
Report on

Telecoms Price Developments

from 1998 to 2008

Produced for:

European Commission
Directorate General for Information Society

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Prepared in December 2008 by:

Teligen

Teligen, Strategy Analytics Ltd.
Watermans Park
Brentford, Middlesex TW8 0BB
United Kingdom

tel: +44 208 263 5442
e-mail: halvors@c2i.net

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APPENDICES:

The numbers behind the tables and graphs in this report are provided to the European Commission in 5 spreadsheets, where the presentational formats can be altered.

Important: These appendices are only available for use within the European Commission, and should not be distributed to other parties.

Appendix A: PSTN Basket results (INFSO-TB-Results-2008.XLS)

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Disclaimer: This report has been commissioned as an independent study to examine tariff developments in the European Community. The Commission does not accept any responsibility for the accuracy or completeness of the information contained herein.

The tariff information used in this study has in most cases been taken from the Teligen / OECD T-Basket spreadsheets and the Teligen T-World tariff database. The information is collected by Teligen from the individual operators, and is believed to be correct as of 15 September 2008. Key information has been checked with the National Regulatory Authorities. Teligen will not accept responsibility for any decisions made on the basis of information in this report.

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0. Introduction

0.1. Background

This report is produced for DG INFSO of the European Commission by Teligen. The objective has been to analyse the price developments over the last 11 years, as expressed in the OECD basket comparisons, and as found in prices of single calls. The study uses the OECD basket results in a slightly adapted form, in order to maintain consistency over the 11 years.

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This report shows the prices as of 1st August each year from 1998 to 2004 and as of 1st September from 2005 to 2007, and as of 15th September 2008. The prices are in most cases taken from the Teligen / OECD basket spreadsheets, as presented in the Teligen T-Basket product, and from the Teligen T-World tariff database. Teligen has collected tariff data from primary sources, i.e. directly from the telecoms operators, their websites and pricelists. Data were validated by the NRAs so as to reinforce the reliability of the information.

As past price data for the 10 countries that joined the European Union in May 2004 (EU10), and the two that joined in 2007 (EU2), is not readily available, the coverage for these countries vary a bit, but for most of them price data has been identified back to year 2000.

For PSTN and Mobile there is also price data for the main competing operator in each country. The selection of the operator was done on the basis of presence and size. There have been a few changes in the names of the operators over the years.

Not all years are covered in all sections, and the table below shows the coverage of the individual sections of the study:

Table 0.1 Study coverage

		Aug 1998	Aug 1999	Aug 2000	Aug 2001	Aug 2002	Aug 2003	Aug 2004	Sep 2005	Sep 2006	Sep 2007	Sep 2008
1	National Bus. PSTN Basket	√	√	√	√	√	√	√	√	√	√	√
2	National Res. PSTN Basket	√	√	√	√	√	√	√	√	√	√	√
3	Composite Bus. PSTN Basket			√	√	√	√	√	√	√	√	√
4	Composite Res. PSTN Basket			√	√	√	√	√	√	√	√	√
5	Internat. Bus. PSTN Basket	√	√	√	√	√	√	√	√	√	√	√
6	Internat. Res. PSTN Basket	√	√	√	√	√	√	√	√	√	√	√
7	Monthly rental for PSTN	√	√	√	√	√	√	√	√	√	√	√
8	National PSTN calls	√	√	√	√	√	√	√	√	√	√	√
9	International PSTN calls	√	√	√	√	√	√	√	√	√	√	√
10	Mobile Post-paid Basket					√	√	√	√	√	√	√
11	Mobile Pre-paid Basket											√
12	Mobile charging system											√
13	National Leased Lines	√	√	√	√	√	√	√	√	√	√	√

0.2. Exchange rates

The following table lists the exchange rates used in this report. All exchange rates refer to 2008, even for past years. This is done in order to reflect the actual price changes, not the changes in exchange rates. This does mean, however, that comparisons between countries will only be true for 2008, and other years may have minor discrepancies.

Table 0.2 Exchange rates, national currency to Euro

	Before 2002		From 2002		From 2007		From 2008	
	EURO	EURO PPP	EURO	EURO PPP	EURO	EURO PPP	EURO	EURO PPP
Austria	0.07267	0.07267	1	1.00000	1	1.00000	1	1.00000
Belgium	0.02479	0.02352	1	0.94877	1	0.94877	1	0.94877
Bulgaria	0.51114	1.11118	0.51114	1.11118	0.51114	1.11118	0.51114	1.11118
Cyprus	1.70853	1.94815	1.70853	1.94815	1.70853	1.94815	1	1.14025
Czech	0.04136	0.06607	0.04136	0.06607	0.04136	0.06607	0.04136	0.06607
Denmark	0.13429	0.09809	0.13429	0.09809	0.13429	0.09809	0.13429	0.09809
Estonia	0.06382	0.08951	0.06382	0.08951	0.06382	0.08951	0.06382	0.08951
Finland	0.16819	0.13854	1	0.82372	1	0.82372	1	0.82372
France	0.15245	0.14288	1	0.93721	1	0.93721	1	0.93721
Germany	0.51129	0.49544	1	0.96899	1	0.96899	1	0.96899
Greece	0.00293	0.00331	1	1.12867	1	1.12867	1	1.12867
Hungary	0.00385	0.00586	0.00385	0.00586	0.00385	0.00586	0.00385	0.00586
Ireland	1.26974	1.00773	1	0.79365	1	0.79365	1	0.79365
Italy	0.00052	0.00050	1	0.97182	1	0.97182	1	0.97182
Japan	0.00801	0.00734	0.00801	0.00734	0.00801	0.00734	0.00801	0.00734
Latvia	1.38870	2.13646	1.38870	2.13646	1.38870	2.13646	1.38870	2.13646
Lithuania	0.28598	0.47902	0.28598	0.47902	0.28598	0.47902	0.28598	0.47902
Luxembourg	0.02479	0.02359	1	0.95147	1	0.95147	1	0.95147
Malta	2.30097	3.14340	2.30097	3.14340	2.30097	3.14340	1	1.36612
Netherlands	0.45378	0.44014	1	0.96993	1	0.96993	1	0.96993
Poland	0.27906	0.44015	0.27906	0.44015	0.27906	0.44015	0.27906	0.44015
Portugal	0.00499	0.00590	1	1.18203	1	1.18203	1	1.18203
Romania	0.00003	0.00005	0.27252	0.42120	0.27252	0.42120	1	1.54560
Slovakia	0.03278	0.05203	0.03278	0.05203	0.03278	0.05203	0.03278	0.05203
Slovenia	0.00417	0.00543	0.00417	0.00543	1	1.30039	1	1.30039
Spain	0.00601	0.00646	1	1.07527	1	1.07527	1	1.07527
Sweden	0.10115	0.08690	0.10115	0.08690	0.10115	0.08690	0.10115	0.08690
UK	1.26936	1.13033	1.26936	1.13033	1.26936	1.13033	1.26936	1.13033
USA	0.78481	0.85678	0.78481	0.85678	0.78481	0.85678	0.78481	0.85678

Please note that Slovenia joined the Euro in 2007, and the most recent prices are based on the Euro currency. Also, Cyprus and Malta joined the Euro in 2008.

The prices for Romania are in fact also given in Euro.

PPP rates are taken from Eurostat website, where the latest available data refer to 2007.

0.3. Operators covered

For the PSTN data covered in this report there shall be two operators covered for each country: The Incumbent operator and the main Competitor. As determining the “main competitor” can be slightly difficult in many cases the following guidelines have been used:

- The “main competitor” shall be the largest non-incumbent nationwide provider of circuit switched telephony services (PSTN).
- Providers of IP based telephony services shall normally not be considered. However, in some cases there will not be any relevant competitors filling the above criteria, and in such cases providers of IP telephony may be used instead.

In this report the following PSTN operators have been covered for the year 2008. In some cases there has been a change of “second operator” from last year, and these are marked with an *.

Table 0.3: Providers of PSTN (Voice Telephony) services

	Dominant (incumbent)	Second largest	Competing service type
Belgium	Belgacom	Telenet	PSTN / IP
Bulgaria	BTC	Orbitel	IP
Czech Rep.	Telefonica O2	Radiokomunikace	PSTN / IP
Denmark	TDC	Tele2	PSTN
Germany	Deutsche Telekom	Arcor	PSTN
Estonia	Elion	Starman	IP
Greece	OTE	Tellas	PSTN
Spain	Telefonica	Ono	Cable
France	France Telecom	NeufCegetel	PSTN
Ireland	Eircom	BT Ireland	PSTN
Italy	Telecom Italia	Wind	PSTN
Cyprus	CYTA	CallSat	?
Latvia	Lattelekom	Telecom Baltija	PSTN / IP
Lithuania	TEO LT	Eurocom *	PSTN
Luxembourg	P&T Luxembourg	Tele2	PSTN
Hungary	Magyar Telekom	Tele2	PSTN
Malta	GO	---	---
Netherlands	KPN	Pretium	PSTN
Austria	Telekom Austria	Tele2UTA	PSTN
Poland	Polish Telecom	Tele2	PSTN
Portugal	Portugal Telecom	Sonaecom **	PSTN
Romania	RomTelecom	RCS&RDS	PSTN
Slovakia	Slovak Telecom	GTS Nextra	PSTN / IP
Slovenia	Telekom Slovenije	T-2	IP
Finland	TeliaSonera	Elisa	PSTN
Sweden	TeliaSonera	Tele2	PSTN
UK	BT	Virgin Media	PSTN / IP

* Operator has changed since last years update

** Novis was used earlier, but is part of the Sonaecom group

The report will in some cases also cover prices from main operators in Japan (NTT / KDDI) and USA (Verizon, NY; PacBell, CA and AT&T).

For Mobile services the operators covered will follow the selection made for the OECD Price Benchmarking Baskets, based on the two network operators with highest subscriber numbers.

For the Leased Line services covered in this report the Incumbent operators listed above are considered.

0.4. Tariff validation

After the initial collection of the main tariff data by Teligen the basic data for each country has been passed to the relevant National Regulatory Agencies (NRA) for validation. The NRAs have been asked to comment on the specific prices and also the more general selection of tariffs and operators.

The NRAs have kindly offered a lot of comments and corrections in order to enhance the quality of the data for this report. In a few cases the NRA have declined to comment on the data because of lack of insight into the operator's pricing.

The NRA comments have been incorporated into the tariff data, and in some cases resulted in specific comments in this report.

The draft report (this report) has also been reviewed by the NRAs before its publication.

1. Composite OECD baskets

Following the revision of the OECD baskets in May 2000 the so called “Composite baskets” were created. These were built along the same lines as the original baskets, in fact there are only minor differences. But the changes reflect the usage patterns of the time better, for example in that the Composite baskets combine fixed line national calls with calls to mobiles and international calls.

The definitions used by the Composite basket from 2000 are:

Fixed charges are included with the appropriate annual rental charge, and with the installation charge depreciated over 5 years.

Table 1.1a Number of calls per year, composite OECD PSTN basket (2000)

	OECD Composite basket		
	National calls	International calls	Calls to mobile
Business basket	3,600	216	360
Residential basket	1,200	72	120

Table 1.1b Distribution over time, composite OECD PSTN basket (2000)

	Business	Residential
We 11.00	45.4%	14.3%
We 15.00	40.6%	22.1%
We 20.00	7.0%	31.6%
We 03.00	0.8%	3.0%
Sa 11.00	5.7%	13.0%
Su 15.00	0.5%	16.0%

Table 1.1c Distribution over distance, composite OECD PSTN basket (2000)

km's -->	3	7	12	17	22	27	40
Business	53.0%	11.0%	7.0%	4.0%	2.5%	3.0%	3.5%
Residential	60.0%	14.0%	5.0%	3.0%	1.5%	2.5%	2.5%
km's -->	75	110	135	175	250	350	490
Business	3.5%	2.5%	2.0%	1.5%	1.5%	1.0%	4.0%
Residential	2.5%	1.5%	1.3%	1.0%	1.0%	0.8%	3.5%

Table 1.1d Call durations in minutes, composite OECD PSTN basket (2000)

Business	3-12 km	17-40 km	>40 km
We 11.00	3.5	3.5	3.5
We 15.00	3.5	3.5	3.5
We 20.00	3.5	3.5	3.5
We 03.00	3.5	3.5	3.5
Sa 11.00	3.5	3.5	3.5
Su 15.00	3.5	3.5	3.5
Residential	3-12 km	17-40 km	>40 km
We 11.00	2.5	3.5	3.5
We 15.00	2.5	3.5	3.5
We 20.00	3.5	6	7
We 03.00	3.5	6	7
Sa 11.00	3.5	6	7
Su 15.00	3.5	6	7

Data is presented for the incumbent operator in each country. Standard tariffs are used, excluding any discount packages. This means that lower costs can be achieved if the user selects another operator or another tariff package.

USA and Japan is included, with Nynex/Bell Atlantic/Verizon in New York and PacBell/SBC in California for USA and NTT for Japan. In the USA the prices vary a lot with the operator and locale chosen. Verizon may not be the cheapest, but has been used because it has been chosen by the OECD to represent USA, and provides the only consistent data available over time.

The tables below show the results from the OECD Composite basket, including both national fixed and mobile calls, and international calls.

1.1. Residential composite basket

Table 1.2 Residential composite OECD basket (2000 version)

	2000	2001	2002	2003	2004	2005	2006	2007	2008
Austria, Telekom Austria	46.61	47.37	37.39	37.39	37.55	34.33	34.68	34.05	34.55
Belgium, Belgacom	52.29	43.76	43.23	43.82	44.35	44.68	44.68	44.98	45.87
Bulgaria, BTC			29.02	29.02	29.04	30.21	30.27	28.76	24.85
Cyprus, CYTA	20.73	26.18	24.10	20.34	20.11	23.01	22.99	22.99	25.91
Czech, Telefonica O2	50.71	49.10	43.62	43.06	40.02	43.61	45.96	45.96	45.96
Denmark, Tele Danmark	43.00	39.75	39.20	38.79	38.78	38.78	38.56	39.26	39.65
Estonia, Elion	30.93	22.16	21.25	22.71	22.71	24.21	25.45	25.45	25.85
Finland, TeliaSonera	47.85	46.48	46.53	46.06	47.50	47.50	47.50	46.41	46.15
France, France Telecom	42.75	42.28	42.25	41.96	42.16	39.66	42.16	42.66	39.68
Germany, Deutsche Telekom	42.92	39.56	41.06	41.45	39.76	34.60	34.08	35.11	32.36
Greece, OTE	48.36	44.89	42.75	41.02	38.73	39.00	39.00	38.30	38.09
Hungary, Magyar Telekom	41.08	40.23	40.66	48.68	48.82	31.10	38.73	37.62	38.07
Ireland, Eircom	46.38	40.35	41.51	43.60	44.90	44.69	44.45	46.07	50.80
Italy, Telecom Italia	47.84	44.90	40.86	39.78	39.84	40.91	40.07	39.80	38.60
Japan, NTT	84.48	69.44	65.49	57.56	56.71	54.94	56.47	56.47	56.47
Latvia, Lattetekom	38.91	38.33	38.33	38.33	37.51	37.51	37.64	37.63	37.63
Lithuania, TEO LT	48.32	44.85	44.85	44.85	24.59	28.59	29.87	29.87	29.87
Luxembourg, P&T Luxembourg	35.11	33.26	33.21	33.21	33.21	33.03	33.03	33.03	33.03
Malta, Maltacom				41.22	35.64	33.46	35.51	35.51	35.08
Netherlands, KPN	35.16	35.25	36.93	38.39	38.59	38.02	37.53	36.16	37.87
Poland, Polish Telecom	62.32	60.47	62.32	61.41	54.64	43.81	47.19	47.19	52.35
Portugal, Telecom Portugal	48.26	48.20	48.77	47.63	45.60	42.18	42.20	42.07	35.68
Romania, RomTelecom					23.81	24.82	26.80	27.10	18.02
Slovakia, Slovak Telecom	44.95	40.45	47.29	47.29	45.23	42.36	40.04	40.02	40.13
Slovenia, Telekom Slovenije	25.21	25.01	31.45	33.40	34.10	31.15	28.40	30.66	29.24
Spain, Telefonica	45.99	41.06	40.03	36.51	37.09	37.08	41.36	41.36	43.78
Sweden, Telia	29.96	31.99	31.85	30.95	30.92	30.92	30.92	31.64	32.10
UK, BT	37.40	36.56	35.03	34.42	28.85	28.91	30.34	33.01	40.61
USA, PacBell, LA	31.47	25.65	30.42	35.02	34.74	31.43	30.92	27.73	34.08
USA, Verizon, NY	40.11	33.61	35.78	41.99	41.71	37.23	39.93	39.55	47.99
EU27 weighted average	44.65	42.43	41.64	41.21	38.81	36.57	37.78	38.26	38.37

All values in EURO per month, including VAT

The average is a weighted average across the 27 EU Member States, using population as weight.

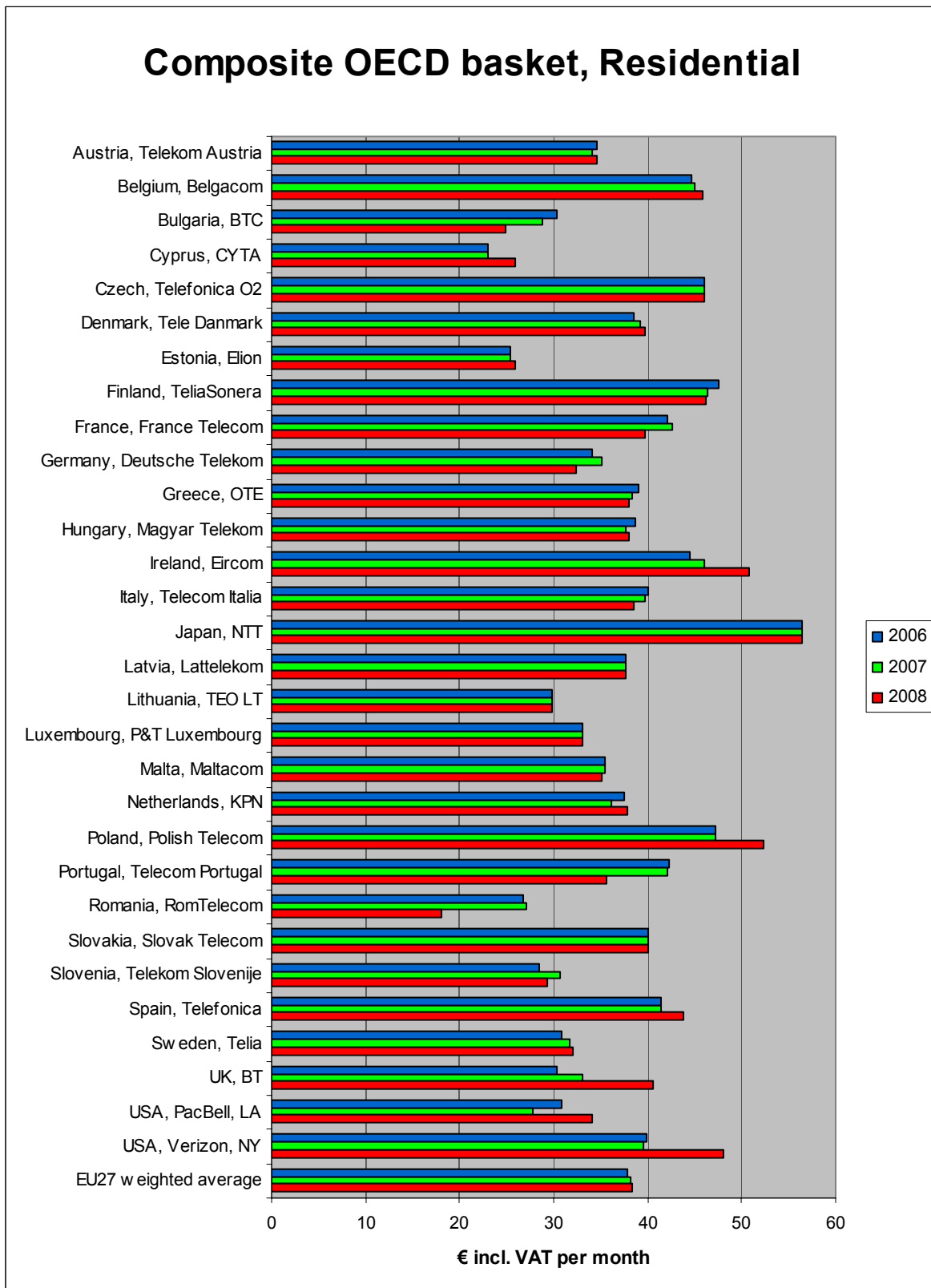
The basket includes both national and international calls.

For USA and Japan there are different operators for national and international calls, as there is a split market where different operators traditionally have been allowed into the two markets segments:

For USA Verizon, NY and SBC, CA are used together with AT&T, while for Japan NTT and KDDI are used.

An analysis of the detailed data behind the residential basket results shown here reveals that the average fixed / usage relationship in 2008 is 41% fixed and 59% usage, and has remained rather stable since 2005. In 2008 six of the EU12 countries have a fixed portion well below the average (<30%), while all of the EU15 countries are reasonably close to or above the average, several with fixed portion above 50%.

Figure 1.1 Residential composite OECD basket (2000 version)



1.2. Business composite basket

Table 1.3 Business composite OECD basket (2000 version)

	2000	2001	2002	2003	2004	2005	2006	2007	2008
Austria, Telekom Austria	99.78	96.04	100.26	99.40	99.53	71.99	74.80	73.38	74.48
Belgium, Belgacom	119.68	94.68	92.08	93.38	94.07	93.58	93.57	94.02	95.64
Bulgaria, BTC			59.08	59.08	58.71	64.87	66.71	64.56	63.87
Cyprus, CYTA	46.43	54.34	48.39	36.32	36.08	47.10	50.55	50.55	53.02
Czech, Telefonica O2	153.68	139.03	119.56	120.51	100.93	94.83	92.37	92.37	92.37
Denmark, Tele Danmark	82.51	74.25	71.40	69.98	69.96	69.96	69.17	68.30	67.61
Estonia, Elion	74.16	52.94	50.64	54.74	54.74	53.44	50.28	50.28	51.29
Finland, TeliaSonera	94.51	91.63	91.78	90.40	94.15	94.15	92.83	89.13	88.91
France, France Telecom	92.04	90.55	88.95	88.05	88.42	86.99	85.19	84.93	88.90
Germany, Deutsche Telekom	99.49	92.30	96.14	96.47	93.36	69.44	68.10	68.31	51.29
Greece, OTE	100.06	90.60	81.71	77.53	72.34	69.93	68.12	67.40	66.86
Hungary, Magyar Telekom	91.13	86.68	87.16	106.79	107.41	83.84	83.04	83.26	84.36
Ireland, Eircom	93.69	87.09	86.70	86.14	85.79	85.68	85.50	88.98	102.02
Italy, Telecom Italia	106.70	99.40	91.72	88.52	89.96	92.39	91.04	90.92	89.40
Japan, NTT	198.03	155.84	140.59	133.38	130.99	128.99	137.27	137.27	137.27
Latvia, Lattelekom	98.00	98.74	98.74	98.74	98.05	98.05	98.32	98.32	98.32
Lithuania, TEO LT	125.56	112.05	112.05	112.05	68.74	78.92	80.69	80.69	80.69
Luxembourg, P&T Luxembou	65.34	60.12	60.04	60.04	60.04	59.63	59.63	59.63	59.63
Malta, Maltacom				99.90	77.18	77.18	75.46	75.46	76.23
Netherlands, KPN	68.50	69.54	72.49	75.41	72.55	71.07	69.83	70.43	69.94
Poland, Polish Telecom	138.27	133.97	131.16	130.42	116.32	94.09	81.63	81.63	77.58
Portugal, Telecom Portugal	94.93	98.95	97.94	94.85	89.13	81.13	84.09	83.64	83.23
Romania, RomTelecom					63.67	63.14	61.35	61.60	56.46
Slovakia, Slovak Telecom	119.38	107.04	120.31	115.66	115.09	114.85	102.86	102.86	102.86
Slovenia, Telekom Slovenije	54.00	53.56	65.34	66.69	64.11	56.88	53.04	54.38	51.78
Spain, Telefonica	106.97	89.74	78.21	71.55	71.24	70.80	81.74	81.74	86.69
Sweden, Telia	62.04	62.07	61.23	60.12	60.05	60.05	60.05	61.44	62.55
UK, BT	100.62	99.86	100.23	100.12	98.95	96.68	97.25	121.89	144.46
USA, PacBell, LA	58.67	54.97	57.68	56.75	57.43	45.77	44.49	45.78	54.51
USA, Verizon, NY	79.49	74.12	75.48	75.03	75.68	66.00	62.80	64.02	64.94
EU27 weighted average	102.23	96.17	93.38	92.52	88.70	81.56	80.86	83.86	84.20

All values in EURO per month, excluding VAT

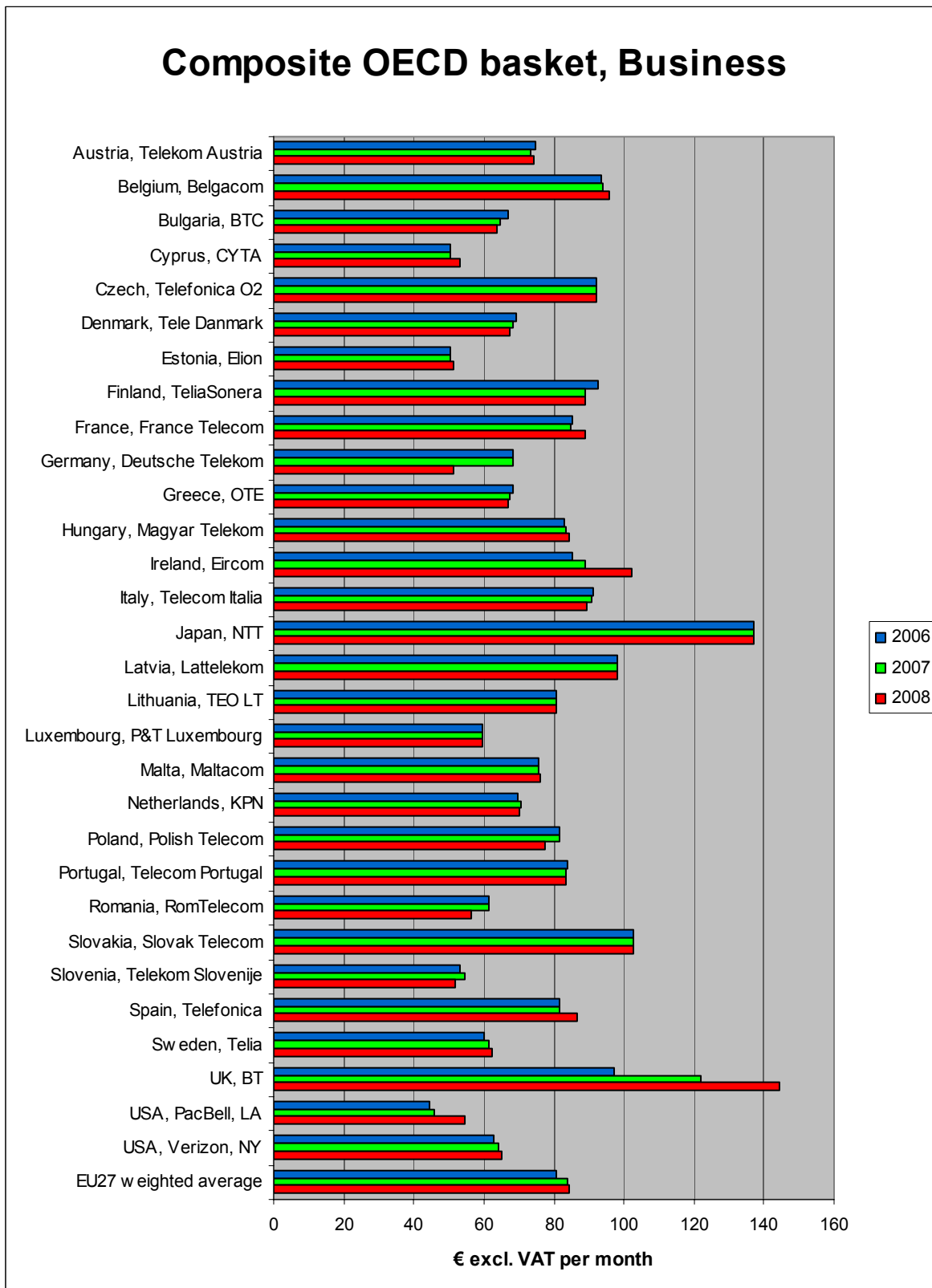
The average is a weighted average across the 27 EU Member States, using population as weight.

The basket includes both national and international calls.

For USA and Japan there are different operators for national and international calls, as there is a split market where different operators traditionally have been allowed into the two markets segments:

For USA Verizon, NY and SBC, CA are used together with AT&T, while for Japan NTT and KDDI are used.

Figure 1.2 Business composite OECD basket (2000 version)



1.3. Cheapest tariff packages

Another revision of the OECD baskets was implemented in February 2006. This revision brought a new element into the tariff data for the baskets, namely the inclusion of more tariff packages for each country.

With the introduction of a range of tariff packages in the OECD basket system it is now possible to see how the “Standard” or “Default” package compares with the cheapest package for a given usage profile. Please note that the selection of the cheapest package will depend on the usage profile, and that a user with another profile may have to select another package to get the most cost-efficient solution. Also, it is worth noting that for many users the “Standard” package may be the cheapest.

The tariff packages used in this analysis will represent the most common options available to a user in each country. There are most certainly other options that can be included, however some of these cannot be included¹, and others are clearly geared towards users outside the scope of the basket used (e.g. for very high usage).

The analysis below uses the same Composite basket (2000 version) as used in sections 1.1 and 1.2 above, but the tariff data from the new (2006) baskets. In figures 1.3 and 1.4 the total costs for the Standard package is compared with the equivalent costs for the cheapest package from the same operator. In many cases the standard package will also be the cheapest package. Some operators do not clearly publish a range of discount package options, and in such cases only the standard package is included.

Figures 1.5 and 1.6 compare the costs for the cheapest packages in 2007 and 2008, again using the Composite basket. A similar comparison is found in chapter 2 using the “new” 2006 version of the OECD baskets.

For the business results it is worth mentioning the somewhat strange result for the UK where prices appear to have increased significantly in 2008. This is a result of BT discontinuing the “Business Choice” and later the “Business Start up” series of packages and moving to case by case pricing outside the public domain.

Graphs appear on next page.

¹ Tariffs with “selective discounts”, i.e. discounts to selected numbers or destinations, cannot be included for methodological reasons.

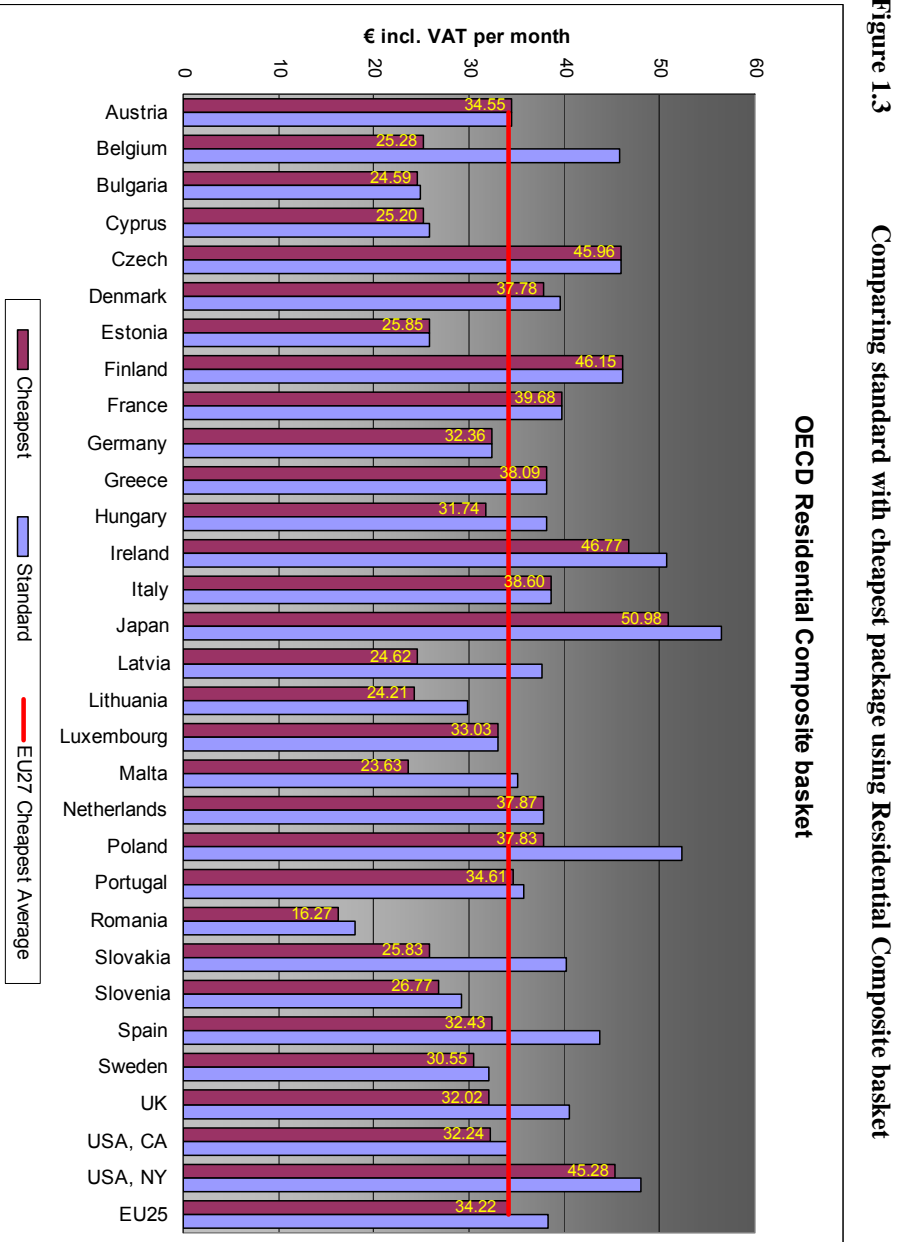


Figure 1.3

Comparing standard with cheapest package using Residential Composite basket

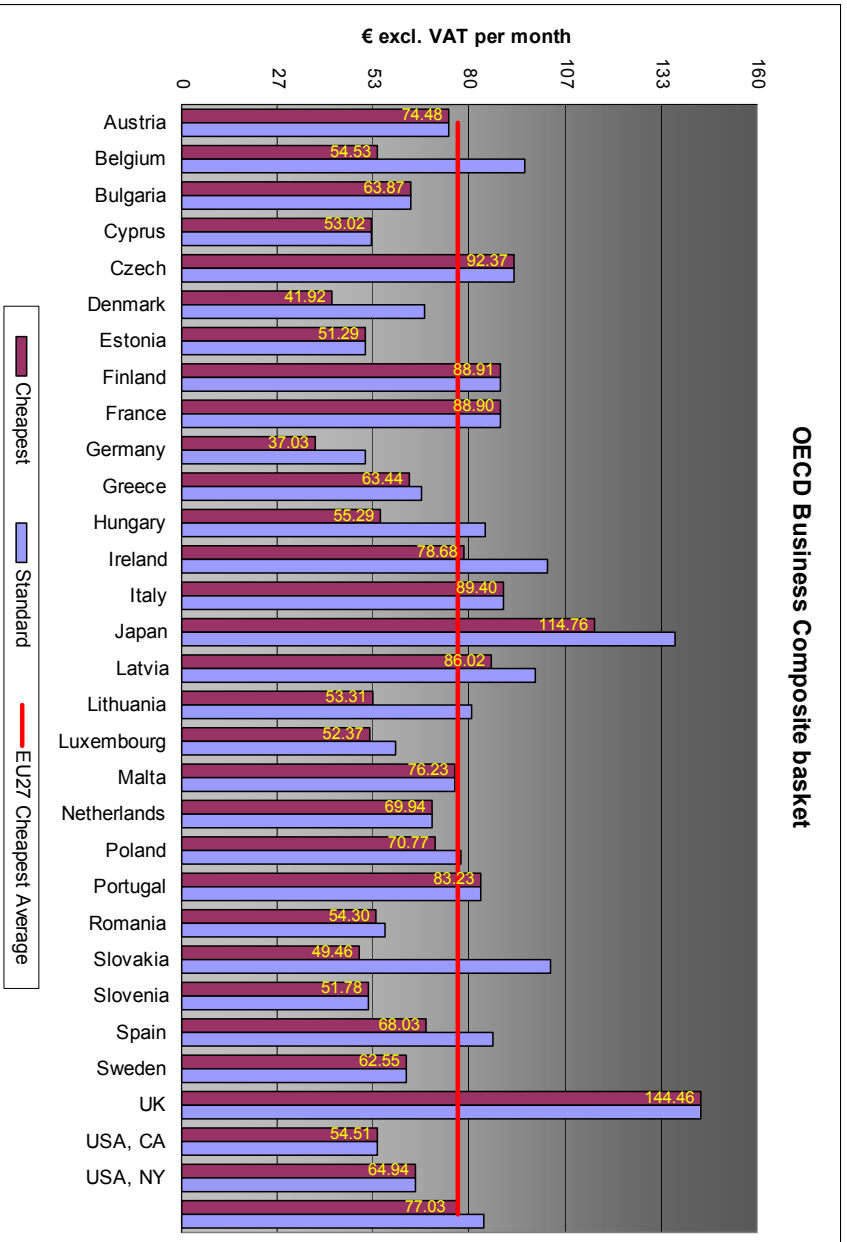


Figure 1.4

Comparing standard with cheapest package using Business Composite basket

Figure 1.5 Prices for cheapest package in 2007 and 2008 using Residential Composite basket

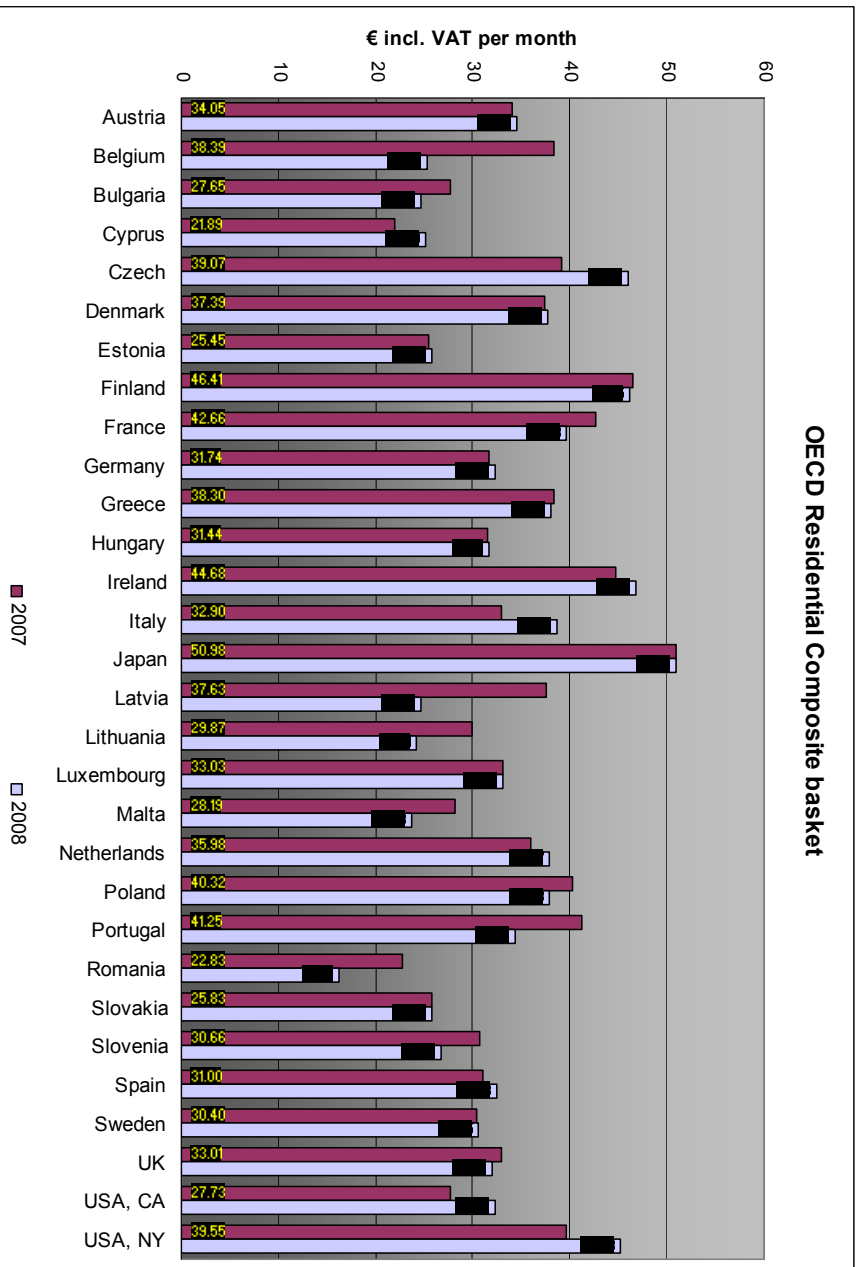
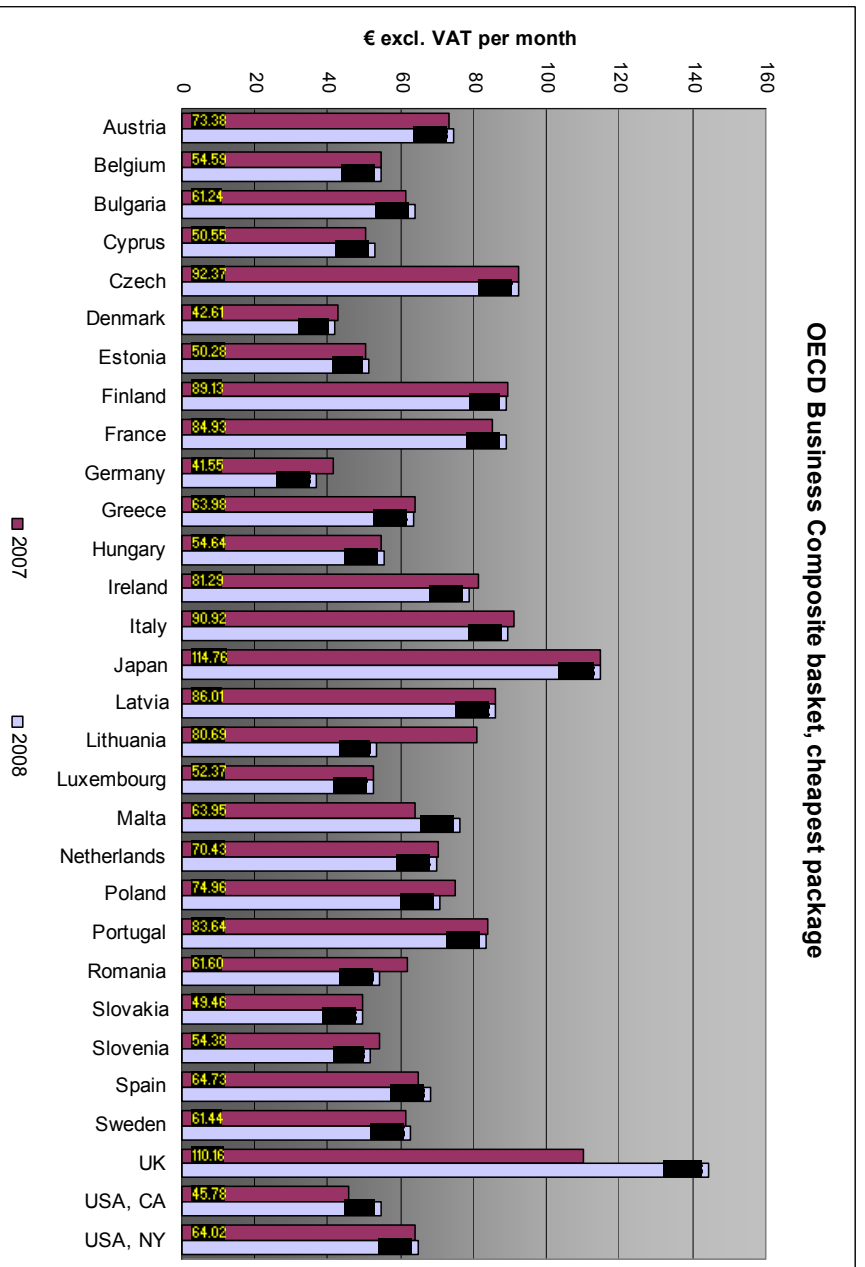


Figure 1.6 Prices for cheapest package in 2007 and 2008 using Business Composite basket



2. 2006 version of OECD baskets for PSTN

The OECD baskets were revised in 2005-2006 following a workshop in Rome in May 2005. The new baskets are, as before, based on traffic information received from a wide range of OECD countries, and a basket proposal was put to the OECD by Teligen in the autumn of 2005. They were adopted by the OECD in December 2005 and implemented by Teligen in the February 2006 T-Basket.

Highlights of the new baskets are:

- 5 new baskets for Low, Medium and High residential usage, and business baskets for SOHO and SME usage.
- Fixed to Mobile calls now include calls to up to 4 national mobile networks, weighted by subscriber numbers.
- A range of tariff packages from the incumbent operator are now included, with automatic selection of the cheapest package for each basket.
- Traffic weights and volumes have been updated with recent information.

The details of the 2006 version of the basket definitions are listed below:

Fixed charges are included with the appropriate annual rental charge, and with the installation charge depreciated over 5 years.

Table 2.1a Number of calls per year, 2006 version of OECD PSTN basket

Number of calls per year	National calls	Calls to mobile	International calls	Total calls
OECD Residential basket, Low Usage	456	114	30	600
OECD Residential basket, Medium Usage	900	276	24	1200
OECD Residential basket, High Usage	1560	744	96	2400
OECD Business basket, SOHO	1206	522	72	1800
OECD Business basket, SME	2016	560	224	2800

The SME basket shall also reflect 30 lines and users.

Table 2.1b Distribution over time, 2006 version of OECD PSTN basket

Fixed call distribution over time	We 11.00	We 15.00	We 20.00	We 03.00	Sa 11.00	Su 15.00
OECD Residential basket, Low Usage	30.2%	28.1%	23.6%	0.9%	8.2%	9.0%
OECD Residential basket, Medium Usage	27.5%	28.0%	23.0%	2.0%	8.0%	11.5%
OECD Residential basket, High Usage	30.0%	29.2%	23.8%	1.1%	7.3%	8.6%
OECD Business basket, SOHO	39.5%	39.3%	7.5%	3.6%	5.5%	4.6%
OECD Business basket, SME	40.2%	40.5%	6.5%	3.4%	4.7%	4.7%
Mobile call distribution over time	We 11.00	We 15.00	We 20.00	We 03.00	Sa 11.00	Su 15.00
OECD Residential basket, Low Usage	28.6%	28.6%	20.5%	0.6%	10.1%	11.6%
OECD Residential basket, Medium Usage	29.1%	30.5%	20.5%	0.7%	8.5%	10.7%
OECD Residential basket, High Usage	30.0%	30.4%	20.0%	0.6%	8.5%	10.5%
OECD Business basket, SOHO	39.5%	39.5%	4.5%	0.3%	9.0%	7.2%
OECD Business basket, SME	44.0%	42.0%	1.2%	0.1%	6.3%	6.4%

Table 2.1c Distribution over distance, 2006 version of OECD PSTN basket

Fixed call distribution over distance	3 km	7 km	12 km	17 km	22 km	27 km	40 km
OECD Residential basket, Low Usage	62.0%	14.5%	5.2%	3.1%	1.6%	2.1%	2.1%
OECD Residential basket, Medium Usage	56.7%	13.3%	4.7%	2.8%	1.4%	3.2%	3.2%
OECD Residential basket, High Usage	63.0%	14.7%	5.2%	3.1%	1.6%	1.9%	1.9%
OECD Business basket, SOHO	55.5%	13.0%	4.6%	2.9%	1.5%	3.3%	3.3%
OECD Business basket, SME	57.2%	13.4%	4.9%	3.0%	1.5%	3.0%	3.0%
Fixed call distribution over distance	75 km	110 km	135 km	175 km	250 km	350 km	490 km
OECD Residential basket, Low Usage	2.1%	1.2%	1.0%	0.8%	0.8%	0.6%	2.9%
OECD Residential basket, Medium Usage	3.2%	1.9%	1.6%	1.3%	1.3%	1.0%	4.4%
OECD Residential basket, High Usage	1.9%	1.1%	0.9%	0.7%	0.7%	0.6%	2.7%
OECD Business basket, SOHO	3.3%	2.0%	1.7%	1.4%	1.4%	1.1%	5.0%
OECD Business basket, SME	3.0%	1.8%	1.5%	1.2%	1.2%	0.9%	4.4%

Table 2.1d Call durations in minutes, 2006 version of OECD PSTN basket

Call durations 3-22 km	We 11.00	We 15.00	We 20.00	We 03.00	Sa 11.00	Su 15.00
OECD Residential basket, Low Usage	3.7	3.7	4.7	4.7	4.5	4.5
OECD Residential basket, Medium Usage	3.7	3.7	4.7	4.7	4.5	4.5
OECD Residential basket, High Usage	3.7	3.7	4.7	4.7	4.5	4.5
OECD Business basket, SOHO	1.9	1.9	2.1	2.1	2.3	2.3
OECD Business basket, SME	1.9	1.9	2.1	2.1	2.3	2.3
Call durations >22 km	We 11.00	We 15.00	We 20.00	We 03.00	Sa 11.00	Su 15.00
OECD Residential basket, Low Usage	4.4	4.4	7	7	6.6	6.6
OECD Residential basket, Medium Usage	4.4	4.4	7	7	6.6	6.6
OECD Residential basket, High Usage	4.4	4.4	7	7	6.6	6.6
OECD Business basket, SOHO	2.2	2.2	3	3	3.1	3.1
OECD Business basket, SME	2.2	2.2	3	3	3.1	3.1
Call durations to mobile	We 11.00	We 15.00	We 20.00	We 03.00	Sa 11.00	Su 15.00
OECD Business basket, SME	1.8	1.8	2.1	2.1	1.9	1.9
OECD Business basket, SME	1.8	1.8	2.1	2.1	1.9	1.9
OECD Business basket, SME	1.8	1.8	2.1	2.1	1.9	1.9
OECD Residential basket, Low Usage	1.6	1.6	1.7	1.7	1.7	1.7
OECD Residential basket, Medium Usage	1.6	1.6	1.7	1.7	1.7	1.7

Table 2.1e International calls, 2006 version of OECD PSTN basket

International calls	Distribution		Call duration (minutes)	
	Peak	Off-peak	Peak	Off-peak
OECD Residential basket, Low Usage	33%	67%	5.5	7.2
OECD Residential basket, Medium Usage	33%	67%	5.5	7.2
OECD Residential basket, High Usage	33%	67%	5.5	7.2
OECD Business basket, SOHO	80%	20%	2.9	3.9
OECD Business basket, SME	80%	20%	2.9	3.9

Given all these changes from the 2000 versions of the baskets it is not possible to recalculate the old tariff data used in the baskets before 2006 with the new baskets. A new timeline will have to start from 2006.

The original basket results are split up into up to nine different cost elements, but in this report only the total cost for each country will be shown. The different baskets may select different tariff packages as the cheapest, and the table below gives an overview of the packages used for each basket in 2008.

Please note that the OECD baskets will choose the cheapest package available to the customers at any given time, and the selection of packages may then change from one update to the next. Price changes indicated by the basket results may be a result of new or discontinued tariff packages rather than actual changes in price.

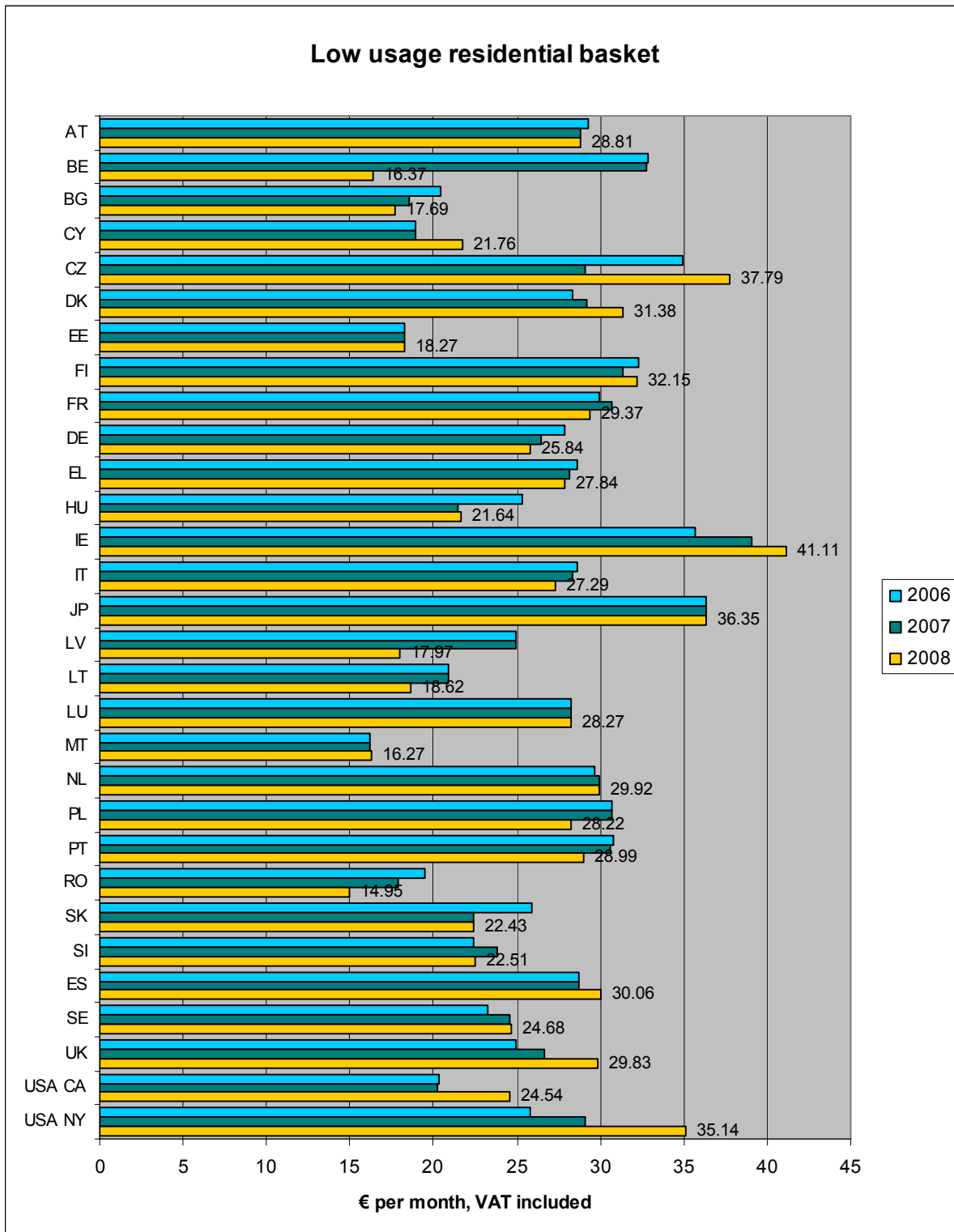
Table 2.1 Tariff packages for each basket in 2008

	Low usage residential basket	Medium usage residential basket	High usage residential basket	SOHO business basket	SME business basket
Austria	TikTak Privat	TikTak Privat	TikTak Privat	TikTak Office	TikTak Office
Belgium	Weekend Together	Weekend Together	Weekend Together	Weekend Together	Weekend Together
Bulgaria	At Home 150	At Home 150	At Home 150	Office 50	Office 85
Cyprus	Classic 2	Home	Home	Silver	Silver
Czech	O2 Volno	O2 Volno	O2 Volno	O2 Trend	O2 Trend
Denmark	Standard	Samtale Day	Samtale Day	Standard	Samtale Day
Estonia	Kodu	Kodu	Pluss	Ari	Ari
Finland	Standard	Standard	Standard	Standard	Standard
France	Principal	Principal	Principal	Professionnel Presence	Professionnel Presence
Germany	Call Basic	Call Basic	Call Comfort	Call Basic	Call Basic
Greece	Standard	Standard	OTE 480 Residential	Standard	OTEBusiness 500 LD
Hungary	Felezó	Felezó	Favorit	V8 Enterprise	Gratisz 500
Ireland	Talktime 200	Talktime Anytime	Talktime Anytime	Talktime Business 1	Talktime Business 1
Italy	Residential Standard	Residential Standard	Residential Standard	Business Standard	Business Standard
Japan	Residential Ichirittsu 1	Residential Ichirittsu 2	Residential Ichirittsu 2	Business Ichirittsu 2	Business Ichirittsu 2
Latvia	Aktivie tarifi	Aktivie tarifi	Aktivie tarifi	Biznesa tarifi	Biznesa tarifi
Lithuania	Local	Local	Local	Local	Local
Luxembourg	Standard	Standard	Standard	Standard	Standard
Malta	Classic	Talk Anytime	Talk Anytime	Business	Business
Netherlands	BelBasis	BelNaarMobiel 30	BelNaar Mobiel 60	BelBasis	BelBasis
Poland	Plan TP Startowy	Plan TP Startowy	Plan TP Startowy	Plan Sekundowy Uniwersalny TP Bi	Plan Sekundowy Uniwersalny TP Bi
Portugal	Plano Noites gratis	Total PT	Total PT	Business Standard	Business Standard
Romania	Voce Eve&WE	Voce Unlimited	Voce Total	Voce Business Mobile	Voce Business Mobile
Slovakia	Doma Maxi	Doma Extra	Doma Extra	Biznis Aktiv	Biznis Slovensko
Slovenia	Standard	Eve&Weekend	Eve&Weekend	Standard	Standard
Spain	Bono Metropolitano Reducido	Bono Metropolitano Reducido	Bono Metropolitano Reducido	Bono Metropolitano Reducido	Bono Metropolitano 24 Horas
Sweden	Kvall & helg	Kvall & helg	Dygnet runt	Företagsabonnemang	Företagsabonnemang
UK	Unlimited Anytime	Unlimited Anytime	Unlimited Anytime	Business Standard	Business Standard
USA CA	One Rate NW 10c Plan	One Rate 5c Plus Plan	One Rate 5c Plus Plan	One Rate National Plan	One Rate National Plan
USA NY	One Rate NW 10c Plan	One Rate 5c Plus Plan	One Rate 5c Plus Plan	All in one LD	All in one LD

All basket results below are shown in Euro per month, with VAT included for the residential baskets and excluded for the business baskets.

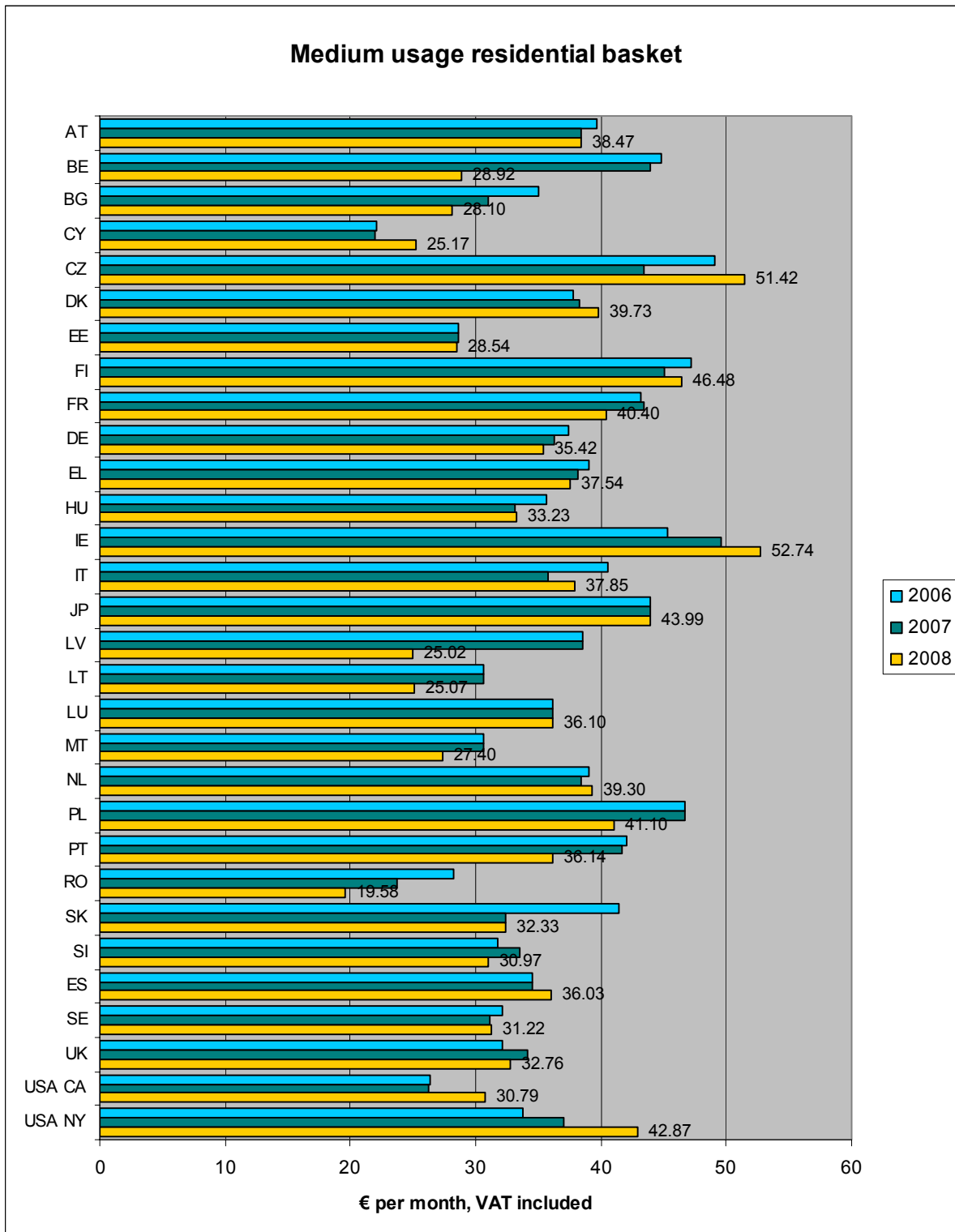
2.1. Low usage basket

Figure 2.1 Results for Low usage residential basket



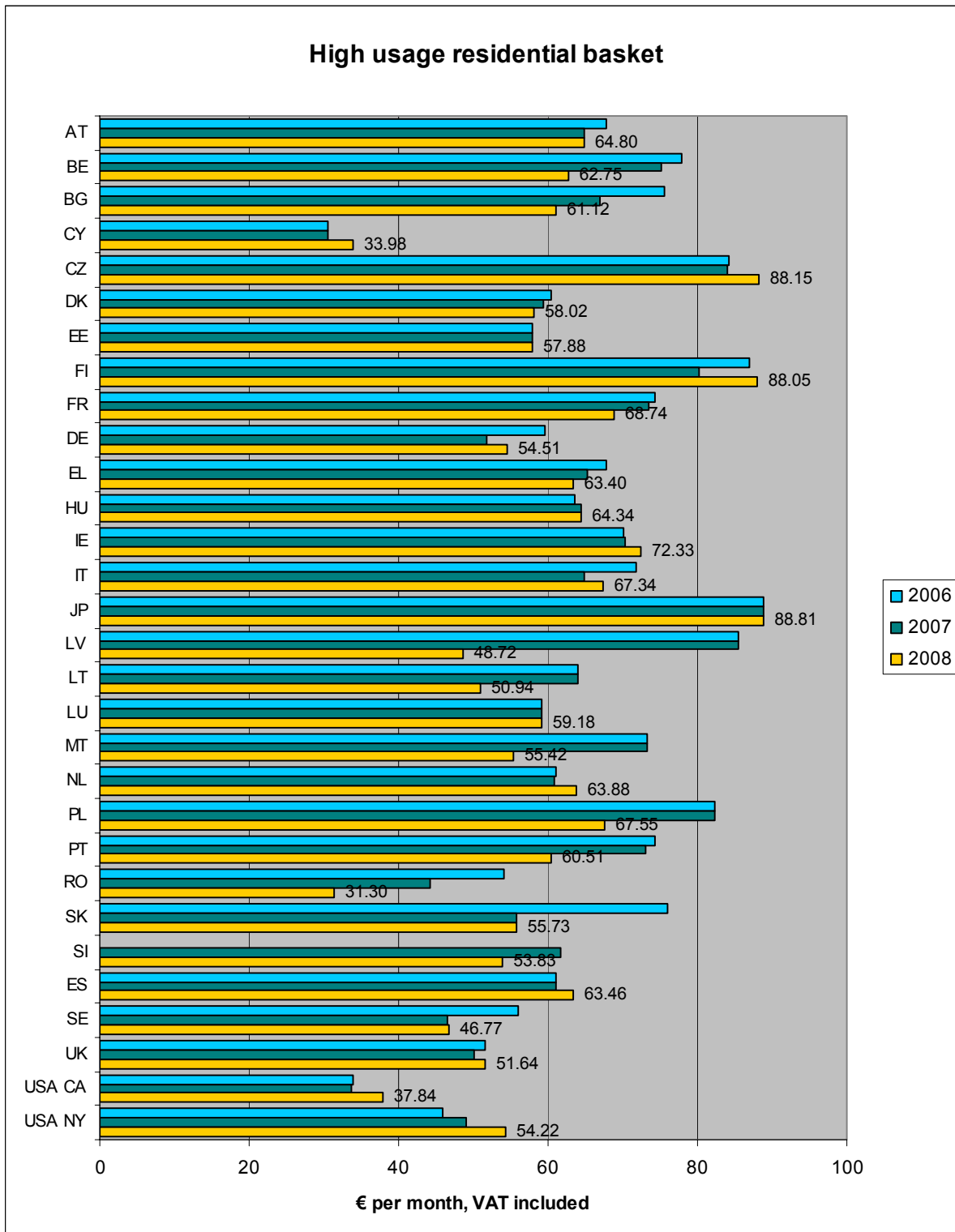
2.2. Medium usage basket

Figure 2.2 Results for Medium usage residential basket



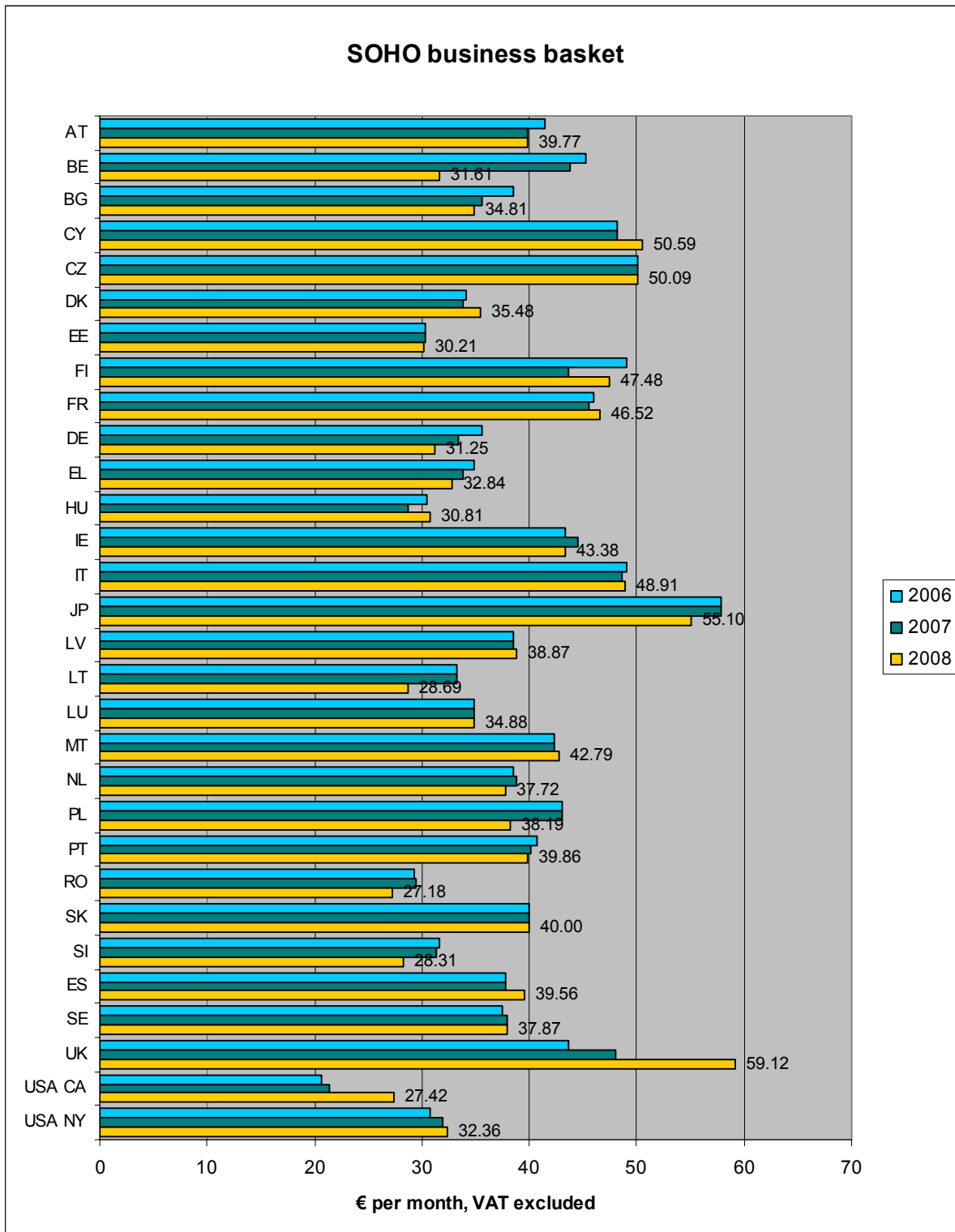
2.3. High usage basket

Figure 2.3 Results for High usage residential basket



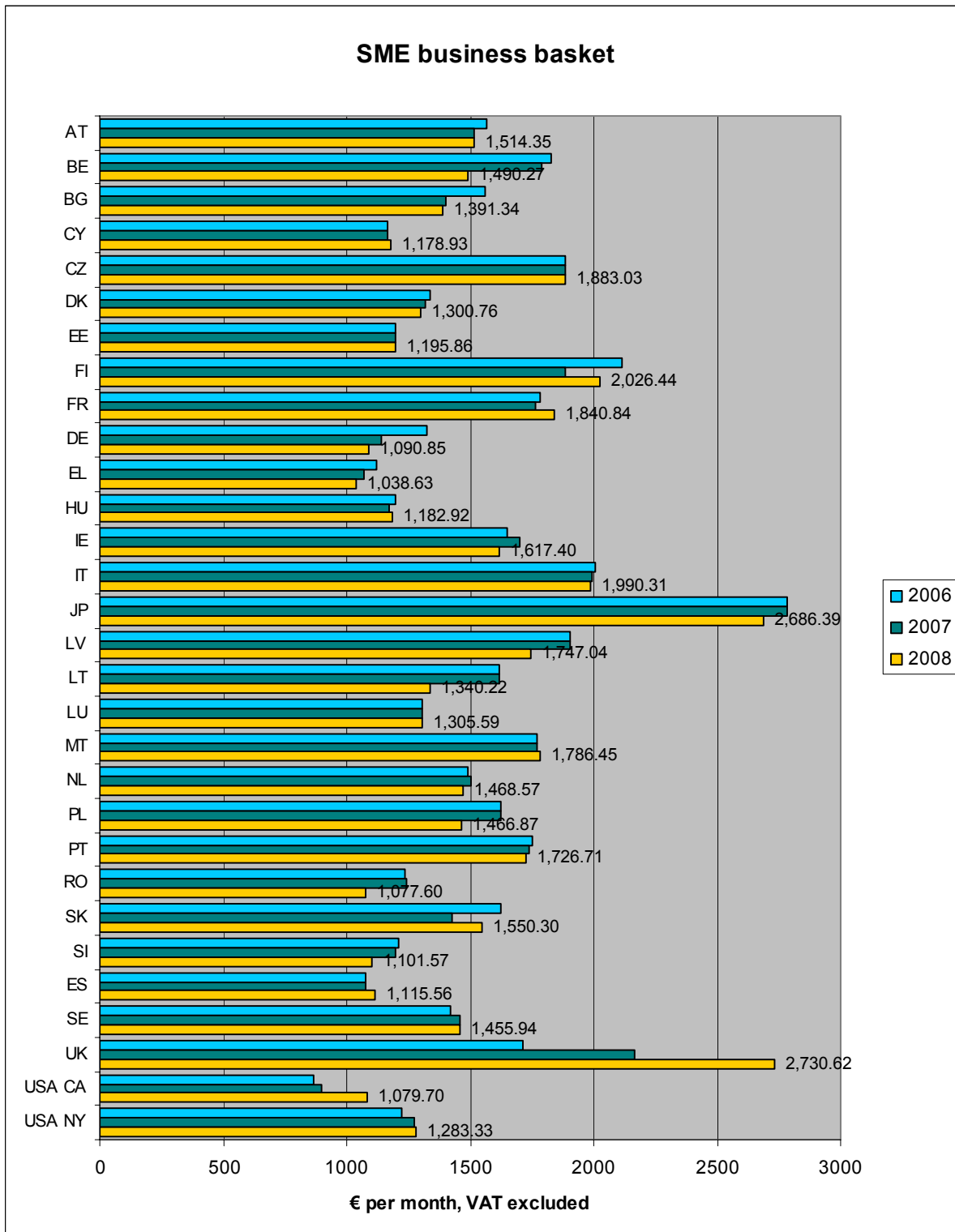
2.4. SOHO basket

Figure 2.4 Results for SOHO business basket



2.5. SME basket

Figure 2.5 Results for SME business basket



3. International PSTN Basket

For the basket comparison of only international PSTN call charges, the OECD Traffic weight basket methodology is used. The basket calculates **an average charge** for calls to all OECD destination countries. The charge is calculated as the average of:

	Call duration	Residential basket weight	Business basket weight
Peak time call	3 minutes	25%	75%
Off-peak time call	5 minutes	75%	25%

Traffic weighting is used, as per the basket revision in 2000. This method applies a weight to each destination based on the traffic volumes reported on that route.

The international baskets do not include any fixed (non-recurring or monthly) charges. Only the cost of calls are covered by the baskets.

All tariffs are standard prices from ex-incumbent operators, and both these operators and new entrants may offer lower prices.

On average the international call charges have gone down over the years, as figures 3.1 and 3.3 show.

In 2008 there is a significant reduction in the average residential call charges for international calls, and a slight reduction for the average business call charges. The following tables show the details for each country.

The graphs and tables below will present the data with these parameters:

- All charges in Euro per call
- Including VAT for the Residential basket
- Excluding VAT for the Business basket

3.1. Residential International PSTN Basket

The result from the Residential International PSTN basket, using the OECD Traffic weight methodology, is summarised in the table below.

Figure 3.1 EU27 weighted average for international residential call charges

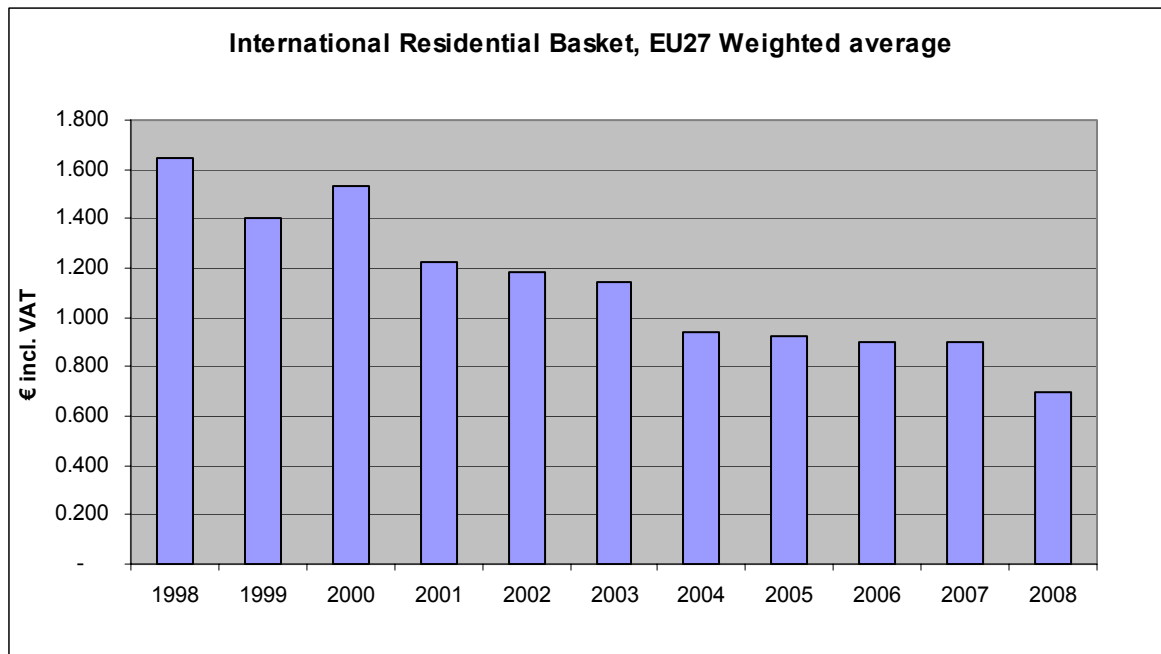


Table 3.1 International PSTN, Residential basket results

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Austria, Telekom Austria	1.70	1.60	1.34	1.30	0.99	0.99	0.99	0.61	0.61	0.60	0.61
Belgium, Belgacom	2.07	1.72	1.87	0.69	0.71	0.71	0.72	0.72	0.72	0.73	0.75
Bulgaria, BTC					1.96	1.96	1.11	0.84	0.84	0.84	0.85
Cyprus, CYTA			1.52	1.27	0.97	0.48	0.37	0.28	0.27	0.27	0.27
Czech, Telefonica O2			2.02	1.54	1.37	1.37	0.70	1.02	1.01	1.01	0.76
Denmark, Tele Danmark	1.43	1.24	1.39	0.92	0.92	0.86	0.86	0.86	0.86	0.85	0.85
Estonia, Elion			2.67	0.82	0.82	0.82	0.82	0.68	0.63	0.63	0.42
Finland, TeliaSonera	1.51	1.28	1.73	1.14	1.15	1.11	1.15	1.15	1.15	1.08	1.12
France, France Telecom	1.00	1.13	0.91	0.76	0.76	0.76	0.79	0.79	0.79	0.79	0.79
Germany, Deutsche Telekom	1.84	1.28	1.25	0.69	0.69	0.69	0.69	0.70	0.70	0.71	0.14
Greece, OTE	1.94	1.94	1.50	1.33	1.34	1.32	1.32	1.16	1.16	1.09	1.09
Hungary, Magyar Telekom			1.98	1.63	1.63	1.33	1.33	1.10	1.06	1.01	0.68
Ireland, Eircom	1.08	0.97	1.18	0.81	0.81	0.81	0.76	0.76	0.76	0.78	0.47
Italy, Telecom Italia	2.17	1.55	1.64	1.48	1.24	1.19	1.19	1.19	1.19	1.19	1.19
Japan, NTT	5.04	3.91	3.73	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79
Latvia, Lattelekom			2.01	2.09	2.09	2.09	2.09	2.09	2.11	2.11	0.78
Lithuania, TEO LT			3.79	2.14	2.14	2.14	1.22	1.22	1.43	1.43	1.43
Luxembourg, P&T Luxembourg	1.51	0.99	0.77	0.56	0.56	0.56	0.56	0.53	0.53	0.53	0.53
Malta, Maltacom						2.48	0.95	0.95	0.87	0.87	0.87
Netherlands, KPN	1.03	0.94	0.55	0.52	0.51	0.58	0.58	0.58	0.58	0.46	0.50
Poland, Polish Telecom			2.77	2.65	2.65	2.65	1.84	1.90	1.59	1.59	0.51
Portugal, Telecom Portugal	1.97	1.69	1.63	1.07	1.09	1.09	1.09	0.89	1.01	1.01	1.00
Romania, RomTelecom							1.09	0.97	0.97	0.97	0.34
Slovakia, Slovak Telecom			2.55	1.63	1.59	1.59	1.58	1.58	0.69	0.69	0.69
Slovenia, Telekom Slovenije			1.14	1.10	1.11	1.11	1.11	0.62	0.62	0.62	0.62
Spain, Telefonica	1.93	1.80	1.68	1.21	1.09	0.78	0.78	0.78	0.78	0.78	0.81
Sweden, Telia	1.04	1.04	0.57	0.57	0.57	0.49	0.48	0.48	0.48	0.60	0.43
UK, BT	1.45	1.45	1.61	1.55	1.55	1.55	0.68	0.70	0.75	0.78	0.92
USA, SBC, LA	3.26	0.86	0.73	0.77	0.78	0.60	0.38	0.39	0.39	0.39	0.37
USA, Verizon, NY	3.26	0.86	0.73	0.77	0.78	0.60	0.38	0.39	0.39	0.39	0.37
EU27 weighted average	1.64	1.41	1.53	1.22	1.19	1.14	0.94	0.92	0.90	0.90	0.70

Note:

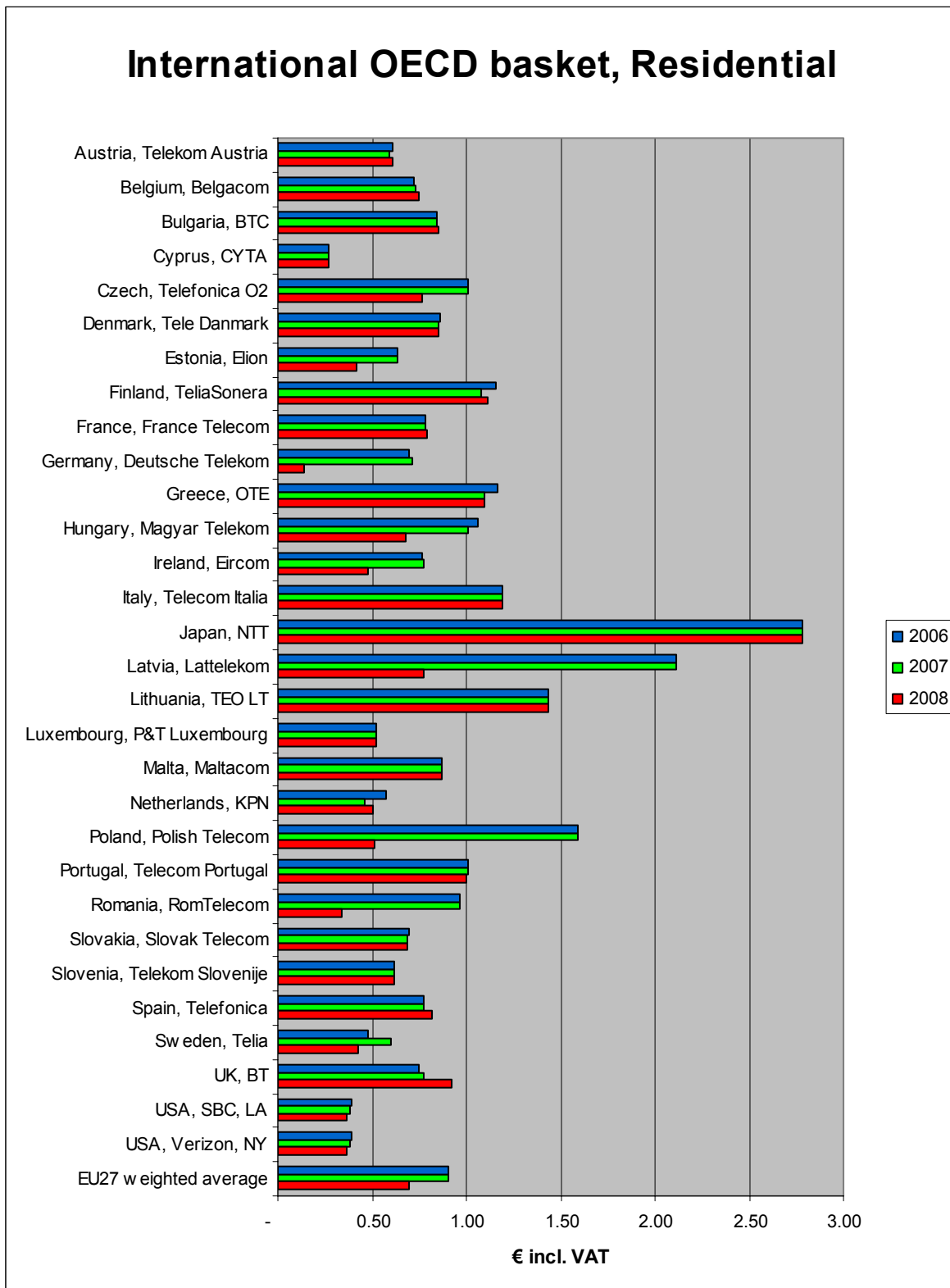
All charges in Euro, including VAT

The values are charges for one call, based on the OECD basket definition.

The OECD Traffic weight basket methodology is applied.

For USA is used AT&T, and for Japan is used KDDI.

Figure 3.2: International PSTN, Residential Basket results



3.2. Business International PSTN Basket

The result from the Business International PSTN basket, using the OECD Traffic weight methodology, is summarised in the table below.

Figure 3.3 EU27 weighted average for international business call charges

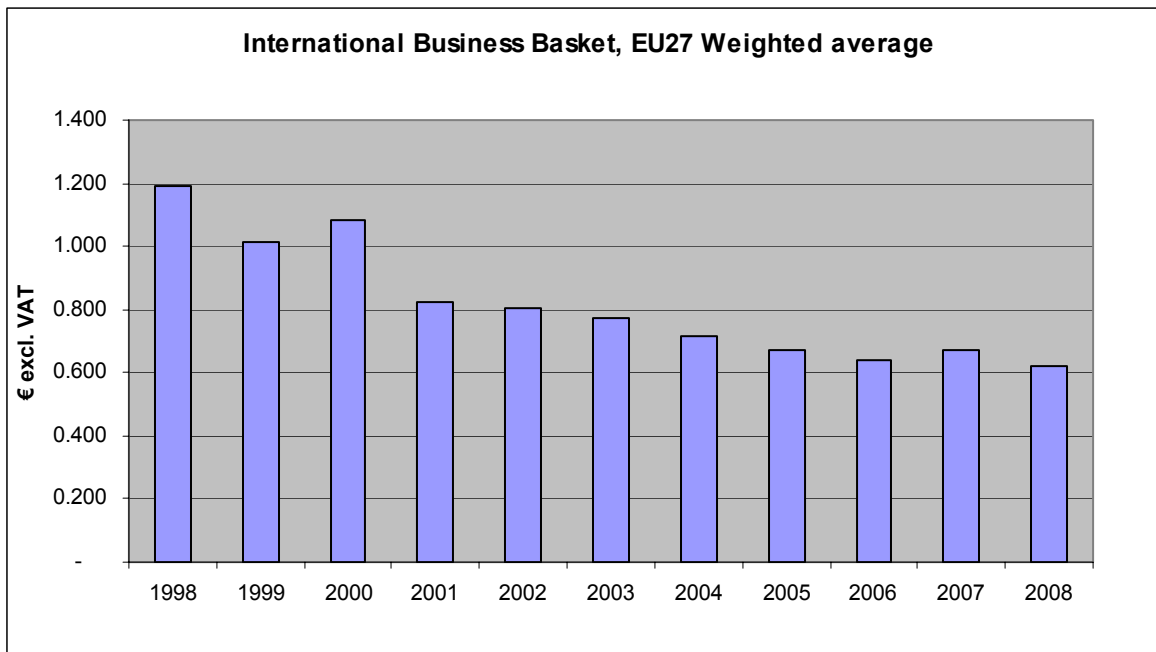


Table 3.2 International PSTN, Business basket results

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Austria, Telekom Austria	1.19	1.12	0.88	0.86	0.86	0.86	0.86	0.47	0.47	0.46	0.38
Belgium, Belgacom	1.40	1.29	1.37	0.58	0.60	0.60	0.61	0.61	0.61	0.62	0.63
Bulgaria, BTC					1.27	1.27	0.79	0.55	0.55	0.55	0.55
Cyprus, CYTA			1.11	0.95	0.72	0.32	0.25	0.19	0.19	0.19	0.19
Czech, Telefonica O2			1.90	1.18	0.99	0.99	0.46	0.48	0.46	0.46	0.46
Denmark, Tele Danmark	1.05	0.91	1.02	0.58	0.58	0.54	0.54	0.54	0.54	0.54	0.53
Estonia, Elion			2.02	0.54	0.54	0.54	0.54	0.45	0.42	0.42	0.42
Finland, TeliaSonera	1.11	0.97	1.32	0.89	0.90	0.88	0.91	0.91	0.91	0.84	0.87
France, France Telecom	0.72	0.81	0.71	0.39	0.39	0.39	0.43	0.43	0.43	0.43	0.43
Germany, Deutsche Telekom	1.33	0.88	0.87	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.09
Greece, OTE	1.45	1.45	1.00	0.88	0.88	0.87	0.87	0.76	0.76	0.71	0.71
Hungary, Magyar Telekom			1.24	1.02	1.02	0.83	0.83	0.69	0.65	0.66	0.40
Ireland, Eircom	0.79	0.70	0.87	0.58	0.58	0.58	0.53	0.53	0.53	0.57	0.37
Italy, Telecom Italia	1.60	1.15	1.12	1.02	0.86	0.83	0.83	0.83	0.83	0.83	0.83
Japan, NTT	4.63	3.48	3.36	2.53	2.53	2.53	2.53	2.53	2.53	2.53	2.53
Latvia, Lattelekom			1.58	1.64	1.64	1.64	1.64	1.64	1.66	1.66	1.14
Lithuania, TEO LT			2.97	1.68	1.68	1.68	0.95	0.95	1.11	1.11	1.11
Luxembourg, P&T Luxembourg	1.15	0.77	0.60	0.41	0.41	0.41	0.41	0.39	0.39	0.39	0.25
Malta, Maltacom						2.03	0.60	0.60	0.66	0.66	0.67
Netherlands, KPN	0.74	0.67	0.37	0.35	0.35	0.40	0.40	0.40	0.40	0.40	0.41
Poland, Polish Telecom			1.76	1.69	1.69	1.69	1.17	0.94	0.52	0.52	0.49
Portugal, Telecom Portugal	1.49	1.20	1.15	0.79	0.80	0.80	0.80	0.73	0.83	0.83	0.83
Romania, RomTelecom							0.79	0.71	0.64	0.64	0.36
Slovakia, Slovak Telecom			1.96	1.08	0.89	0.71	0.68	0.68	0.45	0.45	0.45
Slovenia, Telekom Slovenije			0.83	0.80	0.80	0.80	0.80	0.40	0.40	0.40	0.40
Spain, Telefonica	1.40	1.29	1.22	0.84	0.76	0.55	0.55	0.55	0.55	0.55	0.58
Sweden, Telia	0.74	0.74	0.36	0.36	0.36	0.31	0.31	0.31	0.31	0.39	0.39
UK, BT	1.06	1.06	1.18	1.13	1.13	1.13	1.13	1.13	1.13	1.39	1.66
USA, SBC, LA	2.73	0.61	0.44	0.41	0.45	0.43	0.43	0.42	0.44	0.43	0.40
USA, Verizon, NY	2.73	0.61	0.44	0.41	0.45	0.43	0.43	0.42	0.44	0.43	0.40
EU27 weighted average	1.19	1.01	1.08	0.83	0.80	0.77	0.71	0.67	0.64	0.67	0.62

Note:

All charges in Euro, excluding VAT

EU average is a weighted average across 27 EU Member States, using population as weight.

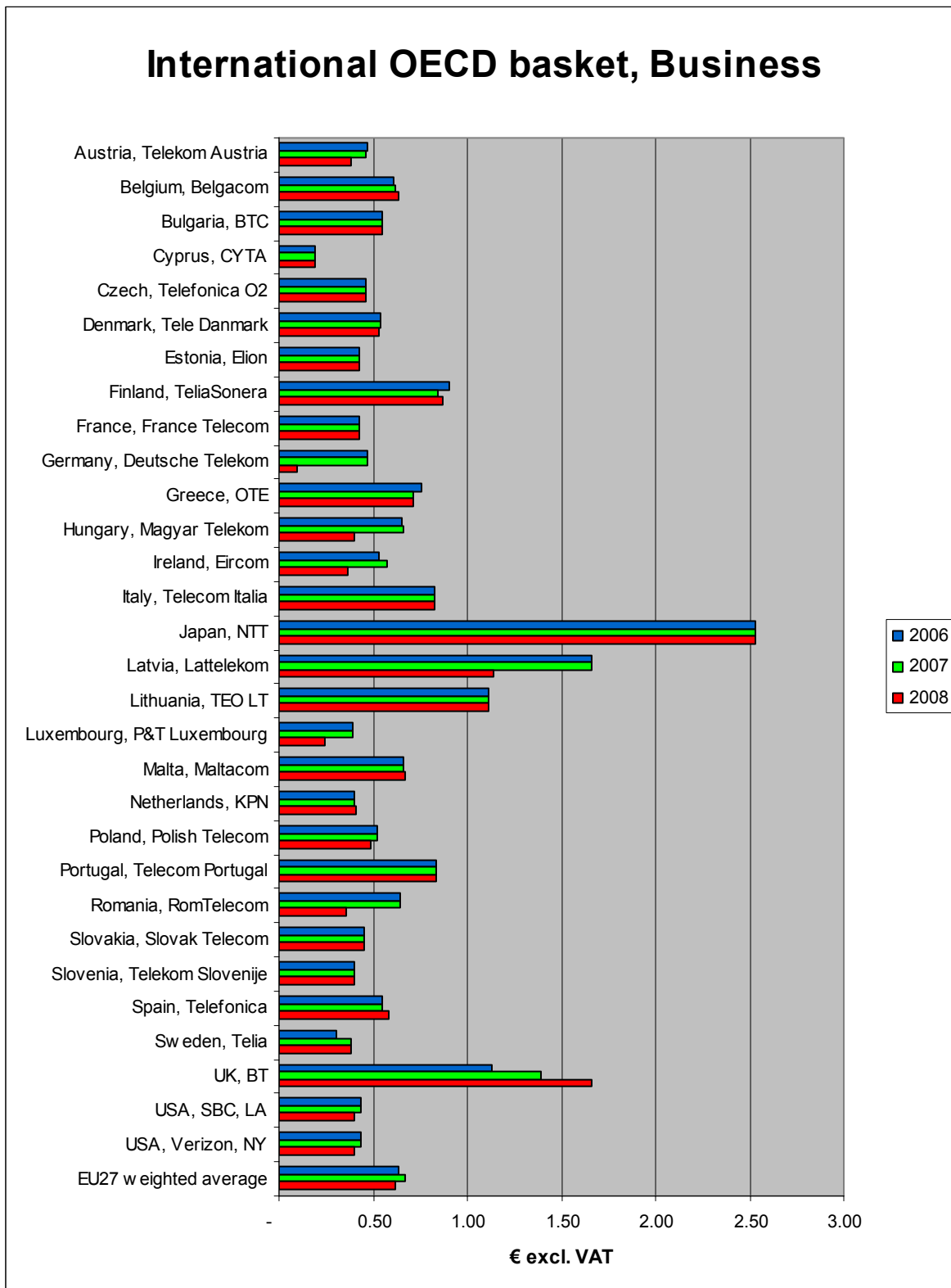
The values are charges for one call, based on the OECD basket definition.

The OECD Traffic weight basket methodology is applied.

For USA is used AT&T, and for Japan is used KDD.

The Business calls will appear cheaper than the residential calls, as the basket has a heavy weight towards peak calls, which are shorter (3 minutes) than off-peak calls (5 minutes).

Figure 3.4: International PSTN, Business Basket results



4. National PSTN calls

The objective here has been to study the development of the call charges actually paid by the consumer on individual calls. The numbers presented in this section do not give any indication of the overall price levels of PSTN services in a country, relative to another.

For those countries where unit based charging is used, the cost of the amount of full units is calculated. Any call set-up charges, minimum charges and/or call specific duration allowances have been taken into account.

3 distinct call durations are used: 3 minutes, 5 minutes and 10 minutes. 3 call distances are selected: 3 km (equivalent to a local call), 50 km and 200 km. In several countries the tariff will theoretically change at exactly one of these distances. In such cases the rates from the lower distance band is used.

The data is presented with the following parameters:

- Using EURO exchange rates
- Including VAT
- The years 1998 through to 2008 are covered where possible
- The default² residential package is selected. No discount packages are taken into account.
- Call charges refer to calls within the operator's own network.
- The US tariffs considered in this report are from Verizon, NY for local calls, Verizon, NY and AT&T (2000/2003) for national (intra-state) calls and AT&T for international calls.

Table 4.1 Call types

	3 minutes	5 minutes	10 minutes
3 km	√	√	√
50 km	√	√	√
200 km	√	√	√

Due to the large amount of data only the 10 minute duration at weekdays 11:00 (am) is presented in this report. Other durations will follow the same pattern, except for short distance, short duration calls where countries still using unit based charging will severely disadvantage the user.

Even attempting to show data for one duration graphically in a readable form is quite difficult, and an approach with individual country graphs has been chosen. The base data is displayed in tables 4.3 to 4.5.

Wherever unit based charging is used, the price of full units will be calculated. This leads to a situation where in some countries the price does not appear to change with call duration and/or distance, but this still reflects the actual prices paid by the consumer.

4.1. Call cost summaries

The following tables show the cost of 10 minute calls at peak time for incumbent operators and close competitors in the EU countries.

² The Default package is the tariff that a customer will get if no specific options are selected. With some operators the customer is required to select a package, and in such cases the most popular package is used, if such can be identified with the help of the NRA.

Table 4.2a 10 minute call charges for a 3 km call at weekdays 11:00, Incumbents

		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	Belgacom	0.495	0.495	0.495	0.544	0.544	0.561	0.572	0.572	0.572	0.583	0.601
Bulgaria	BTC			0.056	0.061	0.086	0.166	0.166	0.159	0.159	0.159	0.159
Czech	Telefónica			0.565	0.463	0.463	0.463	0.655	0.654	0.654	0.654	0.654
Denmark	TDC	0.447	0.406	0.406	0.410	0.369	0.369	0.369	0.369	0.369	0.366	0.366
Germany	Telekom	0.437	0.433	0.433	0.429	0.420	0.420	0.420	0.390	0.390	0.400	0.400
Estonia	Elion			0.136	0.249	0.249	0.249	0.249	0.248	0.249	0.248	0.248
Greece	OTE	0.180	0.208	0.312	0.364	0.307	0.307	0.307	0.309	0.309	0.309	0.309
Spain	Telefonica	0.315	0.315	0.279	0.284	0.284	0.284	0.284	0.284	0.186	0.234	0.240
France	Telecom	0.423	0.423	0.419	0.393	0.392	0.392	0.392	0.330	0.358	0.358	0.353
Ireland	Eircom	0.584	0.487	0.507	0.507	0.507	0.507	0.492	0.492	0.493	0.517	0.517
Italy	Telecom	0.236	0.236	0.252	0.252	0.252	0.252	0.252	0.222	0.222	0.222	0.222
Cyprus	CYTA			0.077	0.157	0.157	0.196	0.196	0.212	0.212	0.244	0.169
Latvia	Lattelekom			0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344	0.344
Lithuania	TEO LT			0.256	0.343	0.343	0.343	0.383	0.383	0.383	0.383	0.383
Luxembourg	P&T	0.372	0.372	0.372	0.310	0.309	0.309	0.309	0.309	0.309	0.309	0.309
Hungary	Magyar Telekom			0.375	0.375	0.375	0.443	0.443	0.443	0.425	0.425	0.385
Malta	Go						0.271	0.248	0.248	0.248	0.248	0.251
Netherlands	KPN	0.318	0.318	0.297	0.318	0.315	0.332	0.332	0.332	0.332	0.325	0.450
Austria	Telekom	0.802	0.802	0.691	0.691	0.560	0.560	0.490	0.490	0.490	0.490	0.490
Poland	Telecom			0.395	0.395	0.395	0.395	0.395	0.391	0.391	0.391	0.558
Portugal	Telecom	0.248	0.268	0.233	0.303	0.309	0.309	0.405	0.369	0.369	0.369	0.366
Romania	RomTelecom			0.228	0.368	0.331	0.331	0.345	0.345	0.321	0.321	0.225
Slovakia	Slovak Telecom			0.396	0.515	0.515	0.515	0.741	0.741	0.741	0.741	0.754
Slovenia	Telekom			0.171	0.171	0.263	0.263	0.263	0.263	0.263	0.288	0.288
Finland	TeliaSonera	0.209	0.209	0.219	0.227	0.227	0.227	0.244	0.244	0.244	0.278	0.385
Sweden	Telia	0.268	0.273	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
UK	BT	0.501	0.501	0.501	0.501	0.501	0.501	0.380	0.381	0.381	0.413	0.508
Simple average		0.3889	0.3831	0.3344	0.3560	0.3499	0.3551	0.3687	0.3630	0.3590	0.3666	0.3782
EU27 weighted		0.3869	0.3859	0.3712	0.3778	0.3719	0.3753	0.3674	0.3498	0.3431	0.3540	0.3790

Prices in Euro, including VAT

Table 4.2b 10 minute call charges for a 3 km call at weekdays 11:00, Competitors

		2002	2003	2004	2005	2006	2007	2008
Belgium	Telenet	0.2481	0.2481	0.4628	0.5720	0.5720	0.5830	0.6500
Bulgaria	Orbitel						0.3220	0.3220
Czech	České Radiokomunikace			0.5170	0.5170	0.5170	0.5170	0.5170
Denmark	Tele2	0.3290	0.3290	0.3290	0.3424	0.3559	0.3525	0.3525
Germany	Arcor	0.9200	0.4501	0.4500	0.4500	0.4500	0.4500	0.4500
Estonia	Starman		0.2285	0.2285	0.2285	0.2285	0.2668	0.2795
Greece	Tellas	0.2832	0.2832	0.2832	0.2856	0.2859	0.2860	0.2860
Spain	Ono	0.2734	0.2535	0.2535	0.2535	0.2784	0.3579	0.3579
France	NeufCegetel	0.2750	0.2750	0.2750	0.2350	0.2010	0.2100	0.2100
Ireland	BT	0.5451	0.4800	0.3800	0.3790	0.3790	0.3790	0.3790
Italy	Wind	0.2195	0.2195	0.2195				
Cyprus	CallSat			0.1670	0.1670	0.1670	0.1670	0.0720
Latvia	Telecom Baltija		2.2941	2.2941	0.6719	0.6882	0.1966	0.1966
Lithuania	Eurocom *			0.3832	0.3146	0.3146	0.3146	0.3861
Luxembourg	Tele2	0.2900	0.2898	0.2898	0.2800	0.2800	0.2800	0.2800
Hungary	Tele2		0.6160	0.6160	0.4197	0.3805	0.3805	0.3805
Malta								
Netherlands	Pretium	0.2890	0.2890	0.2900	0.2900	0.2900	0.2660	0.2860
Austria	Tele2	0.5600	0.5600	0.5520	0.4900	0.4900	0.4600	0.4600
Poland	Tele2	0.3949	0.3949	0.4085	0.3915	0.3915	0.3600	0.4186
Portugal	Novo Optimus	0.7100	0.7100	0.3560	0.3619	0.3691	0.3849	0.5000
Romania	RCS&RDS					0.1190	0.1190	0.1190
Slovakia	GTS Nextra				0.7334	0.7022	0.7015	0.7015
Slovenia	T-2					0.2212	0.1250	0.1250
Finland	Elisa	0.2400	0.2200	0.2200	0.2200	0.2200	0.2400	0.2400
Sweden	Tele2	0.2478	0.2478	0.2680	0.2680	0.2680	0.2620	0.2620
UK	Virgin	0.4430	0.4430	0.4443	0.4443	0.4443	0.4570	0.5966
Simple average		0.3918	0.4648	0.4403	0.3780	0.3589	0.3375	0.3531
EU27 weighted		0.4429	0.3661	0.3667	0.3697	0.3523	0.3559	0.3862

Prices in Euro, including VAT. Operators marked * have changed since last year.

For information about monthly rental see chapter 6.

Local calls are free with Wind, Italy

Table 4.3a 10 minute call charges for a 50 km call at weekdays 11:00, Incumbents

		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	Belgacom	1.737	1.737	1.737	0.544	0.544	0.561	0.572	0.572	0.572	0.583	0.601
Bulgaria	BTC			1.129	0.920	0.859	0.552	0.552	0.313	0.313	0.497	0.497
Czech	Telefónica			1.694	2.717	2.717	2.717	1.708	1.319	0.654	0.654	0.654
Denmark	TDC	0.661	0.635	0.541	0.410	0.369	0.369	0.369	0.369	0.369	0.366	0.366
Germany	Telekom	1.498	1.238	1.238	1.227	1.230	1.219	1.199	0.490	0.490	0.510	0.510
Estonia	Elion			0.708	0.249	0.249	0.249	0.249	0.248	0.249	0.248	0.248
Greece	OTE	2.116	1.558	1.402	0.364	0.307	0.767	0.732	0.738	0.738	0.738	0.738
Spain	Telefonica	1.536	1.150	1.042	0.959	0.609	0.542	0.542	0.542	0.542	0.562	0.577
France	Telecom	1.452	1.452	1.194	0.965	0.962	0.962	0.962	0.834	0.885	0.845	0.775
Ireland	Eircom	1.314	1.269	0.937	0.937	0.937	0.817	0.817	0.817	0.817	0.857	0.857
Italy	Telecom	2.164	1.692	1.724	1.442	1.225	1.225	1.148	1.148	1.148	1.148	1.148
Cyprus	CYTA			0.609	0.393	0.393	0.196	0.196	0.212	0.212	0.244	0.169
Latvia	Lattelekom			1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Lithuania	TEO LT			1.060	1.144	1.144	1.144	0.784	0.784	0.784	0.784	0.784
Luxembourg	P&T	0.372	0.372	0.372	0.310	0.309	0.309	0.309	0.309	0.309	0.309	0.309
Hungary	Magyar Telekom			0.664	0.664	0.664	0.882	0.882	0.882	0.846	0.846	0.400
Malta	Go						0.271	0.248	0.248	0.248	0.248	0.251
Netherlands	KPN	0.703	0.635	0.425	0.479	0.478	0.491	0.491	0.491	0.491	0.325	0.450
Austria	Telekom	0.802	0.802	0.691	0.691	0.670	0.670	0.490	0.490	0.490	0.490	0.490
Poland	Telecom			1.634	1.362	1.362	1.362	1.362	1.423	1.423	1.423	0.558
Portugal	Telecom	0.992	0.966	0.905	0.742	0.755	0.653	0.524	0.369	0.655	0.655	0.649
Romania	RomTelecom			1.370	1.228	1.104	1.104	0.714	0.643	0.595	0.595	0.225
Slovakia	Slovak Telecom			1.189	1.451	1.451	1.451	1.599	1.521	1.599	1.599	1.606
Slovenia	Telekom			0.171	0.171	0.263	0.263	0.263	0.263	0.263	0.288	0.288
Finland	TeliaSonera	0.839	0.864	0.871	0.876	0.876	0.876	0.900	0.940	0.940	0.954	0.954
Sweden	Telia	0.546	0.425	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
UK	BT	1.004	1.004	1.004	1.004	1.004	1.004	0.380	0.381	0.381	0.413	0.508
Simple average		1.1825	1.0534	0.9841	0.8664	0.8369	0.8124	0.7137	0.6527	0.6404	0.6466	0.5885
EU27 weighted		1.4356	1.2428	1.1982	1.0646	0.9997	0.9985	0.8635	0.7167	0.7129	0.7152	0.6323

Prices in Euro, including VAT

Table 4.3b 10 minute call charges for a 50 km call at weekdays 11:00, Competitors

		2002	2003	2004	2005	2006	2007	2008
Belgium	Telenet	0.2481	0.2481	0.4628	0.5720	0.5720	0.5830	0.6500
Bulgaria	Orbitel						0.3220	0.3220
Czech	České Radiokomunikace			0.7817	0.7817	0.5170	0.5170	0.5170
Denmark	Tele2	0.3290	0.3290	0.3290	0.3424	0.3559	0.3525	0.3525
Germany	Arcor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.4500
Estonia	Starman		0.2285	0.2285	0.2285	0.2285	0.2668	0.2795
Greece	Tellas	0.2832	0.5900	0.5900	0.5950	0.5950	0.6190	0.5240
Spain	Ono	0.8018	0.4562	0.5626	0.5200	0.4454	0.5421	0.5421
France	NeufCegetel	0.5183	0.5183	0.5183	0.2350	0.3900	0.4200	0.4200
Ireland	BT	0.9851	0.4800	0.3800	0.3790	0.3790	0.3790	0.3790
Italy	Wind	1.0495	1.0540	1.0540	0.1850	0.1850	0.1850	0.1850
Cyprus	CallSat			0.1670	0.1670	0.1670	0.1670	0.0720
Latvia	Telecom Baltija		2.2941	2.2941	0.9510	0.9674	0.1966	0.1966
Lithuania	Eurocom *			0.7836	0.6291	0.6291	0.6005	0.7350
Luxembourg	Tele2	0.2900	0.2898	0.2898	0.2800	0.2800	0.2800	0.2800
Hungary	Tele2		0.8181	0.8181	0.7084	0.6770	0.6770	0.6770
Malta								
Netherlands	Pretium	0.4290	0.4290	0.3890	0.3890	0.3890	0.3850	0.3950
Austria	Tele2	0.5600	0.5600	0.5520	0.4900	0.4900	0.4600	0.4600
Poland	Tele2	1.6342	1.6342	1.1235	1.2426	1.2426	1.3088	1.2278
Portugal	Novo Optimus	1.0650	1.0650	0.5106	0.5195	0.6547	0.6547	0.5000
Romania	RCS&RDS					0.1190	0.1190	0.1190
Slovakia	GTS Nextra				1.2873	1.0923	1.0916	1.0916
Slovenia	T-2					0.2212	0.1250	0.1250
Finland	Elisa	0.9200	0.9200	0.9200	0.9200	0.9200	0.9800	0.9838
Sweden	Tele2	0.2478	0.2478	0.2680	0.2680	0.2680	0.2620	0.2620
UK	Virgin	0.4430	0.4430	0.4443	0.4443	0.4443	0.4570	0.5966
Simple average		0.6702	0.7118	0.6540	0.5676	0.5260	0.4950	0.4747
EU27 weighted		0.7848	0.7598	0.7178	0.5667	0.5525	0.5643	0.4947

Prices in Euro, including VAT. Operators marked * have changed since last year.

For information about monthly rental see chapter 6.

Table 4.4a 10 minute call charges for a 200 km call at weekdays 11:00, Incumbents

		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	Belgacom	1.737	1.737	1.737	0.544	0.544	0.561	0.572	0.572	0.572	0.583	0.601
Bulgaria	BTC			1.411	1.472	1.288	1.104	1.104	0.681	0.681	0.497	0.497
Czech	Telefónica			1.694	2.853	2.853	2.717	1.708	1.319	0.654	0.654	0.654
Denmark	TDC	0.661	0.635	0.541	0.410	0.369	0.369	0.369	0.369	0.369	0.366	0.366
Germany	Telekom	2.933	1.857	1.238	1.227	1.230	1.219	1.199	0.490	0.490	0.510	0.510
Estonia	Elion			0.709	0.249	0.249	0.249	0.249	0.248	0.249	0.248	0.248
Greece	OTE	3.151	2.784	1.402	0.982	0.767	0.767	0.732	0.738	0.738	0.738	0.738
Spain	Telefonica	3.546	2.645	1.848	1.597	0.956	0.883	0.883	0.845	0.846	0.877	0.901
France	Telecom	1.747	1.526	1.194	0.965	0.962	0.962	0.962	0.834	0.885	0.845	0.775
Ireland	Eircom	2.043	1.269	0.937	0.937	0.937	0.817	0.817	0.817	0.817	0.857	0.857
Italy	Telecom	2.164	1.692	1.724	1.442	1.225	1.225	1.148	1.148	1.148	1.148	1.148
Cyprus	CYTA			0.609	0.393	0.393	0.196	0.196	0.212	0.212	0.244	0.169
Latvia	Lattelekom			1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Lithuania	TEO LT			1.060	1.184	1.184	1.144	0.784	0.784	0.784	0.784	0.784
Luxembourg	P&T						0.309	0.309				
Hungary	Magyar Telekom			1.328	1.328	1.328	1.170	1.170	1.170	1.124	1.124	0.400
Malta	Go						0.271	0.248				
Netherlands	KPN	0.703	0.635	0.425	0.479	0.478	0.491	0.491	0.491	0.491	0.325	0.450
Austria	Telekom	2.302	2.302	2.302	0.767	0.670	0.670	0.590	0.590	0.590	0.590	0.590
Poland	Telecom			1.634	1.362	1.362	1.362	1.362	1.423	1.423	1.423	0.558
Portugal	Telecom	2.530	2.148	1.284	1.126	1.146	0.959	0.649	0.655	0.655	0.655	0.649
Romania	RomTelecom			1.370	1.228	1.104	1.104	0.714	0.643	0.595	0.595	0.225
Slovakia	Slovak Telecom			1.903	1.451	1.451	1.451	1.599	1.521	1.599	1.599	1.606
Slovenia	Telekom			0.171	0.171	0.263	0.263	0.263	0.263	0.263	0.288	0.288
Finland	TeliaSonera	0.839	0.864	0.871	0.876	0.876	0.876	0.900	0.940	0.940	0.954	0.954
Sweden	Telia	0.546	0.425	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278	0.278
UK	BT	1.004	1.004	1.004	1.004	1.004	1.004	0.380	0.381	0.381	0.413	0.508
Simple average		1.8505	1.5373	1.1869	1.0130	0.9567	0.8675	0.7658	0.7364	0.7113	0.7037	0.6300
EU27 weighted		2.1263	1.6555	1.3283	1.1720	1.0739	1.0504	0.9132	0.7643	0.7544	0.7520	0.6641

Prices in Euro, including VAT

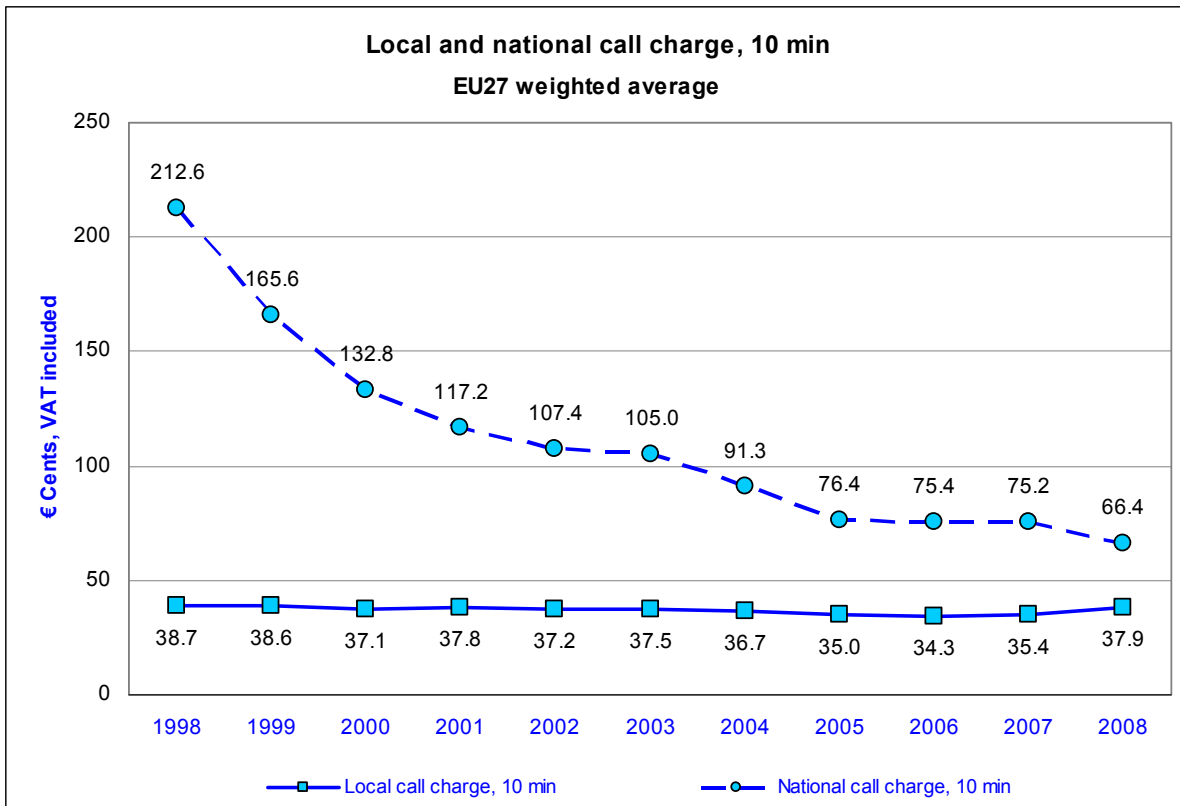
Table 4.4b 10 minute call charges for a 200 km call at weekdays 11:00, Competitors

		2002	2003	2004	2005	2006	2007	2008
Belgium	Telenet	0.2481	0.2481	0.4628	0.5720	0.5720	0.5830	0.6500
Bulgaria	Orbitel						0.3220	0.3220
Czech	České Radiokomunikace			0.7817	0.7817	0.5170	0.5170	0.5170
Denmark	Tele2	0.3290	0.3290	0.3290	0.3424	0.3559	0.3525	0.3525
Germany	Arcor	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200	0.9200
Estonia	Starman		0.2285	0.2285	0.2285	0.2285	0.2668	0.2795
Greece	Tellas	0.5900	0.5900	0.5900	0.5950	0.5950	0.6190	0.5240
Spain	Ono	1.4990	0.7323	0.8874	0.8448	0.7482	0.8448	0.8448
France	NeufCegetel	0.5183	0.5183	0.5183	0.2350	0.3900	0.4200	0.4200
Ireland	BT	0.9851	0.4800	0.3800	0.3790	0.3790	0.3790	0.3790
Italy	Wind	1.0495	1.0540	1.0540	0.1850	0.1850	0.1850	0.1850
Cyprus	CallSat			0.1670	0.1670	0.1670	0.1670	0.0720
Latvia	Telecom Baltija		2.2941	2.2941	0.9510	0.9674	0.1966	0.1966
Lithuania	Eurocom *			0.7836	0.6291	0.6291	0.6005	0.7350
Luxembourg	Tele2							
Hungary	Tele2		1.2417	1.2417	0.7084	0.6770	0.6770	0.6770
Malta								
Netherlands	Pretium	0.4290	0.4290	0.3890	0.3890	0.3890	0.3850	0.3950
Austria	Tele2	0.5600	0.5600	0.5520	0.4900	0.4900	0.5600	0.5600
Poland	Tele2	1.9065	1.9065	1.1235	1.2426	1.2426	1.3088	1.2278
Portugal	Novo Optimus	1.1880	1.1880	0.6315	0.6424	0.6547	0.6547	0.5000
Romania	RCS&RDS					0.1190	0.1190	0.1190
Slovakia	GTS Nextra				1.2873	1.0923	1.0916	1.0916
Slovenia	T-2					0.2212	0.1250	0.1250
Finland	Elisa	0.9200	0.9200	0.9200	0.9200	0.9200	0.9800	0.9838
Sweden	Tele2	0.2478	0.2478	0.2680	0.2680	0.2680	0.2620	0.2620
UK	Virgin	0.4430	0.4430	0.4443	0.4443	0.4443	0.4570	0.5966
Simple average		0.7889	0.7961	0.7127	0.6010	0.5488	0.5197	0.5174
EU27 weighted		0.8935	0.8241	0.7623	0.6016	0.5809	0.5938	0.6020

Prices in Euro, including VAT. Operators marked * have changed since last year.
For information about monthly rental see chapter 6.

The development of the EU27 weighted average over the period is shown in the graph below for local (3 km) and National (200 km) calls.

Figure 4.1 EU27 weighted average price for a local and a national 10 minute call



4.2. Individual country graphs

The following graphs show the price development of the incumbent operator in each country, for calls over 3, 50 and 200 km. For some graphs the lines will merge at some point(s). This may happen when for example there is a tariff structure change from separate local and national call prices to the same (local) price for the entire country (Belgium just below is a good example).

All graphs show prices as of 11:00 on a weekday.

Figure 4.2 10 minute call charges, Belgium

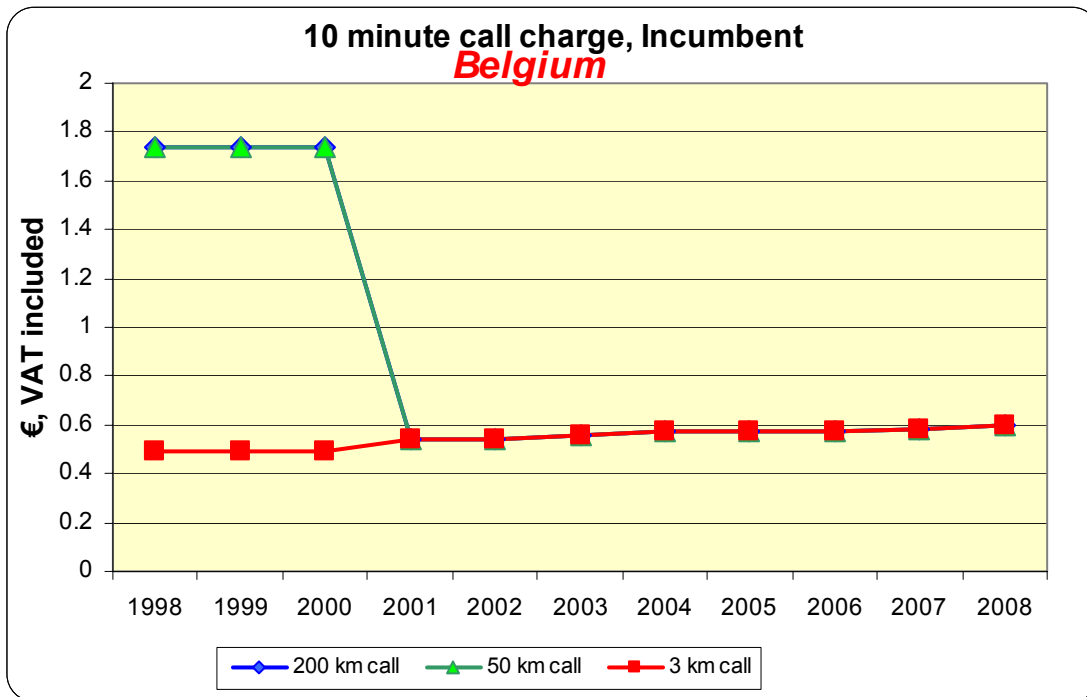


Figure 4.3 10 minute call charges, Bulgaria

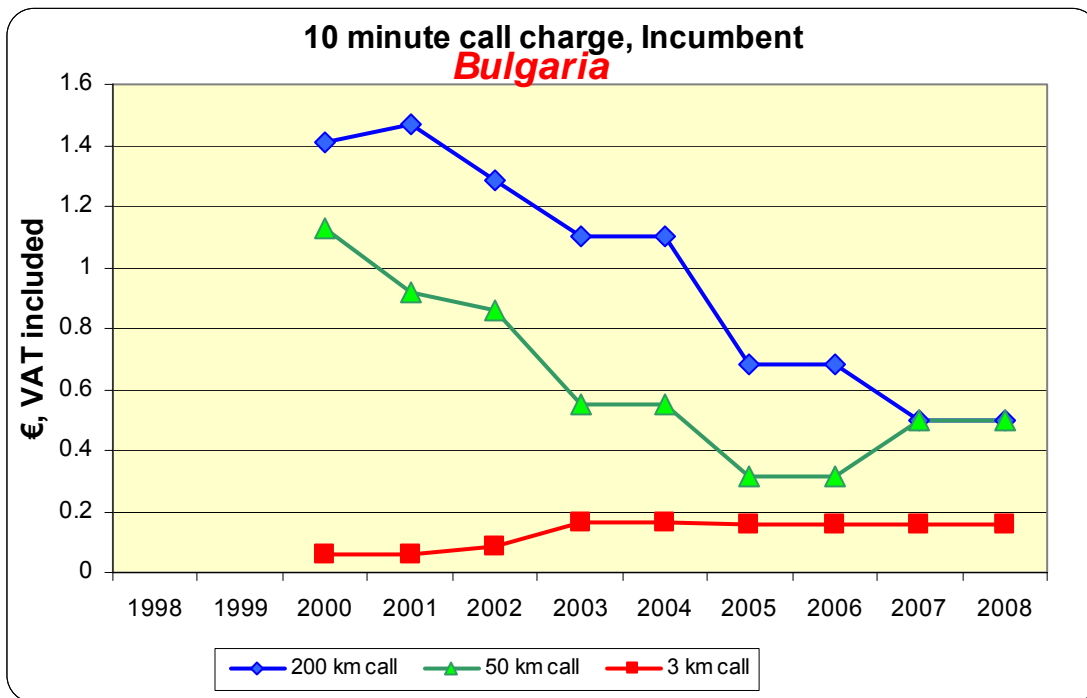


Figure 4.4 10 minute call charges, Czech Republic

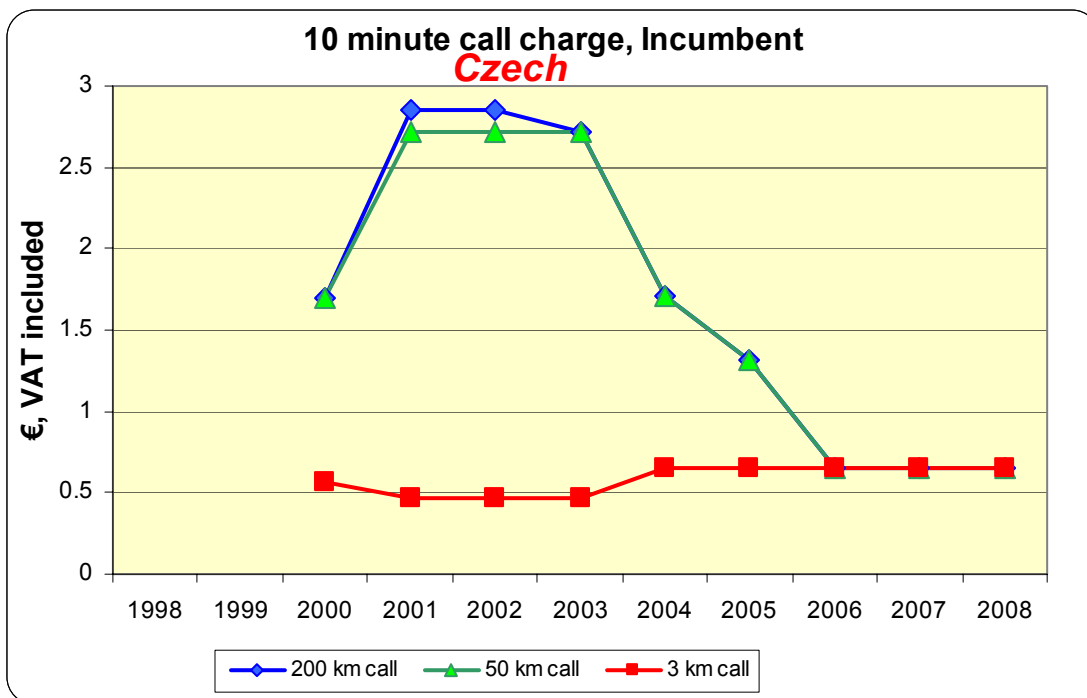


Figure 4.5 10 minute call charges, Denmark

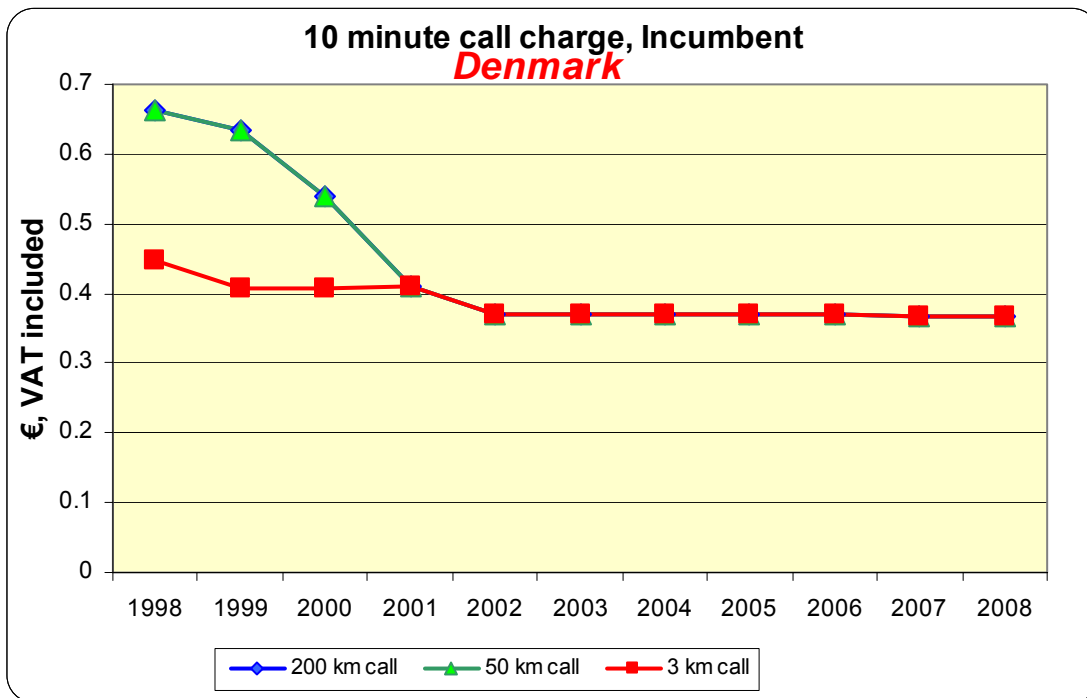


Figure 4.6 10 minute call charges, Germany

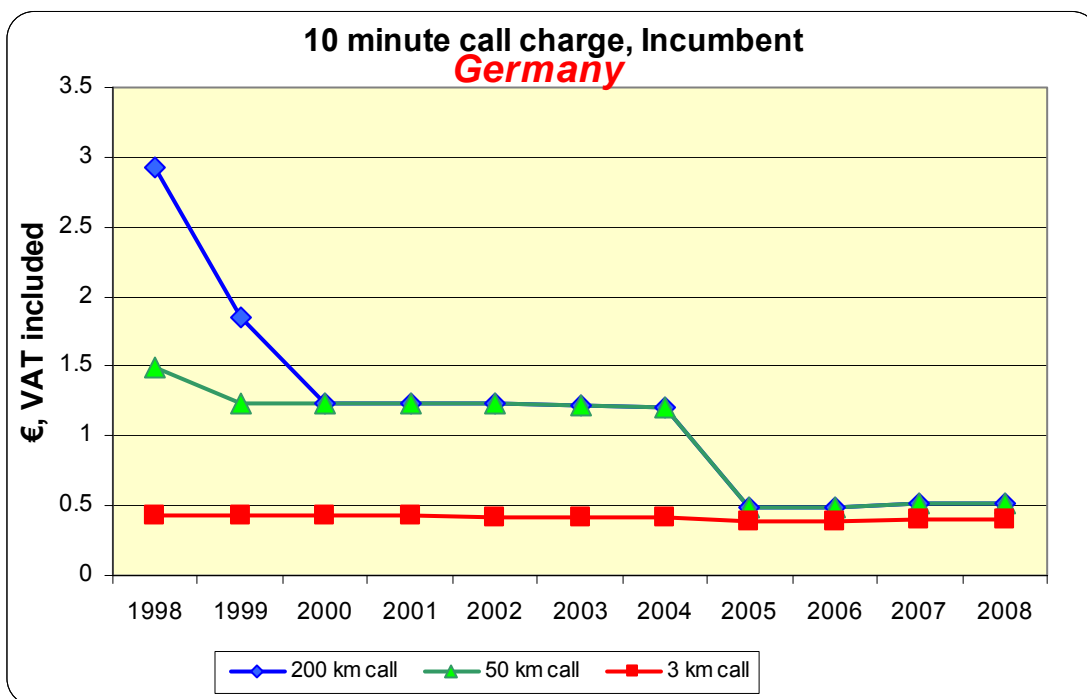


Figure 4.7 10 minute call charges, Estonia

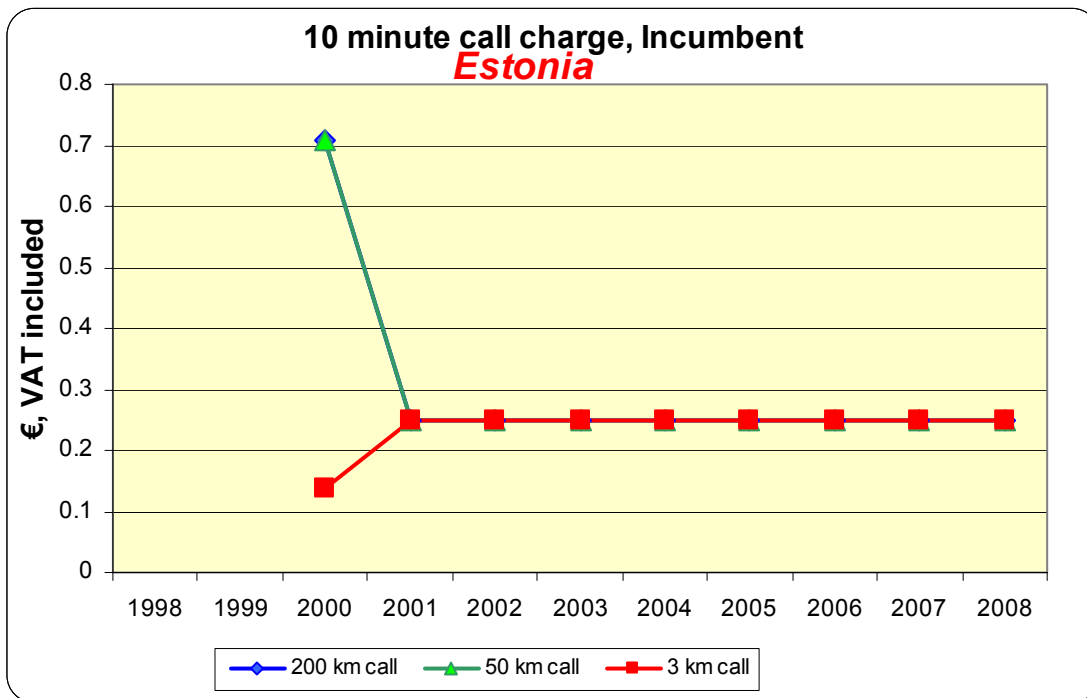


Figure 4.8 10 minute call charges, Greece

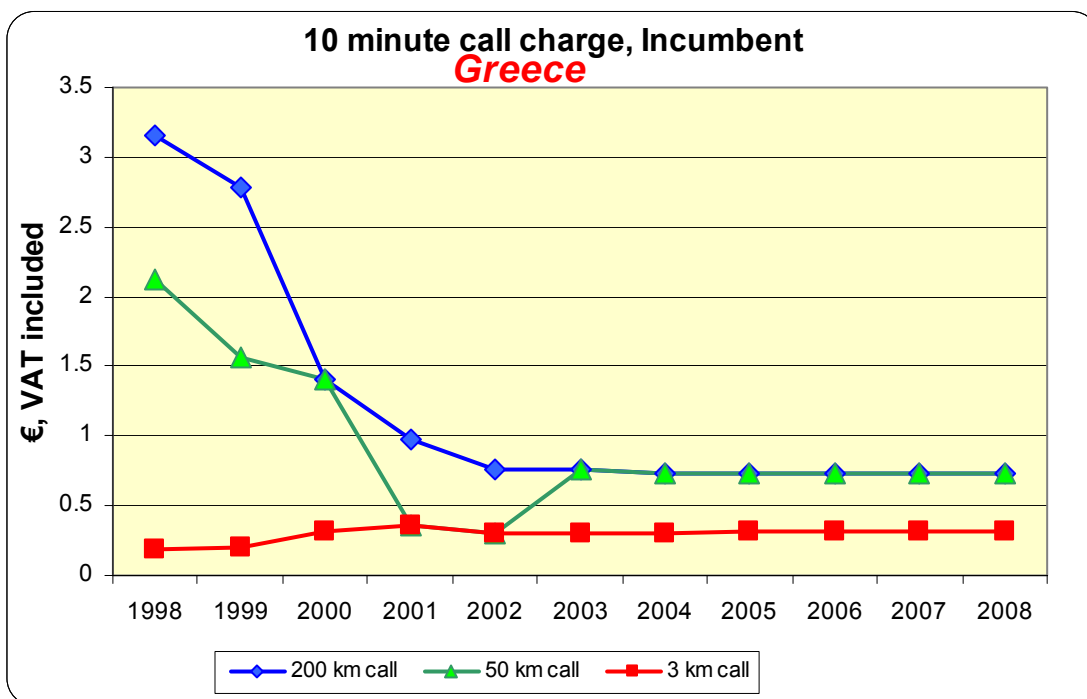


Figure 4.9 10 minute call charges, Spain

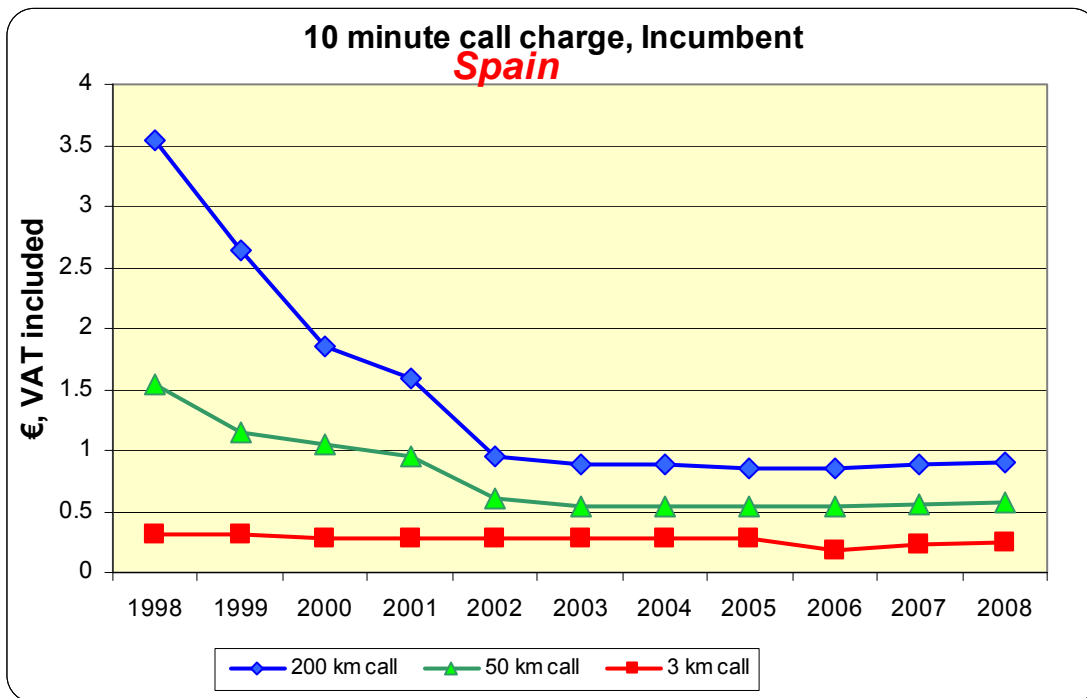


Figure 4.10 10 minute call charges, France

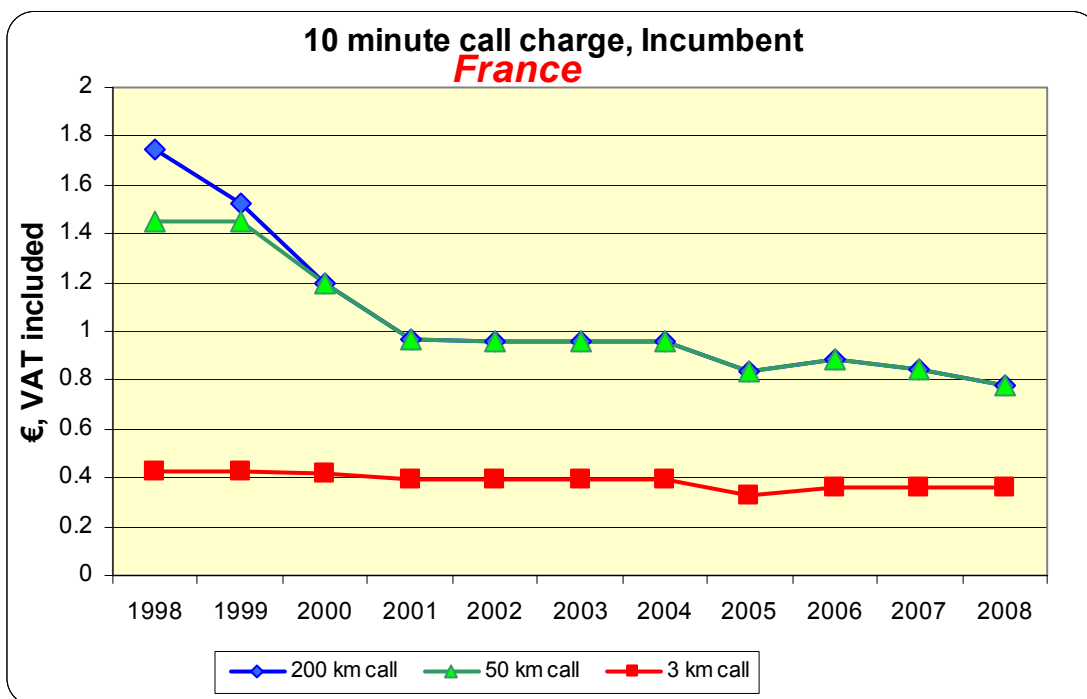


Figure 4.11 10 minute call charges, Ireland

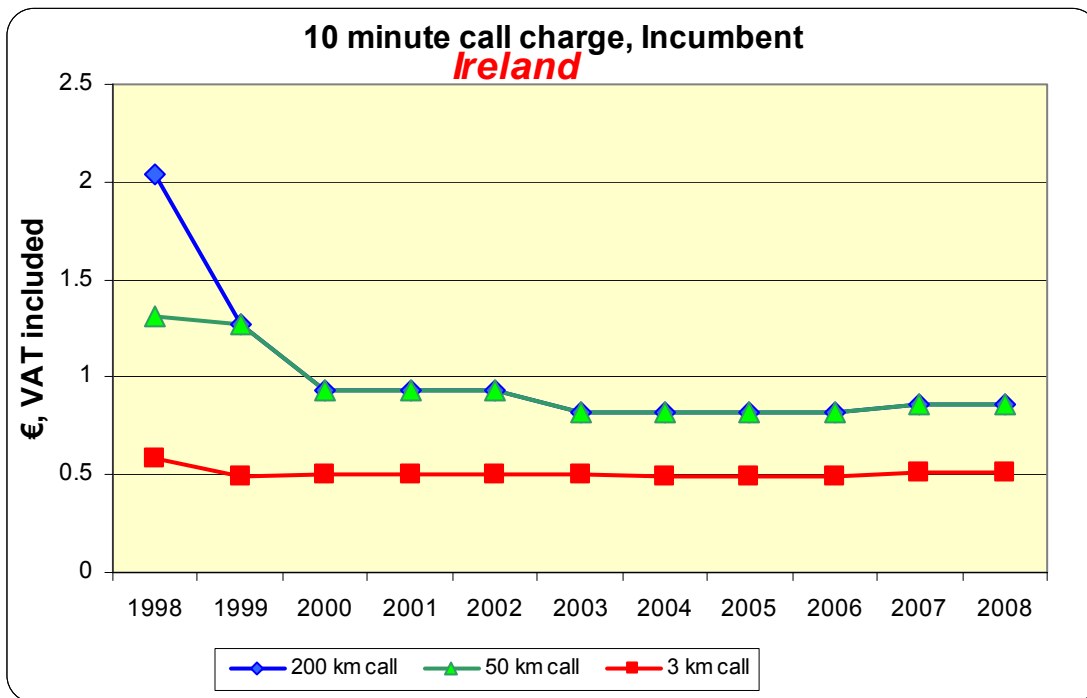


Figure 4.12 10 minute call charges, Italy

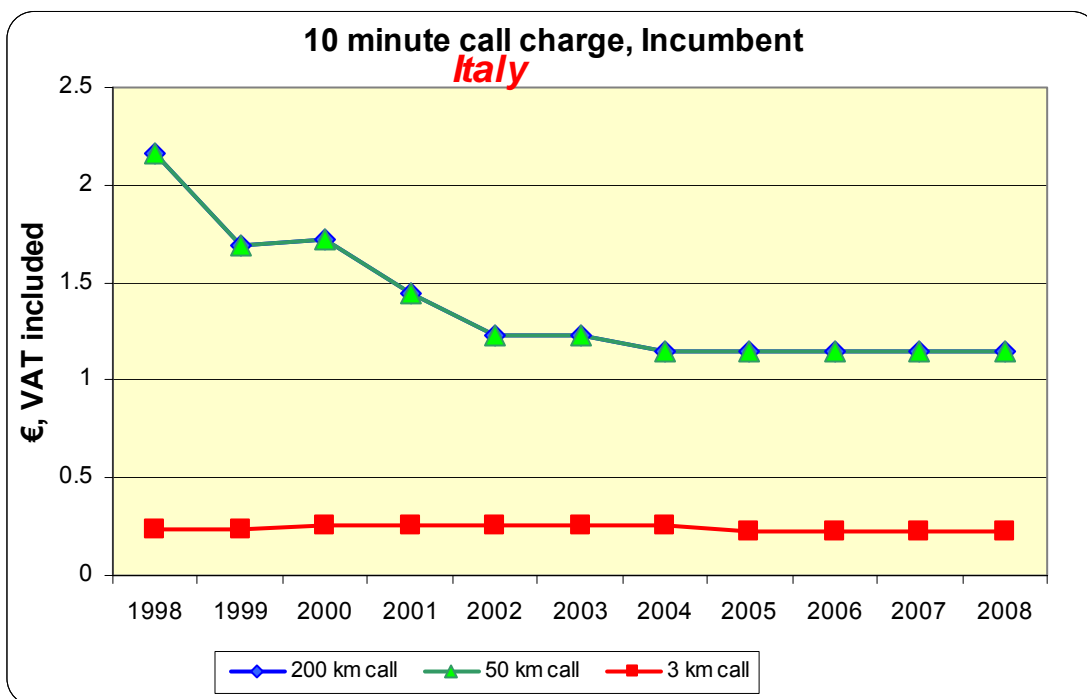


Figure 4.13 10 minute call charges, Cyprus

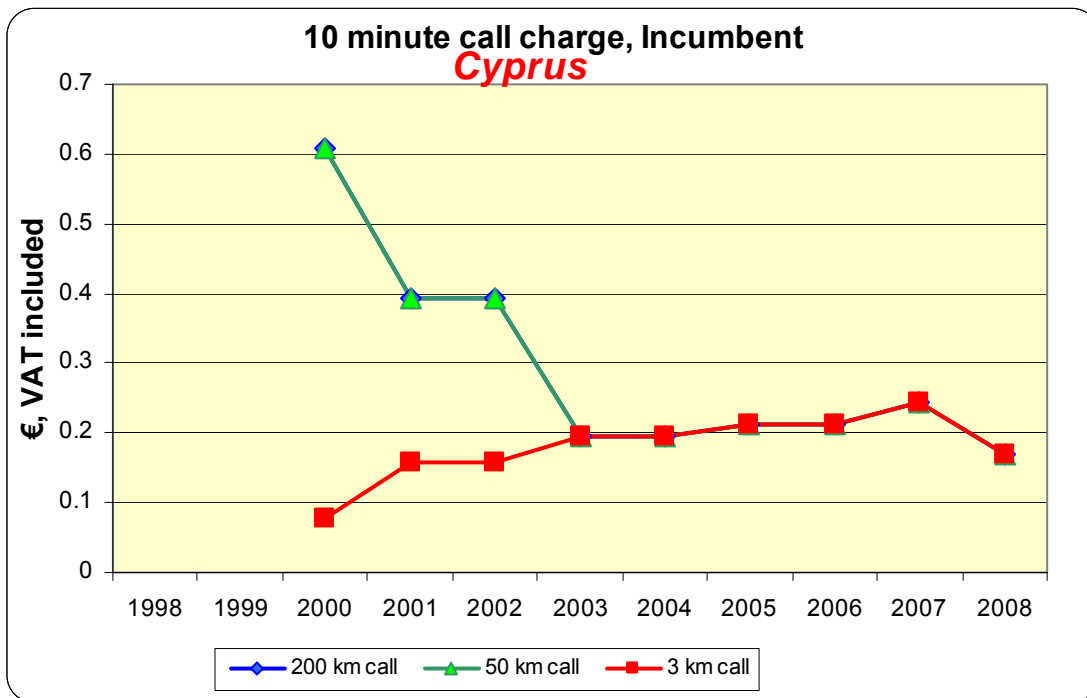


Figure 4.14 10 minute call charges, Latvia

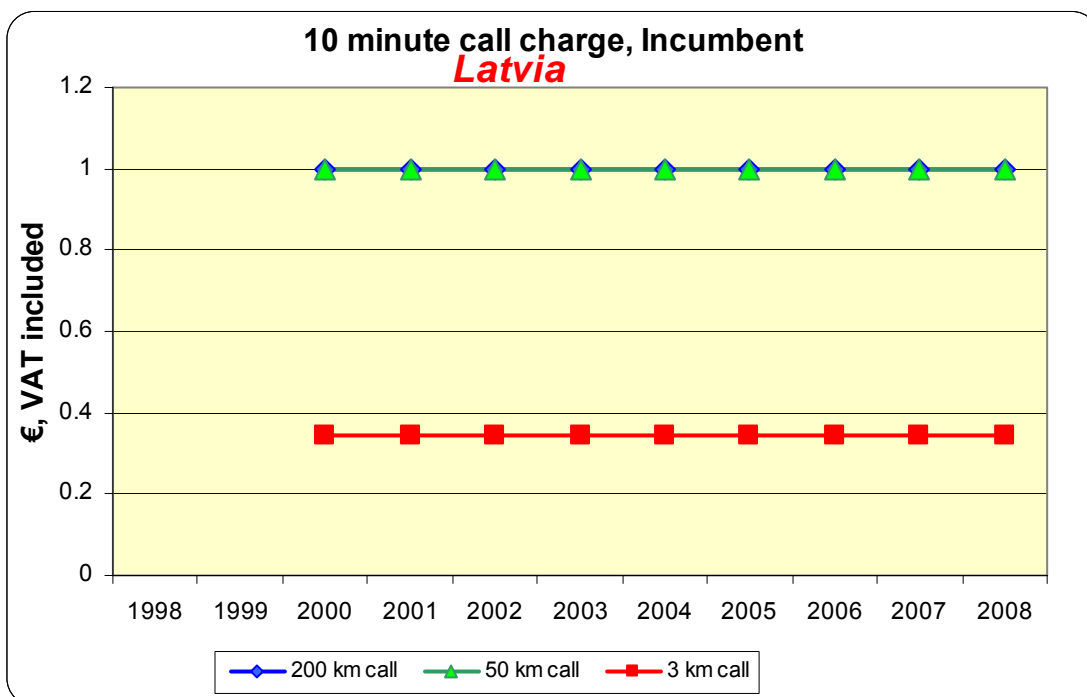


Figure 4.15 10 minute call charges, Lithuania

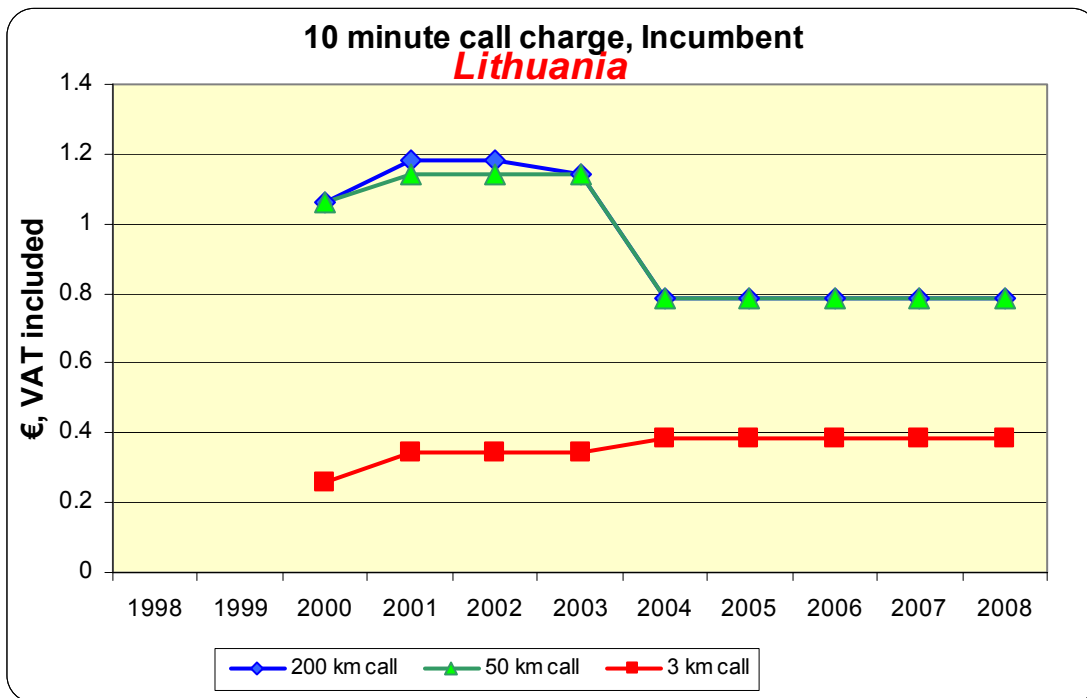


Figure 4.16 10 minute call charges, Luxembourg

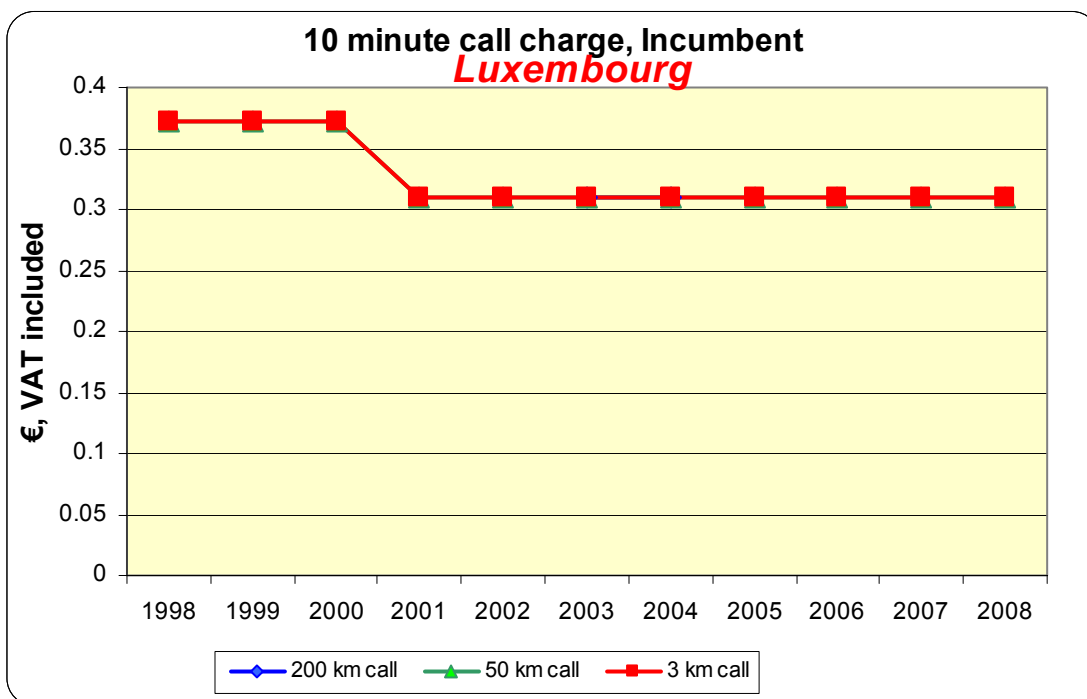


Figure 4.17 10 minute call charges, Hungary

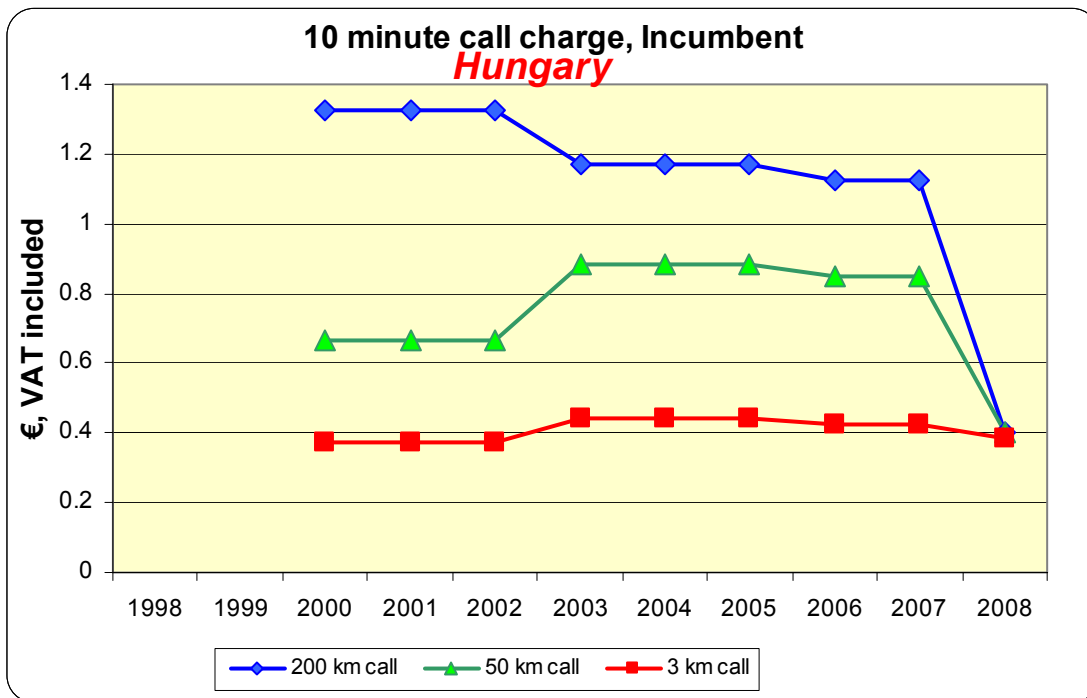


Figure 4.18 10 minute call charges, Malta

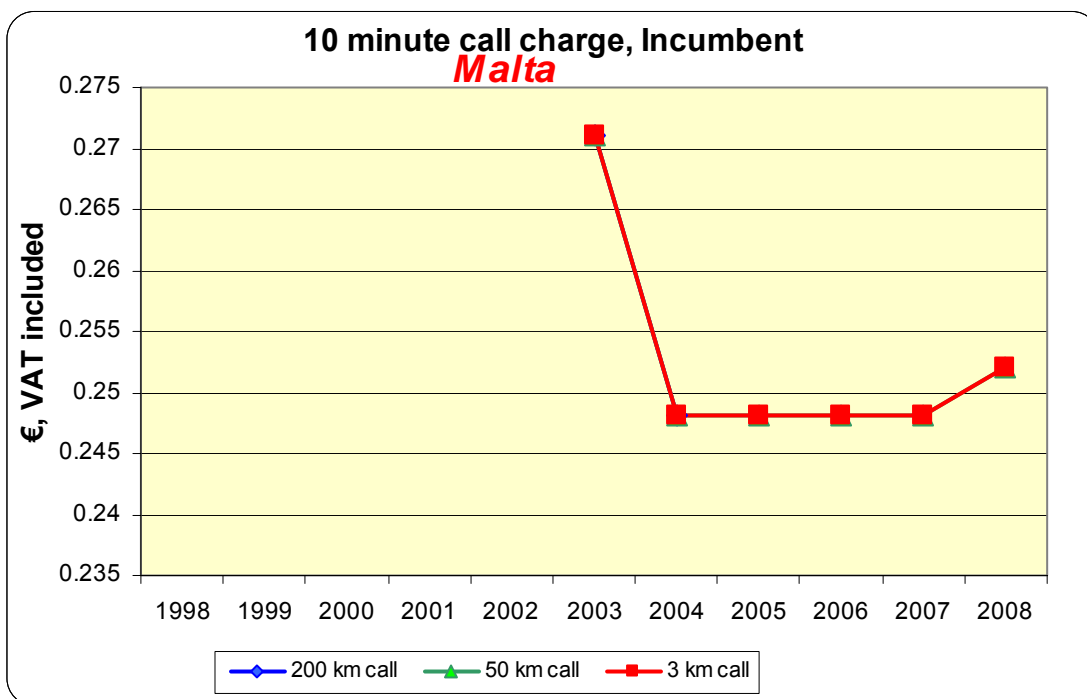
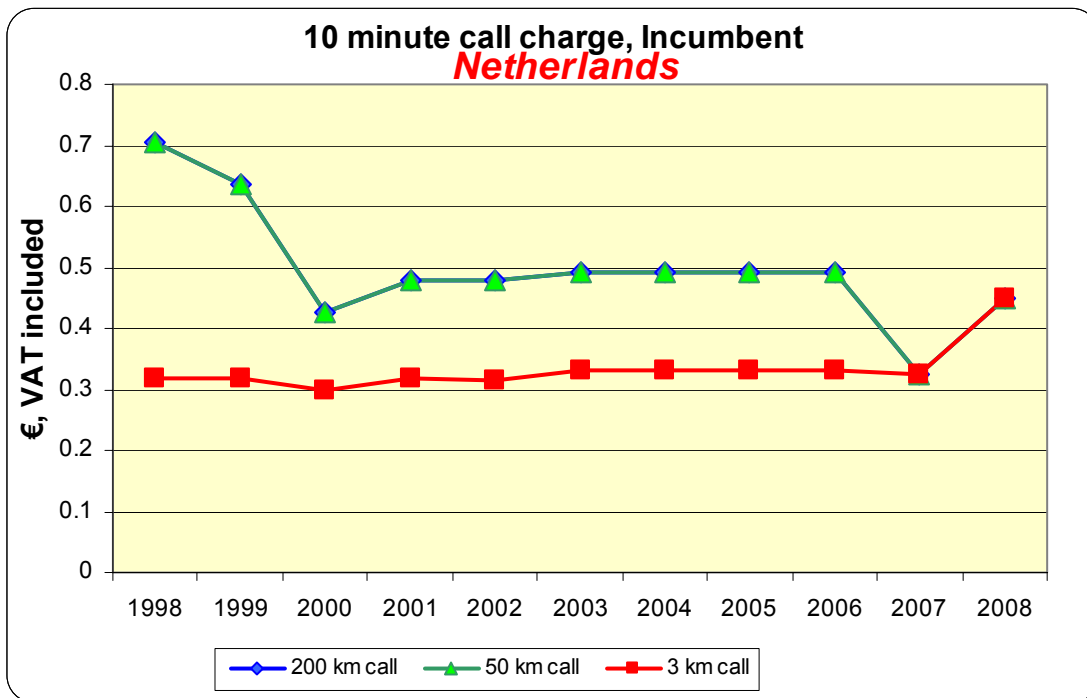
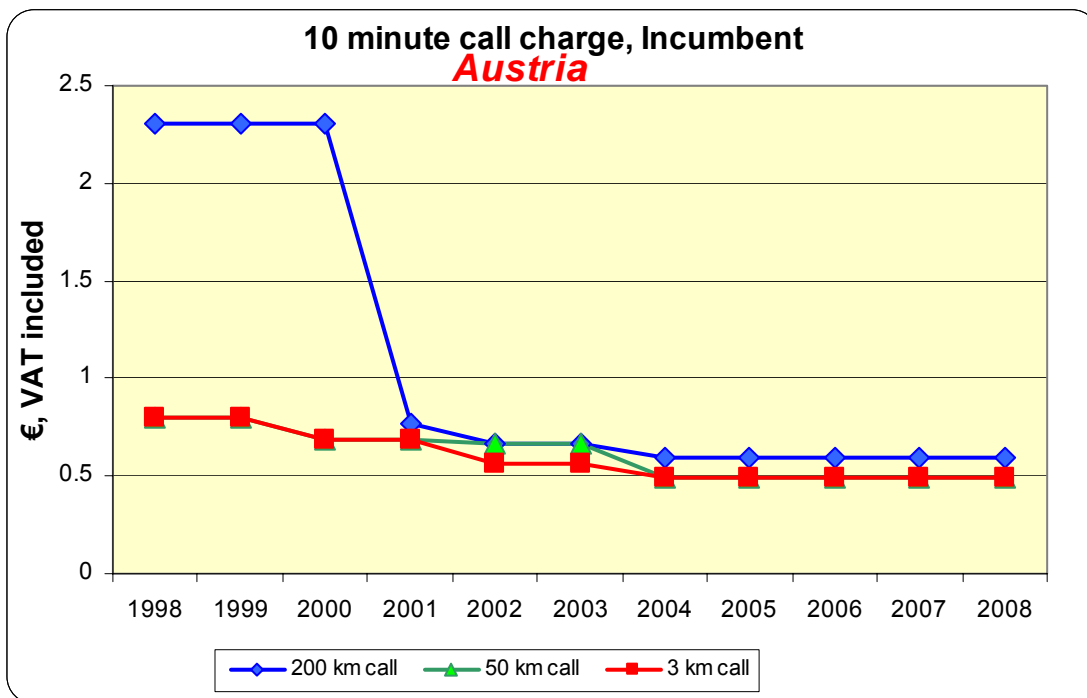


Figure 4.19 10 minute call charges, Netherlands



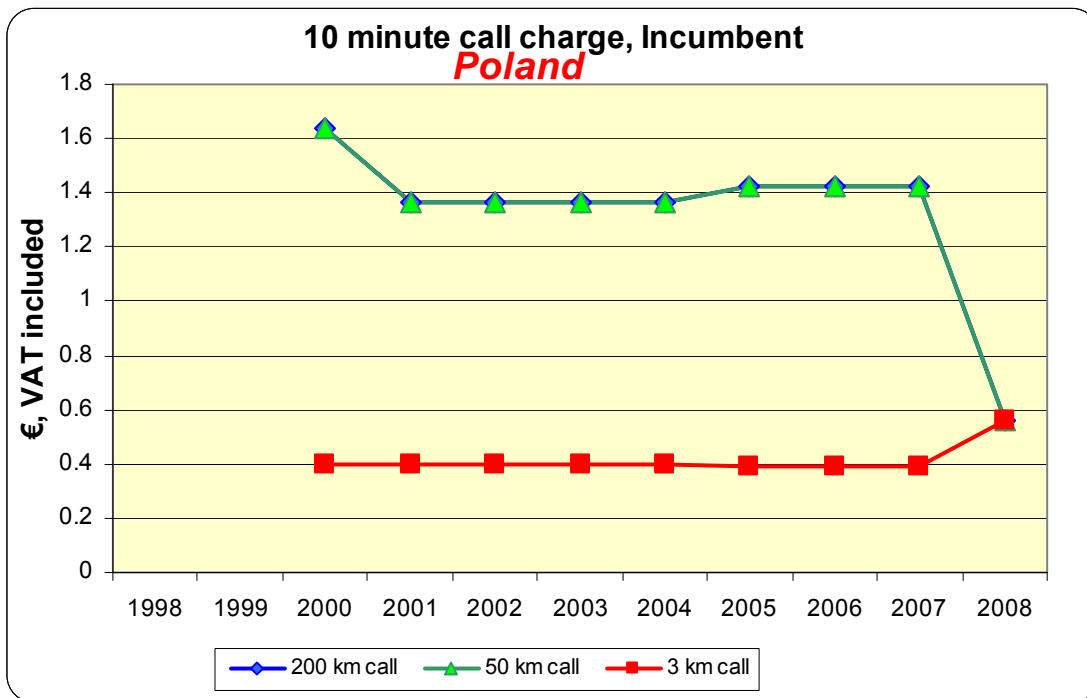
Note: Package shown up until 2006 is BelBasis, from 2007 BelVrij Weekend

Figure 4.20 10 minute call charge, Austria



Note: The default tariff for Telekom Austria changed from "Standard" to "TikTak Privat" in 2001.

Figure 4.21 10 minute call charges, Poland



Note: The default tariff for Poland since 2005 is Plan tp 60 minut za darmo

Figure 4.22 10 minute call charges, Portugal

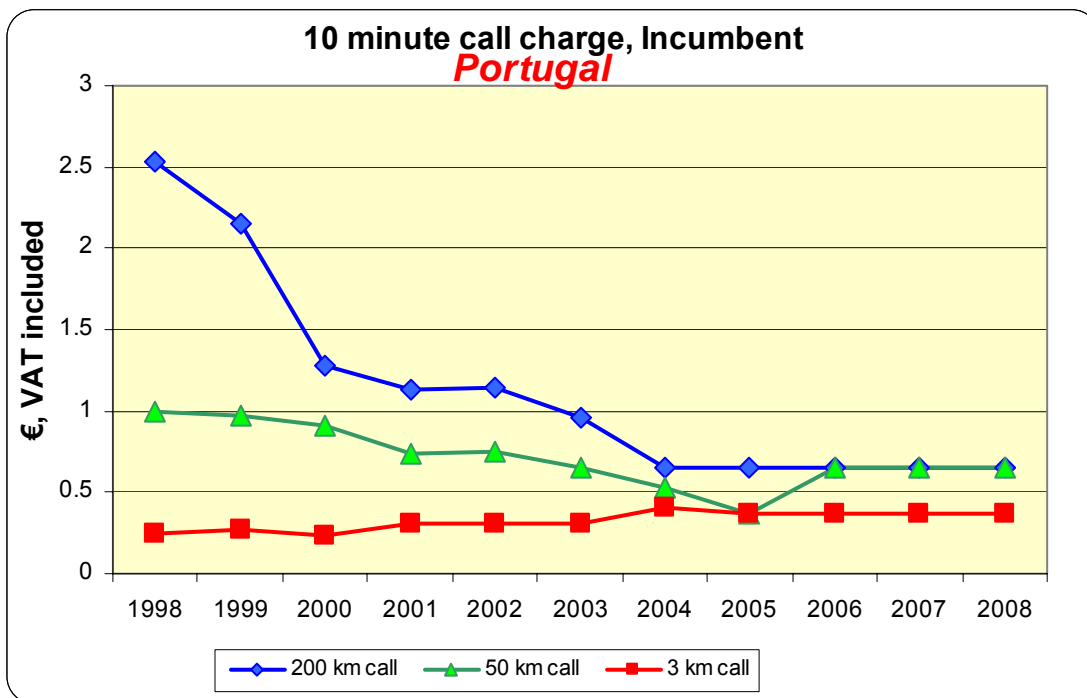


Figure 4.23 10 minute call charges, Romania

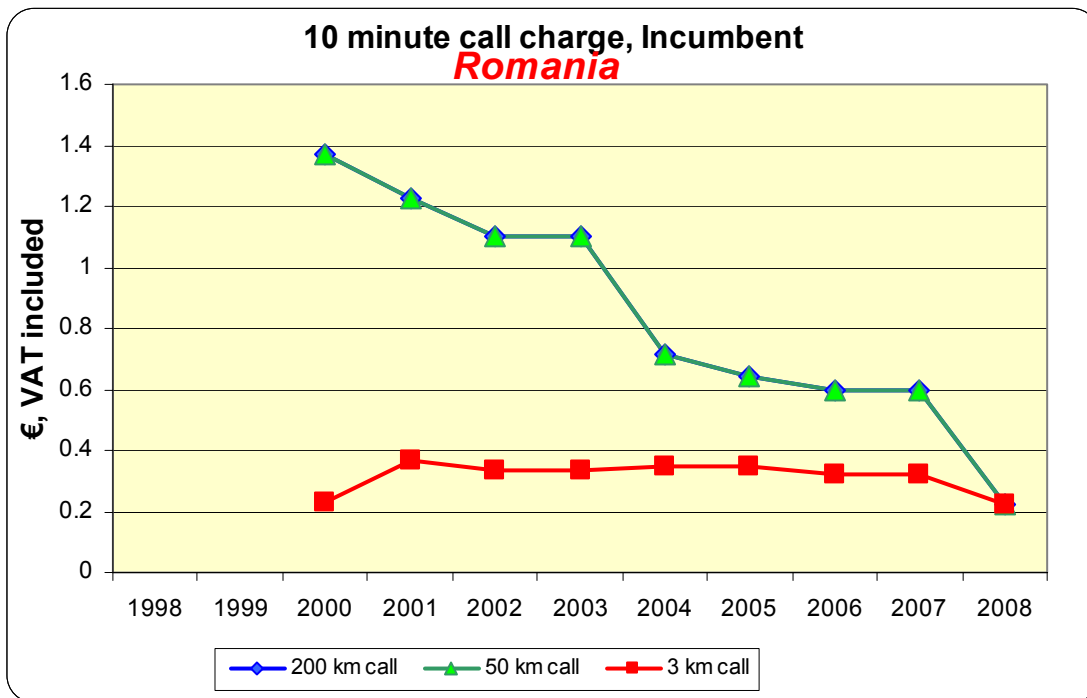


Figure 4.24 10 minute call charges, Slovak Republic

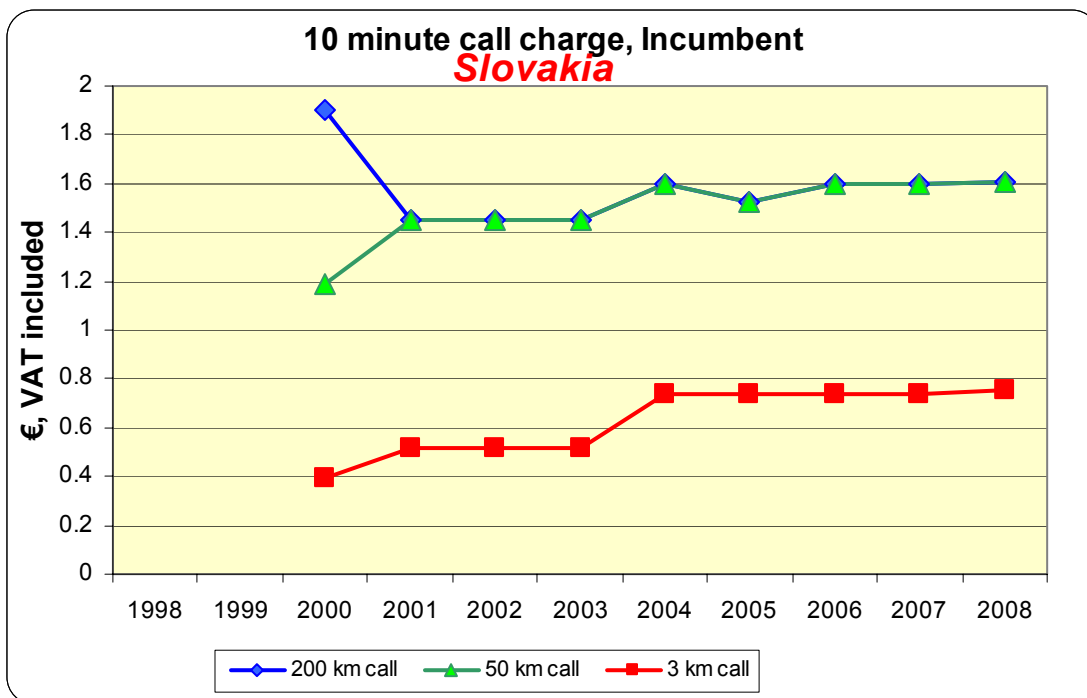


Figure 4.25 10 minute call charges, Slovenia

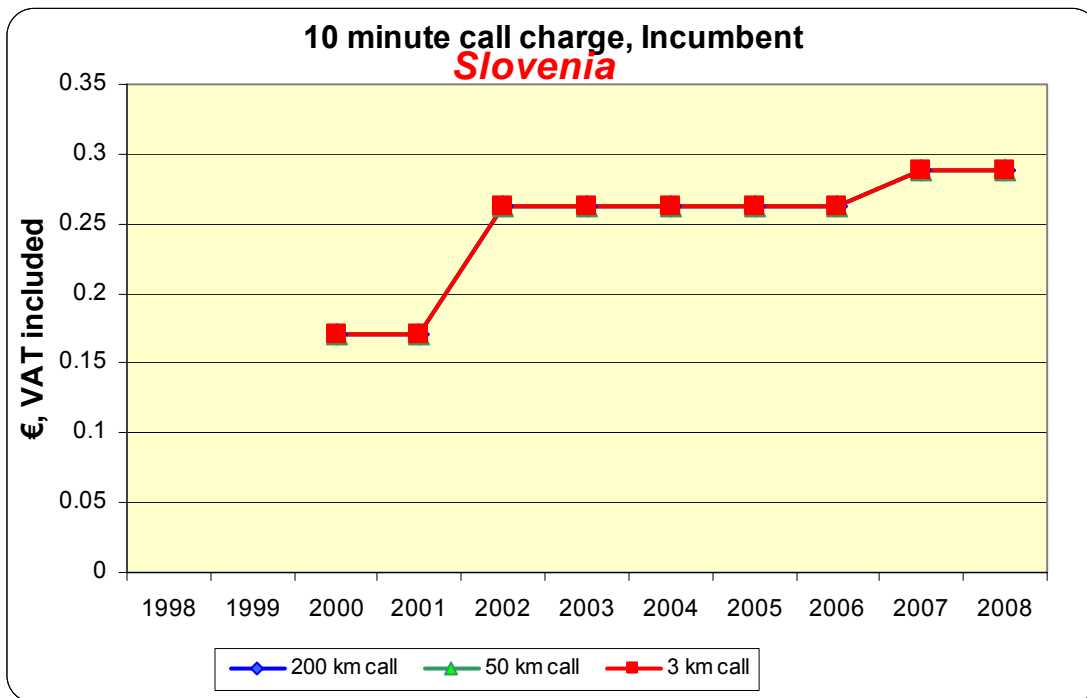


Figure 4.26 10 minute call charges, Finland

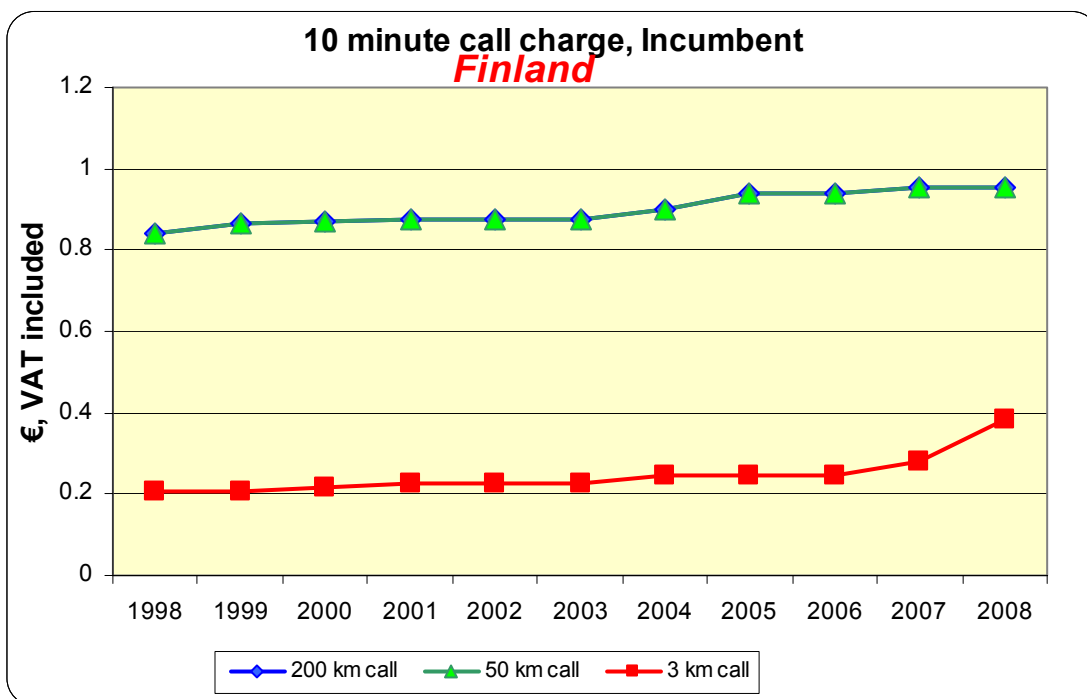


Figure 4.27 10 minute call charges, Sweden

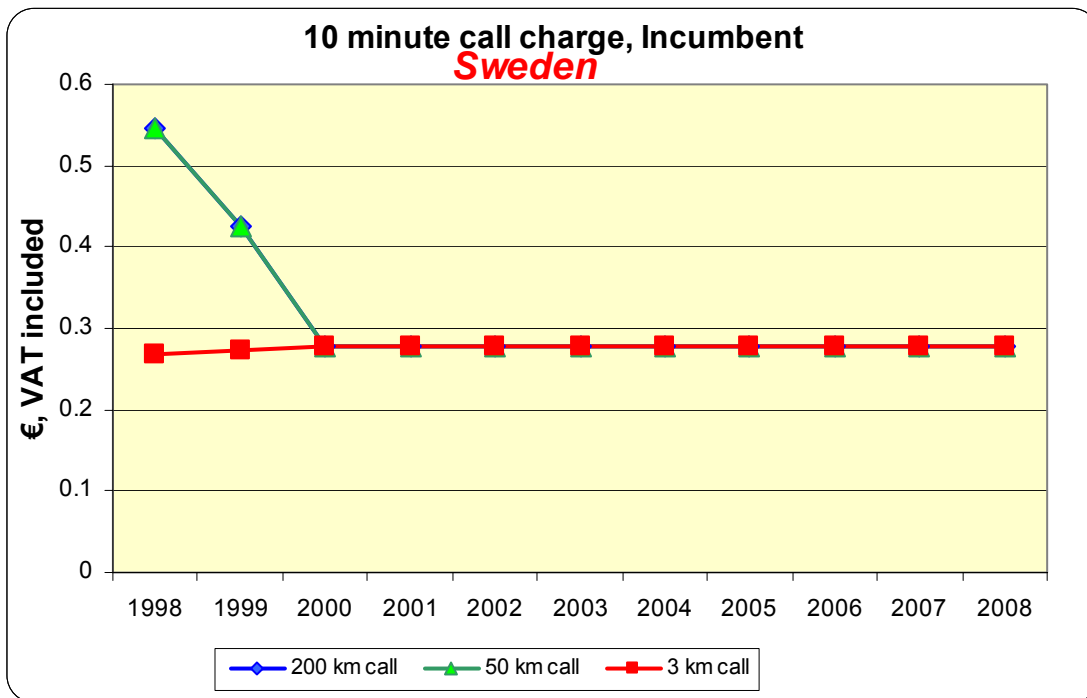
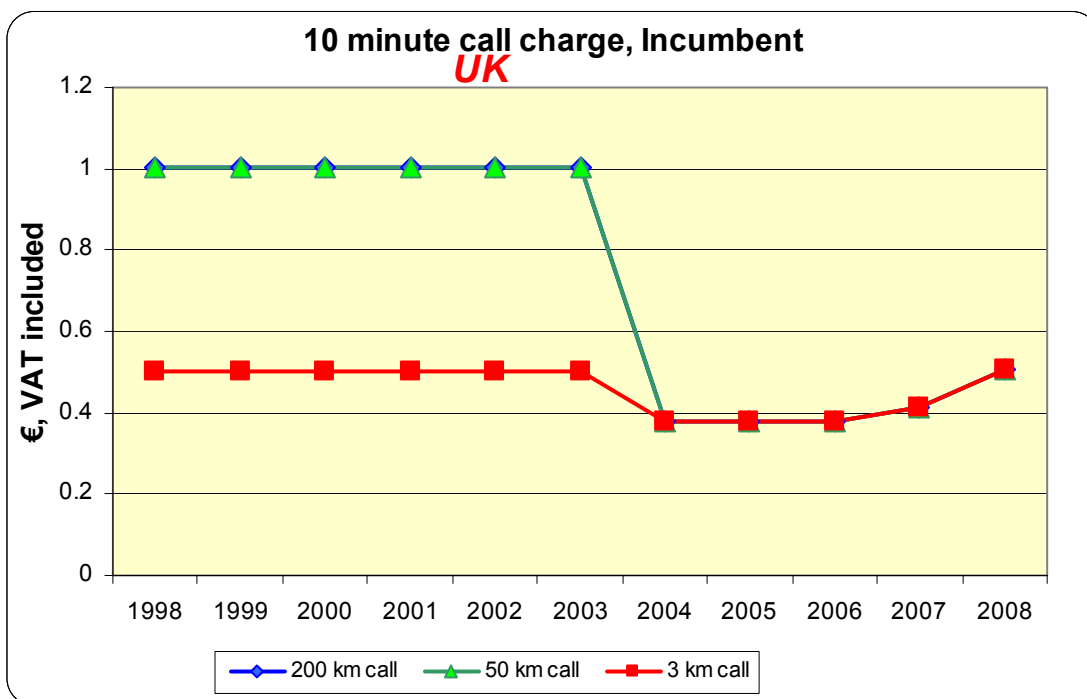
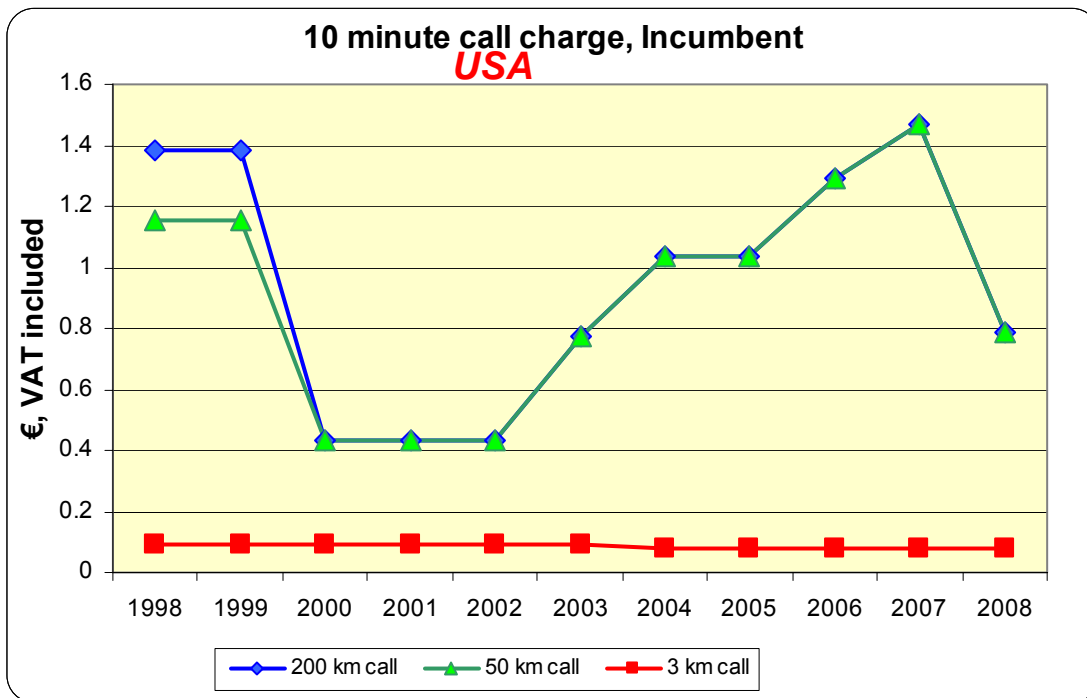


Figure 4.28 10 minute call charges, United Kingdom



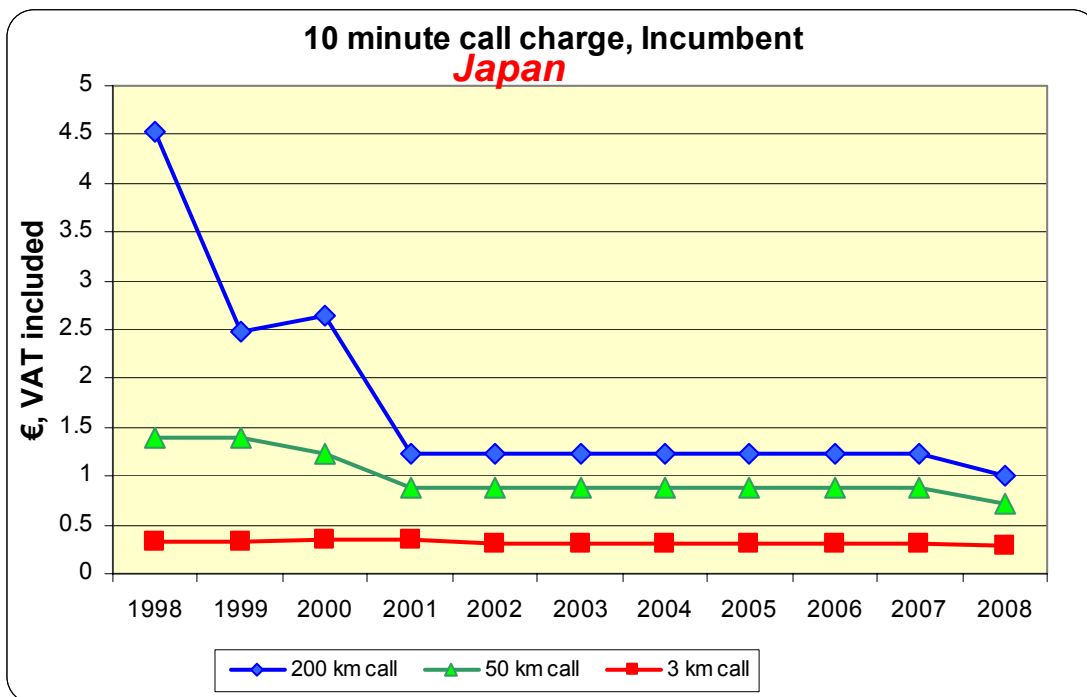
BT has discontinued the Residential Standard tariff, and all users are moved to the BT Together Option 1 tariff in 2004.
 BT changed the call charge structure in October 2006.

Figure 4.29 10 minute call charges, USA (New York)



Note on USA: The significant change in charges for 50 and 200 km calls from 1999 to 2000 reflects the fact that the long distance carriers are allowed to enter the intra-state markets from 2000. The tariffs for 2000 to 2002 relate to AT&T. The prices showed for other years relate to Verizon Intra-State services, as these have subsequently been found more relevant to the other data showed in this report. Local calls (3 km) are not affected, and refer to Verizon local services for all years.

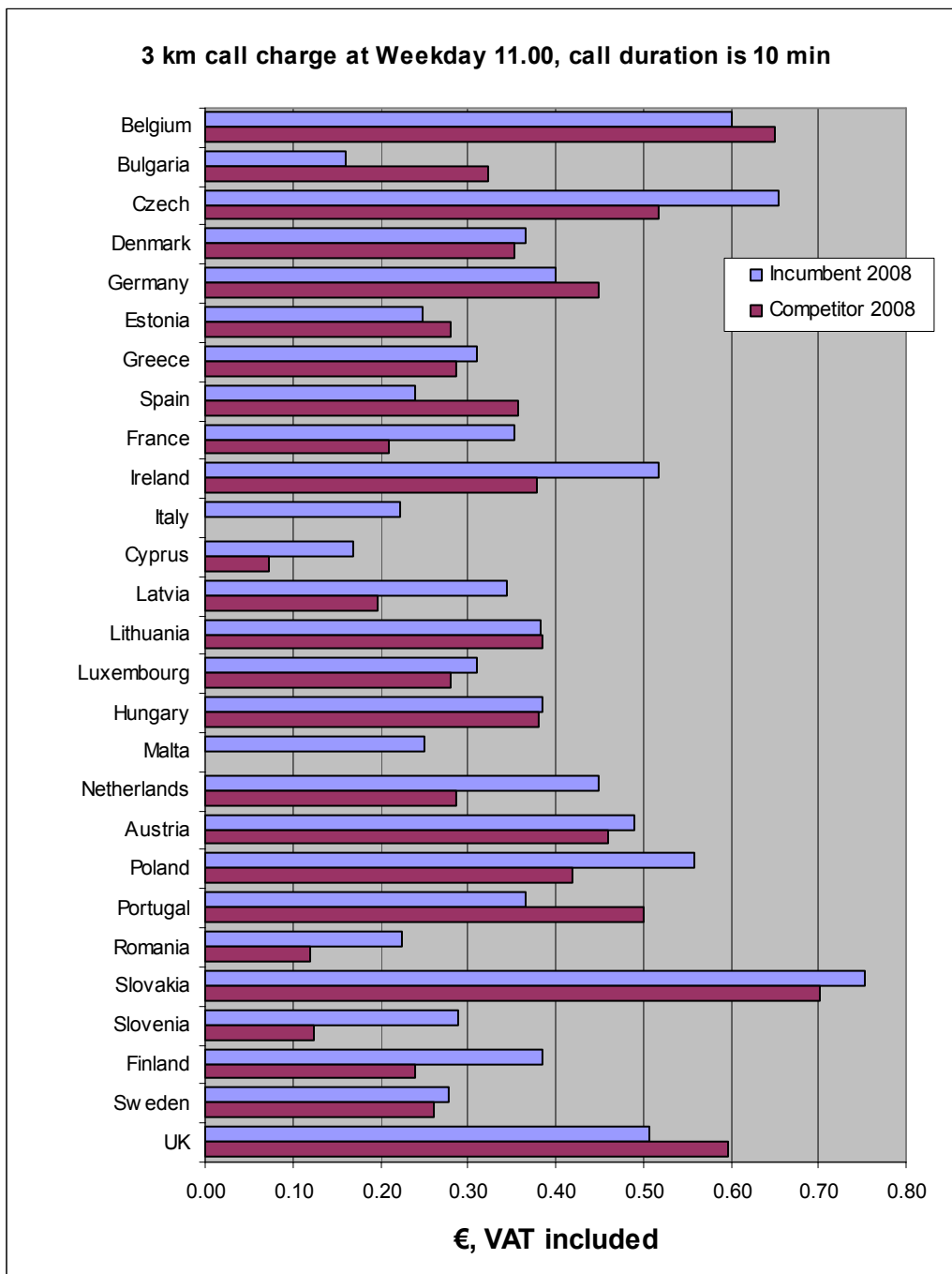
Figure 4.30 10 minute call charges, Japan



4.3. Comparing incumbents and competitors

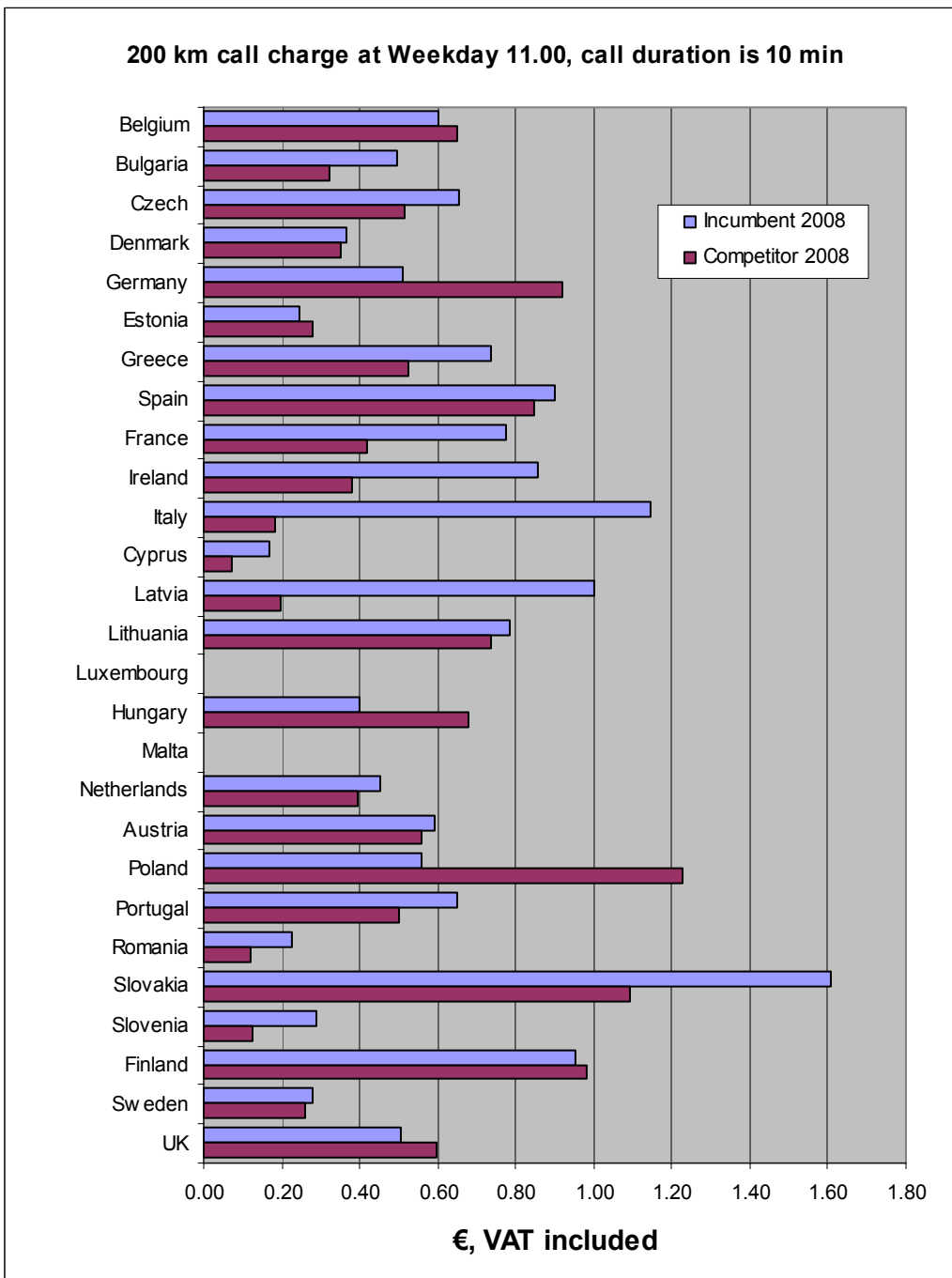
Price relationships with the Incumbent's prices are shown in the graphs following, for local and long distance calls. The selection of tariff packages will impact on this comparison, although care has been taken to ensure reasonable compatibility.

Figure 4.31 Comparison between incumbent and competitor's prices, local call



The competitor in Italy (Wind) has free local calls. There is no competitor included for Malta.

Figure 4.32 Comparison between incumbent and competitor's prices, long distance call



Calls of 200km distance do not make sense for Luxembourg and Malta due to the small size of the country.

5. International PSTN calls

The objective here has also been to study the development of the call charges actually paid by the consumer on individual calls. As the issue of unit based charges is less relevant for international calls, due to very short units, the data has been based on average per minute call charges. Call charges have been calculated for 3, 5 and 10 minute calls, but the duration doesn't alter much in terms of price relationships between originating countries and destinations.

Prices of individual international calls have been analysed with 4 different destinations. These are:

Table 5.1 International call types

Calls to:	3 minutes	5 minutes	10 minutes
Near EU country	√	√	√
Distant EU country	√	√	√
USA	√	√	√
Japan	√	√	√

The data is presented with the following parameters:

- Using EURO exchange rates, including VAT
- The years from 1998 to 2008 are covered
- Standard residential tariffs are used throughout.
- Peak time call charges are used

Due to the large amount of data only the 10 minute duration is presented in this report.

All prices are shown using average per minute charges as a base. Call setup charges are included, as are the scheme with different prices for first and additional periods used in some countries.

Table 5.2 summarises the definition of near and distant EU destination countries.

Table 5.2 Definition of destination countries.

From:	Near EU	Far EU	From:	Near EU	Far EU
BE	FR	EL	LU	DE	EL
BU	EL	PT	HU	AT	FI
CZ	DE	FI	MT	IT	FI
DK	SE	EL	NL	DE	EL
DE	FR	EL	AT	DE	EL
EE	FI	EL	P	DE	EL
EL	IT	DK	PT	ES	DK
ES	PT	DK	RO	HU	PT
FR	BE	EL	SK	CZ	FI
IE	UK	EL	SI	AT	FI
IT	EL	DK	FI	SE	EL
CY	EL	DK	SE	DK	EL
LV	SE	EL	UK	FR	EL
LT	SE	EL			

5.1. Call cost summaries

Table 5.3a Calls to near EU country, Incumbent

		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	Belgacom	4.499	4.463	4.463	1.836	1.834	1.938	1.977	1.977	1.977	2.017	2.057
Bulgaria	BTC			4.232	3.680	3.220	2.208	2.208	1.840	1.840	1.349	1.349
Czech	Telefónica					3.309	3.309	3.746	2.192	2.166	2.167	2.167
Denmark	TDC	2.703	2.233	2.165	0.772	0.772	0.772	0.772	0.772	0.772	0.769	0.769
Germany	Telekom	4.316	2.454	2.454	1.227	1.230	1.230	1.226	1.230	1.230	1.260	0.290
Estonia	Elion			3.224	1.243	0.956	0.956	0.987	0.988	0.988	0.988	0.637
Greece	OTE	5.194	5.194	3.255	2.909	2.950	2.950	2.908	2.493	2.493	2.493	2.493
Spain	Telefonica	4.691	3.904	3.625	3.625	2.205	1.530	1.530	1.530	1.530	1.530	1.566
France	Telecom	3.189	2.821	2.968	2.968	2.340	2.340	2.239	2.265	2.320	2.320	2.320
Ireland	Eircom	2.412	2.031	1.536	1.536	1.535	1.535	1.535	1.535	1.535	1.535	1.595
Italy	Telecom	5.037	3.630	2.789	2.789	2.241	2.116	2.116	2.116	2.116	2.116	2.116
Cyprus	CYTA			3.537	3.537	2.161	0.982	0.778	0.660	0.660	0.699	0.660
Latvia	Lattetekom			3.277	3.277	3.305	3.305	3.294	5.752	5.752	5.752	5.752
Lithuania	TEO LT			4.724	4.724	4.719	4.719	4.015	4.015	4.015	4.015	4.015
Luxembourg	P&T	3.956	2.737	2.058	1.437	1.436	1.436	1.365	1.365	1.365	1.365	1.365
Hungary	Magyar Telekom			3.465	3.465	3.484	2.181	2.181	2.181	2.094	2.094	2.094
Malta	Go						6.949	1.450	1.574	1.439	1.698	1.720
Netherlands	KPN	2.087	1.112	0.726	0.726	0.759	0.848	0.917	0.849	0.849	0.900	0.871
Austria	Telekom	3.837	4.055	3.070	3.070	2.470	2.470	1.896	1.896	1.896	1.999	1.990
Poland	Telecom			5.277	5.277	5.277	5.277	4.085	4.164	4.130	4.130	3.265
Portugal	Telecom	4.888	3.359	3.210	2.604	2.768	2.768	2.768	2.814	2.814	2.814	2.791
Romania	RomTelecom			5.372	6.331	4.742	4.742	2.856	2.618	2.618	1.189	1.189
Slovakia	Slovak Telecom			6.164	6.164	3.370	3.370	3.433	3.433	1.521	1.521	1.794
Slovenia	Telekom				2.981	1.753	1.753	1.753	1.252	1.252	1.252	1.252
Finland	TeliaSonera	2.216	1.785	1.810	1.801	1.837	1.837	1.771	1.900	1.900	1.779	1.779
Sweden	Telia	1.558	1.558	1.006	1.006	1.006	0.551	0.551	0.551	0.551	0.551	0.551
UK	BT	3.608	3.608	3.608	3.608	3.608	3.608	2.157	2.158	1.904	2.424	2.735
USA	Verizon	#N/A	0.950	0.863	0.863	0.863	0.691	0.691	0.691	0.777	0.777	0.691
Japan	NTT	19.058	14.933	12.423	12.423	12.423	12.423	13.040	12.423	12.335	12.335	12.335
EU27 Weighted		3.982	3.134	3.268	2.993	2.606	2.487	2.114	2.075	2.025	2.028	1.845

Table 5.3b Calls to near EU country, Competitor

		2002	2003	2004	2005	2006	2007	2008
Belgium	Telenet	1.388	1.938	1.938	1.977	1.977	2.017	2.017
Bulgaria	Orbitel						0.920	0.920
Czech	České Radiokomunikace			1.406	1.406	0.910	1.084	1.084
Denmark	Tele2	0.705	0.705	0.705	0.705	0.705	0.702	0.702
Germany	Arcor	1.227	1.227	1.227	1.227	1.227	1.500	1.500
Estonia	Starman		2.137	2.137	0.796	0.796	0.650	0.662
Greece	Tellas	2.348	2.183	2.183	2.094	2.094	1.964	1.960
Spain	Ono	3.277	1.460	1.462	1.462	1.355	1.356	1.356
France	NeufCegetel	0.945	0.945	0.706	0.706	0.620	0.620	0.620
Ireland	BT	1.536	1.000	0.800	0.999	1.199	0.799	0.848
Italy	Wind		2.329	2.330	2.330	1.546	1.546	1.546
Cyprus	CallSat			0.727	0.727	0.727	0.550	0.478
Latvia	Telecom Baltija			2.294	2.802	1.163	0.983	0.688
Lithuania	Eurocom *			5.062	1.478	1.478	1.478	3.738
Luxembourg	Tele2	1.110	1.110	1.110	0.950	0.950	0.950	0.950
Hungary	Tele2		3.156	3.301	0.978	0.939	0.939	0.939
Malta								
Netherlands	Pretium		0.650	0.650	0.550	0.550	0.495	0.495
Austria	Tele2	1.380	1.380	1.380	0.990	0.990	1.790	0.990
Poland	Tele2	4.732	4.732	3.575	3.575	2.746	1.895	1.842
Portugal	Novo Optimus	1.188	1.188	1.661	2.734	2.734	2.814	2.791
Romania	RCS&RDS						1.380	1.380
Slovakia	GTS Nextra				1.482	1.170	1.170	1.170
Slovenia	T-2			1.002	1.002	1.002	0.400	0.400
Finland	Elisa	1.480	1.480	1.480	1.480	1.480	1.420	1.420
Sweden	Tele2	0.910	0.480	0.541	0.541	0.541	0.565	0.565
UK	Virgin	2.601	2.602	2.602	2.602	2.602	2.996	3.114
EU27 Weighted		2.082	1.896	1.789	1.723	1.512	1.533	1.544

Notes:

All charges are in Euro, including VAT

Call duration is 10 minutes, and any call setup is included

Table 5.4a Calls to distant EU country, Incumbent

		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	Belgacom	6.428	5.948	5.948	2.577	2.578	2.651	2.705	2.705	2.705	2.760	2.815
Bulgaria	BTC			8.465	7.360	4.294	2.760	2.760	1.840	1.840	1.840	1.840
Czech	Telefónica					7.859	6.204	4.262	2.399	2.363	2.362	2.362
Denmark	TDC	6.731	6.060	6.060	4.398	4.398	4.398	4.062	4.062	4.062	4.059	4.059
Germany	Telekom	4.316	4.280	4.280	2.454	2.460	2.460	2.453	2.460	2.460	2.520	0.290
Estonia	Elion			8.962	5.746	5.708	5.708	5.739	3.413	3.413	3.413	1.275
Greece	OTE	5.194	5.194	3.255	2.909	2.950	2.950	2.908	2.493	2.493	2.493	2.493
Spain	Telefonica	4.691	3.904	3.625	3.625	2.205	1.530	1.530	1.530	1.530	1.530	1.566
France	Telecom	3.805	3.429	2.968	2.968	2.500	2.500	2.195	2.221	2.320	2.320	2.320
Ireland	Eircom	4.824	4.826	4.826	4.826	4.825	4.825	3.969	3.872	3.872	3.872	3.932
Italy	Telecom	5.037	3.630	2.789	2.789	2.241	2.116	2.116	2.116	2.116	2.116	2.116
Cyprus	CYTA			5.894	5.894	3.930	3.262	0.978	0.648	0.648	0.688	0.648
Latvia	Lattelekom			6.555	6.555	5.763	5.763	5.752	6.571	6.571	6.571	5.752
Lithuania	TEO LT			16.535	16.535	11.811	11.811	4.015	4.015	4.015	4.015	4.015
Luxembourg	P&T	5.673	3.934	3.934	2.429	2.429	2.429	2.064	1.365	1.365	1.365	1.365
Hungary	Magyar Telekom			4.476	4.476	4.495	2.614	2.614	2.614	3.064	2.510	2.510
Malta	Go						9.940	7.961	8.085	7.955	8.209	8.312
Netherlands	KPN	3.676	3.676	3.223	2.630	2.782	2.919	2.919	2.920	2.920	2.946	1.535
Austria	Telekom	5.116	5.407	4.317	4.317	3.770	3.770	3.096	3.096	3.096	3.194	3.194
Poland	Telecom			5.754	5.754	5.754	5.754	4.085	4.164	4.130	4.130	3.265
Portugal	Telecom	4.888	3.942	3.793	2.894	3.062	3.062	3.062	3.114	3.114	3.114	3.088
Romania	RomTelecom			5.372	6.331	4.742	4.742	2.856	2.618	2.618	1.189	1.189
Slovakia	Slovak Telecom			8.777	8.777	3.839	3.839	3.745	3.745	1.521	1.521	1.794
Slovenia	Telekom				3.847	1.753	1.753	1.753	1.402	1.402	1.402	1.402
Finland	TeliaSonera	5.745	5.589	5.676	5.670	5.637	4.837	4.771	4.900	4.900	4.779	4.779
Sweden	Telia	5.098	5.098	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586	3.586
UK	BT	4.510	4.510	4.510	4.510	4.510	4.510	2.792	1.777	1.777	1.853	2.101
USA	Verizon	#N/A	2.417	2.504	2.504	2.504	1.813	0.863	0.863	0.950	0.950	0.863
Japan	NTT	19.141	19.058	20.177	20.177	20.177	20.177	19.825	20.177	18.767	13.216	13.216
EU27 Weighted		4.582	4.164	4.282	3.846	3.459	3.288	2.705	2.514	2.508	2.457	2.004

Table 5.4b Calls to distant EU country, Competitor

		2002	2003	2004	2005	2006	2007	2008
Belgium	Telenet	2.231	2.651	2.651	2.705	2.705	2.760	2.760
Bulgaria	Orbitel						0.920	0.920
Czech	České Radiokomunikace			1.609	1.609	1.324	1.576	1.576
Denmark	Tele2	4.049	4.049	4.049	4.049	4.049	4.045	4.045
Germany	Arcor	2.454	2.454	2.454	2.454	2.454	2.500	2.500
Estonia	Starman		4.051	4.051	2.902	1.818	2.245	2.258
Greece	Tellas	2.348	2.183	2.183	2.094	2.094	1.964	1.960
Spain	Ono	3.277	1.460	1.462	1.462	1.355	1.356	1.356
France	NeufCegetel	1.545	1.545	0.707	0.707	0.920	0.920	0.920
Ireland	BT	4.825	2.400	1.200	1.200	1.199	1.199	1.248
Italy	Wind		2.329	2.330	2.330	1.546	1.546	1.546
Cyprus	CallSat			0.747	1.336	1.336	0.570	0.495
Latvia	Telecom Baltija			2.950	2.802	1.491	0.983	2.394
Lithuania	Eurocom *			4.776	1.478	1.478	1.478	3.738
Luxembourg	Tele2	1.485	1.485	1.485	0.950	0.950	0.950	0.950
Hungary	Tele2		3.398	3.542	0.978	0.939	0.939	0.939
Malta								
Netherlands	Pretium		2.090	2.090	1.820	1.820	1.645	1.390
Austria	Tele2	2.540	2.540	2.540	2.540	2.830	2.990	2.490
Poland	Tele2	7.149	7.149	3.575	3.575	2.746	1.895	1.842
Portugal	Novo Optimus	2.789	2.789	1.831	3.023	3.023	3.114	3.088
Romania	RCS&RDS						1.096	1.085
Slovakia	GTS Nextra				1.482	1.170	1.170	1.170
Slovenia	T-2			1.302	1.085	1.085	0.521	0.493
Finland	Elisa	4.180	4.180	4.180	4.180	4.180	4.120	4.120
Sweden	Tele2	3.490	3.490	3.535	3.535	3.535	3.559	3.559
UK	Virgin	2.601	2.602	2.602	2.602	2.602	2.488	2.682
EU27 Weighted		3.031	2.709	2.252	2.177	2.013	1.882	1.906

Notes:

All charges are in Euro, including VAT

Call duration is 10 minutes, and any call setup is included

Table 5.5a Calls to USA, Incumbent

		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	Belgacom	5.999	5.948	5.948	1.836	1.834	1.938	1.977	1.977	1.977	2.017	2.057
Bulgaria	BTC			11.286	9.201	5.152	4.416	4.416	1.840	1.840	1.349	1.349
Czech	Telefónica					3.764	3.764	4.262	2.399	2.363	2.362	2.362
Denmark	TDC	5.254	4.717	4.717	2.719	2.719	2.384	2.384	2.384	2.384	2.380	2.380
Germany	Telekom	4.316	2.454	2.454	1.227	1.230	1.230	1.226	1.230	1.230	1.260	0.290
Estonia	Elion			10.242		2.372	2.372	2.403	2.551	2.264	2.264	1.626
Greece	OTE	5.818	5.818	3.255	2.909	2.950	2.950	2.908	2.933	2.933	2.933	2.933
Spain	Telefonica	6.077	4.532	4.253	4.253	2.205	1.530	1.530	1.530	1.530	1.530	1.566
France	Telecom	3.437	3.050	2.968	2.968	2.340	2.340	2.239	2.265	2.320	2.320	2.320
Ireland	Eircom	3.683	2.919	2.919	1.905	1.905	1.905	1.905	1.905	1.905	1.905	1.964
Italy	Telecom	4.988	3.630	2.789	2.789	2.241	2.116	2.116	2.116	2.116	2.116	2.116
Cyprus	CYTA			3.733	3.733	2.358	0.982	0.778	0.648	0.648	0.688	0.648
Latvia	Latt Telekom			5.735	5.735	5.763	5.763	5.752	5.752	5.752	5.752	5.752
Lithuania	TEO LT			11.811	11.811	7.979	7.979	4.015	4.015	4.015	4.015	4.015
Luxembourg	P&T	5.673	2.737	2.058	1.437	1.436	1.436	1.365	1.365	1.365	1.365	1.365
Hungary	Magyar Telekom			4.620	4.620	4.639	3.192	2.614	3.192	3.064	2.510	2.510
Malta	Go						12.425	1.634	1.758	1.629	1.882	1.906
Netherlands	KPN	2.768	0.898	0.783	0.783	0.759	0.848	0.848	0.849	0.849	0.900	0.687
Austria	Telekom	5.756	6.078	4.317	4.317	3.770	3.770	1.896	1.896	1.896	1.999	1.990
Poland	Telecom			11.780	11.780	11.780	11.780	4.085	4.164	4.130	4.130	3.265
Portugal	Telecom	6.135	4.233	3.677	2.894	3.062	3.062	3.062	3.114	3.114	3.114	3.088
Romania	RomTelecom			6.906	7.290	5.478	5.478	2.737	2.618	2.618	1.189	1.189
Slovakia	Slovak Telecom			11.040	11.040	3.761	3.761	3.745	3.745	1.521	1.521	1.794
Slovenia	Telekom				2.981	1.753	1.753	1.753	1.402	1.402	1.402	1.402
Finland	TeliaSonera	7.428	5.653	5.678	4.795	4.837	4.837	4.771	4.900	4.900	4.779	4.779
Sweden	Telia	4.592	4.592	1.044	1.044	1.044	1.044	1.006	1.006	1.006	1.006	1.006
UK	BT	2.998	2.998	2.998	2.998	2.998	2.998	1.776	1.777	1.904	1.980	2.291
USA	Verizon	#N/A	#N/A	#N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Japan	NTT	10.643	6.600	5.287	5.287	5.287	5.287	5.287	5.287	5.225	4.670	4.670
EU27 Weighted		4.432	3.431	4.250	3.847	3.252	3.141	2.199	2.139	2.131	2.068	1.878

Table 5.5b Calls to USA, Competitor

		2002	2003	2004	2005	2006	2007	2008
Belgium	Telenet	1.388	1.938	1.938	1.977	1.977	2.017	2.017
Bulgaria	Orbitel						0.920	0.920
Czech	České Radiokomunik			1.609	1.650	0.910	1.084	1.084
Denmark	Tele2	2.384	2.384	2.367	2.367	2.367	2.367	2.367
Germany	Arcor	1.227	1.227	1.227	1.227	1.227	1.500	1.500
Estonia	Starman		1.913	1.913	1.818	1.818	1.288	1.301
Greece	Tellas	2.348	2.183	2.183	2.094	2.094	1.964	1.960
Spain	Ono	3.834	1.460	1.462	1.462	1.355	1.356	1.356
France	NeufCegetel	0.945	0.945	0.706	0.706	0.620	0.620	0.620
Ireland	BT	1.905	1.200	0.800	1.200	0.799	0.799	0.848
Italy	Wind		2.329	2.330	2.330	1.546	1.546	1.546
Cyprus	CallSat			0.727	0.727	0.727	0.550	0.478
Latvia	Telecom Baltija			2.950	2.802	1.491	0.983	0.688
Lithuania	Eurocom *			3.375	1.478	1.478	1.478	3.766
Luxembourg	Tele2	1.110	1.110	1.110	0.950	0.950	0.950	0.950
Hungary	Tele2		3.494	3.542	1.363	1.285	1.308	1.308
Malta								
Netherlands	Pretium		0.550	0.550	0.460	0.460	0.445	0.445
Austria	Tele2	1.380	1.380	1.380	0.990	0.990	1.790	0.990
Poland	Tele2	11.780	11.780	3.575	3.575	2.746	1.895	1.842
Portugal	Novo Optimus	2.131	2.131	1.831	3.023	3.023	3.114	3.088
Romania	RCS&RDS						0.986	0.952
Slovakia	GTS Nextra				1.482	1.170	1.170	1.170
Slovenia	T-2			1.302	1.085	1.085	0.400	0.400
Finland	Elisa	3.180	3.180	3.180	3.180	3.180	3.120	3.120
Sweden	Tele2	0.948	0.931	0.976	0.976	0.976	1.000	1.000
UK	Virgin	1.332	1.333	1.333	1.333	1.333	1.346	1.709
EU27 Weighted		2.773	2.405	1.671	1.627	1.406	1.371	1.411

Notes:

All charges are in Euro, including VAT

Call duration is 10 minutes, and any call setup is included

Table 5.6a Calls to Japan, Incumbent

		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	Belgacom	11.998	11.899	11.899	4.934	4.933	5.094	5.202	5.202	5.202	5.306	5.412
Bulgaria	BTC			11.286	9.201	5.152	4.416	4.416	4.416	4.416	3.680	3.680
Czech	Telefónica					7.859	7.859	7.029	4.715	4.676	4.678	4.678
Denmark	TDC	13.445	11.767	11.767	9.434	9.434	9.098	9.098	9.098	9.098	9.095	9.095
Germany	Telekom	11.113	11.023	11.023	7.976	7.970	7.900	7.900	7.900	7.900	8.110	0.490
Estonia	Elion			22.366	15.957	15.957	15.957	15.988	15.985	5.104	5.104	3.828
Greece	OTE	9.350	9.350	4.848	2.909	2.950	2.950	2.908	2.933	2.933	2.933	2.933
Spain	Telefonica	12.974	12.131	12.131	12.131	11.018	8.189	7.678	5.638	6.518	6.518	6.554
France	Telecom	8.984	6.858	7.750	7.750	4.951	4.951	4.978	4.979	5.020	5.020	5.020
Ireland	Eircom	12.317	8.578	8.578	8.578	8.578	8.576	8.576	8.576	8.576	8.576	8.636
Italy	Telecom	12.580	9.952	8.986	8.986	8.957	8.781	8.781	8.781	8.781	8.781	8.781
Cyprus	CYTA			7.859	7.859	6.877	4.323	2.346	0.802	0.802	0.841	0.798
Latvia	Lattелеkom			5.735	5.735	5.763	5.763	5.752	5.752	5.752	5.752	5.752
Lithuania	TEO LT			28.683	28.683	22.278	22.278	22.318	22.318	22.318	22.318	22.318
Luxembourg	P&T	12.198	6.842	3.934	2.429	2.429	2.429	1.365	1.365	1.365	1.365	1.365
Hungary	Magyar Telekom			4.620	4.620	4.639	6.368	6.368	6.368	6.113	6.113	6.113
Malta	Go						24.850	19.880	20.004	19.875	20.128	20.378
Netherlands	KPN	7.297	6.390	4.359	3.165	3.377	3.497	3.497	3.498	3.498	3.531	3.592
Austria	Telekom	12.790	13.517	9.593	4.317	3.770	3.770	3.600	3.600	3.600	3.694	3.694
Poland	Telecom			21.278	21.278	21.278	21.278	7.149	7.228	7.200	7.200	7.144
Portugal	Telecom	13.604	12.407	12.314	12.153	12.480	12.480	12.480	12.690	12.690	12.690	12.585
Romania	RomTelecom			9.707	11.319	8.502	8.502	4.879	4.403	4.403	4.403	4.165
Slovakia	Slovak Telecom			11.040	11.040	7.580	7.580	4.681	4.681	3.862	3.862	4.603
Slovenia	Telekom				8.567	6.760	6.760	6.760	5.709	5.709	5.708	5.708
Finland	TeliaSonera	14.158	14.064	14.088	7.351	7.337	5.637	5.571	5.700	5.700	5.579	5.579
Sweden	Telia	10.155	10.155	3.586	3.586	3.586	3.586	3.232	3.232	3.232	3.232	3.232
UK	BT	9.772	9.772	9.772	8.561	8.561	8.561	5.331	1.269	1.269	1.346	1.530
USA	Verizon	#N/A	2.763	1.381	1.381	1.381	1.468	0.863	0.863	0.950	0.950	0.863
Japan	NTT	#N/A	#N/A	#N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EU27 Weighted		10.980	9.992	10.558	9.471	8.704	8.432	6.687	5.939	5.978	6.014	4.774

Table 5.6b Calls to Japan, Competitor

		2002	2003	2004	2005	2006	2007	2008
Belgium	Telenet	3.966	5.101	5.100	5.202	5.202	5.306	5.306
Bulgaria	Orbitel						2.045	2.045
Czech	České Radiokomunikace			4.033	4.033	3.226	1.576	1.576
Denmark	Tele2	9.031	9.031	9.031	9.031	9.031	9.027	9.027
Germany	Arcor	7.976	7.976	7.976	7.976	7.976	5.035	5.035
Estonia	Starman		11.518	11.518	10.880	14.039	10.222	10.235
Greece	Tellas	2.348	2.183	2.183	2.094	2.094	1.964	1.960
Spain	Ono	9.552	7.794	7.795	7.795	7.619	7.620	7.620
France	NeufCegetel	3.263	3.263	2.965	2.965	2.120	2.120	2.120
Ireland	BT	8.578	5.499	5.500	5.500	5.499	5.499	1.349
Italy	Wind		7.905	7.905	7.905	3.296	3.296	3.296
Cyprus	CallSat			1.768	1.768	1.768	0.707	0.615
Latvia	Telecom Baltija			2.950	2.802	1.491	0.983	0.688
Lithuania	Eurocom *			14.585	14.585	14.585	14.585	13.032
Luxembourg	Tele2	1.110	1.110	1.110	0.950	0.950	0.950	0.950
Hungary	Tele2		7.729	3.638	3.288	3.095	3.156	3.156
Malta								
Netherlands	Pretium		2.810	2.810	2.450	2.450	1.745	1.745
Austria	Tele2	3.490	3.490	3.490	4.360	4.360	3.496	3.990
Poland	Tele2	21.142	21.142	4.051	4.051	4.051	5.160	5.107
Portugal	Novo Optimus	6.184	6.184	7.313	12.312	12.312	12.690	12.585
Romania	RCS&RDS						1.445	1.445
Slovakia	GTS Nextra				3.082	3.082	3.081	3.081
Slovenia	T-2			4.407	1.085	1.085	0.419	0.422
Finland	Elisa	6.880	6.880	5.680	5.680	5.680	5.620	5.620
Sweden	Tele2	3.490	3.490	3.181	3.181	3.181	3.205	3.205
UK	Virgin	6.409	6.410	6.410	6.410	6.410	7.565	7.003
EU27 Weighted		7.899	7.532	5.927	5.986	5.247	4.693	4.577

Notes:

All charges are in Euro, including VAT

Call duration is 10 minutes, and any call setup is included

5.2. Individual country graphs

The graphs below show the situation from each individual country, with calls using incumbent and competing operators..

Figure 5.1 Calls from Belgium

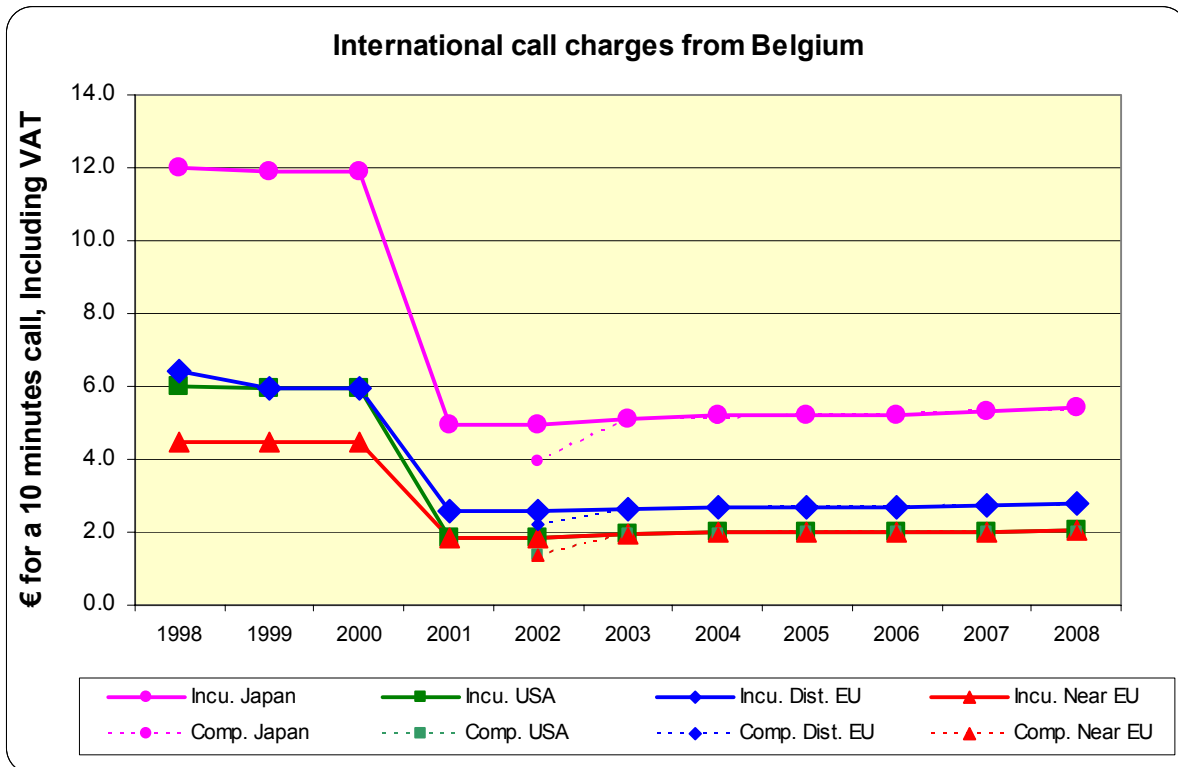


Figure 5.2 Calls from Bulgaria

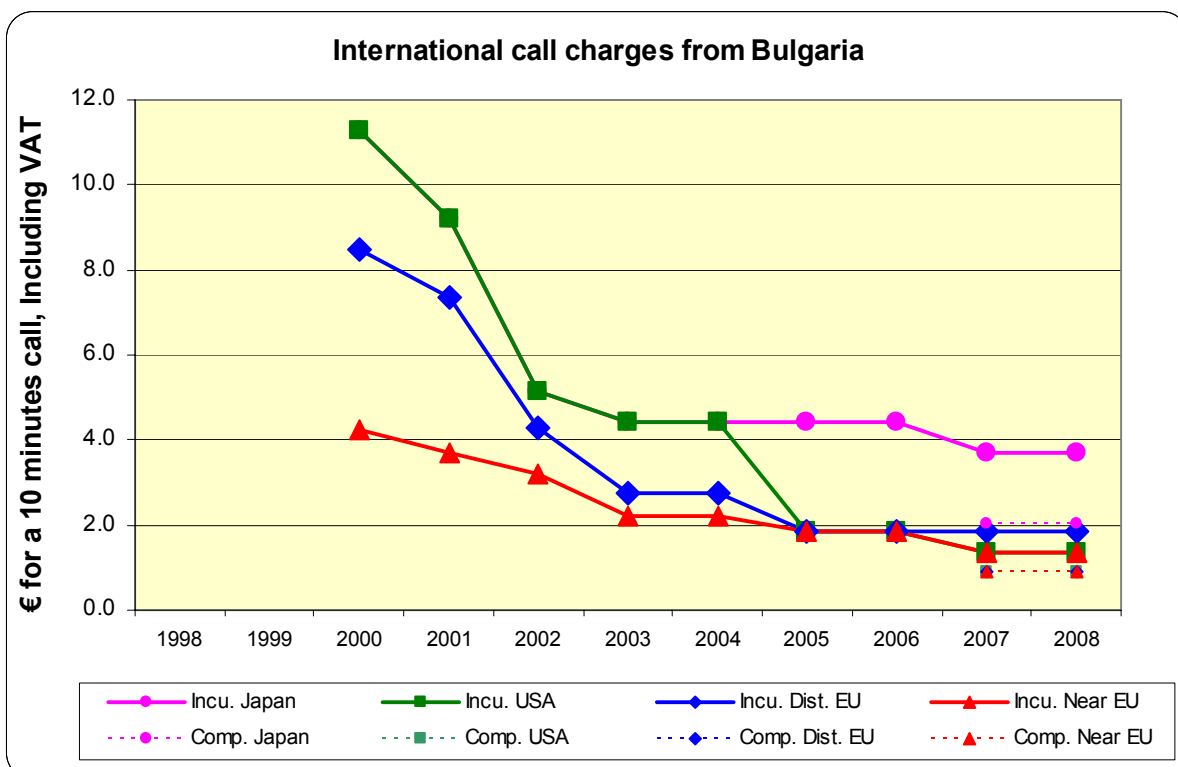


Figure 5.3 Calls from Czech Republic

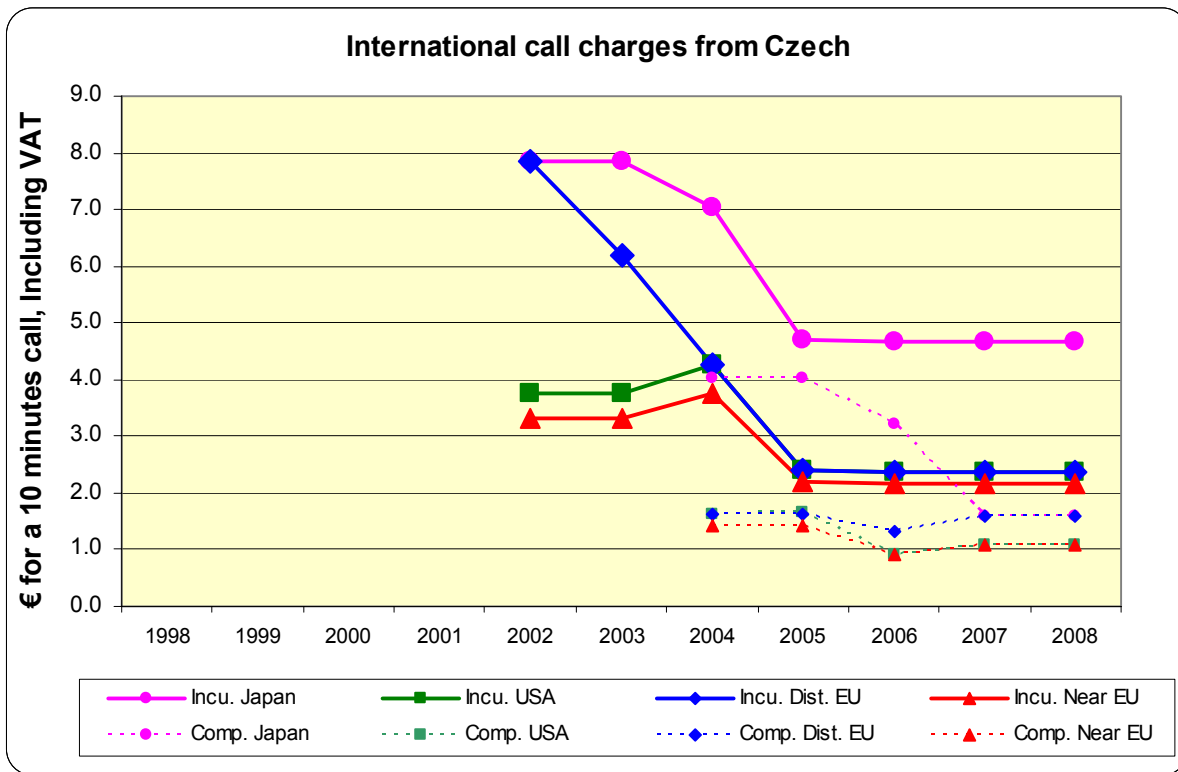


Figure 5.4 Calls from Denmark

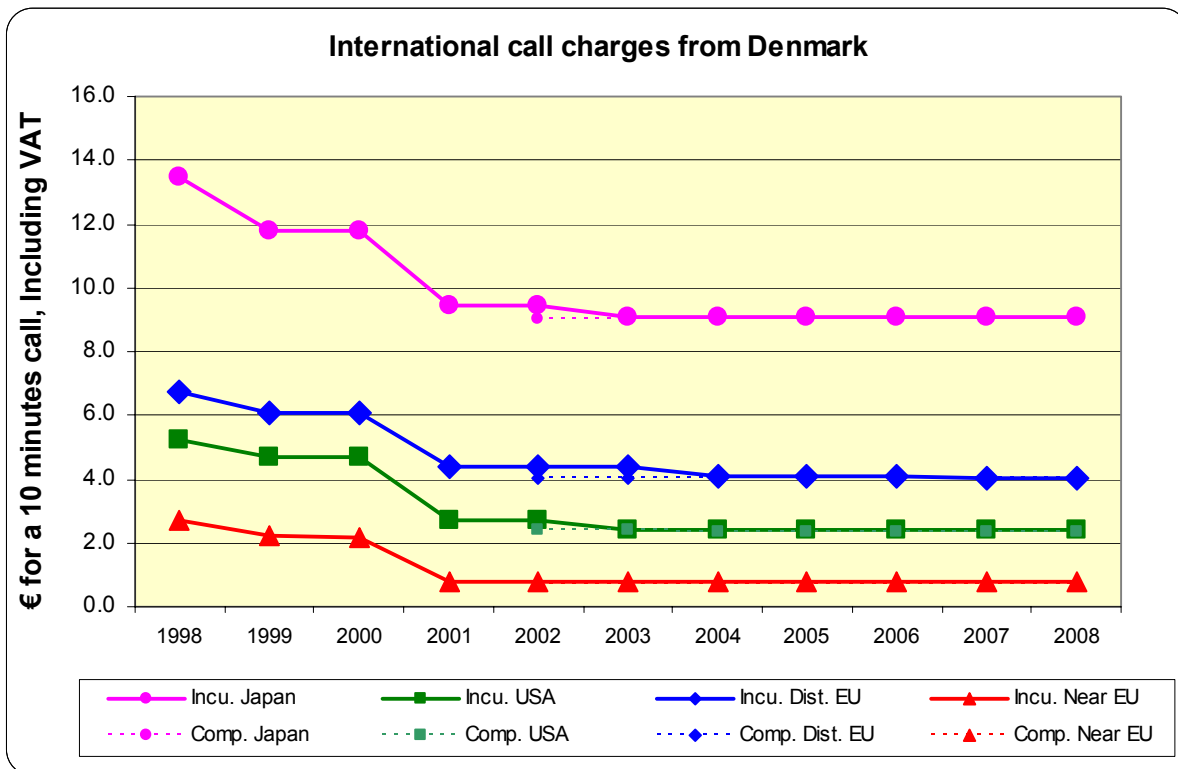


Figure 5.5 Calls from Germany

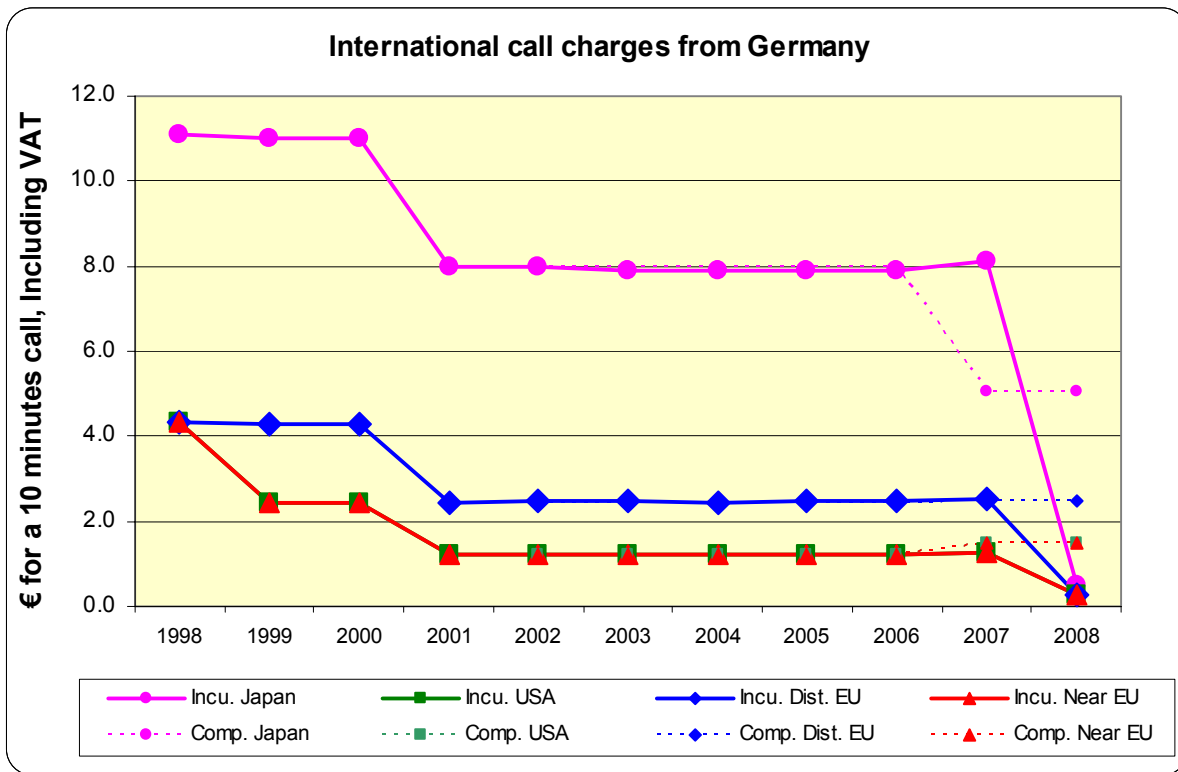


Figure 5.6 Calls from Estonia

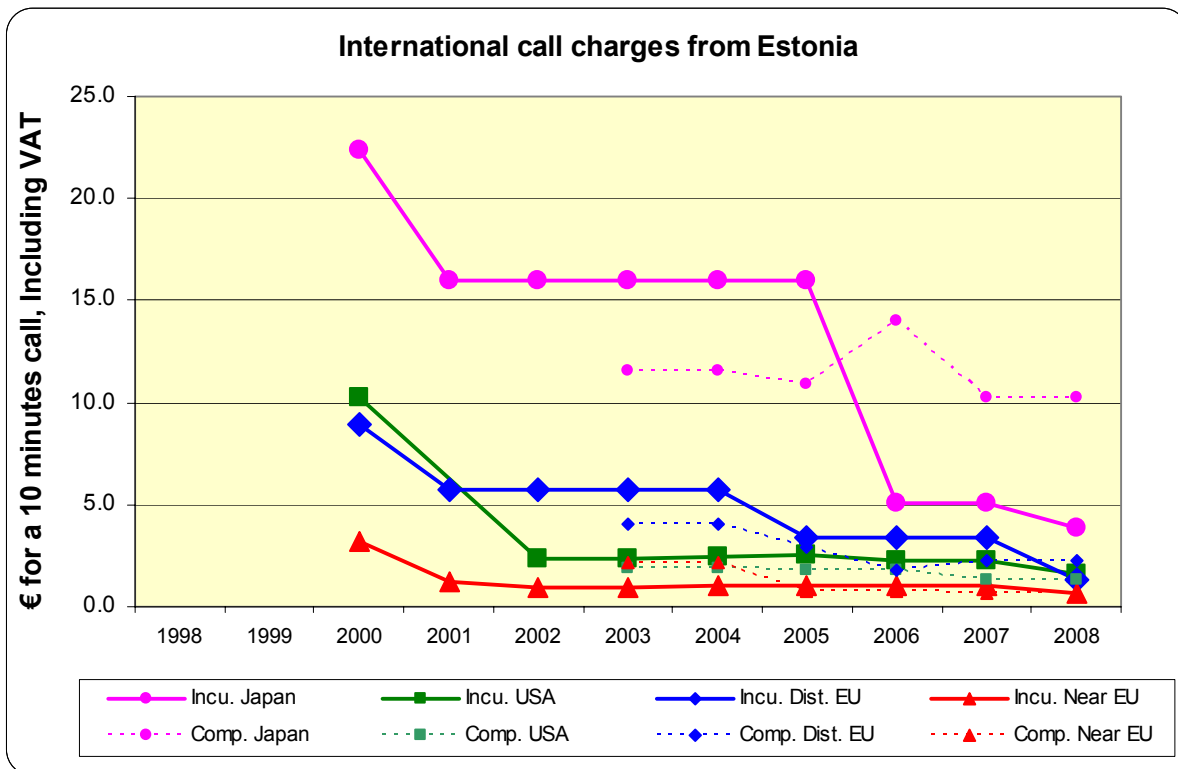


Figure 5.7 Calls from Greece

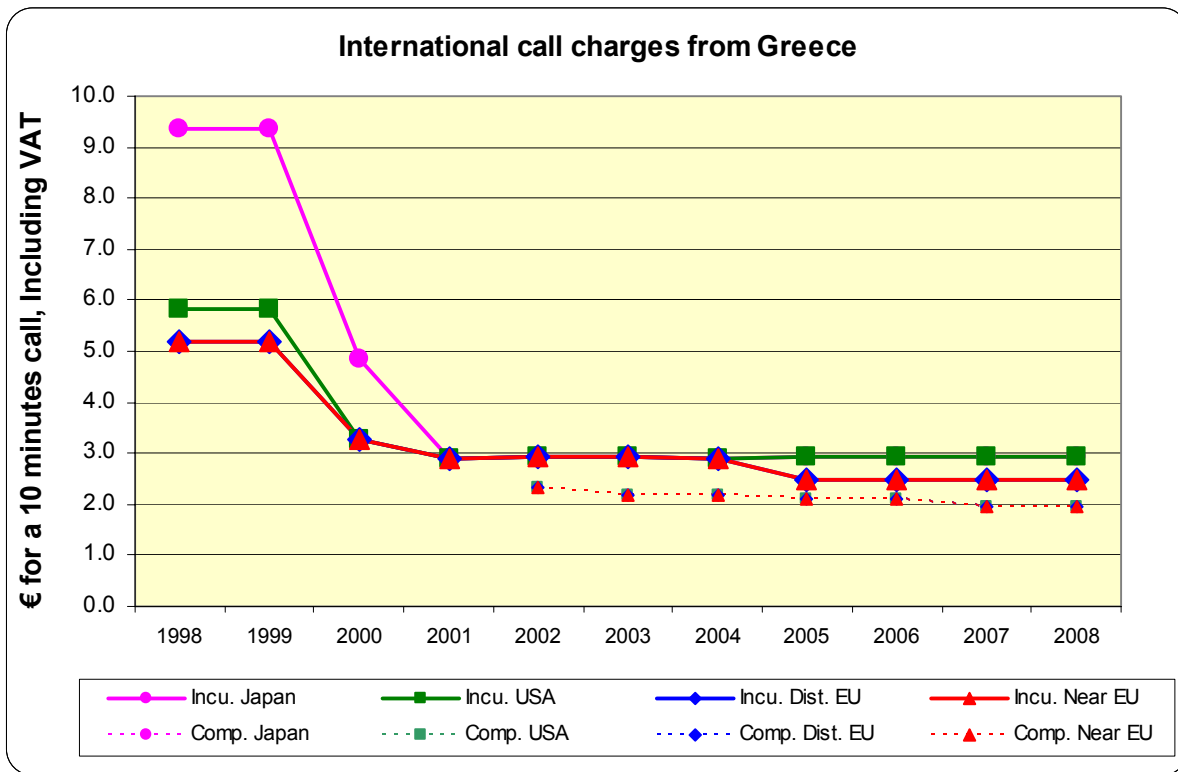


Figure 5.8 Calls from Spain

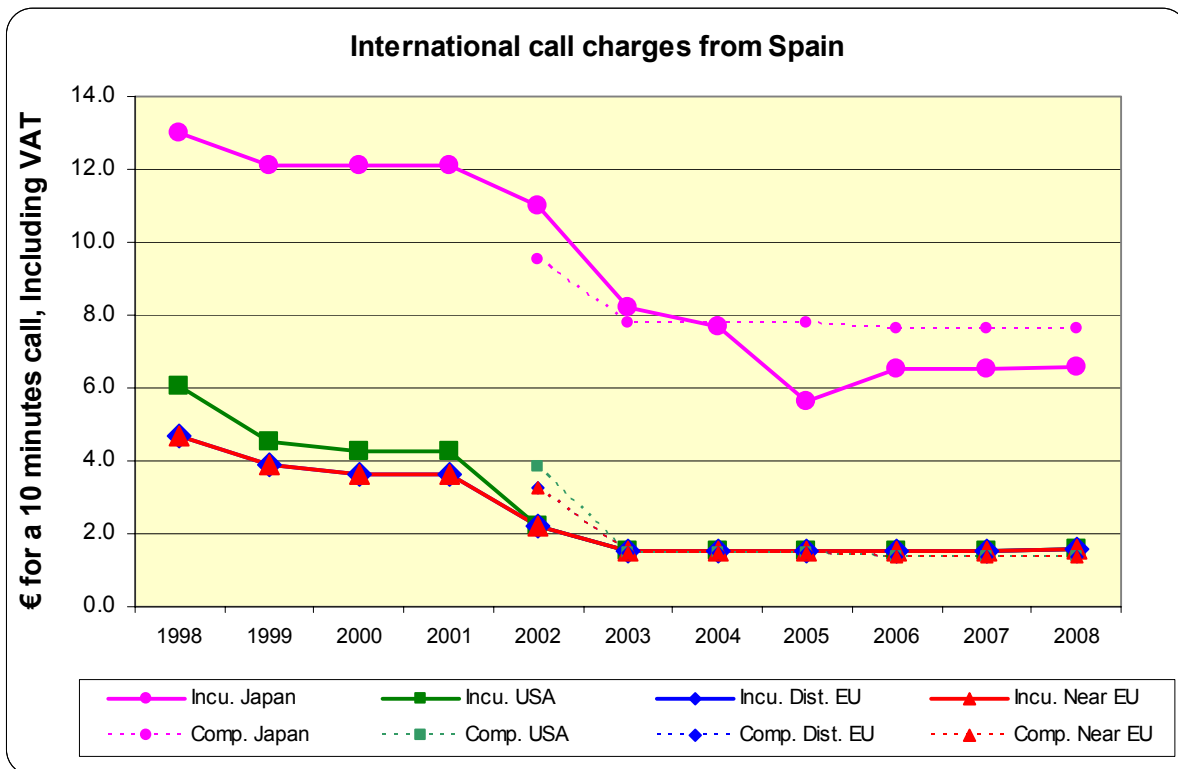


Figure 5.9 Calls from France

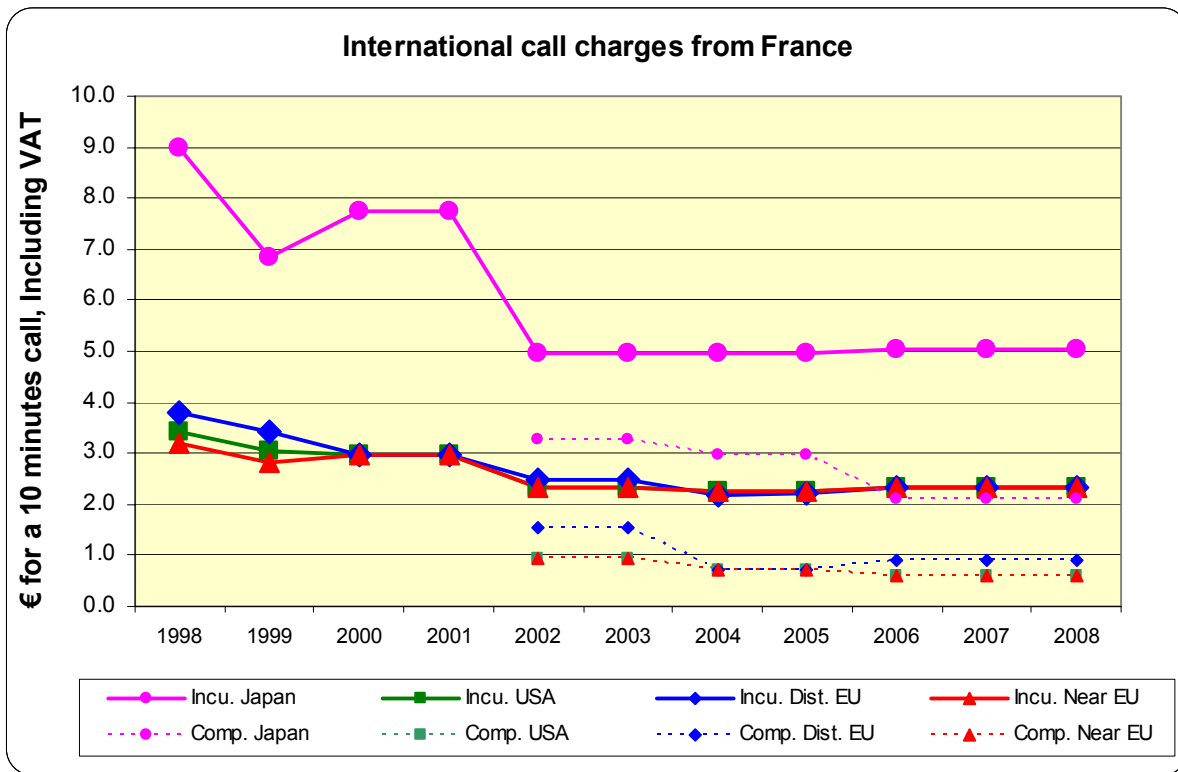


Figure 5.10 Calls from Ireland

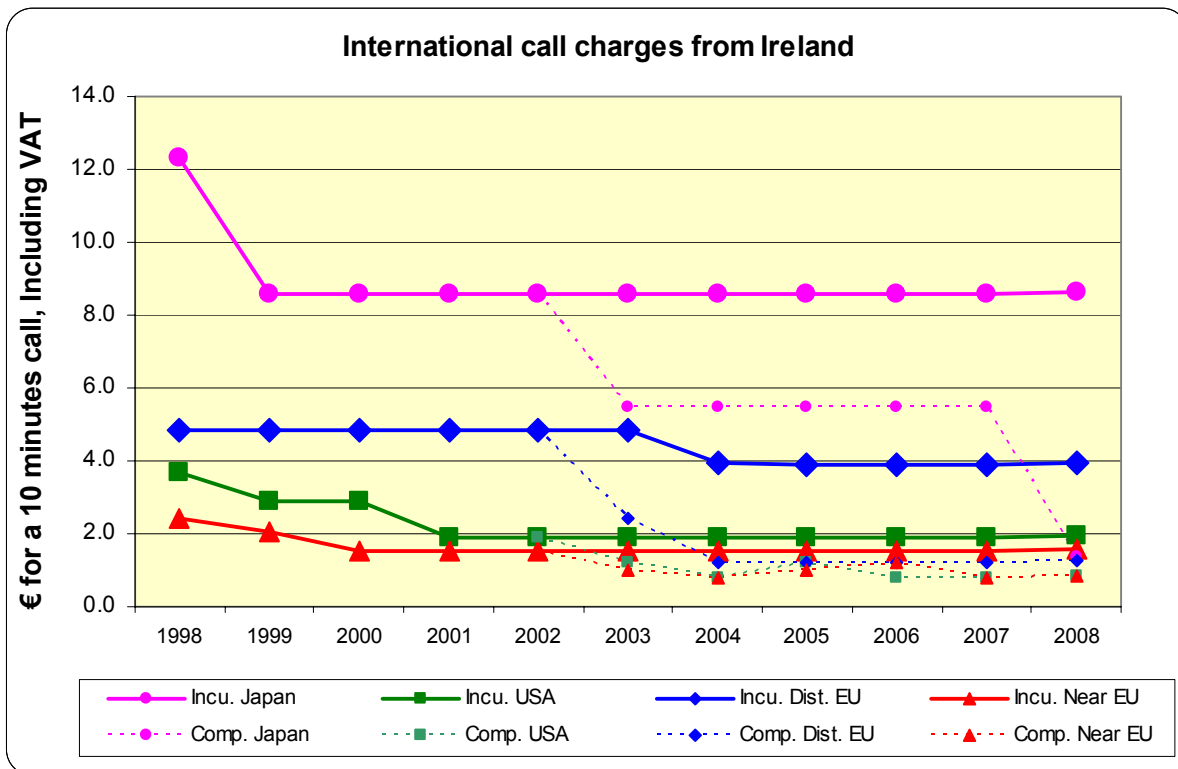


Figure 5.11 Calls from Italy

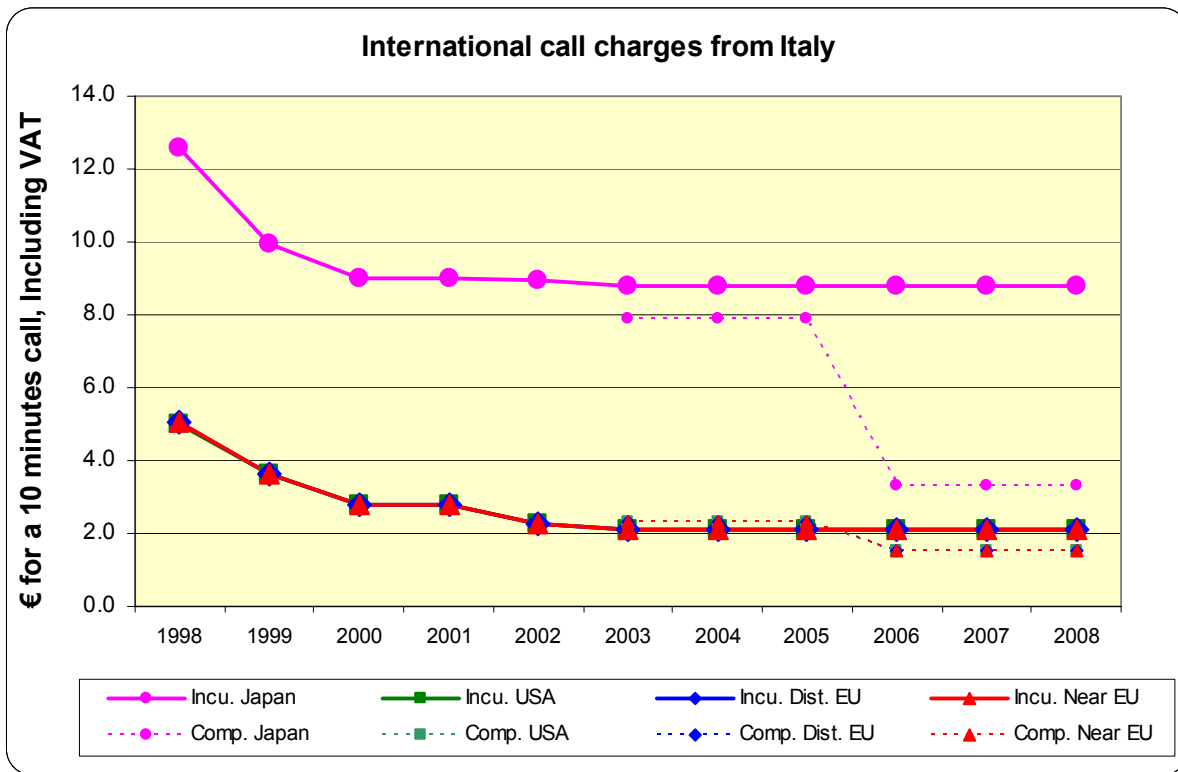


Figure 5.12 Calls from Cyprus

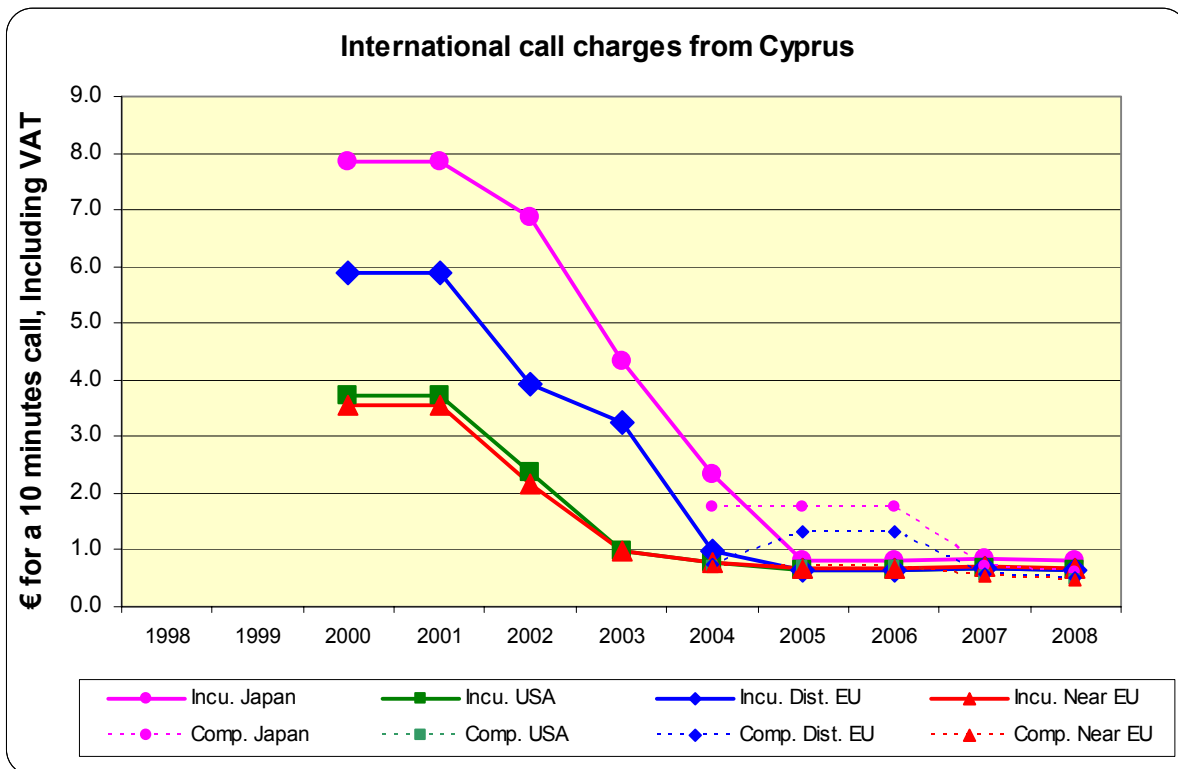


Figure 5.13 Calls from Latvia

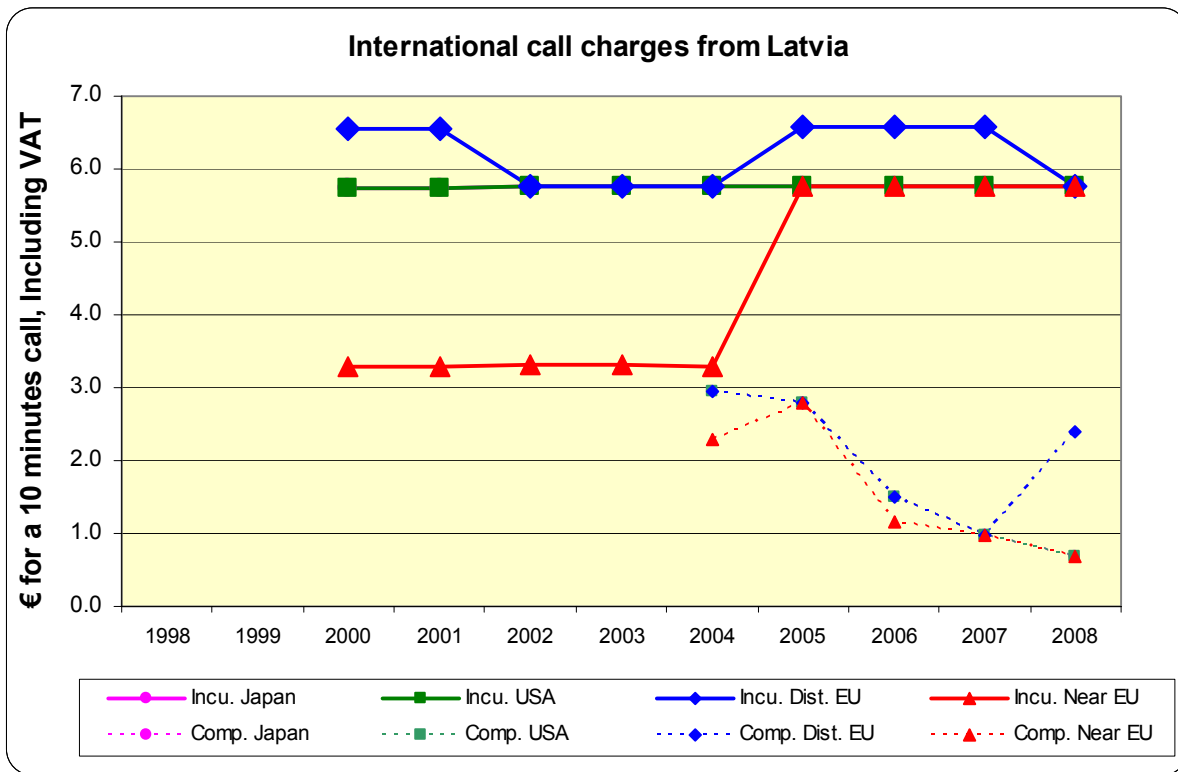


Figure 5.14 Calls from Lithuania

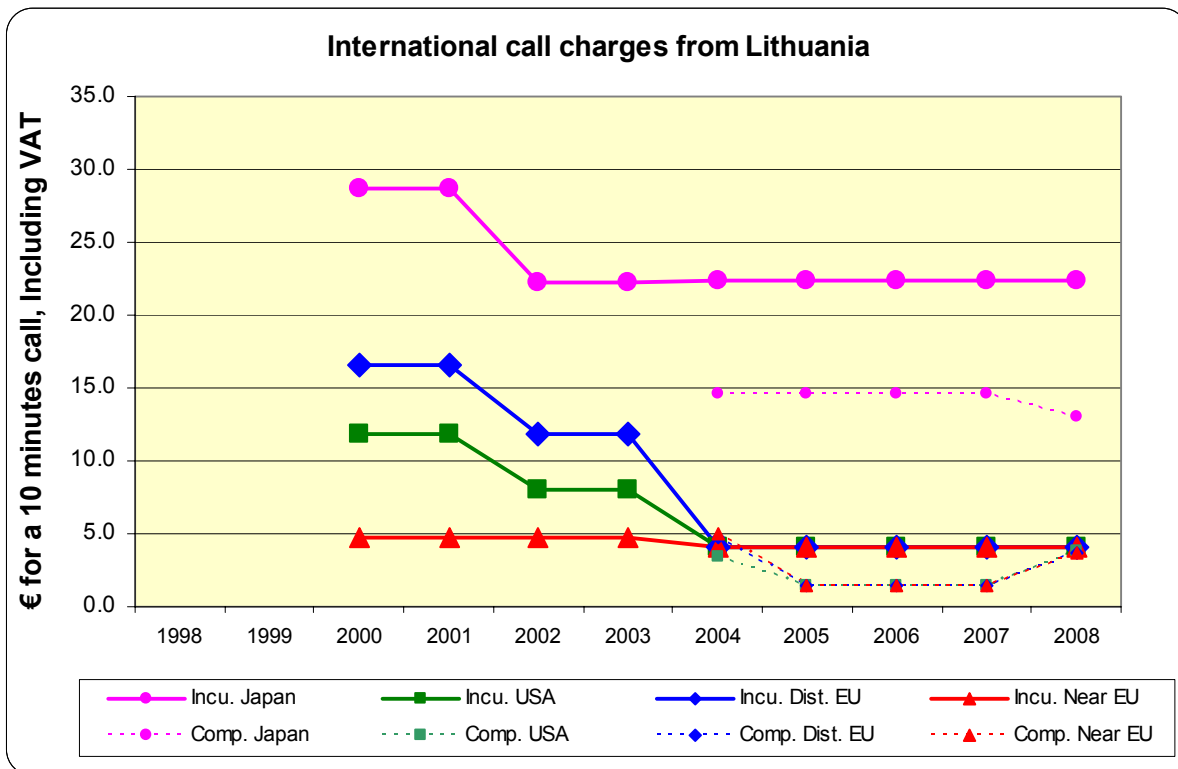


Figure 5.15 Calls from Luxembourg

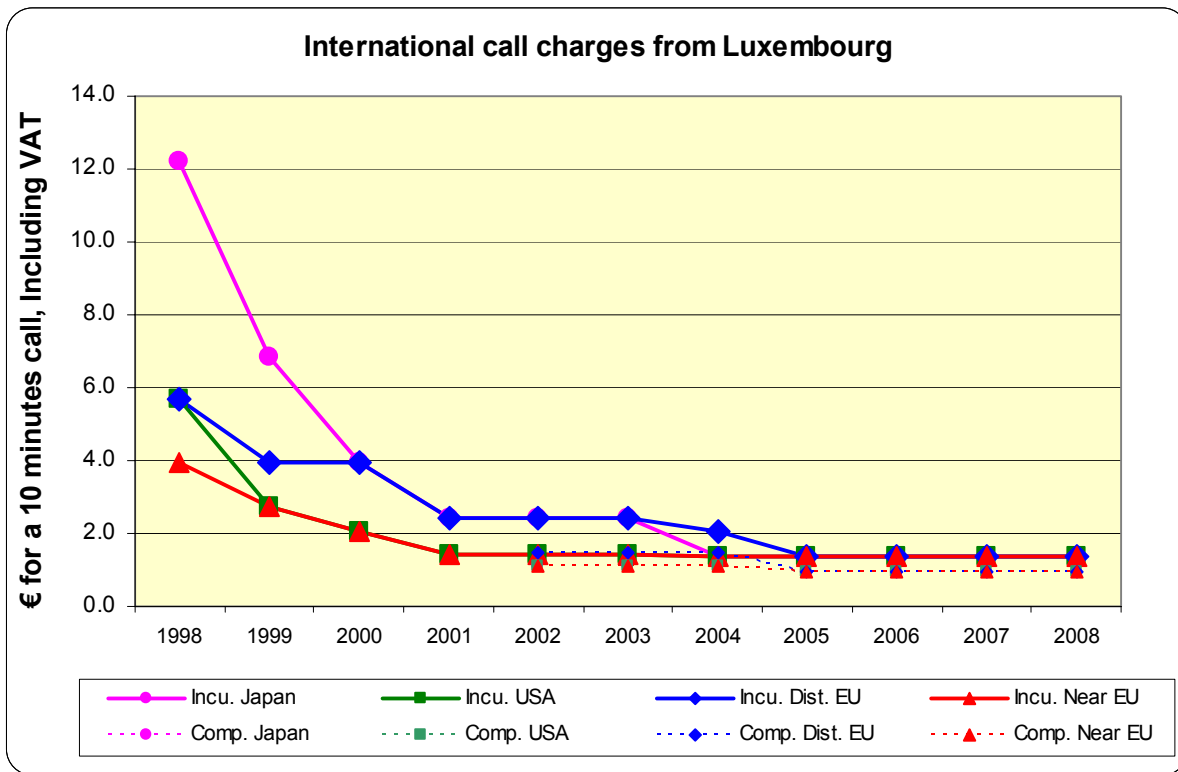


Figure 5.16 Calls from Hungary

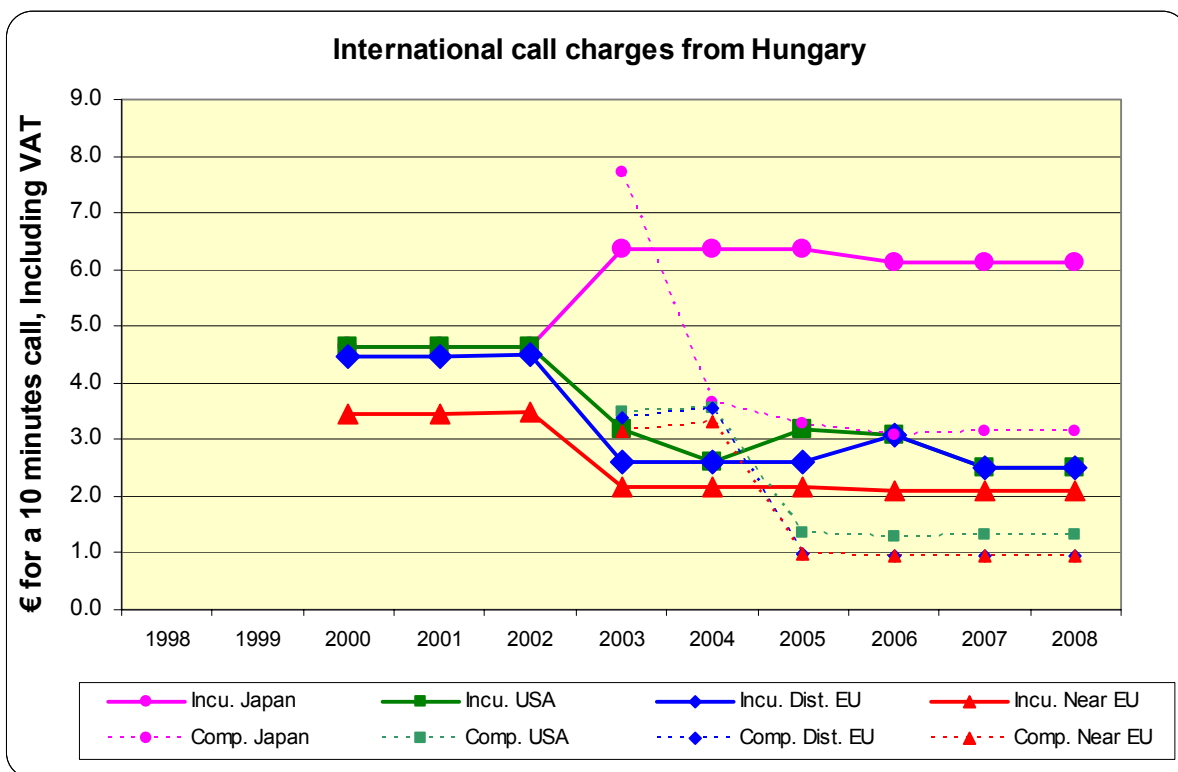


Figure 5.17 Calls from Malta

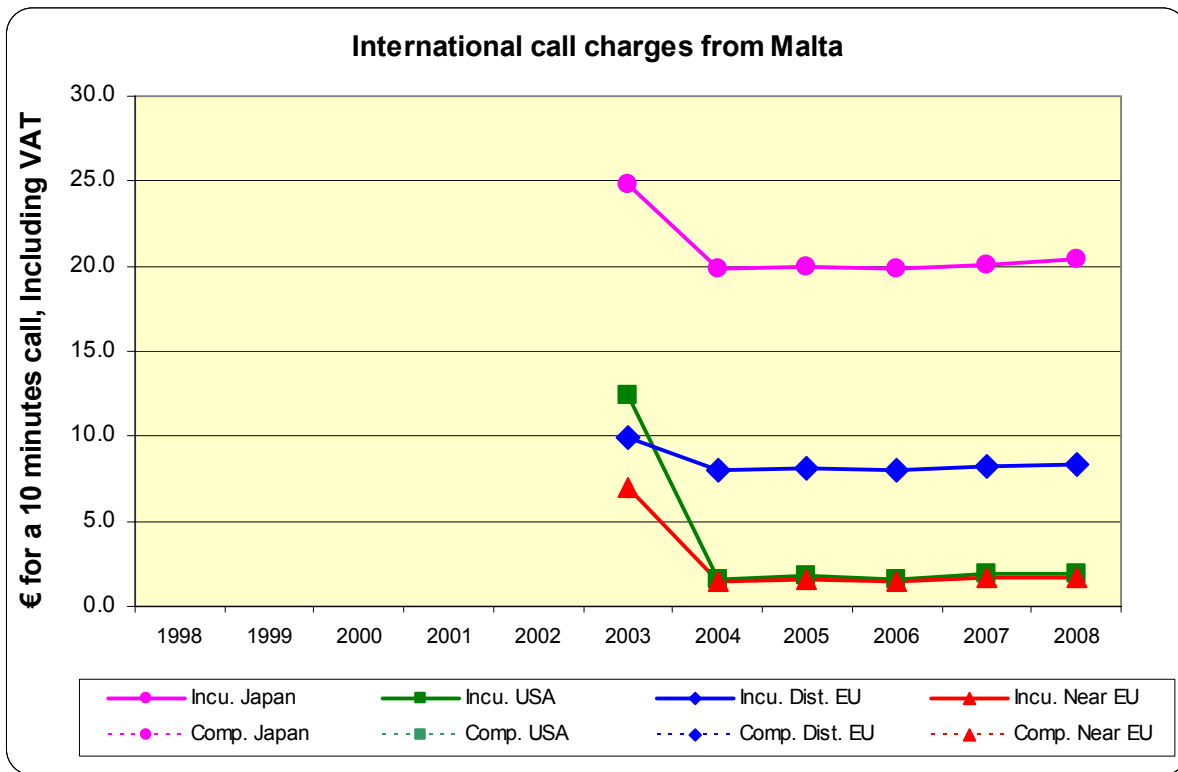


Figure 5.18 Calls from Netherlands

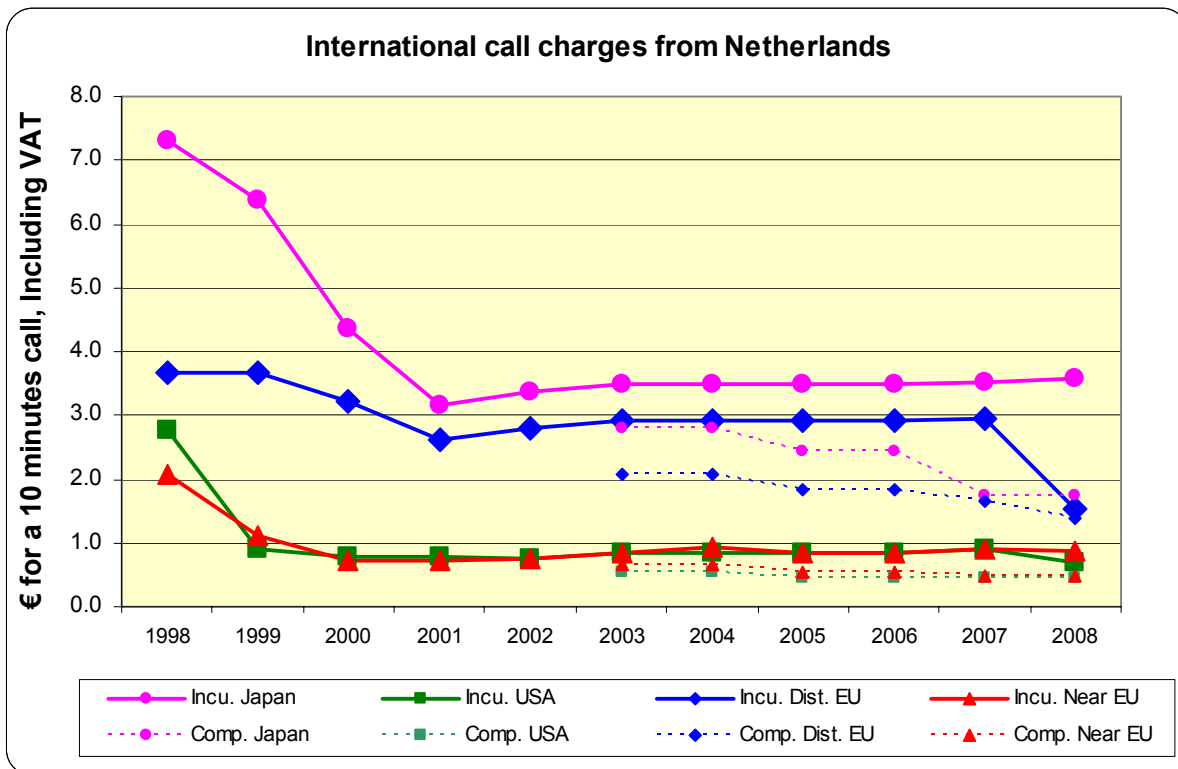


Figure 5.19 Calls from Austria

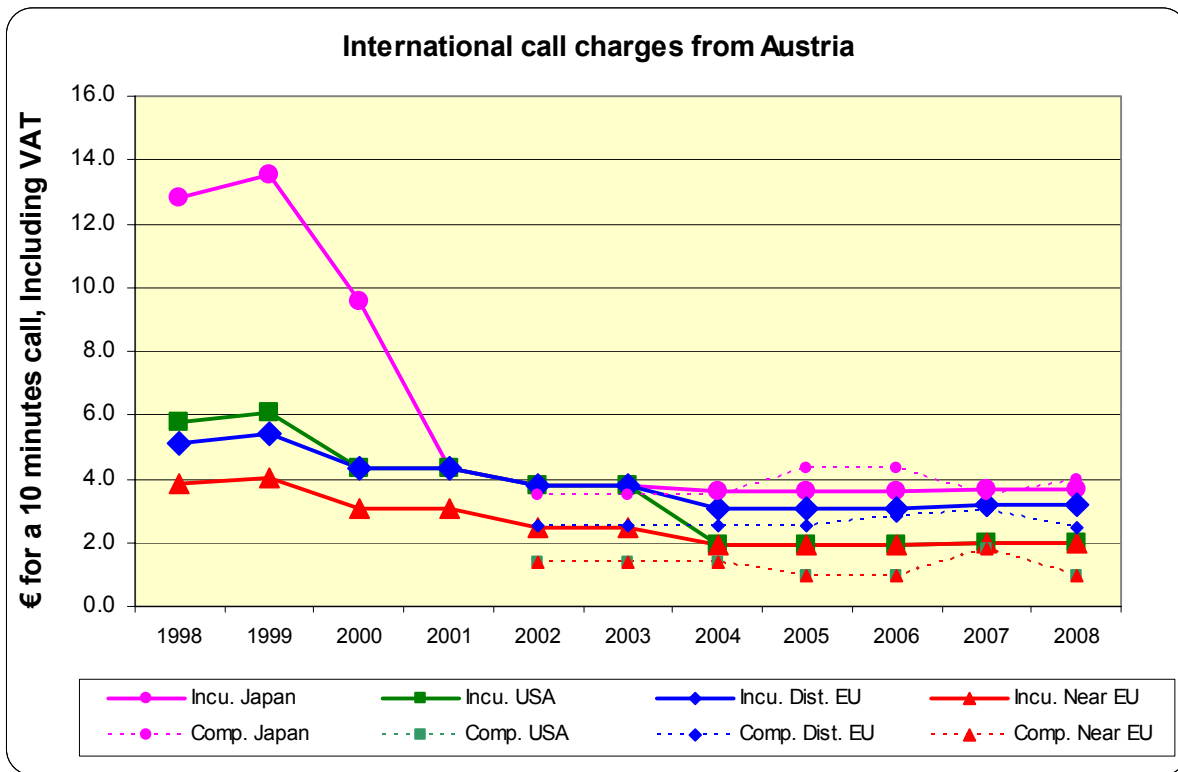


Figure 5.20 Calls from Poland

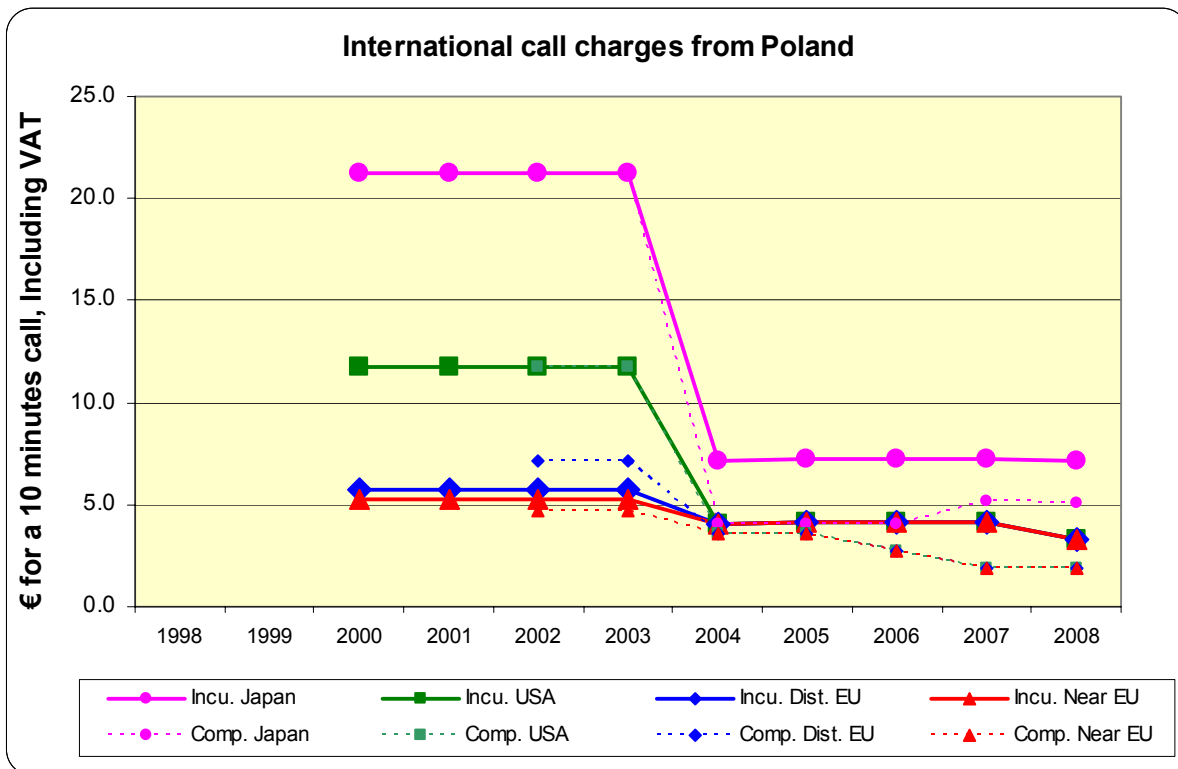


Figure 5.21 Calls from Portugal

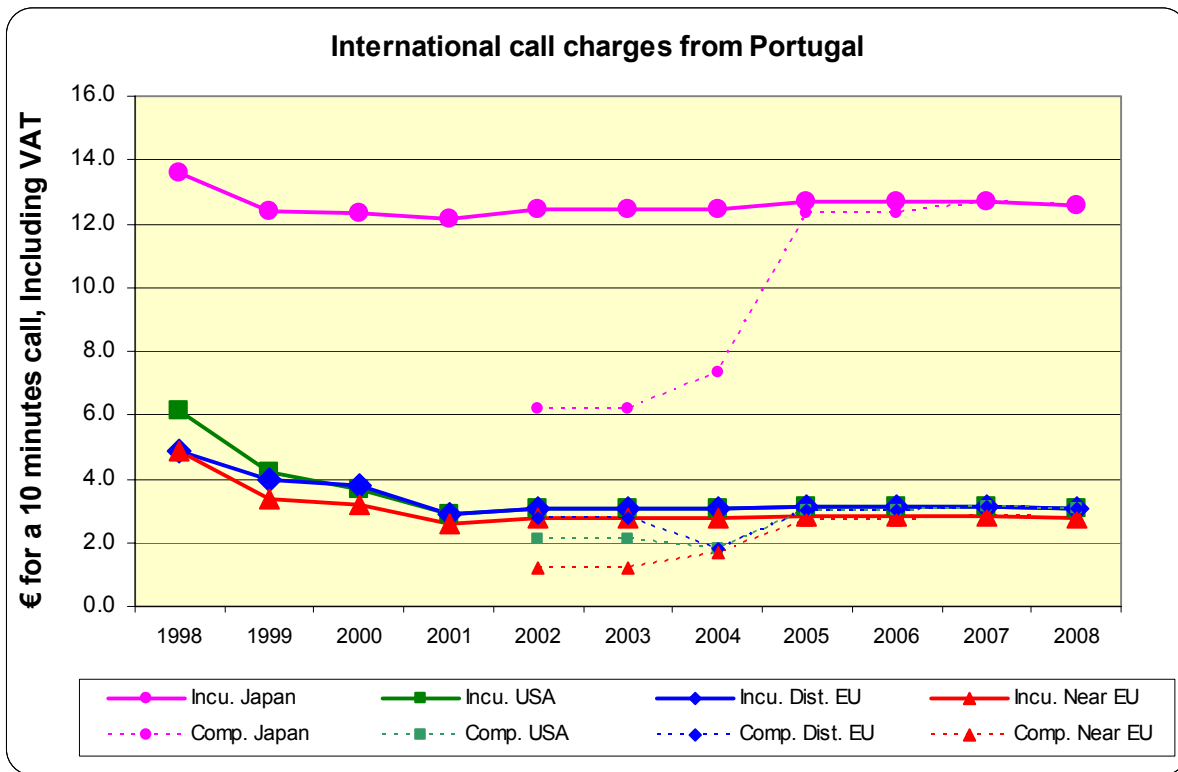


Figure 5.22 Calls from Romania

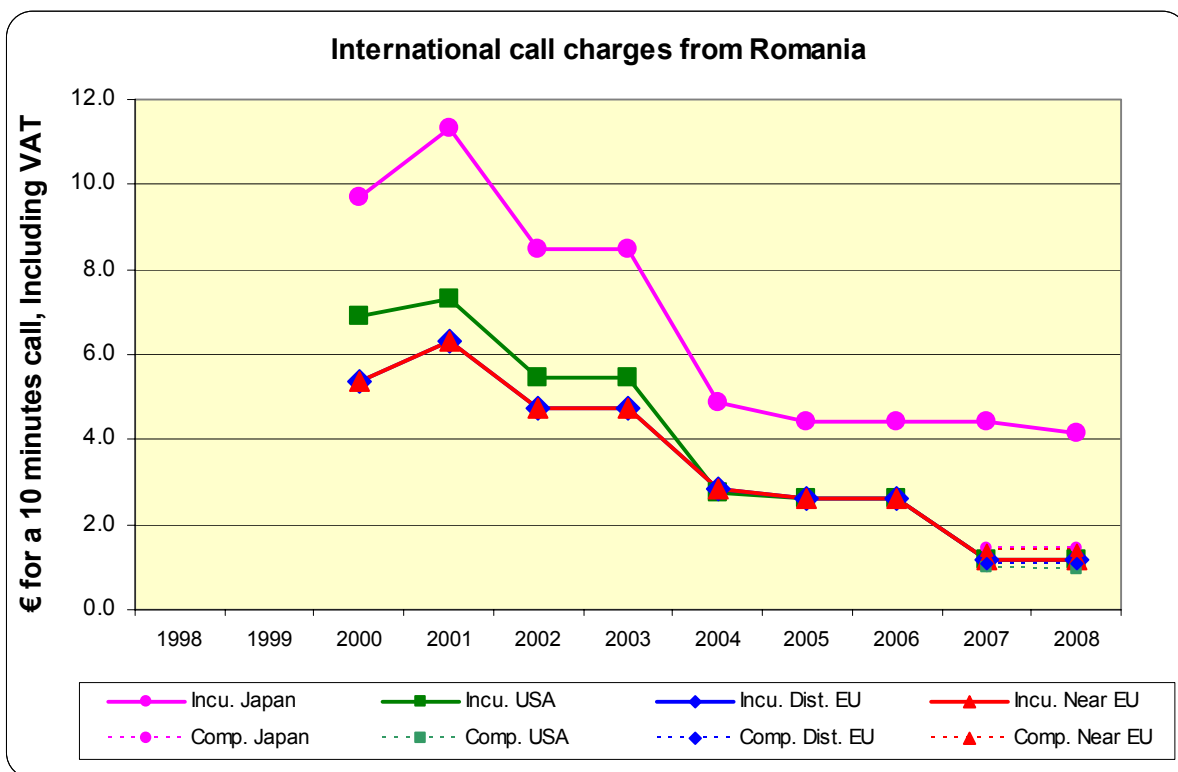


Figure 5.23 Calls from Slovak Republic

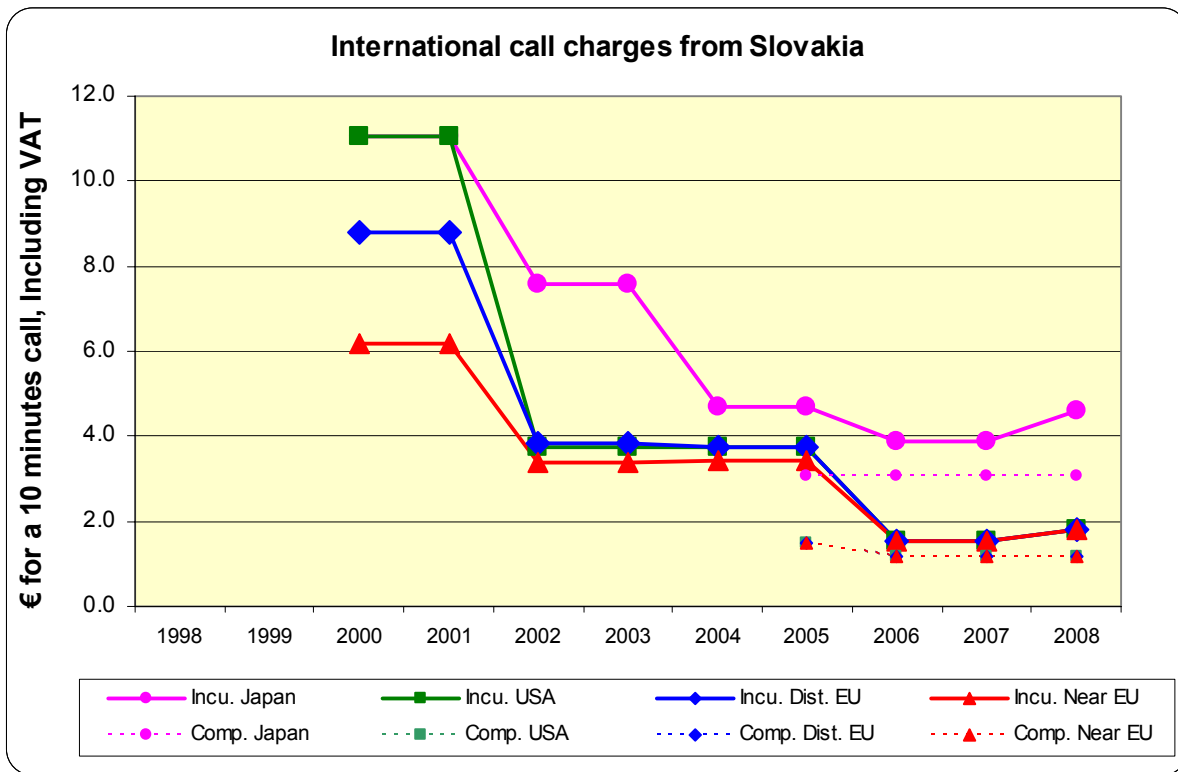
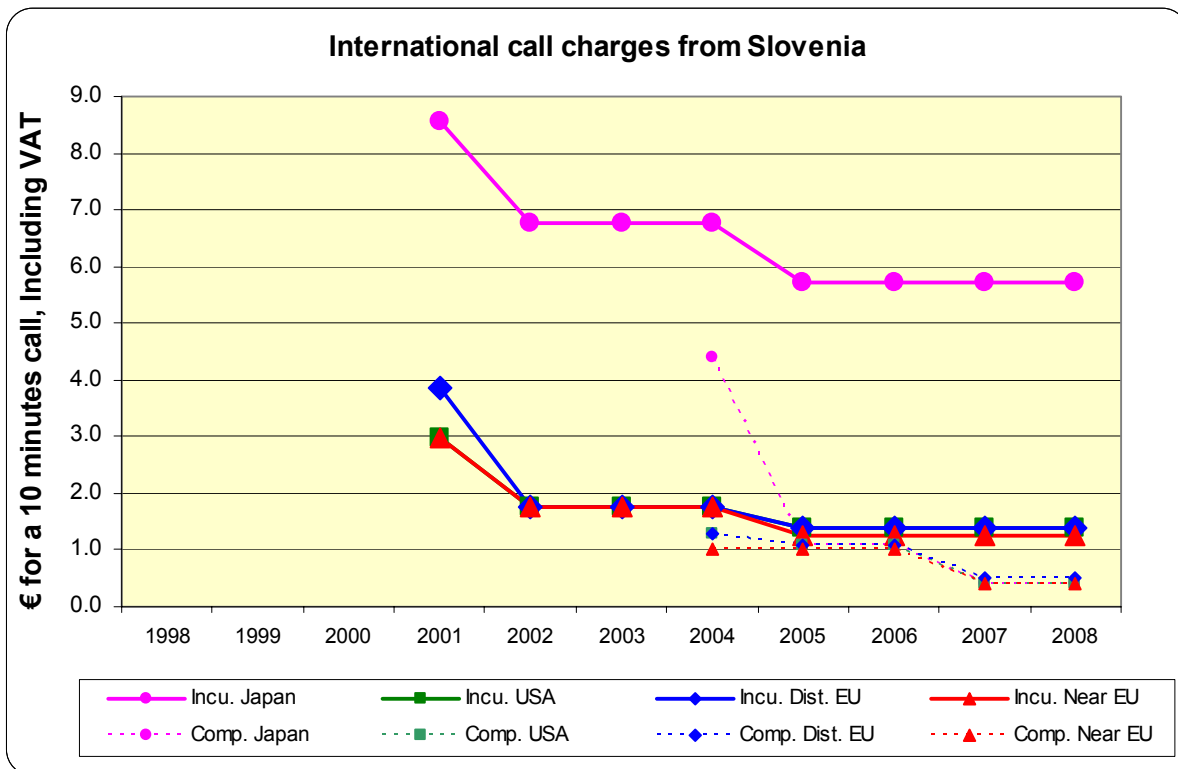


Figure 5.24 Calls from Slovenia



Second operator changed from Voljatelj to T-2 in 2007.

Figure 5.25 Calls from Finland

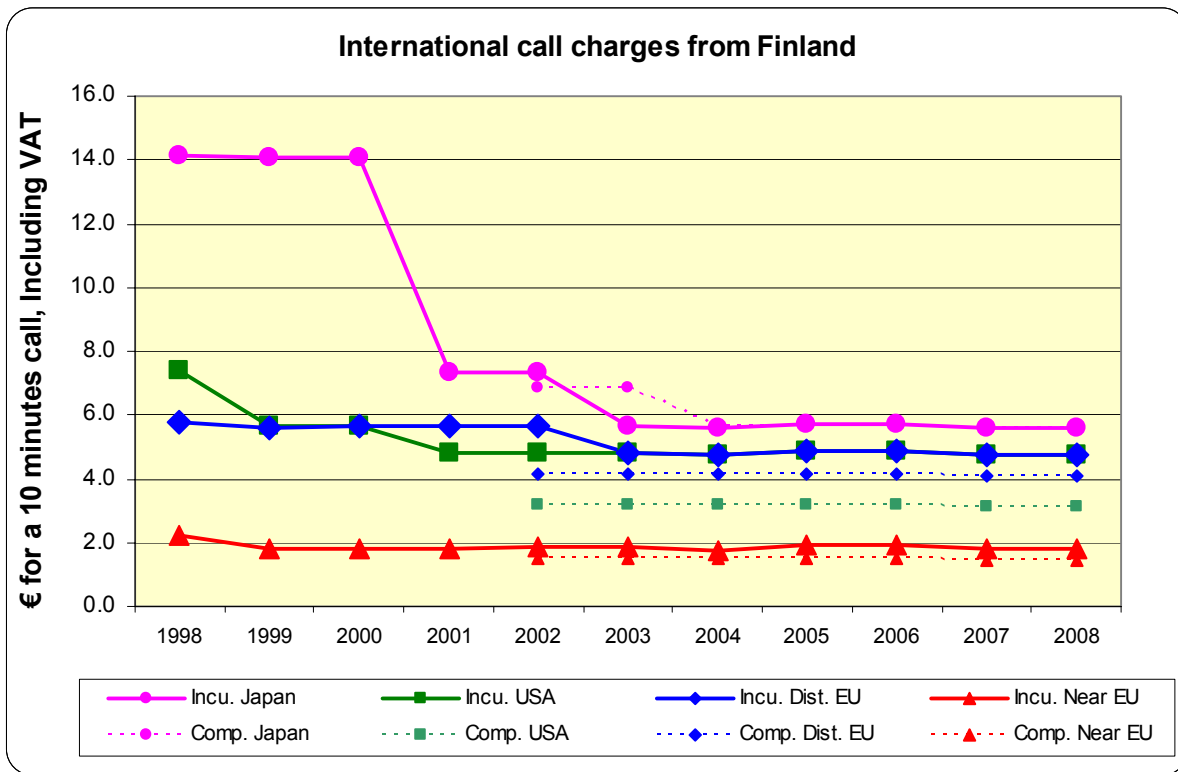


Figure 5.26 Calls from Sweden

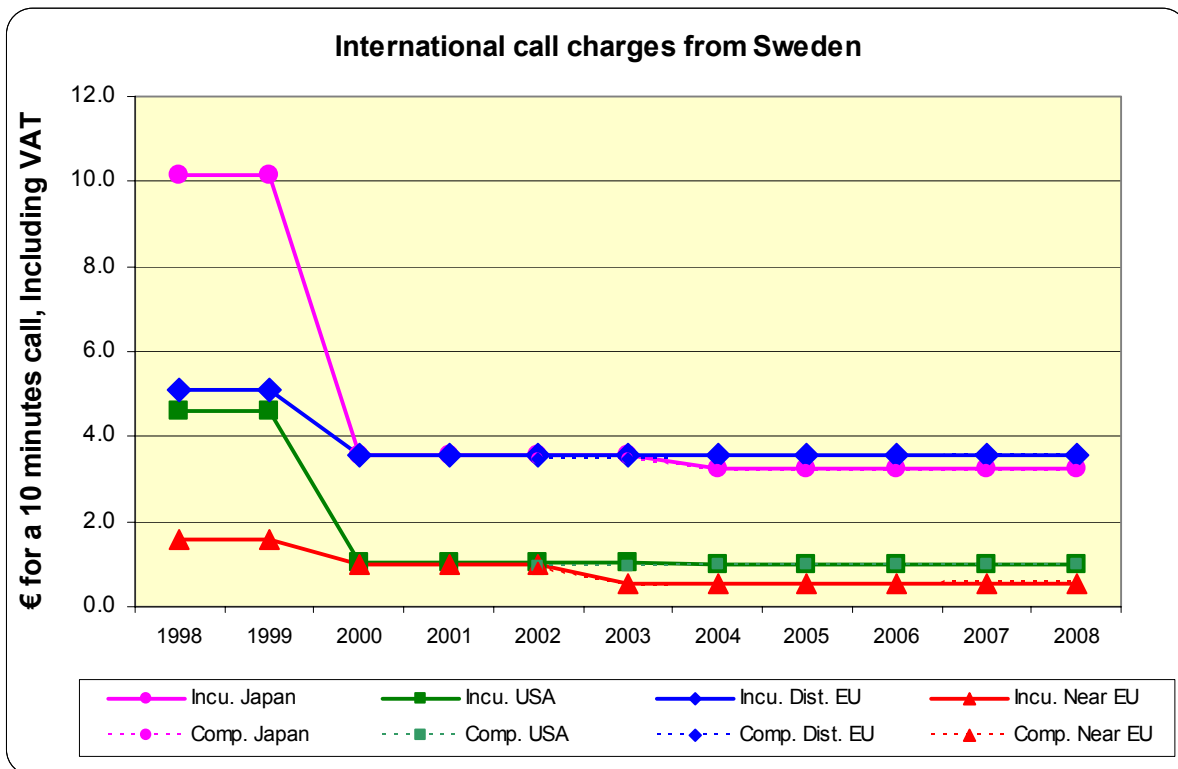
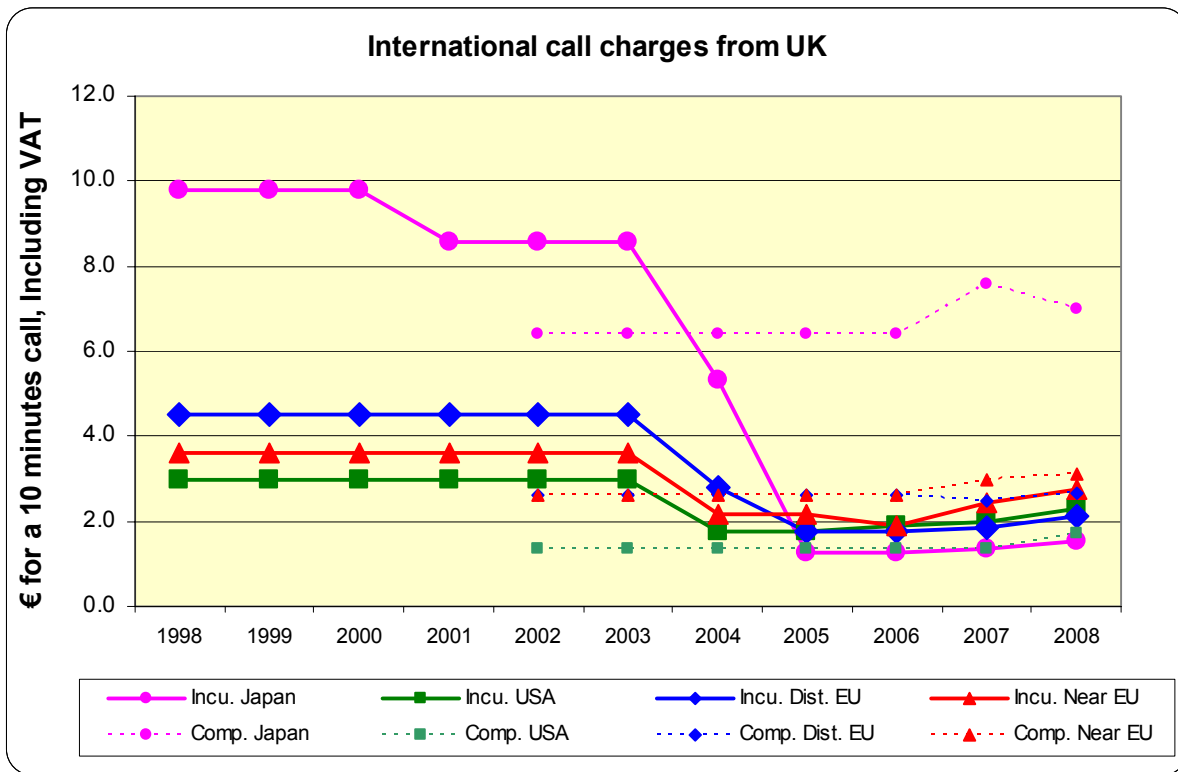


Figure 5.27 Calls from United Kingdom



Note: BT Together Option 1 is used from 2004

Figure 5.28 Calls from USA

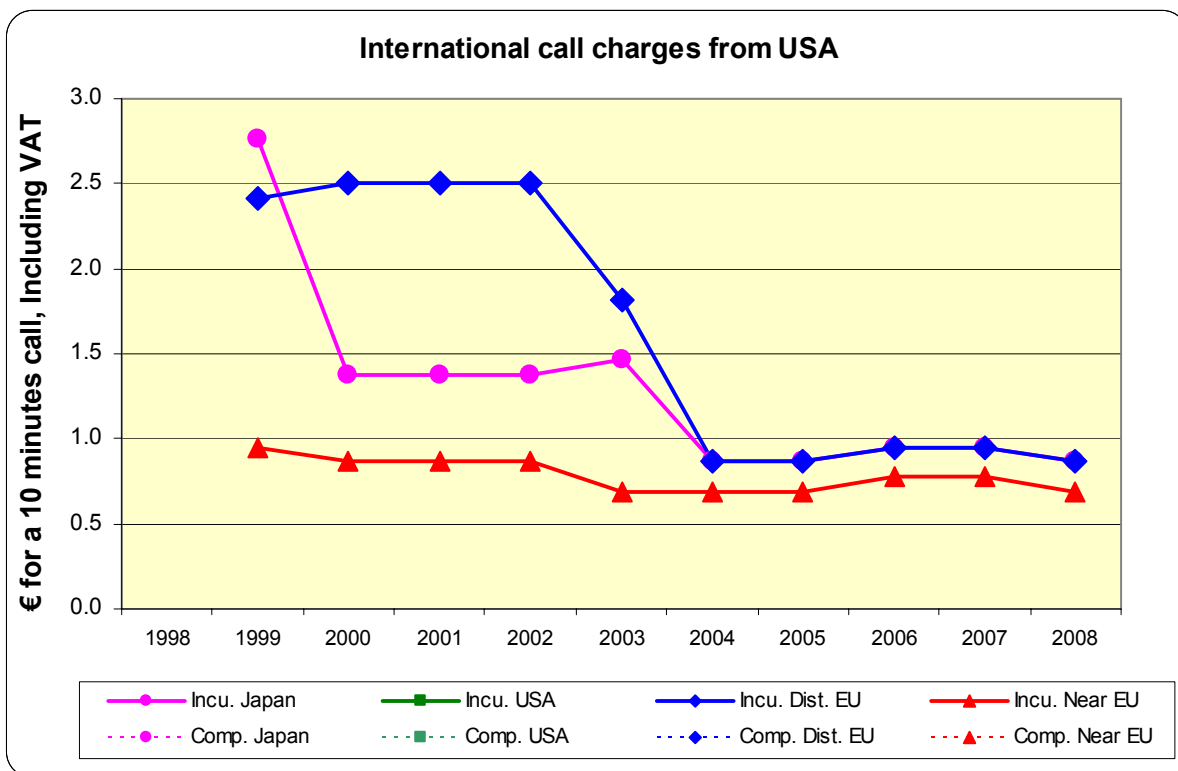
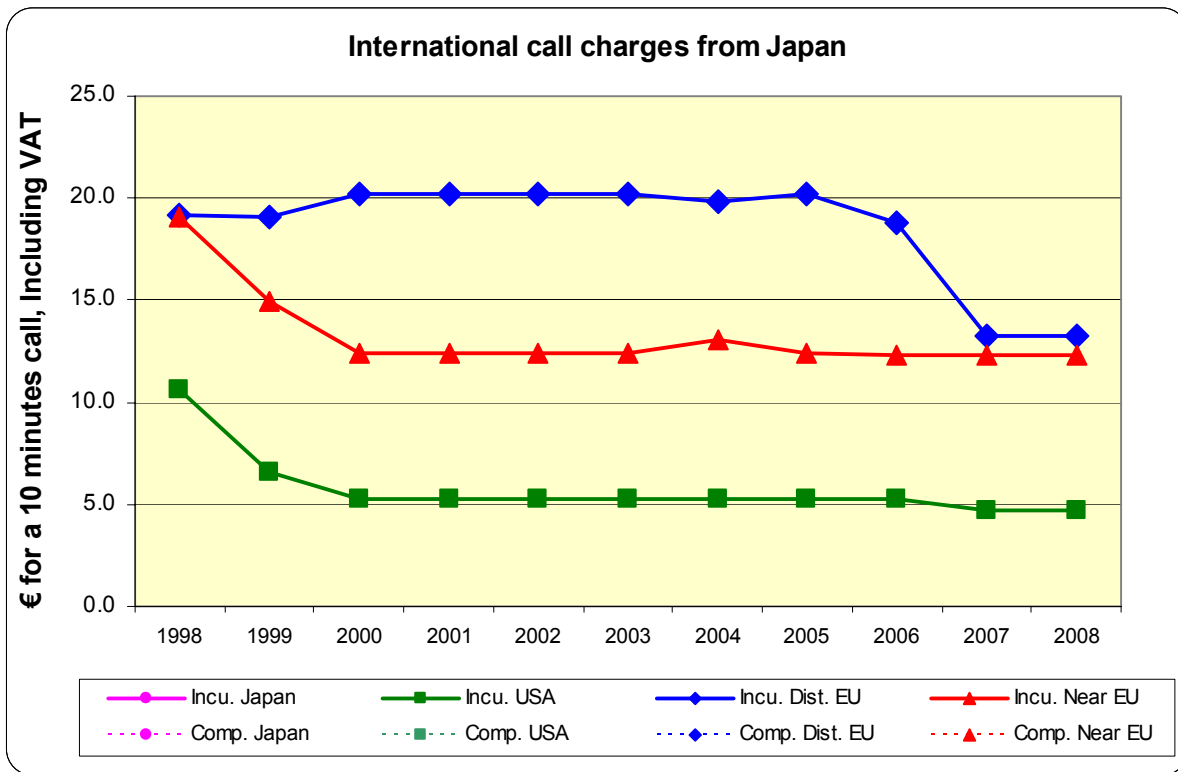


Figure 5.29 Calls from Japan



6. Monthly rental for PSTN

The tables below show the monthly rental for a single PSTN connection, for business and residential customers. The business charges exclude VAT, and the residential charges include VAT.

A number of countries have different rental charges for business and residential customers.

USA data is for Nynex / Bell Atlantic / Verizon in the New York Metro area. Message rate service is assumed, i.e. where local calls are charged on an individual basis.

In Finland and Japan the monthly rental will depend on where in the country the telephone line is connected. The charges shown are for the most densely populated area served by the operator.

Table 6.3 shows the corresponding monthly rental charges for competitor providers in each country. However, many of these operators use indirect access, and will as such not have any monthly charges related to line rental.

Table 6.1 Incumbent's basic monthly PSTN rental charge for Business customers

Business		Aug 1998	Aug 1999	Aug 2000	Aug 2001	Aug 2002	Aug 2003	Aug 2004	Sep 2005	Sep 2006	Sep 2007	Sep 2008
Belgium	Belgacom	13.39	13.39	13.39	13.39	13.39	13.64	13.88	14.17	14.17	14.46	15.21
Bulgaria	BTC			4.70	5.37	6.90	8.43	8.43	8.43	8.43	9.20	9.20
Czech	Telefonica O2			7.24	15.72	15.72	15.72	15.72	20.47	20.47	20.47	20.47
Denmark	TDC	12.92	12.92	12.92	12.18	12.57	12.78	12.78	12.78	12.78	13.86	14.40
Germany	Deutsche Telekom	10.94	10.94	10.94	10.94	11.49	11.83	13.50	13.75	13.75	13.76	13.76
Estonia	Elion			5.73	5.68	5.68	5.68	6.49	6.49	6.49	6.49	6.49
Greece	OTE	6.02	6.75	7.04	8.22	9.98	9.98	10.49	11.90	12.40	12.40	12.40
Spain	Telefonica	7.46	8.67	8.67	9.87	11.68	12.62	13.17	13.17	13.43	13.43	13.97
France	France Telecom	8.99	11.43	11.43	10.49	13.10	13.10	13.10	13.10	12.54	15.00	17.80
Ireland	Eircom	12.70	13.00	13.87	15.07	16.20	18.59	19.98	19.98	19.98	20.96	20.96
Italy	Telecom Italia	13.12	13.63	13.63	14.62	15.20	15.20	17.00	15.25	19.20	21.80	22.50
Cyprus	CYTA			2.14	6.83	6.83	8.54	8.54	11.87	34.17	34.17	13.93
Latvia	Latt Telekom			8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33
Lithuania	TEO LT, AB			8.73	8.73	8.73	6.79	6.79	6.79	6.79	6.79	6.79
Luxembourg	P&T Luxembourg	11.90	11.90	11.90	16.01	16.00	16.00	16.00	16.00	16.00	16.00	16.00
Hungary	Magyar Telekom			9.39	11.94	11.94	13.48	13.48	13.48	11.39	13.48	11.71
Malta	Maltacom						9.96	13.05	13.05	13.05	13.05	13.20
Netherlands	KPN	15.68	15.68	15.68	15.73	15.73	14.95	15.26	15.26	15.26	15.26	15.53
Austria	Telekom Austria	16.71	17.44	17.44	18.31	17.44	17.44	18.90	18.90	18.90	18.90	24.92
Poland	Polish Telecom			6.98	6.98	9.77	9.77	11.16	11.16	11.16	11.15	11.15
Portugal	Telecom Portugal	10.03	10.47	11.17	11.85	11.85	12.30	12.66	12.98	14.40	14.40	14.40
Romania	RomTelecom							6.00	8.00	8.00	10.00	10.00
Slovakia	Slovak Telecom			6.52	6.52	6.52	6.52	11.44	11.44	11.44	11.44	11.44
Slovenia	Telekom Slovenije			4.23	4.23	8.14	8.93	8.93	8.93	8.93	9.74	9.27
Finland	TeliaSonera	11.03	11.30	11.30	11.30	11.03	11.03	10.10	10.10	10.10	10.10	10.10
Sweden	Telia	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	11.73	12.64
UK	BT	15.79	15.79	16.16	16.69	17.24	17.40	17.40	17.42	17.42	17.42	18.24
USA	Verizon	12.74	12.74	12.74	12.74	13.80	13.80	14.31	13.22	12.56	15.66	14.24
Japan	NTT	20.83	20.83	20.83	20.83	20.83	20.83	20.83	20.02	20.02	20.02	20.19
<i>EU27 weighted average</i>		<i>11.60</i>	<i>12.26</i>	<i>11.43</i>	<i>11.93</i>	<i>13.03</i>	<i>13.26</i>	<i>13.68</i>	<i>13.75</i>	<i>14.21</i>	<i>15.01</i>	<i>15.68</i>

Charges in Euro per month, excluding VAT.

Table 6.2 Incumbent's basic monthly PSTN rental charge for residential customers

Residential		Aug 1998	Aug 1999	Aug 2000	Aug 2001	Aug 2002	Aug 2003	Aug 2004	Sep 2005	Sep 2006	Sep 2007	Sep 2008
Belgium	Belgacom	16.20	16.20	16.20	16.20	16.20	16.50	16.80	17.15	17.15	17.50	18.40
Bulgaria	BTC			1.47	2.45	4.29	6.13	6.13	6.44	6.44	7.05	7.05
Czech	Telefonica O2			7.60	12.37	12.37	12.37	12.37	13.61	16.69	16.69	16.69
Denmark	TDC	16.15	16.15	16.15	15.22	15.71	15.98	15.98	15.98	15.98	17.32	17.99
Germany	Deutsche Telekom	12.69	12.69	12.69	12.69	13.33	13.72	15.66	15.95	15.95	16.37	16.37
Estonia	Elion			3.19	3.19	3.19	3.19	6.25	6.25	6.25	6.25	6.25
Greece	OTE	7.10	7.96	8.31	9.70	11.78	11.78	12.38	14.16	14.76	14.76	14.76
Spain	Telefonica	8.66	10.05	10.05	11.45	13.54	14.64	15.28	15.28	15.58	15.58	16.21
France	France Telecom	10.37	11.89	11.79	12.55	13.00	13.00	13.00	13.99	15.00	16.00	16.00
Ireland	Eircom	18.59	15.73	16.78	18.24	19.60	22.49	24.18	24.18	24.18	25.36	25.36
Italy	Telecom Italia	10.10	10.41	11.16	12.83	14.88	14.57	14.57	14.57	14.57	14.57	14.57
Cyprus	CYTA			2.46	7.86	7.86	9.82	9.82	12.67	13.66	13.66	16.02
Latvia	Latt Telekom			4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92	4.92
Lithuania	TEO LT, AB			4.86	4.86	4.86	6.58	6.58	6.58	6.58	6.58	6.58
Luxembourg	P&T Luxembourg	13.68	13.68	13.68	18.42	18.40	18.40	18.40	18.40	18.40	18.40	18.40
Hungary	Magyar Telekom			8.73	11.11	11.11	12.36	12.36	13.05	13.05	13.82	13.82
Malta	Maltacom						4.97	6.46	5.91	5.91	5.91	5.99
Netherlands	KPN	15.70	15.70	15.70	16.43	17.20	17.79	18.16	18.16	18.16	19.00	18.00
Austria	Telekom Austria	13.08	17.44	17.44	18.49	15.98	15.98	15.98	15.98	15.98	15.98	15.98
Poland	Polish Telecom			8.51	8.51	11.92	11.92	11.92	13.95	13.95	13.95	13.95
Portugal	Telecom Portugal	11.73	12.26	13.07	13.86	14.10	14.64	15.07	15.32	15.32	15.32	15.19
Romania	RomTelecom							3.94	5.83	9.28	9.28	8.21
Slovakia	Slovak Telecom			7.76	7.76	7.76	7.76	9.71	9.71	9.71	9.71	9.71
Slovenia	Telekom Slovenije			5.03	5.03	9.76	10.72	10.72	10.72	10.72	11.69	11.12
Finland	TeliaSonera	13.45	13.79	13.79	13.79	13.46	13.46	11.77	11.77	11.77	8.24	8.24
Sweden	Telia	10.62	10.62	10.62	12.64	12.64	12.64	12.64	12.64	12.64	12.64	12.64
UK	BT	11.26	11.28	11.75	12.68	12.06	12.06	14.60	13.33	13.96	13.96	13.33
USA	Verizon	5.70	5.70	5.70	5.70	6.87	6.87	7.43	6.86	8.50	10.23	10.87
Japan	NTT	14.44	14.44	15.42	15.42	15.42	15.42	15.42	14.98	14.98	14.98	14.80
<i>EU27 weighted average</i>		<i>11.36</i>	<i>11.92</i>	<i>11.27</i>	<i>12.16</i>	<i>13.11</i>	<i>13.39</i>	<i>13.73</i>	<i>14.09</i>	<i>14.55</i>	<i>14.80</i>	<i>14.73</i>

Charges in euro per month, including VAT.

* UK (BT) charge for 2000 includes a call allowance of GBP 0.80 per month, for 2001 an allowance is GBP 1.30 per month, and for 2002 an allowance of GBP 1.80 per month. From 2004 other tariffs are used, with no call allowance, but lower call charges.

Table 6.3 Competitor's monthly PSTN rental charge

Monthly rental	Competitors	Business	Residential
Belgium	Telenet	14.33	17.34
Bulgaria	Orbitel	Indirect	Indirect
Czech	České Radiokomunik	Indirect	Indirect
Denmark	Tele2	10.91	17.73
Germany	Arcor	Indirect	Indirect
Estonia	Starman	9.14	7.59
Greece	Tellas	Multiplay only	Multiplay only
Spain	ONO	Indirect	Indirect
France	Cegetel/Neuf	Indirect	Indirect
Ireland	BT	20.96	25.36
Italy	Wind	Indirect	Indirect
Cyprus	CallSat	Indirect	Indirect
Latvia	Telecom Baltija	6.94	8.19
Lithuania	Eurocom *	Indirect	Indirect
Luxembourg	Tele2	16.00	18.40
Hungary	Tele2	Indirect	Indirect
Malta			
Netherlands	Pretium	14.08	16.75
Austria	Tele2UTA	20.00	Indirect
Poland	Tele2	11.21	11.92
Portugal	Novis	10.42	Indirect
Romania	RCS&RDS	3.00	indirect
Slovakia	GTS Nextra	10.92	Indirect
Slovenia	T-2	3.33	4.00
Finland	Elisa	10.20	12.45
Sweden	Tele2	10.01	9.61
UK	Virgin media	Not available	13.96

Charges in euro per month, excluding VAT for Business, and including VAT for Residential.

7. National mobile services

The analysis of national (as opposed to roaming) mobile services is based on the OECD baskets for digital mobile services, as provided by Teligen in the latest T-Basket update. Due to significant changes in usage patterns the OECD baskets have been redefined with effect from August 2002, and again from February 2006. There are 3 different baskets, based on low, medium and high usage levels.

In **section 7.1** the 2002 OECD basket definitions are used with Post-paid packages only. Some of the main properties of the 2002 version of the baskets are:

- Low usage basket with:
25 outgoing calls (37 minutes) per month + 30 SMS messages
42% of calls are to fixed line phones, 58% to mobile phones
- Medium usage basket with:
75 outgoing calls (148 minutes) per month + 35 SMS messages
36% of calls are to fixed line phones, 64% to mobile phones
- High usage basket with:
150 outgoing calls (315 minutes) per month + 42 SMS messages
40% of calls are to fixed line phones, 60% to mobile phones

In the following **section 7.2** the 2006 OECD basket definitions are used with Post-paid packages only. Some of the main properties of the 2006 version of the baskets are:

- Low usage basket with:
30 outgoing calls (44 minutes) per month + 33 SMS messages + 2/3 MMS
22% of calls are to fixed line phones, 70% to mobile phones, 8% to voicemail
- Medium usage basket with:
65 outgoing calls (114 minutes) per month + 50 SMS messages + 2/3 MMS
21% of calls are to fixed line phones, 72% to mobile phones, 7% to voicemail
- High usage basket with:
140 outgoing calls (246 minutes) per month + 55 SMS messages + 1 MMS
20% of calls are to fixed line phones, 73% to mobile phones, 7% to voicemail

In the following **section 7.3** the 2006 OECD basket definitions are used for analysis of prices for Pre-paid packages only. The Low usage basket has been determined appropriate for this.

In **section 7.4** the 2006 OECD basket definitions are again used, but now all tariffs for both Pre- and Post-paid packages are included.. The main properties of the 2006 version of the baskets are shown above.

The voice call volumes are defined on the basis of number of calls, the number of minutes indicated are calculated from the number of calls, the call durations, and the call distributions.

Each basket also has a unique definition of time of day distribution and call durations, and includes the monthly rental, and any registration charges distributed over 3 years.

The principles of the 2006 version of the baskets are the same as for the 2002 version, with some additional elements:

- Inclusion of MMS in the basket
- Both MMS and SMS are separated for peak and off-peak times, and on-net and off-net destinations.
- Voicemail is included in the baskets.
- Off-net calls can be directed to several networks.
- The methodology for calculating the effects of allowances has been improved.

Because of the added elements in the 2006 version of the baskets there is not consistent data for using the 2006 version for the years before 2006. The time series analysis in **section 7.5** will use both the basket definitions from 2002 (for the period 2002 – 2008) and the basket definitions from 2006 in separate graphs (for the period 2006 – 2008). The main tariff data is the same for both basket versions.

The definition of the OECD baskets include the criteria to cover at least 50% of the market share of each country, based on available subscriber numbers. This will normally include the two largest operators in each country. In some countries, like the UK, there are several operators with about equal size customer base. Showing only two operators may not give a completely correct picture of the mobile service market in that country.

All relevant packages from each operator are considered, but the final results presented here only show the cheapest package for each basket. Results are shown as Fixed (registration and monthly rental) and Usage (cost of calls and messages). Included minutes, messages and/or values are covered in the analysis.³

The asterisk (*) behind the package name means that the package name and most probably its structure has changed between the updates. The package chosen at any time is the cheapest package from that provider for the usage profile in question. This may give rise to significant apparent price changes over time, when new tariff packages are introduced.

The balance of fixed and usage in the mobile baskets will vary considerably between countries, as the preferred packages in some countries contain a lot of calling time included in the fixed charge, hence a higher fixed charge.

All prices in the tables and graphs are given in Euro per month, including VAT.

All averages are simple, un-weighted averages across the EU countries, as specified.

³ It has been established that the calculation of included values or allowances produce misleading results in some cases, when the included value or allowance does not cover all types of calls. This has been corrected in the 2006 revision of the OECD baskets, but the allowance benefit for preceding years may be slightly understated.

7.1. Mobile service baskets, 2002 version

Table 7.1 Low usage basket results using 2002 version of the OECD basket, data for 2008

Low usage basket 2008	Fixed	Usage	Total
Austria, Mobilkom, bob vierer *	-	2.91	2.91
Austria, T-Mobile, Teling Kleiner Basta *	-	9.50	9.50
Belgium, Mobistar, My10 *	10.00	4.50	14.50
Belgium, Proximus, Smile Bundle €10 + WE On-net	10.00	0.80	10.80
Bulgaria, Globul, 30+	6.13	3.69	9.83
Bulgaria, M-Tel, M-Tel Fix *	3.53	6.09	9.62
Cyprus, CYTA, Lite	2.52	2.59	5.11
Cyprus, MTN, MTN 140	8.59	-	8.59
Czech, O2, Simple 240 *	11.92	-	11.92
Czech, T-Mobile, Kredit 250	12.44	-	12.44
Denmark, Sonofon, Base	0.74	6.71	7.45
Denmark, TDC Mobil, Simply *	0.37	6.14	6.51
Estonia, Eesti Mobiltelefon, POP! *	1.05	6.77	7.82
Estonia, Tele2 Estonia, Hinnaliider 75	0.18	4.79	4.96
Finland, Elisa, Kolombus K1 *	0.66	4.63	5.29
Finland, Sonera, Min Sonera *	2.10	7.55	9.64
France, Orange, Zap 11-18 15 euro/24 months *	15.00	1.91	16.91
France, SFR, Les Minis de SFR 40 *	14.90	3.57	18.47
Germany, T-Mobile, Relax 50 *	10.64	5.70	16.34
Germany, Vodafone, Kombi Wochenende 60 SIM only *	10.64	6.00	16.64
Greece, Cosmote, Zero Free *	-	12.57	12.57
Greece, Vodafone, Vodafone No Fee *	-	13.01	13.01
Hungary, Pannon, Pannon 60	7.62	3.81	11.43
Hungary, T-Mobile, MobilOtthon Premium + SMS Option *	2.84	5.12	7.96
Ireland, O2, Clear 50 18 month *	15.00	3.00	18.00
Ireland, Vodafone, Perfect Choice 50 *	19.00	3.30	22.30
Italy, TIM, Easy TIM New *	-	13.50	13.50
Italy, Vodafone, 6 Libero *	5.16	11.14	16.30
Latvia, LMT, Call me	8.22	2.62	10.84
Latvia, Tele2 Latvia, Brivais	-	9.72	9.72
Lithuania, Omnitel, Mano 9 *	-	3.85	3.85
Lithuania, Tele2, Standartinis 1	-	6.32	6.32
Luxembourg, LuxGSM, Basic	-	8.60	8.60
Luxembourg, Tango, Knock-out	-	7.20	7.20
Malta, Go, Go Together	14.30	3.13	17.44
Malta, Vodafone Malta, CUG1000 *	12.00	7.44	19.44
Netherlands, KPN, SIM-only €12.50 *	7.95	-	7.95
Netherlands, Vodafone, SIM only 17.50 - 2 year *	8.75	-	8.75
Poland, Era, Zero *	-	6.33	6.33
Poland, Orange, poznaj nową taryfę 25 *	6.98	1.67	8.65
Portugal, TMN, Flat S *	-	14.90	14.90
Portugal, Vodafone, Plano Best Total 1 *	-	14.78	14.78
Romania, Orange, Flexible 7 Prices in Euro	8.33	1.79	10.12
Romania, Vodafone, Vodafone Simplu Prices in Euro *	3.57	7.09	10.66
Slovakia, Orange, Pausal 199 Sk	8.63	2.41	11.04
Slovakia, T-Mobile, 20+20Viac	8.04	5.03	13.07
Slovenia, Mobitel, Uniform	3.32	7.95	11.27
Slovenia, Si.mobil Vodafone, Orto U Nulo *	10.33	2.31	12.64
Spain, MoviStar, Contrato Empresas Tramos Horarios	0.68	14.22	14.89
Spain, Vodafone, Vitamina Clasica *	-	16.45	16.45
Sweden, Tele 2 Comviq, Comviq Kompis *	5.23	3.36	8.59
Sweden, Telia, Telia Mobil Bingo 12 months *	0.70	10.01	10.72
UK, O2, Pay Monthly 75 18 month plan *	25.39	4.57	29.96
UK, T-Mobile, Combi 15 18 month plan *	19.04	4.57	23.61
EU simple average across all packages	5.55	5.65	11.20

Figure 7.1 Low usage basket results using 2002 version of the OECD basket

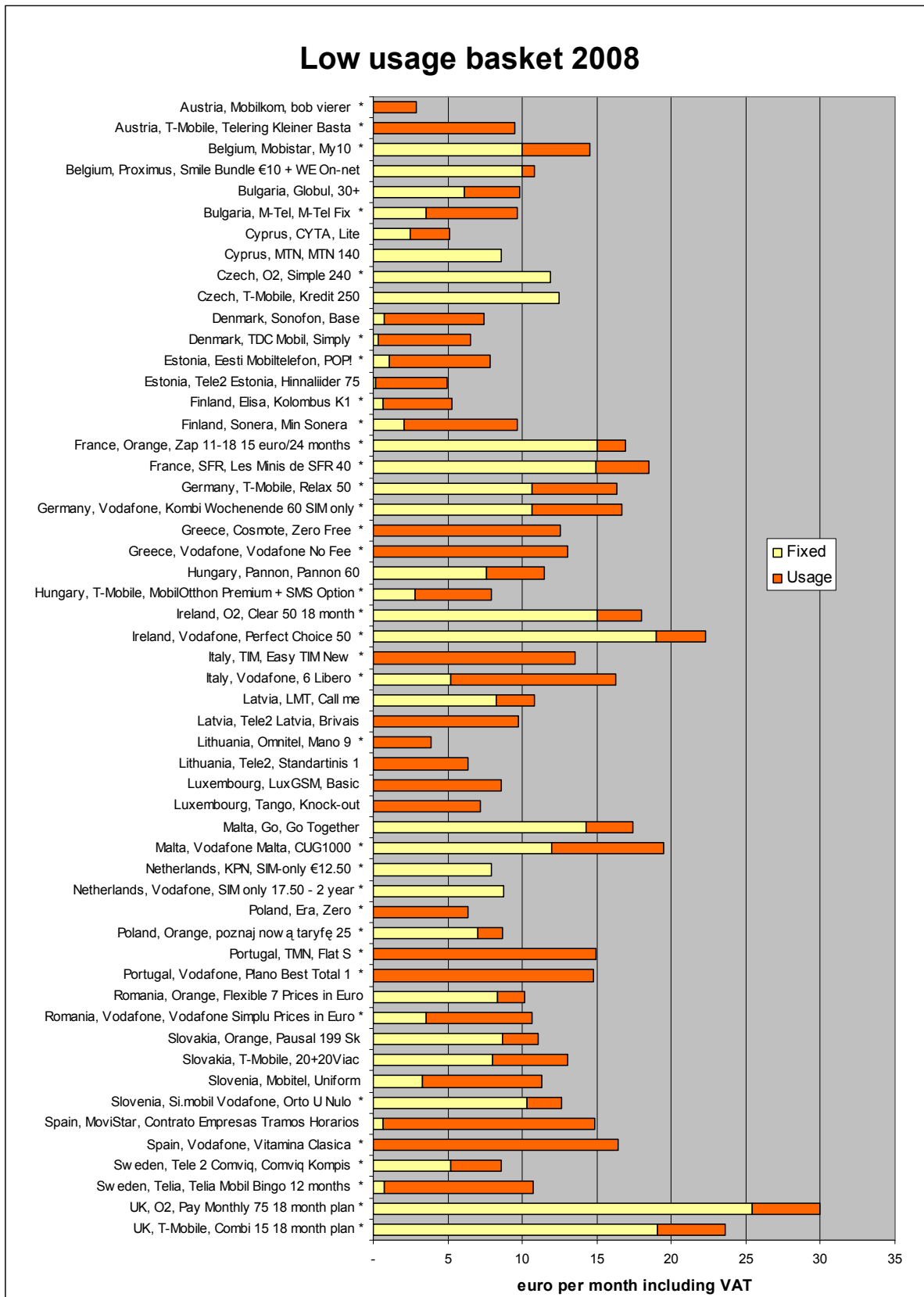


Table 7.2 Medium usage basket results using 2002 version of the OECD basket, data for 2008

Medium usage basket 2008	Fixed	Usage	Total
Austria, Mobilkom, bob vierer *	-	7.94	7.94
Austria, T-Mobile, Teling Gūnta *	-	15.00	15.00
Belgium, Mobistar, My15 *	15.00	18.07	33.07
Belgium, Proximus, Smile Bundle €20 + WE On-net *	20.00	12.23	32.23
Bulgaria, Globul, 30+	6.13	23.62	29.76
Bulgaria, M-Tel, M-Tel Fix *	3.53	18.78	22.31
Cyprus, CYTA, Lite *	2.52	11.08	13.60
Cyprus, MTN, MTN 140	8.59	0.38	8.98
Czech, O2, Business 150 *	29.64	2.58	32.23
Czech, T-Mobile, Kredit 700	34.59	-	34.59
Denmark, Sonofon, MobilDeal 99 *	0.37	16.62	16.99
Denmark, TDC Mobil, Simply *	0.37	18.72	19.09
Estonia, Eesti Mobiltelefon, Peo Leo *	0.18	16.62	16.79
Estonia, Tele2 Estonia, Hinnaliider 75	0.18	7.36	7.54
Finland, Elisa, Kolombus K1 *	0.66	12.62	13.28
Finland, Sonera, Min Sonera - Samtal 100 *	12.00	8.48	20.48
France, Orange, Forfait M6 29.90€/24 months *	29.99	-	29.99
France, SFR, Forfait Bloques 35.90 euro 24 months *	35.90	-	35.90
Germany, T-Mobile, Relax 200 *	30.64	6.65	37.29
Germany, Vodafone, Kombi Wochenende 120 SIM only *	20.64	7.31	27.95
Greece, Cosmote, Cosmote 150 *	26.00	3.75	29.75
Greece, Vodafone, Vodafone 150 *	26.00	3.75	29.75
Hungary, Pannon, djuice post-paid 10	15.02	2.85	17.86
Hungary, T-Mobile, MobilOtthon Premium + SMS Option *	2.84	18.90	21.74
Ireland, O2, Business Time 175 *	34.49	3.39	37.87
Ireland, Vodafone, Perfect Choice 100 Landline add-on *	41.99	3.85	45.84
Italy, TIM, Affare Fatto *	-	35.17	35.17
Italy, Vodafone, Stile Libero *	5.16	31.97	37.13
Latvia, LMT, Formula 8	0.19	14.57	14.76
Latvia, Tele2 Latvia, Brivais	-	14.08	14.08
Lithuania, Omnitel, Connect Smart *	-	5.43	5.43
Lithuania, Tele2, Čempionas *	-	13.17	13.17
Luxembourg, LuxGSM, Relax +Landlines	15.00	6.65	21.65
Luxembourg, Tango, Knock-out	-	19.08	19.08
Malta, Go, Go Together	14.30	28.87	43.17
Malta, Vodafone Malta, Lightweight + On-net *	20.00	8.30	28.30
Netherlands, KPN, SIM-only €17.50 *	9.95	-	9.95
Netherlands, Vodafone, SIM only 27.50 - 2 year *	13.75	-	13.75
Poland, Era, New Biznes 20 *	6.81	9.24	16.05
Poland, Orange, poznaj nową taryfę 75 *	20.93	3.10	24.03
Portugal, TMN, Flat S *	-	29.58	29.58
Portugal, Vodafone, Plano Best Total 1 Aditivo Rede Fixa *	7.83	19.44	27.27
Romania, Orange, Flexible 15 Prices in Euro	17.85	3.26	21.11
Romania, Vodafone, Vodafone Favourite Hours Prices in US\$	8.33	13.01	21.34
Slovakia, Orange, Pausal 60 *	16.43	11.19	27.63
Slovakia, T-Mobile, 100Viac	26.37	9.86	36.23
Slovenia, Mobitel, Uniform	3.32	23.25	26.57
Slovenia, Si.mobil Vodafone, Orto U Nulo *	10.33	8.66	19.00
Spain, Movistar, Contrato Empresas Tramos Horarios	0.68	38.43	39.11
Spain, Vodafone, Contrato Vitamina 60x1 24H *	0.68	42.61	43.29
Sweden, Tele 2 Comviq, Snackis *	10.29	0.67	10.96
Sweden, Telia, Telia Mobil Bingo 18 months *	0.70	14.36	15.06
UK, O2, Pay Monthly 200 18 month plan *	31.73	5.33	37.07
UK, T-Mobile, Solo 15 - 30 day SIM only *	19.04	5.33	24.37
EU simple average across all packages	12.13	11.98	24.11

Figure 7.2 Medium usage basket results using 2002 version of the OECD basket

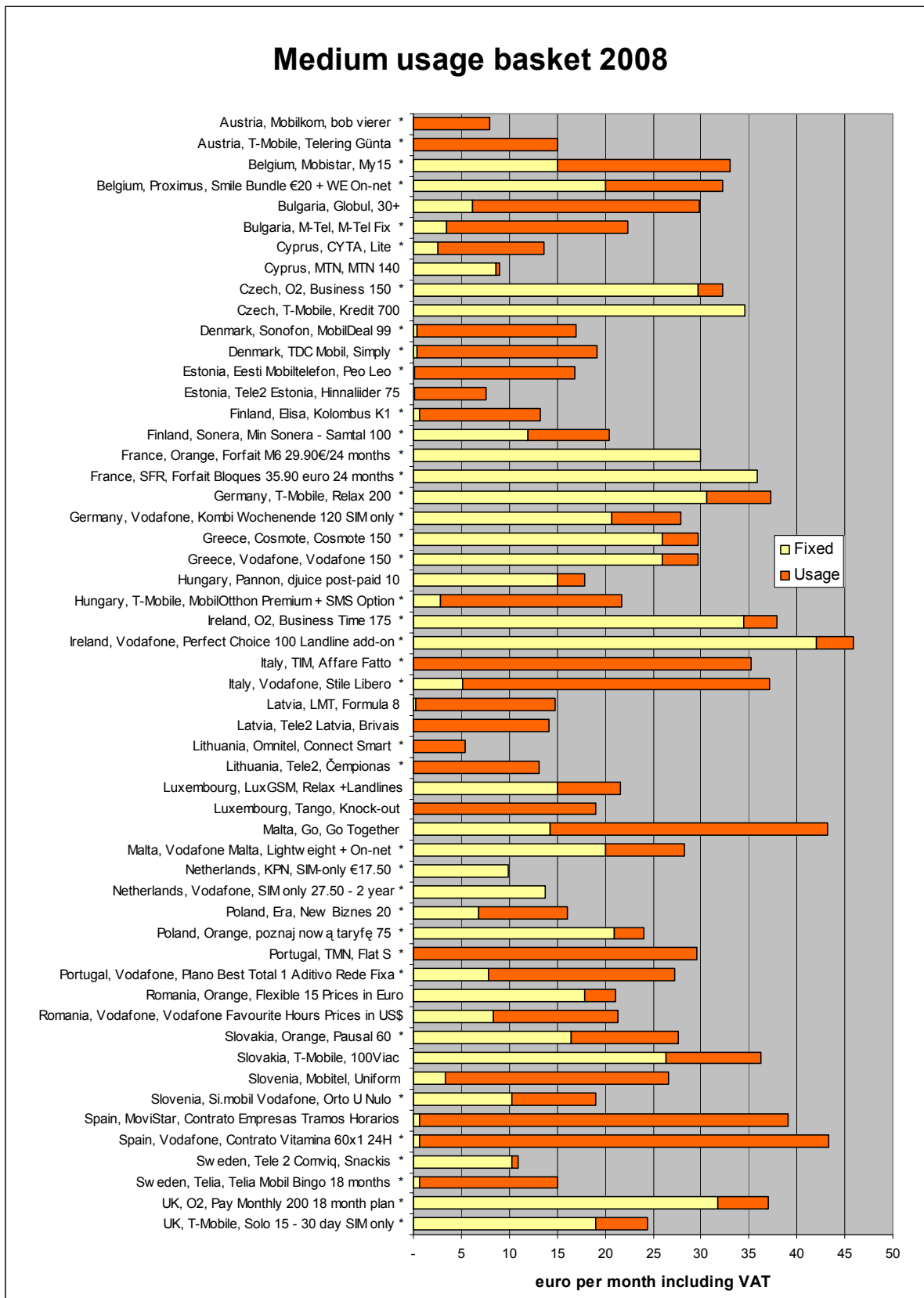
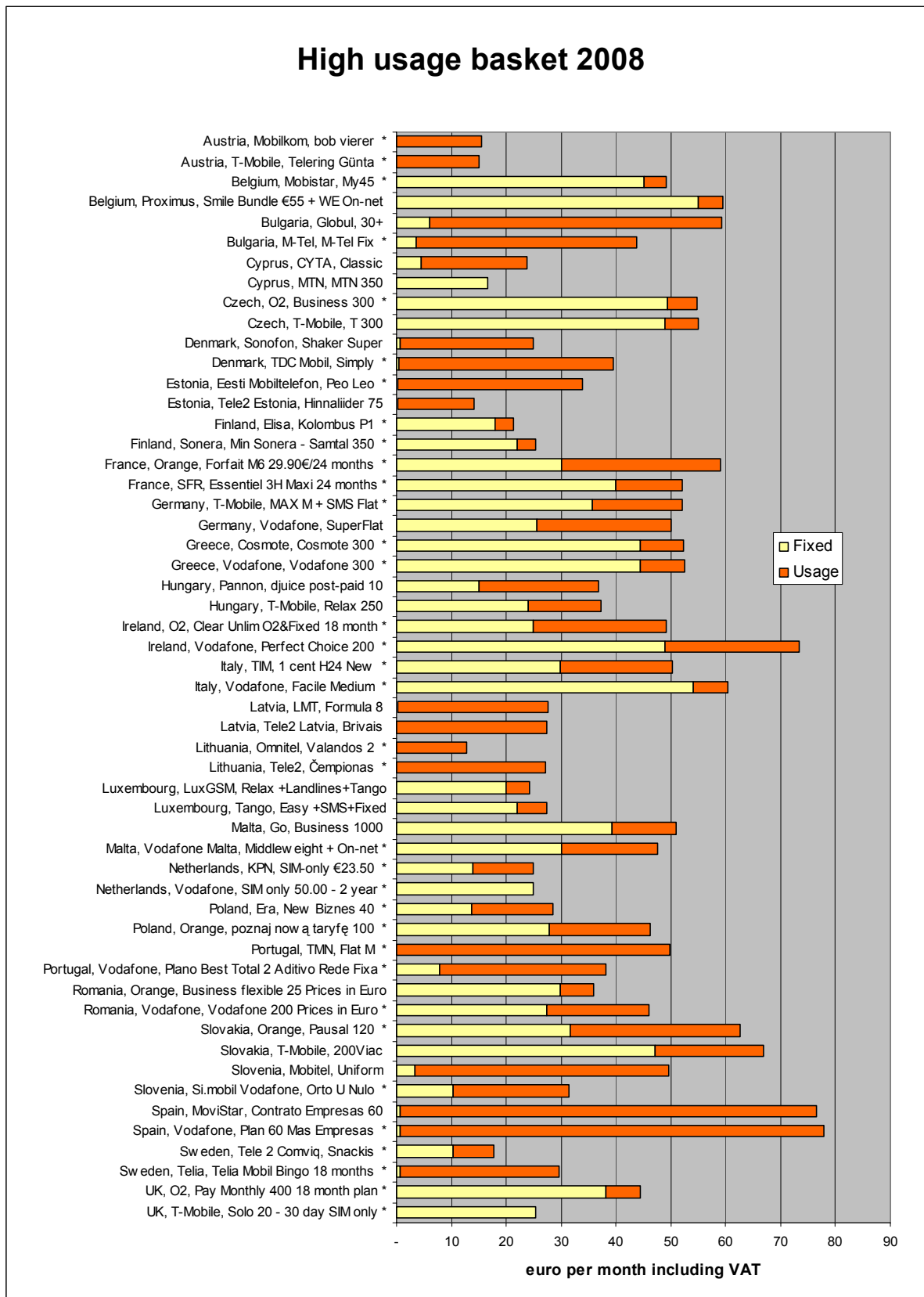


Table 7.3 High usage basket results using version of the OECD 2002 basket, data for 2008

High usage basket 2008	Fixed	Usage	Total
Austria, Mobilkom, bob vierer *	-	15.42	15.42
Austria, T-Mobile, Teling Gnta *	-	15.00	15.00
Belgium, Mobistar, My45 *	45.00	4.20	49.20
Belgium, Proximus, Smile Bundle €55 + WE On-net	55.00	4.40	59.40
Bulgaria, Globul, 30+	6.13	53.05	59.18
Bulgaria, M-Tel, M-Tel Fix *	3.53	40.13	43.66
Cyprus, CYTA, Classic	4.48	19.39	23.86
Cyprus, MTN, MTN 350	16.64	-	16.64
Czech, O2, Business 300 *	49.33	5.47	54.80
Czech, T-Mobile, T 300	48.86	6.05	54.91
Denmark, Sonofon, Shaker Super	0.74	24.10	24.85
Denmark, TDC Mobil, Simply *	0.37	39.12	39.49
Estonia, Eesti Mobiltelefon, Peo Leo *	0.18	33.67	33.84
Estonia, Tele2 Estonia, Hinnaliider 75	0.18	14.06	14.23
Finland, Elisa, Kolombus P1 *	17.90	3.36	21.26
Finland, Sonera, Min Sonera - Samtal 350 *	22.00	3.32	25.32
France, Orange, Forfait M6 29.90€/24 months *	29.99	28.99	58.98
France, SFR, Essentiel 3H Maxi 24 months *	39.90	12.28	52.18
Germany, T-Mobile, MAX M + SMS Flat *	35.59	16.44	52.04
Germany, Vodafone, SuperFlat	25.64	24.42	50.07
Greece, Cosmote, Cosmote 300 *	44.50	7.85	52.35
Greece, Vodafone, Vodafone 300 *	44.50	7.96	52.46
Hungary, Pannon, djuice post-paid 10	15.02	21.74	36.75
Hungary, T-Mobile, Relax 250	24.06	13.23	37.30
Ireland, O2, Clear Unlim O2&Fixed 18 month *	25.00	24.05	49.05
Ireland, Vodafone, Perfect Choice 200 *	49.00	24.47	73.47
Italy, TIM, 1 cent H24 New *	29.89	20.38	50.27
Italy, Vodafone, Facile Medium *	54.16	6.30	60.46
Latvia, LMT, Formula 8	0.19	27.46	27.65
Latvia, Tele2 Latvia, Brivais	-	27.27	27.27
Lithuania, Omnitel, Valandos 2 *	-	12.86	12.86
Lithuania, Tele2, Ćempionas *	-	27.18	27.18
Luxembourg, LuxGSM, Relax +Landlines+Tango	20.00	4.20	24.20
Luxembourg, Tango, Easy +SMS+Fixed	22.00	5.47	27.47
Malta, Go, Business 1000	39.32	11.55	50.87
Malta, Vodafone Malta, Middleweight + On-net *	30.00	17.48	47.48
Netherlands, KPN, SIM-only €23.50 *	13.95	10.86	24.81
Netherlands, Vodafone, SIM only 50.00 - 2 year *	25.00	-	25.00
Poland, Era, New Biznes 40 *	13.62	14.91	28.53
Poland, Orange, poznaj now taryf 100 *	27.91	18.35	46.25
Portugal, TMN, Flat M *	-	49.73	49.73
Portugal, Vodafone, Plano Best Total 2 Aditivo Rede Fixa *	7.83	30.26	38.09
Romania, Orange, Business flexible 25 Prices in Euro	29.75	6.08	35.83
Romania, Vodafone, Vodafone 200 Prices in Euro *	27.37	18.74	46.11
Slovakia, Orange, Pausal 120 *	31.64	31.04	62.68
Slovakia, T-Mobile, 200Viac	47.05	19.83	66.88
Slovenia, Mobitel, Uniform	3.32	46.22	49.54
Slovenia, Si.mobil Vodafone, Orto U Nulo *	10.33	21.00	31.33
Spain, Movistar, Contrato Empresas 60	0.68	75.80	76.48
Spain, Vodafone, Plan 60 Mas Empresas *	0.68	77.21	77.89
Sweden, Tele 2 Comviq, Snackis *	10.29	7.50	17.79
Sweden, Telia, Telia Mobil Bingo 18 months *	0.70	28.91	29.61
UK, O2, Pay Monthly 400 18 month plan *	38.08	6.40	44.48
UK, T-Mobile, Solo 20 - 30 day SIM only *	25.39	-	25.39
EU simple average across all packages	21.17	19.70	40.87

Figure 7.3 High usage basket results using version of the OECD 2002 basket



7.2. Mobile service baskets, 2006 version

Table 7.4 Low usage basket results using 2006 version of the OECD basket, data for 2008

Low usage basket 2008	Fixed	Usage	Total
Austria, Mobilkom, bob vierer *	-	3.65	3.65
Austria, T-Mobile, Teling Kleiner Basta *	-	10.91	10.91
Belgium, Mobistar, My10 *	10.00	5.12	15.12
Belgium, Proximus, Smile Bundle €10 + WE On-net	10.00	2.45	12.45
Bulgaria, Globul, 30+	6.13	5.29	11.43
Bulgaria, M-Tel, M-Tel Fix *	3.53	8.91	12.44
Cyprus, CYTA, Lite	2.52	3.70	6.22
Cyprus, MTN, MTN 140	8.59	0.13	8.72
Czech, O2, Simple 240 *	11.92	1.85	13.77
Czech, T-Mobile, Kredit 250	12.44	1.56	14.00
Denmark, Sonofon, Base	0.74	8.14	8.88
Denmark, TDC Mobil, Simply *	0.37	7.00	7.37
Estonia, Eesti Mobiltelefon, POP! *	1.05	7.54	8.58
Estonia, Tele2 Estonia, Hinnaliider 75	0.18	4.79	4.96
Finland, Elisa, Kolombus K1 *	0.66	5.45	6.11
Finland, Sonera, Min Sonera - Samtal 50 + SMS 50 *	9.90	0.26	10.16
France, Orange, Zap 11-18 17 euro/24 months *	17.00	-	17.00
France, SFR, Forfait Bloques 19.90 euro 24 months *	19.90	-	19.90
Germany, T-Mobile, Relax 50 + SMS 40 *	15.59	0.26	15.85
Germany, Vodafone, Kombi Wochenende 60 SIM only *	10.64	6.86	17.50
Greece, Cosmote, Zero Free *	-	14.76	14.76
Greece, Vodafone, Vodafone No Fee *	-	15.24	15.24
Hungary, Pannon, Pannon 60 + SMS 40 *	11.01	0.25	11.27
Hungary, T-Mobile, MobilOtthon Premium + SMS Option *	2.84	8.53	11.37
Ireland, O2, Clear 50 18 month *	15.00	0.17	15.17
Ireland, Vodafone, Perfect Choice 50 *	19.00	0.17	19.17
Italy, TIM, Easy TIM New *	-	15.72	15.72
Italy, Vodafone, 6 Libero *	5.16	13.41	18.57
Latvia, LMT, Formula 8	0.19	11.11	11.30
Latvia, Tele2 Latvia, Brivais	-	9.72	9.72
Lithuania, Omnitel, Mano 9 *	-	4.47	4.47
Lithuania, Tele2, Standartinis 1	-	6.45	6.45
Luxembourg, LuxGSM, Basic	-	9.82	9.82
Luxembourg, Tango, Knock-out	-	8.33	8.33
Malta, Go, Go Together	14.30	5.08	19.39
Malta, Vodafone Malta, CUG1000 *	12.00	8.65	20.65
Netherlands, KPN, SIM-only €12.50 *	7.95	-	7.95
Netherlands, Vodafone, SIM only 17.50 - 2 year *	8.75	-	8.75
Poland, Era, Zero *	-	7.49	7.49
Poland, Orange, poznaj nową taryfę 25 *	6.98	2.28	9.25
Portugal, TMN, Rede t *	-	14.90	14.90
Portugal, Vodafone, Plano Best Total 1 *	-	14.78	14.78
Romania, Orange, Flexible 7 Prices in Euro *	8.33	2.07	10.40
Romania, Vodafone, Vodafone 50 Prices in Euro *	8.93	2.07	11.00
Slovakia, Orange, Pausal 299 Sk	12.53	0.61	13.14
Slovakia, T-Mobile, 20+20Viac	8.04	5.63	13.66
Slovenia, Mobitel, Uniform	3.32	9.10	12.42
Slovenia, Si.mobil Vodafone, Orto U Nulo *	10.33	1.98	12.31
Spain, MoviStar, Contrato Empresas Tramos Horarios	0.68	17.03	17.71
Spain, Vodafone, Contrato Mañana	0.68	17.78	18.45
Sweden, Tele 2 Comviq, Comviq Kompis *	5.23	4.41	9.64
Sweden, Telia, Telia Mobil Bingo 12 months *	0.70	10.01	10.72
UK, O2, Pay Monthly 75 18 month plan *	25.39	-	25.39
UK, T-Mobile, Combi 15 18 month plan *	19.04	0.46	19.50
EU simple average across all packages	6.44	6.04	12.48

Figure 7.4 Low usage basket results using 2006 version of the OECD basket

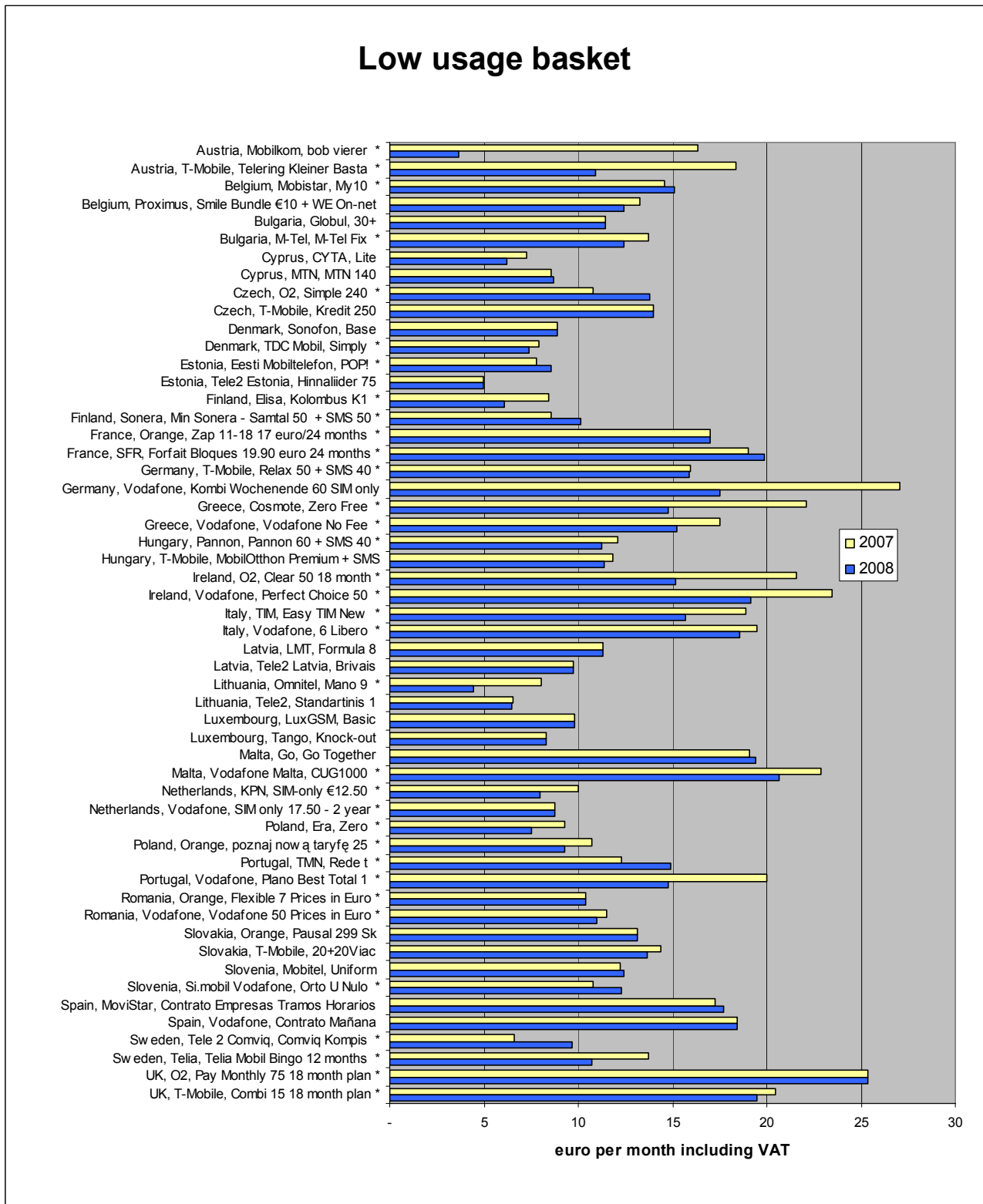


Table 7.5 Medium usage basket results using 2006 version of the OECD basket, data for 2008

Medium usage basket 2008	Fixed	Usage	Total
Austria, Mobikom, bob vierer *	-	7.31	7.31
Austria, T-Mobile, Teling Gúnta *	-	15.00	15.00
Belgium, Mobistar, My15 *	15.00	11.78	26.78
Belgium, Proximus, Smile Bundle €20 + WE On-net	20.00	6.48	26.48
Bulgaria, Globul, 30+	6.13	18.82	24.95
Bulgaria, M-Tel, M-Tel Extra Pro *	7.62	13.24	20.86
Cyprus, CYTA, Classic	4.48	7.75	12.22
Cyprus, MTN, MTN 140	8.59	0.13	8.72
Czech, O2, Neon M *	18.70	8.67	27.37
Czech, T-Mobile, Kredit 450	22.28	7.48	29.76
Denmark, Sonofon, Base +	7.39	8.96	16.35
Denmark, TDC Mobil, Simply *	0.37	14.32	14.69
Estonia, Eesti Mobiltelefon, Peo Leo *	0.18	13.94	14.12
Estonia, Tele2 Estonia, Hinnaliider 75	0.18	6.62	6.79
Finland, Elisa, Kolombus K1 *	0.66	11.44	12.10
Finland, Sonera, Min Sonera - Samtal 100 + SMS 50 *	13.90	1.89	15.79
France, Orange, Forfait M6 24.90€/24 months *	24.99	4.78	29.77
France, SFR, Forfait Bloques 29.90 euro 24 months *	29.90	-	29.90
Germany, T-Mobile, Relax 50 + SMS 40 *	15.59	16.21	31.80
Germany, Vodafone, Kombi Wochenende 120 SIM only *	20.64	10.26	30.90
Greece, Cosmote, Cosmote 120 + SMS 30 *	24.74	2.44	27.17
Greece, Vodafone, Vodafone 100 SMS 50 *	24.70	3.38	28.08
Hungary, Pannon, djuice post-paid 10	15.02	-	15.02
Hungary, T-Mobile, Relax 100	12.32	8.23	20.55
Ireland, O2, Business Time 175 *	34.49	0.17	34.65
Ireland, Vodafone, Perfect Choice 100 *	29.00	3.28	32.28
Italy, TIM, Easy TIM New *	-	30.48	30.48
Italy, Vodafone, 6 Libero *	5.16	29.09	34.25
Latvia, LMT, Formula 8	0.19	15.18	15.37
Latvia, Tele2 Latvia, Brivais	-	12.85	12.85
Lithuania, Omnitel, Connect Smart *	-	5.43	5.43
Lithuania, Tele2, Čempionas *	-	10.62	10.62
Luxembourg, LuxGSM, Basic	-	18.95	18.95
Luxembourg, Tango, Knock-out	-	15.96	15.96
Malta, Go, Go Together	14.30	22.13	36.43
Malta, Vodafone Malta, Lightweight + On-net *	20.00	8.36	28.36
Netherlands, KPN, SIM-only €17.50 *	9.95	-	9.95
Netherlands, Vodafone, SIM only 27.50 - 2 year *	13.75	-	13.75
Poland, Era, New Biznes 20	6.81	6.82	13.62
Poland, Orange, poznaj nową taryfę 55 *	15.35	4.46	19.80
Portugal, TMN, Flat S + Pakot 60 SMS *	4.96	18.27	23.23
Portugal, Vodafone, Plano Best Total 1 Aditivo SMS 30 *	2.48	21.16	23.64
Romania, Orange, Flexible 10 Prices in Euro *	11.90	6.58	18.48
Romania, Vodafone, Vodafone Favourite Hours Prices in US\$ *	8.33	11.91	20.24
Slovakia, Orange, Pausal 50 + SMS	16.43	9.54	25.97
Slovakia, T-Mobile, 20+20Viac	8.04	20.62	28.66
Slovenia, Mobitel, Uniform	3.32	19.99	23.31
Slovenia, Si.mobil Vodafone, Orto U Nulo *	10.33	5.18	15.51
Spain, Movistar, Contrato Empresas Tramos Horarios	0.68	35.21	35.89
Spain, Vodafone, Contrato Mañana *	0.68	37.31	37.99
Sweden, Tele 2 Comviq, Snackis *	10.29	1.07	11.37
Sweden, Telia, Telia Mobil Bingo 18 months *	0.70	12.21	12.91
UK, O2, Pay Monthly 200 18 month plan *	31.73	-	31.73
UK, T-Mobile, Solo 15 - 30 day SIM only *	19.04	0.72	19.76
EU simple average across all packages	10.58	10.79	21.37

Figure 7.5 Medium usage basket results using 2006 version of the OECD basket

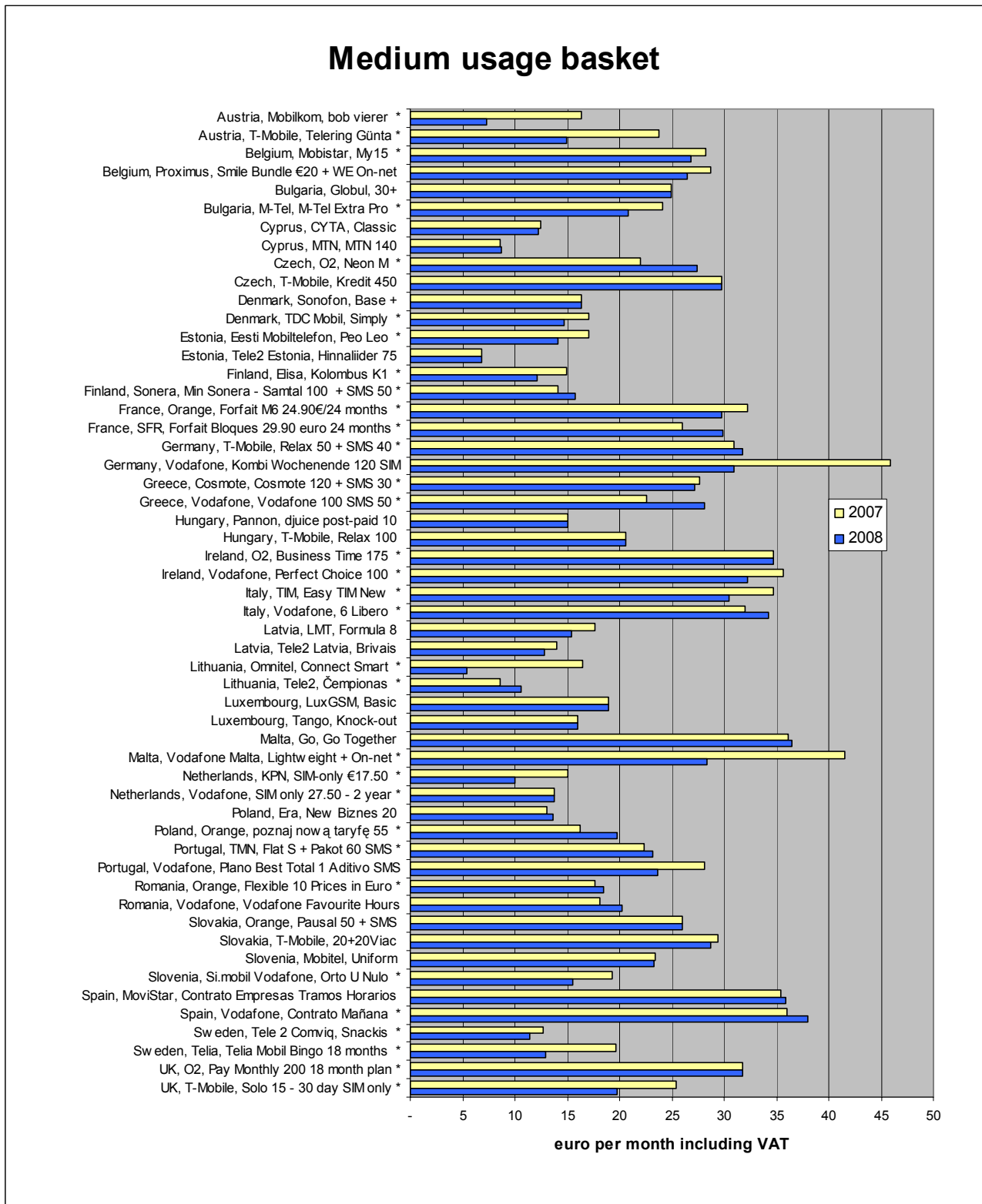
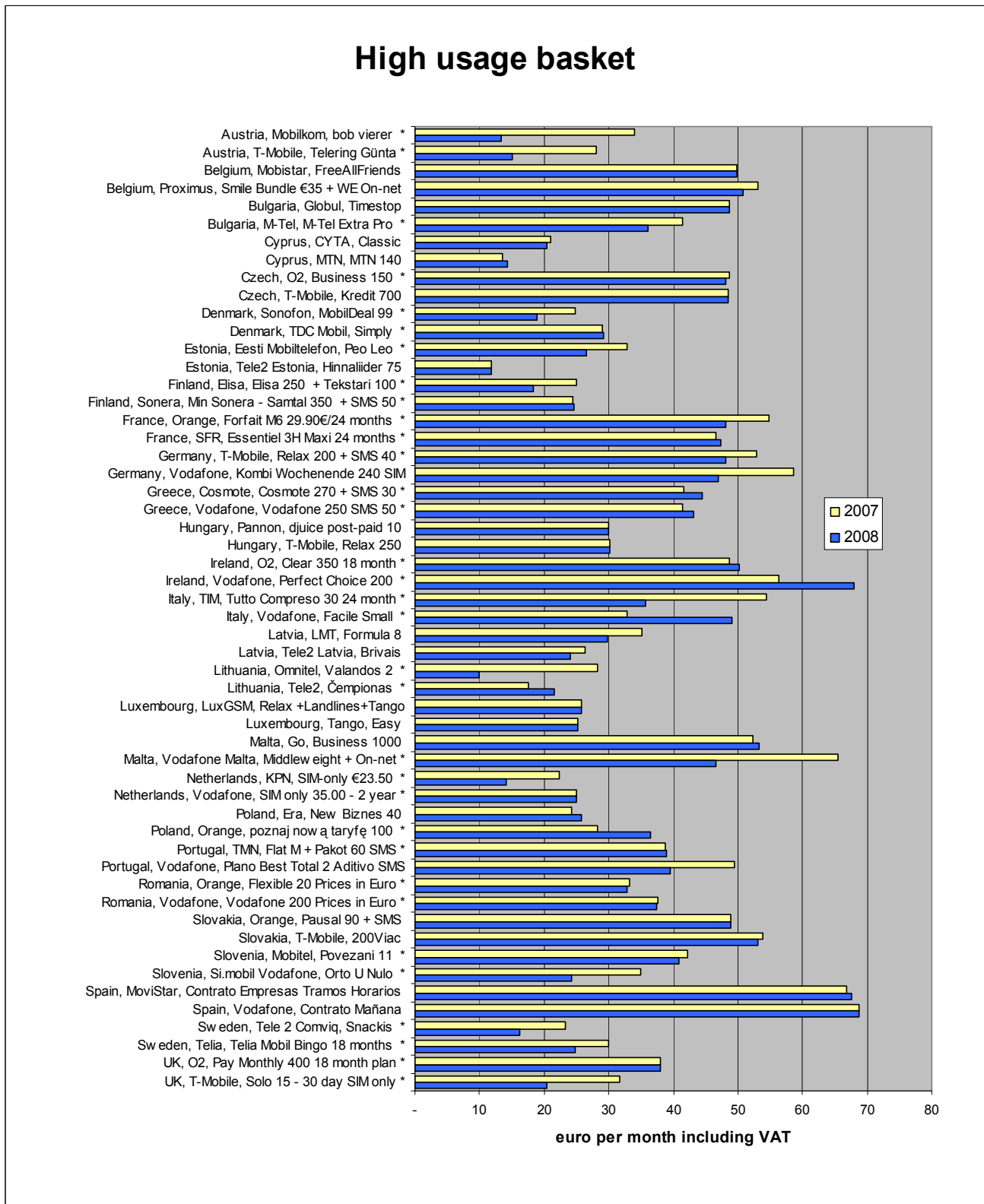


Table 7.6 High usage basket results using 2006 version of the OECD basket, data for 2008

High usage basket 2008	Fixed	Usage	Total
Austria, Mobikom, bob vierer *	-	13.44	13.44
Austria, T-Mobile, Teling Gūnta *	-	15.00	15.00
Belgium, Mobistar, FreeAllFriends	30.00	19.76	49.76
Belgium, Proximus, Smile Bundle €35 + WE On-net	35.00	15.72	50.72
Bulgaria, Globul, Timestop	5.06	43.61	48.67
Bulgaria, M-Tel, M-Tel Extra Pro *	7.62	28.44	36.06
Cyprus, CYTA, Classic	4.48	15.91	20.38
Cyprus, MTN, MTN 140	8.59	5.67	14.26
Czech, O2, Business 150 *	29.64	18.43	48.07
Czech, T-Mobile, Kredit 700	34.59	13.84	48.43
Denmark, Sonofon, MobilDeal 99 *	0.37	18.47	18.84
Denmark, TDC Mobil, Simply *	0.37	28.93	29.30
Estonia, Eesti Mobiltelefon, Peo Leo *	0.18	26.33	26.51
Estonia, Tele2 Estonia, Hinnaliider 75	0.18	11.70	11.87
Finland, Elisa, Elisa 250 + Tekstari 100 *	17.97	0.38	18.35
Finland, Sonera, Min Sonera - Samtal 350 + SMS 50 *	23.90	0.79	24.68
France, Orange, Forfait M6 29.90€/24 months *	29.99	18.05	48.04
France, SFR, Essentiel 3H Maxi 24 months *	39.90	7.54	47.44
Germany, T-Mobile, Relax 200 + SMS 40 *	35.59	12.62	48.21
Germany, Vodafone, Kombi Wochenende 240 SIM only *	35.64	11.39	47.03
Greece, Cosmote, Cosmote 270 + SMS 30 *	44.12	0.44	44.56
Greece, Vodafone, Vodafone 250 SMS 50 *	41.20	2.03	43.23
Hungary, Pannon, djuice post-paid 10	15.02	14.95	29.96
Hungary, T-Mobile, Relax 250	24.06	6.13	30.20
Ireland, O2, Clear 350 18 month *	50.00	0.25	50.25
Ireland, Vodafone, Perfect Choice 200 *	49.00	19.00	68.00
Italy, TIM, Tutto Compreso 30 24 month *	35.16	0.60	35.76
Italy, Vodafone, Facile Small *	24.16	24.88	49.04
Latvia, LMT, Formula 8	0.19	29.62	29.81
Latvia, Tele2 Latvia, Brivais	-	24.00	24.00
Lithuania, Omnitel, Valandos 2 *	-	9.84	9.84
Lithuania, Tele2, Čempionas *	-	21.54	21.54
Luxembourg, LuxGSM, Relax +Landlines+Tango	20.00	5.85	25.85
Luxembourg, Tango, Easy	9.00	16.17	25.17
Malta, Go, Business 1000	39.32	13.90	53.22
Malta, Vodafone Malta, Middleweight + On-net *	30.00	16.52	46.52
Netherlands, KPN, SIM-only €23.50 *	13.95	0.25	14.20
Netherlands, Vodafone, SIM only 35.00 - 2 year *	17.50	7.49	24.99
Poland, Era, New Biznes 40	13.62	12.23	25.85
Poland, Orange, poznaj nową taryfę 100 *	27.91	8.50	36.41
Portugal, TMN, Flat M + Pakot 60 SMS *	4.96	33.98	38.94
Portugal, Vodafone, Plano Best Total 2 Aditivo SMS 30 *	2.48	37.04	39.52
Romania, Orange, Flexible 20 Prices in Euro *	23.80	9.04	32.84
Romania, Vodafone, Vodafone 200 Prices in Euro *	27.37	9.99	37.36
Slovakia, Orange, Pausal 90 + SMS	22.52	26.43	48.95
Slovakia, T-Mobile, 200Viac	47.05	6.02	53.06
Slovenia, Mobitel, Povezani 11 *	11.33	29.55	40.88
Slovenia, Si.mobil Vodafone, Orto U Nulo *	10.33	13.92	24.25
Spain, MoviStar, Contrato Empresas Tramos Horarios	0.68	66.89	67.57
Spain, Vodafone, Contrato Mañana	0.68	68.15	68.83
Sweden, Tele 2 Comviq, Snackis *	10.29	5.94	16.23
Sweden, Telia, Telia Mobil Bingo 18 months *	0.70	24.16	24.86
UK, O2, Pay Monthly 400 18 month plan *	38.08	-	38.08
UK, T-Mobile, Solo 15 - 30 day SIM only *	19.04	1.45	20.49
EU simple average across all packages	18.75	16.53	35.28

Figure 7.6 High usage basket results using 2006 version of the OECD basket



7.3. Pre-paid mobile services

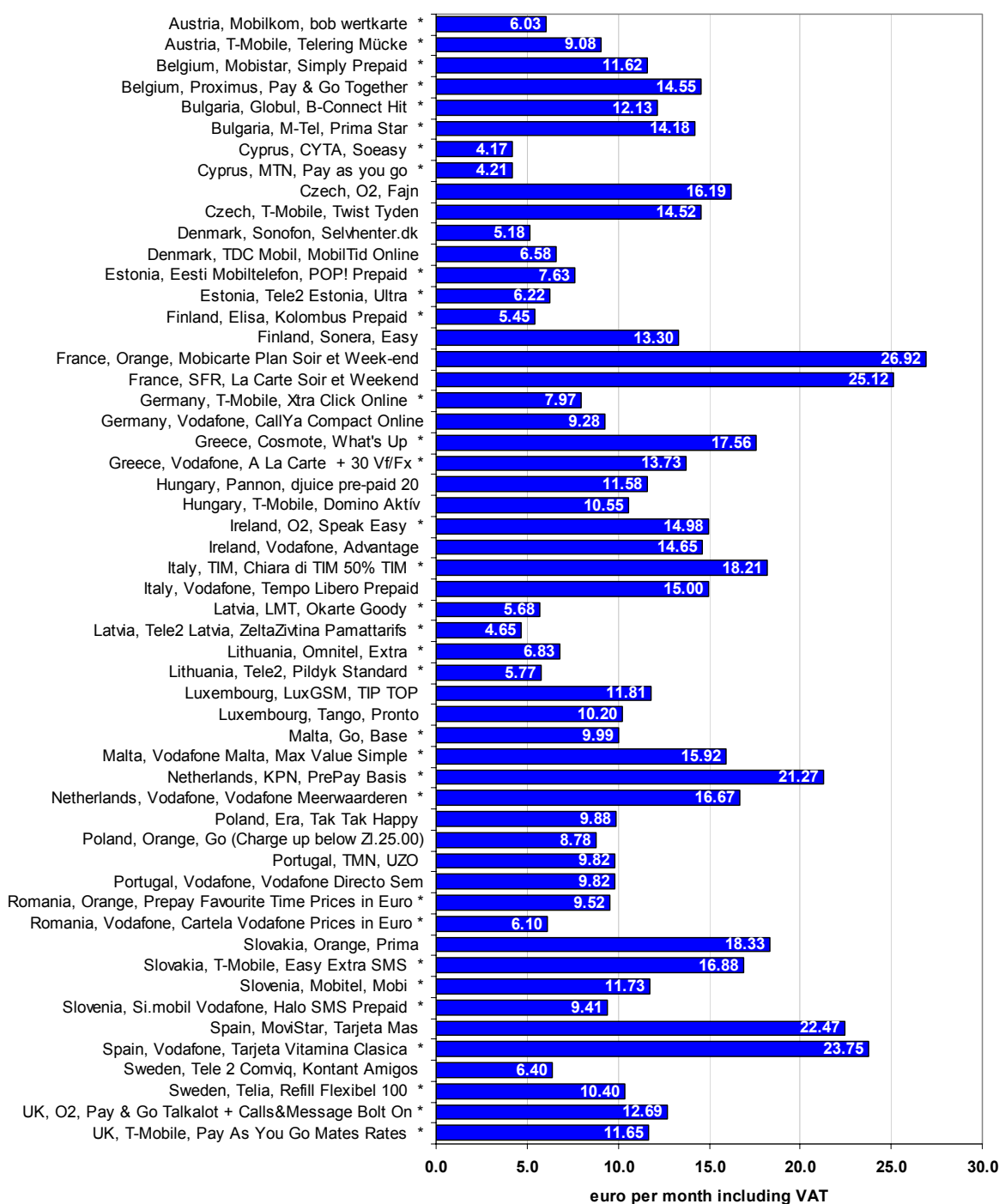
For pre-paid tariffs the low usage OECD basket (2006 version) is used. Only pre-paid tariffs are included in this analysis.

Table 7.7 Low usage basket results using 2006 version of the OECD basket, pre-paid data for 2008

Low usage Prepaid basket 2008	Fixed	Usage	Total
Austria, Mobilkom, bob wertkarte *	-	6.03	6.03
Austria, T-Mobile, Teling Mücke *	-	9.08	9.08
Belgium, Mobistar, Simply Prepaid *	0.14	11.48	11.62
Belgium, Proximus, Pay & Go Together *	-	14.55	14.55
Bulgaria, Globul, B-Connect Hit *	-	12.13	12.13
Bulgaria, M-Tel, Prima Star *	-	14.18	14.18
Cyprus, CYTA, Soeasy *	-	4.17	4.17
Cyprus, MTN, Pay as you go *	0.69	3.52	4.21
Czech, O2, Fajn	0.23	15.96	16.19
Czech, T-Mobile, Twist Tyden	3.75	10.77	14.52
Denmark, Sonofon, Selvhenter.dk	0.56	4.62	5.18
Denmark, TDC Mobil, MobilTid Online	-	6.58	6.58
Estonia, Eesti Mobiltelefon, POPI Prepaid *	0.09	7.54	7.63
Estonia, Tele2 Estonia, Ultra *	0.03	6.19	6.22
Finland, Elisa, Kolombus Prepaid *	0.28	5.17	5.45
Finland, Sonera, Easy	0.50	12.80	13.30
France, Orange, Mobicarte Plan Soir et Week-end	-	26.92	26.92
France, SFR, La Carte Soir et Weekend	0.83	24.29	25.12
Germany, T-Mobile, Xtra Click Online *	0.28	7.70	7.97
Germany, Vodafone, CallYa Compact Online	0.55	8.72	9.28
Greece, Cosmote, What's Up *	-	17.56	17.56
Greece, Vodafone, A La Carte + 30 Vf/Fx *	5.14	8.59	13.73
Hungary, Pannon, djuice pre-paid 20	0.28	11.30	11.58
Hungary, T-Mobile, Domino Aktiv	1.73	8.82	10.55
Ireland, O2, Speak Easy *	-	14.98	14.98
Ireland, Vodafone, Advantage	-	14.65	14.65
Italy, TIM, Chiara di TIM 50% TIM *	0.25	17.96	18.21
Italy, Vodafone, Tempo Libero Prepaid	-	15.00	15.00
Latvia, LMT, Okarte Goody *	-	5.68	5.68
Latvia, Tele2 Latvia, ZeltaZivtina Pamattarifs *	-	4.65	4.65
Lithuania, Omnitel, Extra *	-	6.83	6.83
Lithuania, Tele2, Pildyk Standard *	-	5.77	5.77
Luxembourg, LuxGSM, TIP TOP	1.52	10.30	11.81
Luxembourg, Tango, Pronto	-	10.20	10.20
Malta, Go, Base *	-	9.99	9.99
Malta, Vodafone Malta, Max Value Simple *	-	15.92	15.92
Netherlands, KPN, PrePay Basis *	-	21.27	21.27
Netherlands, Vodafone, Vodafone Meerwaarderen *	-	16.67	16.67
Poland, Era, Tak Tak Happy	-	9.88	9.88
Poland, Orange, Go (Charge up below Zl.25.00)	-	8.78	8.78
Portugal, TMN, UZO	-	9.82	9.82
Portugal, Vodafone, Vodafone Directo Sem Carregamentos	-	9.82	9.82
Romania, Orange, Prepay Favourite Time Prices in Euro *	-	9.52	9.52
Romania, Vodafone, Cartela Vodafone Prices in Euro *	-	6.10	6.10
Slovakia, Orange, Prima	0.40	17.92	18.33
Slovakia, T-Mobile, Easy Extra SMS *	0.32	16.56	16.88
Slovenia, Mobitel, Mobi *	-	11.73	11.73
Slovenia, Si.mobil Vodafone, Halo SMS Prepaid *	-	9.41	9.41
Spain, MoviStar, Tarjeta Mas	-	22.47	22.47
Spain, Vodafone, Tarjeta Vitamina Clasica *	-	23.75	23.75
Sweden, Tele 2 Comviq, Kontant Amigos	-	6.40	6.40
Sweden, Telia, Refill Flexibel 100 *	0.28	10.12	10.40
UK, O2, Pay & Go Talkalot + Calls&Message Bolt On *	12.69	-	12.69
UK, T-Mobile, Pay As You Go Mates Rates *	-	11.65	11.65
EU simple average across all packages	0.57	11.34	11.91

Figure 7.7 Low usage basket results using 2006 version of the OECD basket, pre-paid data

Low usage Prepaid basket 2008



7.4. Pre- and Post-paid mobile services

The following results take the cheapest service for each provider, regardless of whether the service is pre- or post-paid. The data is the same as used in sections 7.2 and 7.3 above.

Table 7.8 Low usage 2006 OECD basket, pre & post-paid data

Low usage basket Pre & Post-paid 2008	Fixed	Usage	Total
Austria, Mobilkom, bob vierer *	-	3.65	3.65
Austria, T-Mobile, Teling Mücke *	-	9.08	9.08
Belgium, Mobistar, Simply Prepaid *	0.14	11.48	11.62
Belgium, Proximus, Smile Bundle €10 + WE On-net	10.00	2.45	12.45
Bulgaria, Globul, 30+	6.13	5.29	11.43
Bulgaria, M-Tel, M-Tel Fix *	3.53	8.91	12.44
Cyprus, CYTA, Soeasy *	-	4.17	4.17
Cyprus, MTN, Pay as you go *	0.69	3.52	4.21
Czech, O2, Simple 240 *	11.92	1.85	13.77
Czech, T-Mobile, Kredit 250 *	12.44	1.56	14.00
Denmark, Sonofon, Selvhenter.dk	0.56	4.62	5.18
Denmark, TDC Mobil, MobilTid Online	-	6.58	6.58
Estonia, Eesti Mobiltelefon, POP! Prepaid *	0.09	7.54	7.63
Estonia, Tele2 Estonia, Hinnaliider 75	0.18	4.79	4.96
Finland, Elisa, Kolombus Prepaid *	0.28	5.17	5.45
Finland, Sonera, Min Sonera - Samtal 50 + SMS 50 *	9.90	0.26	10.16
France, Orange, Zap 11-18 17 euro/24 months *	17.00	-	17.00
France, SFR, Forfait Bloques 19.90 euro 24 months *	19.90	-	19.90
Germany, T-Mobile, Xtra Click Online *	0.28	7.70	7.97
Germany, Vodafone, CallYa Compact Online	0.55	8.72	9.28
Greece, Cosmote, Zero Free *	-	14.76	14.76
Greece, Vodafone, A La Carte + 30 Vf/Fx *	5.14	8.59	13.73
Hungary, Pannon, Pannon 60 + SMS 40 *	11.01	0.25	11.27
Hungary, T-Mobile, Domino Aktiv	1.73	8.82	10.55
Ireland, O2, Speak Easy *	-	14.98	14.98
Ireland, Vodafone, Advantage	-	14.65	14.65
Italy, TIM, Easy TIM New *	-	15.72	15.72
Italy, Vodafone, Tempo Libero Prepaid	-	15.00	15.00
Latvia, LMT, Okarte Goody *	-	5.68	5.68
Latvia, Tele2 Latvia, ZeltaZivtina Pamattarifs *	-	4.65	4.65
Lithuania, Omnitel, Mano 9 *	-	4.47	4.47
Lithuania, Tele2, Pildyk Standard *	-	5.77	5.77
Luxembourg, LuxGSM, Basic	-	9.82	9.82
Luxembourg, Tango, Knock-out	-	8.33	8.33
Malta, Go, Base *	-	9.99	9.99
Malta, Vodafone Malta, Max Value Simple *	-	15.92	15.92
Netherlands, KPN, SIM-only €12.50 *	7.95	-	7.95
Netherlands, Vodafone, SIM only 17.50 - 2 year *	8.75	-	8.75
Poland, Era, Zero *	-	7.49	7.49
Poland, Orange, Go (Charge up below Zl.25.00)	-	8.78	8.78
Portugal, TMN, UZO	-	9.82	9.82
Portugal, Vodafone, Vodafone Directo Sem Carregamentos	-	9.82	9.82
Romania, Orange, Prepay Favourite Time Prices in Euro *	-	9.52	9.52
Romania, Vodafone, Cartela Vodafone Prices in Euro *	-	6.10	6.10
Slovakia, Orange, Pausal 299 Sk	12.53	0.61	13.14
Slovakia, T-Mobile, 20+20Viac	8.04	5.63	13.66
Slovenia, Mobitel, Mobi *	-	11.73	11.73
Slovenia, Si.mobil Vodafone, Halo SMS Prepaid *	-	9.41	9.41
Spain, Movistar, Contrato Empresas Tramos Horarios *	0.68	17.03	17.71
Spain, Vodafone, Contrato Mañana	0.68	17.78	18.45
Sweden, Tele 2 Comviq, Kontant Amigos	-	6.40	6.40
Sweden, Telia, Refill Flexibel 100 *	0.28	10.12	10.40
UK, O2, Pay & Go Talkalot + Calls&Message Bolt On *	12.69	-	12.69
UK, T-Mobile, Pay As You Go Mates Rates *	-	11.65	11.65
EU simple average across all packages	3.02	7.35	10.36

Figure 7.8 Low usage 2006 OECD basket, pre & post-paid data

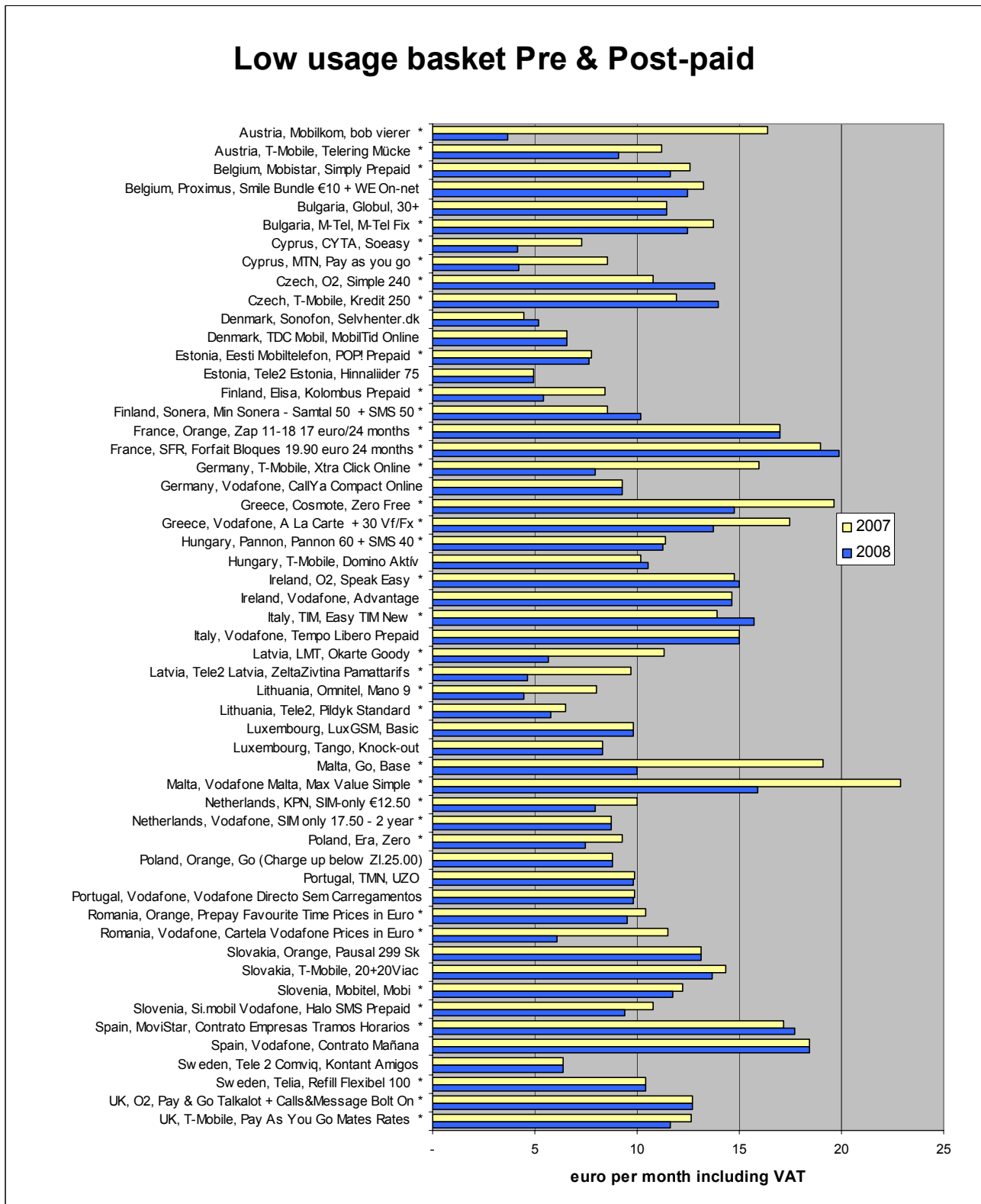


Table 7.9 Medium usage 2006 OECD basket, pre & post-paid data

Medium usage basket Pre & Post-paid 2008	Fixed	Usage	Total
Austria, Mobilkom, bob vierer *	-	7.31	7.31
Austria, T-Mobile, Teling Gūnta *	-	15.00	15.00
Belgium, Mobistar, Simply Prepaid *	0.14	26.14	26.28
Belgium, Proximus, Smile Bundle €20 + WE On-net	20.00	6.48	26.48
Bulgaria, Globul, 30+	6.13	18.82	24.95
Bulgaria, M-Tel, M-Tel Extra Pro *	7.62	13.24	20.86
Cyprus, CYTA, Soeasy *	-	9.89	9.89
Cyprus, MTN, MTN 140	8.59	0.13	8.72
Czech, O2, Mix *	0.23	27.01	27.24
Czech, T-Mobile, Twist Tyden	3.75	24.89	28.64
Denmark, Sonofon, Selvhenter.dk	0.56	11.04	11.60
Denmark, TDC Mobil, Simply *	0.37	14.32	14.69
Estonia, Eesti Mobiltelefon, Peo Leo *	0.18	13.94	14.12
Estonia, Tele2 Estonia, Hinnaliider 75	0.18	6.62	6.79
Finland, Elisa, Kolombus Prepaid *	0.28	11.17	11.44
Finland, Sonera, Min Sonera - Samtal 100 + SMS 50 *	13.90	1.89	15.79
France, Orange, Forfait M6 24.90€/24 months *	24.99	4.78	29.77
France, SFR, Forfait Bloques 29.90 euro 24 months *	29.90	-	29.90
Germany, T-Mobile, Xtra Click Online *	0.28	17.13	17.41
Germany, Vodafone, CallYa Compact Online	0.55	19.97	20.52
Greece, Cosmote, Cosmote 120 + SMS 30 *	24.74	2.44	27.17
Greece, Vodafone, Vodafone 100 SMS 50 *	24.70	3.38	28.08
Hungary, Pannon, djuice post-paid 10	15.02	-	15.02
Hungary, T-Mobile, Domino Aktiv	1.73	16.68	18.42
Ireland, O2, Unlimited Free Texts *	-	29.64	29.64
Ireland, Vodafone, Perfect Choice 100 *	29.00	3.28	32.28
Italy, TIM, Easy TIM New *	-	30.48	30.48
Italy, Vodafone, Facile Small Prepaid *	-	19.00	19.00
Latvia, LMT, Okarte Goody *	-	12.84	12.84
Latvia, Tele2 Latvia, Brivais	-	12.85	12.85
Lithuania, Omnitel, Connect Smart *	-	5.43	5.43
Lithuania, Tele2, Čempionas *	-	10.62	10.62
Luxembourg, LuxGSM, Basic	-	18.95	18.95
Luxembourg, Tango, Knock-out	-	15.96	15.96
Malta, Go, Base *	-	22.73	22.73
Malta, Vodafone Malta, Lightweight + Free minutes *	20.00	8.36	28.36
Netherlands, KPN, SIM-only €17.50 *	9.95	-	9.95
Netherlands, Vodafone, SIM only 27.50 - 2 year *	13.75	-	13.75
Poland, Era, New Biznes 20	6.81	6.82	13.62
Poland, Orange, poznaj nową taryfę 55 *	15.35	4.46	19.80
Portugal, TMN, UZO Minimum usage *	-	17.06	17.06
Portugal, Vodafone, Vodafone Directo Com Carregamentos	-	17.03	17.03
Romania, Orange, Flexible 10 Prices in Euro *	11.90	6.58	18.48
Romania, Vodafone, Cartela Vodafone Prices in Euro *	-	14.22	14.22
Slovakia, Orange, Pausal 50 + SMS	16.43	9.54	25.97
Slovakia, T-Mobile, 20+20Viac	8.04	20.62	28.66
Slovenia, Mobitel, Uniform	3.32	19.99	23.31
Slovenia, Si.mobil Vodafone, Orto U Nulo *	10.33	5.18	15.51
Spain, MoviStar, Contrato Empresas Tramos Horarios	0.68	35.21	35.89
Spain, Vodafone, Contrato Mañana *	0.68	37.31	37.99
Sweden, Tele 2 Comviq, Snackis *	10.29	1.07	11.37
Sweden, Telia, Telia Mobil Bingo 18 months *	0.70	12.21	12.91
UK, O2, Pay & Go O2 Unlimited £15 top up *	-	21.78	21.78
UK, T-Mobile, Solo 15 - 30 day SIM only *	19.04	0.72	19.76
EU simple average across all packages	6.67	12.82	19.49

Figure 7.9 Medium usage 2006 OECD basket, pre & post-paid data

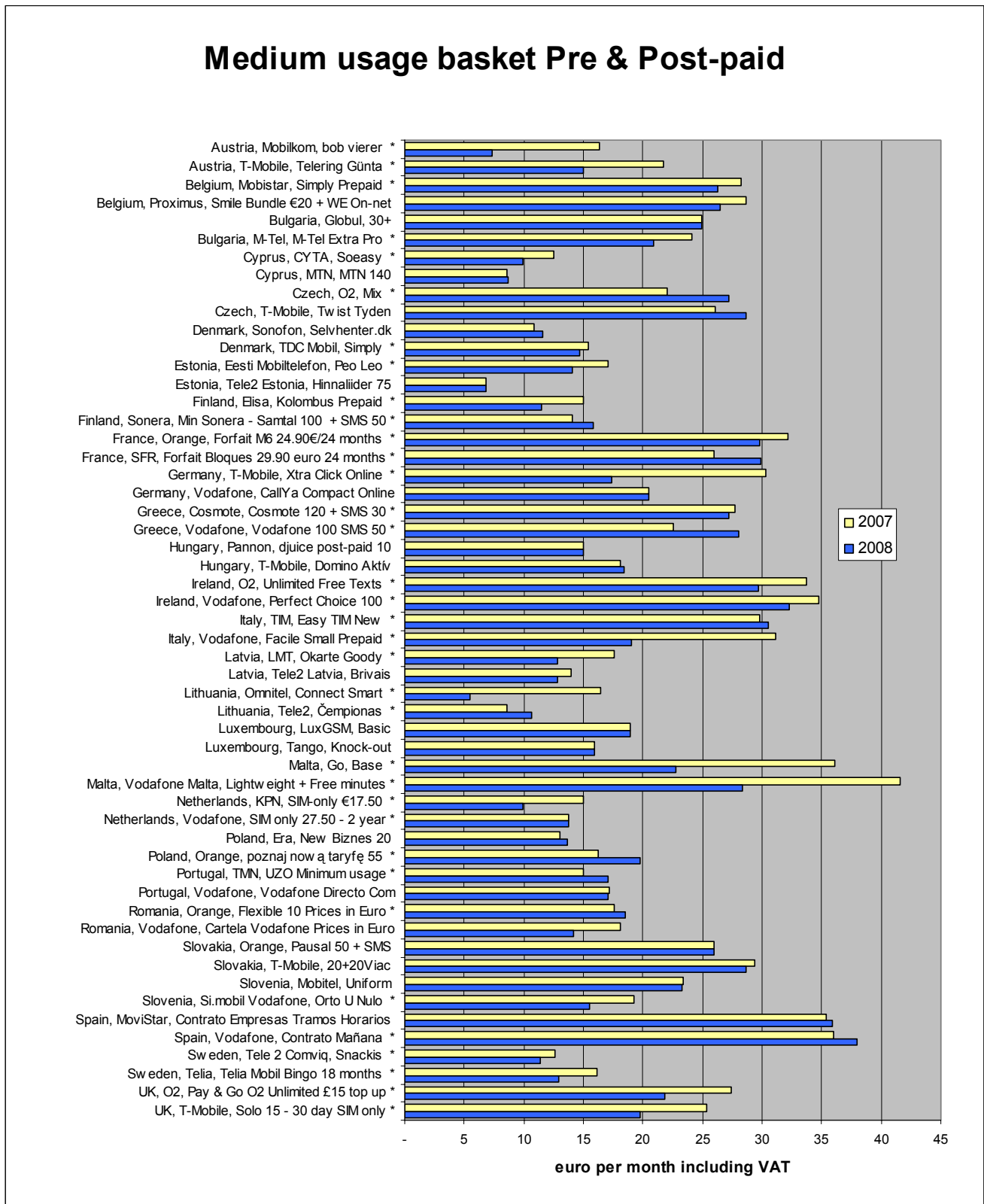
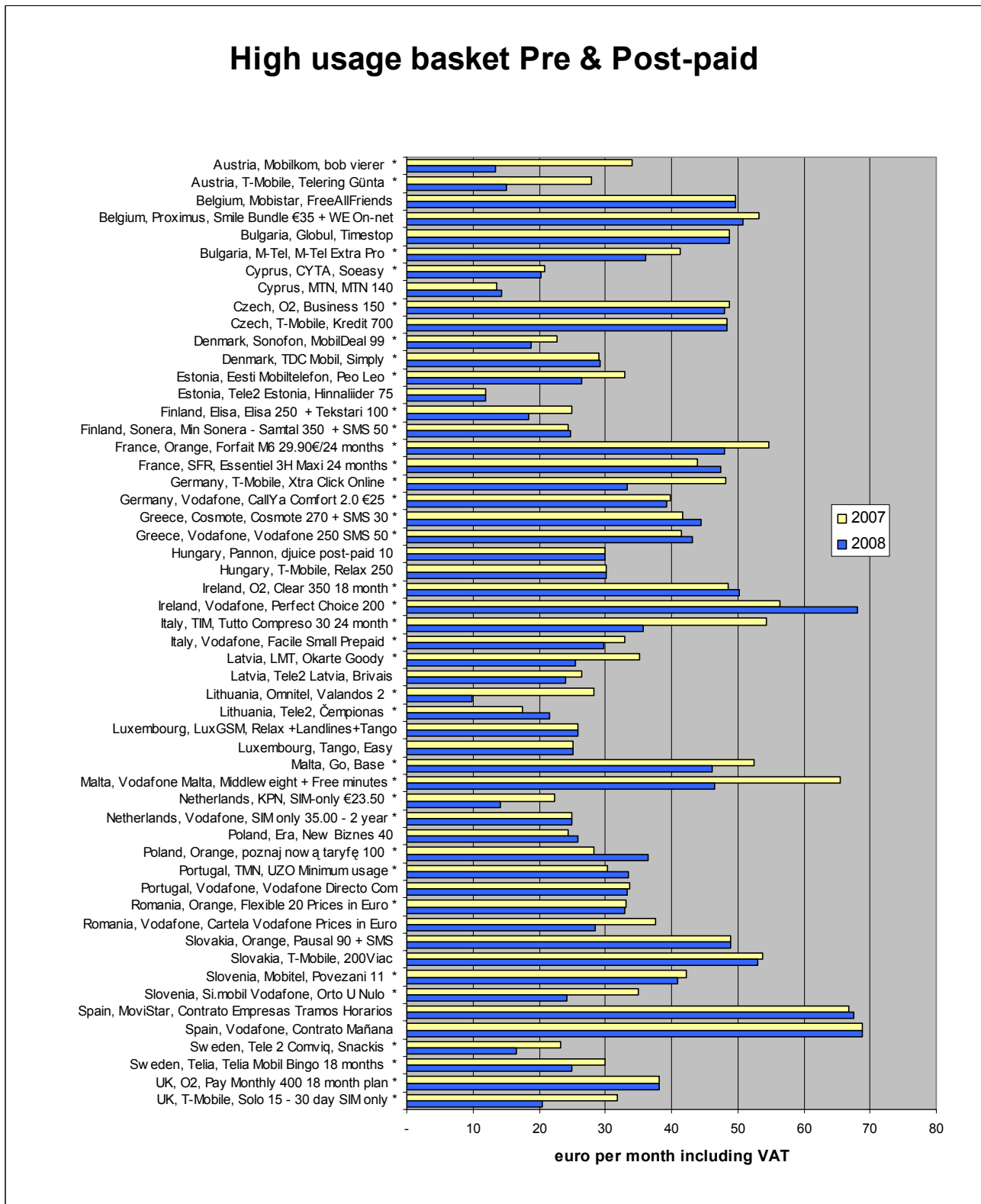


Table 7.10 High usage 2006 OECD basket, pre & post-paid data

High usage basket Pre & Post-paid 2008	Fixed	Usage	Total
Austria, Mobikom, bob vierer *	-	13.44	13.44
Austria, T-Mobile, Teling Gnta *	-	15.00	15.00
Belgium, Mobistar, FreeAllFriends	30.00	19.76	49.76
Belgium, Proximus, Smile Bundle €35 + WE On-net	35.00	15.72	50.72
Bulgaria, Globul, Timestop	5.06	43.61	48.67
Bulgaria, M-Tel, M-Tel Extra Pro *	7.62	28.44	36.06
Cyprus, CYTA, Soeasy *	-	20.22	20.22
Cyprus, MTN, MTN 140	8.59	5.67	14.26
Czech, O2, Business 150 *	29.64	18.43	48.07
Czech, T-Mobile, Kredit 700	34.59	13.84	48.43
Denmark, Sonofon, MobilDeal 99 *	0.37	18.47	18.84
Denmark, TDC Mobil, Simply *	0.37	28.93	29.30
Estonia, Eesti Mobiltelefon, Peo Leo *	0.18	26.33	26.51
Estonia, Tele2 Estonia, Hinnaliider 75	0.18	11.70	11.87
Finland, Elisa, Elisa 250 + Tekstari 100 *	17.97	0.38	18.35
Finland, Sonera, Min Sonera - Samtal 350 + SMS 50 *	23.90	0.79	24.68
France, Orange, Forfait M6 29.90€/24 months *	29.99	18.05	48.04
France, SFR, Essentiel 3H Maxi 24 months *	39.90	7.54	47.44
Germany, T-Mobile, Xtra Click Online *	0.28	33.02	33.30
Germany, Vodafone, CallYa Comfort 2.0 €25 *	-	39.21	39.21
Greece, Cosmote, Cosmote 270 + SMS 30 *	44.12	0.44	44.56
Greece, Vodafone, Vodafone 250 SMS 50 *	41.20	2.03	43.23
Hungary, Pannon, djuice post-paid 10	15.02	14.95	29.96
Hungary, T-Mobile, Relax 250	24.06	6.13	30.20
Ireland, O2, Clear 350 18 month *	50.00	0.25	50.25
Ireland, Vodafone, Perfect Choice 200 *	49.00	19.00	68.00
Italy, TIM, Tutto Compreso 30 24 month *	35.16	0.60	35.76
Italy, Vodafone, Facile Small Prepaid *	-	29.72	29.72
Latvia, LMT, Okarte Goody *	-	25.55	25.55
Latvia, Tele2 Latvia, Brivais	-	24.00	24.00
Lithuania, Omnitel, Valandos 2 *	-	9.84	9.84
Lithuania, Tele2, Ćempionas *	-	21.54	21.54
Luxembourg, LuxGSM, Relax +Landlines+Tango	20.00	5.85	25.85
Luxembourg, Tango, Easy	9.00	16.17	25.17
Malta, Go, Base *	-	46.21	46.21
Malta, Vodafone Malta, Middleweight + Free minutes *	30.00	16.52	46.52
Netherlands, KPN, SIM-only €23.50 *	13.95	0.25	14.20
Netherlands, Vodafone, SIM only 35.00 - 2 year *	17.50	7.49	24.99
Poland, Era, New Biznes 40	13.62	12.23	25.85
Poland, Orange, poznaj now taryf 100 *	27.91	8.50	36.41
Portugal, TMN, UZO Minimum usage *	-	33.42	33.42
Portugal, Vodafone, Vodafone Directo Com Carregamentos	-	33.35	33.35
Romania, Orange, Flexible 20 Prices in Euro *	23.80	9.04	32.84
Romania, Vodafone, Cartela Vodafone Prices in Euro *	-	28.51	28.51
Slovakia, Orange, Pausal 90 + SMS	22.52	26.43	48.95
Slovakia, T-Mobile, 200Viac	47.05	6.02	53.06
Slovenia, Mobitel, Povezani 11 *	11.33	29.55	40.88
Slovenia, Si.mobil Vodafone, Orto U Nulo *	10.33	13.92	24.25
Spain, MoviStar, Contrato Empresas Tramos Horarios	0.68	66.89	67.57
Spain, Vodafone, Contrato Maana	0.68	68.15	68.83
Sweden, Tele 2 Comviq, Snackis *	10.29	6.18	16.47
Sweden, Telia, Telia Mobil Bingo 18 months *	0.70	24.16	24.86
UK, O2, Pay Monthly 400 18 month plan *	38.08	-	38.08
UK, T-Mobile, Solo 15 - 30 day SIM only *	19.04	1.45	20.49
EU simple average across all packages	15.53	18.39	33.92

Figure 7.10 High usage 2006 OECD basket, pre & post-paid data



7.5. Price development of mobile services

In order to show a price trend for the years 2002 to 2008 the “2002 version” of the OECD baskets have been used. This covers post-paid packages only.

For the years 2006 to 2008 the “2006 version” of the OECD baskets are shown in separate graphs. These graphs use the best price of pre- and post-paid packages offered by each operator.

The following graphs will show the average price development for the EU countries, using a simple average across all member countries per year. The averages cover the cheapest package from the same mobile operators as listed in section 7.1 above.

Data for 2002 – 2003 refer to EU15.

Data for 2004 – 2006 refer to EU25.

Data for 2007 – 2008 refer to EU27.

Graphs start on next page.

Figure 7.11 Low usage basket average, 2002 basket version

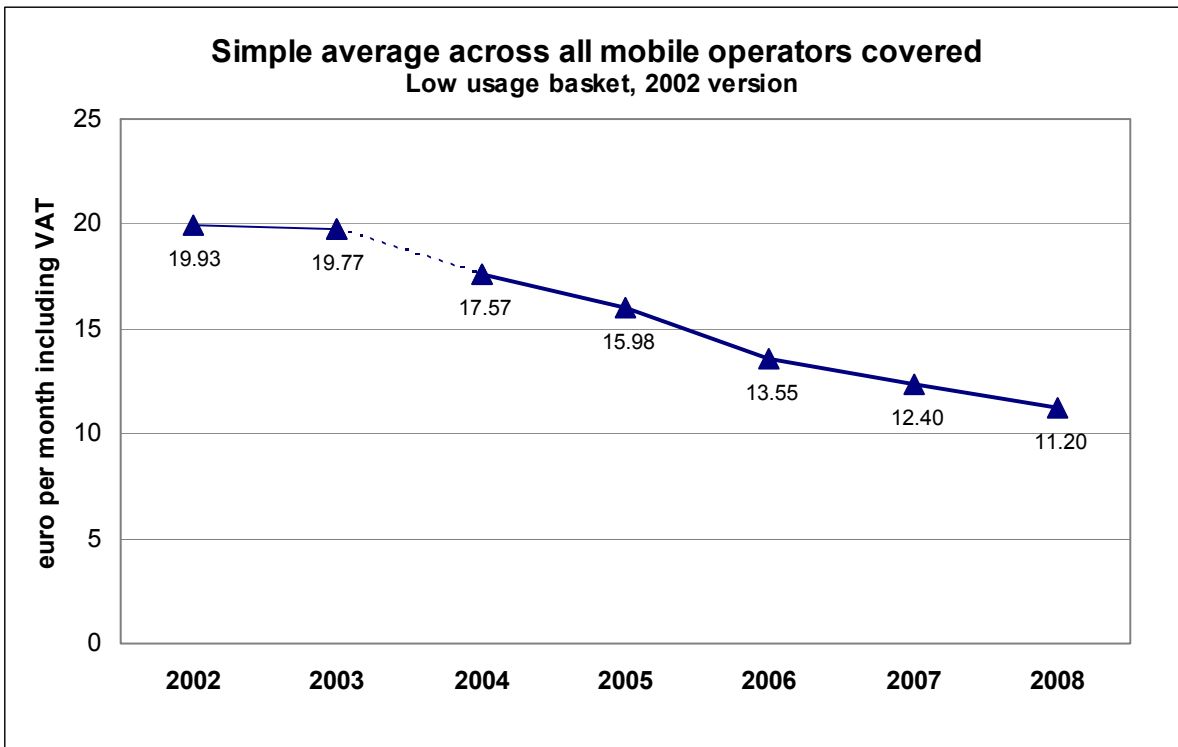


Figure 7.12 Low usage basket average, 2006 basket version

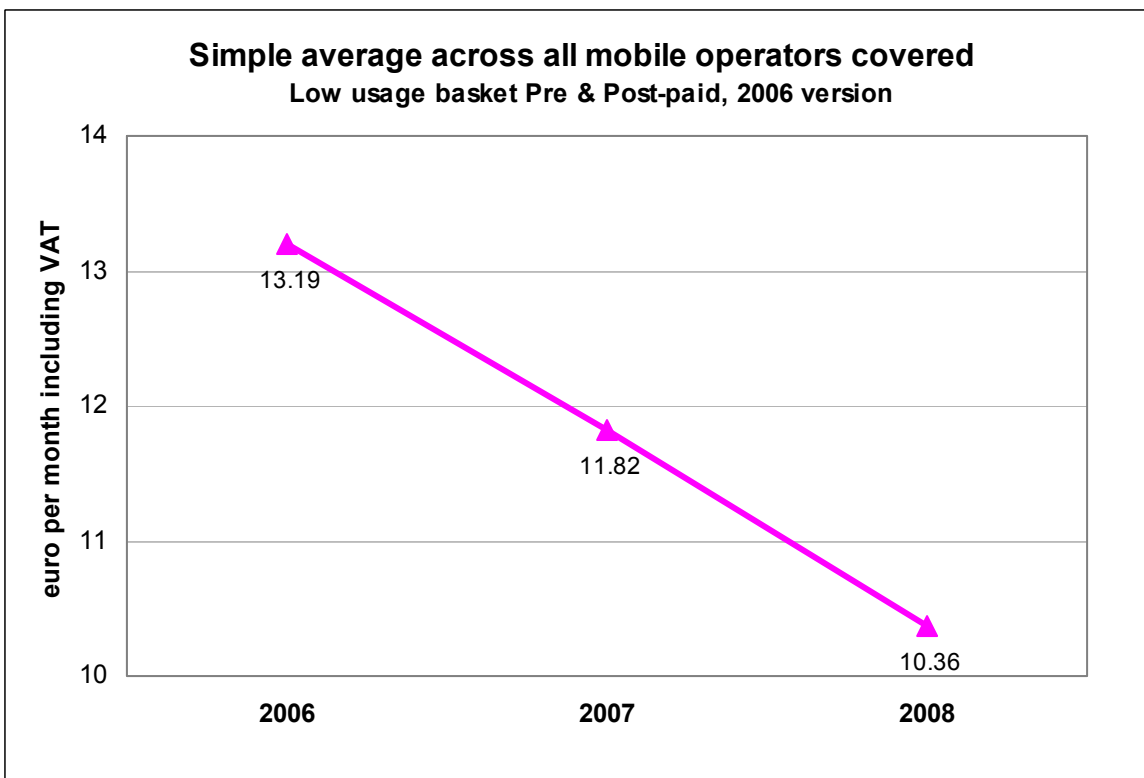


Figure 7.13 Medium usage basket average, 2002 basket version

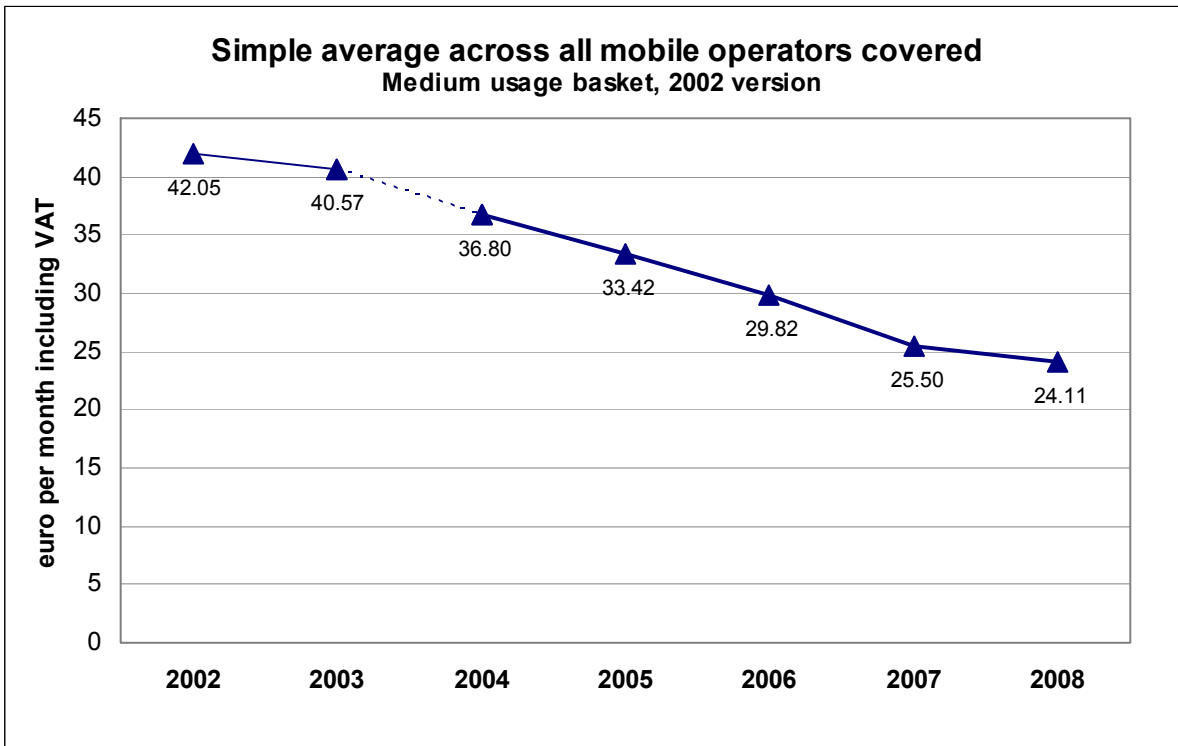


Figure 7.14 Medium usage basket average, 2006 basket version

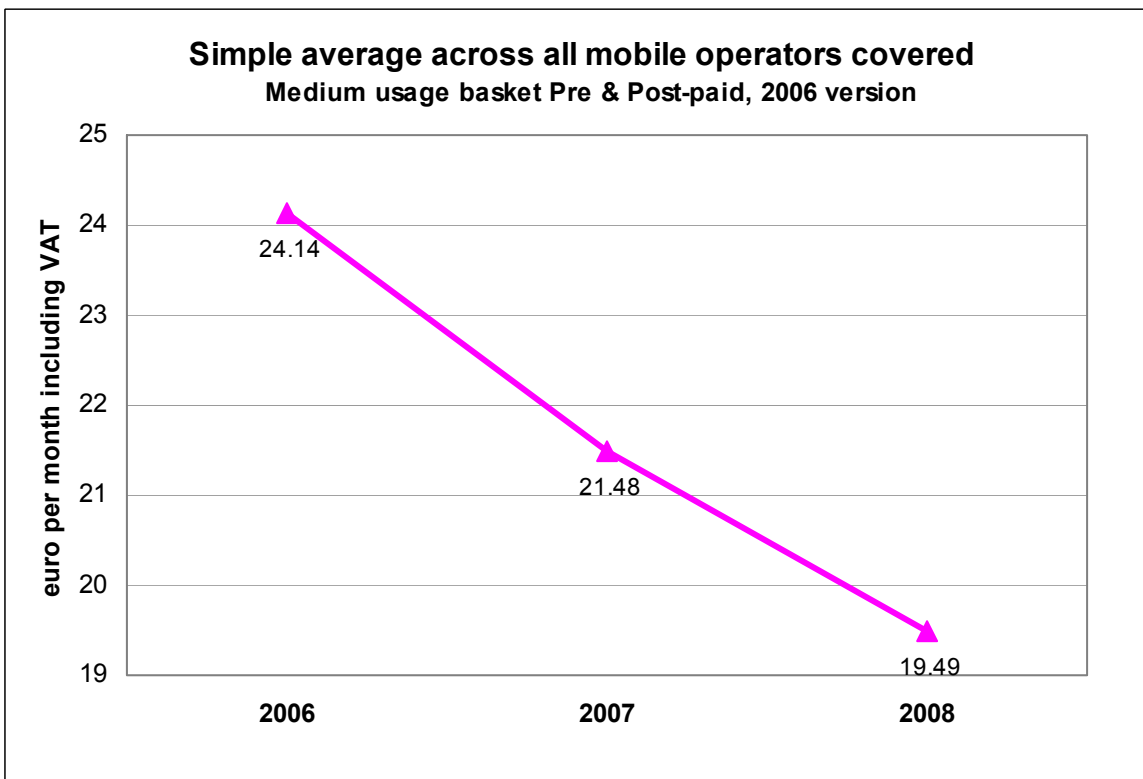


Figure 7.15 High usage basket average, 2002 basket version

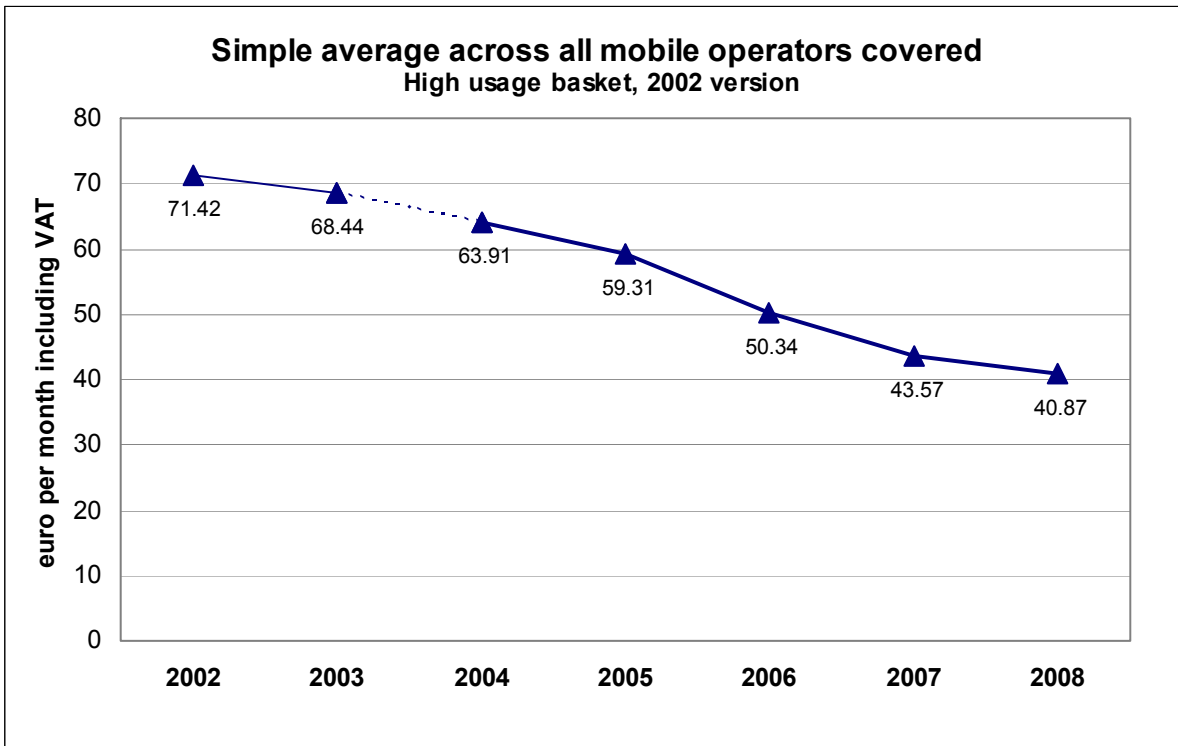
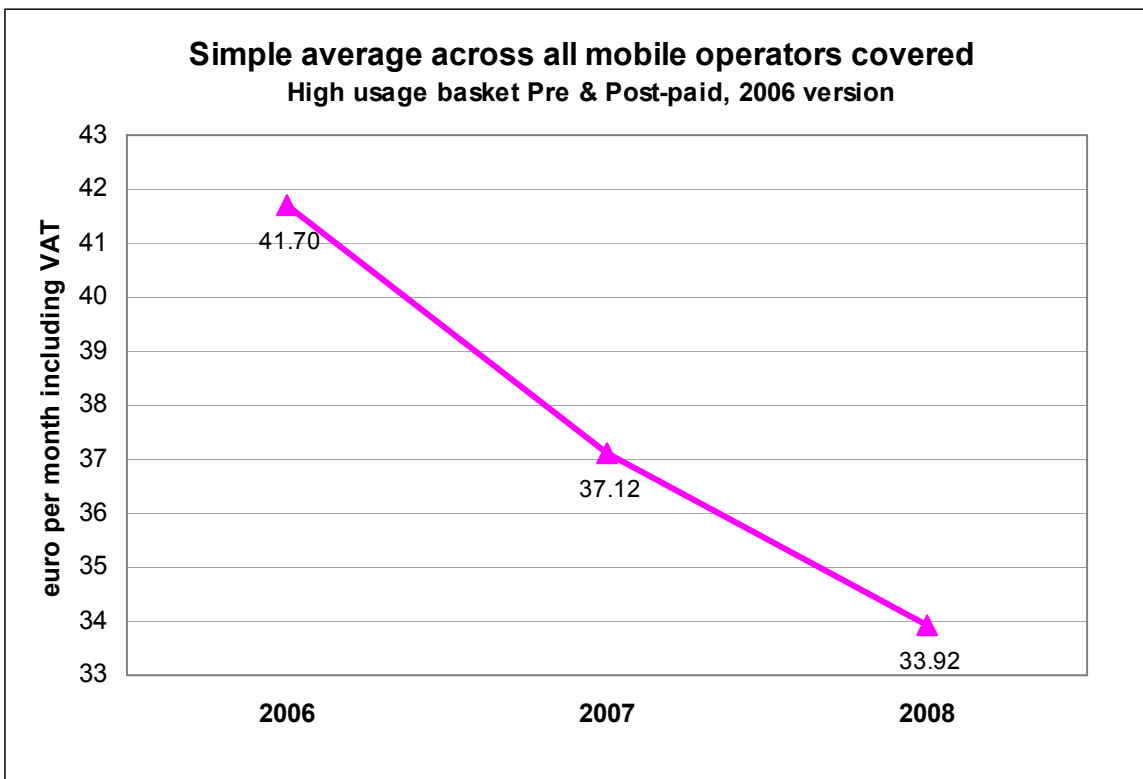


Figure 7.16 High usage basket average, 2006 basket version



7.6. Initial charges and charging method

The following table shows the minimum cost per call (i.e. the cost of a call with zero duration) for the mobile operators covered, and the charging method with initial and additional charging increments. Both pre- and post-paid packages are considered. Some operators have different methods and charges for each package, and this is also identified in the table.

Any minimum or call set up charges apply to usage outside any allowance of minutes or value associated with the tariff package. Assuming that the allowance is not exhausted in the billing period the user will not experience the charges shown in this table. This will especially apply to post-paid packages.

The table spans 16 pages.

Table 7.11 Initial charges and charging method for mobile packages

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds	
						Init. Period	Additional
Austria	Mobilkom	A1 Special Zero				60	30
		A1 Start Zero		0.2500		60	30
		A1 Classic Zero				60	30
		A1 Absolut Zero				60	30
		A1 Xcite Zero		0.1000		60	30
		A1 Easy		0.0500	0.0500	60	30
		A1 Xcite Easy		0.0500	0.0500	60	30
		B-Free 5		0.4000	0.0500	60	60
		B-Free 20		0.4000	0.2000	60	30
		bob vierer		0.0400	0.0400	60	30
	bob wertkarte		0.0680	0.0680	60	30	
	T-Mobile	Fairplay Basic				60	30
		Fairplay Smart				60	30
		Fairplay				60	30
		Fairplay Plus				60	30
		SuperFlat				60	30
		Relax Sekundentakt		0.2500		0	1
		Klax Club		0.3000	0.0500	60	30
		Klax Total		0.0900	0.0900	60	30
		tele.ring kleiner basta		0.0400	0.0400	60	60
tele.ring basta					60	30	
tele.ring günta		0.0300	0.0300	60	30		
tele.ring mücke		0.0690	0.0690	60	60		

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds	Seconds
						Init. Period	Additional
Belgium	Proximus	Smile Bundle €5		0.2500	0.2500	60	1
		Smile Bundle €10 + WE On-net		0.2500	0.2500	60	1
		Smile Bundle €20 + WE On-net		0.2350	0.2350	60	1
		Smile Bundle €35 + WE On-net		0.2200	0.2200	60	1
		Smile Bundle €55 + WE On-net		0.2000	0.2000	60	1
		Smile Bundle €75 + WE On-net		0.1800	0.1800	60	1
		Business Easy		0.1815	0.1815	60	1
		Business Intense		0.1089	0.1089	60	1
		Business Easy		0.1815	0.1815	60	1
		Business Intense		0.1089	0.1089	60	1
	Pay & Go Together		0.2900	0.2900	60	1	
	Pay & Go Generation		0.5000	0.5000	60	1	
	Pay & Go Generation		0.5000	0.5000	60	1	
	Mobistar	My10		0.2300	0.2300	60	1
		My15		0.2200	0.2200	60	1
		My45		0.2000	0.2000	60	1
		TempoMusicMonthly		0.2000	0.2000	60	1
		FreeAllFriends		0.2000		60	1
		MaxAll-in		0.1200	0.1200	60	1
		Tempo Comfort €15		0.2900	0.2900	60	1
Tempo Comfort €25			0.2400	0.2400	60	1	
Tempo Comfort €50			0.1900	0.1900	60	1	
Simply Prepaid			0.1900	0.1900	60	1	

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds	Seconds	
						Init. Period	Additional	
Bulgaria	Globul	Timestop		0.1636	0.1636	60	1	
		Basic		0.1329	0.1329	30	1	
		Globul 10		0.1125	0.1125	30	1	
		Globul 30		0.1073	0.1073	30	1	
		Globul 60		0.1022	0.1022	30	1	
		Globul 120		0.0946	0.0946	30	1	
		Globul 240		0.0895	0.0895	30	1	
		Globul 480		0.0741	0.0741	30	1	
		30+		0.1636	0.1636	60	1	
		Max		0.1636	0.1636	60	1	
		National 50		0.1636	0.1636	60	1	
		International 100		0.1636	0.1636	60	1	
		TaxOut		0.1636	0.1636	60	1	
		Smart Group		0.1636	0.1636	60	1	
		Smart		0.1636	0.1636	60	1	
		B-connect friend (pre-paid)		0.1779	0.1779	60	1	
		B-connect HIT (pre-paid)		0.1779	0.1779	60	1	
		B-connect (pre-paid)		0.2269	0.2269	60	1	
		M-Tel	M-Tel Relax 200		0.1636	0.1636	60	1
			M-Tel Extra Advance		0.1636	0.0818	60	1
	M-Tel Extra Pro			0.1840	0.0920	60	1	
	M-Tel Fix			0.0767	0.1482	60	1	
	M-Tel Comfort 100			0.1636	0.1636	60	1	
	M-Tel Comfort 200			0.1636	0.1636	60	1	
	M-Tel Comfort 500			0.1636	0.1636	60	1	
	M-Tel Fix International			0.0767	0.1482	60	1	
	M-Tel Remix 100			0.1789	0.1789	60	1	
	M-Tel Remix 200			0.1636	0.1636	60	1	
	M-Tel Remix 300			0.1176	0.1176	60	1	
	M-Tel Remix 500			0.1636	0.1636	60	1	
	M-Tel Extra			0.2453	0.0920	30	30	
	M-Tel Light		0.2453	0.1533	60	1		
	M-Tel Time		0.1533	0.1636	60	1		
M-Tel 5		0.3374	0.3374	60	1			
M-Tel 20		0.3006	0.3006	60	1			
M-Tel Prima Classic (pre-paid)		0.2760	0.2760	60	1			
M-Tel Prima Star (pre-paid)		0.3016	0.3016	60	1			
M-Tel Prima Party (pre-paid)		0.4242	0.4242	60	1			

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds	Seconds
						Init. Period	Additional
Czech Republic	O2	Neon SMS		0.2275	0.2275	60	30
		Neon S		0.2275	0.2275	60	30
		Neon M		0.2027	0.2027	60	30
		Neon L		0.2027	0.2027	60	30
		Neon XL		0.1613		60	30
		Neon XXL				60	30
		Simple 240		0.2411	0.2411	60	30
		Simple 600		0.2167	0.2167	60	30
		Simple 980		0.1870	0.1870	60	30
		Simple 1350		0.1675	0.1675	60	30
		Simple 1980		0.1427	0.1427	60	30
		Business 30		0.1725	0.1725	60	30
		Business 120		0.1477	0.1477	60	30
		Business 150		0.1084	0.1084	60	30
		Business 300		0.1328	0.1328	60	30
		Business 600		0.1233	0.1233	60	30
		Business 1200		0.1233	0.1233	60	30
		Business Nonstop				60	30
		Fajn		0.2275	0.2275	60	30
		Txt		0.3061	0.2440	60	30
		Mix		0.2813	0.1489	60	30
	T-Mobile	T 30		0.2953	0.1969	60	1
		T 80		0.2217	0.1725	60	1
		T 160		0.1969	0.1725	60	1
		T 300		0.1725	0.1725	60	1
		T 600		0.1477	0.1477	60	1
		T 1500		0.1233	0.1233	60	1
		Kredit 150		0.2461	0.2461	60	30
		Kredit 250		0.2461	0.2461	60	30
		Kredit 450		0.2215	0.2215	60	30
		Kredit 700		0.1723	0.1723	60	30
		Kredit 1200		0.1477	0.1477	60	30
		Kredit 2000		0.1231	0.1231	60	30
		Twist Start		0.2440	0.2440	60	30
		Twist ProSMS		0.2854	0.2854	60	30
		Twist Tyden		0.1448	0.1448	60	30
		Combi		0.2461	0.2461	60	1
	Vodafone	Nabito 119		0.2482	0.2482	60	1
		Nabito 350		0.2068	0.2068	60	1
		Nabito 700		0.1654	0.1654	60	1
		Nabito 1150		0.1406	0.1406	60	1
		Nabito 2100		0.1241	0.1241	60	1
		Divoká karta		0.2953	0.1233	60	1

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds Init. Period	Seconds Additional	
Cyprus	CYTA	Classic				0	1	
		Lite		0.0393	0.0393	0	1	
	MTN	MTN 140				0	1	
		MTN 350				0	1	
		MTN 900				0	1	
		MTN 1600				0	1	
Denmark	TDC Mobil	MobilExtra200	0.0389			0	1	
		Simply	0.0470			0	60	
		Only99	0.0470			0	60	
		Only199	0.0470			0	60	
		MaxSms+	0.0389			0	60	
		MaxSms Live	0.0470			0	60	
		MaxTale	0.0389			0	1	
		MaxOne	0.0470			0	60	
		MobilTid Butik	0.0671			0	1	
		Click Minut	0.0470			0	60	
		Click Sekund	0.0389			0	1	
		Mobil Flex	0.0386			0	1	
		Sonofon	Base	0.0389			0	1
			Base +	0.0389			0	1
			Base SMS	0.0389			0	60
			Limbo	0.0470			0	1
	Limbo Super		0.0470			0	1	
	Fri Fritid		0.0389			0	1	
	Fri Snak		0.0389			0	1	
	Shaker		0.0389			0	1	
	Shaker Super		0.0389			0	1	
	Shaker Extreme					0	1	
	MobilDeal 99					0	1	
	MobilDeal 199				0	1		
	MobilDeal 299				0	1		
	MobilDeal 399				0	1		
			Selvhenter.dk	0.0389			0	60
		Taletid	0.0671			0	1	
Estonia	EMT Estonia	EMT Uus pakett Diil 69	0.0632	0.0440	0.0440	0	60	
		EMT Diil Hinnajalgija	0.0504	0.0504	0.0504	0	1	
		Pakett Diil 99		0.0632	0.0632	0	10	
	Tele2 Estonia	Tele2 Hinnaliider 100		0.0479	0.0479	0	1	
		Tele2 Hinnaliider 75	0.0479	0.0479	0.0479	0	1	
		Tele2 Hinnaliider 59	0.0632	0.0377	0.0377	0	1	
		Tele2 Hinnaliider 45		0.0957	0.0957	0	1	

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds Init. Period	Seconds Additional
Finland	Sonera	Min Sonera	0.0490	0.0790	0.0790	60	60
		Min Sonera - Samtal 50	0.0490	0.0790	0.0790	60	60
		Min Sonera - Samtal 100	0.0490	0.0790	0.0790	60	60
		Min Sonera - Samtal 200	0.0490	0.0790	0.0790	60	60
		Min Sonera - Samtal 350	0.0490	0.0790	0.0790	60	60
		Min Sonera - Samtal 500	0.0490	0.0790	0.0790	60	60
		Min Sonera - Samtal 800	0.0490	0.0790	0.0790	60	60
		Min Sonera - Samtal 1200	0.0490	0.0790	0.0790	60	60
		Min Sonera - Samtal 1500	0.0490	0.0790	0.0790	60	60
		Min Sonera - Samtal 2000	0.0490	0.0790	0.0790	60	60
		Min Sonera - Samtal 3000	0.0490	0.0790	0.0790	60	60
		Min Sonera - Samtal 4000	0.0490	0.0790	0.0790	60	60
		Easy				0	60
		Elisa	Elisa 70				0
	Elisa 250					0	1
	Elisa 400					0	1
	Elisa 700					0	1
	Elisa 1000					0	1
	Elisa 1500					0	1
	Elisa 2000					0	1
	Oiva					0	1
	Kolombus Prepaid					0	1
	Kolombus P1					0	1
	Kolombus P2					0	1
	Kolombus P1					0	1
	Kolombus P2					0	1
	Kolombus K1				0	1	
Kolombus KK				0	1		
Kolombus T1				0	1		

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds	Seconds
						Init. Period	Additional
France	Orange	Initial				0	1
		Initial Forfait 20				0	1
		Initial Forfait 60				0	1
		Zap 11-18 15 euro/24 months				0	1
		Zap 11-18 17 euro/24 months				0	1
		Zap 11-18 22 euro/24 months				0	1
		Forfait M6 19.90€/24 months				0	1
		Forfait M6 24.90€/24 months				0	1
		Forfait M6 29.90€/24 months				0	1
		Forfait Origami Zen 1h				0	1
		Forfait Origami Zen 2h				0	1
		Forfait Origami Zen 3h				0	1
		Forfait Origami Zen 4h				0	1
		Forfait Origami Star 1h				0	1
		Forfait Origami Star 2h				0	1
		Forfait Origami Star 3h				0	1
		Forfait Origami Star 4h				0	1
		Forfait Origami Star 6h				0	1
		Forfait Origami First 3h				0	1
		Forfait Origami First 4h				0	1
		Forfait Origami First 6h				0	1
		Forfait Origami First 8h				0	1
		Ajustable pro 3h				0	1
		Ajustable pro 4h				0	1
		Ajustable pro 6h				0	1
		Ajustable pro 8h				0	1
		Ajustable pro 10h				0	1
		Mobicarte Plan Classique				0	1
		Mobicarte Plan Soir et Week-end				0	1
	SFR	Les Minis de SFR				0	1
		Les Minis de SFR 20				0	1
		Les Minis de SFR 40				0	1
		Les Minis de SFR 60				0	1
		Essentiel 1H				0	1
		Essentiel 2H				0	1
		Essentiel 3H				0	1
		Essentiel 1H Maxi				0	1
		Essentiel 2H Maxi				0	1
		Essentiel 3H Maxi				0	1
		Essentiel Pro Ajustable 2H				0	1
		Essentiel Pro Ajustable 3H				0	1
		Essentiel Pro Ajustable 4H				0	1
		Essentiel Pro Ajustable 6H				0	1
		Essentiel Pro Ajustable 8H				0	1
		Essentiel Pro Ajustable 10H				0	1
		Illimythics Pro 3H				0	1
		Illimythics Pro 4H				0	1
		Illimythics Pro 5H				0	1
		Illimythics Pro 6H				0	1
		Illimythics Pro 10H				0	1
		Illimythics Pro 15H				0	1
		Illimythics Pro 25H				0	1
		Forfait Bloques 19.90 euro				0	1
		Forfait Bloques 24.90 euro				0	1
		Forfait Bloques 29.90 euro				0	1
		Forfait Bloques 35.90 euro				0	1
		La Carte				0	1
		La Carte Soir et Weekend				0	1

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds	
						Init. Period	Additional
Germany	T-Mobile	Basix		0.2900	0.2900	60	1
		Relax 50		0.2900	0.2900	60	1
		Relax 200		0.2900	0.2900	60	1
		Relax 1000		0.0900	0.0900	60	1
		MAX S			0.2900	60	1
		MAX M				60	1
		MAX L				60	1
		Xtra Card		0.2900	0.0500	60	1
		Xtra Nonstop		0.2900	0.2900	60	1
		Xtra Click Online		0.1900	0.0500	60	1
	Vodafone	SuperFlat				60	1
		SuperFlat XL				60	1
		Kombi Wochenende 60		0.4500	0.4500	60	1
		Kombi Wochenende 120		0.4000	0.4000	60	1
		Kombi Wochenende 240		0.3500	0.3500	60	1
		Kombi Wochenende 480		0.3000	0.3000	60	1
		Kombi Wochenende 1200		0.2500	0.2500	60	1
		KombiComfort Wochenende		0.2900	0.2900	60	1
		BusinessBasic		0.4200	0.3000	60	1
		BusinessAktiv		0.3000	0.2300	60	1
		BusinessClassic		0.1400	0.1400	60	1
		BusinessKombiPaket WE 60		0.4500	0.4500	60	1
		BusinessKombiPaket WE 120		0.4000	0.4000	60	1
		BusinessKombiPaket WE 240		0.3500	0.3500	60	1
		BusinessKombiPaket WE 480		0.3000	0.3000	60	1
		BusinessKombiPaket WE 1200		0.2500	0.2500	60	1
		BusinessKombiComfort WE		0.2900	0.2900	60	1
		CallYa Compact		0.2500	0.0500	60	1
		CallYa OpenEnd	0.2900			60	1
		CallYa Comfort 2.0 €0		0.2900	0.2900	60	1
		CallYa Comfort 2.0 €15		0.2900	0.0500	60	1
		CallYa Comfort 2.0 €25		0.1900	0.0500	60	1

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds	Seconds
						Init. Period	Additional
Greece	Cosmote	Zero Free		0.1350	0.1350	30	1
		Basic		0.1080	0.1080	30	1
		Cosmote 60		0.1260	0.1260	30	1
		Cosmote 120		0.1230	0.1230	30	1
		Cosmote 150		0.1230	0.1230	30	1
		Cosmote 180		0.1200	0.1200	30	1
		Cosmote 210		0.1230	0.1230	30	1
		Cosmote 270		0.1230	0.1230	30	1
		Cosmote 300		0.1140	0.1140	30	1
		Cosmote 360		0.1140	0.1140	30	1
		Cosmote 480		0.1140	0.1140	30	1
		Cosmote 600		0.1110	0.1110	30	1
		Cosmote 720		0.1110	0.1110	30	1
		Cosmote 1000		0.1080	0.1080	30	1
		Pro Individual 120		0.1170	0.1170	30	1
		Pro Individual 240		0.1170	0.1170	30	1
		Pro Individual 360		0.1170	0.1170	30	1
		Pro Individual 600		0.1170	0.1170	30	1
		Pro Individual 1000		0.1170	0.1170	30	1
		Pro Individual 120 S		0.1170	0.1170	30	1
		Pro Individual 240 S		0.1170	0.1170	30	1
		Pro Individual 360 S		0.1170	0.1170	30	1
		Pro Individual 600 S		0.1170	0.1170	30	1
		Pro Individual 1000 S		0.1170	0.1170	30	1
		Cosmokarta		0.1770	0.1770	30	1
		Cosmokarta		0.1260	0.1260	30	1
		What's Up		0.1770	0.1770	30	1
	Vodafone	Vodafone No Fee		0.1380	0.1380	30	1
		Vodafone 10		0.1320	0.1320	30	1
		Vodafone 100		0.1320	0.1320	30	1
		Vodafone 150		0.1320	0.1320	30	1
		Vodafone 200		0.1260	0.1260	30	1
		Vodafone 250		0.1260	0.1260	30	1
		Vodafone 300		0.1260	0.1260	30	1
		Vodafone 350		0.1260	0.1260	30	1
		Vodafone 400		0.1260	0.1260	30	1
		Vodafone 500		0.1260	0.1260	30	1
		Vodafone 700		0.1260	0.1260	30	1
		Vodafone 900		0.1260	0.1260	30	1
		Vodafone Business 90		0.1000	0.0309	30	1
		Vodafone Business 180		0.1000	0.0309	30	1
		Vodafone Business 300		0.1000	0.0309	30	1
		Vodafone Business 420		0.1000	0.0309	30	1
		Vodafone Business 540		0.1000	0.0309	30	1
		Vodafone Business 720		0.0964	0.0309	30	1
		Vodafone Business 960		0.0964	0.0309	30	1
		A La Carte		0.1770	0.1770	30	1
		A La Carte		0.1260	0.1260	30	1
		CU		0.1740	0.1740	30	1

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds	
						Init. Period	Additional
Hungary	T-Mobile	Társalgó				0	60
		Szervusz				0	60
		Eco				0	60
		MobilOtthon Premium				0	60
		MobilOtthon Premium				0	60
		MobilOtthon Premium				0	60
		Partner 1				0	60
		Partner 2				0	60
		Partner 3				0	60
		Partner 4				0	60
		Kameleon				0	60
		Kameleon				0	60
		Kameleon				0	60
		Kameleon				0	60
		Relax 100				0	60
		Relax 250				0	60
		Relax 500				0	60
		Relax 1000				0	60
		Domino				0	60
		Domino Aktiv				0	60
		Domino SMS				0	60
		Domino 7				0	60
		Domino Egyenlítő				0	60
		Domino Nap				0	60
	Pannon	Pannon 60				0	60
		Pannon 120				0	60
		Pannon 180				0	60
		Pannon 360				0	60
		Pannon 600				0	60
		Pannon 1200				0	60
		Uzleti Alap				0	1
		Uzleti Pro 1				0	1
		djuice post-paid 10				0	1
		Pannon Praktikum				0	60
		Pannon Praktikum on-net				0	60
		Pannon Praktikum off-peak				0	60
		Pannon Limit				0	60
		djuice pre-paid 20				0	60

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds			
						Init. Period	Additional		
Ireland	O2	Clear 50				0	1		
		Clear 175				0	1		
		Clear 350				0	1		
		Clear 600				0	1		
		Clear Unlim O2				0	1		
		Clear Unlim O2&Fixed				0	1		
		Speak Easy		0.0500	0.0500	60	60		
		Unlimited Free Texts		0.0500	0.0500	60	60		
		Release				0	1		
		Business Unlimited				0	1		
		Business National				0	1		
		Business Flat				0	1		
		Business Time 175				0	1		
		Business Time 350				0	1		
	Business Time 600				0	1			
	Vodafone	Perfect Choice 50				0	1		
		Perfect Choice 100				0	1		
		Perfect Choice 200				0	1		
		Perfect Choice 400				0	1		
		Perfect Choice 600				0	1		
		Lifestyle		0.0300	0.0300	60	60		
		Advantage		0.0300	0.0300	60	60		
		Advantage Plus		0.0600	0.0600	60	60		
		Italy	TIM	Chiara di TIM Base	0.1900			0	60
				Chiara di TIM 50% TIM	0.1900			0	60
				TIM Tribu Base	0.1600			0	1
				Easy TIM New				0	60
Affare Fatto							0	1	
1 cent H24 New						0	1		
Tutto Compreso Pro 45						0	1		
Tutto Compreso Pro 70						0	1		
Tutto Compreso Pro Unlimited						0	1		
Tutto Compreso 30						0	1		
Tutto Compreso 60						0	1		
Tutto Compreso 90						0	1		
Tutto Compreso Unlimited						0	1		
TIM Unica	0.1500					0	1		
TIM Unica 10	0.1500				0	1			
Vodafone	Facile Small					0	1		
	Facile Medium					0	1		
	Facile Large					0	1		
	Tempo Libero					0	1		
	Stile Libero		0.1600			0	30		
	6 Libero		0.1600			0	30		
	Vodafone Small Business 5		0.1620			0	1		
	Vodafone Small Business 12					0	1		
	MioBusiness Zero					0	1		
	MioBusiness Zero					0	1		
	MioBusiness Tutto					0	1		
	Tempo Libero Prepaid					0	1		
	Facile Small Prepaid				0	30			
Vodafone & You New	0.1600			0	60				
Tutti	0.1600			0	60				

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds Init. Period	Seconds Additional	
Latvia	LMT	Formula 8				0	1	
		Formula 18				0	1	
		Formula 28				0	1	
	Tele2 Latvia	Call me					0	1
		Start					0	1
		Active					0	1
		Vienotais					0	1
	Brivais		0.0458			0	1	
Lithuania	Omnitel	Mano 9		0.0829	0.0829	60	1	
		Valandos 2		0.0543	0.0543	60	1	
		Valandos 5		0.0543	0.0543	60	1	
		Connect Smart		0.0829	0.0829	60	1	
		Verslui 1		0.0715	0.0715	60	1	
		Verslui 2		0.0715	0.0543	60	1	
		Verslui 3		0.0543	0.0543	60	1	
		Verslui 4		0.0486	0.0486	60	1	
		Verslui 5		0.0458	0.0257	60	1	
		Tele2	Mini (private)		0.0486	0.0486	60	1
		Cempionas 59/29 (private)		0.0829	0.0829	60	1	
		Laisve 18M/49 M (private)		0.0515	0.0515	60	1	
		Plepys (private)		0.0715		60	1	
		Standartinis1 (private)		0.1859	0.0715	60	1	
		Sekunde (private)		0.2860	0.2860	1	1	
		Laisvalaikis (private)		0.0715	0.0715	60	30	
		Verslas 20/40 (business)		0.0858	0.0429	60	30	
	Verslas 60/90 (business)		0.0715	0.0257	60	30		
	Verslas 15		0.0429	0.0429	60	1		
	Verslo laisve 15		0.0315	0.0315	60	1		
Luxembourg	LuxGSM	Basic		0.1200	0.1000	60	60	
		Relax		0.1000		60	15	
		Relax Youz		0.1000	0.1000	60	60	
		TIP TOP		0.1240	0.0744	60	12	
		Relax Pro				0	1	
	Tango	Knock-out		0.0900	0.0900	60	60	
		Easy		0.0900		60	15	
	Pronto		0.1200	0.0700	60	15		
Malta	Go	Go Together		0.2300	0.2300	60	1	
		Business 1000	0.1000	0.0500	0.0500	30	30	
		Pay Monthly €20		0.2500	0.2500	60	1	
		Pay Monthly €40		0.2100	0.2100	60	1	
		Pay Monthly €60		0.1900	0.1900	60	1	
		Pay as you go - Base		0.1900	0.1900	30	30	
		Pay as you go - Simple		0.2800	0.2800	60	30	
		Pay as you go - Club		0.2800	0.2800	60	1	
		Pay as you go - Talk		0.1600	0.0700	30	30	
	Vodafone Malta	Lightweight		0.0200	0.0200	0	1	
		Middleweight		0.0200	0.0200	0	1	
	Heavyweight		0.0200	0.0200	0	1		
	Max Value Simple		0.1600	0.1600	30	30		
	Max Value Text		0.4700	0.4700	60	30		

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds	
						Init. Period	Additional
Netherlands	KPN	SIM-only €12.50		0.2500	0.2500	60	1
		SIM-only €17.50		0.2500	0.2500	60	1
		SIM-only €23.50		0.2500	0.2500	60	1
		SIM-only €34.50		0.2500	0.2500	60	1
		Flexibel Tarief	0.0700	0.1500	0.1500	60	1
		Flexibel 20		0.2500	0.2500	60	1
		Flexibel 22.5		0.2500	0.2500	60	1
		Flexibel 27.5		0.2500	0.2500	60	1
		Flexibel 32.5		0.2500	0.2500	60	1
		Flexibel 45		0.2500	0.2500	60	1
		Flexibel 65		0.2500	0.2500	60	1
		Flexibel 90		0.2500	0.2500	60	1
		Flexibel 110		0.2500	0.2500	60	1
		Flexibel 130		0.2500	0.2500	60	1
		Flexibel 160		0.2500	0.2500	60	1
		Flexibel 200		0.2500	0.2500	60	1
		Business Select	0.0678	0.0714	0.1428	60	1
	Business Bundle 22.50		0.1785	0.1785	60	1	
	Business Bundle 35.00		0.1785	0.1785	60	1	
	Business Bundle 50.00		0.1785	0.1785	60	1	
	Business Bundle 90.00		0.1785	0.1785	60	1	
	Business Bundle 130.00		0.1785	0.1785	60	1	
	PrePay Basis		0.1667	0.1667	60	180	
	PrePay Standard	0.0700	0.3500	0.3500	60	1	
	PrePay Dal-en-plek	0.0700	0.4500	0.4500	60	1	
	PrePay Dalend	0.0700	0.4000	0.4000	60	1	
	Vodafone	Basis 12.50		0.2500	0.2500	60	1
		Basis 17.50		0.2500	0.2500	60	1
		Basis 22.50		0.2500	0.2500	60	1
		Basis 27.50		0.2500	0.2500	60	1
		Basis 35.00		0.2500	0.2500	60	1
		Basis 50.00		0.2500	0.2500	60	1
		Basis 70.00		0.2500	0.2500	60	1
Basis 100.00			0.2500	0.2500	60	1	
Basis 150.00			0.2500	0.2500	60	1	
SIM only 12.50			0.2500	0.2500	60	1	
SIM only 17.50			0.2500	0.2500	60	1	
SIM only 22.50			0.2500	0.2500	60	1	
SIM only 27.50			0.2500	0.2500	60	1	
SIM only 35.00			0.2500	0.2500	60	1	
SIM only 50.00			0.2500	0.2500	60	1	
Vodafone Prepaid			0.3500	0.3500	60	1	
Vodafone Meerwaarderen		0.3000	0.3000	60	1		

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds			
						Init. Period	Additional		
Poland	Era	Nowa Era 20				0	1		
		Nowa Era 40				0	1		
		Nowa Era 60				0	1		
		Nowa Era 80				0	1		
		Nowa Era 100				0	1		
		Nowa Era 120				0	1		
		Nowa Era 200				0	1		
		Relaks				0	1		
		Zero				0	1		
		New Biznes 10				0	1		
		New Biznes 20				0	1		
		New Biznes 40				0	1		
		New Biznes 70				0	1		
		New Biznes 120				0	1		
		New Biznes 230				0	1		
		New Biznes Prestiz				0	1		
		Tak Tak Happy				0	1		
		Orange	poznaj nową taryfę 25					0	1
			poznaj nową taryfę 35					0	1
			poznaj nową taryfę 55					0	1
	poznaj nową taryfę 75						0	1	
	poznaj nową taryfę 100						0	1	
	poznaj nową taryfę 200						0	1	
	Orange dla Firm 40						0	1	
	Orange dla Firm 80						0	1	
	Orange dla Firm 160						0	1	
	Orange dla Firm 320						0	1	
	Orange dla Firm 600						0	1	
	Go						0	1	
	Portugal	TMN	POP				0	1	
			Pack t M		0.3000		60	30	
			Pack t L		0.2000		60	30	
Pack t XL				0.1000		60	30		
Rede t				0.3900	0.0350	60	30		
Flat S				0.1490	0.1490	60	30		
Flat M				0.1290	0.1290	60	30		
Flat L				0.0990	0.0990	60	30		
+ Perto				0.5940	0.0500	60	10		
+ Perto SMS				0.3220	0.0500	60	10		
Mimo				0.4030	0.1510	60	10		
Plano				0.2520	0.2520	60	10		
Plano ao segundo				0.0390	0.0390	10	1		
Leve				0.3520	0.3520	60	10		
Leve ao segundo				0.1680	0.1680	30	1		
Pako				0.5940	0.2520	60	10		
Passaporte				0.4630	0.2070	60	10		
UZO sem carregamentos				0.1580	0.1580	60	10		
UZO com carregamentos				0.1190	0.1190	60	10		
VIP's				0.3230	0.1620	60	10		
VIP's SMS			0.3220	0.1580	60	10			
Vodafone		Plano Best Total Base		0.1490	0.1490	60	30		
		Plano Best Total Plus		0.1290	0.1290	60	30		
		Plano Best Total Max		0.0990	0.0990	60	30		
		Plano Best 91 Base		0.3990	0.0990	60	30		
		Plano Best 91 Plus		0.2890		60	30		
		Plano Best 91 Max		0.1490		60	30		
		Plano Best 91 TOP		0.0990		60	30		
		Plano Best ao segundo		0.0300	0.0300	10	1		
		Vodafone Directo com carregamentos		0.1189	0.1189	60	10		
		Vodafone Directo sem carregamentos		0.1585	0.1585	60	10		
		YORN Power Extravaganza		0.1984	0.1190	60	1		
	YORN Power SMS		0.3220	0.1580	60	1			
Vita 91 Extreme		0.1984	0.1786	60	10				
Vita 91 SMS		0.3220	0.1580	60	10				
Vita Total		0.1884	0.1884	60	10				
Vita Light Bonus		0.5147	0.2063	60	10				
Vita Light Total		0.2876	0.2876	60	10				
Vita Light Total ao segundo		0.2876	0.2876	60	10				

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds	
						Init. Period	Additional
Romania	Orange	3 Euro plan		0.1309	0.1309	60	1
		Included minutes 60		0.1190	0.1190	60	1
		Included minutes 120		0.1071	0.1071	60	1
		Included minutes 180		0.0952	0.0952	60	1
		Included minutes 300		0.0833	0.0833	60	1
		Included minutes 600		0.0833	0.0833	60	1
		Included minutes 1000		0.0833	0.0833	60	1
		Flexible 7		0.1309	0.1309	60	1
		Flexible 10		0.1309	0.1309	60	1
		Flexible 15		0.1190	0.1190	60	1
		Flexible 20		0.1071	0.1071	60	1
		Flexible 30		0.0952	0.0952	60	1
		Flexible 50		0.0833	0.0833	60	1
		Business flexible 9		0.1309	0.1309	60	1
		Business flexible 15		0.1190	0.1190	60	1
		Business flexible 20		0.1071	0.1071	60	1
		Business flexible 25		0.0952	0.0952	60	1
		Business flexible 50		0.0833	0.0833	60	1
		Pre-pay Standard		0.1904	0.1904	60	1
		Pre-pay Unic		0.1904	0.1904	60	1
		Pre-pay Favourite Numbers		0.1904	0.1904	60	1
		Pre-pay Favourite Hours		0.1904	0.1904	60	1
		Pre-pay Music		0.1904	0.1904	60	1
	Vodafone	Vodafone Favourite Hours		0.1428	0.1428	60	1
		Vodafone 50		0.1666	0.1666	60	1
		Vodafone 75		0.1547	0.1547	60	1
		Vodafone 100		0.1428	0.1428	60	1
		Vodafone 150		0.1309	0.1309	60	1
		Vodafone 200		0.1309	0.1309	60	1
		Vodafone 400		0.1309	0.1309	60	1
		Vodafone 700		0.1190	0.1190	60	1
		Vodafone 1000		0.1190	0.1190	60	1
		Vodafone Gold 12		0.1309	0.1309	60	1
		Vodafone Gold 20		0.1309	0.1309	60	1
		Vodafone Gold 27		0.1309	0.1309	60	1
		Vodafone Gold 40		0.1071	0.1071	60	1
		Vodafone Gold 60		0.1071	0.1071	60	1
		Vodafone Gold 100		0.1071	0.1071	60	1
		Vodafone Gold 150		0.1071	0.1071	60	1
		Vodafone Gold 200		0.0952	0.0952	60	1
		Vodafone Gold 275		0.0952	0.0952	60	1
		Vodafone Gold 350		0.0952	0.0952	60	1
		Vodafone Simplu		0.1309	0.1309	60	1
		Pre-pay Favourite Hours		0.2380	0.2380	60	1
		Pre-pay Favourite Numbers		0.2380	0.2380	60	1
		Pre-pay My network		0.1785	0.1785	60	1
		Pre-pay Favourite Hours		0.2142	0.2142	60	1

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds Init. Period	Seconds Additional
Slovak Republic	Orange	Pausal 25 + SMS	0.3117	0.0776		0	1
		Pausal 25 + SMS uni	0.3117	0.0854		0	1
		Pausal 30 maxi	0.3117	0.1049		0	1
		Pausal 50 + SMS	0.3117	0.1556		0	1
		Pausal 60	0.1144	0.1556		0	1
		Pausal 60 uni	0.1144	0.1556		0	1
		Pausal 80 my	0.3117	0.1752		0	1
		Pausal 90 + SMS	0.3117	0.2165		0	1
		Pausal 120	0.2619	0.0776		0	1
		Pausal 250	0.2619	0.1244		0	1
		VIP 500	0.2619	0.8968		0	1
		VIP 1000	0.2619	1.2479		0	1
		Paušál Kontakt 30	0.1144	0.0879		0	1
		Paušál Kontakt 70	0.1144	0.1570		0	1
		Paušál Kontakt 100	0.1144	0.1867		0	1
		Paušál Klasik 70	0.1144	0.1768		0	1
		Paušál Klasik 100	0.1144	0.2163		0	1
		Paušál Klasik 150	0.1144	0.3150		0	1
		Paušál Komfort 300	0.1144	0.5916		0	1
		Paušál Komfort 600	0.1144	0.9372		0	1
		Pausal SMS 500	0.3117	0.1560		0	1
		Pausal SMS 2000	0.3117	0.5852		0	1
		Pausal 199 Sk	0.3117	0.0776		0	1
		Pausal 299 Sk	0.3117	0.1166		0	1
		Pausal 399 Sk	0.3117	0.1556		0	1
		Pausal 499 Sk	0.3117	0.1947		0	1
		Pausal 999 Sk	0.3117	0.3897		0	1
	T-Mobile	Relax 60		0.1439		0	1
		Relax 100		0.2334		0	1
		Relax 200		0.3894		0	1
		20+20Viac		0.0774		0	1
		55Viac		0.1554		0	1
	100Viac		0.2609		0	1	
	200Viac		0.4675		0	1	
	400Viac		0.8576		0	1	
	1000Viac		1.3257		0	1	
	250 SMS Viac		0.1124		0	1	
	Vo veľkom 100		0.1964		0	1	
	Vo veľkom 150		0.1964		0	1	
	Vo veľkom 200		0.3603		0	1	
	Vo veľkom 300		0.3603		0	1	

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds Init. Period	Seconds Additional	
Slovenia	Mobitel	Basic		0.1794	0.0876	60	1	
		Uniform		0.1335	0.1335	60	1	
		Povezani 11		0.1800	0.1800	60	1	
		Povezani 33		0.1700	0.1400	60	1	
		Povezani 44		0.1700	0.1200	60	1	
		Povezani 55		0.1600	0.1000	60	1	
		Povezani 77		0.1600	0.0900	60	1	
		Itak Package		0.2170	0.0876	60	1	
		Family bonus Package		0.2295	0.1022	60	1	
		Pension Plus Package		0.1461	0.0876	60	1	
		Prepaid package - Mobi calls		0.1836	0.1836	60	1	
		Si.mobil	Smart I		0.2503	0.0200	60	1
			Smart II		0.2087	0.0200	60	1
			Smart III		0.0700	0.0200	60	1
		Orto U Nulo		0.1000	0.0500	60	1	
		Smart 20		0.2000	0.0500	60	1	
		Business smart		0.0918	0.0200	60	1	
		Halo prepaid system		0.2921	0.1252	60	1	

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds Init. Period	Seconds Additional	
Spain	Movistar	Contrato Movistar	0.1740			0	1	
		Mi Gente	0.1740			0	1	
		Tiempo Libre	0.1740			0	1	
		Unico 24 horas	0.1740			0	1	
		Contrato Movistar	0.1740			0	1	
		Mi Gente	0.1740			0	1	
		Tiempo Libre	0.1740			0	1	
		Unico 24 horas	0.1740			0	1	
		Contrato Empresas Tarifa Unica	0.1740			0	1	
		Contrato Empresas Tarifa Unica	0.1740			0	1	
		Contrato Empresas Tramos Horarios	0.1740			0	1	
		Contrato Empresas Tramos Horarios	0.1740			0	1	
		Contrato Empresas 30	0.1740			0	1	
		Contrato Empresas 60	0.1740			0	1	
		Contrato Empresas 90	0.1740			0	1	
		Club Autonomos	0.1740			0	1	
		Autonomos 15	0.1740			0	1	
		Autonomos 30	0.1740			0	1	
		Autonomos 60	0.1740			0	1	
		Autonomos 90	0.1740			0	1	
		Autonomos Movistar y Fijos				0	1	
		Tarjeta Mas	0.1740			0	1	
		Tarjeta Movistar	0.1740			0	1	
		Tarjeta Mi Gente	0.1740			0	1	
		Tarjeta Tiempo Libre	0.1740			0	1	
		Tarjeta Unico 24 horas	0.1740			0	1	
		Tarjeta Mas	0.1740			0	1	
		Tarjeta Movistar	0.1740			0	1	
		Tarjeta Mi Gente	0.1740			0	1	
		Tarjeta Tiempo Libre	0.1740			0	1	
		Tarjeta Unico 24 horas	0.1740			0	1	
		Vodafone	Plan 15	0.1740			0	1
			Plan 25 Mas Empresas	0.1740			0	1
			Plan 40 Mas Empresas	0.1740			0	1
			Plan 60 Mas Empresas	0.1740			0	1
			Plan 80 Mas Empresas	0.1740			0	1
			Planes Relax 25	0.1740			0	1
			Planes Relax 50	0.1740			0	1
			Planes Relax 100	0.1740			0	1
			Planes Relax 159	0.1740			0	1
			Planes Relax 25	0.1740			0	1
			Planes Relax 50	0.1740			0	1
			Planes Relax 100	0.1740			0	1
			Planes Relax 159	0.1740			0	1
			Contrato Tarde	0.1740			0	1
			Contrato Mañana	0.1740			0	1
			Contrato Vitamina 60x1 24H	0.3944			0	60
	Contrato Vitamina 60x1 All	0.3944			0	60		
	Nuevo Contrato 1	0.1740			0	1		
	Vitamina Clasica	0.1392			0	1		
	Tarjeta Vitamina 60x1 24H	0.5800			0	60		
	Tarjeta Vitamina 60x1 All	0.5800			0	60		
	Tarjeta Vitamina Clasica	0.1392			0	1		
	Tarjeta 1	0.1740			0	1		

Prices in euro, including VAT			Call set-up	Minimum Charge to PSTN	Minimum Charge to on-net mobile	Seconds Init. Period	Seconds Additional	
Sweden	Telia	Telia Mobil Bingo 0 months	0.0799			0	60	
		Telia Mobil Bingo 12 months	0.0799			0	60	
		Telia Mobil Bingo 18 months	0.0799			0	60	
		Telia Mobil Fastpris Privat	0.0698			0	10	
		Telia Mobil till vänner	0.0698			0	10	
		Telia Mobil 99	0.0799			0	10	
		Telia Mobil 199	0.0799			0	10	
		Telia Mobil 299	0.0799			0	10	
		Telia Jobbmobil Rörlig	0.0822			0	10	
		Telia Jobbmobil Fastpris				0	10	
		Refill Kväll och helg	0.0597			0	1	
		Refill Flexibel 100	0.0698			0	60	
		Refill Flexibel 150	0.0698			0	60	
		Tele 2 Comviq	Comviq Kompis	0.0698			0	60
			Snackis	0.0698			0	60
			Fastpris				0	60
			Tele2 Smart Företag	0.0695			0	10
			Tele2 Jobbkompis	0.0695			0	10
			Tele2 Knock-Out	0.0695			0	10
			Tele2 Fastpris	0.0695			0	10
	Comviq Kontant Standard		0.0698			0	60	
	Kontant Kompis		0.0698			0	60	
	Kontant Knock-out		0.0698			0	60	
	Kontant Amigos	0.0698			0	60		
	Kontant Champion	0.1001			0	60		
	UK	O2	Pay Monthly 75				0	1
			Pay Monthly 200				0	1
			Pay Monthly 400				0	1
			Pay Monthly 600 + Text Freedom				0	1
			Pay Monthly 1200 + Text Freedom				0	1
Pay Monthly 3000 + Text Freedom						0	1	
Small Business, Regular						0	1	
Small Business, Frequent						0	1	
Pay & Go Talkalot				0.0635	0.0635	0	1	
Pay & Go Talkalot				0.0635	0.0635	0	1	
Pay & Go Talkalot				0.0635	0.0635	0	1	
Pay & Go Talkalot				0.0635	0.0635	0	1	
Pay & Go O2 Unlimited				0.0635	0.0635	0	1	
Pay & Go Text Anytime				0.0635	0.0635	0	1	
Pay & Go Talkalotmore				0.0635	0.0635	0	1	
Pay & Go Talkalotmore				0.0635	0.0635	0	1	
Pay & Go Talkalotmore				0.0635	0.0635	0	1	
Pay & Go Talkalotmore				0.0635	0.0635	0	1	
T-Mobile			Flext 30		0.0635	0.0635	0	1
			Flext 35		0.0635	0.0635	0	1
		Flext 40		0.0635	0.0635	0	1	
		Flext 50		0.0635	0.0635	0	1	
		Flext 75		0.0635	0.0635	0	1	
		Combi 15		0.0635	0.0635	0	1	
		Combi 20		0.0635	0.0635	0	1	
		Combi 25		0.0635	0.0635	0	1	
		Combi 30		0.0635	0.0635	0	1	
		Combi 35		0.0635	0.0635	0	1	
		Combi 40		0.0635	0.0635	0	1	
		Solo 15		0.0635	0.0635	0	1	
		Solo 20		0.0635	0.0635	0	1	
		Solo 25		0.0635	0.0635	0	1	
		Solo 30		0.0635	0.0635	0	1	
		Solo 35		0.0635	0.0635	0	1	
		U-Fix 25 Talk		0.0635	0.0635	0	1	
		U-Fix 25 off-peak		0.0635	0.0635	0	1	
		U-Fix Text 20		0.0635	0.0635	0	1	
		U-Fix 35		0.0635	0.0635	0	1	
Pay As You Go Everyone			0.0635	0.0635	0	1		
Pay As You Go Mates Rates			0.0635	0.0635	0	1		
Pay As You Go Text Appeal		0.0635	0.0635	0	1			

Notes to table on preceding pages:

There may be other packages than those shown in this table.

The minimum charge will most often result from the price of the initial period (e.g. first minute), and will then be different for each package, even though it is not specified as a minimum charge.

Where call set-up charges are used the actual minimum charge will comprise of the call set-up charge.

The call is assumed to be of zero length, and the call charges are not included in this presentation.

8. National leased lines

National leased line data is provided from 1998 onwards. 3 distances are covered: 2 km (local circuits), 50 km and 200 km. Tariffs are taken from the ex-incumbent operator in each country. Other operators may offer other prices.

In order to properly reflect the tariff structures used in some countries the circuits may be considered in one of two different ways, depending on tariff structure. The one to apply will differ from carrier to carrier. The principles used in this report for calculating the price of a full circuit are:

	1: When tariff specifies local tail prices separately, in addition to main circuit.		2: When tariff specifies a single price for the circuit, end to end, including local tails.	
	Local tail length	Main circuit length	Local tail length	Main circuit length
2 km circuit	1 km	0	0	2 km
50 km circuit	2 km	46 km	0	50 km
200 km circuit	2 km	196 km	0	200 km

Note: The local tail length is per tail, i.e. there will be 2 such tails with each circuit.

Where several tariff options exist depending on type of location, the criteria for choice is as follows:

- ◆ 2 km circuits are always within a major city (usually the Capital)
- ◆ 50 and 200 km circuits are between a major city and a “minor” city

As the definitions vary between countries, the type of tariff option chosen will also vary. More specific information is covered under each country section. The countries where the price may vary with location or other non-distance related definitions, are: Belgium, France, Austria, Finland, Sweden and the UK.

Some operators apply termination charges per local end, without necessarily covering the local tail circuit within that charge. Different types of terminating equipment or interfaces may also impact on the prices. Only the most basic type is covered in this overview.

Two types of circuits are covered: 2 Mb/s and 34 Mb/s. As not all carriers publish tariffs for all these bitrates and all years, there may be some gaps in the information, especially for higher bitrates.

Some carriers offer 2 Mb/s circuits as both structured and unstructured. In this analysis only unstructured circuits are included.

Also, some carriers offer different types of leased lines, often in the form of “basic circuits” and circuits in a managed network. Only “basic circuits” are included in this analysis, as the managed network services are not comparable between carriers.

Lately a few carriers have decided not to publish their prices for some or all types of leased lines. This makes it increasingly difficult to present a full overview of the prices in all 27 EU countries.

For the USA the prices of Verizon intra-LATA circuits for New York state have been used. The bitrates of leased lines offered in some countries may be different from the ones found in most EU member States. Some operators may offer 1.5 Mb/s instead of 2 Mb/s and 45 or 50 Mb/s instead of 34 Mb/s. *Prices shown in the tables and graphs in this section of the report have been adjusted according to the difference in capacity*

Installation charges are not included in the current analysis. Please note that the level of the installation charges can be high in relation to the rental charge, and can alter the overall cost significantly, especially for short duration contracts.

Issues relating to individual data points are commented under each section. Specific comments to tariff structure refer to the 2008 data. Structures for earlier years may be different, but care has been taken to make sure prices are based on comparable circuit definitions.

All prices are presented in EURO per month, excluding VAT.

8.1. Price structure details for national leased lines

8.1.1. Belgium

Belgacom has divided their network into 4 levels based on “economic concentration”. The tariffs shown are for circuits within or between level 1 areas with “Very high economic concentration”.

Local circuits within an exchange area are priced as a regular circuit of the given distance.

Belgium	Tariff definition used in this analysis (for 2008 data)
2 km circuit	within same level 1 area.
50 km circuit	between 2 different level 1 areas.
200 km circuit	between 2 different level 1 areas.

8.1.2. Bulgaria

BTC divide the leased line tariff into Local and Long Distance circuits, where the Long Distance part is again divided into 6 distance dependant ranges: Up to 30 km, 30 – 50 km, 50 – 100 km, 100 – 150 km, 150 – 200 km, and over 200 km.

Bulgaria	Tariff definition used in this analysis (for 2008 data)
2 km circuit	Local circuit
50 km circuit	30 to 50 km
200 km circuit	150 to 200 km

8.1.3. Czech Republic

Telefonica O2 defines prices for all bitrates based on the price of a 64 kb/s circuit. Coefficients are given for each bitrate available (up to 2 Mb/s), and the price is the product of the 64 kb/s price and the coefficient.

Local circuits are defined as a 0 km circuit. 10 distance zones are defined for circuits with more than 0 km between serving exchanges. There are no incremental charges (i.e. no charge per km).

Czech Rep.	Tariff definition used in this analysis (for 2008 data)
2 km circuit	0 km
50 km circuit	40 to 60 km
200 km circuit	170 to 210 km

8.1.4. Denmark

TDC divides the leased lines into two categories:

- Local circuits, based on distance bands and whether the two ends are connected to the same exchange or neighbouring exchanges.
- Long distance circuits connected to different exchanges, divided into 4 distance bands

There are no incremental charges (e.g. no charge per km).

Denmark	Tariff definition used in this analysis (for 2008 data)
2 km circuit	Local circuit at same exchange, >1000m.
50 km circuit	30-75 km
200 km circuit	Over 75 km

8.1.5. Germany

Deutsche Telekom offers different types of circuits. In this analysis the “Standard Festverbindungen” are used.

Tariffs are divided into:

- Local 1 (same exchange)
- Local 2, up to or above 15 km
- Long Distance, < 15km, 15 – 50 km, 50 – 150 km, > 150 km.

Local 2 and Long distance use incremental (per km) charges.

At 34Mb/s access circuit charges apply, with a distance (per km) element.

Germany	Tariff definition used in this analysis (for 2008 data)
2 km circuit	Local 1 circuit
50 km circuit	Long distance circuit, 15 – 50 km
200 km circuit	Long distance circuit, > 150 km

8.1.6. Estonia

Elion divides the leased lines into distance bands of 0 – 6 km, 6 – 10 km, 10 – 20 km, >20 km)

Trunk circuits above 20 km use incremental (per km) charges.

Local circuits are priced as a regular circuit of the given length.

Estonia	Tariff definition used in this analysis (for 2008 data)
2 km circuit	< 6 km
50 km circuit	> 20 km
200 km circuit	> 20 km

8.1.7. Greece

OTE divides the leased lines into:

- Local circuits
- Trunk circuits (< 35 km, 35 – 70 km, 70 – 150 km, > 150 km)

Trunk circuits use incremental (per km) charges.

Greece	Tariff definition used in this analysis (for 2008 data)
2 km circuit	Local circuit
50 km circuit	Trunk circuit 35 – 70 km
200 km circuit	Trunk circuit > 150 km

8.1.8. Spain

Telefonica strictly divides leased lines according to distance:

- Distance bands: 0 – 4 km, 4 – 20 km, 20 – 70 km, 70 – 300 km, 300 – 500 km, > 500 km.

All bands use incremental (per km) charges.

Local circuits within an exchange area are priced as a regular circuit of the given distance.

Spain	Tariff definition used in this analysis (for 2008 data)
2 km circuit	0 – 4 km band
50 km circuit	20 – 70 km band
200 km circuit	70 – 300 km band

8.1.9. France

France Telecom still offers leased lines in the products Transfix and Transfix 2.0. However, SDSL substitution is very advanced and leased lines closure is planned for 2010.

Transfix is the basic service, and the one used in this analysis.

The tariff is divided into distance bands: 0 – 10 km, 10 – 50 km, 50 – 300 km, > 300 km. 34 and 155 Mb/s divide at 30 km and 100 km instead of 50 km.

Prices for 2 Mb/s relate to 2,048 kb/s bitrate. 1,920 and 1,984 have different prices.

Prices for 34 Mb/s circuits relate to circuits with one end in a major city (zone A), as defined by France Telecom.

Local circuits within an exchange area are priced as a circuit of the given distance. Additional definitions apply for higher speed circuits.

France	Tariff definition used in this analysis (for 2008 data)
2 km circuit	0 – 10 km
50 km circuit	2 Mb/s: 10 – 50 km, 34 Mb/s: 30 – 100 km
200 km circuit	2 Mb/s: 50 - 300 km, 34 Mb/s: 100 – 300 km

SDSL services which are provided with a distinctive quality of service provide now the reference in France for dedicated bandwidth and quality of service guarantees. France Telecom also offers SDSL bitstream services to the operators, with the same guarantees of quality of service.

8.1.10. Ireland

Eircom defines the tariff for leased lines with a local end charge, and main link charges for circuits 0 – 30 km and > 30 km.

Local circuits may be made up by 2 local ends, and no main link. Circuits equal to or above 1 Mb/s have a distance incremental charge for local ends over 1.5 km.

Ireland	Tariff definition used in this analysis (for 2008 data)
2 km circuit	2 local ends, no main link
50 km circuit	2 local ends, 46 km main link
200 km circuit	2 local ends, 196 km main link

8.1.11. Italy

All circuits have an access charge per end, and a main link distance related charge per km. Distance bands are 0 – 60 km, 60 – 300 km, and > 300 km..

Circuits from 2 Mb/s and above are available with various levels of reduced charges depending on contract period and overall spend. The most basic level is used in this analysis.

Local circuits within an exchange area are priced as two access circuits only.

Italy	Tariff definition used in this analysis (for 2008 data)
2 km circuit	Local circuit, 2 ends
50 km circuit	0 – 60 km band, 2 ends, 46 km main link
200 km circuit	60 – 300 km band, 2 ends, 196 km main link

8.1.12. Cyprus

CYTA divides the leased lines into:

- Subscriber segment, for access.
- Network segment, between exchanges, at distance bands of 0 – 20 km, 20 – 80 km, > 80 km.

Local circuits within an exchange area are priced as two subscriber segments.

Cyprus	Tariff definition used in this analysis (for 2008 data)
2 km circuit	2 subscriber segments + 0 – 20 km
50 km circuit	2 subscriber segments + 20 – 80 km
200 km circuit	2 subscriber segments + > 80 km

8.1.13. Latvia

Lattelekom circuits have the same price regardless of distance. Prices are only provided for circuits up to 2 Mb/s.

Latvia	Tariff definition used in this analysis (for 2008 data)
2 km circuit	
50 km circuit	
200 km circuit	

8.1.14. Lithuania

Lietuvos Telekomas distinguish between circuits inside the local exchange area, and those beyond the local exchange area.

Lithuania	Tariff definition used in this analysis (for 2008 data)
2 km circuit	Same local area
50 km circuit	Beyond local area
200 km circuit	Beyond local area

8.1.15. Luxembourg

P&T Luxembourg divide the leased lines tariff into 4 types of circuits: Same local network, Contiguous local network of same nodal sector, Same nodal sector or Contiguous local networks of different nodal sectors, and Non-contiguous local networks of different nodal sectors. This definition relates to the network hierarchy, and not to distance. Distances at 200 km are not possible.

Local circuits within an exchange area are priced as a circuit in the same local network.

Luxembourg	Tariff definition used in this analysis (for 2008 data)
2 km circuit	Same local network
50 km circuit	Non-contiguous local networks of different nodal sectors
200 km circuit	Not possible

8.1.16. Hungary

Matav applies an access circuit charge for each end of the circuit, and a fixed basic charge and a per km charge for the trunk part.

However, Matav do not publish prices for national circuits, so prices have not been updated in later years.

Hungary	Tariff definition used in this analysis (for 2008 data)
2 km circuit	2 x access
50 km circuit	2 x access + basic charge + 46 x per km charge
200 km circuit	2 x access + basic charge + 196 x per km charge

8.1.17. Malta

Maltacom has a flat charge regardless of distance, only dependent of bitrate.

Malta	Tariff definition used in this analysis (for 2008 data)
2 km circuit	Circuit charge
50 km circuit	Circuit charge
200 km circuit	Not applicable

8.1.18. Netherlands

KPN Telecom offer leased lines under the DigiStream service. Tariffs are divided into a charge per connecting point and a main link charge. The main link charge is divided into two zones: Up to 50 km with a fixed basic charge and an incremental per km charge, and over 50 km with a fixed basic charge. Prices are in effect capped above 50 km. Local circuits within an exchange area are priced as two access connections plus a short main link of the given distance. OPTA (Dutch regulator) has found that the market for 2 Mb/s circuits is competitive, meaning that prices indicated by KPN are maximum prices, and will normally be used as a basis for negotiating a (lower) price.

Netherlands	Tariff definition used in this analysis (for 2008 data)
2 km circuit	2 connecting points + 2 km main link (0 – 50 km band)
50 km circuit	2 connecting points + 50 km main link (0 – 50 km band)
200 km circuit	2 connecting points + 200 km main link (>50 km band)

8.1.19. Austria

Telecom Austria divides the “Digitaler Stromweg” circuits into 2 categories: City-tarif when both ends of the circuit are in category A cities (a defined list of 68 towns and cities), and Normal-tarif when the above does not apply. This analysis used the City-Tarif. The Normal-tarif would in most cases come out more expensive. For the years up to 2000 a different tariff scheme applied, with a different list of towns, and 3 instead of 2 categories.

The tariff is based on a charge per local end, and a distance related charge per km. The distance bands vary with bitrate. Local circuits within an exchange area are priced as two access circuits only.

Austria	Tariff definition used in this analysis (for 2008 data)
2 km circuit	2 local ends
50 km circuit	2 local ends, plus 46 km main link
200 km circuit	2 local ends, plus 196 km main link

8.1.20. Poland

Polish Telecom have no recurring charges related to the access. A basic charge plus a per km charge is applied for the full length of the circuit. Distance bands are divided into 0 – 3 km, 3 – 20 km, 20 – 30 km, 30 – 50 km, 50 – 100 km, 100 – 200 km, over 200 km.

Poland	Tariff definition used in this analysis (for 2008 data)
2 km circuit	0 – 3 km
50 km circuit	30 – 50 km
200 km circuit	100 – 200 km

8.1.21. Portugal

Portugal Telecom divides the leased line tariff into local access circuit charge, and a main link with a fixed and an incremental charge per km.

Distance bands are 0 – 10 km, 10 – 30 km, 30 – 50 km, 50 – 100 km, over 100 km. Local circuits connected to the same exchange will not incur main link charges.

Local circuits within an exchange area are priced as two access circuits only.

Portugal	Tariff definition used in this analysis (for 2008 data)
2 km circuit	2 access circuits
50 km circuit	2 access circuits, and main link (30 – 60 km band)
200 km circuit	2 access circuits, and main link (>100 km band)

8.1.22. Romania

RomTelecom divides the leased line tariff strictly by distance, in the following bands: 0 – 50 km, 50 – 100 km, 100 – 150 km, and over 150 km.

Incremental charges per km are used in all bands. A charge per end of the circuit is also applied.

Prices are also subject to negotiated discounts.

Romania	Tariff definition used in this analysis (for 2008 data)
2 km circuit	0 – 50 km
50 km circuit	0 – 50 km
200 km circuit	Over 150 km

8.1.23. Slovak Republic

Slovak Telecom defines the leased line tariff in two parts: Local Access and Intercity. The Intercity part is divided into 3 distance bands: 0 – 50 km, 50 – 100 km and over 100 km. Prices are given for the 64 kb/s bitrate. Other bitrates between 9.6 kb/s and 2048 kb/s are calculated based on the 64 kb/s price using a multiplication factor. This factor is different for Local Access and Intercity circuit parts. For example 2048 kb/s has a factor of 4.4 for the Local Access and 5.6 for the Intercity part.

Slovak Rep.	Tariff definition used in this analysis (for 2008 data)
2 km circuit	2 x Local Access
50 km circuit	2 x Local Access + 0 – 50 km Intercity
200 km circuit	2 x Local Access + >100 km Intercity

8.1.24. Slovenia

Telekom Slovenije divides the leased line tariffs into 3 distance bands: 0 – 5 km, 5 – 50 km and over 50 km. Each of these bands have a basic price and an incremental price per 0.1 km for the 0-5 km band, and per 1 km for the other bands. Distance is calculated between customer sites,

Slovenia	Tariff definition used in this analysis (for 2008 data)
2 km circuit	0 – 5 km with 19 increments of 0.1 km
50 km circuit	5 – 50 km with 45 increments of 1 km
200 km circuit	>50 km with 150 increments of 1 km

8.1.25. Finland

Sonera stopped publishing full 64 kb/s circuit prices already in 1998, and have also stopped publishing 2 Mb/s circuit prices.

Local circuit charges were divided into 3 categories: Urban area, Rural areas I and II. Definitions of these areas relate to individual locations in the Sonera coverage area.

Long distance (main link) charges were also divided into 3 categories: Green, Red and Blue. Green covers the main 5 cities, red a further 28 towns, and Blue the rest of the countries. Distance bands are 0 – 50 km, 50 – 100 km, and > 100 km. Incremental charges per km applied.

Finland	Tariff definition used in this analysis (for 2000 data)
2 km circuit	Rural area II charge (highest)
50 km circuit	2 Access circuits + Main link at Green 0- 50 km band (highest)
200 km circuit	2 Access circuits + Main link at Green > 100 km band (highest)

8.1.26. Sweden

Telia divided their network into 5 categories: Metropolitan green and green for the major cities and towns, red and blue for short distance network in smaller places, and white for rural areas. Circuits were priced according to the portion of the circuit falling into any of these categories on its route. Here the green tariff is assumed, for a circuit between reasonably large towns. The tariff was divided into local circuits and long distance. Long distance circuits had a separate access link charge per end, and a main link charge. Local circuits were priced in 2 distance bands: 0 – 0.5 km and 0.5 - 3 km. Long distance circuits were priced in the bands 0 – 20 km, 20 – 40 km, and > 40 km. The latter had an incremental per km charge. The current pricelist from Telia still refers to prices as of 1 April 2000.

Sweden	Tariff definition used in this analysis (for 2008 data)
2 km circuit	Short local circuit, 0.5 – 3 km
50 km circuit	2 access circuits + main link at >40 km band
200 km circuit	2 access circuits + main link at >40 km band

8.1.27. United Kingdom

BT divides their Kilostream (64 kb/s) and Megastream (2, 34 and 155 Mb/s) tariffs into circuits wholly within City London Zone (0207-area), and circuits with one or both ends outside London.

For local circuits within CLZ the main link does not apply since both ends are connected to the same exchange (according to the definition used). The price is calculated as the sum of two local access circuits.

Distance bands outside London are < 15 km and > 15 km. Incremental charges per km applies.

UK	Tariff definition used in this analysis (for 2008 data)
2 km circuit	Central London Zone
50 km circuit	Out of London zone, > 15 km
200 km circuit	Out of London zone, > 15 km

8.1.28. USA

Verizon, New York

Verizon provides leased line services within New York State. The tariff is divided into New York City LATA and other LATA parts. All prices assumed here are for Intra-LATA circuits in New York City LATA. Long distance (i.e. inter-LATA or inter-state) circuits provided by operators like AT&T may have different prices for the same distances, and are often priced on a city pair basis.

Due to different network systems the 1.5 Mb/s circuits are substituting for 2 Mb/s and 45 Mb/s for 34 Mb/s. Prices are adjusted for the difference in capacity, to reflect “European” bitrates. Tariffs will generally have a fixed charge for the local tail circuit, at higher speeds this may have a per mile charge as well, and a main link charge with a basic and incremental per mile charge.

USA (NY)	Tariff definition used in this analysis (for 2008 data)
2 km circuit	2 local tail circuits, 1 km each (rounded to nearest ¼ mile)
50 km circuit	2 local tail circuits + main link of 46 km (rounded to nearest mile)
200 km circuit	2 local tail circuits + main link of 196 km (rounded to nearest mile)

8.1.29. Japan

NTT divides the tariff into a termination charge and a circuit charge. The circuit charge is divided into distance bands: 0 – 15 km, 15 – 30 km, 30 – 40 km, 40 – 50 km, 50 – 60 km, 60 – 70 km, 70 – 80 km, 80 – 90 km, and over 90 km. Prices are effectively capped at 100 km.

Local circuits within an exchange area are priced as one regular circuit in the shortest distance band.

Japan	Tariff definition used in this analysis (for 2008 data)
2 km circuit	2 termination charges and 0 – 15 km band
50 km circuit	2 termination charges and 40 – 50 km band
200 km circuit	2 termination charges and >90 km band

8.2. Prices for national leased lines

The following tables give a price summary for national leased lines from 1998 till today.

Table 8.1 Monthly charge for national leased lines 2 Mb/s – 2 km

<i>National 2 Mb/s circuits, 2 km</i>											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	716	663	663	521	547	547	547	547	547	547	547
Bulgaria						368	368	368	368	368	368
Czech				2,316	2,736	1,491	1,491	1,491	1,491	705	774
Denmark	243	243	163	163	163	163	333	333	179	179	217
Germany	639	486	350	340	340	340	340	340	340	340	340
Estonia			388	388	388	388	307	830	836	876	876
Greece	1,535	822	822	822	822	560	244	603	695	872	778
Spain	1,304	1,239	1,239	885	850	816	687	687	687	388	687
France	739	739	739	638	625	625	625	625	625	625	625
Ireland	593	593	381	381	381	381	381	381	381	381	381
Italy	971	826	826	648	648	648	602	602	602	602	556
Cyprus			376	376	376	376	687	432	583	583	671
Latvia			521	521	521	521	521	521	521	521	521
Lithuania			515	515	515	377	377	286	377	438	438
Luxembourg	1,438	1,438	1,438	506	506	506	506	460	460	460	460
Hungary			1,289	1,289	1,037	1,037	675	675	675	675	675
Malta						575	575	1,056	1,056	1,056	531
Netherlands	1,343	1,343	1,343	1,114	1,114	1,160	1,157	1,110	1,110	1,143	1,162
Austria	981	981	602	581	300	300	300	300	300	300	300
Poland			753	753	753	753	753	753	753	753	753
Portugal	792	622	622	622	622	269	269	269	290	290	290
Romania							283	283	283	283	283
Slovakia			2,450	2,452	2,452	2,452	2,452	2,452	2,341	1,790	1,790
Slovenia			284	284	284	284	241	489	489	472	472
Finland	138	225	243								
Sweden	405	405	338	338	338	338	338	338	338	338	338
UK	282	311	311	311	402	402	402	402	402	402	421
USA	471	471	471	471	471	471	471	542	542	716	823
USA	262	262	262	347	347	347	347	347	347	347	347
Japan	4,005	4,005	4,005	3,407	3,407	3,407	3,407	1,623	1,623	1,623	1,623

Table 8.2 Monthly charge for national leased lines 2 Mb/s – 50 km

<i>National 2 Mb/s circuits, 50 km</i>											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	3,489	3,417	3,417	1,432	1,432	1,432	1,432	1,432	1,432	1,432	1,432
Bulgaria						2,172	2,172	2,172	2,172	2,172	2,172
Czech				4,136	3,832	3,335	3,335	3,335	3,335	1,008	1,008
Denmark	1,503	1,503	990	990	990	678	626	626	537	537	385
Germany	2,618	2,444	1,490	1,979	1,979	1,979	1,979	1,685	1,685	1,685	1,685
Estonia			1,177	1,177	1,177	1,177	928	2,227	2,257	2,257	2,044
Greece	4,150	3,108	3,108	2,698	2,728	1,473	540	918	1,179	1,509	1,320
Spain	4,304	4,089	4,089	2,944	2,806	2,666	1,900	1,900	1,900	1,478	1,900
France	2,073	2,073	2,073	1,896	1,944	1,944	1,944	1,944	1,944	1,944	1,944
Ireland	2,519	2,519	1,793	1,793	1,793	1,793	1,793	1,793	1,793	1,793	1,793
Italy	6,786	3,409	3,409	2,346	2,346	2,346	2,182	2,182	2,182	2,182	2,015
Cyprus			1,005	1,005	1,005	1,005	994	785	792	792	920
Latvia			521	521	521	521	521	521	521	521	680
Lithuania			3,054	3,054	3,054	1,573	1,573	1,573	1,573	1,508	1,508
Luxembourg	5,156	5,156	4,814	1,656	1,656	1,656	1,656	1,490	1,490	1,490	1,490
Hungary			2,456	2,456	1,739	1,739	2,065	2,065	2,065	2,065	2,065
Malta						575	575	1,056	1,056	1,056	531
Netherlands	2,904	2,904	2,904	2,791	2,791	1,880	1,699	1,350	1,350	1,391	1,410
Austria	1,817	1,817	1,187	932	760	760	760	760	760	760	760
Poland			2,839	2,839	2,839	2,839	2,839	2,839	2,839	2,839	2,839
Portugal	5,571	3,337	2,739	2,739	2,739	1,349	1,349	1,349	1,425	1,425	1,425
Romania							2,143	2,143	2,143	2,143	2,143
Slovakia			6,680	6,866	6,858	6,858	6,124	6,124	6,012	3,232	3,232
Slovenia			2,148	2,148	2,148	2,148	1,641	1,711	1,711	1,624	1,624
Finland	622	711	711								
Sweden	663	663	407	407	407	407	407	407	407	407	407
UK	1,614	1,565	1,565	1,565	1,466	1,466	1,466	1,466	1,466	1,466	1,534
USA	1,523	1,523	1,523	1,523	1,523	1,523	1,523	1,751	1,751	2,316	3,247
USA	1,151	1,151	1,151	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191
Japan	8,704	8,704	8,704	7,860	7,860	7,860	7,860	5,169	5,169	5,169	3,909

Table 8.3 Monthly charge for national leased lines 2 Mb/s – 200 km

<i>National 2 Mb/s circuits, 200 km</i>											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	5,352	4,573	4,573	2,577	2,577	2,577	2,004	2,004	2,004	2,004	2,004
Bulgaria						3,885	3,885	3,885	3,885	3,885	3,885
Czech				7,859	6,980	5,691	5,691	5,691	5,691	1,337	1,337
Denmark	2,460	2,460	1,359	1,359	1,359	834	767	767	537	537	385
Germany	3,748	3,594	2,197	2,504	2,504	2,504	2,504	1,925	1,925	1,925	1,925
Estonia			3,750	3,750	3,750	3,750	2,526	3,825	3,855	3,855	3,642
Greece	6,332	4,880	4,880	4,468	4,468	2,827	940	1,554	1,909	2,469	2,138
Spain	7,734	7,347	7,347	5,292	4,908	4,530	3,288	3,288	3,288	5,216	3,288
France	3,628	3,628	3,628	3,354	3,292	3,292	3,292	3,292	3,292	3,292	3,292
Ireland	3,959	3,959	2,945	2,945	2,945	2,945	2,945	2,945	2,945	2,945	2,945
Italy	10,484	6,091	6,091	4,549	4,548	4,548	4,095	4,095	4,095	4,095	3,782
Cyprus			629	1,005	1,005	1,005	1,404	1,241	1,358	1,358	1,489
Latvia			521	521	521	521	521	521	521	521	680
Lithuania			3,054	3,054	3,054	1,573	1,573	1,573	1,573	1,508	1,508
Luxembourg											
Hungary			6,103	6,103	3,934	3,934	4,808	4,808	4,808	4,808	4,808
Malta											
Netherlands	4,039	4,039	4,039	2,791	2,791	1,880	1,695	1,350	1,350	1,391	1,410
Austria	3,844	3,844	2,606	2,077	2,260	2,260	2,260	2,260	2,260	2,260	2,260
Poland			4,018	4,018	4,018	4,018	4,018	4,018	4,018	4,018	4,018
Portugal	9,338	5,126	4,235	4,235	4,235	2,389	2,389	2,389	2,936	2,936	2,936
Romania							3,146	3,146	3,146	4,240	4,240
Slovakia			7,990	7,442	7,409	7,409	7,409	7,409	7,258	3,491	3,491
Slovenia			4,529	4,529	4,529	4,529	2,969	3,003	3,003	2,756	2,756
Finland	1,631	1,050	1,050								
Sweden	1,169	1,169	685	685	685	685	685	685	685	685	685
UK	3,994	3,707	3,707	3,707	3,132	3,132	3,132	3,132	3,132	3,132	3,280
USA	4,473	4,473	4,473	4,473	4,473	4,473	4,473	5,144	5,144	6,804	10,391
USA	3,610	3,610	3,610	3,523	3,523	3,523	3,523	3,523	3,523	3,523	3,523
Japan	12,795	12,795	12,795	9,740	9,740	9,740	9,740	7,615	7,615	7,615	7,423

Table 8.4 Monthly charge for national leased lines 34 Mb/s – 2 km

<i>National 34 Mb/s circuits, 2 km</i>											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	1,517	1,441	1,441	1,611	1,692	1,692	1,692	1,692	1,692	1,692	1,692
Bulgaria											
Czech				11,292							
Denmark		743	676	676	676	879	976	976	1,056	1,056	1,056
Germany	3,579	3,579	1,620	1,050	1,500	1,500	1,500	1,579	1,579	1,005	1,005
Estonia			1,551	1,551	1,551	1,551	1,496	3,920	4,204	4,204	4,204
Greece						3,600	3,600	2,698	2,946	2,946	2,840
Spain	4,471	4,471	4,471	3,979	3,820	3,743	3,743	3,743	3,743	1,795	3,743
France	5,082	4,923	4,695	4,086	4,086	3,945	3,945	3,945	3,945	3,945	3,945
Ireland	3,665	3,665	3,090	3,090	3,090	3,090	3,090	3,090	3,090	3,090	3,090
Italy		5,929	5,929	4,132	4,132	4,132	3,884	3,884	3,884	3,884	3,270
Cyprus			752	752	752	752	3,251	2,284	2,917	2,917	3,355
Latvia											8,332
Lithuania							965	965	965	679	679
Luxembourg				2,829	2,829	2,829	2,829	2,550	2,550	2,550	2,550
Hungary							5,650				
Malta											
Netherlands											
Austria	3,634	3,634	2,219	2,180	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Poland											
Portugal						2,015	2,015	2,015	2,176	2,176	2,176
Romania											
Slovakia											
Slovenia							1,132	2,294	2,294	2,214	2,214
Finland											
Sweden	2,138	2,138	1,536	1,536	1,536						
UK	3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470
USA	3,133	2,677	2,677	2,677	2,677	2,677	2,677	2,677	2,677	2,663	2,677
USA	2,016	2,016	2,016	2,080	2,080	2,080	2,080	2,080	2,080	2,080	2,080
Japan				2,778	2,778	2,778	2,778	2,778	2,778	2,778	2,778

Table 8.5 Monthly charge for national leased lines 34 Mb/s – 50 km

<i>National 34 Mb/s circuits, 50 km</i>											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	19,859	22,360	22,360	7,976	7,976	7,976	7,976	7,976	7,976	7,976	7,976
Bulgaria											
Czech				18,199							
Denmark		5,933	5,394	5,394	5,394	5,347	4,640	4,640	4,958	4,958	4,958
Germany	21,945	16,960	11,905	5,575	6,711	6,711	6,711	4,646	4,646	4,646	4,646
Estonia			4,537	4,537	4,537	4,537	4,534	11,115	11,017	11,017	9,990
Greece						9,269	9,269	6,730	5,707	5,707	5,458
Spain	17,857	17,857	17,857	15,893	14,984	14,684	14,684	14,684	14,684	7,461	14,684
France	24,186	18,698	17,532	12,836	12,836	10,360	10,360	10,360	10,360	10,360	10,360
Ireland	25,275	25,275	18,431	18,431	18,431	18,431	18,431	18,431	18,431	18,431	18,431
Italy		18,882	18,882	15,297	15,297	15,297	13,709	13,709	13,709	13,709	11,964
Cyprus			2,009	2,009	2,009	2,009	4,878	4,051	3,996	3,996	4,593
Latvia											8,332
Lithuania							4,504	4,504	4,504	1,072	1,072
Luxembourg				5,211	5,211	5,211	5,211	4,690	4,690	4,690	4,690
Hungary							9,098				
Malta											
Netherlands											
Austria	10,320	10,320	9,240	5,690	4,950	4,950	4,950	4,950	4,950	4,950	4,950
Poland											
Portugal						10,115	10,115	10,115	10,688	10,688	10,688
Romania											
Slovakia											
Slovenia							7,710	8,039	8,039	7,627	7,627
Finland											
Sweden	3,389	3,389	2,430	2,430	2,430						
UK	12,914	10,366	10,366	10,366	10,366	10,366	10,366	10,366	10,366	10,366	10,366
USA	7,078	6,123	6,123	6,123	6,123	6,123	6,123	6,123	6,123	6,017	6,123
USA	3,645	3,645	3,645	3,625	3,625	3,625	3,625	3,625	3,625	3,625	3,625
Japan				14,870	14,870	14,870	14,870	14,870	14,870	14,870	14,870

Table 8.6 Monthly charge for national leased lines 34 Mb/s – 200 km

<i>National 34 Mb/s circuits, 200 km</i>											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Belgium	42,973	35,220	35,220	11,521	11,521	11,521	9,748	9,748	9,748	9,748	9,748
Bulgaria											
Czech				36,812							
Denmark		17,750	16,137	16,137	16,137	14,747	8,669	8,669	8,986	8,986	8,986
Germany	37,053	27,323	15,495	10,226	11,361	11,361	11,361	9,023	9,023	9,023	9,023
Estonia			14,272	14,272	14,272	14,272	12,241	18,822	18,724	18,724	17,696
Greece						14,229	14,229	11,295	9,165	9,165	8,488
Spain	32,099	32,099	32,099	28,568	26,463	25,933	25,933	22,746	22,746	26,199	21,643
France	38,341	34,705	33,919	26,785	26,785	19,310	19,310	19,310	19,310	19,310	19,310
Ireland	45,909	45,909	34,938	34,938	34,938	34,938	34,938	34,938	34,938	34,938	34,938
Italy		32,977	32,977	25,579	25,579	25,579	21,862	21,862	21,862	21,862	18,875
Cyprus			2,009	2,009	2,009	2,009	7,046	6,329	6,912	6,912	7,593
Latvia											8,332
Lithuania							5,276	5,276	5,276	2,145	2,145
Luxembourg											
Hungary							16,244				
Malta											
Netherlands											
Austria	26,540	26,540	24,806	17,136	16,200	16,200	16,200	16,200	16,200	16,200	16,200
Poland											
Portugal						17,915	17,915	17,915	22,020	22,020	22,020
Romania											
Slovakia											
Slovenia							13,830	13,989	13,989	12,835	12,835
Finland											
Sweden	6,423	6,423	4,858	4,858	4,858						
UK	31,954	21,791	21,791	21,791	21,791	21,791	21,791	21,791	21,791	21,791	21,791
USA	16,453	14,317	14,317	14,317	14,317	14,317	14,317	14,317	14,317	13,985	14,317
USA	7,324	7,324	7,324	7,113	7,113	7,113	7,113	7,113	7,113	7,113	7,113
Japan				23,040	23,040	34,478	34,478	34,478	34,478	34,478	34,478

Not all operators publish the prices of 34 Mb/s circuits

8.3. Price development for national leased lines

The development of national leased line prices over the last 11 years are shown in the graphs below. The graphs show the development of average prices since 1998.

Please note that some of the variations for the higher speed (figure 8.30) are a result of new countries being included in the average at different times.

Figure 8.29 Average price change for 2 Mb/s national leased lines in USA and the EU countries.

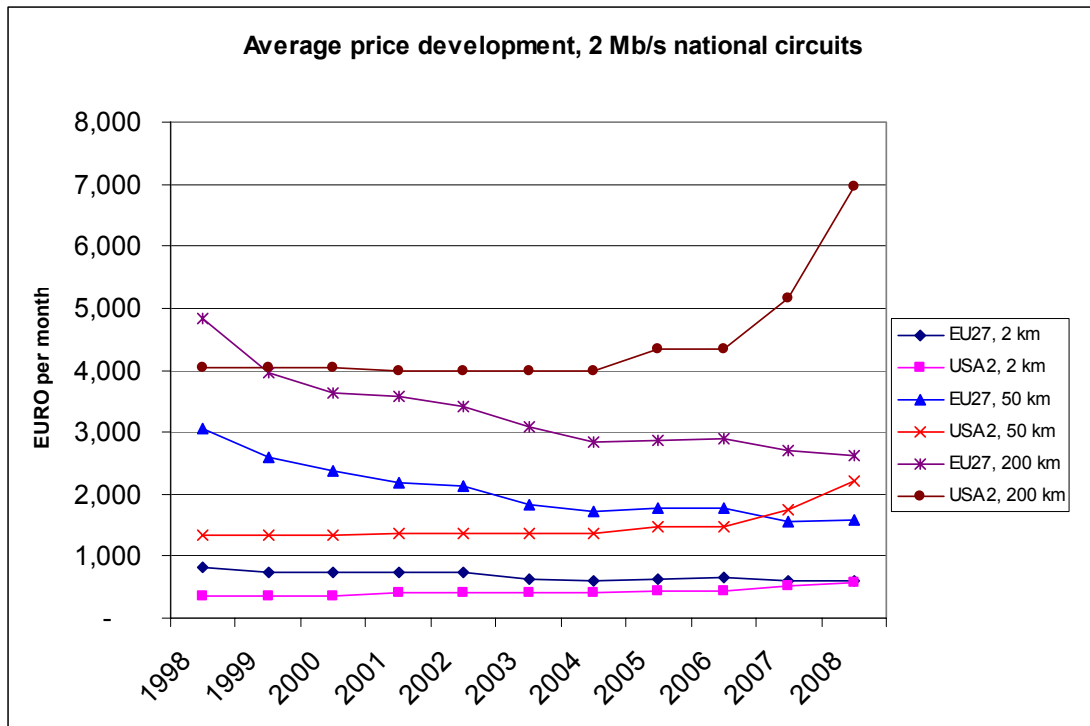
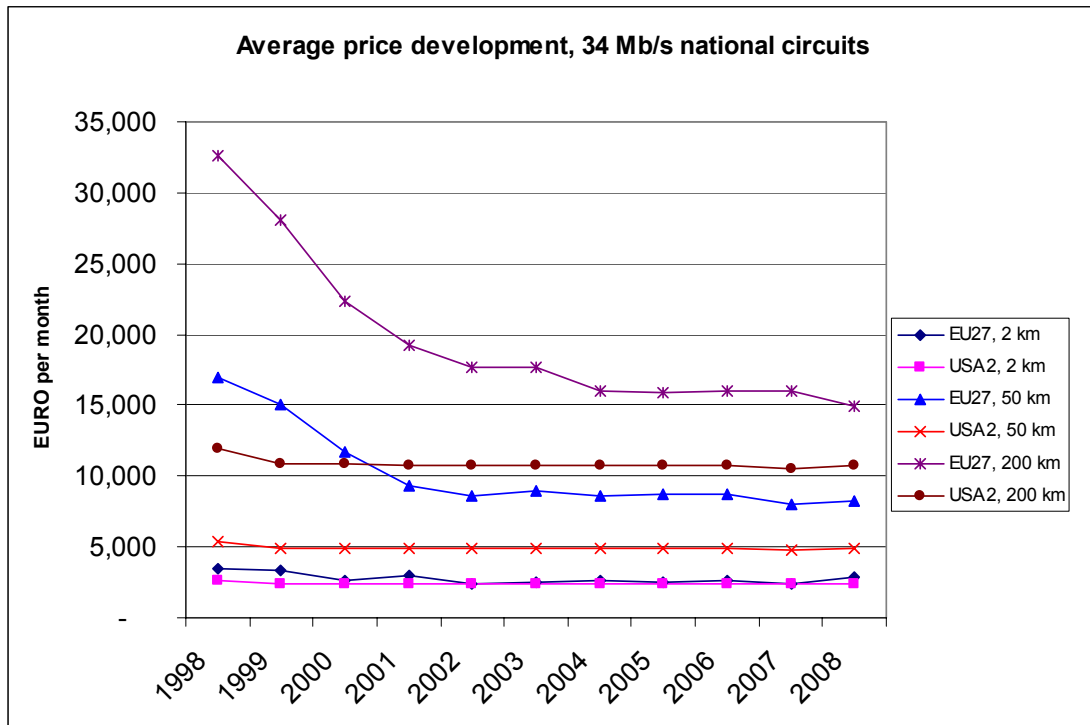


Figure 8.30 Average price change for 34 Mb/s national leased lines in USA and the EU countries.



All prices exclude VAT and tax in the respective countries.
 EU27 figures are simple, un-weighted averages across all EU countries where data is available for each year.
 USA2 figures are the averages between Verizon and PacBell
 Some of the variations are results of new countries being included in the averages.