
Full ULL	37.0%
Shared access	18.4%
Bitstream access	18.1%
Resale	25.9%
Total L.L.U	55.4%



New entrants' DSL lines by type of access (July 2007)					
Country	Own network	Full ULL	Shared access	Bitstream access	Resale
Country	PSTN DSL New ON	PSTN DSL New FULL	PSTN DSL New SA	PSTN DSL New BA	PSTN DSL New Resale
BE	0.0%	9.6%	5.3%	75.6%	9.5%
BG	0.0%	3.6%	3.6%	0.0%	92.7%
CZ	0.0%	24.8%	11.0%	64.1%	0.0%
DK	0.0%	44.4%	18.8%	28.6%	8.3%
DE	0.0%	56.8%	1.4%	0.0%	41.8%
EE	36.1%	63.1%	0.0%	0.0%	0.8%
EL	0.0%	25.9%	4.9%	69.2%	0.0%
ES	0.0%	29.7%	39.1%	22.0%	9.2%
FR	0.0%	42.1%	24.7%	30.0%	3.2%
IE	0.0%	11.3%	0.7%	88.0%	0.0%
IT	0.0%	46.7%	15.5%	37.8%	0.0%
CY	0.0%	98.6%	1.4%	0.0%	0.0%
LV	0.0%	30.4%	1.0%	13.9%	54.7%
LT	0.0%	0.0%	0.0%	100.0%	0.0%
LU	0.1%	37.6%	0.5%	0.0%	61.8%
HU	0.0%	2.8%	1.9%	95.3%	0.0%
MT	0.0%	0.0%	0.0%	0.0%	100.0%
NL	0.0%	38.8%	61.2%	0.0%	0.0%
AT	0.0%	63.3%	0.0%	36.6%	0.0%
PL	65.1%	0.0%	0.0%	34.9%	0.0%
PT	0.0%	90.1%	0.0%	9.9%	0.0%
RO	63.8%	36.2%	0.0%	0.0%	0.0%
SI	0.0%	40.3%	24.2%	33.6%	2.0%
SK	0.0%	0.0%	0.0%	0.0%	100.0%
FI	0.0%	55.3%	21.9%	22.9%	0.0%
SE	0.0%	20.2%	61.3%	0.0%	18.5%
UK	1.0%	9.1%	23.0%	12.5%	54.3%
EU25	0.6%	37.0%	18.4%	18.1%	25.9%
EU27	0.6%	37.0%	18.4%	18.1%	25.9%

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

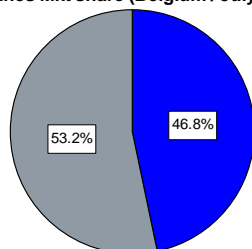
Information about BG and RO is available only since January 2007. In some instances information is not available.

## Retail fixed broadband access in Belgium, July 2007

	New entrants' DSL lines on PSTN							Incumbents' access lines by other means							New entrants' access lines by other means										Public access WiFi Hotspots	
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants' DSL lines	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	336291	0	204	63	70	54819	65156	0	0	940	0	0	0	7	0	947	26	283333	4056	0	0	0	155	0	28570	
January 2003	442310	0	1432	134	333	79410	81309	0	0	940	0	0	0	212	0	1158	26	349542	2849	0	0	0	170	0	352587	
July 2003	534008	0	1491	219	2769	87543	93942	0	0	44	0	0	0	0	0	50	1	419517	2178	0	0	0	51	0	417847	
January 2004	691698	0	1359	2314	42340	97562	105725	0	0	16	0	0	0	0	0	19	0	477745	1734	0	0	0	58	0	47537	
July 2004	731809	0	2849	2306	80511	71818	157485	0	0	16	0	0	0	0	0	16	7	553584	1734	0	0	0	38	0	555363	
January 2005	803638	0	3178	2416	110688	76198	192480	0	0	41	0	0	0	0	0	41	8	622777	1771	0	0	0	41	0	623597	
July 2005	890393	0	3972	1974	156978	70529	233340	0	0	41	0	0	0	0	0	41	70	688375	1559	0	0	0	76	0	690451	
January 2006	970668	0	4205	2010	186118	74470	278803	0	0	0	0	0	0	0	0	3997	757388	2047	0	0	0	81	0	763113		
July 2006	1051090	0	6451	4264	238381	55841	304917	0	0	117	0	0	0	0	0	117	3597	812525	0	0	0	0	0	1228		
January 2007	1124673	0	22368	2189	257719	42183	343349	0	0	0	0	0	0	0	0	896	6968	876380	834	14	0	0	653	0	886829	
July 2007	1174444	0	33686	18659	265347	35199	350891	0	0	0	0	0	0	0	0	0	8349	974269	1384	13	0	0	106	0	984121	

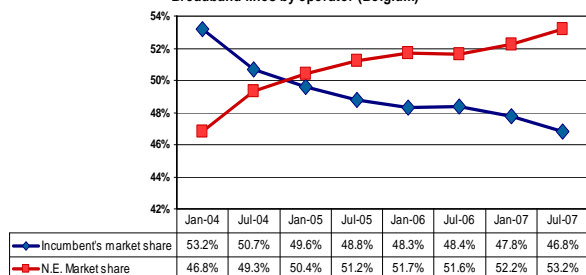
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share-DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	337244	48.7%	354726	51.3%	401453	58.0%	290517	42.0%	691970
January 2003	443468	50.5%	433896	49.5%	523619	59.7%	353745	40.3%	877364
July 2003	534058	51.1%	511809	48.9%	627970	60.0%	417897	40.0%	1045867
January 2004	661624	53.2%	583112	46.8%	765183	61.5%	479553	38.5%	1244736
July 2004	731825	50.7%	712848	49.3%	889294	61.6%	555379	38.4%	1444673
January 2005	803679	49.6%	816077	50.4%	996118	61.5%	623638	38.5%	1619756
July 2005	880434	48.8%	923699	51.2%	1113641	61.7%	690492	38.3%	1804133
January 2006	970668	48.3%	1039916	51.7%	1247471	62.0%	763113	38.0%	2010584
July 2006	1051207	48.4%	1121039	51.6%	1356007	62.4%	816239	37.6%	2172246
January 2007	1124673	47.8%	1230177	52.2%	1468021	62.3%	886829	37.7%	2354850
July 2007	1174444	46.8%	1335012	53.2%	1525335	60.8%	984121	39.2%	2509456

BB lines Mkt share (Belgium / July 2007)

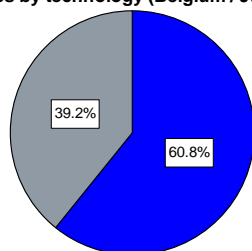


■ Incumbents ■ N.E.

Broadband lines by operator (Belgium)

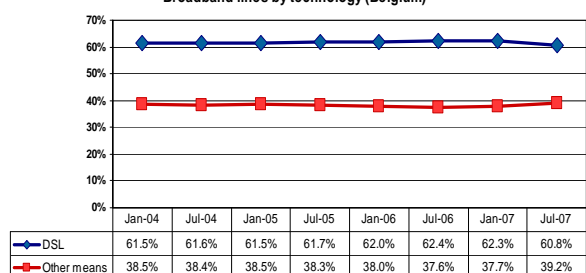


BB lines by technology (Belgium / July 2007)

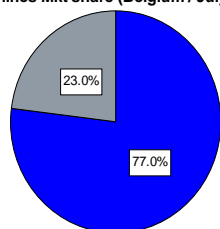


■ DSL ■ Other

Broadband lines by technology (Belgium)

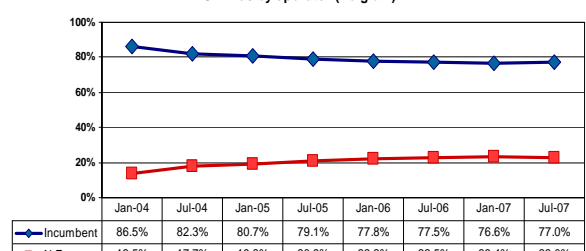


DSL lines Mkt share (Belgium / July 2007)

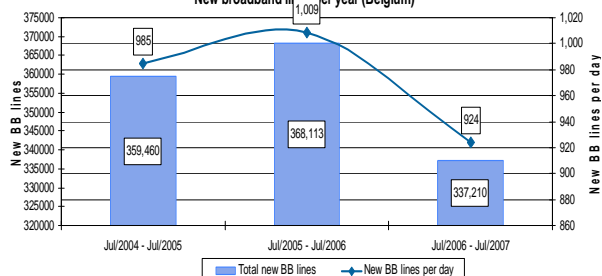


■ Incumbents ■ N.E.

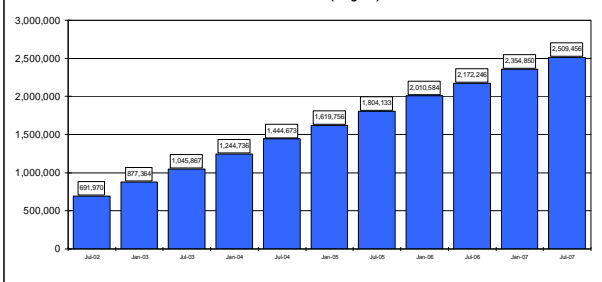
DSL lines by operator (Belgium)



New broadband lines per year (Belgium)



Broadband lines (Belgium)

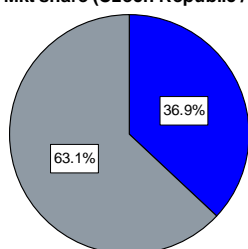


## Retail fixed broadband access in Czech Republic, July 2007

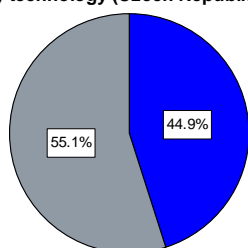
	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means																	
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Blstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	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)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002																																		
January 2003																																		
July 2003	15000	0	0	0	0	0	6000	6000	0	0	0	0	0	0	0	0	0	45000	35000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85000
January 2004	30000	0	0	0	0	0	6000	6000	0	0	0	0	0	0	0	0	0	45000	40000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85000
July 2004	100000	0	0	0	0	0	6000	6000	1000	0	0	0	0	0	0	0	1000	60000	60000	0	1200	0	0	0	0	0	0	0	0	0	0	0	0	121200
January 2005	151000	0	0	0	0	0	30000	30000	1000	0	0	0	0	0	0	0	1000	160000	90000	0	0	4000	0	0	0	0	0	0	0	0	0	0	0	254000
July 2005	275000	0	0	0	0	0	34000	34000	0	0	0	0	0	0	0	0	0	188000	138000	0	11000	4000	0	0	0	0	0	0	0	0	0	0	0	341000
January 2006	326411	0	4446	8596	60025	0	73067	0	0	0	0	0	0	0	55	0	242000	200000	0	15000	4000	30	0	2175	0	0	0	0	0	0	0	0	461030	
July 2006	404570	0	14900	9000	65000	0	88900	0	0	0	0	0	0	0	200	0	350000	216000	0	24000	4000	50	0	2780	0	0	0	0	0	0	0	0	594050	
January 2007	462369	0	24800	11000	64000	0	99800	0	0	0	0	0	0	100	0	200	100	400000	260000	0	26000	4000	100	0	2850	0	0	0	0	0	0	0	690100	

	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									
January 2003									
July 2003									
January 2004	15000	14.9%	86000	85.1%	21000	20.8%	80000	79.2%	101000
July 2004	30000	24.8%	91000	75.2%	36000	29.8%	85000	70.2%	121000
January 2005	101000	44.3%	127200	55.7%	106000	46.5%	122200	53.5%	228200
July 2005	152000	34.9%	284000	65.1%	181000	41.5%	255000	58.5%	436000
January 2006	275000	42.3%	375000	57.7%	309000	47.5%	341000	52.5%	650000
July 2006	326411	37.9%	534097	62.1%	399478	46.4%	461030	53.6%	860508
January 2007	404570	37.2%	682950	62.8%	493470	45.4%	594050	54.6%	1087520
July 2007	462369	36.9%	789900	63.1%	562069	44.9%	690200	55.1%	1252269

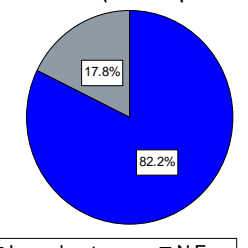
BB lines Mkt share (Czech Republic / July 2007)



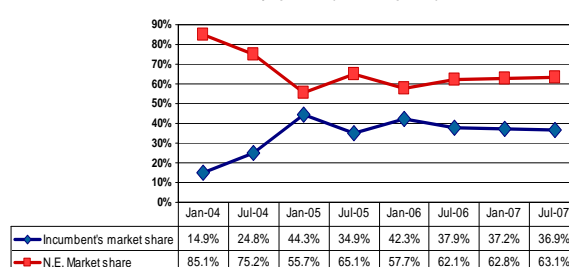
BB lines by technology (Czech Republic / July 2007)



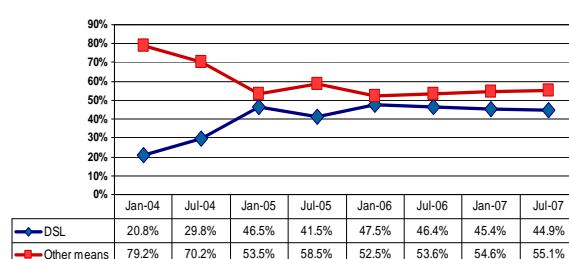
DSL lines Mkt share (Czech Republic / July 2007)



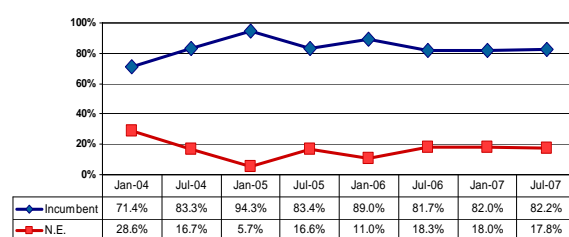
Broadband lines by operator (Czech Republic)



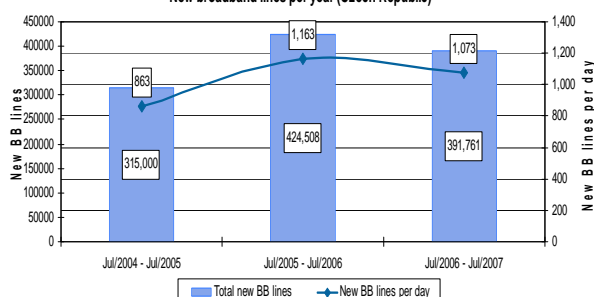
Broadband lines by technology (Czech Republic)



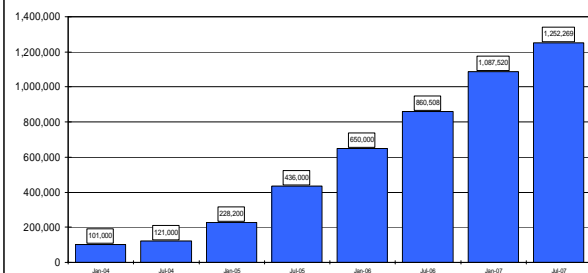
DSL lines by operator (Czech Republic)



New broadband lines per year (Czech Republic)



Broadband lines (Czech Republic)



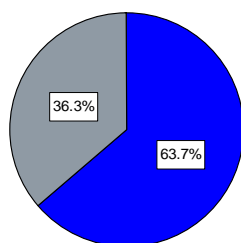
## Retail fixed broadband access in Denmark, July 2007

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)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)		
July 2002	18460	0	42028	5403	250	0	47881	0	40299	3489	0	0	0	0	0	43788	719	87769	5887	0	0	0	0	0	0	43788	1415	100249	5887	0	0	0	1390	0	108941	
January 2003	249033	0	46162	8672	3077	0	57911	0	40299	3489	0	0	0	0	0	43788	1415	100249	5887	0	0	0	0	0	0	43788	1415	100249	5887	0	0	0	1390	0	108941	
July 2003	321645	0	47911	11859	9277	0	69047	0	50809	3604	0	0	0	0	0	54413	1760	118378	6270	0	0	0	0	0	0	54413	1760	118378	6270	0	0	0	34944	0	161352	
January 2004	327677	0	47059	16180	37446	0	100892	0	68245	3921	0	0	0	0	0	72168	2341	137968	5175	0	0	0	0	0	0	72168	2341	137968	5175	0	0	0	36997	0	182341	
July 2004	427322	0	49884	27749	57054	0	134687	0	108532	3804	0	0	0	0	1685	0	112021	3007	160353	5245	0	0	0	0	0	0	112021	3007	160353	5245	0	0	0	78842	0	247447
January 2005	478089	0	49912	41183	69777	0	160872	0	120818	3840	0	0	0	0	1894	0	128552	3678	175803	4324	0	0	0	0	0	0	128552	3678	175803	4324	0	0	0	90060	0	273865
July 2005	519377	0	55553	52933	76380	10286	195152	0	139268	3284	0	0	0	3036	0	138045	3128	192233	4981	8759	4	88	110584	0	138045	3128	192233	4981	8759	4	88	110584	0	334555		
January 2006	597035	0	62179	79415	81979	10089	233662	3477	177394	3349	0	0	0	3431	711	187650	5822	212207	4953	11841	111	105	83201	288	187650	5822	212207	4953	11841	111	105	83201	288	319240		
July 2006	677154	0	80629	87540	83368	18986	270423	6126	268459	2867	0	0	0	4787	708	282150	17879	222510	4536	19574	146	95	112032	281	282150	17879	222510	4536	19574	146	95	112032	281	376762		
January 2007	750251	203	124750	83726	81233	21789	301568	3621	278370	6173	0	0	0	4727	765	325881	20733	216313	563	17441	149	98	70190	223	325881	20733	216313	563	17441	149	98	70190	223	425795		
July 2007	815991	116	150262	63604	96772	28030	338784	168307	289181	9481	0	0	0	7119	754	474087	23731	237749	1605	28625	7	94	105165	279	474087	23731	237749	1605	28625	7	94	105165	279	596976		

DK – data includes 170,262 subscriptions to access on multiple locations (Hotspots)

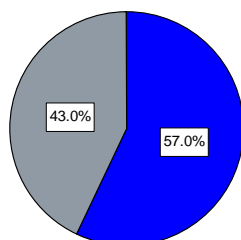
	Incumbents Broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share-DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	228388	61.6%	142075	38.4%	232281	62.7%	138182	37.3%	370463
January 2003	292821	63.7%	166852	36.3%	306944	66.8%	152729	33.2%	459673
July 2003	376058	62.0%	230399	38.0%	390692	64.4%	215765	35.6%	606457
January 2004	444843	61.1%	283063	38.9%	473359	65.0%	254547	35.0%	727906
July 2004	539343	58.5%	382134	41.5%	562009	61.0%	359468	39.0%	921477
January 2005	604641	58.2%	434737	41.8%	638961	61.5%	400417	38.5%	1039378
July 2005	658323	55.4%	530108	44.6%	714529	60.1%	473902	39.9%	1188431
January 2006	784685	58.7%	552902	41.3%	830697	62.1%	506890	37.9%	1337587
July 2006	959346	59.7%	647185	40.3%	947577	59.0%	658954	41.0%	1606531
January 2007	1076142	63.2%	627463	36.8%	1051919	61.7%	651686	38.3%	1703605
July 2007	1289778	63.7%	735760	36.3%	1154475	57.0%	871063	43.0%	2025538

BB lines Mkt share (Denmark / July 2007)



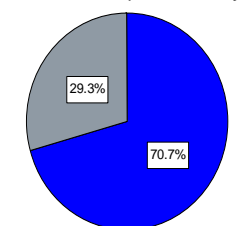
■ Incumbents ■ N.E.

BB lines by technology (Denmark / July 2007)



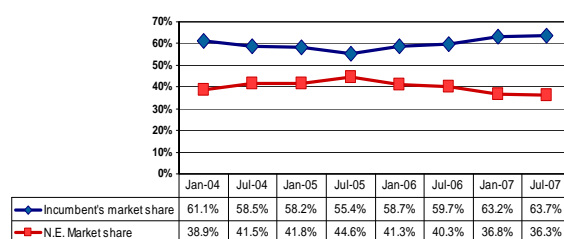
■ DSL ■ Other

DSL lines Mkt share (Denmark / July 2007)

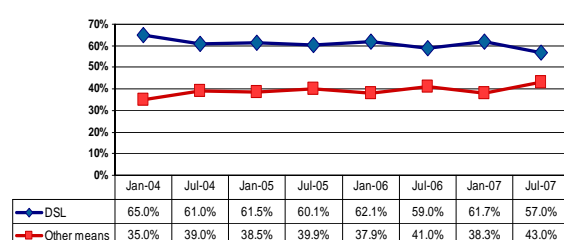


■ Incumbents ■ N.E.

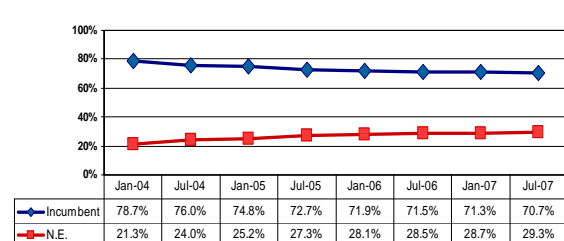
Broadband lines by operator (Denmark)



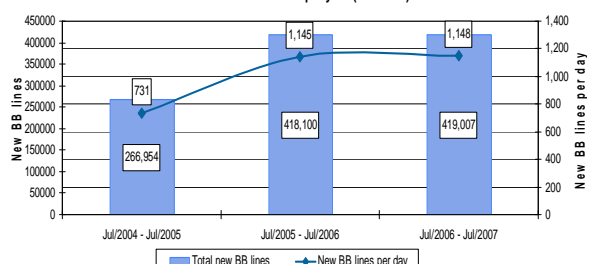
Broadband lines by technology (Denmark)



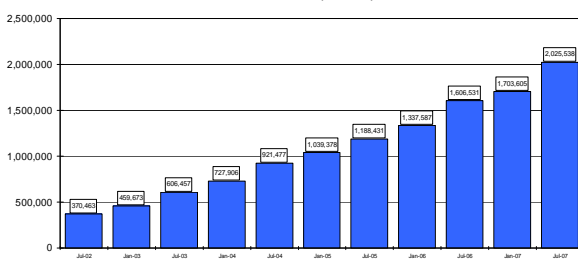
DSL lines by operator (Denmark)



New broadband lines per year (Denmark)



Broadband lines (Denmark)



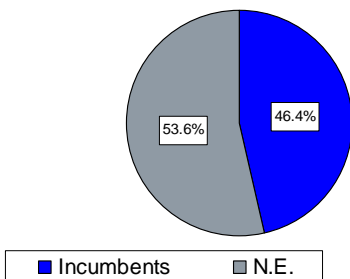


## Retail fixed broadband access in Germany, July 2007

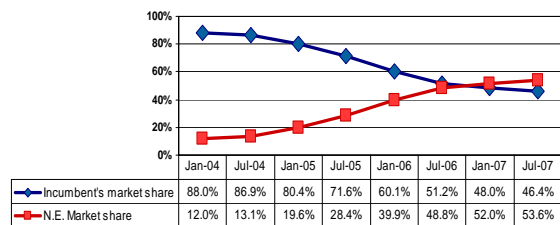
	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means									
	Incumbent's DSL lines	Own network	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	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	2453000	0	117000	11	0	117011	0	0	0	0	0	0	0	0	0	0	38000	0	0	0	0	0	0	41000		
January 2003	3000000	0	185000	15	0	185015	0	0	0	0	0	0	0	0	0	5215	45000	0	0	0	0	0	0	54200		
July 2003	3600000	0	284000	20	0	284020	0	0	0	0	0	0	0	0	0	5252	n.a.	53000	0	23500	6000	0	0	82000		
January 2004	4100000	0	389000	86	0	389086	0	0	0	0	0	0	0	0	0	5171	62000	0	56000	42000	8200	0	0	164200		
July 2004	4700000	0	586141	0	0	586141	0	0	0	4906	0	0	0	0	0	4906	0	70000	0	45000	9200	0	0	124200		
January 2005	5550000	0	811000	2683	0	2460000	1158683	0	0	4378	0	0	0	0	0	4378	0	145000	0	0	36800	8300	0	0	191100	
July 2005	6300000	0	1400000	3941	0	7350000	2138411	0	0	47015	0	0	0	0	0	43828	0	136000	0	0	47000	9600	0	0	253300	
January 2006	6300000	0	2300000	6000	1500	1600000	3807500	0	0	44000	0	0	0	0	0	47000	0	240000	0	0	54000	9600	0	0	303600	
July 2006	8400000	0	3200000	27000	1500	2500000	5728500	0	0	53000	0	0	0	0	0	53000	0	360000	0	0	54000	9600	0	3700	423600	
January 2007	7100000	5000	3800000	8500	0	3200000	7190000	0	0	64000	0	0	0	0	0	8500	0	490000	0	0	53400	9500	0	1100	552900	
July 2007	8010000	0	4810000	116000	0	3540000	8466000	0	0	54100	0	0	0	0	0	8600	0	57100	0	0	57000	9600	0	0	668400	

	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	2453000	93.9%	158011	6.1%	2570011	98.4%	41000	1.6%	2611011
January 2003	3005215	92.6%	239215	7.4%	3185015	98.2%	59415	1.8%	3244430
July 2003	3605262	90.8%	366020	9.2%	3884020	97.8%	87262	2.2%	3971282
January 2004	4105171	88.0%	562286	12.0%	4498086	96.4%	169371	3.6%	4667457
July 2004	4704906	86.9%	710341	13.1%	5286141	97.6%	129106	2.4%	5415247
January 2005	5554376	80.4%	1350783	19.6%	6709683	97.2%	195476	2.8%	6905159
July 2005	6043828	71.6%	2391541	28.4%	8138941	96.5%	296428	3.5%	8435369
January 2006	6347000	60.1%	4211100	39.9%	10207500	96.7%	350600	3.3%	10558100
July 2006	6456300	51.2%	6152100	48.8%	12128500	96.2%	479900	3.8%	12608400
January 2007	7159300	48.0%	7742900	52.0%	14290000	95.9%	612200	4.1%	14902200
July 2007	8067103	46.4%	9334400	53.6%	16476000	94.7%	925503	5.3%	17401503

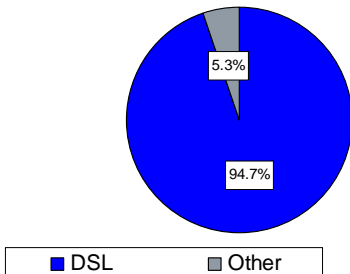
BB lines Mkt share (Germany / July 2007)



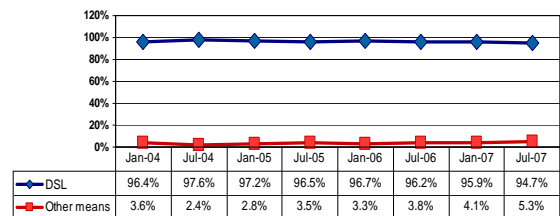
Broadband lines by operator (Germany)



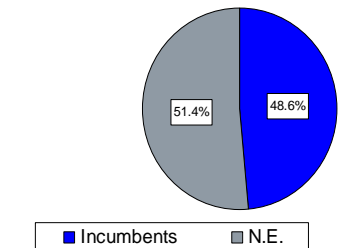
BB lines by technology (Germany / July 2007)



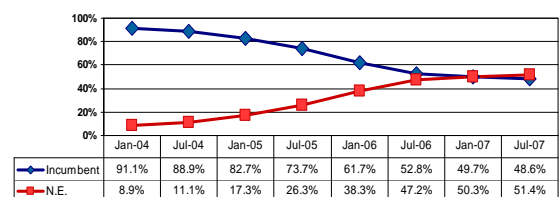
Broadband lines by technology (Germany)



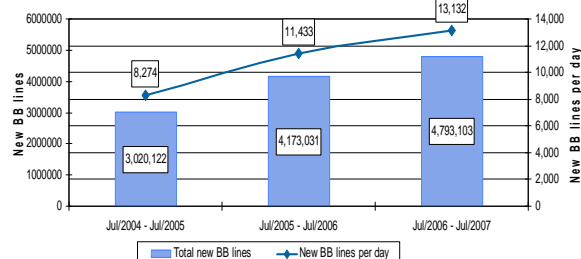
DSL lines Mkt share (Germany / July 2007)



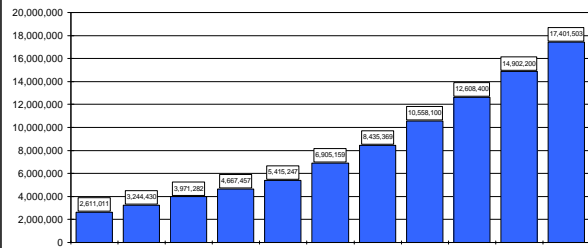
DSL lines by operator (Germany)



New broadband lines per year (Germany)



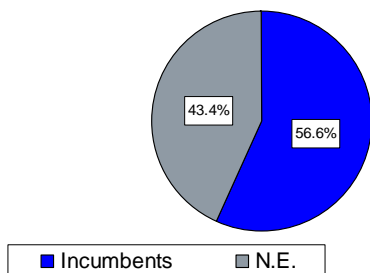
Broadband lines (Germany)



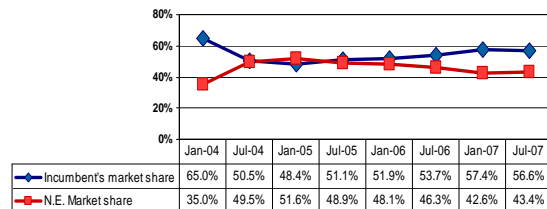
## Retail fixed broadband access in Estonia, July 2007

	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																										
January 2003	37537	0	0	0	0	0	21	21	300	0	0	180	0	0	0	0	480	852	18798	0	827	0	0	0	20477	
July 2003	37537	0	0	0	0	0	21	21	300	0	0	180	0	0	0	0	480	852	18798	0	827	0	0	0	20477	
January 2004	50780	0	51	0	0	0	75	126	583	0	191	322	0	0	0	0	1096	1735	36888	0	2207	0	0	9939	50769	
July 2004	64542	0	61	0	0	0	25	86	720	0	150	1664	0	0	0	0	2534	2346	43232	0	8019	0	0	17858	71455	
January 2005	72216	0	2854	0	0	0	63	297	829	0	0	3638	0	0	115	0	4502	1515	41324	0	14198	0	0	13574	59811	
July 2005	82135	0	1685	0	0	0	60	1745	1113	0	0	9700	0	0	83	0	10896	3480	49480	963	19669	0	0	10736	64329	
January 2006	103649	3358	2100	0	0	0	50	5508	1256	0	0	13680	0	0	1256	107	16192	6268	53088	0	22035	0	0	16247	735	
July 2006	115933	1066	3074	0	0	0	40	4188	3100	0	0	23007	0	0	163	130	25770	6152	59183	0	18378	0	0	17286	774	
January 2007	121588	1711	2988	0	0	0	40	4739	4952	0	0	25018	0	0	428	150	30388	7930	63915	0	22717	0	0	17299	965	
																				</						

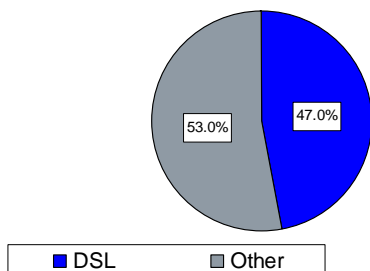
BB lines Mkt share (Estonia / July 2007)



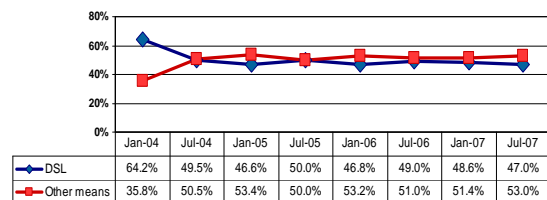
Broadband lines by operator (Estonia)



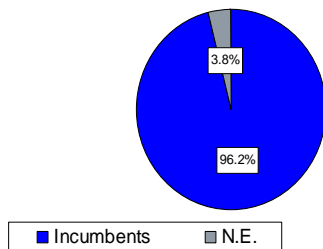
BB lines by technology (Estonia / July 2007)



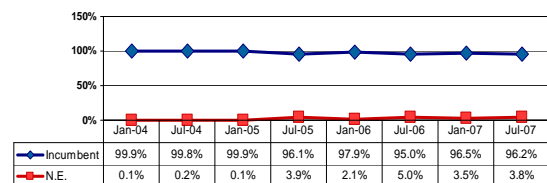
Broadband lines by technology (Estonia)



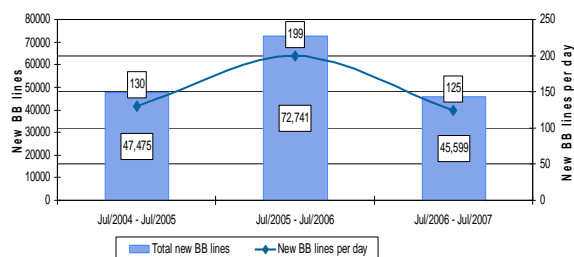
DSL lines Mkt share (Estonia / July 2007)



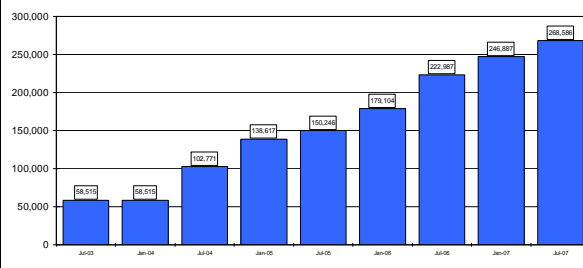
DSL lines by operator (Estonia)



New broadband lines per year (Estonia)



Broadband lines (Estonia)

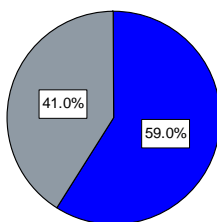


## Retail fixed broadband access in Greece, July 2007

	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)	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	367
January 2003	0	0	93	0	0	0	93	0	0	0	0	0	0	0	0	0	0	330	201	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1433
July 2003	0	0	359	0	0	0	359	0	0	0	0	0	0	0	0	0	0	359	208	5	0	0	0	0	0	0	0	0	0	0	0	0	2	1410
January 2004	7159	0	650	5	774	0	1428	0	0	0	0	0	0	0	0	0	0	423	121	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1792
July 2004	15751	0	932	160	2054	0	3146	0	0	0	0	0	0	0	0	0	0	453	180	0	1815	0	0	0	0	0	0	0	0	0	0	0	0	1696
January 2005	38057	0	1787	928	5775	0	8490	0	0	0	0	0	0	0	0	0	0	1447	523	0	4233	0	0	0	0	0	0	0	0	0	0	0	0	446
July 2005	69136	0	3623	1405	17505	0	22733	0	0	0	0	0	0	0	0	0	0	627	297	0	564	226	0	0	0	0	0	0	0	0	0	0	0	1087
January 2006	110670	0	5018	1866	40439	0	47323	0	0	0	0	0	0	0	0	0	0	760	419	0	721	220	0	0	0	0	0	0	0	0	0	0	0	1360
July 2006	179829	0	6836	4144	103217	0	114197	0	0	0	0	0	0	0	0	0	0	1171	491	0	1021	121	0	0	0	0	0	0	0	0	0	0	0	1960
January 2007	336432	0	12176	7328	158415	0	177919	0	0	0	0	0	0	0	0	0	0	14	1414	643	0	1036	475	0	0	0	0	0	0	0	0	0	0	2154
July 2007	447394	0	80056	15322	214240	0	305618	0	0	0	0	0	0	0	0	0	0	14	1499	1029	0	772	546	0	0	0	0	0	0	0	0	0	0	2347

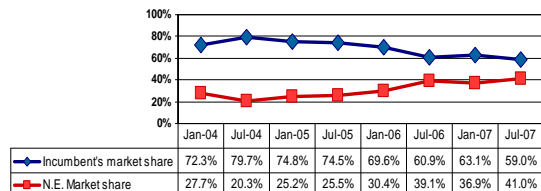
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	0	0.0%	460	100.0%	93	20.2%	367	79.8%	460
January 2003	330	17.8%	1526	82.2%	93	5.0%	1763	95.0%	1856
July 2003	386	17.9%	1769	82.1%	359	16.7%	1796	83.3%	2155
January 2004	7582	72.3%	2901	27.7%	8588	81.9%	1895	18.1%	10483
July 2004	20244	79.7%	5142	20.3%	22937	90.4%	2449	9.6%	25386
January 2005	38504	74.8%	12951	25.2%	46547	90.5%	4908	9.5%	51455
July 2005	69763	74.5%	23820	25.5%	91869	98.2%	1714	1.8%	93583
January 2006	111430	69.6%	48683	30.4%	157993	98.7%	2120	1.3%	160113
July 2006	181000	60.9%	116090	39.1%	294026	99.0%	3064	1.0%	297090
January 2007	307816	63.1%	180073	36.9%	484321	99.3%	3568	0.7%	487889
July 2007	448893	59.0%	311965	41.0%	757012	99.5%	3846	0.5%	760858

BB lines Mkt share (Greece / July 2007)

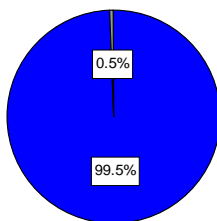


■ Incumbents ■ N.E.

Broadband lines by operator (Greece)

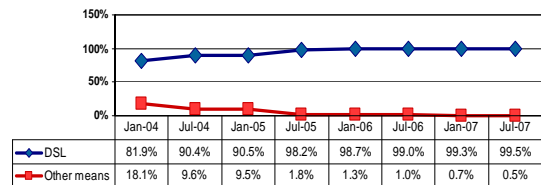


BB lines by technology (Greece / July 2007)

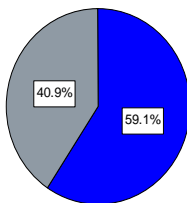


■ DSL ■ Other

Broadband lines by technology (Greece)

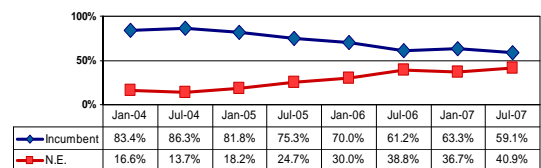


DSL lines Mkt share (Greece / July 2007)

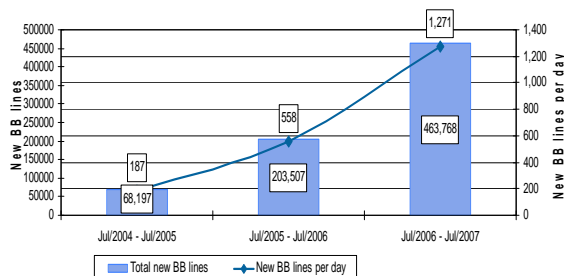


■ Incumbents ■ N.E.

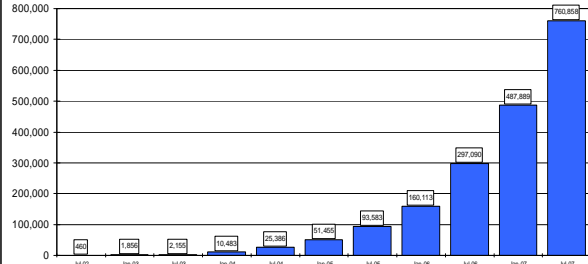
DSL lines by operator (Greece)



New broadband lines per year (Greece)



Broadband lines (Greece)

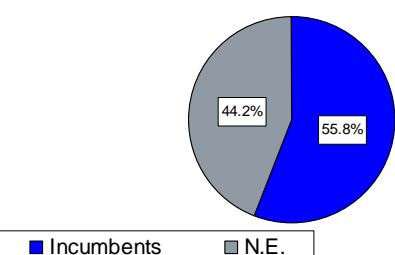


## Retail fixed broadband access in Spain, July 2007

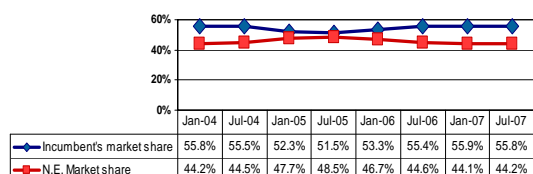
	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means										Public access		Total (exc. WiFi)
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased 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	500143	0	0	0	143482	0	143482	0	0	0	0	0	0	0	0	0	427	170285	0	0	0	0	0	0	0	170712			
January 2003	734087	0	0	0	223117	n.a.	223117	0	0	0	0	0	0	0	0	0	0	56076	273614	5352	0	0	0	12524	0	347566			
July 2003	965053	0	3994	0	388514	0	312510	0	0	0	0	0	0	0	0	0	0	58145	404473	5501	0	0	0	12736	0	478855			
January 2004	1243594	0	16011	5	416856	0	432872	54	0	0	0	755	0	0	0	0	809	5104	539754	5962	881	2	0	91	0	550894			
July 2004	1535179	0	40302	214	508548	0	559993	214	0	0	0	755	0	0	0	0	969	6979	660881	7879	1367	224	1888	1168	0	690486			
January 2005	1804035	0	77418	36536	686028	0	799982	350	0	0	0	2581	0	0	0	0	2031	8903	817737	11076	1818	1784	3055	1555	0	845708			
July 2005	2183994	0	121842	175119	793647	0	1087606	684	0	0	0	3127	0	0	0	0	3811	9243	935886	12474	1532	2009	4491	1891	0	967926			
January 2006	2671638	0	155731	279329	809038	0	1243798	1549	0	0	0	4023	0	0	0	0	5572	11003	1052996	32659	3095	1047	3143	1983	0	1105926			
July 2006	3198979	0	292822	388324	106584	247849	1323775	0	0	0	0	3883	0	0	0	0	2002	21468	1163958	12515	4536	1168	4118	2839	45	1219473			
January 2007	3717667	6207	411286	527723	404214	195520	1548950	0	0	0	0	4290	0	0	0	0	2181	4290	10658	1350101	15023	2681	1989	3165	2137	35	1385758		
July 2007	4171364	0	505249	664460	373712	156734	1700155	0	0	0	0	4922	0	0	0	0	4922	12246	1562514	17743	5336	843	1600	3619	0	1603901			

	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	500143	61.4%	314194	38.6%	643625	79.0%	170712	21.0%	814337
January 2003	734087	56.3%	570683	43.7%	957204	73.4%	347566	26.6%	1304770
July 2003	985053	55.5%	791365	44.5%	1297563	73.0%	478855	27.0%	1776418
January 2004	1244403	55.8%	983766	44.2%	1676466	75.2%	551703	24.8%	2228169
July 2004	1536148	55.5%	1231479	44.5%	2086172	75.4%	681455	24.6%	2767627
January 2005	1807016	52.3%	1645690	47.7%	2604067	75.4%	848639	24.6%	3452706
July 2005	2184805	51.6%	2056534	48.5%	3268602	77.1%	971737	22.9%	4240339
January 2006	2677211	53.3%	2349722	46.7%	3915435	77.9%	1111498	22.1%	5026933
July 2006	3202662	55.4%	2582200	44.6%	4561707	78.9%	1223155	21.1%	5784862
January 2007	3721957	55.9%	2930708	44.1%	5262617	79.1%	1390048	20.9%	6652665
July 2007	4176286	55.8%	3304056	44.2%	5871519	78.5%	1608823	21.5%	7480342

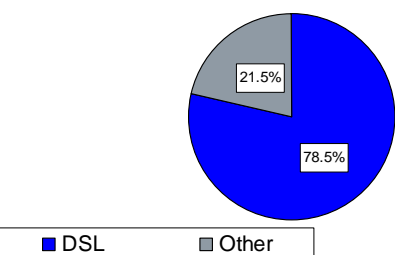
BB lines Mkt share (Spain / July 2007)



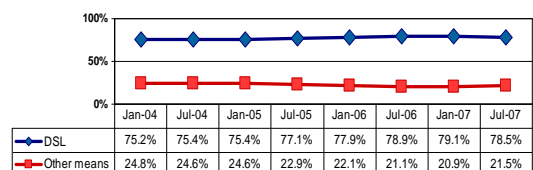
Broadband lines by operator (Spain)



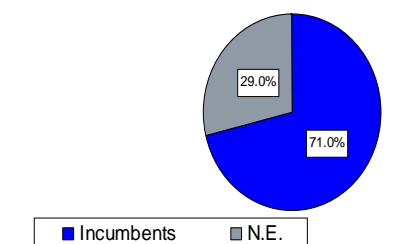
BB lines by technology (Spain / July 2007)



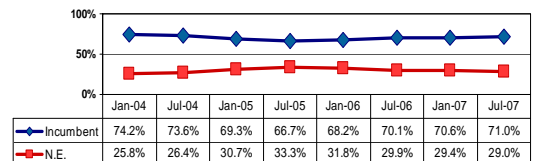
Broadband lines by technology (Spain)



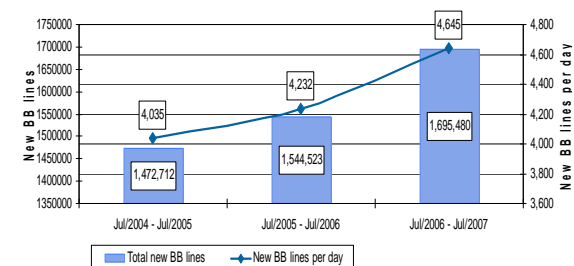
DSL lines Mkt share (Spain / July 2007)



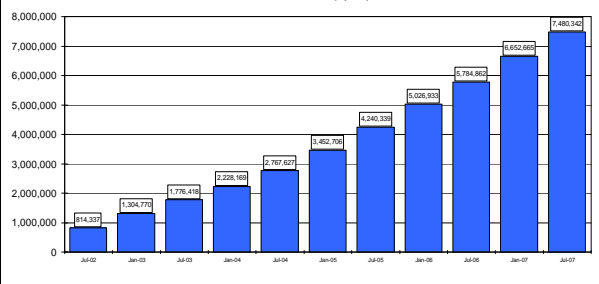
DSL lines by operator (Spain)



New broadband lines per year (Spain)



Broadband lines (Spain)

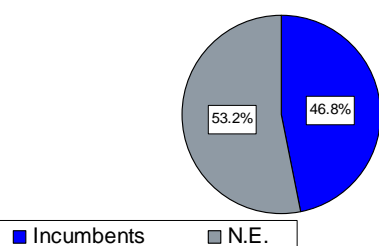


## Retail fixed broadband access in France, July 2007

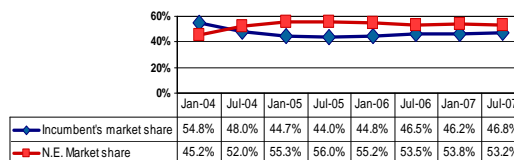
	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means																		
	Incumbents' DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants' DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	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)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	
July 2002	482000	0	578	0	0	0	483377	0	47560	0	0	0	0	0	0	47560	870	161101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161971	0	115
January 2003	587000	0	1358	541	0	0	413000	417969	0	50948	0	0	0	0	0	50948	1000	219573	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1185	
July 2003	1320000	0	2659	60274	0	0	717000	0	66704	0	0	0	0	0	0	66704	1000	246003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	247003	
January 2004	1921500	0	3800	272900	159600	0	905000	1341300	0	81359	0	0	0	0	0	81359	0	312495	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3124	
July 2004	2773407	0	13066	717654	854205	0	83155	2220080	0	87733	0	0	0	0	0	87733	0	337207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3372	
January 2005	2533308	0	95190	1495517	1634243	0	134091	3099000	0	100000	0	0	0	0	0	100000	0	200000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4000	
July 2005	3661192	0	255584	2073942	1676665	0	15066	4112200	0	0	0	0	0	0	0	0	0	520000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5200	
January 2006	4455535	0	597857	2229031	1939029	0	167115	5344000	0	0	0	0	0	0	0	0	0	560000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5600	
July 2006	5248636	0	1242564	2108135	1672095	0	267112	5448507	0	0	0	0	0	0	0	0	0	600000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6000	
January 2007	5915694	0	2105267	1810058	1998528	0	326217	6840570	0	0	0	0	0	0	0	0	0	660000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6600	
July 2007	6608116	0	2854553	1662335	2042387	0	218247	9097100	0	0	0	0	0	0	0	0	0	700000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7000	

	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	529560	72.0%	206384	28.0%	526413	71.5%	209531	28.5%	735944
January 2003	1037946	62.7%	618342	37.3%	1406769	84.9%	249519	15.1%	1656288
July 2003	1386704	57.5%	1026936	42.5%	2099933	87.0%	313707	13.0%	2413640
January 2004	2002859	54.8%	1653795	45.2%	3262800	89.2%	393854	10.8%	3656654
July 2004	2358200	48.0%	2557287	52.0%	4490487	91.4%	425000	8.6%	4915487
January 2005	3033308	44.7%	3759941	55.3%	6293249	92.6%	500000	7.4%	6793249
July 2005	3661192	44.0%	4661250	56.0%	7802442	93.8%	520000	6.2%	8322442
January 2006	4455535	44.8%	5494026	55.2%	9390561	94.4%	560000	5.6%	9950561
July 2006	5248636	46.5%	6048907	53.5%	10697543	94.7%	600000	5.3%	11297543
January 2007	5915694	46.2%	6900470	53.8%	12156164	94.9%	660000	5.1%	12816164
July 2007	6608116	46.8%	7509120	53.2%	13417236	95.0%	700000	5.0%	14117236

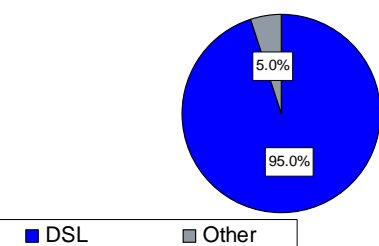
BB lines Mkt share (France / July 2007)



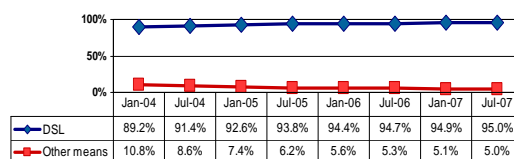
Broadband lines by operator (France)



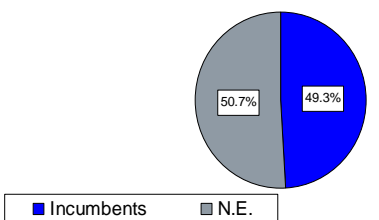
BB lines by technology (France / July 2007)



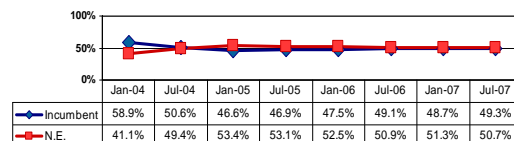
Broadband lines by technology (France)



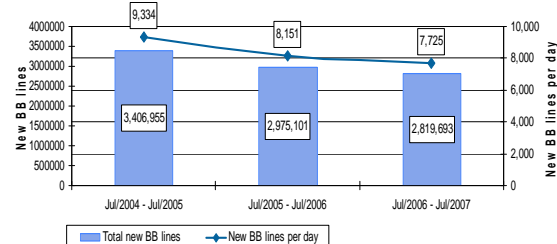
DSL lines Mkt share (France / July 2007)



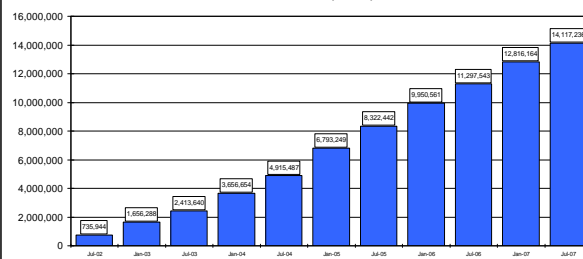
DSL lines by operator (France)



New broadband lines per year (France)



Broadband lines (France)

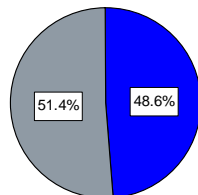


## Retail fixed broadband access in Ireland, July 2007

	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	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)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots
July 2002	977	0	7	6	0	0	13	1	0	0	0	0	0	0	0	0	1	68	284	0	0	0	0	0	0	0	0	0	0	0	0	0	353
January 2003	2645	0	180	453	9	0	642	0	0	0	0	0	0	0	0	0	0	100	4000	0	0	0	0	0	0	0	0	0	0	0	0	0	4100
July 2003	4249	0	209	715	196	0	1120	0	0	0	0	0	0	0	0	0	0	100	4000	0	0	0	0	0	0	0	0	0	0	0	0	0	4100
January 2004	18620	0	280	1100	4400	0	5780	0	0	2400	0	0	0	0	0	0	2400	1000	4900	900	0	200	0	250	0	0	0	0	0	0	0	0	7250
July 2004	44955	0	305	1136	10990	0	12490	0	0	2300	0	0	0	0	0	0	2300	1400	5200	865	0	220	0	0	0	0	0	0	0	0	0	0	1785
January 2005	89772	0	328	1340	25143	0	26811	0	0	2307	0	0	0	0	0	0	2307	11000	8045	981	0	220	0	0	0	0	0	0	0	0	0	0	20226
July 2005	169328	0	1903	1424	31721	0	35048	0	0	2249	0	0	0	0	0	0	2249	12500	13000	4106	0	890	0	0	0	0	0	0	0	0	0	0	30496
January 2006	151155	0	3494	1484	45757	0	53755	0	0	2340	0	0	0	0	0	0	2340	40000	23000	3638	0	2850	0	450	0	0	0	0	0	0	0	0	72339
July 2006	194888	0	13749	1211	65324	0	80284	0	0	0	0	0	0	0	0	0	0	52900	39900	0	4600	0	0	0	0	0	0	0	0	0	0	0	97000
January 2007	248403	0	18488	1046	111193	0	130721	0	0	0	0	0	0	0	0	0	0	76200	56000	0	7000	0	0	0	0	0	0	0	0	0	0	0	138200
July 2007	317556	0	17612	1092	136372	0	154976	0	0	0	0	0	0	0	0	0	0	102500	68900	0	8800	0	0	0	0	0	0	0	0	0	0	0	180300

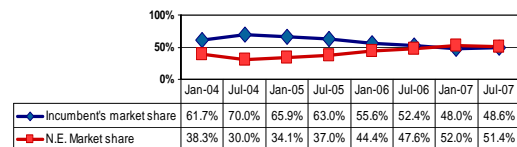
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share- DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002	978	72.8%	366	27.2%	990	73.7%	354	26.3%	1344
January 2003	2645	35.8%	4742	64.2%	3287	44.5%	4100	55.5%	7387
July 2003	4249	44.9%	5220	55.1%	5369	56.7%	4100	43.3%	9469
January 2004	21020	61.7%	13030	38.3%	24400	71.7%	9650	28.3%	34050
July 2004	47255	70.0%	20275	30.0%	57445	85.1%	10085	14.9%	67530
January 2005	91079	65.9%	47037	34.1%	115583	83.7%	22533	16.3%	138116
July 2005	111577	63.0%	65544	37.0%	144376	81.5%	32745	18.5%	177121
January 2006	153895	55.6%	122965	44.4%	202290	73.1%	74570	26.9%	276860
July 2006	194888	52.4%	177284	47.6%	275172	73.9%	97000	26.1%	372172
January 2007	248403	48.0%	268921	52.0%	379124	73.3%	138200	26.7%	517324
July 2007	317556	48.6%	335276	51.4%	472532	72.4%	180300	27.6%	652832

BB lines Mkt share (Ireland / July 2007)

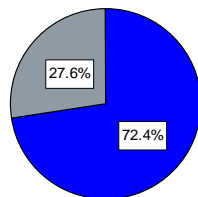


■ Incumbents ■ N.E.

Broadband lines by operator (Ireland)

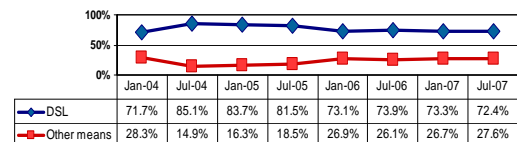


BB lines by technology (Ireland / July 2007)

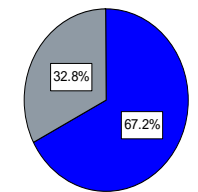


■ DSL ■ Other

Broadband lines by technology (Ireland)

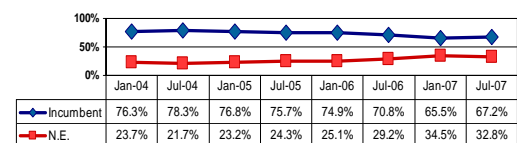


DSL lines Mkt share (Ireland / July 2007)

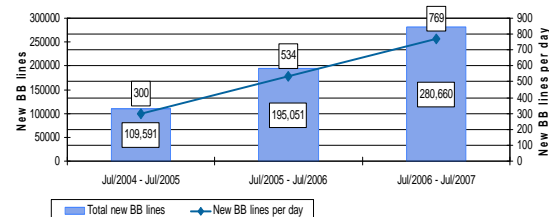


■ Incumbents ■ N.E.

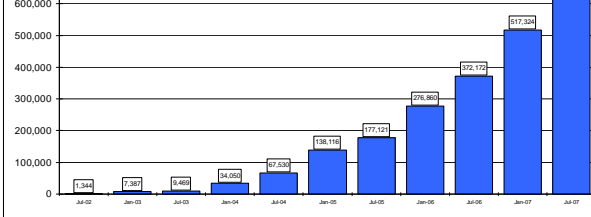
DSL lines by operator (Ireland)



New broadband lines per year (Ireland)



Broadband lines (Ireland)

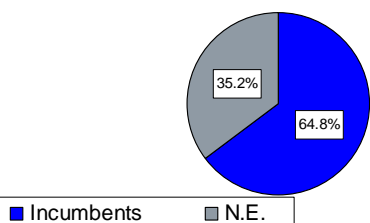


## Retail fixed broadband access in Italy, July 2007

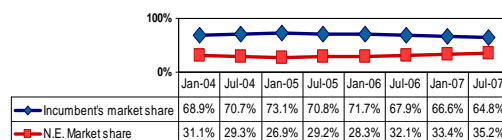
	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means																				
	Incumbent 's DSL lines	Own network	Full ULL	Shared access	Blstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the 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)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WIFI Hotspots	Tot. (exc. WIFI)			
July 2002	420000	0	2613	0	65263	0	67876	0	0	330	0	0	0	0	0	330	0	0	0	0	0	0	0	0	0	330	0	0	0	0	0	0	0	0	61510		
January 2003	630000	0	65333	0	60132	0	295255	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3243	0	0	0	0	0	0	0	0	143434		
July 2003	1057782	0	144620	0	184249	1007	329676	0	0	283	0	0	0	0	0	283	0	0	0	0	0	0	0	0	0	3300	112988	81957	0	0	0	0	0	0	198253		
January 2004	1651522	0	210126	0	296426	384	506936	0	0	1227	243	785	0	0	0	2255	178	20	3555	146835	90817	0	20	0	0	0	0	0	0	0	0	0	0	0	0	241226	
July 2004	2455802	0	291762	0	474911	713	767385	0	0	1046	44	18700	0	0	0	284	0	30079	305	20	3881	171024	85000	0	0	0	0	0	0	0	0	0	0	0	0	260235	
January 2005	3411637	0	378831	29600	581555	953	950545	0	0	851	75	24905	0	254	0	26058	433	20	3545	183830	84403	0	11	0	0	0	0	0	0	0	0	0	0	0	0	272551	
July 2005	3854408	0	496654	80388	742550	1250	1320862	0	0	767	119	55594	0	258	0	56738	640	20	4036	198668	86000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	289356	
January 2006	4201000	0	600708	145812	838391	1539	1655648	0	0	525	152	41408	0	218	0	42301	831	20	4087	205327	87000	0	2	0	0	0	0	0	0	0	0	0	0	0	0	297747	
July 2006	5195000	301	866682	276230	1004571	573	2168355	0	0	437	194	28211	0	190	780	29032	1104	0	0	209735	83000	0	4276	143	0	0	0	0	0	0	0	0	0	0	0	0	298115
January 2007	5639000	348	1860170	381893	1073327	772	2518511	0	0	392	244	23191	0	182	1488	24009	1395	20	4882	228588	83000	0	7	500	0	0	0	0	0	0	0	0	0	0	0	317902	
July 2007	6073000	415	1900497	461435	1125735	951	2973033	0	0	334	285	18198	0	205	137	18561	1584	20	5239	247343	77000	0	0	623	0	0	0	0	0	0	0	0	0	0	0	331185	

	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	420330	76.5%	129386	23.5%	487876	88.8%	61840	11.2%	549716
January 2003	630000	64.5%	346019	35.5%	835525	85.6%	140494	14.4%	976019
July 2003	1058065	66.7%	528129	33.3%	1387658	87.5%	198536	12.5%	1586194
January 2004	1653777	68.9%	748162	31.1%	2158458	89.9%	243481	10.1%	2401939
July 2004	2475881	70.7%	1027616	29.3%	3223188	92.0%	280309	8.0%	3503497
January 2005	3437733	73.1%	1263499	26.9%	4402585	93.6%	298647	6.4%	4701232
July 2005	3911146	70.8%	1610228	29.2%	5175270	93.7%	346104	6.3%	5521374
January 2006	4943301	71.7%	1953395	28.3%	6556648	95.1%	340048	4.9%	6896696
July 2006	5224032	67.9%	2466471	32.1%	7363356	95.7%	327147	4.3%	7690503
January 2007	5663009	66.6%	2834413	33.4%	8155511	96.0%	341911	4.0%	8497422
July 2007	6091961	64.8%	3310219	35.2%	9052033	96.3%	350147	3.7%	9402180

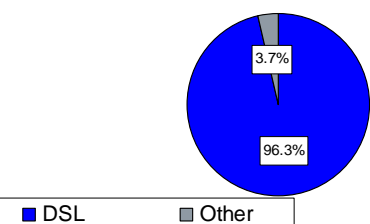
BB lines Mkt share (Italy / July 2007)



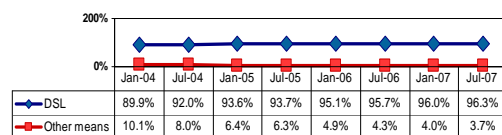
Broadband lines by operator (Italy)



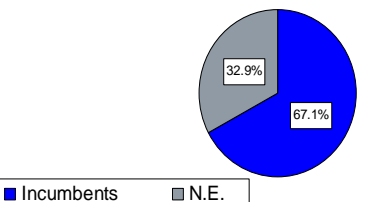
BB lines by technology (Italy / July 2007)



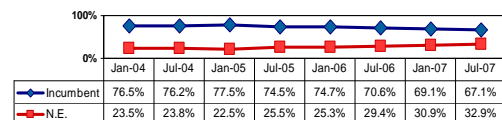
Broadband lines by technology (Italy)



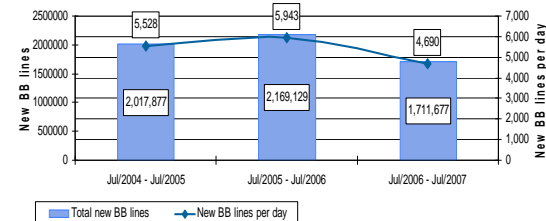
DSL lines Mkt share (Italy / July 2007)



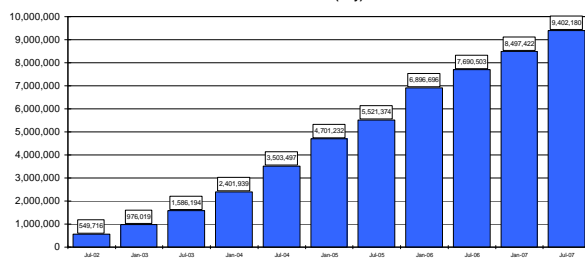
DSL lines by operator (Italy)



New broadband lines per year (Italy)



Broadband lines (Italy)

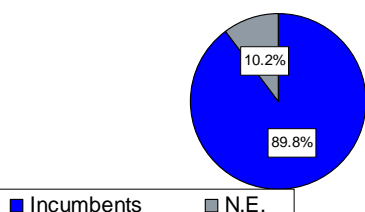


## Retail fixed broadband access in Cyprus, July 2007

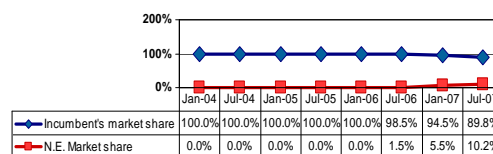
	New entrants' DSL lines on PSTN					Incumbents' access lines by other means										New entrants' access lines by other means									
	Incumbent % DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	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																									
January 2003																									
July 2003																									
January 2004	10033	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	14490	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	17994	0	0	0	0	0	0	0	0	22	0	0	0	0	951	973	0	0	0	0	0	0	0	0	0
July 2005	17994	0	0	0	0	0	0	0	0	22	0	0	0	0	951	973	0	0	0	0	0	0	0	0	0
January 2006	44322	0	0	0	0	0	0	0	0	2511	0	0	0	0	227	2768	0	0	0	0	0	0	0	0	0
July 2006	49538	0	335	0	0	0	335	0	0	272	0	0	0	0	18	258	0	323	80	0	20	0	2	5	405
January 2007	63868	0	3374	16	0	0	3390	0	0	273	0	0	0	0	22	295	0	305	33	0	0	0	3	8	341
July 2007	77174	0	8077	114	0	0	8191	0	0	273	0	0	0	0	39	72	312	0	545	35	0	0	3	29	535

	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									
January 2003									
July 2003									
January 2004	10063	100.0%	0	0.0%	10033	99.7%	30	0.3%	10063
July 2004	14520	100.0%	0	0.0%	14490	99.8%	30	0.2%	14520
January 2005	18967	100.0%	0	0.0%	17994	94.9%	973	5.1%	18967
July 2005	18967	100.0%	0	0.0%	17994	94.9%	973	5.1%	18967
January 2006	47090	100.0%	0	0.0%	44322	94.1%	2768	5.9%	47090
July 2006	49826	98.5%	740	1.5%	49873	98.6%	693	1.4%	50566
January 2007	64283	94.5%	3731	5.5%	67378	99.1%	636	0.9%	68014
July 2007	77486	89.8%	8774	10.2%	85365	99.0%	895	1.0%	86260

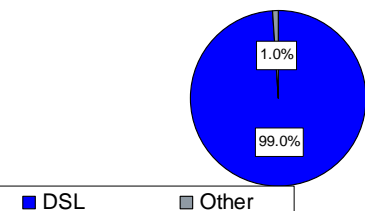
BB lines Mkt share (Cyprus / July 2007)



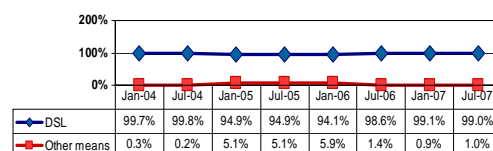
Broadband lines by operator (Cyprus)



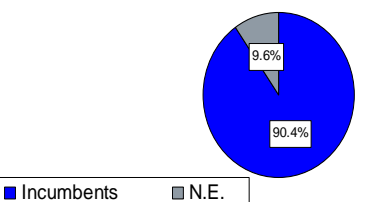
BB lines by technology (Cyprus / July 2007)



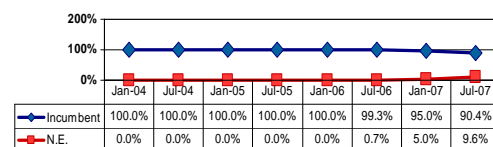
Broadband lines by technology (Cyprus)



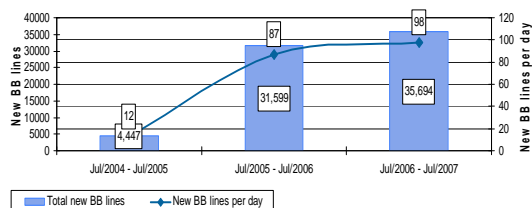
DSL lines Mkt share (Cyprus / July 2007)



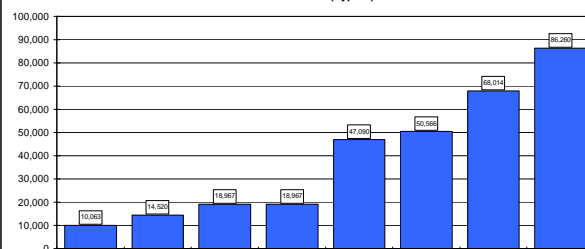
DSL lines by operator (Cyprus)



New broadband lines per year (Cyprus)



Broadband lines (Cyprus)



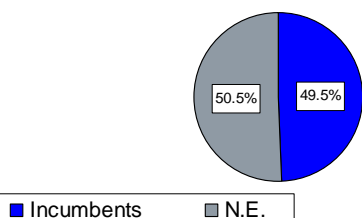


## Retail fixed broadband access in Latvia, July 2007

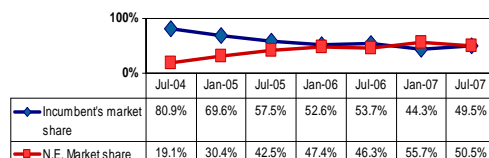
	New entrants' DSL lines on PSTN						Incumbents' access lines by other means						New entrants' access lines by other means														
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Blstream access	Resale	Total new entrants' DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	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																											
January 2003																											
July 2003																											
January 2004	36815	0	0	0	0	0	0	265	357	0	0	0	0	0	0	0	612	351	1746	59	32	0	0	4288	0	6477	
July 2004	38995	0	31	7	150	88	285	304	0	0	0	0	0	0	0	0	304	1881	7828	804	497	4	172	5677	0	16663	
January 2005	48749	0	507	1	165	43	716	306	0	0	0	0	0	0	0	0	306	3505	12462	858	524	3	119	18138	0	35610	
July 2005	68771	0	59	1	230	303	893	332	0	0	0	0	0	0	0	0	232	4331	16015	698	980	0	44	33213	0	61573	
January 2006	83307	0	106	10	125	259	500	269	0	0	0	0	0	0	0	0	259	5535	21003	4975	2604	225	1208	35083	0	71632	
July 2006	106585	0	212	10	142	524	888	234	0	0	0	0	0	165	0	399	11388	38504	18405	8813	496	1236	56826	0	133678		
January 2007	130038	0	300	10	137	535	886	259	0	0	26	0	0	173	0	461	10034	34344	19161	4180	0	0	64390	0	152117		

	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									
January 2003									
July 2003									
January 2004									
July 2004	27427	80.9%	6477	19.1%	26815	79.1%	7089	20.9%	33904
January 2005	39299	69.6%	17149	30.4%	39281	69.6%	17167	30.4%	56448
July 2005	49055	57.5%	36326	42.5%	49465	57.9%	35916	42.1%	85381
January 2006	69063	52.6%	62266	47.4%	69464	52.9%	61865	47.1%	131329
July 2006	83606	53.7%	72132	46.3%	83807	53.8%	71931	46.2%	155738
January 2007	106984	44.3%	134566	55.7%	107473	44.5%	134077	55.5%	241550
July 2007	130499	49.5%	133103	50.5%	131024	49.7%	132578	50.3%	263602

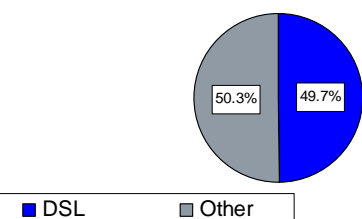
BB lines Mkt share (Latvia / July 2007)



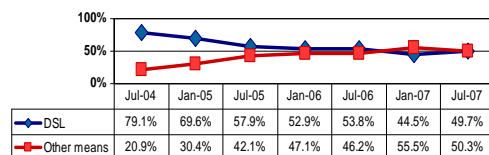
Broadband lines by operator (Latvia)



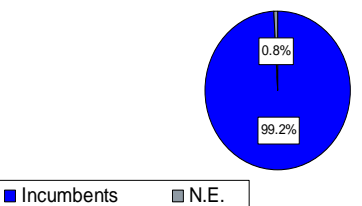
BB lines by technology (Latvia / July 2007)



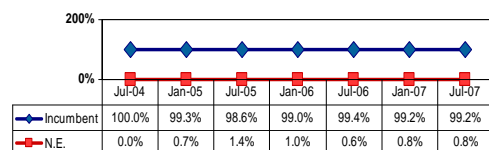
Broadband lines by technology (Latvia)



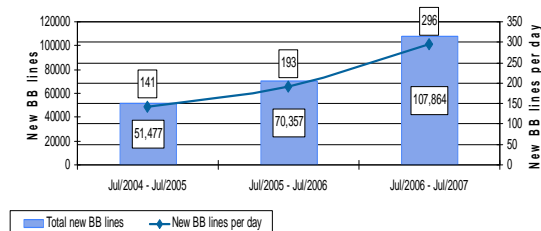
DSL lines Mkt share (Latvia / July 2007)



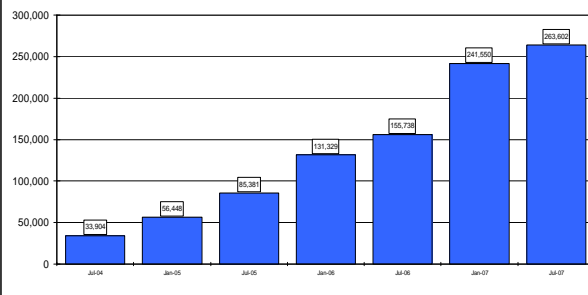
DSL lines by operator (Latvia)



New broadband lines per year (Latvia)



Broadband lines (Latvia)

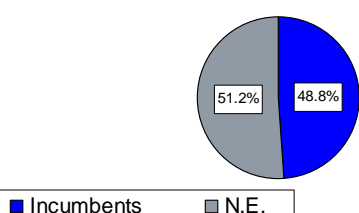


## Retail fixed broadband access in Lithuania, July 2007

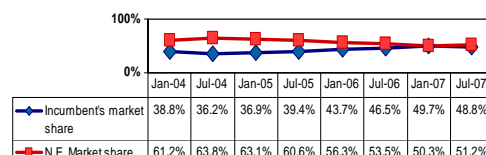
	New entrants' DSL lines on PSTN						Incumbents' access lines by other means						New entrants' access lines by other means																						
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants' DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	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)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)	
July 2002																																			
January 2003																																			
July 2003	14289	0	0	0	1155	0	1155	0	0	102	0	0	0	0	0	102	4498	11141	15	2620	0	0	0	6700	0	26972									
January 2004	25085	0	0	0	1353	0	1353	0	0	112	0	0	0	0	0	112	4753	19883	793	2927	3	19	9954	0	38432										
July 2004	31825	0	0	0	2249	0	2249	0	0	125	35	0	0	0	0	161	5997	23404	1384	3750	1	59	19446	0	52044										
January 2005	37455	0	0	0	3223	0	3223	0	0	134	89	0	0	0	0	173	8015	32227	1193	5589	1	43	30121	0	78192										
July 2005	66963	0	0	0	2841	0	2841	0	0	148	62	0	0	0	0	210	13846	38124	1131	10174	0	30	37300	0	100605										
January 2006	102117	0	0	0	2881	0	2881	0	0	162	78	0	0	0	0	287	2411	17937	49531	1258	12859	1	0	47323	0	122907									
July 2006	131408	0	0	0	2472	0	2472	0	0	117	50	0	0	0	1394	477	1561	21738	58119	1273	15323	0	0	54167	33	150618									
January 2007	178147	0	0	0	2155	0	2155	0	0	102	65	0	0	0	2472	894	2639	24424	65758	1451	43836	0	0	43154	189	178823									
July 2007	203528	0	0	0	2314	0	2314	255	0	91	99	0	0	0	3824	255	6585	28539	61425	1621	81519	170	0	45238	192	218611									

	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									
January 2003									
July 2003	14391	33.8%	28127	66.2%	15444	36.3%	27074	63.7%	42518
January 2004	25197	38.8%	39785	61.2%	26438	40.7%	38544	59.3%	64982
July 2004	31986	36.2%	56293	63.8%	34074	38.6%	54205	61.4%	88279
January 2005	47638	36.9%	81415	63.1%	50688	39.3%	78365	60.7%	129053
July 2005	67173	39.4%	103446	60.6%	69804	40.9%	100815	59.1%	170619
January 2006	102358	43.7%	131688	56.3%	104798	44.8%	129248	55.2%	234046
July 2006	132969	45.5%	153090	53.5%	133880	46.8%	152179	53.2%	286059
January 2007	178786	49.7%	180778	50.3%	178302	49.6%	181262	50.4%	359564
July 2007	210524	48.8%	220925	51.2%	206273	47.8%	225176	52.2%	431449

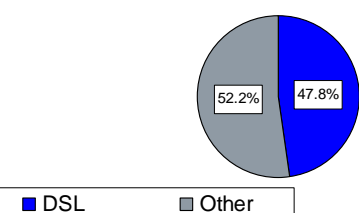
BB lines Mkt share (Lithuania / July 2007)



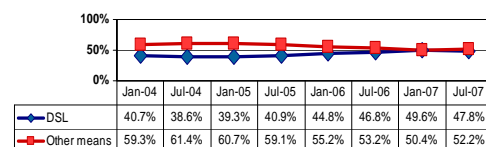
Broadband lines by operator (Lithuania)



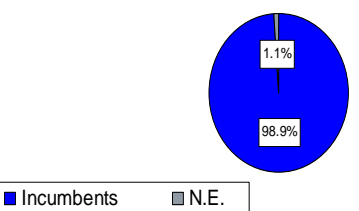
BB lines by technology (Lithuania / July 2007)



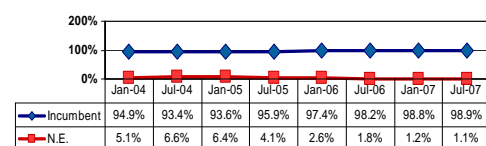
Broadband lines by technology (Lithuania)



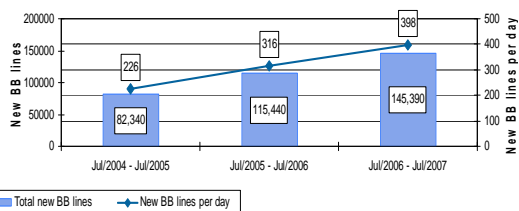
DSL lines Mkt share (Lithuania / July 2007)



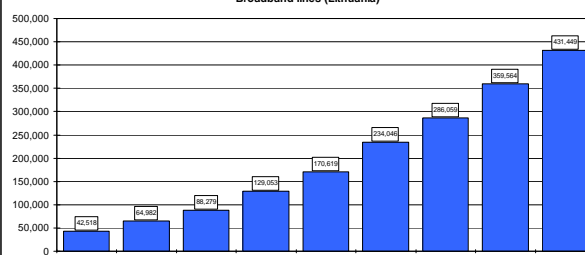
DSL lines by operator (Lithuania)



New broadband lines per year (Lithuania)



Broadband lines (Lithuania)

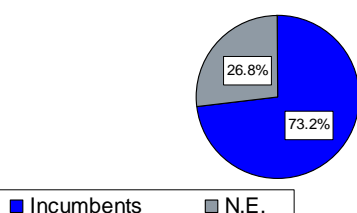


## Retail fixed broadband access in Luxembourg, July 2007

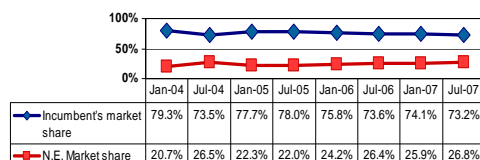
		New entrants' DSL lines on PSTN					Incumbents' access lines by other means												New entrants' access lines by other means												Public access WiFi hotspots	Tot. (exc. WiFi)
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable 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																																
January 2003	6562	0	298	0	0	0	298	0	96	92	0	0	0	0	0	188	20	276	108	0	0	0	0	5	0	409						
July 2003	8308	0	652	0	0	0	652	0	186	115	0	0	0	0	0	303	25	883	106	0	0	0	0	5	0	1019						
January 2004	12281	0	1579	0	0	0	1579	0	261	104	0	0	0	0	0	365	25	1597	95	0	0	0	0	0	0	1717						
July 2004	18101	0	2378	0	0	0	1651	4027	373	156	0	0	0	0	0	629	25	2623	10	0	0	0	0	19	0	2677						
January 2005	27366	0	1039	0	0	0	3836	4701	0	584	237	0	0	0	0	841	43	3497	10	0	0	0	0	21	0	3571						
July 2005	40657	0	1553	59	0	0	4772	6391	0	568	170	0	0	0	0	738	49	5183	10	0	0	0	0	21	0	5263						
January 2006	52402	0	3088	114	0	0	7528	10730	0	658	177	150	0	0	0	895	69	6219	10	0	0	0	0	21	0	6319						
July 2006	57075	0	4801	114	0	0	9080	13950	31	737	170	175	0	0	0	1119	77	6957	10	53	0	0	0	21	0	7116						
January 2007	72170	0	6534	102	0	0	10804	17549	0	754	237	0	0	0	0	991	58	7556	10	0	0	0	0	0	50	8064						
July 2007	81326	21	8017	102	0	0	13166	21306	0	757	279	208	0	0	0	1284	140	8861	10	0	0	0	0	0	80	9011						

	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									
January 2003	6750	90.5%	705	9.5%	6858	92.0%	597	8.0%	7455
July 2003	8611	83.7%	1671	16.3%	8960	87.1%	1322	12.9%	10282
January 2004	12646	79.3%	3296	20.7%	13860	86.9%	2082	13.1%	15942
July 2004	18630	73.5%	6704	26.5%	22128	87.3%	3208	12.7%	25334
January 2005	28747	77.7%	8272	22.3%	32607	88.1%	4412	11.9%	37019
July 2005	41395	78.0%	11654	22.0%	47048	88.7%	6001	11.3%	53049
January 2006	53387	75.8%	17049	24.2%	63132	89.6%	7304	10.4%	70436
July 2006	58994	73.6%	21111	26.4%	71870	89.7%	8235	10.3%	80105
January 2007	73161	74.1%	25604	25.9%	89710	90.8%	9055	9.2%	98765
July 2007	82610	73.2%	30317	26.8%	102632	90.9%	10295	9.1%	112927

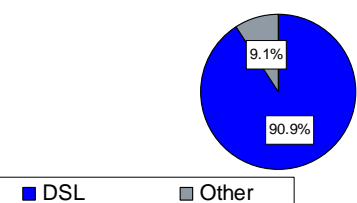
BB lines Mkt share (Luxembourg / July 2007)



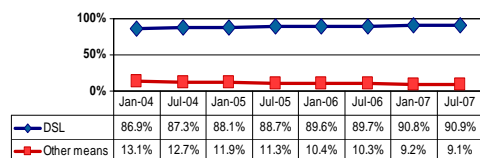
Broadband lines by operator (Luxembourg)



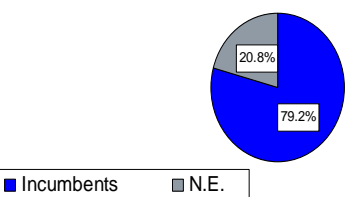
BB lines by technology (Luxembourg / July 2007)



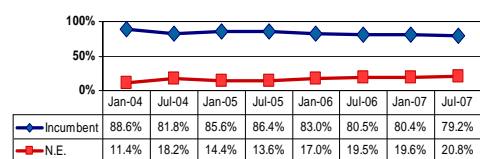
Broadband lines by technology (Luxembourg)



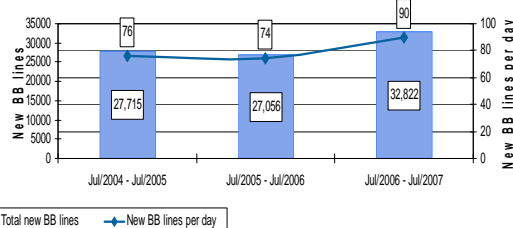
DSL lines Mkt share (Luxembourg / July 2007)



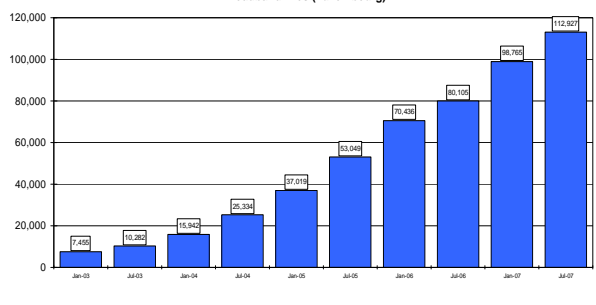
DSL lines by operator (Luxembourg)



New broadband lines per year (Luxembourg)



Broadband lines (Luxembourg)

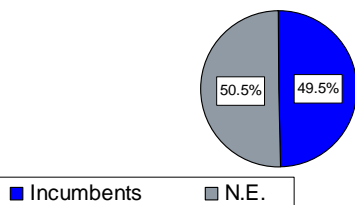


## Retail fixed broadband access in Hungary, July 2007

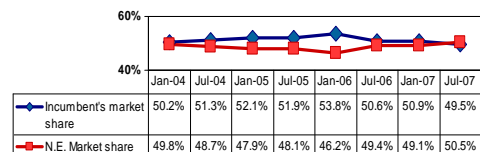
	New entrants' DSL lines on PSTN						Incumbents' access lines by other means						Public access WiFi Hotspots						New entrants' access lines by other means						Public access WiFi Hotspots	
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Blstream access	Resale	Total new entrants' DSL lines	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																										
January 2003																										
July 2003																										
January 2004	85433	0	0	0	31936	0	31936	725	7886	0	0	0	0	0	0	8611	4577	56671	0	0	0	0	0	0	61248	
July 2004	121181	0	0	0	44803	0	44803	1000	9594	0	0	0	0	0	0	10584	5700	73762	0	1000	0	0	0	0	82452	
January 2005	175328	0	0	0	54484	0	54484	1200	12431	1500	0	0	0	0	0	15131	7300	99000	3500	1000	0	0	0	0	110800	
July 2005	219148	0	0	1	78088	0	78089	1200	15820	1500	0	0	0	0	0	18520	7300	130000	3500	1000	0	0	0	0	141800	
January 2006	307325	0	0	26	105335	0	105336	1400	23126	1500	0	0	0	0	0	26026	8800	167500	3500	1000	0	0	0	0	180300	
July 2006	350065	0	61	1506	134249	0	135816	1500	31683	1500	0	0	0	0	0	34713	9700	225477	3500	1000	0	0	0	0	236777	
January 2007	448417	0	1354	3070	182053	0	186477	5500	51233	1500	0	0	0	0	0	58233	33900	284257	3500	1000	0	0	0	0	322657	
July 2007	506481	0	5400	3708	183588	0	192674	7100	65597	1500	0	0	0	0	0	74181	42500	351715	3500	1000	0	0	0	0	358715	

	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									
January 2003									
July 2003									
January 2004	94044	50.2%	93184	49.8%	117369	62.7%	69859	37.3%	187228
July 2004	131764	51.3%	125252	48.7%	165980	64.6%	91036	35.4%	257016
January 2005	190457	52.1%	175284	47.9%	239810	65.6%	125931	34.4%	365741
July 2005	237668	51.9%	219889	48.1%	297237	65.0%	160320	35.0%	457557
January 2006	333351	53.8%	286361	46.2%	412886	66.6%	206826	33.4%	619712
July 2006	384778	50.6%	375493	49.4%	485881	63.9%	274390	36.1%	760271
January 2007	506650	50.9%	489134	49.1%	614884	61.7%	380890	38.3%	995784
July 2007	580678	49.5%	591389	50.5%	699155	59.7%	472912	40.3%	1172067

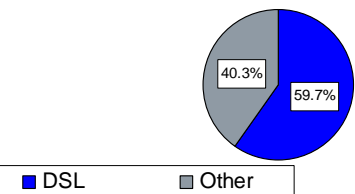
BB lines Mkt share (Hungary / July 2007)



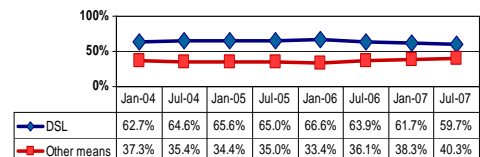
Broadband lines by operator (Hungary)



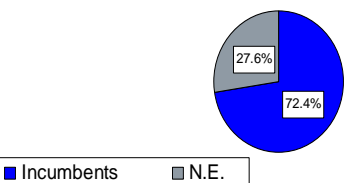
BB lines by technology (Hungary / July 2007)



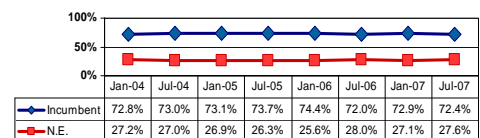
Broadband lines by technology (Hungary)



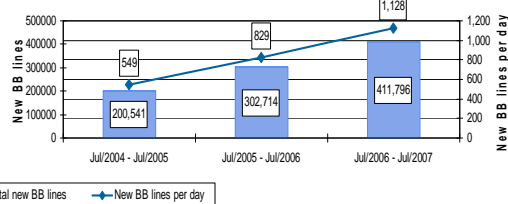
DSL lines Mkt share (Hungary / July 2007)



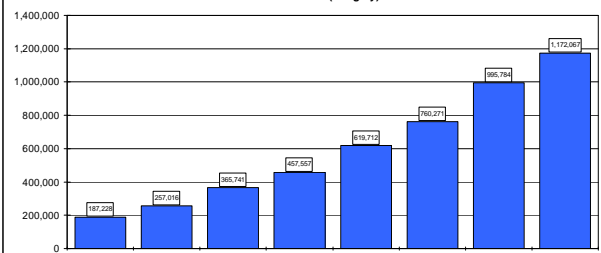
DSL lines by operator (Hungary)



New broadband lines per year (Hungary)



Broadband lines (Hungary)

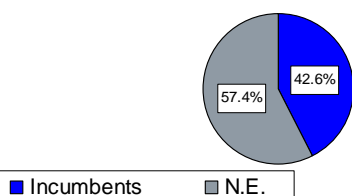


## Retail fixed broadband access in Malta, July 2007

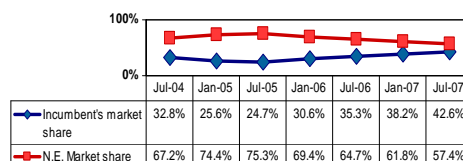
	New entrants' DSL lines on PSTN						Incumbents' access lines by other means						New entrants' access lines by other means														
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	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																											
January 2003																											
July 2003																											
January 2004																											
July 2004	4511	0	0	0	0	0	6915	6915	0	0	0	0	0	0	0	0	0	0	0	2312	0	0	0	0	0	0	2312
January 2005	9752	0	0	0	0	0	12393	12393	0	0	0	0	0	0	0	0	0	0	0	15909	0	0	0	0	0	0	15909
July 2005	10283	0	0	0	0	0	13516	13516	0	0	0	0	0	0	0	0	0	0	0	17752	0	0	0	0	0	0	17752
January 2006	15669	0	0	0	0	0	14470	14470	0	0	0	0	0	0	0	0	0	0	0	21150	0	0	0	0	0	0	21150
July 2006	18336	0	0	0	0	0	12187	12187	0	0	0	0	0	0	0	0	0	0	0	21420	0	0	0	0	0	0	21420
January 2007	19287	0	0	0	0	0	10577	10577	0	0	0	0	0	0	0	0	0	0	0	20629	0	0	0	0	0	0	20629
July 2007	24000	0	0	0	0	0	10600	10600	0	0	0	0	0	0	0	0	0	0	0	21800	0	0	0	0	0	0	21800

	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									
January 2003									
July 2003									
January 2004									
July 2004	4511	32.8%	9227	67.2%	11426	83.2%	2312	16.8%	13738
January 2005	9752	25.6%	28302	74.4%	22145	58.2%	15909	41.8%	38054
July 2005	10283	24.7%	31268	75.3%	23799	57.3%	17752	42.7%	41551
January 2006	15669	30.6%	35620	69.4%	30139	58.8%	21150	41.2%	51289
July 2006	18336	35.3%	33607	64.7%	30523	58.8%	21420	41.2%	51943
January 2007	19287	38.2%	31206	61.8%	29564	59.1%	20629	40.9%	50493
July 2007	24000	42.6%	32400	57.4%	34600	61.3%	21800	38.7%	56400

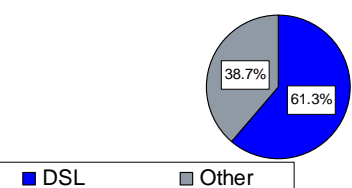
BB lines Mkt share (Malta / July 2007)



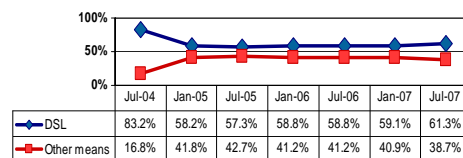
Broadband lines by operator (Malta)



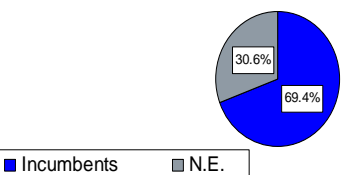
BB lines by technology (Malta / July 2007)



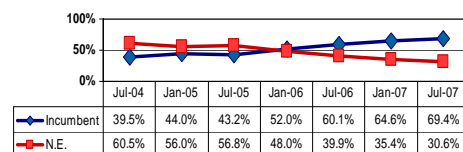
Broadband lines by technology (Malta)



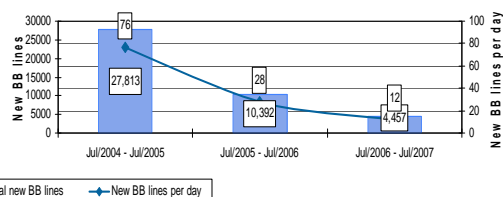
DSL lines Mkt share (Malta / July 2007)



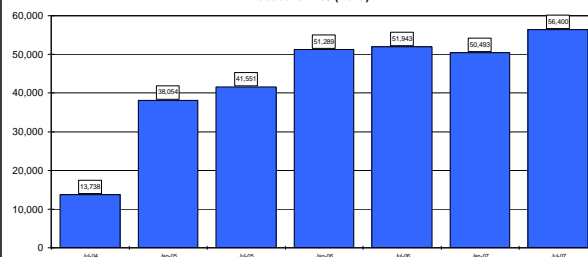
DSL lines by operator (Malta)



New broadband lines per year (Malta)



Broadband lines (Malta)

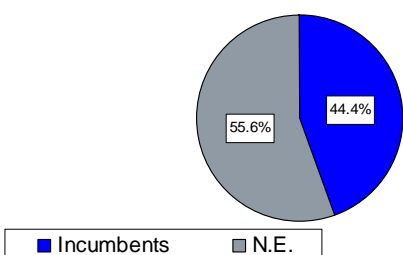


## Retail fixed broadband access in the Netherlands, April 2007

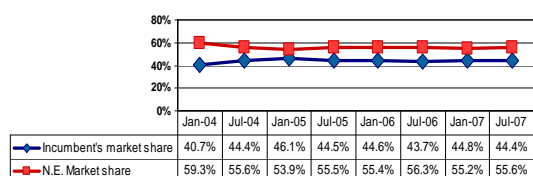
	New entrants' DSL lines on PSTN					Incumbents' access lines by other means										New entrants' access lines by other means									
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	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	156789	0	13686	7229	0	0	20815	0	0	0	0	0	0	0	0	0	0	800000	0	0	0	0	0	0	800000
January 2003	363021	0	25114	25339	0	0	53040	n.a.	0	0	0	0	0	0	0	0	0	800000	0	0	0	0	0	0	800000
July 2003	568474	0	28730	81304	0	0	110034	n.a.	0	0	0	0	0	0	0	0	0	800000	0	0	0	0	0	0	900000
January 2004	776968	0	33795	167281	0	0	201076	0	0	0	0	0	0	0	0	0	0	830000	0	0	0	0	0	0	930000
July 2004	1053000	0	38625	231534	0	0	321129	0	0	0	0	0	0	0	0	0	0	898400	0	0	0	0	0	0	988400
January 2005	1422347	0	48463	413751	0	0	462214	0	0	0	0	0	0	0	0	0	0	1200000	0	0	0	0	0	0	1200000
July 2005	1620005	0	60811	523251	0	0	584062	0	0	0	0	0	0	0	0	0	0	1438248	0	0	0	0	0	0	1438248
January 2006	1832806	0	121636	566201	0	0	715246	0	0	0	0	0	0	0	0	0	0	1562521	0	0	0	0	0	0	1562521
July 2006	2072000	0	214328	562501	0	0	776829	0	0	0	0	0	0	0	0	0	0	1810000	0	83000	0	0	0	0	1893000
January 2007	2325200	0	281000	561000	Confidential	0	820000	0	0	0	0	0	0	0	0	0	0	1950000	0	65000	0	0	0	0	2015000
July 2007	2405308	0	356000	561000	Confidential	0	817000	0	0	0	0	0	0	0	0	0	0	2331665	0	65000	0	0	0	0	2396665

	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	195789	19.3%	820915	80.7%	216704	21.3%	800000	78.7%	1016704
January 2003	363021	29.9%	850840	70.1%	413861	34.1%	800000	65.9%	1213861
July 2003	569474	36.1%	1010034	63.9%	679508	43.0%	900000	57.0%	1579508
January 2004	776968	40.7%	1131076	59.3%	978044	51.3%	930000	48.7%	1908044
July 2004	1053000	44.4%	1319529	55.6%	1374129	57.9%	998400	42.1%	2372529
January 2005	1422347	46.1%	1662214	53.9%	1834561	61.1%	1200000	38.9%	3034561
July 2005	1620005	44.5%	2022310	55.5%	2204067	60.5%	1438248	39.5%	3642315
January 2006	1832806	44.6%	2280767	55.4%	2551052	62.0%	1562521	38.0%	4113573
July 2006	2072000	43.7%	2669529	56.3%	2846529	60.1%	1893000	39.9%	4741529
January 2007	2325200	44.8%	2867000	55.2%	3177200	61.2%	2015000	38.8%	5192200
July 2007	2405308	44.4%	3013665	55.6%	3322308	61.3%	2096665	38.7%	5418971

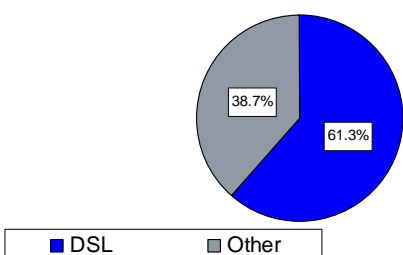
BB lines Mkt share (The Netherlands / July 2007)



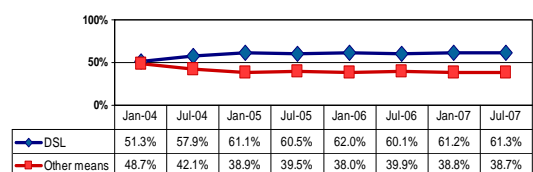
Broadband lines by operator (The Netherlands)



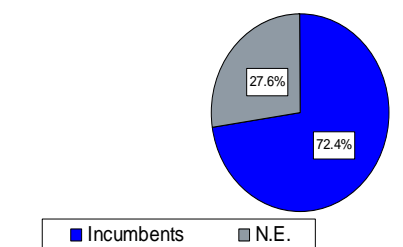
BB lines by technology (The Netherlands / July 2007)



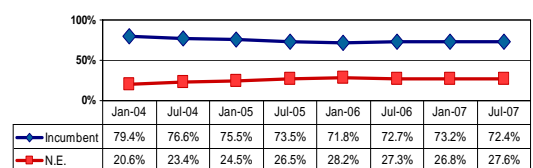
Broadband lines by technology (The Netherlands)



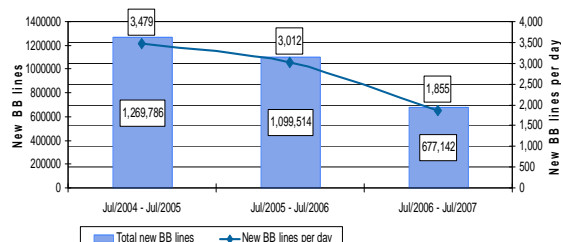
DSL lines Mkt share (The Netherlands / July 2007)



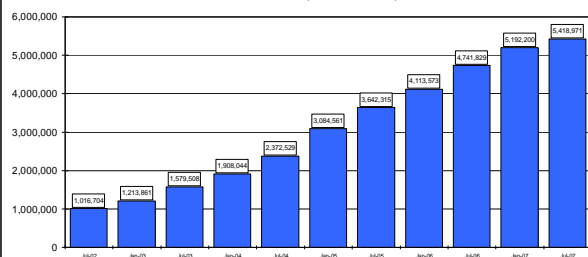
DSL lines by operator (The Netherlands)



New broadband lines per year (The Netherlands)



Broadband lines (The Netherlands)

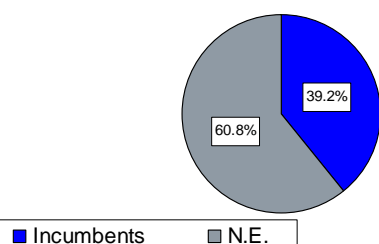


## Retail fixed broadband access in Austria, April 2007

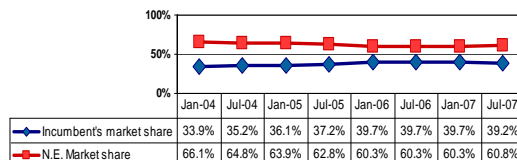
	New entrants' DSL lines on PSTN					Incumbents' access lines by other means										New entrants' access lines by other means										Public access		Tot. (exc. WiFi)
	Incumbents' DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants' DSL lines	WLL	Cable modem	Leased 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)	Public access WiFi Hotspots	Tot. (exc. WiFi)	
July 2002	113900	0	2640	0	22100	0	24740	0	0	0	0	0	0	0	0	0	0	236000	0	0	0	0	0	0	0	0	236000	
January 2003	143100	0	550	0	31000	0	35050	0	0	0	0	0	0	0	0	0	0	272000	0	0	0	0	0	0	0	0	272000	
July 2003	174300	0	9750	0	40600	0	53350	0	0	0	0	0	0	0	0	0	0	302000	0	0	0	0	0	0	0	0	302000	
January 2004	207800	0	18500	0	53300	0	71800	0	0	0	0	0	0	0	0	0	0	331000	0	1000	0	1000	0	0	0	0	333000	
July 2004	249400	0	35007	78	71300	0	103305	0	0	0	0	0	0	0	0	0	0	350000	0	1000	0	1000	0	0	0	0	352000	
January 2005	298400	0	58440	35	85200	0	143675	0	0	0	0	0	0	0	0	0	0	380000	0	1000	0	1000	0	0	0	0	382000	
July 2005	349000	0	81255	75	94900	0	176230	0	0	0	0	0	0	0	0	0	0	405000	0	1000	0	1000	0	0	0	0	412600	
January 2006	467000	0	110300	83	109500	0	216883	0	0	0	0	0	0	0	0	0	0	472000	0	1000	0	1000	0	0	0	0	483100	
July 2006	520041	0	143301	101	117955	0	261387	0	0	0	0	0	0	0	0	0	0	502546	1200	1000	1000	5200	0	0	0	0	528588	
January 2007	572014	0	178556	113	122265	0	300934	0	0	0	0	0	0	0	0	0	0	537684	0	1000	1000	5400	2026	0	0	0	567232	
July 2007	597650	0	214865	124	124862	0	339451	0	0	0	0	0	0	0	0	0	0	587753	2029	1000	1000	5400	0	0	0	0	597753	

	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	113900	30.4%	260740	69.6%	138640	37.0%	236000	63.0%	374640
January 2003	143100	31.7%	308700	68.3%	179600	39.8%	272200	60.2%	451800
July 2003	174300	33.1%	352750	66.9%	224650	42.6%	302400	57.4%	527050
January 2004	207800	33.9%	404800	66.1%	279600	45.6%	333000	54.4%	612600
July 2004	249400	35.2%	458325	64.8%	355725	50.3%	352000	49.7%	707725
January 2005	298400	36.1%	529275	63.9%	442075	53.4%	385600	46.6%	827675
July 2005	349000	37.2%	588830	62.8%	525230	56.0%	412600	44.0%	937830
January 2006	467000	39.7%	709183	60.3%	683083	58.1%	493100	41.9%	1176183
July 2006	520041	39.7%	790055	60.3%	781408	59.6%	528688	40.4%	1310096
January 2007	572014	39.7%	868166	60.3%	872948	60.6%	567232	39.4%	1440180
July 2007	597650	39.2%	927204	60.8%	937101	61.5%	587753	38.5%	1524854

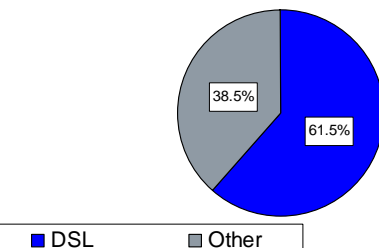
BB lines Mkt share (Austria / July 2007)



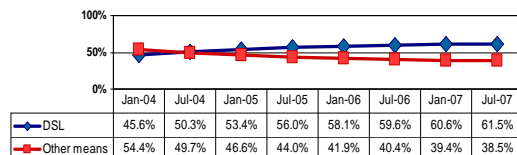
Broadband lines by operator (Austria)



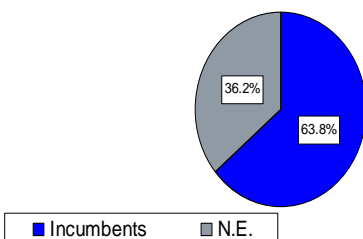
BB lines by technology (Austria / July 2007)



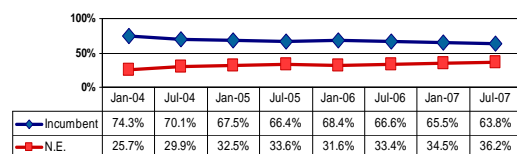
Broadband lines by technology (Austria)



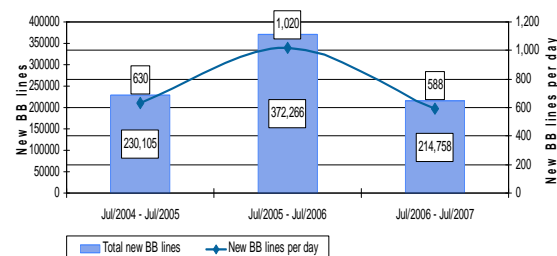
DSL lines Mkt share (Austria / July 2007)



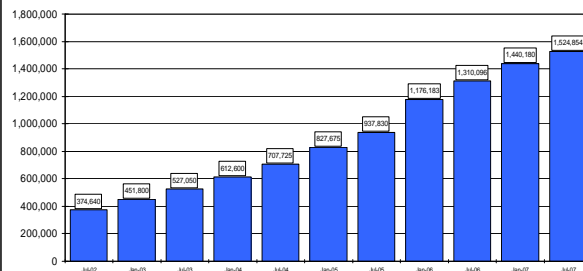
DSL lines by operator (Austria)



New broadband lines per year (Austria)



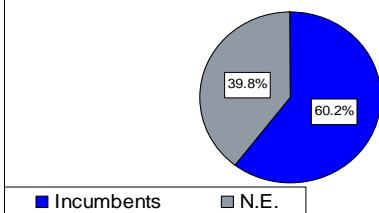
Broadband lines (Austria)



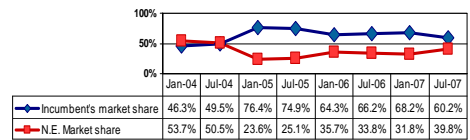
## Retail fixed broadband access in Poland, July 2007

	New entrants' DSL lines on PSTN					Incumbents' access lines by other means										New entrants' access lines by other means										Public access WIFI Hotspots	Tot. (exc. WIFI)
	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																											
January 2003																											
July 2003																											
January 2004	80239.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93000	0	0	0	0	0	0	93000		
July 2004	108900.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111000	0	0	0	0	0	0	111000		
January 2005	410186.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126551.2	0	0	0	0	0	0	126551.2		
July 2005	532284	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1665	155874	19124	9	263	0	1407	178442		
January 2006	646735	48400	0	0	35216	0	83620	0	0	0	0	0	0	0	6575	0	6575	5408	234323	35543	354	93	0	2189	278538		
July 2006	989190	109669	0	0	0	0	109669	0	82	0	0	0	0	0	6081	0	6173	10401	33440	46467	1125	97	0	6752	395242		
January 2007	1350819	142916	0	59	0	0	142975	0	3088	0	0	0	0	0	6135	0	9224	12338	457519	3261	1195	4	0	17124	636	491442	
July 2007	1542348	109442	0	0	53737	0	154179	0	19353	0	0	0	0	0	6095	0	25448	19758	756177	2380	7499	0	0	98170	20157	883982	
	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																											
January 2003																											
July 2003																											
January 2004	80239.2	46.3%	93000	53.7%	80239.2	46.3%	93000	53.7%	173239.2																		
July 2004	108900.6	49.5%	111000	50.5%	108900.6	49.5%	111000	50.5%	219900.6																		
January 2005	410186.4	76.4%	126551.2	23.6%	410186.4	76.4%	126551.2	23.6%	536737.6																		
July 2005	532284	74.9%	178442	25.1%	532284	74.9%	178442	25.1%	710726																		
January 2006	653313	64.3%	362528	35.7%	730358	71.9%	285483	28.1%	1015841																		
July 2006	995363	66.2%	508911	33.8%	1098859	73.0%	405415	27.0%	1504274																		
January 2007	1360043	68.2%	634417	31.8%	1493794	74.9%	500666	25.1%	1994460																		
July 2007	1567797	60.2%	1038161	39.8%	1696528	65.1%	909430	34.9%	2605958																		

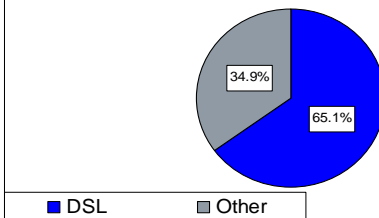
BB lines Mkt share (Poland / July 2007)



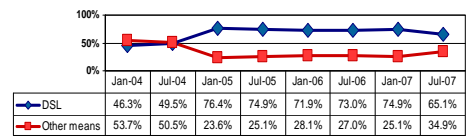
Broadband lines by operator (Poland)



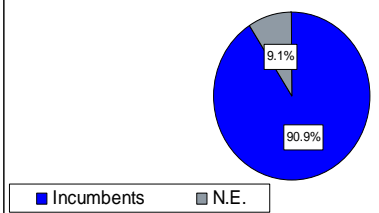
BB lines by technology (Poland / July 2007)



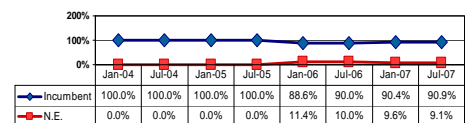
Broadband lines by technology (Poland)



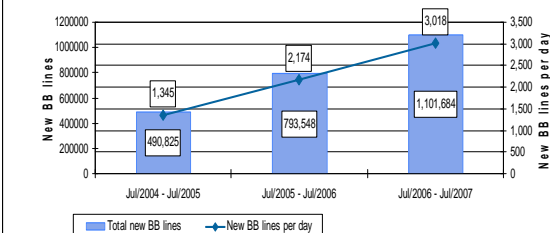
DSL lines Mkt share (Poland / July 2007)



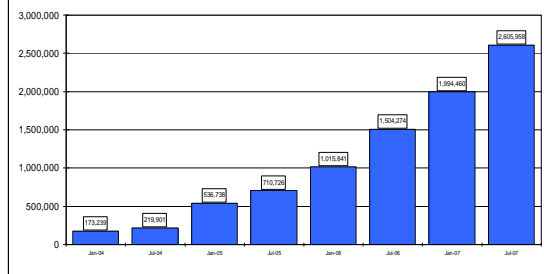
DSL lines by operator (Poland)



New broadband lines per year (Poland)



Broadband lines (Poland)



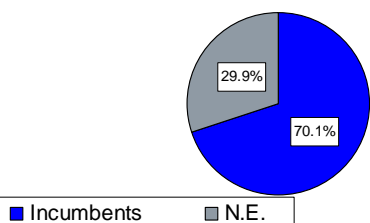


## Retail fixed broadband access in Portugal, July 2007

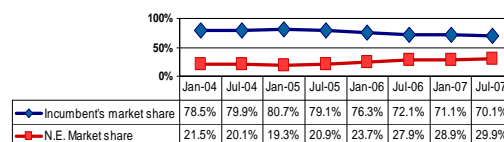
	New entrants' DSL lines on PSTN						Incumbents' access lines by other means										New entrants' access lines by other means																	
	Incumbent % DSL lines	Own network	Full ULL	Shared access	Blstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	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)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access WiFi Hotspots	Tot. (exc. WiFi)
July 2002	5333	0	20	0	189	0	209	0	95001	0	0	0	0	0	0	85001	0	50303	0	0	0	0	0	0	85001	0	50303	0	0	0	0	0	85001	50303
January 2003	43557	0	54	0	9589	0	9643	0	140340	0	0	0	0	0	0	140340	0	61146	0	0	0	0	0	0	140340	0	61146	0	0	0	0	0	140340	61146
July 2003	90722	0	295	0	16550	0	16845	0	187608	0	0	0	0	0	0	187608	0	74731	0	0	0	0	0	0	187608	0	74731	0	0	0	0	0	187608	74731
January 2004	160705	0	1355	0	22800	0	24155	0	232007	0	0	0	0	0	0	232007	0	83570	0	0	0	0	0	0	232007	0	83570	0	0	0	0	0	232007	83570
July 2004	250241	0	4291	0	28833	0	33024	0	287296	1289	0	0	0	0	0	270087	797	97340	2100	0	0	0	0	0	270087	797	97340	2100	0	0	0	0	270087	102323
January 2005	353034	0	7870	4	33281	0	41135	0	305000	1272	0	0	0	0	0	306272	1371	120023	2010	0	0	0	0	0	306272	1371	120023	2010	0	0	0	0	306272	123889
July 2005	500405	0	27623	6	48224	0	75853	0	333000	1258	0	0	0	0	0	334258	1638	138919	1982	0	0	0	0	0	334258	1638	138919	1982	0	0	0	0	334258	144037
January 2006	585579	0	68602	6	53729	0	122337	0	346077	1246	0	0	0	0	0	347323	1644	161944	1974	0	0	0	0	0	347323	1644	161944	1974	0	0	0	0	347323	167062
July 2006	636125	0	139883	6	59984	0	159873	0	342845	1263	0	0	0	0	947	344208	1801	174181	2056	0	0	0	0	0	344208	1801	174181	2056	0	0	0	0	344208	179538
January 2007	686681	0	188296	3	51440	0	238739	0	358569	1046	0	0	0	0	1159	359615	3532	179081	2162	0	0	0	0	0	359615	3532	179081	2162	0	0	0	0	359615	184775
July 2007	717612	0	236789	3	26138	0	262928	0	376834	1046	0	0	0	0	1341	378175	5615	197369	2405	0	0	0	0	0	378175	5615	197369	2405	0	0	0	0	378175	205339

	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	100334	66.5%	50512	33.5%	5542	3.7%	145304	96.3%	150846
January 2003	183997	70.7%	76299	29.3%	52810	20.3%	207486	79.7%	260296
July 2003	278330	75.2%	91546	24.8%	107537	29.1%	262339	70.9%	369876
January 2004	392712	78.5%	107725	21.5%	184860	36.9%	315577	63.1%	500437
July 2004	530428	79.9%	133617	20.1%	293435	44.2%	370610	55.8%	664045
January 2005	689306	80.7%	164824	19.3%	424169	49.7%	429961	50.3%	854130
July 2005	834663	79.1%	219890	20.9%	576258	54.6%	478295	45.4%	1054553
January 2006	932902	76.3%	289399	23.7%	707916	57.9%	514385	42.1%	1222301
July 2006	980333	72.1%	379411	27.9%	835998	61.5%	523746	38.5%	1359744
January 2007	1046296	71.1%	424514	28.9%	926420	63.0%	544390	37.0%	1470810
July 2007	1097552	70.1%	468317	29.9%	980540	62.6%	585329	37.4%	1565869

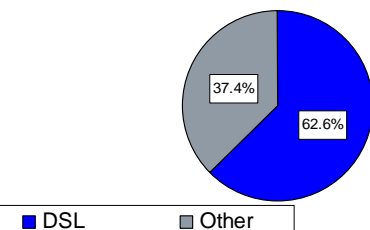
BB lines Mkt share (Portugal / July 2007)



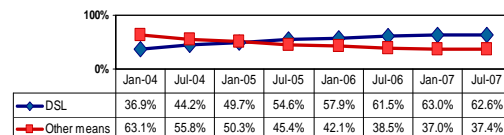
Broadband lines by operator (Portugal)



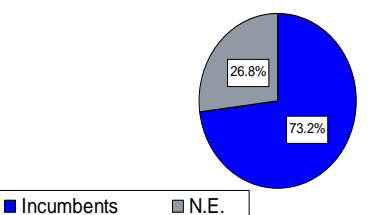
BB lines by technology (Portugal / July 2007)



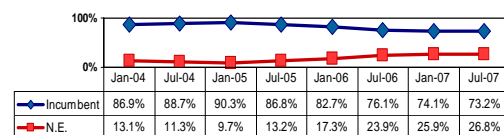
Broadband lines by technology (Portugal)



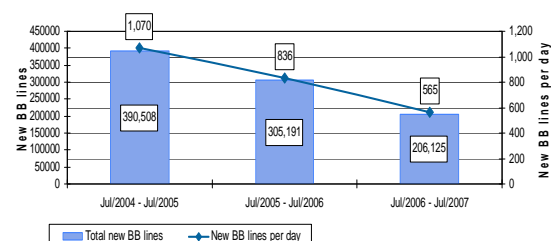
DSL lines Mkt share (Portugal / July 2007)



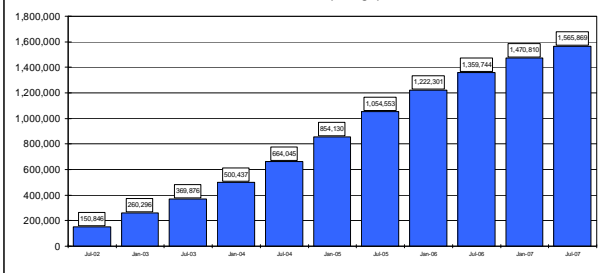
DSL lines by operator (Portugal)



New broadband lines per year (Portugal)



Broadband lines (Portugal)

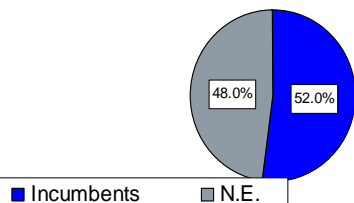


## Retail fixed broadband access in Slovenia, July 2007

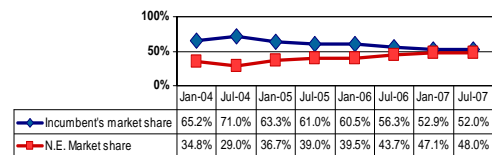
	Incumbent's DSL lines	New entrants' DSL lines on PSTN				Total new entrants DSL lines	Incumbents' access lines by other means						Public access WiFi Hotspots	New entrants' access lines by other means						Public access WiFi Hotspots	Tot. (exc. WiFi)			
		Own network	Full ULL	Shared access	Bitstream access		Resale	WLL	Cable modem	Leased lines	Fiber to the home	Satellite		PLC	Other	WLL	Cable modem	Leased lines	Fiber to the home			Satellite	PLC	Other
July 2002																								
January 2003																								
July 2003	37907	0	0	0	423	0	423	0	1215	70	0	0	0	186	0	1471	422	19929	125	0	0	121	0	20597
January 2004	52929	0	0	0	911	0	911	0	1064	0	243	0	0	0	1307	150	20242	0	745	0	55	0	21192	
July 2004	73651	0	0	0	1271	0	1271	0	843	0	275	0	0	0	1117	225	40190	0	1418	0	159	0	41992	
January 2005	94192	0	0	0	1544	196	1740	0	1001	0	315	0	0	0	1316	358	52338	0	485	0	290	0	55421	
July 2005	118191	0	847	0	10243	0	11090	0	571	0	300	0	0	54	871	525	64971	0	888	15	130	0	66534	
January 2006	128355	0	7945	3839	8678	8471	26933	0	229	0	305	0	0	255	534	251	71890	0	867	0	132	18	73140	
July 2006	147708	0	16180	11469	10951	8151	46631	0	192	0	160	0	0	295	352	249	81446	0	2876	0	369	4	84993	
January 2007	159984	0	25242	15164	21064	1236	62708	0	0	0	71	0	0	0	67	71	242	79325	503	4827	18	309	311	85224

	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									
January 2003									
July 2003									
January 2004	39378	65.2%	21020	34.8%	38330	63.5%	22068	36.5%	60398
July 2004	54236	71.0%	22103	29.0%	53840	70.5%	22499	29.5%	76339
January 2005	74768	63.3%	43263	36.7%	74922	63.5%	43109	36.5%	118031
July 2005	95508	61.0%	61161	39.0%	95932	61.2%	60737	38.8%	156669
January 2006	119062	60.5%	77624	39.5%	120281	65.7%	67405	34.3%	196686
July 2006	128889	56.3%	100073	43.7%	155288	67.8%	73674	32.2%	228962
January 2007	148060	52.9%	131600	47.1%	194339	69.5%	85321	30.5%	279660
July 2007	160055	52.0%	147930	48.0%	222690	72.3%	85295	27.7%	307985

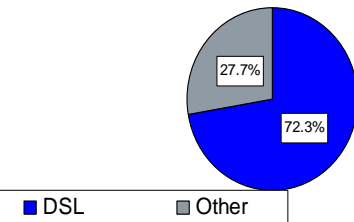
BB lines Mkt share (Slovenia / July 2007)



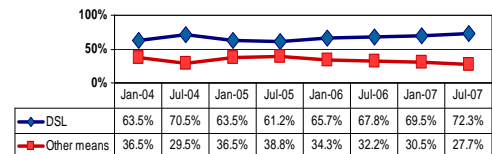
Broadband lines by operator (Slovenia)



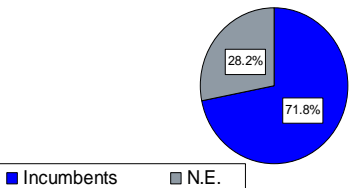
BB lines by technology (Slovenia / July 2007)



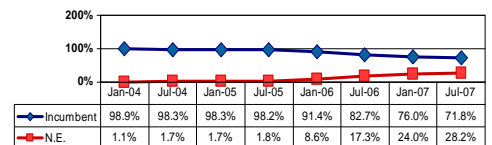
Broadband lines by technology (Slovenia)



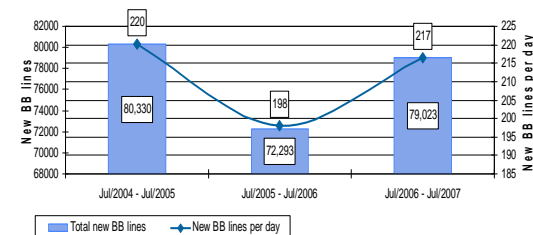
DSL lines Mkt share (Slovenia / July 2007)



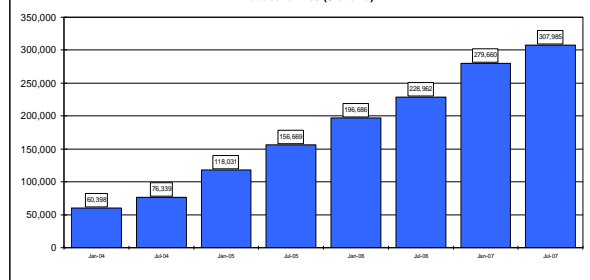
DSL lines by operator (Slovenia)



New broadband lines per year (Slovenia)



Broadband lines (Slovenia)

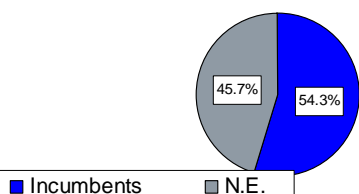


## Retail fixed broadband access in Slovakia, July 2007

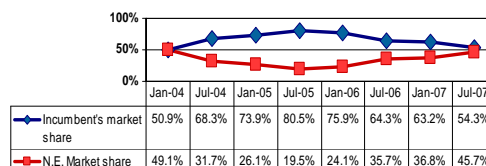
	New entrants' DSL lines on PSTN					Incumbents' access lines by other means										New entrants' access lines by other means											
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants' DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	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																											
January 2003																											
July 2003																											
January 2004	4210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	785	3280	0	0	0	0	0	0	406	
July 2004	9900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	785	3800	0	0	0	0	0	0	458	
January 2005	38334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1100	9234	200	0	0	0	3000	0	1353	
July 2005	64539	0	0	0	0	0	0	0	0	174	0	0	0	0	0	0	0	174	1200	14472	0	0	0	0	0	1567	
January 2006	104487	0	0	0	0	0	0	0	0	226	0	0	0	0	0	0	0	226	1500	20663	2370	0	0	8500	25	3323	
July 2006	138139	0	0	0	0	0	2364	2364	0	0	211	0	0	0	55	211	2500	25552	980	22500	24	0	0	22033	500	74589	
January 2007	176589	0	0	0	0	0	5802	5802	0	0	248	0	0	0	0	248	15000	36480	850	29542	24	0	0	15000	500	86936	
July 2007	202343	0	0	0	0	0	9244	9244	0	0	248	0	0	0	0	248	57940	42765	972	38004	4	0	0	21024	500	163035	

	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									
January 2003									
July 2003									
January 2004	4210	50.9%	4065	49.1%	4210	50.9%	4065	49.1%	8275
July 2004	9900	68.3%	4585	31.7%	9900	68.3%	4585	31.7%	14485
January 2005	38334	73.9%	13535	26.1%	38334	73.9%	13535	26.1%	51869
July 2005	64713	80.5%	15672	19.5%	64539	80.3%	15846	19.7%	80385
January 2006	104695	75.9%	33232	24.1%	104487	75.8%	33440	24.2%	137927
July 2006	138350	64.3%	76953	35.7%	140503	65.3%	74800	34.7%	215303
January 2007	176837	63.2%	102798	36.8%	182391	65.2%	97244	34.8%	279635
July 2007	202343	54.3%	170050	45.7%	211339	56.8%	161054	43.2%	372393

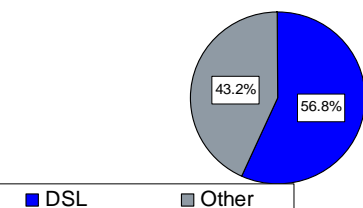
BB lines Mkt share (Slovakia / July 2007)



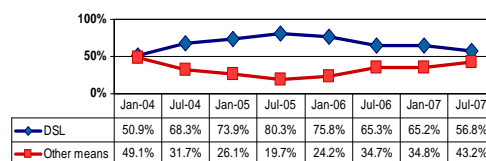
Broadband lines by operator (Slovakia)



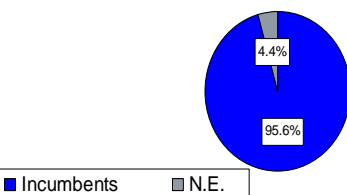
BB lines by technology (Slovakia / July 2007)



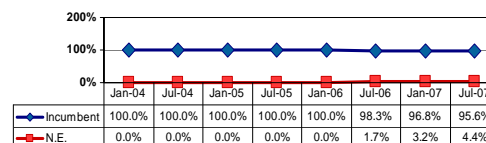
Broadband lines by technology (Slovakia)



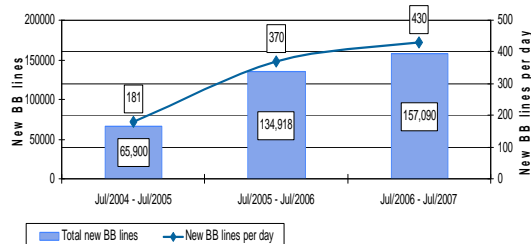
DSL lines Mkt share (Slovakia / July 2007)



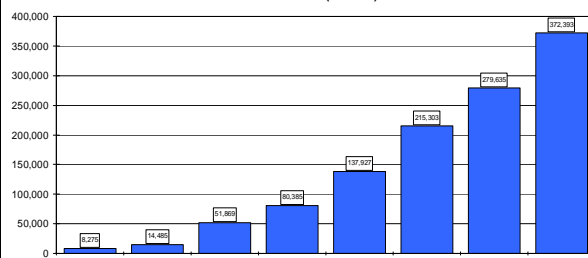
DSL lines by operator (Slovakia)



New broadband lines per year (Slovakia)



Broadband lines (Slovakia)

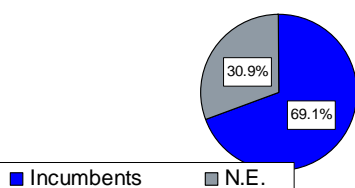


## Retail fixed broadband access in Finland, July 2007

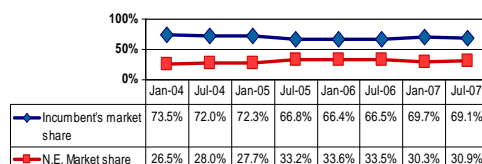
New entrants' DSL lines on PSTN										Incumbents' access lines by other means										New entrants' access lines by other means									
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Blstream access	Resale	Total new entrants' DSL lines	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	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	85000	0	13850	2150	1300	0	17300	0	16000	0	0	0	0	0	0	16000	0	24000	0	0	0	0	0	0	24000				
January 2003	119000	0	28000	8200	5000	0	36200	0	23500	0	0	0	0	0	0	23500	400	35000	0	0	0	0	0	0	35800				
July 2003	206000	0	39000	17000	9000	0	65000	50	28000	0	0	0	0	0	0	28050	400	35000	0	0	0	0	500	0	35500				
January 2004	256400	0	41004	12700	18600	0	72304	0	42300	0	0	0	0	0	0	30000	0	72300	2600	43100	0	100	20	620	0	46440			
July 2004	366000	0	47050	16850	28500	0	93400	0	50200	0	0	0	0	0	0	45000	0	106200	5100	47000	0	100	0	1000	13700	66900			
January 2005	440000	0	68400	28050	49200	0	145650	112	60400	0	35	0	0	0	0	63200	0	123747	3200	51950	0	130	0	950	14300	73532			
July 2005	516710	0	118277	48559	79737	0	246573	142	68766	0	60	0	0	0	0	64895	0	133863	3277	58398	0	186	0	1004	14603	77468			
January 2006	625227	0	141798	58466	103747	0	304811	451	81468	0	0	0	0	0	0	70002	0	151951	2700	67423	0	355	0	752	18904	92144			
July 2006	731412	0	168813	80448	87409	0	336670	1271	86195	0	0	0	0	0	0	50835	0	138301	2712	75311	0	0	0	830	23223	102076			
January 2007	837456	0	183116	61586	79666	0	324380	2214	95520	0	0	0	0	0	0	58345	0	156079	2643	85567	0	0	0	812	19414	108436			
July 2007	856666	0	195011	77159	80739	0	352929	7732	101114	0	0	0	0	0	0	60333	0	189175	3475	91813	0	0	0	860	20412	116657			

	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	111000	72.9%	41300	27.1%	112300	73.7%	40000	26.3%	152300
January 2003	199550	74.0%	70150	26.0%	215200	79.8%	54500	20.2%	269700
July 2003	234050	69.9%	100900	30.1%	271000	80.9%	63950	19.1%	334950
January 2004	328700	73.5%	118744	26.5%	328704	73.5%	118740	26.5%	447444
July 2004	411800	72.0%	160300	28.0%	400000	69.9%	172100	30.1%	572100
January 2005	563747	72.3%	216182	27.7%	585650	75.1%	194279	24.9%	779929
July 2005	650573	66.8%	324041	33.2%	763283	78.3%	211331	21.7%	974614
January 2006	777208	66.4%	394155	33.6%	929268	79.3%	242095	20.7%	1171363
July 2006	866713	66.5%	438746	33.5%	1068082	81.6%	240377	18.4%	1308459
January 2007	993535	69.7%	432816	30.3%	1161836	81.5%	264515	18.5%	1426351
July 2007	1048842	69.1%	469586	30.9%	1212595	79.9%	305833	20.1%	1518428

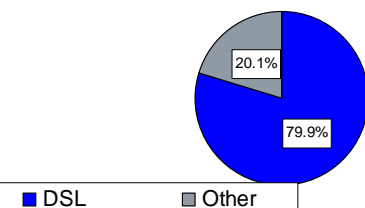
BB lines Mkt share (Finland / July 2007)



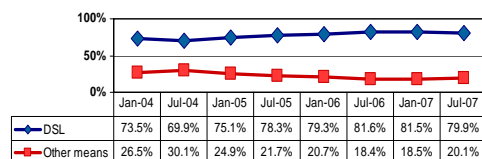
Broadband lines by operator (Finland)



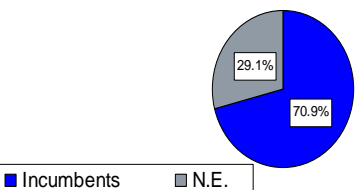
BB lines by technology (Finland / July 2007)



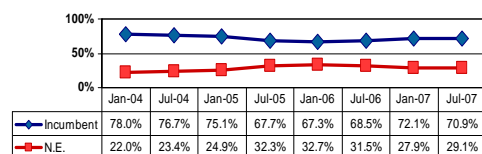
Broadband lines by technology (Finland)



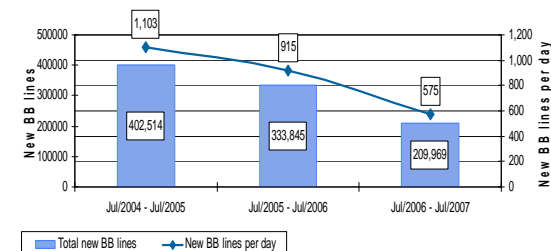
DSL lines Mkt share (Finland / July 2007)



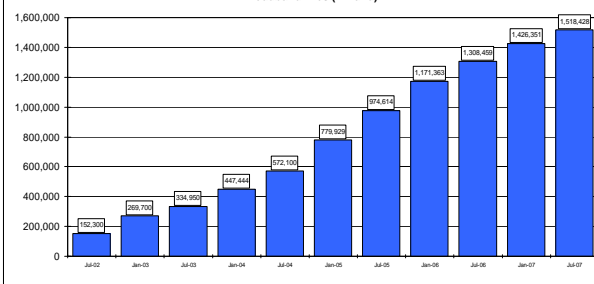
DSL lines by operator (Finland)



New broadband lines per year (Finland)



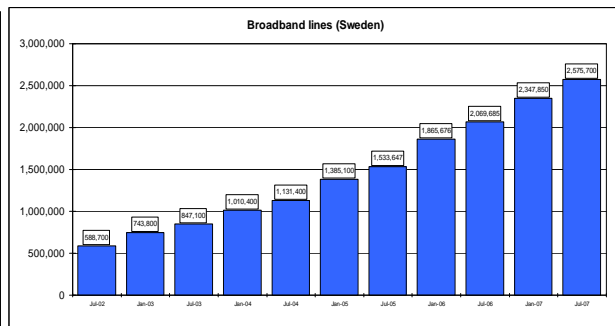
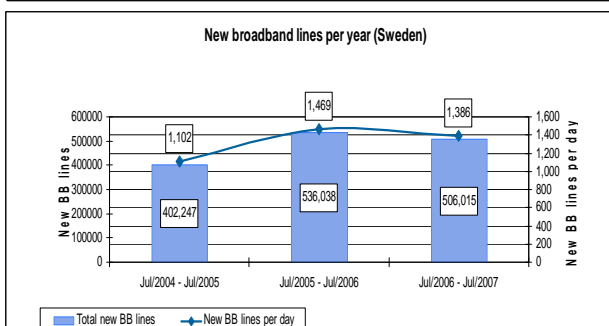
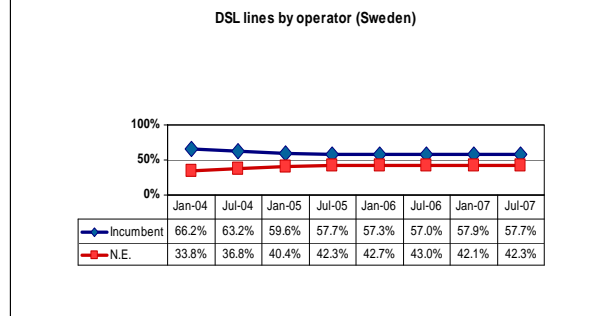
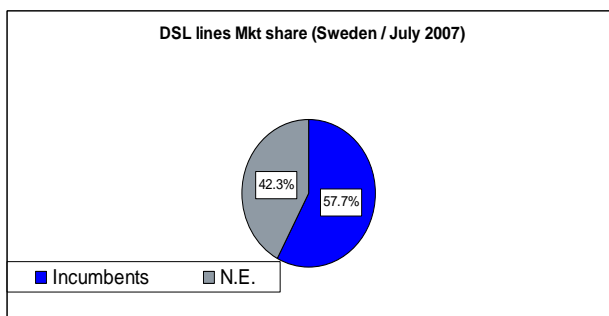
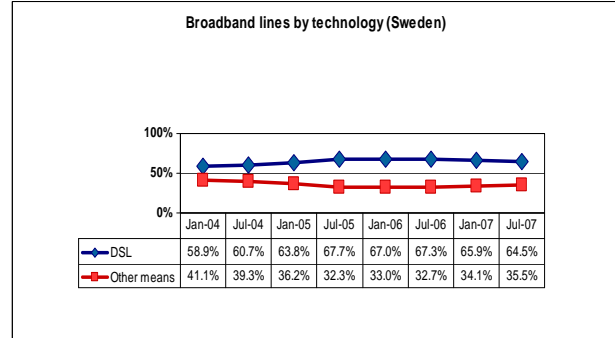
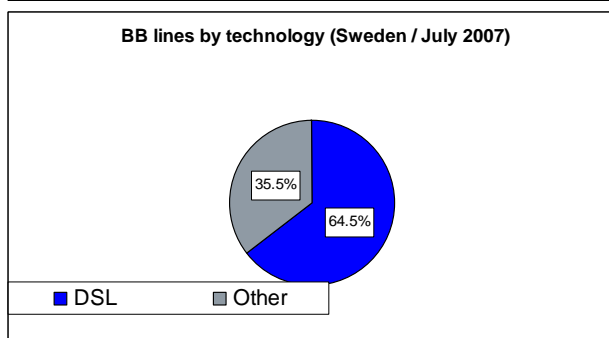
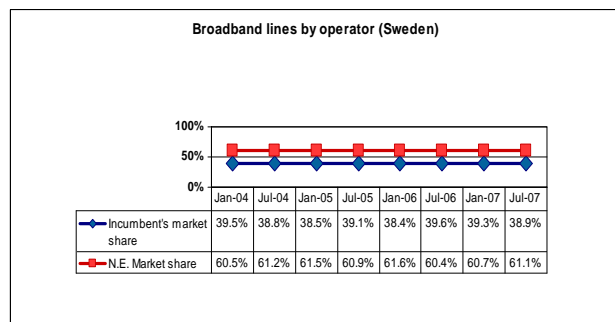
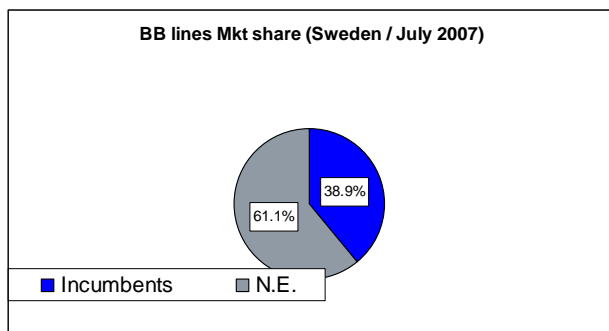
Broadband lines (Finland)



**Retail fixed broadband access in Sweden, July 2007**

Date	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	Total (excl. WIFI)	WLL	Cable modem	Leased lines	Fiber to the home	Satellite	PLC	Other	Public access: WIFI	Hotspots	Total (excl. WIFI)
July 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2500	0	0	0	0	0	0	0	0	0	2500
January 2001	317100	0	0	4500	3000	1800	114600	112800	0	7200	3000	0	0	0	0	0	7500	3000	8500	0	13400	0	0	0	0	0	21200
July 2001	360000	0	0	3000	3000	3000	118000	135300	0	0	0	0	0	0	0	0	7500	3000	8500	0	13400	500	0	0	0	0	24400
January 2004	394500	0	0	6000	46000	12000	146000	201200	0	0	5000	0	0	0	0	0	7500	3000	21200	0	18600	700	300	5000	0	0	416200
January 2004	434500	0	0	11000	88000	3200	150000	252200	0	0	5000	0	0	0	0	0	5000	3000	22900	0	20000	800	100	4000	0	0	446200
January 2005	528000	0	0	24000	140000	3200	144000	357200	0	0	5000	0	0	0	0	0	5000	3000	24900	0	24000	800	100	4000	0	0	494800
July 2005	595900	0	0	38441	260108	3200	153000	439747	0	0	5000	0	0	0	0	0	7000	24300	0	24000	800	100	4000	0	0	504400	
January 2006	65851	71100	0	0	16000	3200	16000	633441	0	0	5000	0	0	0	0	0	7000	24300	0	24000	800	1100	800	0	0	0	725885
July 2006	794500	0	0	100000	368000	0	130000	598000	0	0	4000	21000	0	0	0	0	25000	8600	395000	8000	282000	1000	85	0	0	0	672885
January 2007	885000	0	0	119000	400000	0	130000	652000	0	0	2000	24000	0	0	0	0	25000	8600	445000	10000	310000	850	0	0	0	0	773885
January 2007	955000	0	0	130000	410000	0	130000	710000	0	0	2000	24000	0	0	0	0	25000	8600	455000	10000	320000	850	0	0	0	0	786885

	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	322000	54.7%	266700	45.3%	357200	60.7%	231500	39.3%	588700
January 2003	320200	52.7%	318100	52.3%	339400	59.1%	232300	40.9%	571700
July 2003	365000	43.1%	482100	56.9%	495300	58.5%	351800	41.5%	847100
January 2004	398000	39.5%	611400	60.5%	595200	58.9%	415200	41.1%	1010400
July 2004	381000	38.2%	619240	61.8%	586500	58.6%	401300	41.4%	987800
January 2005	533000	38.5%	852100	61.5%	883200	63.8%	501900	36.2%	1385100
July 2005	599000	39.1%	934647	60.9%	1038747	67.7%	494900	32.3%	1533647
January 2006	670000	38.4%	1143670	61.6%	1143670	61.3%	511520	31.3%	1655190
July 2006	819000	39.6%	1250855	60.4%	1392000	67.3%	677685	32.7%	2069685
January 2007	820000	39.3%	1265850	60.7%	1548000	65.9%	799850	34.1%	2347850
July 2007	1003000	42.2%	1382700	57.8%	1701400	61.7%	914700	38.3%	2616100

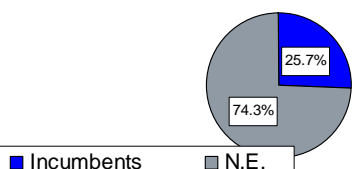


## Retail fixed broadband access in United Kingdom, July 2007

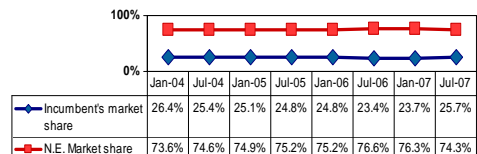
	New entrants' DSL lines on PSTN					Incumbents' access lines by other means										New entrants' access lines by other means										Public access (WIFI)			
	Incumbent's DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable modem	Leased lines	Fiber 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)	Public access (WIFI)	Tot. (exc. WIFI)		
July 2002	182000	0	600	0	0	0	111500	112100	0	0	0	0	0	0	530	0	3300	418000	0	0	0	0	0	0	0	422000			
January 2003	259000	0	2194	84	0	0	259000	251278	0	0	0	0	0	0	1778	0	1778	2500	736000	0	0	0	0	0	2500	0	741000		
July 2003	563348	0	3567	2305	0	0	530298	538170	0	0	0	0	0	0	2185	0	2185	2500	1098000	0	0	0	0	0	3300	0	1103800		
January 2004	834496	0	5418	2812	65000	0	886973	870203	0	0	0	0	0	0	2500	0	2500	2500	1359000	0	0	0	0	0	3500	0	1365000		
July 2004	1114974	0	7486	5948	224841	0	1393731	1638087	0	0	0	0	0	0	2500	0	2500	2500	1634000	0	0	0	0	0	3500	0	1640000		
January 2005	1536902	0	10899	16902	341897	0	2297051	2666748	0	0	0	0	0	0	2500	0	2500	2500	1825000	0	0	0	0	0	3500	0	1831000		
July 2005	2002495	0	38418	34722	593522	0	3114835	3781587	0	0	0	0	0	0	0	0	2500	2270809	0	0	0	0	0	0	8000	0	2279109		
January 2006	2450578	0	89022	82978	876038	0	3746935	4814943	0	0	0	0	0	0	0	0	2500	2814625	0	0	0	0	0	0	8000	0	2821105		
July 2006	2720000	60964	163066	417079	1010691	0	4333083	5984903	0	0	0	0	0	0	0	0	2500	2902300	0	0	0	0	0	0	8000	0	2910800		
January 2007	3102786	70272	263350	1031732	1016981	0	4550197	6925121	0	0	0	0	0	0	0	0	2500	3058500	0	0	0	0	0	0	8000	0	3067000		
July 2007	3717759	79482	487707	1735880	946509	0	4997036	7445594	0	0	0	0	0	0	0	0	2500	3116400	0	0	0	0	0	0	8000	0	3120900		

	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	182530	25.5%	534100	74.5%	294100	41.0%	422530	59.0%	716630
January 2003	300778	22.6%	1032278	77.4%	590278	44.3%	742778	55.7%	1333056
July 2003	565533	25.6%	1639970	74.4%	1099518	49.9%	1105985	50.1%	2205503
January 2004	836906	26.4%	2335203	73.6%	1804609	56.9%	1367500	43.1%	3172109
July 2004	1117474	25.4%	3278087	74.6%	2753061	62.6%	1642500	37.4%	4395561
January 2005	1539402	25.1%	4597749	74.9%	4203651	68.5%	1933500	31.5%	6137151
July 2005	2002405	24.8%	6060706	75.2%	5784002	71.7%	2279109	28.3%	8063111
January 2006	2450578	24.8%	7438048	75.2%	7265521	73.5%	2623105	26.5%	9888626
July 2006	2720000	23.4%	8895703	76.6%	8704903	74.9%	2910800	25.1%	11615703
January 2007	3102786	23.7%	9999512	76.3%	10035298	76.6%	3067000	23.4%	13102298
July 2007	3717759	25.7%	10746494	74.3%	11263353	77.9%	3200900	22.1%	14464253

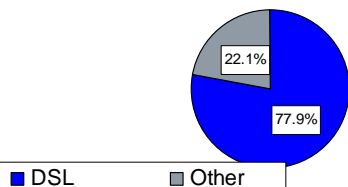
BB lines Mkt share (United Kingdom / July 2007)



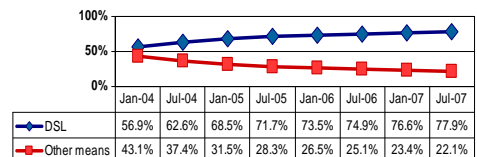
Broadband lines by operator (United Kingdom)



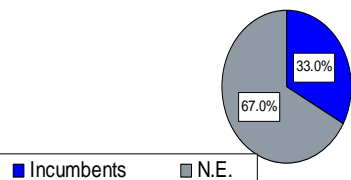
BB lines by technology (United Kingdom / July 2007)



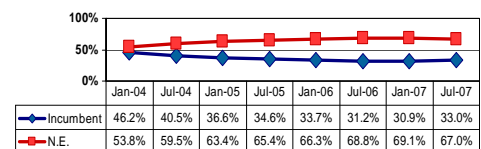
Broadband lines by technology (United Kingdom)



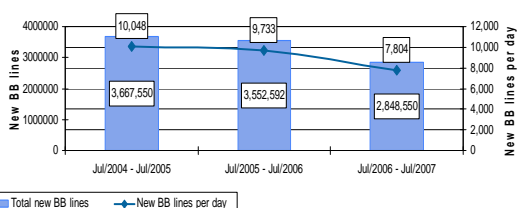
DSL lines Mkt share (United Kingdom / July 2007)



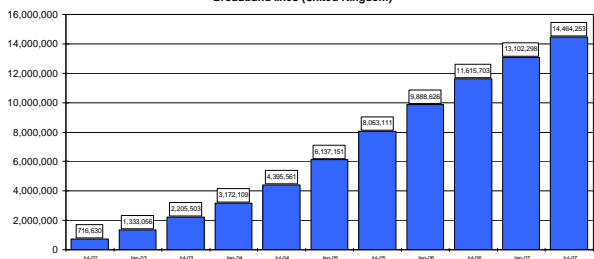
DSL lines by operator (United Kingdom)



New broadband lines per year (United Kingdom)



Broadband lines (United Kingdom)

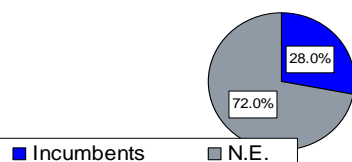


## Retail fixed broadband access in Bulgaria, July 2007

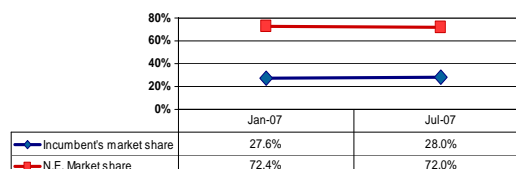
	New entrants' DSL lines on PSTN						Incumbents' access lines by other means						New entrants' access lines by other means						Public access WiFi Hotspots	Tot. (exc. WiFi)							
	Incumbents' DSL lines	Own network	Full ULL	Shared access	Bitstream access	Resale	Total new entrants DSL lines	WLL	Cable 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																											
January 2003																											
July 2003																											
January 2004																											
July 2004																											
January 2005																											
July 2005																											
January 2006																											
July 2006																											
January 2007	95036	0	0	0	0	30	30	0	0	0	136	0	0	315	0	454	0	64918	0	6920	1	0	178218	0	250067		
July 2007	121286	0	0	0	0	51	51	0	0	0	0	0	0	468	0	468	1367	67363	503	12745	2	0	231669	0	313379		

	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									
January 2003									
July 2003									
January 2004									
July 2004									
January 2005									
July 2005									
January 2006									
July 2006									
January 2007	95490	27.6%	250067	72.4%	95066	27.5%	250511	72.5%	345577
July 2007	121766	28.0%	313433	72.0%	121363	27.9%	313846	72.1%	435199

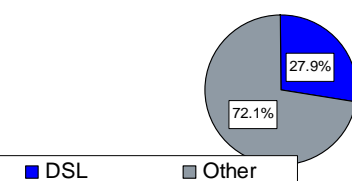
BB lines Mkt share (Bulgaria / July 2007)



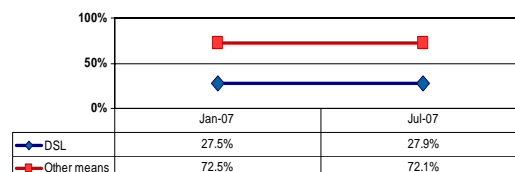
Broadband lines by operator (Bulgaria)



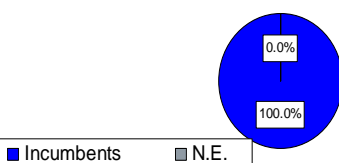
BB lines by technology (Bulgaria / July 2007)



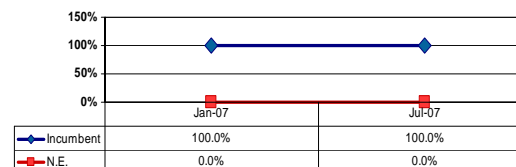
Broadband lines by technology (Bulgaria)



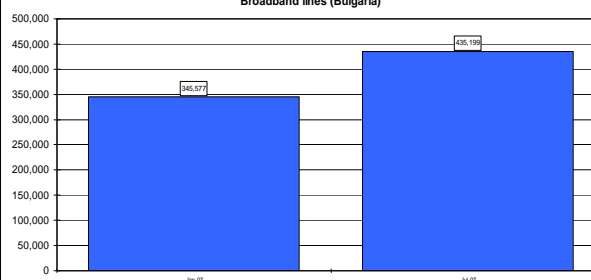
DSL lines Mkt share (Bulgaria / July 2007)



DSL lines by operator (Bulgaria)



Broadband lines (Bulgaria)

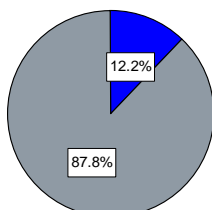


## Retail fixed broadband access in Romania, July 2007

	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																									
January 2003																									
July 2003																									
January 2004																									
July 2004																									
January 2005																									
July 2005																									
January 2006																									
July 2006																									
January 2007	95834	1490	729	0	0	0	2219	0	0	302	131	0	0	0	0	433	16735	393514	71	52705	131	0	525782	522	989836
July 2007	175235	1631	927	0	0	0	2558	0	0	0	100	0	0	0	883	983	29622	409593	114	65007	140	0	741307	732	1247214

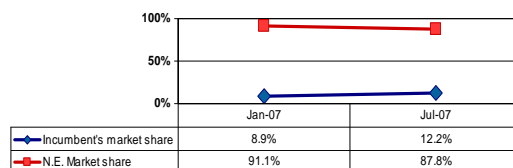
	Incumbents broadband	Incumbents market share	New entrants Broadband	N.E. Market share	Total broadband lines DSL	Market share-DSL	Total broadband lines other means	Market share other means	Total broadband access lines
July 2002									
January 2003									
July 2003									
January 2004									
July 2004									
January 2005									
July 2005									
January 2006									
July 2006									
January 2007	96267	8.9%	991157	91.1%	98053	9.0%	989371	91.0%	1087424
July 2007	174235	12.2%	1249772	87.8%	175810	12.3%	1248197	87.7%	1424007

BB lines Mkt share (Romania / July 2007)

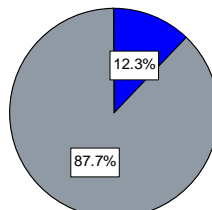


■ Incumbents ■ N.E.

Broadband lines by operator (Romania)

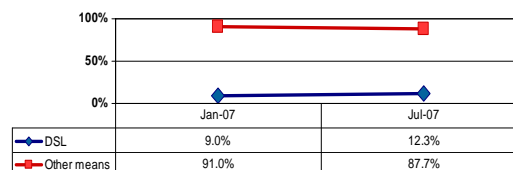


BB lines by technology (Romania / July 2007)

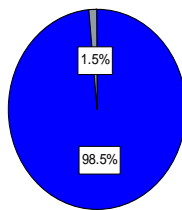


■ DSL ■ Other

Broadband lines by technology (Romania)

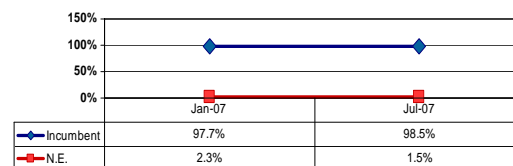


DSL lines Mkt share (Romania / July 2007)

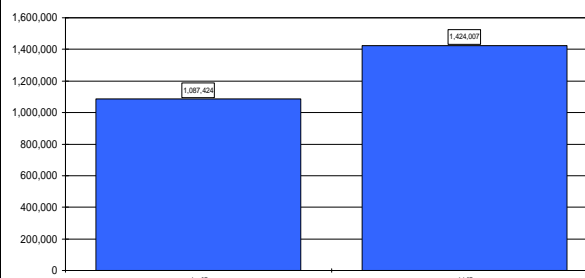


■ Incumbents ■ N.E.

DSL lines by operator (Romania)



Broadband lines (Romania)





Data on national population used in this report

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

Source: Eurostat (data for BE, IE and LU from 2006)