

Telecommunications 2008

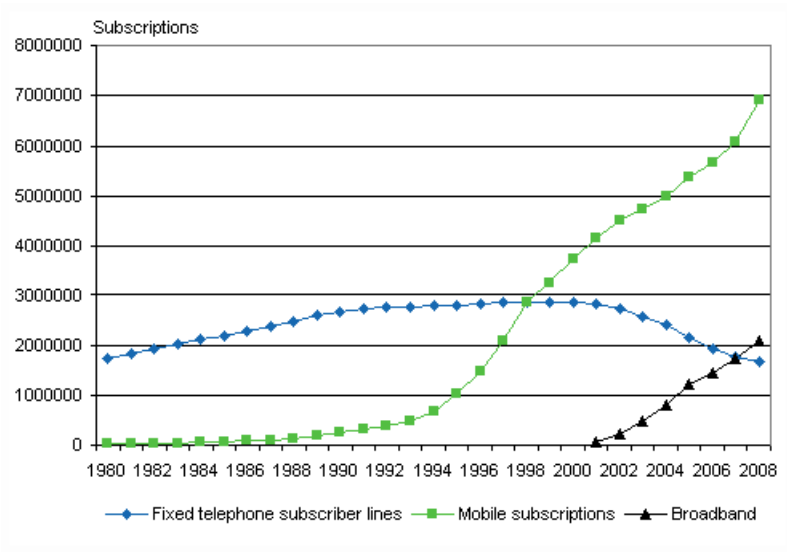
Number of telecommunications subscriptions in Finland quadrupled in 20 years

In 1988 there were a total of nearly 2.6 million telephone subscriptions in Finland; fixed telephone network subscriptions numbered nearly 2.5 million and mobile phone subscriptions some 140,000. In the past two decades, communication has changed from location-specific use of telephones to a more varied kind of communication not bound to a certain location in which non-voice services and data transmission have an increasingly important role alongside voice services. At the end of 2008 there were already over 10 million telecommunications subscriptions in Finland; fixed telephone network subscriptions numbered close on 1.7 million, mobile phone subscriptions 6.9 million and broadband subscriptions nearly 2.1 million.

In 2008 the use of services in the mobile communication network increased again from previous years. The number of calls from mobile phones increased by 3 per cent from the year before and call minutes increased by some 8 per cent. The number of text and multimedia messages sent increased as well; by 12 and 32 per cent, respectively, from the year 2007. The volume of data transmitted in the mobile phone network grew tenfold from 2007 volumes. This growth was supported by the increase in mobile broadband subscriptions in 2008. At the end of the year the number of mobile broadband subscriptions was reported at nearly 490,000, while one year previously their number was some 140,000.

The number of personnel of telecommunications operators fell by 11 per cent from the year before in 2008. Turnover contracted by some 5 per cent from that in 2007. Telecommunications network operators' investments in network and other tangible assets stayed on level with the year before.

Fixed telephone subscriptions and mobile phone subscriptions in 1980-2008 and broadband subscriptions on 2001-2008



In the above figure mobile broadband subscriptions are included in both broadband and mobile phone subscriptions.

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Subscriber lines and subscriptions

The stock of telecommunication subscriptions and the forms of communication have changed in Finland over a relatively short period of time. In the past five years the already high mobile phone subscription density has continued growing – lately largely on account of the proliferation of mobile broadband. The number of broadband subscriptions has grown annually and the use of services in the fixed network has decreased gradually as also subscription numbers have been falling. The year 2008, for its part, strengthened this development.

Fixed telephone subscriber lines

The total number of fixed telephone network subscriptions, which includes conventional telephone subscriptions and ISDN channels, has decreased every year since the early 2000s. At the end of 2008 fixed telephone subscriptions totalled close on 1.7 million, equalling 31 subscriptions per 100 population. The number of subscriptions fell by a good 5 per cent from the end of the previous year. Some 59 per cent of subscriptions were used by private households and the remaining 41 per cent were used by others, such as businesses or the public sector.

The number of ISDN subscriber lines continued to fall in 2008, as it has done in recent years. At the end of the year the number of basic rate subscriber lines was some 74,800 and that of primary rate subscriber lines was some 8,300. At the highest – in the early years of the 2000s – the number of basic rate subscriber lines was reported at slightly over 200,000 and that of primary rate subscriber lines at over 10,000. At the end of 2008 some 8 per cent of the basic rate ISDN subscriber lines were in household use.

Broadband subscriptions

At the end of 2008, the number of broadband subscriptions in Finland totalled nearly 2.1 million, which is one-fifth higher than at the end of 2007.

The majority of these subscriptions were DSL subscriptions, which include the xDSL connections supplied by telecommunications operators to individual end users (over 1.2 million) and housing corporations as well as shared connections to real estate which the telecommunications operators divide to end users (some 124,000 in total). These data do not include xDSL subscriptions of housing corporations broken down to the end user level. The number of DSL subscriptions to end users decreased by some 3 per cent from the year before. By contrast, the number of shared connections to real estate, as well as that of e.g. cable modems, increased from 2007. The number of mobile broadband subscriptions grew 3.5-fold in the year, and stood at nearly 490,000 at the end of the year.

All in all roughly three-fourths of broadband subscriptions were reported as being in private household use. Seventy-eight per cent of the DSL subscriptions delivered to end users, 69 per cent of the shared connections to real estate, the majority (97 per cent) of cable modems and 63 per cent of mobile broadband subscriptions were in private household use. Approximately three-fourths of the remaining other broadband subscriptions were in private household use.

The transmission speed of 41 per cent of all broadband subscriptions was 2 Mbps or higher; 35 per cent had a transmission speed of at least 2 Mbps but under 10 Mbps, some six per cent of the subscriptions had a transmission speed of at least 10 Mbps but under 100 Mbps and just under one per cent had a transmission speed of at least 100 Mbps. As the majority of broadband subscriber lines are in private household use, the distribution of subscriptions in private household use by transmission speed follows that presented above. As regards business subscriptions, the shares of the subscriptions with the fastest transmission speeds were slightly smaller.

In 2008 the most common transmission speed continued to be 1 Mbps.

As increasingly efficient data transmission connections are used, the number of dial-up subscriptions has fallen year by year. At the end of 2008 the number of dial-up subscriptions reported by telecommunications operators was only 30,000, of which 13,000 were in business use.

Mobile network subscriptions

At the end of 2008, the number of mobile network subscriptions was 6.9 million, which equals 130 subscriptions per 100 population. The number of subscriptions increased in the year, by 14 per cent from the end of 2007. This increase was affected in particular by the increase of mobile broadband subscriptions from the year before.

Pre-paid subscriptions accounted for some 11 per cent of all mobile network subscriptions, while in 2007 their share was 9 per cent. In 2008 approximately 24 per cent of all mobile network subscriptions were in business use.

Volume of services

Outgoing calls from local telephone networks

In Finland the number of outgoing calls from local telephone networks grew every year until the early 2000s. The total annual number of call minutes also increased all the way to the early years of the 2000s. After that time the development took a turn and the total numbers of outgoing calls and call minutes have been decreasing each year.¹⁾ The volume of outgoing calls in 2008 represented only a fourth and the number of minutes approximately a fifth of the phone call volumes of ten years ago, that is, in 1998.

In 2008 a total of 0.9 billion outgoing calls were made from local telephone networks, whereas in 2007 they numbered slightly over 1 billion. In 2008 the volume of outgoing calls decreased by 14 per cent from the year before. Call minutes numbered just under 3.2 billion in 2008 which was 21 per cent down from the year before when outgoing call minutes from local telephone networks numbered slightly over 4 billion.

A third of calls and slightly more than half (53 per cent) of call minutes were made from private subscriptions. Dial-up calls accounted for 4 per cent of all call minutes in 2008. Dial-up minutes have decreased relatively quickly; in e.g. 2004 they represented one-third of local telephone network call minutes.

The distribution of outgoing calls from local telephone networks was roughly the same in 2008 as in 2007. One-third of the calls were local and 31 went to mobile networks. The share of long-distance calls was 9 per cent and that of international calls just under 4 per cent. Of all call minutes, local calls made up 45 per cent, long-distance calls 10 per cent, international calls 6 per cent and calls to mobile networks 23 per cent.

Services provided by the mobile communication network

The volume of outgoing calls and call minutes from mobile phones have been increasing year by year. This development continued in 2008, when a total of 4.9 billion calls were made from mobile phones. The number of calls increased by 3 per cent from that in 2007. Call minutes from mobile phones numbered over 14.5 billion, which is some 8 per cent more than in 2007.

The annual volume of outgoing calls from mobile phones has more than trebled in ten years. The number of call minutes in 2008 was 4.5 times that of call minutes in 1998.

As in the year before, slightly more than 70 per cent of outgoing calls and call minutes were made from private subscriptions in 2008. Of the calls made from mobile phones, about 90 per cent were to domestic mobile subscriber numbers, 9 per cent to domestic fixed line subscriber numbers and the remainder, roughly one per cent, to international subscriber numbers, either fixed or mobile. The distribution of call minutes was largely similar.

Similarly to phone calls, also the volume of other mobile communications services has grown each year. In 2008 sent text messages numbered close on 3.6 billion, which was 12 per cent up from the year before. The number of sent multimedia messages was nearly 38 million, which was 32 per cent more than in 2007. The total volume of data transmitted in the mobile phone network grew tenfold from 2007. In 2008 the total volume of transmitted data was nearly 4,900 terabytes, while in 2007 the total volume of transmissions was some 500 terabytes. In 2008 the majority of data transmitted, or 94 per cent, consisted of data transmitted by private subscription lines.

¹⁾As regards the total numbers of calls and call minutes, it should be noted that, as a general rule, these statistics do not cover calls transmitted in IP networks and, consequently, not the total number of calls and call minutes made from all networks.

Personnel and finances of telecommunications operators

In recent years the number of personnel at telecommunications operators has declined each year. It continued to fall also in 2008. The number of personnel decreased by 11 per cent from the year before and stood at approximately 12,000.

The total turnover of telecommunications operators contracted by some five per cent in 2008 from the year before and stood at close on EUR 4.3 billion. Nearly half of the turnover, 48 per cent, consisted of mobile telecommunications, 38 of fixed network operations and the remaining good 14 per cent of other activities, such as equipment sales and programme distribution services via cable television, television and radio.

The turnover of mobile telecommunications consisted of voice services, non-voice services, data transmission services as well as income from connections and roaming and other network operator income. The most important income source in mobile telecommunications continue to be voice services, whose share of mobile telecommunications turnover was 53 per cent in 2008. The turnover share of non-voice services was 11 per cent, that of data transmission services 7 per cent and that of network operator income 29 per cent.

A good one-third of the turnover of the fixed telephone network, or 36 per cent, consisted of voice services and some 64 per cent of data transmission services and other fixed telephone network services.

Of the turnover from other activities, 46 per cent came from equipment sales and 17 per cent from programme distribution services via cable television, television and radio.

Just under one-half of the total turnover of telecommunications operators, or 46 per cent, came from households and the remaining roughly 54 per cent from business services.

Telecommunications operators' investments in tangible assets in 2008 remained on level with those in 2007. They made investments to the total value of EUR 437 million. Slightly more was invested in telecommunication networks, which belong to tangible investments, than in the year before. Telecommunications operators' total network investments amounted to some EUR 378 million, which made up roughly 87 per cent of the value of all tangible investments.

Tables

Table 1. Number of fixed telephone subscriber lines, number of subscriber lines per 100 population and share of ISDN channels of all fixed lines in 1990, 1995 and 2000-2008

Year	Subscriber lines	Change, %	Subscriber lines/100 pop.	Share of ISDN channels, % ²
1990	2 669 697		53,4	
1995	2 799 379		54,7	0,8
2000	2 848 809		55,0	21,6
2001	2 806 172	-1,5	54,0	23,3
2002 ¹	2 725 607	-2,9	52,4	26,1
2003	2 567 592	-5,8	49,2	30,9
2004	2 390 197	-6,9	45,6	28,4
2005	2 139 713	-10,5	40,7	25,6
2006 ³	1 927 813	-9,9	36,5	24,9
2007	1 749 858	-9,2	33,0	25,8
2008	1 654 647	-5,4	31,1	24,1

1) Number of primary ISDN subscriber lines has been multiplied by 30 to obtain number of channels (multiplier used in 2001 was 25).

2) Basic rate ISDN subscriber lines, which contain two independent data transmission channels, equal two conventional subscriber lines, while primary rate ISDN subscriber lines, formed of 30 data transmission channels, equal thirty conventional subscriber lines

3) Revised figure.

Table 2. Numbers of ISDN basic and primary subscriber lines in 1995 and 2000-2008

Year	ISDN basic	ISDN primary
1995	5 962	454
2000 ¹	199 015	8 630
2001
2002	207 068	9 910
2003	224 418 ²	11 452
2004	157 532	12 125
2005	126 522	9 794
2006	96 325	9 585 ³
2007	91 903	8 927
2008	74 760	8 284

1) Partly estimated.

2) The number of subscriber lines overestimated due to revisions in the registering method.

3) Revised figure.

Table 3. Broadband subscriptions in 2001-2008

Year	DSL subscriptions	Cable modems	Mobile broadband subscriptions	Other ¹	Total
2001	61 467	61 467
2002	183 482	54 000		..	237 482
2003	379 305	87 304		5 491	472 100
2004	665 760	113 124		6 575	785 459
2005	1 047 811	155 364		7 392	1 210 567
2006	1 212 297	180 480		34 405	1 427 182
2007	1 364 069	206 623	141 835	20 067	1 732 594
2008	1 346 352	215 157	486 848	35 975	2 084 332

1) E.g. WLAN, WiMAX, fibre and PLC.

Table 4. Broadband access in OECD countries per 100 inhabitants in 2003-2008

Country ¹	Year									2008 Subscriptions total
	2003	2004	2005	2006	2007	2008	of which			
	Per 100 inhabitants						DSL	Cable modem	Other	
Denmark	13,0	18,8	25,0	31,9	35,1	37,2	22,6	9,9	4,7	2 021 404
Netherlands	11,8	19,0	25,3	31,8	34,8	35,8	21,8	13,4	0,6	5 855 000
Norway	8,0	14,9	21,9	27,7	31,2	34,5	23,8	6,9	3,8	1 607 750
Switzerland	10,1	17,3	23,1	28,5	31,0	33,5	23,2	9,7	0,6	2 533 643
Iceland	14,3	18,3	26,7	29,7	32,2	32,8	31,6	0,0	1,3	99 883
Korea	24,2	24,9	25,4	29,1	30,5	32,0	7,7	10,5	13,8	15 474 931
Sweden	10,7	14,5	20,3	26,0	30,3	32,0	19,1	6,2	6,7	2 905 000
Finland	9,5	15,0	22,5	27,2	30,7	30,7	25,9	4,1	0,7	1 616 900
Luxembourg	3,5	9,8	14,9	20,4	26,7	30,0	25,6	4,2	0,1	141 584
Canada	15,1	17,8	21,9	23,8	26,6	29,0	13,0	15,6	0,4	9 577 648
United Kingdom	5,4	10,5	15,9	21,6	25,8	28,5	22,4	6,1	0,1	17 275 660
Belgium	11,7	15,6	18,3	22,5	25,7	28,1	16,4	11,4	0,3	2 962 450
France	5,9	10,6	15,2	20,3	24,6	28,0	26,6	1,4	0,1	17 725 000
Germany	5,6	8,4	13,0	17,1	23,8	27,4	25,4	1,9	0,0	22 532 000
United States	9,7	12,8	16,8	19,6	23,3	26,7	11,1	13,7	1,9	80 071 074
Australia	3,5	7,7	13,8	19,2	23,3	25,4	19,9	4,3	1,2	5 368 000
Japan	10,7	15,0	17,6	20,2	22,1	23,6	9,1	3,2	11,3	30 107 327
New Zealand	2,6	4,7	8,1	14,0	18,3	21,9	19,5	1,3	1,0	914 961
Austria	7,6	10,2	14,1	17,3	19,6	21,6	13,9	7,2	0,6	1 792 408
Spain	5,4	8,4	11,7	15,3	18,0	20,8	16,5	4,0	0,2	9 156 969
Ireland	0,8	3,4	6,7	12,5	18,1	20,6	15,1	2,4	3,0	896 346
Italy	4,1	8,1	11,9	14,8	17,2	19,2	18,5	0,0	0,6	11 283 000
Czech Republic	0,5	1,6	6,4	10,6	14,6	17,2	6,8	3,7	6,7	1 769 684
Hungary	2,0	3,6	6,3	11,9	13,6	16,8	7,9	7,6	1,4	1 696 714
Portugal	4,8	8,2	11,5	13,8	14,4	16,0	9,4	6,3	0,3	1 692 306
Greece	0,1	0,4	1,4	4,6	9,1	13,5	13,5	0,0	0,0	1 506 614
Slovak Republic	0,3	1,1	2,5	5,1	7,6	11,5	6,6	1,2	3,7	618 871
Poland	0,8	2,1	2,4	6,9	8,8	10,5	7,2	3,1	0,1	3 995 458
Turkey	0,3	0,7	2,1	3,8	6,0	7,8	7,7	0,1	0,0	5 736 619
Mexico	0,4	0,8	2,2	3,5	4,3	7,2	5,1	1,9	0,2	7 604 629
OECD	7,3	10,2	13,6	16,9	20,0	22,6	13,6	6,4	2,6	266 539 833

1) Source: OECD

Table 5. Number of mobile phone subscriptions and number of subscriptions per 100 population in 1980, 1985 and 1990-2008

Year	Mobile subscriptions			Change, %	Subscriptions/ 100 pop.
	Digital	Analogue ¹	Total		
1980	-	23 482	23 482		0,5
1985	-	67 639	67 639		1,4
1990	-	257 872	257 872		5,2
1991	-	319 137	319 137	23,8	6,4
1992	3 308	382 713	386 021	21,0	7,6
1993	19 111	470 063	489 174	26,7	9,6
1994	110 155	565 410	675 565	38,1	13,2
1995	380 703	658 423	1 039 126	53,8	20,4
1996	830 585	646 391	1 476 976	42,1	28,8
1997	1 523 356	568 435	2 091 791	41,6	40,6
1998	2 498 793	347 192	2 845 985	36,1	55,2
1999	3 073 943	199 490	3 273 433	15,0	63,4
2000	3 672 762	55 863	3 728 625	13,9	72,0
2001	4 137 337	38 250	4 175 587	12,0	80,4
2002	4 516 772	-	4 516 772	8,2	86,8
2003	4 747 126	-	4 747 126	5,1	90,9
2004	4 999 060	-	4 999 060	5,3	95,5
2005	5 384 572	-	5 384 572	7,7	102,5
2006	5 679 010	-	5 679 010	5,5	107,6
2007	6 069 463	-	6 069 463	6,9	114,5
2008	6 901 014	-	6 901 014	13,7	129,6

1) By the end of 2002, the analogue mobile communications system was wound up in Finland.

Table 6. Total number of outgoing calls from (fixed) local networks and average length of call in 1995-2008

Year	Calls, total				Average length, minutes
	calls, million	change, %	minutes, million	change, %	
1995	3 164,0		11 754,4		3,7
1996	3 271,0	3,4	12 705,7	8,1	3,9
1997	3 407,7	4,2	13 586,9	6,9	4,0
1998	3 478,5	2,1	14 730,9	8,4	4,2
1999 ¹	3 498,3	0,6	16 105,7	9,3	4,6
2000 ²	3 515,2	0,5	16 373,8	1,7	4,7
2001 ³	3 365,7	-4,3	16 781,1	2,5	5,0
2002	3 147,0	-6,5	16 791,2	0,1	5,3
2003	2 455,1	-22,0	13 831,6	-17,6	5,6
2004	2 121,0	-13,6	11 442,9	-17,3	5,4
2005	1 531,4	-27,8	7 475,1	-34,7	4,9
2006	1 284,3	-16,1	5 370,2	-28,2	4,2
2007	1 041,9	-18,9	4 016,9	-25,2	3,9
2008	898,2	-13,8	3 164,0	-21,2	3,5

1) Partly estimated.

2) Partly estimated.

3) Coverage of data is not exhaustive.

Table 7. Outgoing calls from local fixed networks in 2008

Outgoing calls from local fixed networks	Local calls	Long- distance calls	International calls	To mobile networks	Other calls ¹
Calls, million	296,7	81,3	31,9	276,7	210,2
%	33,0	9,1	3,5	30,8	23,4
Minutes, million	1 427,9	308,5	190,5	716,1	518,1
%	45,1	9,7	6,0	22,6	16,4
Average length, minutes	4,8	3,8	6,0	2,6	2,5

1) Calls to e.g. corporate numbers and nationwide service numbers.

Table 8. Number of outgoing mobile phone calls, change from previous year and average length of call in 1995-2008

Year	Calls, total				Average length, minutes
	calls, million	change, %	minutes, million	change, %	
1995	149,4		316,1		2,1
1996	458,8	207,1	918,9	190,7	2,0
1997	898,9	95,9	1 831,9	99,4	2,0
1998	1 552,7	72,7	3 197,7	74,6	2,1
1999	2 167,8	39,6	4 514,0	41,2	2,1
2000	2 444,4	12,8	5 293,6	17,3	2,2
2001	2 921,3	19,5	6 519,8	23,2	2,2
2002	3 171,4	8,6	7 276,1	11,6	2,3
2003	3 403,6	7,3	8 160,7	12,2	2,4
2004	3 810,4	12,0	9 643,0	18,2	2,5
2005	3 995,2	4,8	10 848,2	12,5	2,7
2006	4 457,0	11,6	12 687,0	16,9	2,8
2007	4 778,1	7,2	13 477,1	6,2	2,8
2008	4 914,6	2,9	14 519,2	7,7	3,0

Table 9. Numbers of outgoing short messages and multimedia messages from mobile phones in 2002-2008

Year	Short messages, thousands ¹	Change, %	Short messages/subscription	Multimedia messages, thousands	Change, %
2002	1 324 668		293		
2003	1 647 218	24,3	347	2 314	
2004	2 193 498	33,2	439	7 386	219,2
2005	2 728 230	24,4	507	15 993	116,5
2006	3 087 998	13,2	544	21 568	34,9
2007	3 182 362	3,1	524	28 682	33,0
2008	3 566 523	12,1	517	37 801	31,8

1) Including service requests in short message format, i.e. special SMS services subject to charge, such as ring tones, screen logos or news updates.

Table 10. Personnel of telecommunications operators in 1995-2008

Year	Personnel, total	Change, %
1995	16 405	
1996	16 856	2,7
1997	17 976	6,6
1998 ¹	19 448	8,2
1999	21 601	11,1
2000	24 190	12,0
2001	25 015	3,4
2002 ²	19 426	..
2003	17 433	-10,3
2004	17 422	-0,1
2005	16 385	-6,0
2006	14 487	-11,6
2007	13 385	-7,6
2008	11 969	-10,6

1) Since 1998, average size of personnel.

2) Examination limited more closely than before to domestic business activities.

Table 11. Turnover and breakdown of turnover of telecommunications operators in 2008

Turnover	EUR million	%
Mobile network activities total, of which	2 026,7	47,5
voice services	1 075,2	25,2
non-voice services (SMS, MMS)	213,7	5,0
data transmission services	142,0	3,3
connections, roaming and other network operating income	595,9	14,0
Fixed network activities, of which	1 609,1	37,8
voice services	585,4	13,7
data transmission services and other fixed network services	1 023,6	24,0
Other activities total, of which	626,7	14,7
equipment sales	285,8	6,7
programme distribution services via cable television, television and radio	102,8	2,4
other activities	238,1	5,6
Turnover total	4 262,6	100,0

Table 12. Investments of telecommunications operators in tangible assets and telecommunication networks in 2003-2008, EUR million

Year	Tangible assets total, EUR million	Change, %	Telecom. networks EUR million	Change, %
2003	566,6		438,5	
2004	580,5	2,5	414,1	-5,6
2005	491,2	-15,4	362,7	-12,4
2006	444,1	-9,6	380,1	4,8
2007	436,4	-1,7	376,3	-1,0
2008	436,7	0,1	377,8	0,4

Table 13. Number of employees and value of gross output of manufacture of telecommunications equipment (SIC 322) in 1995-2007

Year	Number of employees	Change, %	Value of gross output	
			EUR million	Change, %
1995	17 338		4 184,6	
1996	19 191	10,7	4 816,3	15,1
1997	21 609	12,6	6 528,7	35,6
1998	25 667	18,8	9 464,6	45,0
1999	28 835	12,3	12 925,9	36,6
2000	31 811	10,3	18 151,5	40,4
2001	32 138	1,2	16 351,0	-9,9
2002	29 860	-7,1	15 366,8	-6,0
2003	29 405	-1,5	13 582,5	-11,6
2004	29 922	1,8	14 136,3	4,1
2005	30 732	2,7	17 126,8	21,2
2006	30 304	-1,4	18 468,4	7,8
2007	30 543	0,8	20 224,4	9,5

Table 14. Import and export of telecommunications equipment in 1995-2008, EUR million

Year ¹	Import			Export		
	EUR million	change, %	per cent of total import	EUR million	change, %	per cent of total export
1995	235,8		1,1	1 998,0		6,7
1996	318,9	35,2	1,3	2 600,0	30,1	8,3
1997	387,6	21,5	1,4	3 528,4	35,7	9,9
1998	497,7	28,4	1,7	4 930,7	39,7	12,7
1999	568,3	14,2	1,9	5 558,5	12,7	14,2
2000	1 268,7	123,3	3,4	8 923,3	60,5	18,0
2001	1 183,4	-6,7	3,3	7 589,7	-14,9	15,9
2002	740,1	-37,5	2,1	7 575,6	-0,2	16,1
2003	759,4	2,6	2,1	7 172,6	-5,3	15,5
2004	871,5	14,8	2,2	6 203,1	-13,5	12,7
2005	1 743,8	100,1	3,7	8 518,2	37,3	16,3
2006	1 936,9	11,1	3,5	8 401,2	-1,4	13,7
2007	3 612,6	86,5	6,1	8 896,1	5,9	13,5
2008	3 882,2	7,5	6,2	8 737,4	-1,8	13,3

1) Source: Board of Customs

Figures

Figure 1. Numbers of fixed line and mobile telephone subscriptions in 1995-2008

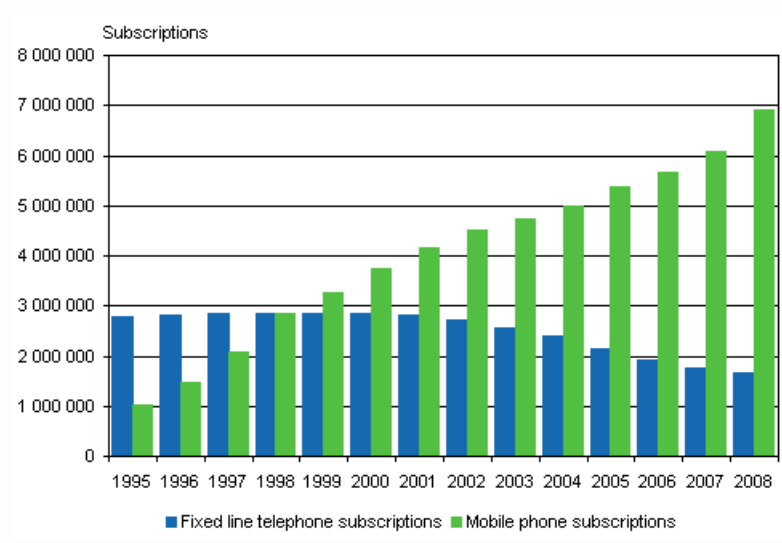


Figure 2. The distribution of calls from local telephone networks in 2003-2008, per cent

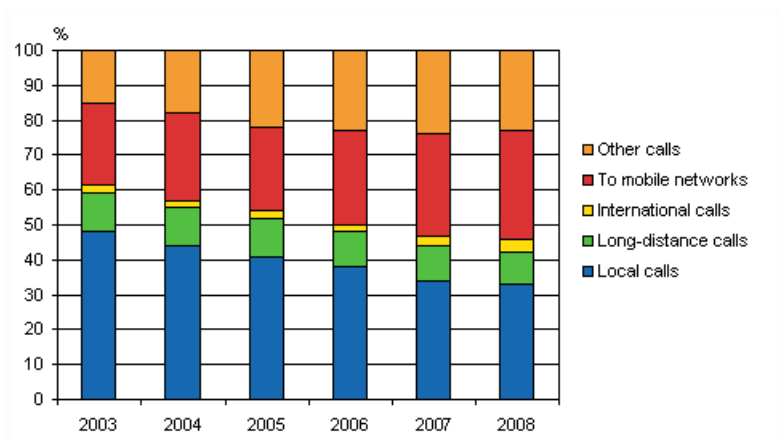


Figure 3. The distribution of call minutes from local telephone networks in 2003-2008, per cent

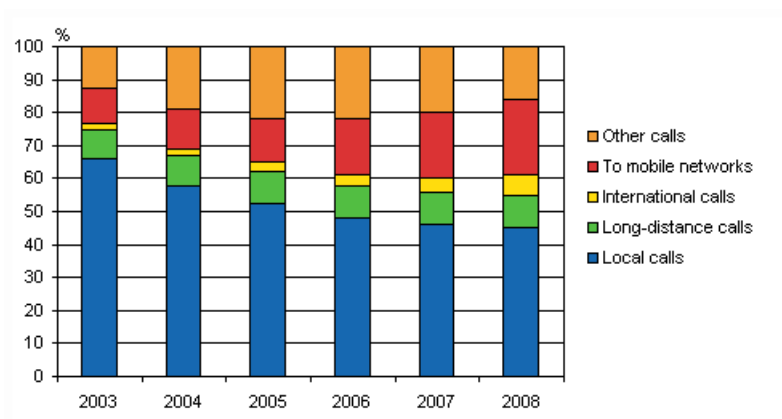


Figure 4. Numbers of outgoing calls from the local telephone network and from mobile phones in 1995-2008

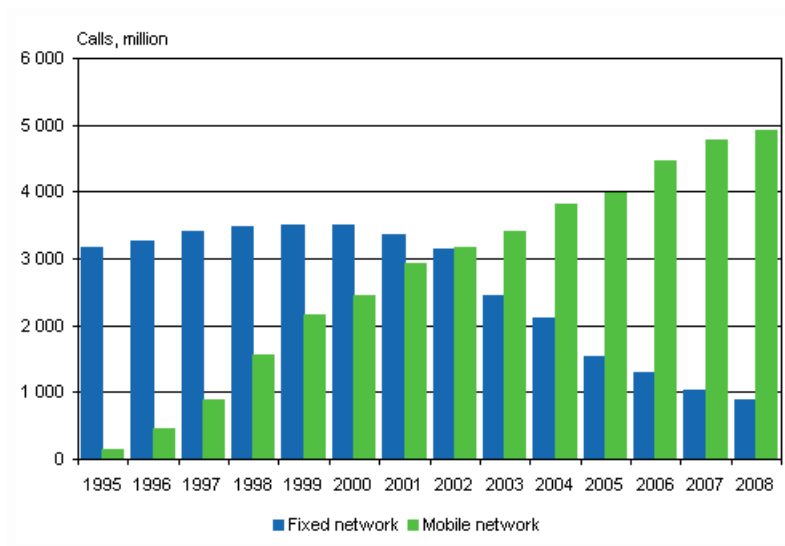


Figure 5. Numbers of outgoing call minutes from the local telephone network and from mobile phones in 1995-2008

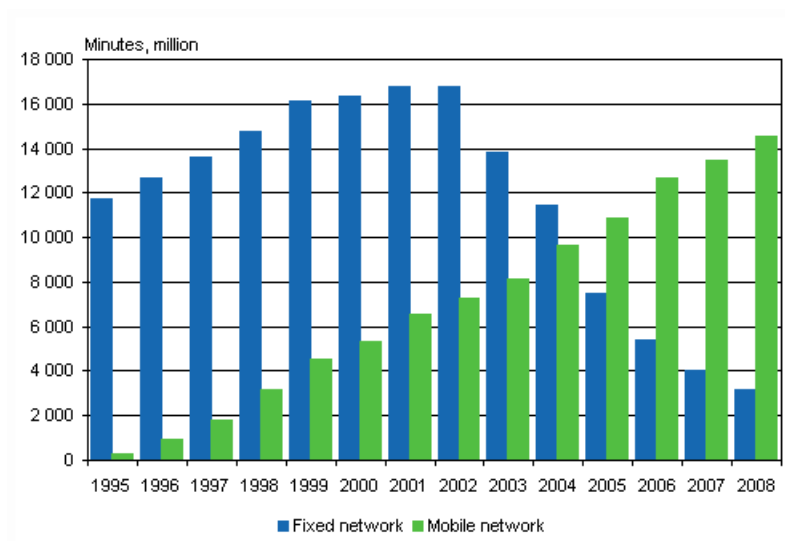


Figure 6. Numbers of outgoing calls from private (domestic) subscriptions and corporate subscriptions in 2008, per cent

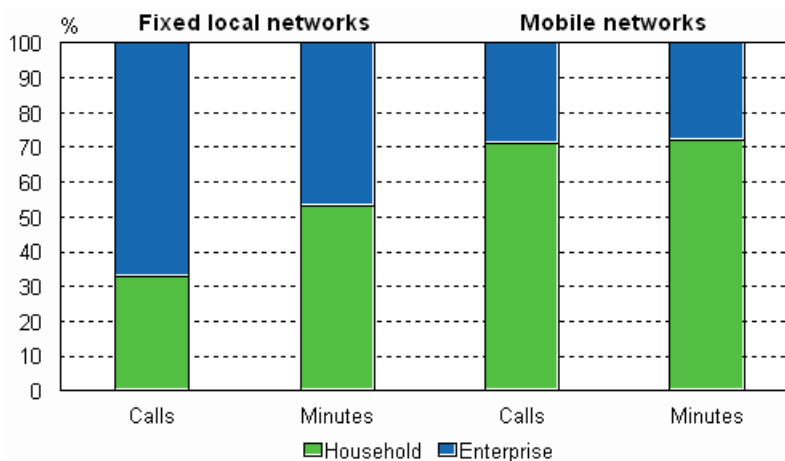


Figure 7. Numbers of outgoing calls from mobile phones in 2008, per cent

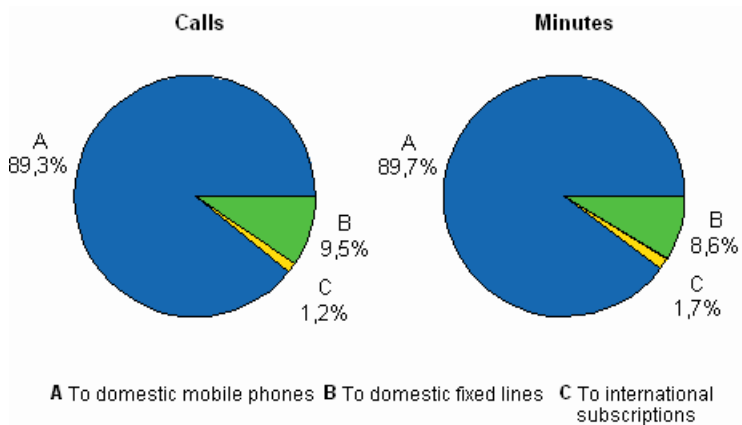


Figure 8. Numbers of outgoing short messages from mobile phones and short messages per subscription on average from mobile phones in 2002-2008

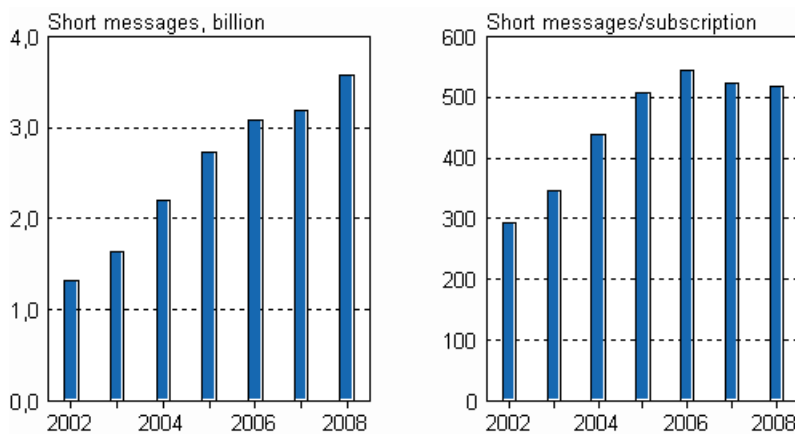
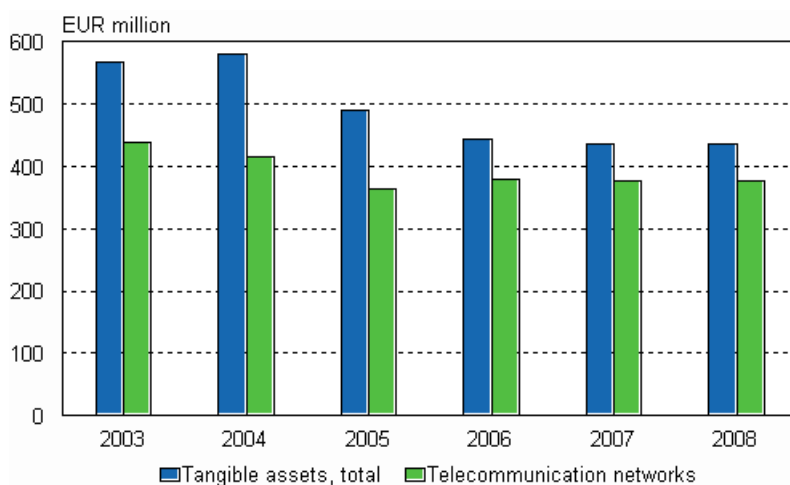


Figure 9. Investments of telecommunications operators in tangible assets and telecommunication networks in 2003-2008, EUR million



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